



Fastener
PROFESSIONAL

2018-2019
Product Catalogue

Yes we can do...

Fastener International

For all kind of Building Materials & Machineries

<http://www.fastener-inter.com>

DESCRIPTION	PAGE
ABOUT US	4-5
CORDLESS TOOLS	6-17
CORDLESS DRILL / SCREWDRIVER	6
CORDLESS DRILL DRIVER / COMBI DRILL	9
CORDLESS ANGLE DRILL	12
CORDLESS IMPACT DRIVER / WRENCHES	13
CORDLESS TOOLS ACCESSORIES	15
DRILLING, CHISELING & CORING MACHINES	18-52
IMPACT DRILL MACHINE	19
2 SPEED IMPACT DRILL MACHINE	22
TAPPER MACHINE	26
DRYWALL SCREWDRIVER	27
ROTARY HAMMER MACHINE	28
ROTARY HAMMER / COMBI HAMMER	30
DEMOLITION HAMMER / BREAKERS	34
DRILLING & CHISELING ACCESSORIES	38
HOLE SAWS	46
CORING MACHINES	47
DIAMOND CORE DRILL SETS	48
DIAMOND CORE DRILL BITS	49
CORING ACCESSORIES	51
DIAMOND SEGMENTS	52
GRINDING & CUTTING MACHINES	53-110
GRINDING AND CUTTING TOOLS	54
ANGLE GRINDERS	57
CONCRETE GRINDERS / PLANERS	66
STONE CUTTER	68
WALL CHASER	69
POLISHERS / SANDERS	71
RANDOM ORBIT SANDERS	74
ROUTERS	75
BENCH GRINDERS	77
BELT SANDERS	79
METAL CUTTING BLADE	80
CONCRETE CUTTING DIAMOND BLADE	83
GRINDING DIAMOND CUP WHEEL	92
FLAP DISC	95
DIAMOND POLISHING PAD	96
SANDING DISC	97
CUP SHAPE BRUSH	99
CIRCULAR SAW MACHINE	100
JIG SAW MACHINE	102
SABRE SAW MACHINE	103
PLANERS	104
ELECTRIC CHAIN SAW MACHINE	106
CIRCULAR SAW BLADE	107
JIG SAW BLADE	109
PADDLE MIXERS MACHINE	111-113
PADDLE MIXER	112
ELECTRIC HEAT GUN	113
CIVIL WORK MACHINES	114-119
ROAD CUTTER MACHINE	115
DRILLING RIG MACHINE	116

GASOLINE TAMPING RAMMER	116
PLATE COMPACTOR	117
SURFACE FINISHING SCREED	118
CONCRETE VIBRATOR	118
CONCRETE TROWEL MACHINE	119
THREADING AND ROLL GROOVING	120-133
ROLL GROOVER	121
THREADING MACHINE	123
THREAD CUTTING OIL	127
THREADING DIES	129
TUBING CUTTERS	130
PLASTIC PIPE CUTTER	132
TEFLON TAPE / THREAD SEAL TAPE	133
DIRECT FIXING POWDER & GAS	134-141
POWDER ACTUATED TOOL FOR NAILS	135
NAILS AND CARTRIDGES	136
GAS TOOLS FOR NAILS	139
GAS TOOL NAILS	140
GAS TOOL ACCESSORIES	141
INSULATION ANCHOR & FIXING	142-152
INSULATION ANCHOR	142
INSULATION POWDER ACTUATED TOOL	146
INSULATION ANCHOR WITH TOOL	147
INSULATION ANCHOR DATA SHEET	151
FRAMING FASTENING SYSTEM	153-165
FRAMING FASTENING SYSTEM	153
BRADDER PIN NAILER SYSTEM	161
DRYWALL SCREW FASTENING SYSTEM	163
SPECIAL FASTENING SYSTEM	165
MEASURING AND DETECTION EQUIPMENT	166-167
DIGITAL MESURING LASER DEVICE	166
DIGITAL MESURING LASER TAPE	167
METAL ANCHORS	168-198
TYPES OF METAL ANCHORS	169
GUTTER SUPPORTS	199-200
TYPES OF GUTTER SUPPORTS	200
CHEMICAL ANCHORS	201-206
CHEMICAL ANCHORS	203
CHEMICAL ANCHORS ACCESSORIES	204
DRYWALL SCREWS	207-209
TYPES OF DRYWALL SCREWS	208
FRAMING SYSTEM	210-216
TYPES OF FRAMING SYSTEM	211
WOOD CONNECTORS / WOOD TIE / TIMBER CONNECTORS	217-224
WOOD CONNECTORS	218
SAFETY PRODUCTS	225-235
SAFETY HELMETS	226
SAFETY VEST	228
TRAFFIC SAFETY CONES	229
SAFETY WARNING TAPE	230
SAFETY SIGNALLING LINK CHAINS	232
TRAFFIC CONTROL PADDLES	234
SAFETY SIGNS	235

► About Us

Established in 1998, with over 20 years of manufacturing experience, their own manufacturing plant, a committed and highly qualified workforce, FASTENER continue to produce the high quality and design of Power Tools that has established FASTENER as a brand leader amongst the world's top selling power tool brands. The FASTENER GROUP has a clearly focused strategy of generating profitable growth through reinvestment in order to maintain the technical excellence of their innovative and reliable products. This long term budgeted plan has resulted in a steady growth of all kind of Building Materials, Machineries and Fastener Accessories that now make up the Fastener Professional range of products. Today more than 7K people work in the FASTENER GROUP.

Headquartered in Dallas – Texas USA, have branches and factories for manufacturing in Germany, United Kingdom, Italy, South Korea, Japan, China, and Middle East.

FASTENER is committed to providing quality products that are well designed and professionally engineered, while offering our customers the

► Our Production – Precision and Quality

FASTENER's vast European production facility and modern automatic production lines, (guaranteeing fast flexible production with 100% quality control) benefits from using major components, motors, gears and housings that are manufactured in house. This unique system of start to finish manufacturing, from raw material to finished tools, guarantees quality from the very start of the manufacturing process. Continued high levels of investment, in research, development and modernisation of manufacturing plant and all its processes have allowed FASTENER to concentrate on the quality of products that are designed, manufactured and assembled in their own factory. The FASTENER principal of controlled in house manufacturing guarantees that only the highest quality of tools are delivered to their customers.

► Our Power Tools – Reliability and Performance

The current FASTENER range of more than 1000 Power Tools and accessories are designed for the most demanding jobs in adverse environments in the construction and engineering industries. Ongoing testing and continued improvement in the design (assisted by the use of FASTENER's own rapid prototype facility) and in house manufacturing processes guarantee, that FASTENER products continue to perform to the highest standards required by the professional tradesmen that choose them.

► Our Quality – Safety & Control

FASTENER will continue to achieve the highest standards of both products and manufacturing processes while achieving and maintaining the following strict standards:

- * ISO 9001:2008 certification guarantees the quality and traceability of the manufacturing process and products.
- * ISO 14001:2004 FASTENER have achieved ISO 14001:2004 certification for established and applied environmental management systems for the development, production and maintenance of Power Tools and accessories.
- * BS OHSAS 18001:2007 FASTENER are certified in accordance with BS OHSAS 18001:2007 relates to recognisable occupational health and safety management systems. This emphasis is placed on practises being pro-active and preventative, by identification of hazards and the evaluation and control of work related risks.
- * All FASTENER Power Tools strictly achieve EC-regulation for limitation of hazardous substances in Power Tools. FASTENER is registered member of EAR for recycling of old and used Power Tools.
- * directive RoHSII 2011/65/EU
- * directive WEEE 2012/19/EU

► HD Professional

FASTENER HD Professional power tools are designed for the most demanding jobs in adverse environments in the engineering and construction industries as well as being suitable for the aspiring home enthusiast.

All FASTENER Power Tools have been evaluated for conformity according to: EU Directives 2006/42/EC, 2014/30/EU, 2014/35/ EU by leading certification Authorities or have been tested by accredited technical laboratories for conformance with the regulations of EN 60745, EN 60335, EN 55014-1, EN 55014-2, EN 61000-3-2, EN 61000-3-3 standards. Our in-house technical laboratory is accredited and complies with the standards defined in ISO / IEC 17025:2005.

► Safety

FASTENER Power Tools comply with the safety requirements as provided in Directives 2006/42/EC, 2014/35/EU and their harmonized safety standards EN 60745, EN 60335. RADIO INTERFERENCE

FASTENER Power Tools are radio suppressed under directive 2014/30/EU and European Standards EN 55014-1, EN 55014-2, EN 61000-2-3, EN 61000-3-3

► Operating Voltage

FASTENER Power Tools are designed for single-phase operating voltage 110 V and 220~240 V and frequency 50~60 Hz.

► Double Insulation

FASTENER Power Tools are protectively insulated according to the requirements of EN 60745 and are marked accordingly with the double square safety mark. Double insulation provides electric shock protection through two separate levels of insulation—the non-conducting housing material and a second level of insulation for all internal electric components. Double insulated Power Tools do not require earthing.

► Weight

All weights according to EPTA-Procedure 01/2014.

- * without cable/cord
- * with all standard equipment necessary for normal use as auxiliary handles, guards, drill chuck, flanges etc.
- * without optional equipment as drill bits, discs, chisels etc.
- * cordless tools with battery

► Disclaimer

We reserve the right to make changes or improvements to our products without incurring an additional obligation. This includes any obligation to make corresponding changes or improvements in products previously manufactured or sold. E & O E.

Fastener
PROFESSIONAL



BUR2 18Li HD PROFESSIONAL



COMING
SOON

HEAVYDUTY



Battery charging
LED indicatorReverse button
spindle lock function
for screwing on hand

HEAVYDUTY



GR 3,6Li PROFESSIONAL

- Light and compact construction
- Robust metal gear box
- High quality Lithium-battery
- Auto spindle lock
- Variable speed and reverse
- LED work light
- Ergonomic soft-grip handle



Comes complete with:

Carry case, Adapter, 10 bits, Charger



TECHNICAL DATA		GR 3,6Li
Voltage:	V	3.6
Capacity:	Ah	1.3
No load rpm:	min ⁻¹	180
Tool holder:	Inch	1/4 Hexagon
Max. Torque:	Nm	4
Battery:		Li-Ion (integral)
Charging time:	h	3
Weight (including battery):	kg	0.32
Cat. No		13000191357 (EU); 13020191357 (UK)

BR2 7,2Li HD HD PROFESSIONAL

- Light and compact construction
- High quality Lithium-battery
- High performance motor
- Auto spindle lock
- Variable speed and reverse
- Synchronised two-speed gears
- Keyless single sleeve chuck
- Torque settings plus drilling: 19 pos.
- LED work light
- Ergonomic soft-grip handle

Comes complete with:

2 batteries, Fast charger



TECHNICAL DATA		BR2 7,2Li HD
Voltage:	V	7.2
Capacity:	Ah	1.3
No load rpm:	min ⁻¹	0-190 / 0-600
Keyless chuck:	mm	0.6-6
Max. Torque:	Nm	13
Torque settings:	pos.	19 + 1
Battery:		Li-Ion (removable)
Charging time:	h	0.5
Weight (including battery):	kg	1.1
Cat. No		14000192874 (EU)



GUR 10,8Li HD HD PROFESSIONAL

BR2 10,8Li HD HD PROFESSIONAL

Li-Ion Twin Set HD PROFESSIONAL

Cat. № 14000500552

- Light and compact construction
- High quality Lithium-battery
- High performance motor
- High torque
- Variable speed and reverse
- Electric motor brake
- LED work light
- LED battery indicator
- Ergonomic soft-grip handle

- Synchronised two-speed gears
- Keyless single sleeve chuck
- Torque settings plus drilling: 17

Contents:

- Li-Ion Drill driver BR2 10,8Li HD
- Li-Ion Impact driver GUR 10,8Li HD
- 2 Li-Ion 1.5Ah batteries
- Fast charger
- Carry case



Comes complete with:

Carry case, 2 batteries, Fast charger



TECHNICAL DATA		GUR 10,8Li HD	BR2 10,8Li HD
Voltage:	V	10.8	10.8
Capacity:	Ah	1.5	1.5
No load rpm:	min ⁻¹	0-2200	0-400 / 0-1400
No load impact rate:	min ⁻¹	0-3000	-
Keyless chuck:	mm	-	0.8 - 10
Max. torque:	Nm	100	32
Torque settings:	pos.	-	17 + 1
Battery:		Li-Ion (removable)	Li-Ion (removable)
Charging time:	min	40	40
Weight (including battery):	kg	1	1.1
Cat. №		14000192651	14000192451

HEAVYDUTY



BR2 15Li HD PROFESSIONAL

BR2 18Li HD PROFESSIONAL

BUR2 15Li HD PROFESSIONAL

- Variable speed and reverse
- High speed in 2nd gear for efficient drilling
- High torque for various applications
- 25 torque settings plus drilling
- Synchronized two-speed gearbox with metal planetary gears
- Spindle lock
- Keyless single sleeve chuck
- Modern ergonomic design for comfort and balance
- Ergonomic soft-grip handle
- Hammer drill function (BUR2 15Li HD, BUR2 18Li HD)
- LED work light
- LED battery level indicator
- Electric motor brake
- Optimized power consumption, allowing a greater number of operations with one battery charging
- Intelligent, fan cooled, fast charger
- Convenient belt clip

Comes complete with:

BR2 15Li HD, BR2 18Li HD: Carry case, 2 batteries, Fast charger

BUR2 15Li HD, BUR2 18Li HD: Carry case, 2 batteries, Fast charger, Auxiliary handle



TECHNICAL DATA		BR2 15Li HD	BR2 18Li HD	BUR2 15Li HD	BUR2 18Li HD
Voltage:	V	14.4	18	14.4	18
Capacity:	Ah	2 / 4	2 / 4	4	4
No load rpm:	min ⁻¹	0-450 / 0-1450	0-450 / 0-1450	0-350 / 0-1700	0-400 / 0-1800
No load impact rate:	min ⁻¹	-	-	0-6300 / 0-30600	0-7200 / 0-32400
Keyless chuck:	mm	10	10	13	13
Max. Torque:	Nm	44	46	65	68
Torque settings:	pos.	25+1	25+1	25+1	25+1
Battery:		Li-Ion	Li-Ion	Li-Ion	Li-Ion
Weight (including battery):	kg	1.4 (2Ah) / 1.6 (4Ah)	1.5 (2Ah) / 1.7 (4Ah)	1.9	2.0
Cat. No		12000194053 (2Ah) 12000194087 (4Ah)	12000194253 (2Ah) 12000194287 (4Ah)	12000193987	12000193887

New

- Increased torque
- Increased speed on second gear
- Reduced overall dimensions
- Reduced weight



Twin Set

BR2 12E PROFESSIONAL

Cat. Nr 13000193784 (2 x 1.7Ah)
Cat. Nr 13000193786 (2 x 2.0Ah)



Contents:

- Cordless Drill driver BR2 12E
- Cordless Flashlight FL 12L:
 - Compact and handy
 - Energy efficient 24 LEDs
 - LED product class 1
 - Luminous intensity 13 Cd
 - Voltage 12 V
- 2 x 1.7/2.0Ah batteries
- Fast charger
- Carry bag

- Variable speed and reverse
- Keyless single sleeve chuck
- Modern ergonomic design for comfort and balance
- 15 torque settings plus drilling
- LED work light (switched)
- LED battery indicator
- Synchronized two-speed gearbox with metal planetary gears
- Electric motor brake
- Integrated bit holder
- Ergonomic soft-grip handle
- Safety strap



Comes complete with:
Carry case, 2 batteries, Fast charger

TECHNICAL DATA		BR2 12E
Voltage:	V	12
Capacity:	Ah	1.7 / 2.0
No load rpm:	min ⁻¹	0-350 / 0-1250
Torque settings:	pos.	15+1
Keyless chuck:	mm	0.8 - 10
Drilling capacity in steel / wood:	mm	10 / 25
Max. torque:	Nm	28
Battery:		NiCd
Charging time:	h	1
Weight (including battery):	kg	1.5
Cat. Nr		1.7Ah: 13000193752 (EU) 2.0Ah: 13000193753 (EU)



Bit holders



BR 15E PROFESSIONAL

- Variable speed and reverse
- Keyless single sleeve chuck
- Modern ergonomic design for comfort and balance
- 15 torque settings plus drilling
- LED work light (switched)
- LED battery indicator
- Synchronized two-speed gearbox with metal planetary gears
- Electric motor brake
- Integrated bit holder
- Ergonomic soft-grip handle
- Safety strap



Comes complete with:

Carry case, 2 batteries, Fast charger

TECHNICAL DATA		BR 15E
Voltage:	V	14.4
Capacity:	Ah	1.5 / 2.0
No load rpm:	min ⁻¹	0-350 / 0-1100
Torque settings:	pos.	15+1
Keyless chuck:	mm	0.8-10
Drilling capacity in steel / wood:	mm	10 / 25
Max. torque:	Nm	25
Battery:		NiCd
Charging time:	h	1
Weight (including battery):	kg	1.9 (1.5Ah) / 2.1 (2.0Ah)
Cat. No		1.5Ah: 13000190551 (EU) 2.0Ah: 13000190553 (EU)





BAR 12E PROFESSIONAL

- Variable speed and reverse
- Keyless single sleeve chuck
- Compact for working in confined spaces
- 12 torque settings
- Electric motor brake
- LED work light
- Ergonomic soft-grip handle



LED work light

Comes complete with:

Carry case, 2 batteries, Fast charger

TECHNICAL DATA		BAR 12E
Voltage:	V	12
Capacity:	Ah	2
No load rpm:	min ⁻¹	0-800
Keyless chuck:	mm	1.5-10
Max. torque:	Nm	18
Torque settings:	pos.	12
Tool length:	mm	350
Battery:		NiCd
Charging time:	h	1
Weight (including battery):	kg	2.2
Cat. No		13000190853 (EU); 13020190853 (UK)



- 3-Speed / Torque control

HEAVYDUTY**GUR 15Li • GUR 15SLi HD PROFESSIONAL****GUR 18Li • GUR 18SLi HD PROFESSIONAL****SCREWDRIVER BIT SETS**

- High torque for efficient insertion of screws and bolts
- Quick-action 1/4" Hex for fast bit change (GUR 15Li HD, GUR 18Li HD)
- 1/2" Square drive for sockets etc. (GUR 15SLi HD, GUR 18SLi HD)
- Lock off trigger
- 3 position speed/torque pre-selection with variable speed in each range
- Full metal gearbox
- High torque
- Modern ergonomic design for comfort and balance
- Ergonomic soft-grip handle
- Electric motor brake
- LED battery level indicator
- LED speed/torque setting indicator
- Intelligent, fan cooled, fast charger

Comes complete with:

Carry case, 2 batteries, Fast charger



TECHNICAL DATA		GUR 15Li HD	GUR 15SLi HD	GUR 18Li HD	GUR 18SLi HD
Voltage:	V	14.4	14.4	18	18
Capacity:	Ah	2 / 4	2 / 4	4	4
No load rpm:	min ⁻¹	0-1100 / 0-1800 / 0-2800	0-1100 / 0-1800 / 0-2800	0-1100 / 0-1800 / 0-2800	0-1100 / 0-1800 / 0-2800
Max. torque:	Nm	150	160	160	170
Tool holder:	Inch	1/4 Hexagon	1/2" Square drive	1/4 Hexagon	1/2" Square drive
Battery:		Li-Ion	Li-Ion	Li-Ion	Li-Ion
Weight (including battery):	kg	1.3 (2Ah) / 1.5 (4Ah)	1.3 (2Ah) / 1.5 (4Ah)	1.5	1.5
Cat. No		12000194153 (2Ah) 12000194187 (4Ah)	12000194453 (2Ah) 12000194487 (4Ah)	12000194387	12000194587



GUR 12 PROFESSIONAL

- Variable speed and reverse
- Aluminium alloy gearbox
- High torque
- Electric motor brake
- External brush change facility
- LED work light
- Ergonomic soft-grip handle
- Safety strap



Comes complete with:

Carry case, 2 batteries, Fast charger

TECHNICAL DATA		GUR 12
Voltage:	V	12
Capacity:	Ah	2
No load rpm:	min ⁻¹	0-2300
Impact rate:	min ⁻¹	0-3000
Max. torque:	Nm	160
Tool holder:	Inch	1/4 Hexagon
Tool length:	mm	162
Battery:		NiCd
Charging time:	h	1
Weight (including battery):	kg	1.7
Cat. No		13000190653 (EU); 13020190653 (UK)



GUR 12S PROFESSIONAL

- 2-in-1 for wrench and driver
- 1/2" / 1/4" hex adapter (as shown)



Bit Set - 22 bits



GUR 12S Driver Adapter

Comes complete with:

Carry case, 2 batteries, Fast charger, Adapter, 22 bits

TECHNICAL DATA		GUR 12S
Voltage:	V	12
Capacity:	Ah	2
No load rpm:	min ⁻¹	0-2300
Impact rate:	min ⁻¹	0-3000
Max. torque:	Nm	195
Tool holder:	Inch	1/2 Square drive
Tool length:	mm	158
Battery:		NiCd
Charging time:	h	1
Weight (including battery):	kg	1.7
Cat. No		13000190753 (EU); 13020190753 (UK)

Battery packs

Battery	Voltage/ Capacity	Type	Used with	Pcs/Pack	Cat. №
NiCd 	① 12V, 2.0 Ah	NiCd	BAR 12E, GUR 12(S)	1	20009706000
	② 9.6V, 1.5 Ah	NiCd	BR 9,6E	1	20009700400
	③ 12V, 1.7 Ah	NiCd	BR2 12E	1	20009705300
	④ 12V, 2.0 Ah	NiCd	BR2 12E	1	20009700300
	⑤ 14.4V, 1.5 Ah	NiCd	BR 15E	1	20009700600
	⑥ 14.4V, 2.0 Ah	NiCd	BR 15E	1	20009700700
	⑦ 14.4V, 2.0 Ah	NiCd	BUR2 15E	1	20009702000
	⑧ 18V, 2.0 Ah	NiCd	BUR2 18E	1	20009700800

Battery	Voltage/ Capacity	Type	Used with	Pcs/Pack	Cat. №
Li-Ion 	① 7.2V, 1.3 Ah	Li-Ion	BR2 7.2Li HD	1	20008706300
	② 10.8V, 1.3 Ah	Li-Ion	BR 10.8Li	1	20009705800
	③ 10.8V, 1.3 Ah	Li-Ion	BR2 10.8Li HD, GUR 10.8Li HD	1	20008707700
	④ 14.4V, 2.0 Ah	Li-Ion	BR2 15Li, GUR 15Li	1	20008712100
	⑤ 14.4V, 4.0 Ah	Li-Ion	BR2 15Li, BUR2 15Li, GUR 15Li	1	20008712200
	⑥ 18V, 2.0 Ah	Li-Ion	BR2 18Li	1	20008712300
	⑦ 18V, 4.0 Ah	Li-Ion	BR2 18Li, BUR2 18Li, GUR 18Li	1	20008712400
	⑧ 14.4V, 1.3 Ah	Li-Ion	BPR 15Li	1	20009708200

Charger

Charger	Output voltage/current	Used with	Pcs/Pack	Cat. №
	① 12V / 1.8A	GUR 12(S), BAR 12E	1	20009705900
	② 9.6V / 1.5A	BR 9,6E	1	20009702100
	③ 12V / 1.7A	BR2 12E	1	20009702200
	④ 12V / 2A	BR2 12E	1	20009703700
	⑤ 14.4V / 1.5A	BR 15E	1	20009702300
	⑥ 14.4V / 2A	BR 15E, BUR2 15E	1	20009703800
	⑦ 18V / 3A	BUR2 18E	1	20009703900
	⑧ 5V / 0.3A	GR 3,6Li	1	20009704600
	⑨ 9V / 0.7A	GR 7,2Li	1	20009704700
	⑩ 14V / 1.4A	BR 10.8Li	1	20009704800
	⑪ 12V / 3A	BR2 10.8Li HD, GUR 10.8Li HD	1	20008707800
	⑫ 14.4V / 18V	BR2 15Li HD, BR2 18Li HD, BUR2 15Li HD, BUR2 18Li HD, GUR 15Li HD, GUR 18Li HD	1	20008712500
	⑬ 14.4V	BPR 15Li	1	20009708000
	⑭ 7.2V	BR2 7.2Li HD	1	20008706400



Screwdriver Bits - Chrome Vanadium (Cr-V)

SCREWDRIVER BITS

Double Ended Bits	Type / Length, mm	Cat. № (2 pcs)	Cat. № (10 pcs)
	PZ 1 / 50	20009724501	20009724509
	PZ 2 / 50	20009724601	20009724609
	PZ 3 / 50	20009724701	20009724709
	PH 1 / 50	20009724801	20009724809
	PH 2 / 50	20009724901	20009724909
	PH 3 / 50	20009725001	20009725009
	SZ 0.6x4.5 / 50	20009726501	20009726509
	SZ 0.8x5.5 / 50	20009726601	20009726609
	SZ 1.2x6.5 / 50	20009726701	20009726709
	TX 10 / 50	20009725101	20009725109
	TX 15 / 50	20009725201	20009725209
	TX 20 / 50	20009725301	20009725309
	TX 25 / 50	20009725401	20009725409
	HEX 3 / 50	20009725501	20009725509
	HEX 4 / 50	20009725601	20009725609
	HEX 5 / 50	20009725801	20009725809
	HEX 6 / 50	20009725901	20009725909

Bits	Type / Length, mm	Cat. № (10 pcs)	Cat. № (100 pcs)
	PZ 1 / 25	20009720009	20009720012
	PZ 2 / 25	20009720109	20009720112
	PZ 3 / 25	20009720209	20009720212
	PH 1 / 25	20009720309	20009720312
	PH 2 / 25	20009720409	20009720412
	PH 3 / 25	20009720509	20009720512
	SZ 0.6x4.5 / 25	20009720609	20009720612
	SZ 0.8x5.5 / 25	20009720709	20009720712
	SZ 1.2x6.5 / 25	20009720809	20009720812
	TX 10 / 25	20009720909	20009720912
	TX 15 / 25	20009721009	20009721012
	TX 20 / 25	20009721109	20009721112
	TX 25 / 25	20009721209	20009721212
	HEX 3 / 25	20009721309	20009721312
	HEX 4 / 25	20009721409	20009721412
	HEX 5 / 25	20009721509	20009721512
	HEX 6 / 25	20009721609	20009721612

DRYWALL INDENTER BITS	Type / Length, mm	Pcs/Pack	Cat. №
	PH 2 / 25	2	20009727001

MAGNETIC HOLDER	Material	Pcs/Pack	Cat. №
	Cr-V	1	20009722300

SCREWDRIVER BIT SETS



Double Ended Screwdriver Bit Sets	Cat. №
Double Ended Bit Set 10 pcs / 50 mm	
PH1, PH2, PZ1, PZ2, PZ3, TX15, TX20, TX25, SZ 0.8x5.5, SZ 0.6x4.5	20009726014
Double Ended Bit Set 10 pcs / 50 mm	
PH2, PH3, PZ2, PZ3, SZ 0.8x5.5, SZ 1.2x6.5, TX15, TX20, HEX4, HEX6	20009726114
Double Ended Bit Set 10 pcs	
PH1 x PH2 (50 mm), PH2 x PH2 (50 mm), PH1 x PZ1 (50 mm), PH2 x PZ2 (50 mm), PZ1 x PZ2 (50 mm), PZ2 x PZ2 (50 mm), PH1 x SZ 4.0x65 mm, PH2 x SZ 5.5x65 mm, PZ1 x SZ 4.0x65 mm, PZ2 x SZ 5.5x65 mm	20009726214



Screwdriver Bit Sets	Cat. №
Bits Pozidrive 10pcs / Magnetic holder	
PZ1 - 2 pcs; PZ2 - 5 pcs; PZ3 - 2 pcs; Magnetic holder	20009721814
Set Bits Torx 10 pcs / Magnetic holder	
TX10 - 1 pc; TX15 - 2 pcs; TX20 - 3 pcs; TX25 - 2 pcs; TX30 - 1 pc; Magnetic holder	20009721914
Set Bits Mixed 10 pcs / Magnetic holder	
PH1, PH2, PZ1, PZ2, PZ3, TX15, TX20, TX25, SZ 0.8 x 5.5; Magnetic holder	20009722014
Set Bits Mixed 10 pcs / Magnetic holder	
PZ 2, PZ 3, PH 2, PH 3, SZ 0.8x5.5, SZ 1.2 x 6.5, TX 15, TX 20, HEX 4, Magnetic holder	20009722114

Fastener

PROFESSIONAL

SCREWDRIVER BITS - S2

SCREWDRIVER BITS

HD Bits	Type / Length, mm	Cat. № (10 pcs)	Cat. № (100 pcs)
	Pozidrive		
	S2 PZ 1 / 25	20008720009	20008720012
	S2 PZ 2 / 25	20008720109	20008720112
	Phillips		
	S2 PH 1 / 25	20008720309	20008720312
	S2 PH 2 / 25	20008720409	20008720412
	Slotted		
	S2 SZ 0.6x4.5 / 25	20008720609	20008720612
	S2 SZ 0.8x5.5 / 25	20008720709	20008720712
	Torx		
	S2 TX 10 / 25	20008720909	20008720912
	S2 TX 15 / 25	20008721009	20008721012
	Hex		
	S2 TX 20 / 25	20008721109	20008721112
	S2 TX 25 / 25	20008721209	20008721212
	Hex		
	S2 TX 30 / 25	20008721309	20008721312
	S2 HEX 3 / 25	20008721409	20008721412
	S2 HEX 4 / 25	20008721509	20008721512
	S2 HEX 5 / 25	20008721609	20008721612
	S2 HEX 6 / 25	20008721709	20008721712

DRYWALL INDENTER BITS	Type / Length, mm	Pcs/Pack	Cat. №
	PH 2 / 25	1	20008726900
	PH 2 / 25	2	20008726901

FAST CHANGE MAGNETIC HOLDER	Material	Pcs/Pack	Cat. №
	S2	1	20008722400

32 PIECES BIT SET	Cat. №
	20009726414

5 pcs Hex sockets: 6/7/8/9/10 mm
1 pc quick change magnetic holder
8 pcs bits - Cr-V, length: 50 mm
18 pcs bits - Cr-V, length: 25 mm

25 PIECES BIT SET	Cat. №
	20009724314

3 pcs Hex sockets: 6/8/10 mm
Compact Screw Guide
1x6 mm Hex quick change connector
Hex to Square adapter:
6 mm x 10 mm;
7 pcs Hex screwdriver bits 25 mm:
P1 x2, P2, P3, 4-6 Slotted, R2
6 pcs Hex screwdriver bits 50 mm:
4-6 Slotted, 6-8 Slotted, R1, RS,
P1, P2
6 pcs Hex Titanium coated drill
bits: 1.5 mm, 2.0 mm, 2.5 mm,
3.0 mm, 5.0 mm, 6.0 mm
Storage pouch

HEAVY DUTY PREMIUM QUALITY

SCREWDRIVER BIT SETS



HD Screwdriver Bit Sets	Cat. №
S2 mixed bit sets 10 pcs / Fast change magnetic holder	
S2-PH1; S2-PH2; S2-PZ1; S2-PZ2; S2-SZ-0.6x4.5; S2-SZ-1.2x6.5; S2-TX15; S2-TX20; S2-TX30; Fast change magnetic holder	20008722214
S2 mixed bit sets 15 pcs / Fast magnetic holder	
PH 1; PH 2; PH 3; PZ 1; PZ 2; PZ 3; SZ 4; SZ 5; HEX3; HEX 4; HEX 5; TORX 20; TORX 25; TORX 30;	20008744414
S2 mixed bit sets 64 pcs / Fast magnetic holder	
63 pcs Bits with 1 pc Magnetic holder	20008726314

BELT HOLSTER

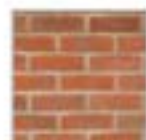


Used with	Pcs/Pack	Cat. №
① BR2 7.2Li HD, GUR 10.8Li HD BR2 10.8Li HD	1	20009704500
② BR2 7.2Li HD, GUR 10.8Li HD BR2 10.8Li HD	1	20009711600





Drill Bit for Concrete (p. 44)



Drill Bit for Masonry (p. 44)



Drill Bit for Metal (p. 45)



Drill Bit for Wood (p. 48)



Keyed chuck



Keyless chuck



Powerful, high torque motor

DRILLING EFFICIENCY



The **Fastener** drill range offers convenient and reliable machines for all types of drilling.

The technical specifications will help you choose the ideal tool for your needs. These impact drills are ergonomic, light and easy to use.

The electronic speed pre-selection and torque control provides ultimate speed and torque control for the most precise drilling processes while maintaining speed regardless of load.

Wide range of drill bits for metal, stone and wood, suitable for **Fastener** drills and all other professional machines.



BUR 131E

BK 3

Cat. No 13000011457

KEYED CHUCK with **CHUCK KEY** are available in chuck sizes 10, 13 and 16 mm



KEYLESS CHUCKS are available in chuck sizes 10 and 13 mm



KEYLESS CHUCKS WITH DRILL NIBBLER



- Electronic speed pre-selection
- Trigger speed control switch
- Reverse
- Lock-on switch
- Belt clip
- Ergonomic soft-grip handle
- Compact for working in confined spaces
- Double insulation

- Convenient set with accessories for all types of drilling and fixing
- Contents:
 - Impact drill BUR 131E
 - Keyless chuck
 - Auxiliary handle
 - Depth gauge
 - 5 drill bits
 - 5 sockets
 - 6 screwdriver bits
 - Carry case



Comes complete with:
Keyless chuck, Auxiliary handle, Depth gauge

Option:
Keyed chuck Cat. No 13000011458

TECHNICAL DATA		BUR 131E
Drilling capacity in:		
- concrete	mm	13
- steel	mm	13
- non-ferrous metals	mm	16
- wood	mm	20
No load rpm:	min ⁻¹	0-2800
No load impact rate:	min ⁻¹	45000
Spindle thread:	UNF	1/2"-20
Chuck capacity:	mm	1.5-13
Journal diameter:	mm	43
Weight:	kg	2.0
Power input:	W	600
Cat. No		13000011401



HEAVY DUTY



BUR 150E

BUR 150CET **HD** PROFESSIONAL

- Electronic speed pre-selection
- Trigger speed control switch
- Lock-on switch
- Reverse
- On/Off impact mode switch
- Ergonomic soft-grip handle
- Auto-stop brushes
- Double insulation

- Constant electronics
- Torque control



Comes complete with:

Keyed chuck, Auxiliary handle, Depth gauge

Options (cat. № 10000011601):

Keyless chuck, Auxiliary handle, Depth gauge

Comes complete with:

Keyed chuck, Auxiliary handle, Depth gauge

Options (cat. № 12000011701):

Keyless chuck, Auxiliary handle, Depth gauge

TECHNICAL DATA		BUR 150E
Drilling capacity in:		
- concrete	mm	15
- steel	mm	13
- non-ferrous metals	mm	16
- wood	mm	25
No load rpm:	min ⁻¹	0-2800
No load impact rate:	min ⁻¹	42000
Max. torque:	Nm	9
Spindle thread:	UNF	1/2"-20
Chuck capacity:	mm	1.5-13
Journal diameter:	mm	43
Max. screw in wood:	mm	Ø6, L=100
Weight:	kg	2
Power input:	W	600
Cat. №		10000011600

TECHNICAL DATA		BUR 150CET
Drilling capacity in:		
- concrete	mm	15
- steel	mm	13
- non-ferrous metals	mm	16
- wood	mm	25
No load rpm:	min ⁻¹	500-2500
No load impact rate:	min ⁻¹	37500
Max. torque:	Nm	9
Spindle thread:	UNF	1/2"-20
Chuck capacity:	mm	1.5-13
Journal diameter:	mm	43
Max. screw in wood:	mm	Ø6, L=100
Weight:	kg	2
Power input:	W	600
Cat. №		12000011700

HEAVYDUTY



BU2 160 HD PROFESSIONAL

- Trigger speed control switch
- Synchronised metal 2-speed gears
- Lock-on switch
- On/Off impact mode switch
- Magnesium alloy gearbox
- Belt clip
- Ergonomic soft-grip handle
- Auto-stop brushes
- Double insulation

Comes complete with:

Keyed chuck, Auxiliary handle, Depth gauge

Options:

1. Carry case, Keyless chuck, Anti-vibration side handle
cat. No 12000022463 (230V EU)
2. Keyless chuck
cat. No 12000022401 (230V EU)

TECHNICAL DATA		BU2 160
Drilling capacity:		
- concrete	mm	16 / 10
- steel	mm	13 / 8
- non-ferrous metals	mm	16 / 10
- wood	mm	40 / 25
No load rpm:	min ⁻¹	1200 / 3500
No load impact rate:	min ⁻¹	54000
Spindle thread:	UNF	1/2"-20
Chuck capacity:	mm	1.5-13
Journal diameter:	mm	43
Max. screw in wood:	mm	-
Weight:	kg	2.2
Power input:	W	720
Cat. No		12000022400 (230V EU)



BUR2 160E HD PROFESSIONAL

- Electronic speed pre-selection
- Reverse



Comes complete with:

Keyed chuck, Auxiliary handle, Depth gauge

Options:

1. Carry case, Keyless chuck, Anti-vibration side handle
cat. No 12000022663 (230V EU)
cat. No 12021022663 (110V UK) ; 12020022663 (230V UK)
2. Keyless chuck
cat. No 12000022601 (230V EU)

TECHNICAL DATA		BUR2 160E
Drilling capacity:		
- concrete	mm	16 / 10
- steel	mm	13 / 8
- non-ferrous metals	mm	16 / 10
- wood	mm	40 / 25
No load rpm:	min ⁻¹	0-1200 / 0-3500
No load impact rate:	min ⁻¹	54000
Spindle thread:	UNF	1/2"-20
Chuck capacity:	mm	1.5-13
Journal diameter:	mm	43
Max. screw in wood:	mm	Ø6, L=100
Weight:	kg	2.2
Power input:	W	720
Cat. No		12000022600 (230V EU)

HEAVYDUTY**BUR2 200E HD PROFESSIONAL**

- Electronic speed pre-selection
- Trigger speed control switch
- Synchronised metal 2-speed gears
- Lock-on switch
- Reverse
- On/Off impact mode switch
- Ergonomic soft-grip handle
- Reinforced polyamide housing
- Auto-stop brushes
- Double insulation

Comes complete with:

Keyed chuck, Auxiliary handle, Depth gauge

Options: Keyless chuck, cat. № 12000021001

TECHNICAL DATA		BUR2 200E
Drilling capacity in:		
- concrete	mm	20 / 13
- steel	mm	13 / 8
- non-ferrous metals	mm	20 / 13
- wood	mm	40 / 25
No load rpm:	min ⁻¹	0-1200 / 0-3500
No load impact rate:	min ⁻¹	63000
Spindle thread:	UNF	1/2"-20
Chuck capacity:	mm	1.5-13
Journal diameter:	mm	43
Max. screw in wood:	mm	Ø6, L=100
Weight:	kg	2.6
Power input:	W	720
Cat. №		12000021000

BUR2 201E HD PROFESSIONAL

- Magnesium alloy gearbox



2-speed gears



Drilling



Hammer drilling

Comes complete with:

Keyless chuck, Auxiliary handle, Depth gauge

TECHNICAL DATA		BUR2 201E
Drilling capacity in:		
- concrete	mm	20 / 13
- steel	mm	13 / 8
- non-ferrous metals	mm	20 / 13
- wood	mm	40 / 25
No load rpm:	min ⁻¹	0-1200 / 0-3500
No load impact rate:	min ⁻¹	63000
Spindle thread:	UNF	1/2"-20
Chuck capacity:	mm	1.5-13
Journal diameter:	mm	43
Max. screw in wood:	mm	Ø6, L=100
Weight:	kg	2.4
Power input:	W	720
Cat. №		12000021301

HEAVYDUTY



BUR2 250E HD PROFESSIONAL

- Electronic speed pre-selection
- Synchronised metal 2-speed gears
- Lock-on switch
- Reverse
- On/Off impact mode switch
- Magnesium alloy gearbox
- Ergonomic soft-grip handle
- Auto-stop brushes
- Double insulation

Comes complete with:

Keyed chuck, Auxiliary handle, Depth gauge

Options:

1. Carry case, Keyless chuck, Anti-vibration side handle, cat. № 12021021963 (110V UK); 12020021963 (230V UK); 12000021963 (230V EU)
2. Carry case, cat. № 12000021950 (230V EU)

BUR2 250CET HD PROFESSIONAL

- Constant electronics
- Torque control
- Safety restart cut out
- Live tool indicator when plugged into the power supply

Comes complete with:

Keyed chuck, Auxiliary handle, Depth gauge

Options:

Carry case, Keyless chuck, Anti-vibration side handle, cat. № 12000022063 (230V EU)

Anti-Vibration handle

New Anti-vibration side handle – helps reduce vibration level and user fatigue by up to 40%



Anti Vibration



TECHNICAL DATA		BUR2 250E	BUR2 250CET
Drilling capacity in:			
- concrete	mm	25 / 13	25 / 13
- steel	mm	16 / 10	16 / 10
- non-ferrous metals	mm	20 / 6	20 / 6
- wood	mm	40 / 25	40 / 25
No load rpm:	min ⁻¹	0-1000 / 0-2900	0-1000 / 0-2900
No load impact rate:	min ⁻¹	18000 / 52200	18000 / 52200
Torque control:	Nm	-	3-20 / 1-7
Max. torque:	Nm	46	46
Spindle thread:	UNF	1/2"-20	1/2"-20
Chuck capacity:	mm	1.5-13	1.5-13
Journal diameter:	mm	43	43
Max. screw in wood:	mm	Ø6, L=100	Ø6, L=100
Weight:	kg	2.7	2.7
Power input:	W	900 (110V-50Hz)	1010 (230V-50Hz)
Cat. №		12121021963 (110V UK)	12000021900 (230V EU)
			12000022000 (230V EU)



BU2 350 HD PROFESSIONAL

BUR2 350E HD PROFESSIONAL

- Electronic speed pre-selection (Index E/CET)
- Constant electronics (Index CE, CET)
- Torque control (Index CET)
- Safety restart cut out (Index CET)
- Trigger speed control switch
- Synchronised metal 2-speed gears
- Lock-on switch
- Reverse (Index E, CE, CET)
- High torque
- Mechanical safety clutch
- On/Off impact mode switch

- Additional electronic clutch from the over-current protection system (Index CE)
- Magnesium alloy gearbox
- Live tool indicator when plugged into the power supply (index CET)
- LED overload indicator (Index CET)
- Ergonomic soft-grip handle
- Closed D-handle for additional safety and control
- Auto-stop brushes
- Double insulation

Comes complete with:

Keyed chuck, Auxiliary handle, Depth gauge
(BUR2 350, BUR2 350E, BUR2 350CET)

Carry case, Keyed chuck, Anti-vibration
auxiliary handle, Depth Gauge
(BUR2 355CE)

Options:

Carry case (BUR2 350E)
cat. No 12020030659 (110V UK);
12020030659 (230V UK)

TECHNICAL DATA		BU2 350	BUR2 350E
Drilling capacity in:			
- concrete	mm	16 / 10	16 / 10
- steel	mm	16 / 10	16 / 10
- non-ferrous metals	mm	20 / 13	20 / 13
- wood	mm	45 / 20	45 / 20
Max. core size in masonry:	mm	—	152
No load rpm:	min ⁻¹	800 / 2000	0-800 / 0-2000
No load impact rate:	min ⁻¹	36000	36000
Torque control:	Nm	—	—
Max. torque:	Nm	65	35 (UK) / 65 (EU)
Spindle thread:	UNF	1/2"-20	1/2"-20
Chuck capacity:	mm	3-16	3-16
Journal diameter:	mm	43	43
Max. screw in wood:	mm	—	Ø8, L=100
Weight:	kg	3.5	3.5
Power input:		1010 (230V-50Hz)	1100 (110V-50Hz) 1100 (UK) / 1010 (EU) (230V-50Hz)
Cat. No		12000030100 (230V EU)	12000030302 (230V EU)

New



HEAVYDUTY



R 10E HD PROFESSIONAL

- High torque, high power motor for reliable results
- Automatic reverse function by pulling back the machine body
- Magnesium alloy gearbox

- Collar for use with drill stands
- Ergonomic soft-grip handle
- Belt clip for convenient work
- Auto-stop brushes
- Double insulation



Reverse



Stroke



Mechanical mechanism for reversing the machine after threading



Self-adjusting two-jaw chuck for taps to compensate for alignment between the hole and thread the spindle position

SCREW TAPS

A tap cuts threads on the inside of a hole, to accept a machine screw or bolt. Taps can also be used to restore an internal thread that has been damaged or to cut a new, larger thread in the case of severe damage or stripping. Spiral flutes provide efficient chip disposal in brass, copper, aluminium and steel.



Comes complete with:

Depth gauge, Auxiliary handle

TECHNICAL DATA		R 10E
Chuck capacity:	mm	M4 – M10
No load rpm:		
- right run	min ⁻¹	0–520
- left run	min ⁻¹	0–1040
Journal diameter:	mm	43
Weight:	kg	2.2
Power input:	W	450
Cat. No		12000205200

HEAVYDUTY



BVR 54E • BVR 63E HD PROFESSIONAL

- Electronic speed pre-selection
- Compact, lightweight screwdriver for permanent use (BVR 54/63E)
- Lock-on switch
- Reverse
- Aluminium adjustable depth stop (BVR 62E, BVR 64E, BVR 66E)
- Universal magnetic tool holder
- Removable depth stop
- Magnesium alloy gearbox
- Belt clip
- Ergonomic soft-grip handle
- Auto-stop brushes
- Double insulation



BVR 62E • BVR 64E • BVR 66E PROFESSIONAL

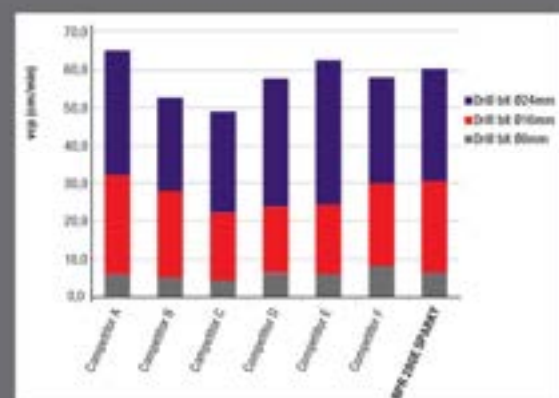
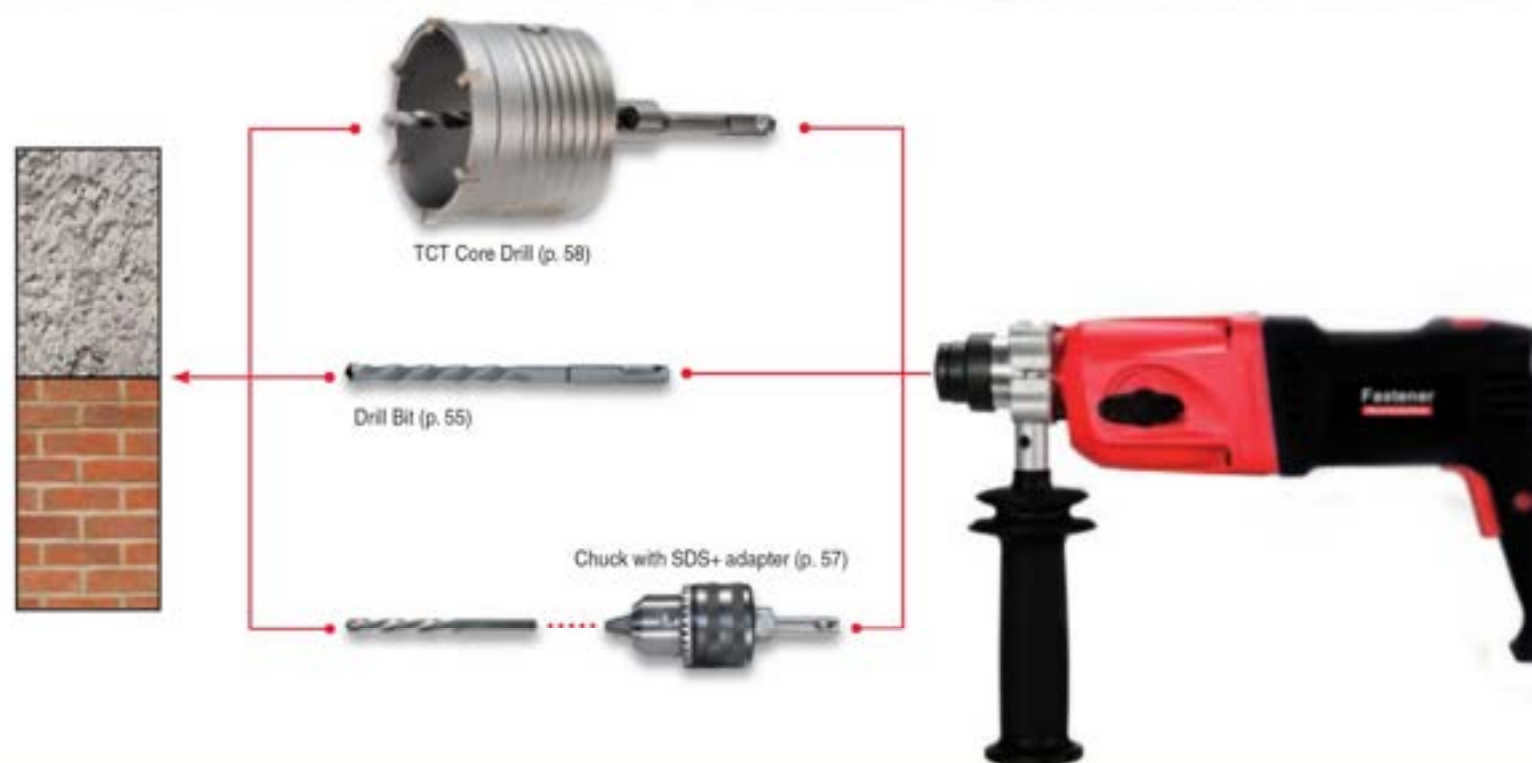


Comes complete with: Aluminium adjustable depth stop

TECHNICAL DATA	BVR 54E	BVR 62E	BVR 63E	BVR 64E	BVR 66E
No load rpm:	min ⁻¹ 0-4000	0-2500	0-3000	0-4000	0-6000
Tool holder:	mm 6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")
Max. torque:	Nm 8	22	10	15	8
Weight:	kg 1.2	1.6	1.2	1.6	1.6
Power Input:	W 450 (230V-50Hz)	705 (110V-50Hz) 705 (230V-50Hz)	450 (230V-50Hz)	705 (110V-50Hz) 705 (230V-50Hz)	705 (110V-50Hz) 705 (230V-50Hz)
Cat. No	12000205300	10000200900 (230V EU) 10111200900 (110V UK) 10110200900 (230V UK)	12000205400	10000201000 (230V EU) 10121201000 (110V UK) 10120201000 (230V UK)	10000201100 (230V EU) 10111201100 (110V UK) 10110201100 (230V UK)
OPTIONS: Carry case	12000205350	10000200950 (230V EU)	12000205450	10000201050 (230V EU)	10000201150 (230V EU)



High-power, High-efficiency Motors with Advanced Anti-vibration Technology



Our rotary hammers are designed for a wide variety of different uses. The current range covers several classes of hammers from 2–8 kg

The High Power Mode in the hammer drills upper range, gives increased impact action. The electronic system is equipped with speed pre-selection control (E) and with increased impact rate/energy (CE). The Anti-vibration system keeps vibration to a minimum with elastic suspension of the handles.

Wide range of accessories including Drill bits, chisels and spades with SDS+, SDS Max and Hex devices. Industry standard fitting for Fastener and all other professional machines.



Sealing between the box and the shield
Sealing with an O-ring between the gearbox and the motor housing for improved serviceability.



Percussion mechanism with increased impact energy
Safety clutch with improved reliability.

TECHNICAL DATA		6S0W	720	750	800	900	1050
Drilling capacity in: - concrete / steel / wood:	mm	22 / 13 / 30	24 / 13 / 30	24 / 13 / 30	26 / 13 / 30	26 / 13 / 30	28 / 13 / 30
- core bits in masonry up to:	mm	68	68	68	68	68	68
No load rpm:	min ⁻¹	0-1000	0-1050	0-900	0-1150	0-900	0-1000
Rated rpm:	min ⁻¹	0-700	0-840	0-830	0-830	0-830	0-920
No load impact rate:	min ⁻¹	0-4700	0-4800	0-4100	0-5200	0-4100	0-4700
Rated impact rate:	min ⁻¹	0-3300	0-3900	0-3850	0-3850	0-3850	0-4280
Impact energy (EPTA-Procedure 05/2009):	J	2.3	2.8	3.0	3.0	3.2	3.4
Max. torque:	Nm	52	60	60	65	73	82
Drill bit connection:		SDS+	SDS+	SDS+	SDS+	SDS+	SDS+
Chuck capacity:	mm	1.5-13	1.5-13	1.5-13	1.5-13	1.5-13	1.5-13
Journal diameter:	mm	43	43	43	43	43	43
Weight:	kg	2.7	2.8	2.9	2.8	2.9	2.9
Power input:	W	650 (230V-50Hz)	720 (230V-50Hz)	750 (230V-50Hz)	800 (110V-50Hz) 800 (230V-50Hz)	900 (230V-50Hz)	1010 (230V-50Hz)
Comes complete with: Carry case, Anti-vibration side handle, Depth gauge, Keyed chuck with adapter		12000040964	12000041064	12000041164	12000041264 (230V EU) 12021041164 (110V UK) 12020041164 (230V UK)	12000041364	12000041464

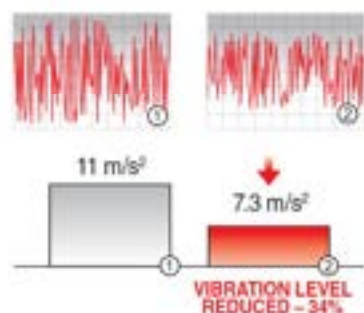
Pneumatic hammer mechanism
High efficiency due to computer optimization of the pneumatic hammer mechanism. Impact energy – 4.2J

Two mode settings:
Hammer drilling and chiseling.
A third mode setting – Drilling can be achieved by using a chuck with SDS+ adapter (Cat. № 20009480700)

Full vibro-insulation is achieved by: Elastic suspension of the rear and side handle to the gear box. The rear handle has a softgrip for added comfort and control.

Trigger switch
Soft start

Average value using tri-axis measurement with Standard side handle ① and new Fastener Anti-vibration side handle ② with BP 330CE



High reliability motor. Dust protected bearings

Electronic device with soft start, speed pre-selector and variable tacho-controlled constant electronics maintaining constant RPM regardless of the load

LED indicators:

- Overload indicator;
- 8 hour brush wear out indicator;
- Speed regulator position A – F;
- "High Power" mode - position G



HEAVYDUTY


Two mode settings


FE30CE HD PROFESSIONAL

- Rotary hammer class "4 kg" with SDS+
- Two mode settings: Hammer drilling and Chiseling
- Electronic speed pre-selection
- Unique "High Power" mode up to 4.2J
- Anti-vibration system on rear and side handle
- Safety clutch
- Magnesium alloy gearbox
- Auto-stop brushes
- Double insulation

- Constant electronics with soft start
- LED overload indicator
- LED 8 hour brush wear out indicator


Comes complete with: Carry case, Anti-vibration Auxiliary handle, Depth gauge, Tube of grease

TECHNICAL DATA		FE30CE
Drilling capacity in concrete / steel / wood:	mm	42/13/42
Core bits (TCT cutter only) in masonry up to:	mm	80
No load rpm:	min ⁻¹	380-690
No load rpm in "High Power":	min ⁻¹	
No load impact rate:	min ⁻¹	1640-2970
Impact rate in "High Power":	min ⁻¹	3230
Impact energy (EPTA-Procedure 05/2009):	J	3.3
Impact energy in "High Power" (EPTA-Procedure 05/2009):	J	4.2
Max. Torque:	Nm	60
Drill bit connection:		SDS+
Weight:	kg	3.9
Power input:	W	1050
Cat. №	12000050350 (230V EU); 12021050350 (110V UK); 12020050350 (230V UK)	



**Anti
Vibration**



Average value using tri-axis measurement with Standard side handle ① and new **Fastener** Anti-vibration side handle ② with BP 540CE *

1. Before fitting:



13.5 m/s²

2. After fitting:



9 m/s²

VIBRATION LEVEL
REDUCED - 35%



FE50 HD PROFESSIONAL

- Rotary hammer class "6 kg" with SDS Max
- Two mode settings: Hammer drilling and Chiselling
- Electronic speed pre-selection
- Constant electronics with soft start
- Unique "High Power" mode up to 8.7J
- Anti-vibration system on rear and side handle
- Safety clutch
- Magnesium alloy gearbox

- LED overload indicator
- LED 8 hour brush wear out indicator
- Auto-stop brushes
- Double insulation



Comes complete with: Carry case, Anti-vibration Auxiliary handle, Depth gauge, Tube of grease, Cloth

TECHNICAL DATA		FE50
Drilling capacity in concrete:	mm	40
Core bits (TCT cutter only) in masonry up to:	mm	90
No load rpm:	min ⁻¹	200-325
No load rpm in "High Power":	min ⁻¹	350
No load impact rate:	min ⁻¹	1900-3050
Impact rate in "High Power":	min ⁻¹	3300
Impact energy (EPTA-Procedure 05/2009):	J	7.6
Impact energy in "High Power" (EPTA-Procedure 05/2009):	J	8.7
Max. Torque:	Nm	95
Drill bit connection:		SDS Max
Weight:	kg	6
Power input:	W	W 1050
Cat. No	12000050152 (230V EU); 12021050152 (110V UK); 12020050152 (230V UK)	

HEAVYDUTY

EE50 HD PROFESSIONAL

TCT CORE DRILL BITS FOR SDS+ / SDS MAX DEVICES



- Tungsten carbide teeth and thin-wall construction for efficient drilling and reduced drag
- Allowing large holes to be drilled without machine overload
- For masonry, natural stone and limestone
- Use hammer action for faster drilling
- Pilot drill for easy alignment



- Rotary hammer class "8 kg" with SDS Max
- Two mode settings: Hammer drilling and Chiselling
- Electronic speed pre-selection
- Constant electronics with soft start
- High efficiency due to computer optimization of the pneumatic hammer mechanism
- Unique "High Power" mode up to 12J
- Anti-vibration system on rear and side handle
- Safety clutch
- LED overload indicator
- LED 8 hour brush wear out indicator
- Auto-stop brushes
- Double insulation

SDS Max to SDS+ Adapter



Anti-vibration system on rear handle
Two mode settings



Comes complete with:

Carry case, Anti-vibration auxiliary handle, Depth gauge, Tube of grease, Cloth

TECHNICAL DATA		EE50
Drilling capacity in concrete:	mm	52
Core bits (TCT cutter only) in masonry up to:	mm	140
No load rpm:	min ⁻¹	120-250
No load rpm in "High Power":	min ⁻¹	280
No load impact rate:	min ⁻¹	1170-2435
Impact rate in "High Power":	min ⁻¹	2800
Impact energy (EPTA-Procedure 05/2009):	J	10
Impact energy in "High Power" (EPTA-Procedure 05/2009):	J	12
Max. Torque:	Nm	140
Drill bit connection:		SDS Max
Weight:	kg	8
Power input:	W	W 2200
Cat. No		12000050652



K 306E HD PROFESSIONAL

LIGHT, COMPACT CHISELING HAMMERING

HEAVYDUTY



Comes complete with:
Carry case, Flat chisel, Point chisel



TECHNICAL DATA		K 300
No load impact rate (ipm):	min ⁻¹	0-3200
Impact energy (EPTA-Procedure 05/2009):		13
Tool holder	mm	SDS+
Chisel positions:		12
Weight:	Kg	3
Power input:	W	1000 W
Cat. Nr	12000060151 (230V EU); 12121060151 (110V UK); 12120060151 (230V UK)	



HEAVYDUTY

Anti
Vibration

K 615CE HD PROFESSIONAL



Anti-vibration system

LED overload indicator
LED 8 hour brush wear
out indicator

Chisel position lock

- Demolition/chiseling hammer
- Electronic impact rate pre-selection
- Constant electronics with soft start
- High performance pneumatic hammer mechanism
- 12 position chisel adjustment
- Lock-on switch
- D-side handle for added safety and control
- Anti-vibration system
- Magnesium alloy gearbox
- Auto-stop brushes
- Double insulation



SIDE haNDle



Comes complete with:

Carry case, D-side handle, Flat chisel, Point chisel, Grease tube, Cloth

TECHNICAL DATA		K 600
No load impact rate (ipm):	min ⁻¹	1900-3000
Impact energy (EPTA-Procedure 05/2009):	J	20
Tool holder		SDS Max
Chisel positions:		12
Weight:	kg	7
Power input:	W	W 1400
Cat. Nr		12000060752 (230V EU); 12021060752 (110V UK)

Pcs/Pack Cat. Nr

1 20009710000

Pneumatic high-performance hammer mechanism



K1000 PROFESSIONAL

- Ergonomic designed housing
- D-side handle for added safety and control
- Lock-on switch
- Metal housing and gearbox
- Auto-stop brushes
- Double insulation

PK 20 ①



K1500 PROFESSIONAL

- Anti-vibration Rear Handle



Comes complete with:

Carry case with rollers, Side handle, Tine chisel, Flat chisel, Oil tube, Hexagon keys 3, 5 and 6 mm, Special wrench, Screwdriver, Set of brushes

TECHNICAL DATA		K 1000
No load impact rate (ipm):	min ⁻¹	1400
Impact energy:	J	40
Tool holder/bit length:	mm	Ø 30 / 410
Weight:	kg	10
Power input:	W	2000
Cat. Nr		13000060252 (230V EU) 13021060252 (110V UK)

Comes complete with:

Carry case with rollers, Side handle, Tine chisel, Flat chisel, Grease tube, Hexagon keys 4, 5 and 6 mm, Special wrench 1 pc., Screwdriver, Set of brushes

TECHNICAL DATA		K 1500
No load impact rate (ipm):	min ⁻¹	1500
Impact energy:	J	50
Tool holder/bit length:	mm	Ø 28 / 410
Weight:	kg	15
Power input:	W	2400
Cat. Nr		13000060350 (230V EU) 13021060353 (110V UK)

Unique impact mode up to 60J

Anti
Vibration

K3000 PROFESSIONAL

HAND TROLLEYS

Designed for demolition hammers
K 1640, K 2050, K 3260

- Robust construction
- Anti-vibration system
- Pneumatic high-performance hammer mechanism
- Ergonomic designed housing and side handles
- Lock-on switch
- Metal housing and gearbox
- Auto-stop brushes
- Double insulation

PK 32 ②



Comes complete with:

Trolley PK 32, Tine chisel, Flat chisel, Grease tube,
Hexagon keys 5, 6, 8 and 12 mm, Special wrench, Set of brushes

TECHNICAL DATA			K 3260
No load impact rate (ipm):	min ⁻¹		950
Impact energy:	J		60
Tool holder/bit length:	mm		Ø 28 / 530
Weight:	kg		32
Power input:	W		2200 (230V-50Hz)
Cat. Nr			13000060454



Model	Pcs/Pack	Cat. Nr
① PK 20	1	20009701400
② PK 32	1	20009706200

WOOD DRILL BITS



Material: carbon steel 45.

Diameter x total length, mm

Pcs/Pack

Cat. Nr

Wood Auger Bits – designed for drilling deep smooth clean holes in wood. Screw point at the tip of bit provides better hole location and self feeds bit into wood for easier drilling.



6 x 230	1	20009360000
8 x 230	1	20009360100
10 x 230	1	20009360200
12 x 230	1	20009360500
14 x 460	1	20009360600
16 x 460	1	20009360700
18 x 460	1	20009360800
20 x 460	1	20009360900
22 x 460	1	20009361000
25 x 460	1	20009361100
28 x 460	1	20009361200
30 x 460	1	20009361300
32 x 460	1	20009361400
35 x 460	1	20009361500

Brad Point – also known as “W-point tip” it which allows the outside cutting edges of the drill to cut the diameter of the hole before the center breaks through. The sharp point of the spur simply pushes into the soft wood to keep the drill bit in line. This results in a very clean hole. Suitable for drilling in wood and plastics.



6 x 90	1	20009361600
8 x 110	1	20009361700



Diameter x total length, mm

Pcs/Pack

Cat. Nr

Wood drill bits Spade – expanded brad point tip with angle spurs for a cleaner hole. Used mainly for drilling large holes in wood. The bit will cut a clean and deep, flat bottomed holes. The single spur cuts and defines the edge of the hole while the chisel-like cutting edge removes the waste within the previously cut circle.

10 x 120	1	20009361800
10 x 150	1	20009440000
12 x 150	1	20009440200
14 x 150	1	20009440300
16 x 150	1	20009440400
18 x 150	1	20009440500
20 x 150	1	20009440600
22 x 150	1	20009440700
25 x 150	1	20009440100
30 x 150	1	20009440800
32 x 150	1	20009440900
35 x 150	1	20009441000
40 x 150	1	20009441100
45 x 150	1	20009441200
50 x 150	1	20009441300
55 x 150	1	20009441400

Spade bit set

14, 16, 18, 20, 22, 25, 30 mm; extension rod 300 mm, spanner	9	20009441514
Extension rod 300 mm	1	20009441600





METAL DRILL BITS



Made of premium high speed steel and are suitable for drilling in most types of materials, but are especially designed for drilling into metal.

Due to its increased hardness, the HSS (high speed steel) stands up to the high temperatures caused by metal drilling.

Material: HSS 9341

Diameter x total length, mm	Pcs/Pack	Cat. №
Standard version:		
		
1.5 x 40	2	20009280401
2.0 x 49	2	20009280501
2.5 x 57	2	20009280601
3.0 x 61	2	20009280701
3.2 x 65	2	20009280801
3.5 x 70	2	20009280901
4.0 x 75	1	20009280000
4.2 x 75	1	20009281000
4.5 x 80	1	20009281100
4.8 x 86	1	20009281200
5.0 x 86	1	20009281300
5.5 x 93	1	20009281400
6.0 x 93	1	20009280100
6.5 x 101	1	20009281500
8.0 x 117	1	20009280200
8.5 x 117	1	20009281600
9.0 x 125	1	20009281700
9.5 x 125	1	20009281800
10.0 x 133	1	20009280300
11.0 x 142	1	20009281900
12.0 x 151	1	20009282000
13.0 x 151	1	20009282100

Diameter x total length, mm	Pcs/Pack	Cat. №
Long version, DIN340:		
2.0 x 85	2	20009282201
2.5 x 95	2	20009282301
3.0 x 100	2	20009282401
3.2 x 106	2	20009282501
3.5 x 112	2	20009282601
4.0 x 119	1	20009282700
4.2 x 119	1	20009282800
4.5 x 126	1	20009282900
4.8 x 132	1	20009283000
5.0 x 132	1	20009283100
5.5 x 139	1	20009283200
6.0 x 139	1	20009283300
6.5 x 148	1	20009283400
8.0 x 165	1	20009283500
9.0 x 175	1	20009283600
10.0 x 184	1	20009283700

Cobalt - are made of solid cobalt alloyed high speed steel with high temperature and abrasion resistance (HSS 9341 - Co). They stay cooler than HSS bits and are suitable for drilling in high tensile steels like stainless steel, cast iron, cast steel, bronze and weld seams.



2.0 x 49	2	20009284001
2.5 x 57	2	20009284101
3.0 x 61	2	20009284201
3.2 x 65	2	20009284301
3.5 x 70	2	20009284401
4.0 x 75	1	20009284500
4.2 x 75	1	20009284600
4.5 x 80	1	20009284700
4.8 x 86	1	20009284800
5.0 x 86	1	20009284900
5.5 x 93	1	20009285000
6.0 x 93	1	20009285100
6.5 x 101	1	20009285200
8.0 x 117	1	20009285300
8.5 x 117	1	20009285400
9.0 x 125	1	20009285500
10.0 x 133	1	20009285600





Step Drill Bits



Step Drill Bits these bits are designed with the capacity to drill multiple hole sizes with one drill bit. The bit diameter of these bit types increases from the tip in specific increments following a stair-step profile – like a pyramid, each tier of the bit drills a hole with a different, larger diameter.

Application: drilling and enlarging holes in metal sheet and various other materials.



Material: HSS 4341

Size, mm	Steps	Step diameter, mm	Shank, mm	Total length, mm	Pcs/Pack	Cat. №
4-12	6	3/16"- 1/2", 6 STEPS, 1/4" SHANK	6	65	1	20009284200
4-20	9	1/4"-3/4", 9 STEPS, 3/8" SHANK	8	75	1	20009284300
4-30	10	1/4"-1-3/8", 10 STEPS, 3/8" SHANK	10	100	1	20009284400
4-30	12	3/16"-7/8", 12 STEPS, 3/8" SHANK	10	100	1	20009284500
4-30	13	1/8"-1-1/2", 13 STEPS, 1/4" SHANK	1/4"	100	1	20009284600



PREMIUM QUALITY

- Designed for professional use
- More efficient stock removal

Material: HSS M2

Size, mm	Steps	Step diameter, mm	Shank, mm	Total length, mm	Pcs/Pack	Cat. №
4-12	5	Ø 4/6/8/10/12	6	65	1	20008284200
4-20	9	Ø 4/6/8/10/12/14/ 16/18/20	8	75	1	20008284300
4-30	14	Ø 4/6/8/10/12/14/16/18/20/22/24/26/28/30	10	100	1	20008284400
Step Drill Bit Set						
4-12 mm, 4-20 mm, 4-30 mm					3	20008284714

Drill Bits for Ceramic



Fastener ceramic drill bits utilize durable hard carbide tip with best concentricity tolerance to provide professional results in drilling operations. High quality carbide tip prevents bit cracking and provide longer life-span.



Shank material: Carbon steel 45.
Tip material: Tungsten Carbide YG6X

Diameter x total length, mm	Pcs/Pack	Cat. №
4 x 70	1	20009920700
5 x 70	1	20009920800
6 x 80	1	20009920900
8 x 80	1	20009921000
10 x 90	1	20009921100
12 x 90	1	20009921200

Drill Bits for Glass



Fastener glass bits have a chromated surface and a spade-shaped carbide point with specially ground carbide tip. The thinned chisel edge facilitates precise drilling of pilot holes.



Shank material: Carbon steel 45.
Tip material: Tungsten Carbide YG6X

Diameter x total length, mm	Pcs/Pack	Cat. №
3 x 65	1	20009920000
4 x 65	1	20009920100
5 x 65	1	20009920200
6 x 65	1	20009920300
8 x 70	1	20009920400
10 x 80	1	20009920500
12 x 90	1	20009920600



DRILL BITS FOR USE WITH SDS+ DEVICES



DRILL BITS

Material: 40Cr, Carbide tip



- Designed for regular trade use in various types of materials
- Concrete, masonry, brick and stone
- Suitable for all rotary hammer drills with an SDS+ fitting



Diameter x total length, mm	Pcs/Pack	Cat. №
4 x 110	1	20009000000
6 x 110	1	20009000900
8 x 110	1	20009001000
10 x 110	1	20009001100
5 x 160	1	20009000100
6 x 160	1	20009000200
8 x 160	1	20009000300
10 x 160	1	20009000400
12 x 160	1	20009000500
6 x 210	1	20009001200
8 x 210	1	20009001300
10 x 210	1	20009001400
12 x 210	1	20009001500
16 x 210	1	20009001600
6.5 x 260	1	200090005100
8 x 260	1	20009001700
10 x 260	1	20009001800
12 x 260	1	20009001900
12 x 310	1	20009002000
14 x 310	1	20009002100
16 x 310	1	20009002200
18 x 310	1	20009002300
20 x 310	1	20009002400
12 x 350	1	20009002500
16 x 350	1	20009002600
18 x 350	1	20009002700
12 x 460	1	20009002800
14 x 460	1	20009002900
16 x 460	1	20009003000
18 x 460	1	20009003100
20 x 460	1	20009003200
22 x 460	1	20009003300
12 x 600	1	20009003400
14 x 600	1	20009003500
16 x 600	1	20009003600
18 x 600	1	20009003700
20 x 600	1	20009003800
22 x 600	1	20009003900
16 x 800	1	20009004000
18 x 800	1	20009004100
20 x 800	1	20009004200
22 x 800	1	20009004300
18 x 1000	1	20009004400
20 x 1000	1	20009004500
22 x 1000	1	20009004600

DRILL BITS 2S

Material: 40Cr, Carbide tip

HEAVY DUTY **PREMIUM QUALITY**



- Two tungsten carbide cutting edges for effective drilling
- Long service life
- Quiet, low vibration drilling for user protection
- High flexible drill shaft for added safety
- Special designed tips to ensure easy starting and centering
- Special hardening achieved by high-temperature soldering and shot-blasting technology

Diameter x total length, mm	Pcs/Pack	Cat. №
5 x 110	1	20008000000
6 x 110	1	20008000900
8 x 110	1	20008001000
10 x 110	1	20008001100
5 x 160	1	20008000100
6 x 160	1	20008000200
8 x 160	1	20008000300
10 x 160	1	20008000400
12 x 160	1	20008000500
6 x 210	1	20008001200
8 x 210	1	20008001300
10 x 260	1	20008001800

DRILL BITS 3S

HEAVY DUTY **PREMIUM QUALITY**



- Impeller cutting edge with 3 blades for highly efficient material removal
- Suitable for reinforced concrete and natural stone
- Extra long service life
- Triple spiral cutter for low vibration



Diameter x total length, mm	Pcs/Pack	Cat. №
5 x 110	1	20008005400
6 x 110	1	20008005500
8 x 110	1	20008005600
10 x 110	1	20008005700
5 x 160	1	20008005800
6 x 160	1	20008005900
8 x 160	1	20008006000
10 x 160	1	20008006100
12 x 160	1	20008006200
6 x 260	1	20008006300
8 x 260	1	20008006400
10 x 260	1	20008006500

DRILL BIT SETS

Diameter x length, mm	Pcs/Pack	Cat. №
① Metal box set:		
5, 6, 8 x 110; 6, 8, 10, 12 x 160	7	20009004814
② Plastic cassette:		
6, 8 x 110; 6, 8, 10 x 160	5	20009004714



DRILL BITS FOR USE WITH SDS Max DEVICES



DRILL BITS

Material: 40Cr, Carbide tip



- Designed for regular trade use in various types of materials
- Concrete, masonry, brick and stone
- Symmetrical head design of the main and auxiliary cutters
- Additional auxiliary cutters protect the drill bit on contact with steel reinforcement
- Suitable for all rotary hammer drills with an SDS Max fitting



Diameter x total length, mm	Pcs/Pack	Cat. №
16 x 370	1	20009100600
18 x 370	1	20009100700
20 x 370	1	20009100800
22 x 370	1	20009100900
28 x 370	1	20009101000
16 x 570	1	20009101100
18 x 570	1	20009101200
20 x 570	1	20009101300
22 x 570	1	20009101400
24 x 570	1	20009101500
28 x 570	1	20009101600
30 x 570	1	20009101700
32 x 570	1	20009101800
34 x 570	1	20009101900
28 x 690	1	20009102000
30 x 690	1	20009102100
35 x 690	1	20009102200
20 x 920	1	20009102300
22 x 920	1	20009102400
25 x 920	1	20009102500
28 x 920	1	20009102600
30 x 920	1	20009102700
32 x 920	1	20009102800
35 x 920	1	20009102900
38 x 920	1	20009103000
40 x 920	1	20009103100
22 x 1320	1	20009103200
25 x 1320	1	20009103300
32 x 1320	1	20009103400

DRILL BITS 2S

HEAVY DUTY PREMIUM QUALITY



- Two tungsten carbide cutting edges for effective drilling
- Long service life
- Broad spiral shape ensures good drilling progress
- Quiet, low vibration drilling for user protection
- High flexible drill shaft for added safety
- Special designed tips to ensure easy starting and centering
- Special hardening achieved by high-temperature soldering and shot-blasting technology

Diameter x total length, mm	Pcs/Pack	Cat. №
16 x 340	1	20008100600
16 x 540	1	20008101100
18 x 540	1	20008101200
20 x 520	1	20008101300
22 x 520	1	20008101400
24 x 520	1	20008101500
28 x 520	1	20008101600
20 x 920	1	20008102300
25 x 920	1	20008102500
30 x 520	1	20008102100
35 x 520	1	20008102900

DRILL BITS 3S

HEAVY DUTY PREMIUM QUALITY



- Impeller cutting edge with 3 blades for highly efficient material removal
- Suitable for reinforced concrete and natural stone
- Extra long service life
- Triple spiral cutter for low vibration



Diameter x total length, mm	Pcs/Pack	Cat. №
16x340	1	20008103500
16x540	1	20008103600
18x540	1	20008103700
20x520	1	20008103800
22x520	1	20008103900
24x520	1	20008104000
28x520	1	20008104100
30x720	1	20008104200
20x920	1	20008104300
25x920	1	20008104400
35x720	1	20008104500





KEYED CHUCK WITH ADAPTER FOR SDS+ DEVICES



Item	Chuck capacity	Used with	Pcs/Pack	Cat. №
① Chuck with SDS+ adapter	1.5–13 mm	All rotary hammers with SDS+ drill bit connection	1	20009480700
② SDS+ adapter only	–	Standard chucks	1	20009480600

SDS Max TO SDS+ ADAPTER



SDS Max to SDS+ ADAPTER	Used with	Pcs/Pack	Cat. №
	All rotary hammers with SDS Max drill bit connection	1	20009181500

CHISELS FOR USE WITH SDS+ DEVICES

Material: 45SiCrV6

- Designed for regular trade use in various types of materials
- Concrete, masonry, brick and stone
- Suitable for all rotary hammer drills with an SDS+ fitting



Type	Width x total length, mm	Pcs/Pack	Cat. №
① Point Chisel	250	1	20009080000
② Flat Chisel	20 x 250	1	20009080100
③ Spade Chisel	40 x 250	1	20009080200
④ Grooving Chisel	22 x 250	1	20009080300
⑤ Tile Chisel (angled)	40 x 250	1	20009080400

HEAVY DUTY **PREMIUM QUALITY**

- Very effective power transmission due to the improved chisel hardness: less force is lost on the way from the machine to the work piece
- Regrinding of chisels is possible
- High Durability compared to a standard chisel: up to 30% more efficiency, compared to other chisels



Type	Width x total length, mm	Pcs/Pack	Cat. №
① Point Chisel	250	1	20008080000
② Flat Chisel	20 x 250	1	20008080100
③ Spade Chisel	40 x 250	1	20008080200
④ Grooving Chisel	22 x 250	1	20008080300
⑤ Tile Chisel (angled)	40 x 250	1	20008080400



CHISELS FOR USE WITH SDS MAX DEVICES



Material: 45SiCrV6

- Designed for regular trade use in various types of materials
- Concrete, masonry, brick and stone
- Suitable for all rotary hammer drills with an SDS Max fitting



Type	Diameter x total length, mm	Pcs/Pack	Cat. №
① Point Chisel	280	1	20009180000
① Point Chisel	400	1	20009180800
② Flat Chisel	25 x 280	1	20009180100
② Flat Chisel	25 x 400	1	20009180900
③ Spade Chisel	40 x 280	1	20009180200
③ Spade Chisel	40 x 400	1	20009181000
④ Spade Chisel (angled)	40 x 280	1	20009180300
⑤ Grooving Chisel	25 x 400	1	20009181100

HEAVY DUTY **PREMIUM QUALITY**

- Carbide tipped cutting edge that stays sharper longer
- Sandblasted finishing strengthens the body of the drill bit in surface and guarantees good flexibility
- Strengthened drill bit body reduces vibrations during drilling
- Advanced chiseling process with controlled dust removal



Type	Diameter x total length, mm	Pcs/Pack	Cat. №
① Point Chisel	280	1	20008181200
① Point Chisel	400	1	20008180800
② Flat Chisel	25 x 280	1	20008181300
② Flat Chisel	25 x 400	1	20008180900
③ Spade Chisel (angled)	80 x 300	1	20008180600
④ Grooving Chisel	32 x 300	1	20008180700

TCT CORE DRILL BITS FOR SDS+ DEVICES



Can be used with SDS Max machines with available adapter

Type	Size	Pcs/Pack	Cat. №
① Core drill	Ø65 x 65 mm	1	20009490800
② Core drill	Ø68 x 65 mm	1	20009490900
③ Core drill	Ø80 x 65 mm	1	20009491000

ANTI-VIBRATION HANDLES



Type	Used with	Pcs/Pack	Cat. №
① Aluminium clamp	BPR 220E, BPR 240E, BPR 240CE, BPR 260E, BPR 260CE, BPR 261E, BPR 280CE	1	20009681700
② Extension bar (32.4 mm long)	BPR 220E, BPR 240E, BPR 240CE, BPR 260E, BPR 260CE, BPR 261E, BPR 280CE with M14/L12 thread	1	20009681800
③ Anti-vibration side handle	BPR 220E, BPR 240E, BPR 240CE, BPR 260E, BPR 260CE, BPR 261E, BPR 280CE with M14/L12 thread	1	20009682200
④ Anti-vibration side handle	BP 330CE, BP 540CE and BP 750CE with M8/L30 thread	1	20009682400

These tools are used in a broad range of applications including road construction, pavement work, bridge construction, utility installation, demolition and a variety of maintenance functions.

Made of toughened steel with special surface treatment that improves performance by adding more wear resistance, which extends the life of the tool.

- ① **Tine Chisels:** Starting holes in concrete slabs, general chipping and breaking
- ② **Flat Chisels:** General chipping and breaking in Concrete and Masonry
- ③ **Spade Chisels:** Removing Tiles, Flooring and Other Materials
- ④ **Groove Chisel:** Cutting Narrow Channels in Concrete
- ⑤ **Tine Spades:** Clay and Other Rock-Free Soil Cutting
- ⑦ **Square Spades:** Used for digging in soil/clay and hard-packed gravel
- ⑧ **Large Flat Spades:** For Asphalt, Clay and compacted Soil
- ⑨ **Tamping Plates:** Tamping down and compacting materials quickly
- ⑩ **Bush Hammers:** For removing excess Concrete and Asphalt



Used with K 512. Connection type: 17 HEX

Type	Width x total length, mm	Pcs/Pack	Cat. №
① Tine Chisel	280	1	20009461200
② Flat Chisel	25 x 280	1	20009461300
③ Spade Chisel	50 x 280	1	20009461400
④ Groove Chisel	280	1	20009461600
⑤ 4 pcs. Set	280	4	20009461714
⑥ Tine Spade	106 x 500	1	20009461500

Used with K 1640. Connection type: 30 HEX

Type	Width x total length, mm	Pcs/Pack	Cat. №
① Tine Chisel	410	1	20009460000
② Flat Chisel	40 x 410	1	20009460100
③ Spade Chisel	50 x 410	1	20009460200
④ Groove Chisel	410	1	20009460300
⑤ 4 pcs. Set	410	4	20009460403
⑥ Tine Spade	135 x 410	1	20009460500
⑦ Square Spade	110 x 410	1	20009460600
⑧ Large flat spade with 30 Hex shank	170 x 150	1	20009460700
⑨ Tamping plate with 30 Hex shank	150 x 150	1	20009460800
⑩ Bush hammer head with 30 Hex shank	60 x 60	1	20009460900

Used with K 2050 and K 3260. Connection type: 28 HEX

Type	Width x total length, mm	Pcs/Pack	Cat. №
① Tine Chisel	410	1	20009465000
② Flat Chisel	35 x 410	1	20009465100
③ Spade Chisel	50 x 410	1	20009465200
④ Groove Chisel	410	1	20009465300
⑤ 4 pcs. Set	410	4	20009465403
⑥ Tine Spade	135 x 410	1	20009465500
⑦ Square Spade	110 x 410	1	20009465600
⑧ Large flat spade with 28 Hex shank	170 x 150	1	20009465700
⑨ Tamping plate with 28 Hex shank	150 x 150	1	20009465800
⑩ Bush hammer head with 28 Hex shank	60 x 60	1	20009465900

Used with K 3260. Connection type: 28 HEX

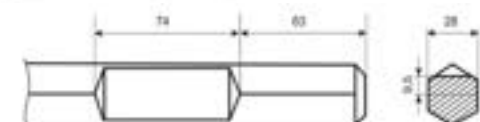
Type	Width x total length, mm	Pcs/Pack	Cat. №
① Tine chisel	530	1	20009461000
② Flat chisel	35 x 530	1	20009461100

Connection types:

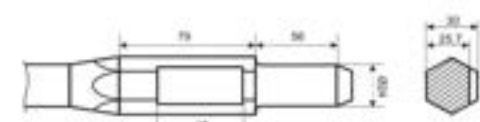
17 HEX



28 HEX



30 HEX



HS Bi-Metal Hole Saws


Product Code	Hole saw Diameter (mm)
TBMHS14	14
TBMHS16	16
TBMHS17	17
TBMHS19	19
TBMHS20	20
TBMHS21	21
TBMHS24	24
TBMHS25	25
TBMHS27	27
TBMHS28	28
TBMHS29	29
TBMHS30	30
TBMHS32	32
TBMHS33	33
TBMHS35	35
TBMHS37	37
TBMHS38	38
TBMHS40	40
TBMHS41	41
TBMHS43	43
TBMHS44	44
TBMHS46	46
TBMHS48	48
TBMHS51	51

Product Code	Hole saw Diameter (mm)
TBMHS52	52
TBMHS54	54
TBMHS57	57
TBMHS59	59
TBMHS64	64
TBMHS65	65
TBMHS67	67
TBMHS68	68
TBMHS70	70
TBMHS73	73
TBMHS76	76
TBMHS79	79
TBMHS83	83
TBMHS89	89
TBMHS92	92
TBMHS95	95
TBMHS98	98
TBMHS102	102
TBMHS111	111
TBMHS114	114
TBMHS121	121
TBMHS127	127
TBMHS140	140
TBMHS152	152

HSC Bi-Metal Hole Saw Accessories


Product Code	Description	Product Description of application	Description
TBMHS75D	mm 75 x 1/4 Pilot Drill Ø1	all chucks	Chuck Clamping
TBMHS104D	mm 104 x 1/4 Pilot Drill Ø1	all chucks	Chuck Clamping
TBMHSA5D61	1 SDS Plus chuck type	mm 30 - 14 Hole saw diameters	SDS Plus Chuck
TBMHSA5D62	2 SDS Plus chuck type	mm 152 - 32 Hole saw diameters	SDS Plus Chuck
TBMHS64HEX	mm Diameter Cylindrical Chuck 6.4	mm 30 - 14 Hole saw diameters	Chuck Clamping
TBMHS95HEX	9.5mm Hex Shank A1	mm 30 - 14 Hole saw diameters	Chuck Clamping
TBMHS11HEX	mm Hex Shank 12.1 A2	mm 152 - 32 Hole saw diameters	Chuck Clamping

Electricians and Plumbers Kits


Product Code	Description of system
TBMHS01P	mm, Hexagonal handle 19,22,28,38,44,57 Kit for electricians, containing and Adapter 1 A2 A1
TBMHS01E	mm, Hexagonal Handle 22,28,35,44,51,64 Hydraulic kit, containing and Adapter 1 A2 A1

**Anti
Vibration**

HEAVYDUTY



Dual left/right connection
of water/air feed pipe



Cat. No.	13000130	13000160	13000180	13000200	13000230	13000250	13000300	13000350	13000400	13000600
Product Model	FCM-1300	FCM-1600	FCM-1800	FCM-2000	FCM-2300	FCM-2500	FCM-3000	FCM-3500	FCM-4000	FCM-5000
Drill Range	15-130mm	15-160mm	15-130mm	15-200mm	15-230mm	15-250mm	15-300mm	15-350mm	15-400mm	15-500mm
Rated Voltage	110/220 V	110/220 V	110/220 V	110/220 V	110/220 V	110/220 V	110/220 V	110/220 V	110/220 V	110/220 V
Rated Frequency	50-60Hz	50-60Hz	50-60Hz	50-60Hz	50-60Hz	50-60Hz	50-60Hz	50-60Hz	50-60Hz	50-60Hz
Rated Input Power	1500W	3200W	3980W	4180W	4380W	4580W	4780W	4980W	5180W	5680W
No-load Speed	900 r/min	800 r/min	780 r/min	750 r/min	680 r/min	650 r/min	630 r/min	600 r/min	550 r/min	500 r/min



DIAMOND CORE DRILL SET

Suitable for brick and masonry

A core drill is a drill specifically designed to remove a cylinder of material.

Diamond core drill bits are commonly used in construction to create holes for pipes and other large diameter holes in concrete or masonry.

They are suitable for all popular building materials such as, cement, masonry, standard house bricks, concrete blocks, breeze blocks, hand made bricks, building blocks and ceramics.



Fastener Diamond Core Bit



► For masonry, brick, concrete, grout with light or medium steel reinforcing.



Item Number	Outer Diameter		Front	Middle	Segment No.
	Inch	Metric(mm)			
3001294	1"	25	70	230/280	Connect
3001295	2"	52	70	150	Connect
3001296	2.8"	72	70	150	5
3001297	3.2"	82	70	150	5
3001298	3.5"	91	70	150	5
3001299	4"	102	70	150	5
3001300	4.2"	107	70	150	5
3001301	5"	127	70	150	6
3001302	6"	152	70	150	7
3001303	6.3"	162	70	150	7
3001304	6.7"	172	70	150	8
3001305	7"	182	70	150	8
3001306	7.5"	192	70	150	9
3001307	7.8"	200	70	150	9
3001308	8.3"	212	70	150	10
3001309	10"	252	70	150	12
3001310	12"	300	70	150	14
3001311	14"	350	70	150	16



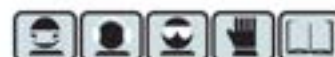
► For masonry, brick, concrete, grout with light or medium steel reinforcing.



Item Number	Outer Diameter		Middle	Segment No.
	Inch	Metric(mm)		
3001312	0.3"	9	70/100	Connect
3001313	0.43"	10	70/100	Connect
3001314	0.44"	12	70/100	Connect
3001315	0.45"	16	70/100	Connect
3001316	0.46"	18	70/100	Connect
3001317	0.47"	20	70/100	Connect
3001318	0.48"	22	70/100	Connect
3001319	0.49"	26	70/100	Connect
3001320	0.5"	28	70/100	Connect/3
3001321	0.52"	32	70/100	Connect/3
3001322	0.54"	38	70/100	Connect/4

Fastener Diamond Core Bit

► For masonry, brick, concrete, grante with light or medium steel reinforcing.



Item Number	Outer Diameter		Front	Middle	Segment No.
	Inch	Metric(mm)			
3001323	1"	25	70	230/280	Connect
3001324	2"	52	70	150	Connect
3001325	2.8"	72	70	150	5
3001326	3.2"	82	70	150	5
3001327	3.5"	91	70	150	5
3001328	4"	102	70	150	5
3001329	4.2"	107	70	150	5
3001330	5"	127	70	150	6
3001331	6"	152	70	150	7
3001332	6.3"	162	70	150	7
3001333	6.7"	172	70	150	8
3001334	7"	182	70	150	8
3001335	7.5"	192	70	150	9
3001336	7.8"	200	70	150	9
3001337	8.3"	212	70	150	10
3001338	10"	252	70	150	12
3001339	12"	300	70	150	14
3001340	14"	350	70	150	16

► For masonry, brick, concrete, grante with light or medium steel reinforcing.



Item Number	Outer Diameter		Middle	Segment No.
	Inch	Metric(mm)		
3001341	0.3"	9	70/100	Connect
3001342	0.43"	10	70/100	Connect
3001343	0.44"	12	70/100	Connect
3001344	0.45"	16	70/100	Connect
3001345	0.46"	18	70/100	Connect
3001346	0.47"	20	70/100	Connect
3001347	0.48"	22	70/100	Connect
3001348	0.49"	26	70/100	Connect
3001349	0.5"	28	70/100	Connect/3
3001350	0.52"	32	70/100	Connect/3
3001351	0.54"	38	70/100	Connect/4

DIAMOND CORE DRILL BITS



Attention: Only use core drills on machines fitted with a safety clutch!

 	Type	Size	Pcs/Pack	Cat. Nr
	Core drill	Ø52 x 450 mm	1	20009490400
	Core drill	Ø78 x 450 mm	1	20009490300
	Core drill	Ø152 x 450 mm	1	20009490200
	Core drill	Ø160 x 450 mm	1	20009490100
	Core drill	Ø202 x 450 mm	1	20009490500
	Pilot drill bit	Ø10 x 200 mm	1	20009490600
	Hex adapter		1	20009491100
Core Bit in All Sizes Available - Core drill bits: - Ø107 x 150 mm - Ø52 x 150 mm - Ø28 x 300 mm - Hex adapter Ø12 x 88 mm - Extension bar Ø25 x 200 mm - Pilot drill bit Ø10 x 200 mm - Drift key 8 x 69 mm			7	20009490014

VICE STAND - CE 60

- Fixing clamp capacity: 53 mm
- Fixing clamp depth: 35 mm
- Jaw width: 76 mm
- Jaw capacity: 58 mm
- Weight: 0.79 kg



Pcs/Pack	Cat. Nr
1	20009700900

VICE - CE 100

- For stable clamping of the work piece in drill stand SP 43
- Jaw width: 100 mm
- Jaw capacity: 100 mm
- Clamping size: 125 mm
- Weight: 1.5 kg



Pcs/Pack	Cat. Nr
1	20009680900

DRILL STAND - SP 50

- Bracket capacity: Ø50 mm
- Jaw capacity: 55 mm
- Throat depth: 30 mm
- Weight: 0.5 kg



Pcs/Pack	Cat. Nr
1	20009706600

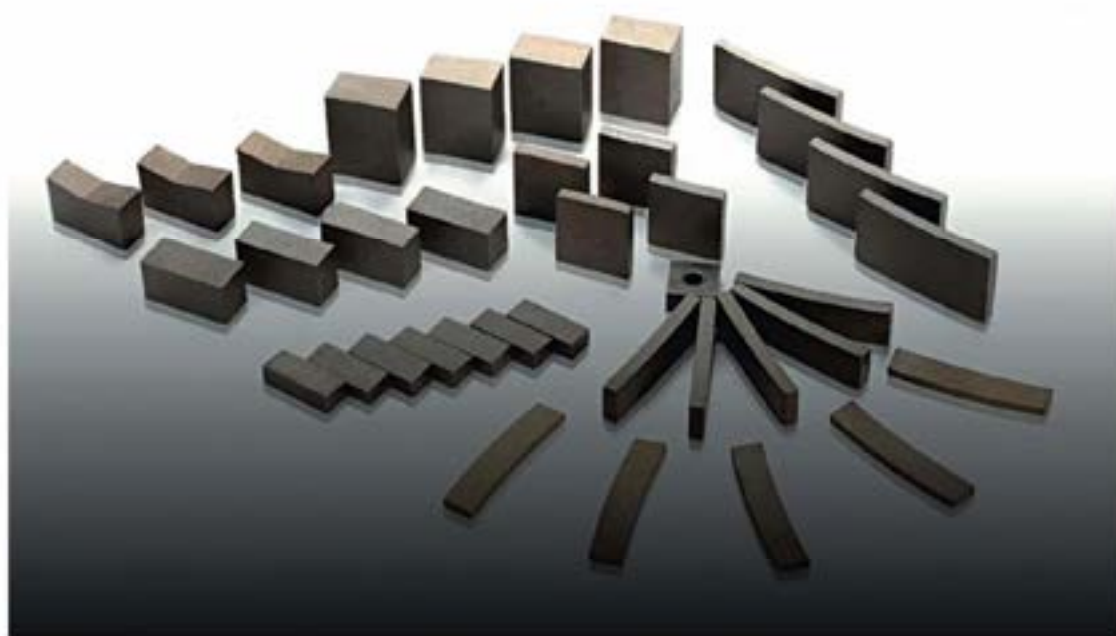
DRILL STAND - SP 43

- Stable performance with cast-iron table
- For all drill types with 43 mm attachment journal, weight up to 3kg and power input up to 1010 W
- Operating stroke when drilling: 70 mm
- Distance between the drill bit axis: 125 mm
- Table dimensions: 160x160 mm
- Height: 550 mm
- Weight: 6 kg



Pcs/Pack	Cat. Nr
1	20009681000

Fastener Diamond Segments



Fastener Segments For Big Blades

► Diamond blade segments is suitable for cutting granite, marble and concrete etc.

Item Number	Diameter(D)		Length (mm)	Width (mm)	Height (mm)	No. of seg.
	Inch	Metric (mm)				
3001352	14	350	40	3.2	8/10	24
3001353	16	400	40	3.4	8/10	28
3001354	18	450	40	4.0	8/10	32
3001355	20	500	40	4.0	8/10	36
3001356	24	600	40	4.2	8/10	42
3001357	28	700	40	4.8	8/10	50
3001358	32	800	40	6.0	8/10	48
3001359	36	900	24	6.5	10/12	64
3001360	40	1000	24	7.5	10/12	70
3001361	48	1200	24	8.0	10/12	80
3001362	60	1500	24	9.0	10/12	100
3001363	64	1600	24	9.0	10/12	108
3001364	80	2000	24	10.0	20	128
3001365	120	3000	24	13.0	20	160

Fastener Segments For Core Bits

► Diamond segments for core bits is suitable for drilling granite, marble and concrete etc.

Item Number	Diameter(D)		Length (mm)	Width (mm)	Height (mm)	No. of seg.
	Inch	Metric (mm)				
3001366	1"	25	17	3.0	7	3
3001367	1-1/4"	32	17	3.0	7	3
3001368	1-1/2"	38	17	3.0	7	4
3001369	2"	50	24	3.5	7	5
3001370	2-1/2"	63	24	3.5	7	6
3001371	3"	75	24	3.5	7	7
3001372	3-1/2"	89	24	3.5	7	8
3001373	4"	100	24	4.0	7	9
3001374	4-1/2"	115	24	4.0	7	10
3001375	5"	125	24	4.0	7	10
3001376	6"	150	24	4.0	7	12
3001377	7"	180	24	4.0	7	14
3001378	8"	200	24	4.5	7	16
3001379	9"	230	24	4.5	7	18
3001380	10"	250	24	4.5	7	20
3001381	12"	300	24	5.0	7	22
3001382	14"	350	24	5.0	7	24





Grinding & Cutting

The Power in your hands

		Abrasive Discs					Carbide
							
		A30 R BF A30 S BF	A40 S BF41 A36 S BF41	A24 R BF	C30 S BF	C24 R BF	Flat / Round
	SMALL ANGLE GRINDERS 750 + 1400W 125 mm	cutting 	cutting 	grinding 	cutting 	grinding 	 
	MEDIUM ANGLE GRINDERS 1010 + 1600W 125 / 150 mm	cutting 	cutting 	grinding 	cutting 	grinding 	 
	LARGE ANGLE GRINDERS 2000 + 2600W 180 / 230 mm	cutting 	cutting 	grinding 	cutting 	grinding 	  
	CONCRETE GRINDERS / PLANERS 1400 + 2600W 127 / 152.4 / 177.8 mm						
	WALL CHASERS 1010 + 2600W 125 / 230 mm						
	BENCH GRINDERS 150 + 900W 125 / 150 / 175 / 200 mm						



The **Fastener** range of grinders offers three different body types, short, medium and long bodied, covering from 750 to 2600W and disc sizes 115mm-125mm-150mm-180mm-230mm. All grinders have a light and robust magnesium alloy gearbox and milled, case hardened gears from our own production.

New: HD Professional Range

The new range incorporates new Heavy Duty, extended life protected motors, increasing the units expected life before repair by over 60%. All new **Fastener** grinders now also feature EU

compliant anti-burst and anti-rotation blade guards to further protect the user.

The new Anti-vibration side handles incorporate thermoplastic elastomers and special ergonomic shaping to reduce vibration by up to 45%.

Wide range of accessories including Grinding and Cutting discs, diamond discs and cup wheels. Industry standard fitting for **Fastener** and all other professional machines.

Abrasive Flap Discs		Diamond Cup Wheels			Diamond Blades					Wheels
Aluminium Oxide	Zirconium Oxide	Double row	Swift Cup Wheel	Cup Wheel Heavy Duty	General Purpose	Wave Segments	Hot-Pressed	Laser Welded	Turbo segments	A 36 NV

Fastener

PROFESSIONAL

HD PROFESSIONAL

SMALL ANGLE GRINDERS - TECHNOLOGY HIGHLIGHTS

The optimized ventilation in conjunction with the specially designed internal diffuser enables lower working temperatures by up to 30% for higher performance and reliability



Spindle lock button for convenient disc replacement

New design of the gear box made by light and strong magnesium alloy



Improved spindle construction protecting the front bearing from metal and other dust. A common reason for machine failure

Safety switch with lock on function. Autostart protection against mains drop-out (selected models)



Powder coated rotor and stator for efficient dust protection provides reliable operation in heavy dust environments

New

Soft start and electronic speed pre-selection (selected models)



New

- Improved insulation and connection of stator terminals for added dust resistance and safety of the motor
- New brush holder unit – avoids dust retention and brush blockage
- Auto-stop brushes

Anti Vibration

2-position Anti-vibration side handle

Compact body, powerful motor

HEAVYDUTY**New****M 750 HD Compact HD PROFESSIONAL**

- Full dust protection for an extended tool life
- Ergonomically designed slimmer motor housing
- New compact, high performance motor
- Optimum motor cooling for extended tool life
- Magnesium alloy gearbox
- Dust sealed bearings with protection cap
- Non-burst, anti-rotation safety guard
- Spindle lock button for disc replacement
- Safety switch with lock on function
- 2-position side handle

M 750E HD Compact HD PROFESSIONAL

- Electronic speed pre-selection

**Comes complete with:**

125 mm Safety guard for grinding, Side handle, Support washer, Lock nut, Lock nut spanner

TECHNICAL DATA		M 750 HD Compact
Disc diameter:	mm	125
No load rpm:	min ⁻¹	10500
Spindle thread:		M14
Spindle thread length:	mm	20
Weight:	kg	1.8
Power input:	W	750 (230V-50Hz)
Cat. No		12000073111

TECHNICAL DATA		M 750E HD Compact
Disc diameter:	mm	125
No load rpm:	min ⁻¹	3500-10500
Spindle thread:		M14
Spindle thread length:	mm	20
Weight:	kg	1.9
Power input:	W	750 (230V-50Hz)
Cat. No		12000073211



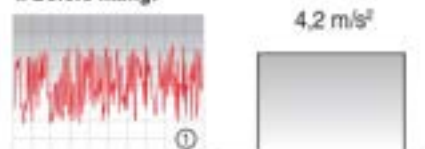
TOOL LESS, NON-BURST, ANTI-ROTATION
SAFETY GUARD

HEAVYDUTY



Average value using tri-axe measurement with Standard side handle ① and new Fastener Anti-vibration side handle ② with Angle Grinder M 1200E Plus HD

1. Before fitting:



2. After fitting:



HD PROFESSIONAL

Comes complete with:

125 mm Safety guard for grinding, Anti-vibration side handle, Support washer, Lock nut, Lock nut spanner

► 1050 W (230V-50Hz); (110V-50Hz)

TECHNICAL DATA	M 1050 HD	M 1050E HD
Disc diameter:	mm 125	125
No load rpm:	min ⁻¹ 10000	3000-10000
Spindle thread:	M14	M14
Weight:	kg 2.3	2.4
Power input:	W 1050 (110V-50Hz), (230V-50Hz)	1050 (230V-50Hz)
Cat. No	12000070912 (220V EU) 12021070912 (110V UK) 12020070912 (230V UK)	12000071012 (220V EU)
OPTIONS:	Cat No	Cat No
- Carry case	12000070967 (220V EU)	12000071067 (220V EU)

► 1200 W (230V-50Hz)

TECHNICAL DATA	M 1200 HD	M 1200E Plus HD	M 1200CES HD
Disc diameter:	mm 125	125	125
No load rpm:	min ⁻¹ 10500	2700-10500	2700-10500
Spindle thread:	M14	M14	M14
Weight:	kg 2.4	2.4	2.4
Power input:	W 1200	1200	1200
Cat. No	12000071112	12000071612	12000071712
OPTIONS:	Cat No	Cat No	Cat No
- Carry case	12000071167	12000071867	12000071767

► 1400 W (230V-50Hz)

TECHNICAL DATA	M 1400CS Plus HD	M 1400CES HD	M 1400CES Plus HD	SM 1470CES Plus HD
Disc diameter:	mm 125	125	125	125
No load rpm:	min ⁻¹ 10500	2700-10500	2700-10500	2000-7000
Spindle thread:	M14	M14	M14	M14
Weight:	kg 2.4	2.4	2.4	2.4
Power input:	W 1400	1400	1400	1400
Cat. No	12000072912	12000071812	12000071912	12000221910
OPTIONS:	Cat No	Cat No	Cat No	Cat No
- Carry case	-	12000071867	12000071967	-

ANGLE GRINDER FOR
STAINLESS STEEL
SM 1470CES Plus HD



- Perfect for grinding and cutting of **stainless steel/inox** as well as metal and stone
- Special gearbox for high torque in medium and low speed range. Prevents blue discolouration and distortion due to heat build up

Compatible accessories with disc diameter up to 125 mm

- Cutting and grinding discs for **INOX**, metal and stone
- Wire wheel brushes for **INOX**
- Abrasive Flap discs

NON-BURST, ANTI-ROTATION
SAFETY GUARD

HEAVYDUTY

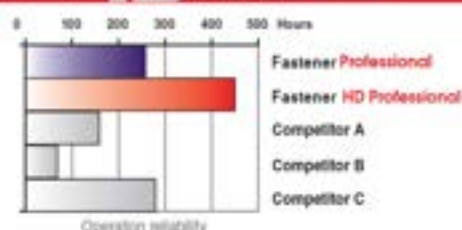


M 750 HD	●	○	○	○	○	○	○	○
M 750E HD	●	●	○	○	○	○	○	○
M 850 HD	●	○	○	○	○	○	○	○
M 850E HD	●	●	○	○	○	○	○	○
M 1050 HD	●	○	○	○	○	○	○	○
M 1050E HD	●	●	○	○	○	○	○	○
M 1200 HD	●	○	○	○	○	○	○	○
M 1200E Plus HD	●	●	○	○	○	○	○	○
M 1200CES HD	●	●	○	○	○	○	○	○
M 1400CS Plus HD	●	○	○	○	○	○	○	○
M 1400CES HD	●	●	○	○	○	○	○	○
M 1400CES Plus HD	●	●	○	○	○	○	○	○
SM 1470CES Plus HD	●	●	○	○	○	○	○	○

HD PROFESSIONAL

- Full dust protection for an extended tool life
- High performance motor
- Optimum motor cooling for extended tool life
- Magnesium alloy gearbox
- Dust sealed bearings with protection cap
- Non-burst, anti-rotation safety guard
- Electronic speed pre-selection (Index E, E Plus, CES, CES Plus)
- Constant electronics to maintain constant speed under load (Index CES)
- Soft start with restriction of starting current (Index E, E Plus, CES, CES Plus)
- Overload safety cut out in the event of the disc being pinched or snagged (Index CES, CES Plus)
- Thermal overload protection (CES Plus)
- Anti-vibration side handle
- High torque
- Safety switch with lock on function
- Safety restart cut-out (Index E Plus, CES, CES Plus)
- 4m rubber cable
- Auto-stop brushes

HD PROFESSIONAL



Considering the requirements and demands of industry, we have developed a new **HEAVY DUTY** line of Angle grinders with great reliability, built to sustain even the toughest working conditions.

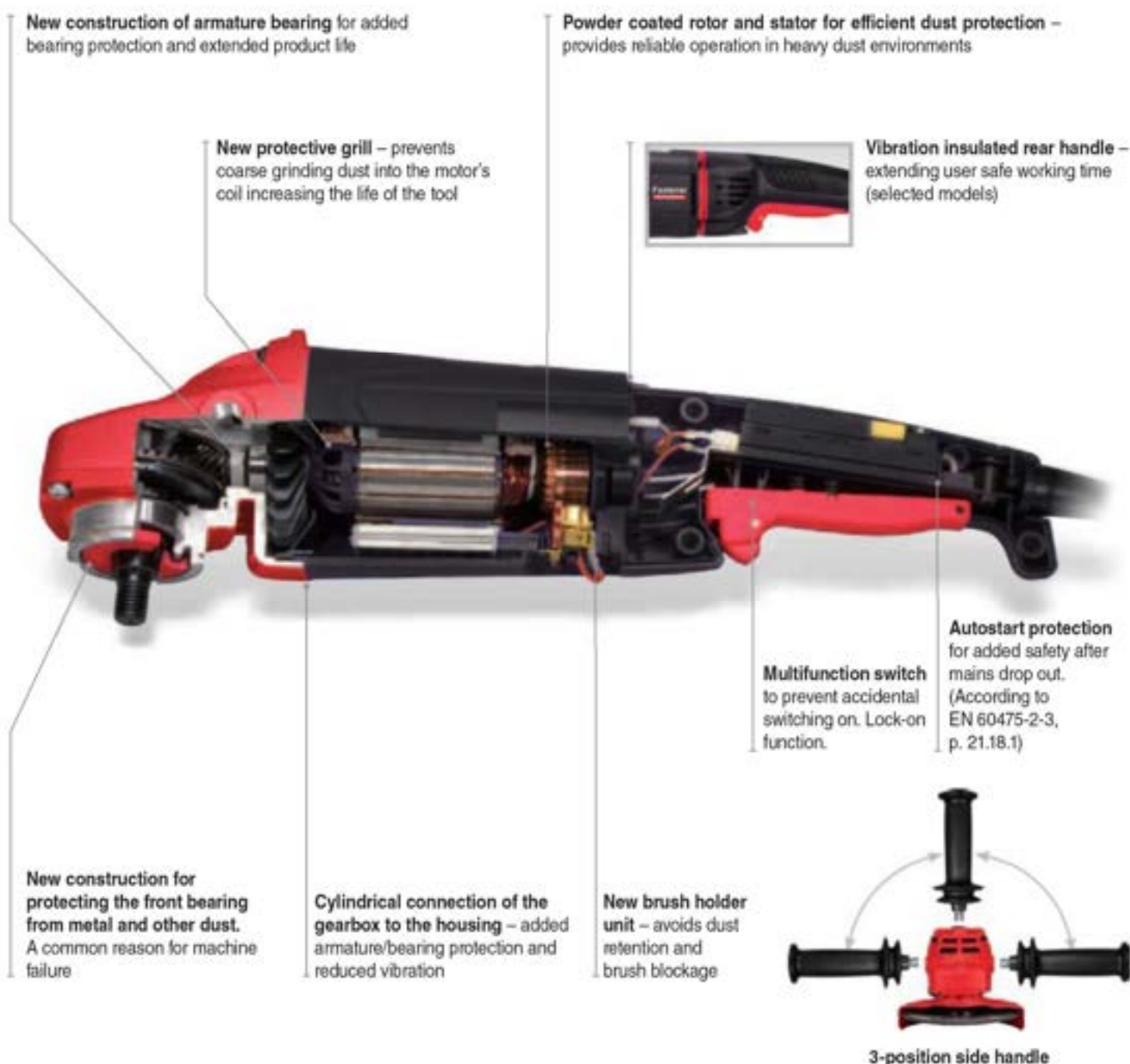
Comes complete with:

125 mm Safety guard for grinding, Side handle, Support washer, Lock nut, Lock nut spanner

Option,
Carry Case

• 750 – 850 W (230V-50Hz)

TECHNICAL DATA		M 750 HD	M 750E HD	M 850 HD	M 850E HD
Disc diameter:	mm	125	125	125	125
No load rpm:	min ⁻¹	10000	3000-10000	10000	3000-10000
Spindle thread:		M14	M14	M14	M14
Weight:	kg	2.0	2.1	2.2	2.3
Power input:	W	750	750	850	850
Cat. No		12000070311	12000070411	12000070511	12000070611
OPTIONS:		Cat No	Cat No	Cat No	Cat No
- Anti-vibration side handle		12000070312	12000070412	12000070512	12000070612



Indexes:

- **B** - Soft start with restriction of starting current
- **C** - Constant electronics plus electronic trigger speed control
- **P** - Safety switch incorporating autostart protection after mains drop out
- **PA** - Anti-vibration back handle



New Fastener rear and side handle helps reduce vibration level and user fatigue by up to 50% (EN 60745).

Index PA



Average value using tri-axis measurement with Standard side handle ① and new Fastener Anti-vibration side handle ②

1. Before fitting:



2. After fitting:



NON-BURST, ANTI-ROTATION
SAFETY GUARD

HEAVYDUTY

Anti
Vibration

M 1010 HD	●	●	●	○	○	○	○	○
MB 1010 HD	●	●	●	○	○	○	○	○
MB 1010PA HD	●	●	●	○	○	○	○	○
M 1300 HD	●	●	●	○	○	○	○	○
MB 1300 HD	●	●	●	○	○	○	○	○
MB 1300PA HD	●	●	●	○	○	○	○	○
MB 1600C HD	●	●	●	○	○	○	○	○
MB 1600PA HD	●	●	●	○	○	○	○	○
MB 1600CPA HD	●	●	●	○	○	○	○	○

HD PROFESSIONAL

Comes complete with:

150 mm safety guard for grinding, Anti-vibration side handle, Support washer, Lock nut, Lock nut spanner

▶ 1010 W (230V-50Hz)

TECHNICAL DATA		M 1010 HD	MB 1010 HD	MB 1010PA HD
Disc diameter:	mm	125 / 150	125 / 150	125 / 150
No load rpm:	min ⁻¹	9500	9500	9500
Spindle thread:		M14	M14	M14
Weight:	kg	3.3	3.3	3.4
Power input:	W	1010	1010	1010
Cat. No		12000080503	12000080703	12000080803
OPTIONS:	Cat. No			
- 125 mm safety guards for grinding & for cutting	12000080605		12000080705	12000080805

▶ 1300 W (230V-50Hz); (110V-50Hz)

TECHNICAL DATA		M 1300 HD	MB 1300 HD	MB 1300PA HD
Disc diameter:	mm	125 / 150	125 / 150	125 / 150
No load rpm:	min ⁻¹	9500	9500	9500
Spindle thread:		M14	M14	M14
Weight:	kg	3.6	3.6	3.7
Power input:	W	1300 (110V-50Hz); (230V-50Hz)	1300 (230V-50Hz)	1300 (230V-50Hz)
Cat. No		12000080903 (230V EU)	12000081003	12000081103
OPTIONS:	Cat. No			
- 125 mm safety guards for grinding & for cutting	12000080905 (230V EU) 12021080906 (110V UK); 12020080906 (230V UK)		12000081005	12000081105

▶ 1600 W (230V-50Hz); (110V-50Hz)

TECHNICAL DATA		MB 1600C HD	MB 1600PA HD	MB 1600CPA HD
Disc diameter:	mm	125 / 150	125	125 / 150
No load rpm:	min ⁻¹	9500	9500	9500
Spindle thread:		M14	M14	M14
Weight:	kg	3.6	3.7	3.7
Power input:	W	1600 (230V-50Hz)	1300 (110V-50Hz)	1600 (230V-50Hz)
Cat. No		12000081203	-	12000081303
OPTIONS:	Cat. No			
- 125 mm safety guards for grinding & for cutting	12000081205		10121081405 (110V UK)	12000081305 (230V EU) 10120081305 (230V UK)

Fastener

PROFESSIONAL

HD PROFESSIONAL

LARGE ANGLE GRINDERS – TECHNOLOGY HIGHLIGHTS



Additional rubber insert preventing the break down of the armature bearing and the further damage caused to the axial movement of the rotor

New protective grill prevents coarse grinding dust into the motor's coil increasing the life of the tool



Powder coated rotor and stator for efficient dust protection – provides reliable operation in heavy dust environments



Vibration insulated rear handle – extending user safe working time (selected models)



New brush holder unit – avoids dust retention and brush blockage



New construction for protecting the front bearing from metal and other dust. A common reason for machine failure.

Cylindrical connection of the gearbox to the housing – added armature/bearing protection and reduced vibration



Autostart protection for added safety after mains drop out (Index P). (According to EN 60475-2-3, p. 21.18.1)

Multifunction switch to prevent accidental switching on. Lock-on function.

NON-BURST, ANTI-ROTATION
SAFETY GUARD

HEAVYDUTY



M 2000 HD	●	●	●	○	○	○	○
MB 2000P HD	●	●	●	●	○	○	○
MA 2000 HD	●	●	○	○	○	○	○
MBA 2000P HD	●	●	●	●	○	○	○

M 2000 HD

MB 2000P HD

MA 2000 HD

MBA 2000P HD

- High performance, high efficiency motor
- Optimised cooling and ventilation of motor
- Powder coated rotor and stator for efficient dust protection
- Protection basket for rotor winding against sharp grinding dust
- Anti-vibration Side handle
- Dust sealed spindle and bearings
- Soft start with restriction of starting current (Index B)
- Safety restart cut out (Index P)
- Anti-vibration back handle (Index PA)
- Magnesium alloy gearbox
- Non-burst, anti-rotation safety guard
- Safety switch to prevent accidental switching on. Lock-on function (Index P)
- Spindle lock button for convenient disc replacement
- Auto-stop brushes



Option: Carry case

Comes complete with:

230 mm safety guard for grinding, Side handle, Support washer, Lock nut, Lock nut spanner

• 2000 W (230V-50Hz)

TECHNICAL DATA	M 2000 HD	MB 2000P HD	MA 2000 HD	MBA 2000P HD
Disc diameter:	mm 180	180	230	230
No load rpm:	min ⁻¹ 8500	8500	6600	6600
Spindle thread:	M14	M14	M14	M14
Weight:	kg 5.4	5.4	5.6	5.6
Power input:	W 2000	2000	2000	2000
Cat. No	12000092109	12000092309	12000092410	12000092610
OPTIONS:	Cat. No	Cat. No	Cat. No	Cat. No
- Anti-vibration side handle	12000092111	12000092311	12000092412	12000092612



Average value using tri-axe measurement with Standard side handle (1) and new Fastener Anti-vibration side handle (2) with Angle Grinder MBA 2200P HD





M 2200 HD	●	●	●	○	○	○	●
MB 2200P HD	●	●	●	●	●	○	●
MB 2200PA HD	●	●	●	●	●	●	●
MA 2200 HD	●	●	●	○	○	○	●
MBA 2200P HD	●	●	●	●	●	○	●
MBA 2200PA HD	●	●	●	●	●	●	●
M 2400 HD	●	●	●	○	○	○	●
MB 2400P HD	●	●	●	●	●	○	●
MB 2400PA HD	●	●	●	●	●	●	●
MA 2400 HD	●	●	●	○	○	○	●
MBA 2400P HD	●	●	●	●	●	○	●
MBA 2400PA HD	●	●	●	●	●	●	●
MB 2600P HD	●	●	●	●	●	○	●
MB 2600PA HD	●	●	●	●	●	●	●
MBA 2600P HD	●	●	●	●	●	○	●
MBA 2600PA HD	●	●	●	●	●	●	●

HD PROFESSIONAL

☐ 2200 W (230V-50hz); (110V-50hz)

TECHNICAL DATA		M 2200 HD	MB 2200P HD	MB 2200PA HD	MA 2200 HD	MBA 2200P HD	MBA 2200PA HD
Disc diameter:	mm	180	180	180	230	230	230
No load rpm:	min ⁻¹	8500	8500	8500	6600	6600	6600
Spindle thread:		M14	M14	M14	M14	M14	M14
Weight:		5.3	5.3	5.6	5.5		5.7
Voltage:		230V~50Hz	230V~50Hz	230V~50Hz	230V~50Hz	5.65.5 110V~50Hz 230V~50Hz	230V~50Hz
Power input:	kg V W	2200	2200	2200	2200	20002200	2200
Cat. No		12000093311	12000093711	12000095411	12000093512	12021093812 (110V UK) 12020093812 (230V UK)	12000095512
OPTIONS:	Cat. No		Cat. No	Cat. No	Cat. No	Cat. No	Cat. No
- Carry case	-	-	-	12000095466	-	12000093867 (230V EU)	12000095567

□ 2400 W (230V-50hz)

TECHNICAL DATA		M 2400 HD	MB 2400P HD	MB 2400PA HD	MA 2400 HD	MBA 2400P HD	MBA 2400PA HD
Dial indicator:	mm	180	180	180	230	230	230
No load rpm:	min ⁻¹	8500	8500	8500	6600	6600	6600
Spindle thread:		M14	M14	M14	M14	M14	M14
Weight:		6.0	6.0	6.4	6.2	6.2	6.5
Power input:	kg	2400	2400	2400	2400	2400	2400
	W						
OPTIONS:		Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.
- Carry case		12000092766	12000092966	12000095666	12000092967	12000093067	12000095767

2600 W (230V-50hz)

TECHNICAL DATA		MB 2600P HD	MB 2600PA HD	MBA 2600P HD	MBA 2600PA HD
Disc diameter:	mm	180	180	230	230
No load rpm:	min ⁻¹	8500	8500	6600	6600
Spindle thread:		M14	M14	M14	M14
Weight:		6.1	6.4	6.3	6.5
Power input:		2600	2600	2600	2600
	kg				
	W				
OPTIONS:		Cat. No.	Cat. No.	Cat. No.	Cat. No.
- Carry case		12000060108	12000060866	12000060267	12000060967

Fastener

PROFESSIONAL

HD PROFESSIONAL

Non Burst Anti Rotation Safety Guard



NON-BURST, ANTI-ROTATION
SAFETY GUARD

All Fastener angle grinders are equipped with a quick-release (tool free), non-burst, anti-rotation safety guard. The new construction of the disc guards provides safety standard EN 60745-2-3.

Safety guard for grinding

Included as standard with all angle grinders.



Safety guard for cutting

Available as separate accessory



HEAVYDUTY



FB 616 HD PROFESSIONAL

- Perfect for grinding, planing and finishing of concrete, stone and mortar
- Safety guard with dust seal system
- Efficient dust extraction in connection with suitable vacuum cleaner
- Soft start with restriction of starting current
- Constant electronics to maintain constant speed under load
- Safety switch to prevent accidental switching on. Lock-on function
- Safety restart cut-out
- Powder coated motor and stator for efficient dust protection
- Magnesium alloy gearbox
- Adjustable closed front handle
- Spindle lock button for convenient wheel replacement
- Auto-stop brushes



Comes complete with: Carry case, Diamond cup wheel, Guard set with rubber seal, Closed front handle with 2 bolts and washers, Support washer, Lock nut, Lock nut spanner

TECHNICAL DATA		FB 616
Wheel diameter:	mm	152.4 (6")
No load rpm:	min ⁻¹	9500
Spindle thread:		M14
Weight:	kg	5
Power input:	W	1600 (230V-50Hz)
Cat. Nr		12000131055

Metal cup wheel with diamond grain abrasive segments



StlrrUP haNDleS



HEAVYDUTY**FB 722 HD PROFESSIONAL****FB 724 HD PROFESSIONAL****FB 726 HD PROFESSIONAL**

- Perfect for grinding, planing and finishing of concrete, stone and mortar
- High performance, high efficiency motor
- Optimised cooling and ventilation of motor
- Powder coated rotor and stator for efficient dust protection
- Protection basket for rotor winding against sharp grinding dust
- Dust sealed spindle and bearings
- Safety guard with dust seal system
- Efficient dust extraction in connection with suitable vacuum cleaner
- Adjustable closed front handle
- Soft start with restriction of starting current
- Safety restart cut out

- Safety switch to prevent accidental switching on. Lock-on function
- Magnesium alloy gearbox
- Spindle lock button for convenient wheel replacement
- Auto-stop brushes



Metal cup wheel with diamond grain abrasive segments



Metal guard with rubber dust seal and dust extraction port for use with suitable vacuum cleaner



Comes complete with: Carry case, Diamond cup wheel, Guard set with rubber seal, Closed front handle with 2 bolts and washers, Support washer, Lock nut, Lock nut spanner

TECHNICAL DATA		FB 722	FB 724	FB 726
Wheel diameter:	mm	177.8 (7")	177.8 (7")	177.8 (7")
No load rpm:	min ⁻¹	6800	6500	6500
Spindle thread:		M14	M14	M14
Weight:	kg	6.0	6.8	6.9
Power input:	W	2200 (230V-50Hz)	2400 (230V-50Hz)	2600 (230V-50Hz)
Cat. Nr		12000130654	12000130754	12000130854

HEAVYDUTY

New



**Anti
Vibration**



CM 6526 HD PROFESSIONAL

- Dust reduced cutting system for concrete, natural stone, tiles and brickwork
- Suitable for stress induced joints and expansion joints
- Efficient dust extraction with suitable vacuum cleaner
- 230 mm spring assisted safety guard
- Adjustable depth of cut
- High performance, high efficiency motor
- Powder coated rotor and stator for efficient dust protection
- Protection basket for rotor winding against sharp dust
- Dust sealed spindle and bearings
- Softstart with restriction of starting current
- Safety restart cut out
- Magnesium alloy gearbox
- Safety switch to prevent accidental switching on. Lock-on function
- Anti-vibration side handle
- Auto-stop brushes

Efficient dust extraction with suitable vacuum cleaner



Adjustable depth of cut (spring assisted)



Comes complete with: Diamond cutting disc, Dust extraction guard, Support washer, Lock nut, Lock nut spanner, Anti-vibration side handle

TECHNICAL DATA		CM 6526
Disc diameter:	mm	230
No load rpm:	min ⁻¹	6500
Spindle thread:		M14
Max. cutting depth:	mm	65
Weight:	kg	7.5
Power input:	W	2000 (110V-50Hz) / 2600 (230V-50Hz)
Cat. Nr		12000121254 (230V EU); 12000121206 (110V UK)

HEAVYDUTY



Adjustable depth of cut



FK 3012 HD PROFESSIONAL

FK 3014 HD PROFESSIONAL



- ✓ Suitable for efficient cutting of channels in concrete, walls and floors
- ✓ Constant electronics to maintain constant speed under load
- ✓ Softstart with restriction of starting current
- ✓ Thermal overload protection
- ✓ Light and easy to operate on vertical walls/surfaces
- ✓ Efficient dust extraction in connection with suitable vacuum cleaner
- ✓ Aluminium disc guard with support rollers
- ✓ Staged adjustment of groove width using thrust washers provided
- ✓ Magnesium alloy gearbox
- ✓ Safety switch with lock-on function
- ✓ Spindle lock button for convenient disc replacement
- ✓ Anti-vibration side handle
- ✓ Auto-stop brushes

Comes complete with: 2 diamond discs, Disc guard with rollers, Dust extraction port, Anti-vibration side handle, Support washer, Lock nut, 6 thrust washers, Lock nut spanner

Options: Carry case
 FK 3012 Cat. №: 12000121353 (230V EU)
 FK 3014 Cat. №: 12000121153 (230V EU);
 12121121153 (110V UK); 12120121153 (230V UK)

TECHNICAL DATA		FK 3012	FK 3014
Disc diameter:	mm	125	125
No load rpm:	min ⁻¹	10500	10500
Spindle thread:		M14	M14
Groove depth:	mm	0-30	0-30
Groove width:	mm	3-29	3-29
Weight:	kg	3.5	3.5
Power input:	W	1200 (230V-50Hz)	1010 (110V-50Hz); 1400 (230V-50Hz)
Cat. №		12000121303 (230V EU)	12000121103 (230V EU); 12021121103 (110V UK); 12020121103 (230V UK)

HEAVYDUTY



FK 6522 HD PROFESSIONAL

FK 6524 HD PROFESSIONAL

FK 6526 HD PROFESSIONAL

- Suitable for efficient cutting of deep and wide channels in concrete walls and floors
- High performance, high efficiency motor
- Powder coated rotor and stator for efficient dust protection
- Protection basket for rotor winding against sharp dust
- Dust sealed spindle and bearings
- Efficient dust extraction in connection with suitable vacuum cleaner
- Aluminium disc guard with support rollers
- Stagless adjustment of cutting depth
- Staged adjustment of groove width using thrust washers provided
- Softstart with restriction of starting current
- Safety restart cut out
- Safety switch to prevent accidental switching on. Lock-on function
- Magnesium alloy gearbox
- Ergonomic soft-grip rear handle
- Anti-vibration side handle
- Auto-stop brushes



DIAMOND DISCS

SUPERIOR LIFE

FAST CUTTING

REDUCTION IN DOWN TIME

BETTER HANDLING

REDUCED VIBRATION

INCREASED SAFETY

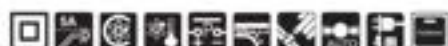


Comes complete with: 2 diamond discs, Disc guard with rollers, Dust extraction port, Anti-vibration side handle, Support washer, Lock nut, 7 thrust washers, Lock nut spanner

TECHNICAL DATA		FK 6522	FK 6524	FK 6526
Disc diameter:	mm	230	230	230
No load rpm:	min ⁻¹	6600	6500	6500
Spindle thread:		M14	M14	M14
Groove depth:	mm	20-65	20-65	20-65
Groove width:	mm	9-40	9-40	9-40
Weight:	kg	9.6	10.4	10.4
Power input:	W	2000(110V-50Hz); 2200(230V-50Hz)	2400 (230V-50Hz)	2600 (230V-50Hz)
Cat. No		12000120504 (230V EU)	12000120604	12000120704
		12021120504 (110V UK)		
		12020120504 (230V UK)		

HEAVYDUTY

New

Anti
Vibration

SM 1236CES Plus HD PROFESSIONAL

- Compact and lightweight design
- Electronic speed pre-selection
- Softstart with restriction of starting current
- Constant electronics to maintain constant speed under load
- Safety switch with lock on function
- Safety restart cut out
- Thermal overload protection
- Durable milled hardened gears
- Anti-vibration side handle
- Magnesium alloy gearbox
- Spindle lock button for convenient disc replacement
- Autostop-brushes

Electronic speed
pre-selection

Comes complete with: Flexible backing pad, Anti-vibration side handle, Polishing disc

TECHNICAL DATA		SM 1236CES Plus
Flexible backing pad, max.:	mm	150
No load rpm:	min ⁻¹	800-3600
Spindle thread:		M14
Weight:	kg	2.4
Power input:	W	1200 (230V-50Hz)
Cat. No		12000221507

HEAVYDUTY



PMB 2030E HD PROFESSIONAL

PMB 2230E HD PROFESSIONAL

PMB 2430E HD PROFESSIONAL

- High torque, high efficiency motor
- Optimum motor cooling for extended tool life
- Electronic speed pre-selection
- Softstart with restriction of starting current
- Safety switch to prevent accidental switching on. Lock-on function
- Safety restart cut out
- Dust sealed spindle and bearings
- Powder coated rotor and stator for efficient dust protection
- Protection basket for rotor winding against sharp dust
- Closed front handle for precise operation and improved control
- Soft grip rear handle
- Magnesium alloy gearbox
- Spindle lock button for convenient disc replacement
- Autostop-brushes



Comes complete with: Flexible backing pad, Sanding disc, Polishing bonnet, Closed front handle with 2 bolts and washers, Support washer, Lock nut, Lock nut spanner

TECHNICAL DATA		PMB 2030E	PMB 2230E	PMB 2430E
Flexible backing pad, max.:	mm	180	180	180
No load rpm:	min ⁻¹	500-3000	500-3000	500-3000
Spindle thread:		M14	M14	M14
Weight:	kg	4.9	4.8	5.4
Power input:	W	2000 (230V-50Hz)	2200 (230V-50Hz)	2400 (230V-50Hz)
Cat. Nr		12000111101	12000111201	12000111301

HEAVYDUTY

New

SM 1433CES Plus **HD** PROFESSIONAL

- Compact and lightweight design
- Electronic speed pre-selection
- Softstart with restriction of starting current
- Constant electronics to maintain constant speed under load
- Safety switch to prevent accidental switching on. Lock-on function
- Safety restart cut out
- Thermal overload protection
- Durable milled hardened gears
- Front handle for improved control
- Soft grip rear handle
- Magnesium alloy gearbox
- Spindle lock button for convenient disc replacement
- Autostop-brushes



Options: Closed front handle, Flexible backing pad, Polishing disc

Cat. No: 12000221609

Comes complete with: Front handle, Flexible backing pad, Polishing disc

WIDE RANGE OF ACCESSORIES

Polishing discs, pads and bonnets with hook & loop backing for polishing and finishing of various types of surfaces.



TECHNICAL DATA

SM 1433CES Plus

Flexible backing pad, max.:	mm	150
No load rpm:	min ⁻¹	700-3300
Spindle thread:		M14
Weight:	kg	2.4
Power input:	W	1400 (230V-50Hz)
Cat. No		12000221614



EX 125E PROFESSIONAL

- Electronic speed pre-selection
- Switch with lock on function
- Ergonomic soft-grip handle
- Random orbit action plus rotation for fast and smooth finishing
- Dust extraction facility with dust bag or vacuum cleaner
- Live tool indicator when plugged into the power supply
- Double insulation

Vacuum cleaner adapter



Quick-change hook & loop accessories



EX 150E PROFESSIONAL • EX 150CE PROFESSIONAL

- Constant electronics (EX 150CE)
- Trigger switch with lock on function
- Aluminium alloy base with integral dust extraction
- Adjustable front handle



SANDING PAPER HOLE PUNCH
and assembly guides. Used for precise sand paper installing and punching holes in standard sand paper sheets.



Comes complete with: EX 125E, EX 150E: Sanding sheet, Dust collection bag, Dust extraction adapter, Paper hole punch
EX 150CE: Carry case, Sanding sheet, Dust collection bag, Dust extraction adapter, Paper hole punch

TECHNICAL DATA		EX 125E	EX 150E	EX 150CE
Pad size:	mm	125	150	150
No load rpm:	min ⁻¹	7000–14000	6000–12000	4000–10000
Eccentricity:	mm	2.5	2.5	2.5
Weight:	kg	1.7	2.2	2.2
Power input:	W	320 (110V–50Hz); (230V–50Hz)	500 (230V–50Hz)	550 (230V–50Hz)
Cat. Nr		13000140104 (230V EU) 13121140104 (110V UK) 13120140104 (230V UK)	13000141206 (EU)	13000141353 (EU)

HEAVYDUTY



X 85CES Plus HD PROFESSIONAL

X 110CES Plus HD PROFESSIONAL

- Electronic speed pre-selection
- Constant electronics to maintain speed under load
- Soft start with restriction of starting current
- Electronic safety clutch for sudden jamming of the cutter
- Current overload protection
- Thermal overload protection
- Safety restart cut out
- 3 position fine depth adjustment
- Aluminium alloy gearbox
- Ergonomic side handles
- Removable motor can be used without cradle for other grinding jobs
- Adjustable parallel fence guide
- Dust extraction adapter
- Auto-stop brushes

Comes complete with: Collets Ø6 mm and Ø8 mm, Lock nut, Spanner, Parallel fence guide, Dust extraction adapter

TECHNICAL DATA		X 85CES Plus	X 110CES Plus
Max. cutting stroke:	mm	52	52
No load rpm:	min ⁻¹	10000-25000	10000-25000
Max. cutter diameter at 45 m/s:	mm	30	30
Collets:	mm	Ø6 / Ø8	Ø6 / Ø8
Journal diameter:	mm	43	43
Weight:	kg	3.3	3.4
Power input:	W	850 (230V-50Hz)	1100 (230V-50Hz)
Cat. No		12000151302	12000151402

ROUTER BIT SET

Contains a variety of router bits for precision cuts on woodworking projects.

- Sharp and durable cutting edges
- Well balanced with minimum vibration
- Good cutting geometry
- Fast performance and quality cutting

Shaft diameter: 8 mm

Hardness level: HRC: 88-90 degree

Material: 45 carbon steel with alloy steel blade, brass welding and black finishing



New



X 160E PROFESSIONAL

- Electronic speed pre-selection
- 3 position fine depth adjustment
- Aluminium alloy gearbox
- Adjustable parallel fence guide
- Dust extraction adapter
- Ergonomic side handles

Trigger switch



Aluminum base with adjustable parallel fence guide



Dust extraction adapter

Comes complete with: Collets Ø6 mm, Ø8 mm and Ø12 mm, 2 pcs. parallel fence guide, Guide rail, Guide bush, Bow compass, Spanner, Dust extraction adapter

TECHNICAL DATA		X 160E
Max. cutting stroke:	mm	60
No load rpm:	min ⁻¹	10000-30000
Max. cutter diameter at 45 m/s:	mm	30
Collets:	mm	Ø6 / Ø8 / Ø12
Journal diameter:	mm	-
Weight:	kg	4.1
Power input:	W	1600 (230V-50Hz)
Cat. Nr		13000151706

**MBG 150 PROFESSIONAL****MBG 175 PROFESSIONAL****MBG 200 PROFESSIONAL**

- Heavy duty grinder for industrial applications
- Powerful, service-free single-phase induction motor
- Stable cast iron body
- Precision bearings for smooth running and for extended life time
- Stable, adjustable tool rests
- Adjustable eye guards, magnifying lens
- On/Off switch with dust-proof rubber cover



- Dust extraction port (MBG 200)

Comes complete with: 1 medium and 1 fine grinding wheel (36 and 60 grit)

WHEELS FOR BENCH GRINDERS

Wheels fitted to our bench grinders are made of aluminium oxide.

Grit size:

24 – coarse; 36 – medium; 60 – fine



TECHNICAL DATA		MBG 150	MBG 175	MBG 200
No load rpm:	min ⁻¹	2950	2950	2950
Wheel diameter:	mm	150	175	200
Wheel bore:	mm	32	32	32
Wheel thickness:	mm	25	25	32
Short time duty S2:	min	30	30	30
Wheel grit:		36+60	36+60	36+60
Protection class:		IP 20	IP 20	IP 20
Weight:	kg	16	18	28
Power input:	W	520 (230V-50Hz)	520 (230V-50Hz)	900 (230V-50Hz)
Cat. №		13000201400	13000201500	13000201600 (230V EU) 13120201600 (230V UK)



MBGT 150 PROFESSIONAL



MBGS 200 PROFESSIONAL

BENCH GRINDER STAND

SBG 80 Cat. № 20009701100

- Bench grinder stand. Suitable for all Fastener bench grinders
- Material - 4 mm sheet steel
- Operation height - 85 cm
- Weight: 14 kg



SANDING BELT



WIRE BRUSH

Cat. № 20009740000

- Compatible with bench grinder MBGT 150
- Size: Ø150 x 20 x 32 mm



- Heavy duty grinder for industrial applications
- Powerful, service-free induction motor
- Stable cast iron body
- Large grinding wheel diameter up to 200 mm for extended lifetime (MBGS 200)
- Precision bearings for smooth running and for extended life time
- Stable, adjustable tool rests
- Wire wheel brush for raw grinding (MBGT 150)
- Sanding belt for fine grinding (MBGS 200)
- Adjustable eye guards, magnifying lens
- Dust extraction port (MBGS 200)
- On/Off switch with dust-proof rubber cover

Comes complete with:

MBGT 150: Grinding wheel medium grit (36 grit), Crimped wire wheel brush

MBGS 200: Grinding wheel medium grit (36 grit), Sanding belt

TECHNICAL DATA		MBGT 150	MBGS 200
No load rpm:	min ⁻¹	2950	2950
Wheel diameter:	mm	150	200
Wheel bore:	mm	32	32
Wheel thickness:	mm	25	32
Short time duty S2:	min	30	30
Wheel grit:		36	36
Brush dimensions:	mm	Ø150x20xØ32	—
Sanding area / Belt dimensions	mm	—	140x100 / 914x100
Protection class:		IP 20	IP 20
Weight:	kg	15.5	32
Power input:	W	520 (230V-50Hz)	900 (230V-50Hz)
Cat. №		13000202600	13000202700



MBS 976E



MBS 976 PROFESSIONAL

MBS 976E PROFESSIONAL

ACCESSORIES

Anti slip mat, Inversion clamps - 2 pcs. and Sanding frame (sold separately) for stationary use.



The sanding frame enables the entire assembly to glide over uneven surfaces and prevents sander tilting and gouging. When flatness is important and the surface is large, like a floor or a table top, always use the sanding frame.



- Electronic speed pre-selection (MBS 976E)
- Can be used with suitable inversion clamps or sanding frame for stationary use
- Aluminium alloy drive belt cover
- Tool free belt track adjustment
- Quick grip belt system
- Lock-on switch
- Ergonomic soft-grip handles
- Dust extraction with dust bag
- Dust extraction adapter



Comes complete with: MBS 976: 1 sanding belt, Dust collection bag

MBS 976E: Carry case, 5 assorted sanding belts, Dust collection bag

Options: Anti slip mat, 2 inversion clamps, Cat. No: 13121140851 (110V UK); 13120140851 (230V UK)

TECHNICAL DATA		BS2	BS3
Belt rpm:	m/min	340	160-340
Sanding area:	mm	76 x 130	76 x 130
Belt size:	mm	76 x 533	76 x 533
Weight:	kg	3.4	3.4
Power input:	W	900 (230V-50Hz)	900 (110V-50Hz); 900 (230V-50Hz)
Cat. No		13000140703 (230V EU)	13000140850 (230V EU)

Pcs/Pack	Cat. No
5	20009701014



ABRASIVE DISCS



CUTTING DISCS METAL ④

Diameter x Width x Bore, mm	Type	Pcs/Pack	Cat. No
100 x 1.2 x 16	A30 R BF	10	20009561709
100 x 2.0 x 16	A30 R BF	10	20009561809
100 x 3.0 x 16	A30 S BF	10	20009561609
115 x 3.0 x 22.2	A30 R BF	10	20009560009
125 x 3.0 x 22.2	A30 R BF	10	20009560109
100 x 1.2 x 16	A30 R BF	5	20009561704
100 x 2.0 x 16	A30 R BF	5	20009561804
100 x 3.0 x 16	A30 S BF	5	20009561604
150 x 3.0 x 22.2	A30 R BF	5	20009560204
180 x 3.0 x 22.2	A30 R BF	5	20009560304
230 x 3.0 x 22.2	A30 R BF	5	20009560404

CUTTING DISCS METAL, DEPRESSED CENTRE ⑤

Diameter x Width x Bore, mm	Type	Pcs/Pack	Cat. No
100 x 3.0 x 16	A30 S BF	10	20009561509
115 x 3.0 x 22.2	A30 R BF	10	20009560509
125 x 3.0 x 22.2	A30 R BF	10	20009560609
100 x 3.0 x 16	A30 S BF	5	20009561504
180 x 3.0 x 22.2	A30 R BF	5	20009569004
230 x 3.0 x 22.2	A30 R BF	5	20009560704

CUTTING DISCS STONE ⑥

Diameter x Width x Bore, mm	Type	Pcs/Pack	Cat. No
100 x 3.0 x 16	C30 S BF	10	20009563309
115 x 3.0 x 22.2	C30 S BF	10	20009562509
125 x 3.0 x 22.2	C30 S BF	10	20009562609
100 x 3.0 x 16	C30 S BF	5	20009563304
150 x 3.0 x 22.2	C30 S BF	5	20009562704
230 x 3.0 x 22.2	C30 S BF	5	20009562804

CUTTING DISCS STONE, DEPRESSED CENTRE ⑦

Diameter x Width x Bore, mm	Type	Pcs/Pack	Cat. No
100 x 3.0 x 16	C30 S BF	10	20009563209
115 x 3.0 x 22.2	C30 S BF	10	20009562909
125 x 3.0 x 22.2	C30 S BF	10	20009563009
100 x 3.0 x 16	C30 S BF	5	20009563204
230 x 3.0 x 22.2	C30 S BF	5	20009563104

GRINDING DISCS METAL ①

Diameter x Width x Bore, mm	Type	Pcs/Pack	Cat. No
100 x 6.0 x 16	A24 R BF	5	20009565504
115 x 6.0 x 22.2	A24 R BF	5	20009565004
125 x 6.0 x 22.2	A24 R BF	5	20009565104
150 x 6.0 x 22.2	A24 R BF	5	20009565404
180 x 6.0 x 22.2	A24 R BF	5	20009565204
230 x 6.0 x 22.2	A24 R BF	5	20009565304

GRINDING DISCS STONE ②

Diameter x Width x Bore, mm	Type	Pcs/Pack	Cat. No
100 x 6.0 x 16	C24 R BF	5	20009567904
125 x 6.0 x 22.2	C24 R BF	5	20009567704
150 x 6.0 x 22.2	C24 R BF	5	20009567504
180 x 6.0 x 22.2	C24 R BF	5	20009567604
230 x 6.0 x 22.2	C24 R BF	5	20009567804

CUTTING DISCS STAINLESS STEEL / INOX ③

Diameter x Width x Bore, mm	Type	Pcs/Pack	Cat. No
100 x 1.0 x 16	WA 60 T BF	10	20009561409
100 x 1.2 x 16	A60 S BF41	10	20009561909
115 x 1.0 x 22.2	A60 S BF41	10	20009560809
115 x 1.2 x 22.2	A60 S BF41	10	20009560909
125 x 1.0 x 22.2	A60 S BF41	10	20009561009
125 x 1.2 x 22.2	A60 S BF41	10	20009561109
180 x 2.0 x 22.2	A60 S BF41	10	20009561209
230 x 2.0 x 22.2	A60 S BF41	10	20009561309

Fastener Free Hand Cutting Disc For Metal, Steel A 30T Bf

► General purpose disc for cutting all types metal, steel. Made of normal corundum. Medium hard bond.
 Good service life and fast cutting with reasonable price.



Item Number	Dimensions in mm	Dimensions in inches	Form	*rpm	m/s
3001418	100x2.5x16	4x3/32x5/8		15200	80
3001419	100x2.5x16	4x3/32x5/8		15200	80
3001420	115x2.5x22	4 1/2x3/32x7/8		3300	80
3001421	115x2.5x22	4 1/2x3/32x7/8		13300	80
3001422	125x2.5x22	5x3/32x7/8		12000	80
3001423	125x2.5x22	5x3/32x7/8		12000	80
3001424	150x2.5x22	6x3/32x7/8		10200	80
3001425	150x2.5x22	6x3/32x7/8		10200	80
3001426	180x3.0x22	7x1/8x7/8		8500	80
3001427	180x3.0x22	7x1/8x7/8		8500	80
3001428	230x3.0x22	9x1/8x7/8		6600	80
3001429	230x3.0x22	9x1/8x7/8		6600	80
3001430	300x3.5x20	12x1/8x3/4		5100	80
3001431	300x3.5x22	12x1/8x3/4		5100	80

Fastener Grinding Wheel For Metal And Steel

► General purpose wheels for grinding all types metal, steel. Made of normal grade corundum. Medium hard bond.
 For an optimal ratio between grinding performance and disc life.



Item Number	Dimensions in mm	Dimensions in inches	Form	*rpm	m/s
3001432	100x2.5x16	4x3/32x5/8		15200	80
3001433	115x2.5x22	4 1/2x3/32x7/8		13300	80
3001434	125x2.5x22	5x3/32x7/8		12000	80
3001435	150x2.5x22	6x3/32x7/8		10200	80
3001436	180x3.0x22	7x1/8x7/8		8500	80
3001437	230x3.0x22	9x1/8x7/8		6600	80

Fastener Free Hand Cutting Disc For Stone A 24R Bf

► General purpose disc for natural and artificial stone. Made of silicon carbide. Medium hard bond. Good cutting efficiency and lifetime.



Item Number	Dimensions in mm	Dimensions in inches	Form	*rpm	m/s
3001438	100x2.5x16	4x3/32x5/8		15200	80
3001439	100x2.5x16	4x3/32x5/8		15200	80
3001440	115x2.5x22	4 1/2x3/32x7/8		3300	80
3001441	115x2.5x22	4 1/2x3/32x7/8		13300	80
3001442	125x2.5x22	5x3/32x7/8		12000	80
3001443	125x2.5x22	5x3/32x7/8		12000	80
3001444	150x2.5x22	6x3/32x7/8		10200	80
3001445	150x2.5x22	6x3/32x7/8		10200	80
3001446	180x3.0x22	7x1/8x7/8		8500	80
3001447	180x3.0x22	7x1/8x7/8		8500	80
3001448	230x3.0x22	9x1/8x7/8		6600	80
3001449	230x3.0x22	9x1/8x7/8		6600	80

Fastener Grinding Wheel For Stone

► General purpose wheel for natural and artificial stone working. Made of silicon carbide. Medium hard bond. Very good removal rate and long service life, excellent for both edges and surfaces grinding.



Item Number	Dimensions in mm	Dimensions in inches	Form	*rpm	m/s
3001450	100x6x16	4x1/4x5/8		15200	80
3001451	115x6x22	4 1/2x1/4x7/8		13300	80
3001452	125x6x22	5x1/4x7/8		12000	80
3001453	150x6x22	6x1/4x7/8		10200	80
3001454	180x6x22	7x1/4x7/8		8500	80
3001455	230x6x22	9x1/4x7/8		6600	80

DIAMOND BLADES



LASER WELDING

In laser welding, the segments are manufactured separately. This separate method of production saves the blade core from the negative effects of being heated to high temperatures during manufacture.

There is a higher level of hardness and durability with this type of blade, which does not allow deformation during cutting.

Therefore Fastener laser welded blades are suitable as well for reinforced concrete.



SINTERING

Sintering is a fast, but economical manufacturing process to produce good quality diamond cutting blades.



Description		Diameter x Bore, mm	Thickness, mm	Pcs/Pack	Cat. №
SINTERED DIAMOND BLADES					
	Designed for regular trade use in various types of materials Application: Concrete, paving slabs, brick, block and stone	115 x 22.23	1.8	1	20009540000
		125 x 22.23	2.2	1	20009540100
		230 x 22.23	2.5	1	20009540200
SINTERED DIAMOND WAVE BLADES					
	Fast and aggressive cut due to the serrated segment style. Better cooling and debris removal for a cleaner performance. Application: Granite, marble, concrete, brick, tiles.	125 x 22.23	2.4	1	20009545600
		230 x 22.23	3.0	1	20009545700
HOT-PRESSED SINTERED DIAMOND BLADES					
	HEAVY DUTY PREMIUM QUALITY Hot-pressed segments. Application: Concrete universal, brick, block, granite	125 x 22.23	2.0	1	20008545900
		230 x 22.23	2.1	1	20008546000
LASER WELDED DIAMOND BLADES					
	HEAVY DUTY PREMIUM QUALITY Hot-pressed segments Higher temperature tolerance Application: Granite, marble, concrete, brick, block.	115 x 22.23	1.8	1	20009543300
		125 x 22.23	2.4	1	20009541000
		230 x 22.23	2.8	1	20009541100
LASER WELDED DIAMOND BLADES WITH TURBO SEGMENTS					
	Diamond Turbo segments provide extra fast and aggressive cut. Higher temperature tolerance and efficiency. Application: Hard or abrasive materials reinforced concrete, asphalt, green concrete, metals, stone, tiles, etc.	125 x 22.23	2.6	1	20009546100
		230 x 22.23	2.8	1	20009546200

Fastener Segmented Diamond Blade

► Segmented diamond Saw blade fits for dry cutting for granite, marble, asphalt, concrete etc.



Item Number	Outer Diameter(D)		Inner Diameter(H)		Segment Dimension (T×H×L)	Segment Number
	Inch	Metric(mm)	Inch	Metric(mm)		
3001100	4"	105	5/8"3/4"7/8"	16\20\22.23	1.8×7.0×35	7/8
3001101	4.3"	110	5/8"3/4"7/8"	16\20\22.23	1.9×7.0×32	9
3001102	4.5"	115	7/8"	22.23	1.9×7.0×38	8
3001103	5"	125	7/8"	22.23	1.9×7.0×33	9
3001104	6"	150	7/8"	22.23	2.0×7.0×35	12
3001105	7"	180	7/8"1"	22.23\25.4	2.4×7.0×39	14
3001106	8"	200	7/8"1"	22.23\25.4	2.4×7.0×39	14
3001107	9"	230	7/8"1"	22.23\25.4	2.4×7.0×34	16/18
3001108	10"	250	7/8"1"1/2"	22.23\25.4\50	3.0×8.0×37	16/18
3001109	12"	300	7/8"1"1/2"	22.23\25.4\50	3.2×8.0×35	22
3001110	14"	350	7/8"1"1/2"	22.23\25.4\50	3.2×8.0×40	24
3001111	16"	400	7/8"1"1/2"	22.23\25.4\50	3.2×10×40	26



Fastener Continuous Diamond Blade

► Continuous rim blade is suitable for wet cutting for materials as tile, ceramic, glass, marble, granite, concrete etc.



Item Number	Outer Diameter(D)		Inner Diameter(H)		Segment Dimension (T×H)
	Inch	Metric(mm)	Inch	Metric(mm)	
3001112	4"	105	5/8"3/4"7/8"	16/20/22.23	1.8×5.0
3001113	4.3"	110	5/8"3/4"7/8"	16/20/22.23	1.9×5.0
3001114	4.5"	115	7/8"	22.23	1.9×5.0
3001115	5"	125	7/8"	22.23	1.9×5.0
3001116	6"	150	7/8"	22.23	1.9×5.0
3001117	7"	180	7/8"1"	22.23/25.4	2.2×5.0
3001118	8"	200	7/8"1"	22.23/25.4	2.4×5.0
3001119	9"	230	7/8"1"	22.23/25.4	2.4×5.0
3001120	10"	250	7/8"1"	22.23/25.4/50	3.0×6.0
3001121	12"	300	7/8"1"2"	22.23/25.4/50	3.2×6.0
3001122	14"	350	7/8"1"2"	22.23/25.4/50	3.2×8.0
3001123	16"	400	7/8"1"2"	22.23/25.4/50	3.4×8.0

Fastener Diamond Turbo Wave Blade

► Turbo diamond saw blade with reinforced core is designed for cutting hard materials as granite, hard concrete and bricks. It shows excellent performance of fast & steady cutting, long life and effective protection.



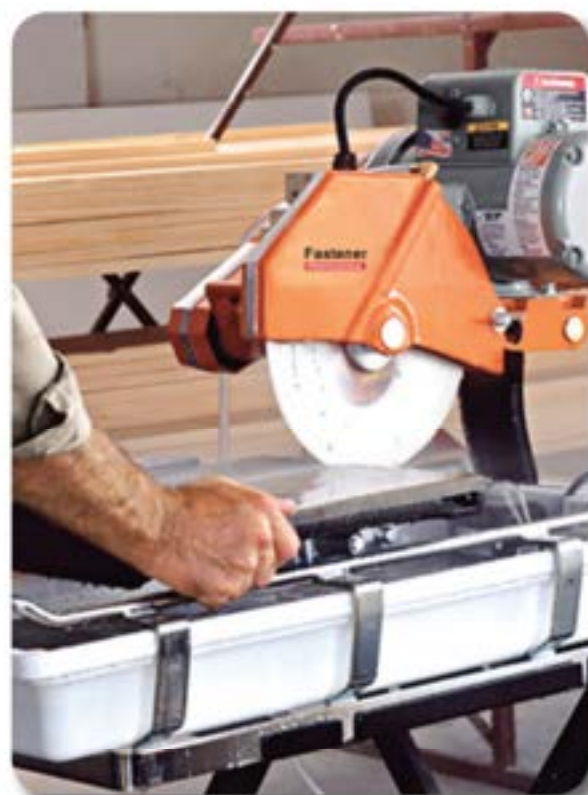
Item Number	Outer Diameter(D)		Inner Diameter(H)		Segment Dimension (T×H)
	Inch	Metric(mm)	Inch	Metric(mm)	
3001124	4"	105	5/8"3/4"7/8"	16/20/22.23	2.6×7.0
3001125	4.3"	110	5/8"3/4"7/8"	16/20/22.23	2.6×7.0
3001126	4.5"	115	3/4"7/8"	20/22.23	2.6×7.0
3001127	5"	125	3/4"7/8"	20/22.23	2.6×7.0
3001128	6"	150	3/4"7/8"	20/22.23	2.8×7.0
3001129	7"	180	7/8"1"	22.23/25.4	3.0×7.0
3001130	8"	200	7/8"1"	22.23/25.4	3.2×7.0
3001131	9"	230	7/8"1"	22.23/25.4	3.5×7.0

Fastener Diamond Turbo Blade

► Turbo diamond saw blade with reinforced core is designed for cutting hard materials as granite, hard concrete and bricks. It shows excellent performance of fast & steady cutting, long life and effective protection.



Item Number	Outer Diameter(D)		Inner Diameter(H)		Segment Dimension (T×H)
	Inch	Metric(mm)	Inch	Metric(mm)	
3001132	4"	105	5/8"3/4"7/8"	16\20\22.23	2.0×7.0
3001133	4.3"	110	5/8"3/4"7/8"	16\20\22.23	2.0×7.0
3001134	4.5"	115	7/8"	22.23	2.2×7.0
3001135	5"	125	7/8"	22.23	2.2×7.0
3001136	6"	150	7/8"	22.23	2.2×7.0
3001137	7"	180	7/8"1"	22.23\25.4	2.4×7.0
3001138	8"	200	7/8"1"	22.23\25.4	2.6×7.0
3001139	9"	230	7/8"1"	22.23\25.4	2.8×7.0
3001140	10"	250	7/8"1"1/2"	22.23\25.4\50	3.0×8.0
3001141	12"	300	7/8"1"1/2"	22.23\25.4\50	3.2×8.0
3001142	14"	350	7/8"1"1/2"	22.23\25.4\50	3.2×8.0
3001143	16"	400	7/8"1"1/2"	22.23\25.4\50	3.2×8.0



Fastener Hotpressed Diamond Saw Blade

► For general cutting of granite, marble, masonry, concrete and many other materials.



Item Number	Outer Diameter(D)		Inner Diameter(D)		Segment Dimension (T×H×L)
	Inch	Metric(mm)	Inch	Metric(mm)	
3001144	4"	105	5/8"3/4"7/8"	16/20/22.23	1.8×7.0×35
3001145	4.3"	110	5/8"3/4"7/8"	16/20/22.23	1.9×7.0×35
3001146	4.5"	115	7/8"	22.23	1.9×7.0×35
3001147	5"	125	7/8"	22.23	1.9×7.0×35
3001148	6"	150	7/8"	22.23	2.2×7.0×35
3001149	7"	180	7/8"1"	22.23/25.4	2.4×7.0×35
3001150	8"	200	7/8"1"	22.23/25.4	2.4×7.0×35
3001151	9"	230	7/8"1"	22.23/25.4	2.4×7.0×35

► Designed for wet cutting of ceramic tile, quarry tile, marble and granite.



Item Number	Outer Diameter(D)		Inner Diameter(H)		Segment Dimension (T×H)
	Inch	Metric(mm)	Inch	Metric(mm)	
3001152	4"	105	5/8"3/4"7/8"	16/20/22.23	1.8×5.0
3001153	4.3"	110	5/8"3/4"7/8"	16/20/22.23	1.9×5.0
3001154	4.5"	115	7/8"	22.23	1.9×5.0
3001155	5"	125	7/8"	22.23	1.9×5.0
3001156	6"	150	7/8"	22.23	2.2×6.0
3001157	7"	180	7/8"1"	22.23/25.4	2.4×6.0
3001158	8"	200	7/8"1"	22.23/25.4	2.4×7.0
3001159	9"	230	7/8"1"	22.23/25.4	2.4×8.0

► Different hardness of bonds designed of different kinds of stones, concrete, masonry, engineering brick, tiles and other materials.



Item Number	Outer Diameter(D)		Inner Diameter(H)		Segment Dimension (T×H)
	Inch	Metric(mm)	Inch	Metric(mm)	
3001178	4"	105	5/8"3/4"7/8"	16/20/22.23	2.0×7.0
3001179	4.3"	110	5/8"3/4"7/8"	16/20/22.23	2.0×7.0
3001180	4.5"	115	7/8"	22.23	2.2×7.0
3001181	5"	125	7/8"	22.23	2.2×7.0
3001182	6"	150	7/8"	22.23	2.2×8.0
3001183	7"	180	7/8"1"	22.23/25.4	2.4×8.0
3001184	8"	200	7/8"1"	22.23/25.4	2.6×8.0
3001185	9"	230	7/8"1"	22.23/25.4	2.8×8.0

Fastener Hotpressed Diamond Saw Blade



► Designed for cutting of ceramic, quarry tile, marble, concrete, granite and materials.



Item Number	Outer Diameter(D)		Inner Diameter(H)		Segment Dimension (T×H)
	Inch	Metric(mm)	Inch	Metric(mm)	
3001160	4"	105	5/8"3/4"7/8"	16/20/22.23	1.2×8.0
3001161	4.3"	110	5/8"3/4"7/8"	16/20/22.23	1.2×8.0
3001162	4.5"	115	7/8"	22.23	1.2×8.0
3001163	5"	125	7/8"	22.23	1.2×9.0
3001164	6"	150	7/8"	22.23	1.6×9.0
3001165	7"	180	7/8"1"	22.23/25.4	1.8×10.0
3001166	8"	200	7/8"1"	22.23/25.4	1.8×10.0
3001167	9"	230	7/8"1"1/2"	22.23/25.4/50	1.8×12.0
3001168	10"	250	7/8"1"1/2"	22.23/25.4/50	1.8×12.0

Fastener Hotpressed Diamond Saw With Flange



► Designed for cutting different kinds of stones, concrete, masonry, engineering brick, tiles etc.



Item Number	Outer Diameter(D)		Inner Diameter(H)		Segment Dimension (T×H)
	Inch	Metric(mm)	Inch	Metric(m)	
3001169	4"	105	5/8"3/4"7/8"	16/20/22.23	1.2×7.0
3001170	4.3"	110	5/8"3/4"7/8"	16/20/22.23	1.2×7.0
3001171	4.5"	115	7/8"	22.23	1.2×7.0
3001172	5"	125	7/8"	22.23	1.2×7.0
3001173	6"	150	7/8"	22.23	1.6×8.0
3001174	7"	180	7/8"1"	22.23/25.4	1.8×8.0
3001175	8"	200	7/8"1"	22.23/25.4	1.8×9.0
3001176	9"	230	7/8"1"1/2"	22.23/25.4/50	1.8×10.0
3001177	10"	250	7/8"1"1/2"	22.23/25.4/50	1.8×10.0



► Designed for cutting granite, marble, masonry, concrete and many other materials.



Item Number	Outer Diameter(D)		Inner Diameter(H)		Segment Dimension (T×H)
	Inch	Metric(mm)	Inch	Metric(mm)	
3001169	4"	105	5/8"3/4"7/8"	16/20/22.23	1.2×7.0
3001170	4.3"	110	5/8"3/4"7/8"	16/20/22.23	1.2×7.0
3001171	4.5"	115	7/8"	22.23	1.2×7.0
3001172	5"	125	7/8"	22.23	1.2×7.0
3001173	6"	150	7/8"	22.23	1.6×8.0
3001174	7"	180	7/8"1"	22.23/25.4	1.8×8.0
3001175	8"	200	7/8"1"	22.23/25.4	1.8×9.0
3001176	9"	230	7/8"1"1/2"	22.23/25.4/50	1.8×10.0
3001177	10"	250	7/8"1"1/2"	22.23/25.4/50	1.8×10.0

Fastener Tuck Point Saw Blade



► The wide segments are specially designed for mortared expansion, joints and slotting granite, marble, concrete etc.



Item Number	Outer Diameter		Inner Diameter	
	Inch	Metric(mm)	Inch	Metric(mm)
3001217	4"	105	3/4" 7/8"	20/22.23
3001218	4.5"	115	7/8"	22.23
3001219	5"	125	7/8"	22.23
3001220	6"	150	7/8"	22.23
3001222	7"	180	7/8"	22.23
3001223	9"	230	7/8"	22.23
	10"	250	7/8" 1/2"	22.23/50



► Designed for the quick repair of concrete cracks by smooth grooving.



Item Number	Outer Diameter		Inner Diameter	
	Inch	Metric(mm)	Inch	Metric(mm)
3001224	4"	105	3/4" 7/8"	20/22.23
3001225	4.5"	115	7/8"	22.23
3001226	5"	125	7/8"	22.23
3001227	6"	150	7/8"	22.23
3001228	7"	180	7/8"	22.23
3001229	9"	230	7/8"	22.23
3001230	10"	250	7/8" 1/2"	22.23/50



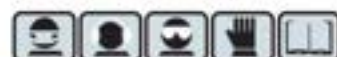
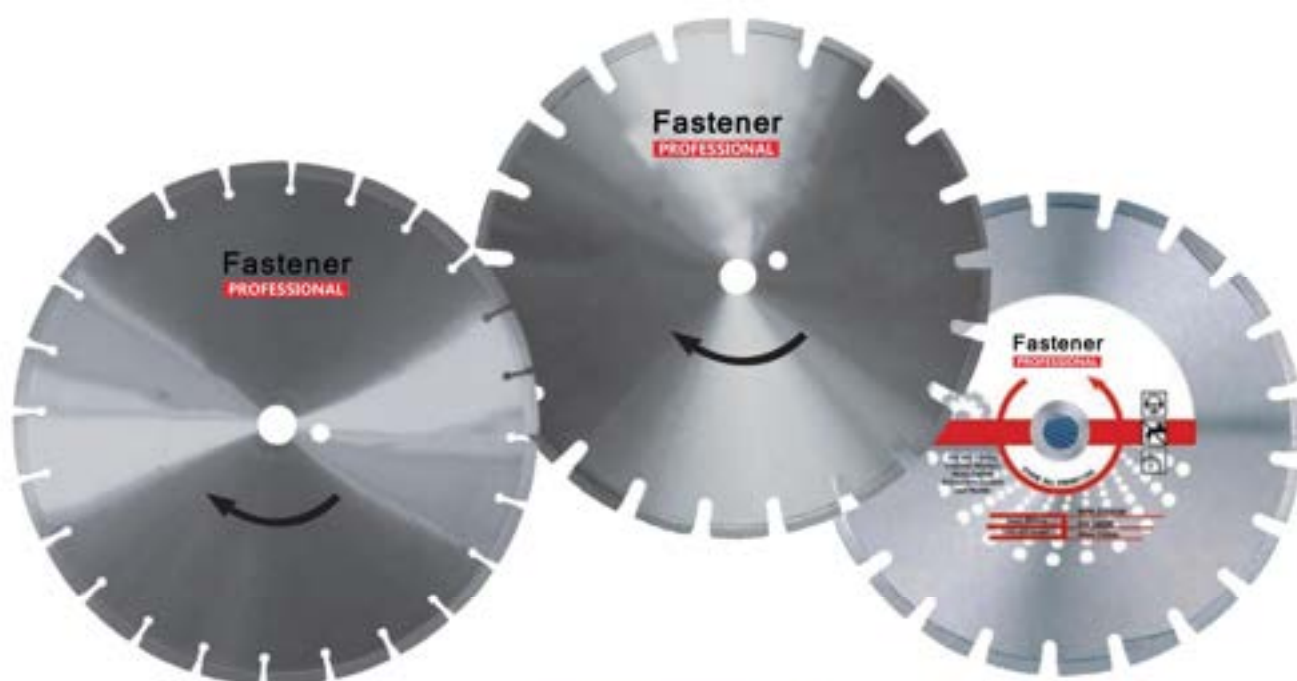
► The wide segments are specially designed for mortared expansion, joints and slotting granite, marble, concrete etc.



Item Number	Outer Diameter		Inner Diameter	
	Inch	Metric(mm)	Inch	Metric(mm)
3001231	4"	105	3/4" 7/8"	20/22.23
3001232	4.5"	115	7/8"	22.23
3001233	5"	125	7/8"	22.23
3001234	6"	150	7/8"	22.23
3001235	7"	180	7/8"	22.23
3001236	9"	230	7/8"	22.23
3001237	10"	250	7/8" 1/2"	22.23/50

Fastener Brazing Welded Diamond Saw Blade

► For very heavy duty cutting of concrete, asphalt, granite&marble.the high frequency electrical brazeing and tough segment design provide for exceptional performance and high productivity.



Item Number	Outer Diameter(D)		Inner Diameter(H)		Segment Dimension (T×H)
	Inch	Metric(mm)	Inch	Metric(mm)	
3001195	10"	250	7/8"11/16"-1/5"2"	22.23/25.4/30/50	3.0×8.0
3001196	12"	300	7/8"11/16"-1/5"2"	22.23/25.4/30/50	3.2×8.0
3001197	14"	350	7/8"11/16"-1/5"2"	22.23/25.4/30/50	3.4×8.0
3001198	16"	400	7/8"11/16"-1/5"2"	22.23/25.4/30/50	3.6×8.0
3001199	18"	450	2"	50	4.0×8.0
3001200	20"	500	2 3/8"	50/80	4.0×8.0
3001201	24"	600	2 3/8"	50/80	4.2×8.0
3001202	28"	700	2 3/8"	50/80	4.8×8.0
3001203	36"	900	3 1/4"	80/100	6.5×10.0
3001204	40"	1000	4"	100	7.0×10.0
3001205	48"	1200	4"	100	8.0×10.0

Fastener Laser Welded Diamond Saw Blade

► For very heavy duty cutting of concrete, asphalt, granite & marble. the high frequency electrical brazing and tough segment design provide for exceptional performance and high productivity.



Item Number	Outer Diameter(D)		Inner Diameter(H)		Segment Dimension (T×H)
	Inch	Metric(mm)	Inch	Metric(mm)	
3001206	10"	250	7/8"11/16"-1/5"2"	22.23/25.4/30/50	3.0×8.0
3001207	12"	300	7/8"11/16"-1/5"2"	22.23/25.4/30/50	3.2×8.0
3001208	14"	350	7/8"11/16"-1/5"2"	22.23/25.4/30/50	3.4×8.0
3001209	16"	400	7/8"11/16"-1/5"2"	22.23/25.4/30/50	3.6×8.0
3001210	18"	450	2"	50	4.0×8.0
3001211	20"	500	2 1/3"	50/80	4.0×8.0
3001212	24"	600	2 1/3"	50/80	4.2×8.0
3001213	28"	700	2 1/3"	50/80	4.8×8.0
3001214	36"	900	3 1/4"	80/100	6.5×10.0
3001215	40"	1000	4"	100	7.0×10.0
3001216	48"	1200	4"	100	8.0×10.0

Fastener Diamond Cup Grinding Wheel

Rough grinding, suitable for diamond of 30-60 grit. Intense grinding, suitable for diamond of 100-400 grit.



► For grinding and polishing granite, marble, concrete, masonry materials and all types of natural stone.



Item Number	Outer Diameter(D)		Inner Diameter(H)		Segment Dimension	Segment Number
	Inch	Metric(mm)	Inch	Metric(mm)		
3001238	4.3"	110	5/8" 7/8"	16/22.23	5×8×30	8
3001239	4.5"	115	5/8" 7/8"	16/22.23	5×8×30	9
3001240	5"	125	7/8"	22.23	5×8×30	10
3001241	7"	180	7/8"	22.23	5×8×37	12



► For grinding and polishing granite, marble, concrete, masonry materials and all types of natural stone.



Item Number	Outer Diameter(D)		Inner Diameter(H)		Segment Dimension	Segment Number
	Inch	Metric(mm)	Inch	Metric(mm)		
3001242	4"	105	5/8" 7/8"	16/22.23	5×8×30	14
3001243	4.5"	115	5/8" 7/8"	16/22.23	5×8×30	16
3001244	5"	125	7/8"	22.23	5×8×30	18
3001245	6"	150	7/8"	22.23	5×8×30	20
3001246	7"	180	7/8"	22.23	5×8×30	24



► For grinding and polishing granite, marble, concrete, masonry materials and all types of natural stone.



Item Number	Outer Diameter(D)		Inner Diameter(H)		Segment Dimension
	Inch	Metric(mm)	Inch	Metric(mm)	
3001247	4"	105	5/8" 7/8"	16/22.23	7×5/20×5
3001248	4.5"	115	5/8" 7/8"	16/22.23	7×5/20×5
3001249	5"	125	7/8"	22.23	7×5/20×5
3001250	6"	150	7/8"	22.23	7×5/20×5
3001251	7"	180	7/8"	22.23	7×5/20×5



► For grinding and polishing granite, marble, concrete, masonry materials and all types of natural stone.



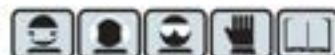
Item Number	Outer Diameter(D)		Inner Diameter(H)		Segment Dimension
	Inch	Metric(mm)	Inch	Metric(mm)	
3001252	4"	105	5/8" 7/8"	16/22.23	5×8
3001253	4.5"	115	5/8" 7/8"	16/22.23	5×8
3001254	5"	125	7/8"	22.23	5×8
3001255	6"	150	7/8"	22.23	5×8

Fastener Laser Welded Grinding Wheel

Laser welded grinding wheel are mainly used for grinding all kinds of hard stone, concrete, etc.



► Segmented cup wheel for grinding and polishing granite, marble, concrete etc.



Item Number	Outer Diameter(D)		Inner Diameter(H)		Segment Dimension (T×H×L)
	Inch	Metric(mm)	Inch	Metric(mm)	
3001256	4"	105	7/8"	22.23	5×8×30
3001257	4.5"	115	7/8"	22.23	5×8×30
3001258	5"	125	7/8"	22.23	5×8×30
3001259	6"	150	7/8"	22.23	5×8×30
3001260	7"	180	7/8"	22.23	5×8×30



► Suitable for grinding and polishing granite, marble, concrete etc.



Item Number	Outer Diameter(D)		Inner Diameter(H)	
	Inch	Metric(mm)	Inch	Metric(mm)
3001261	4"	105	7/8"	22.23
3001262	4.5"	115	7/8"	22.23
3001263	5"	125	7/8"	22.23
3001264	6"	150	7/8"	22.23
3001265	7"	180	7/8"	22.23



► Super turbo type for grinding and polishing granite, marble, concrete etc.



Item Number	Outer Diameter(D)		Inner Diameter(H)	
	Inch	Metric(mm)	Inch	Metric(mm)
3001266	4"	105	7/8"	22.23
3001267	4.5"	115	7/8"	22.23
3001268	5"	125	7/8"	22.23
3001269	6"	150	7/8"	22.23
3001270	7"	180	7/8"	22.23



► Turbo cup wheel with aluminum base for grinding granite, marble, concrete etc.



Item Number	Outer Diameter(D)		Inner Diameter(H)		Segment Dimension (T×H)
	Inch	Metric(mm)	Inch	Metric(mm)	
3001270	4"	105	3/4"	20	5×20
3001271	4.5"	115	M14 5/8" 7/8"	M14 1/6" 22.23	5×20
3001272	5"	125	M14 5/8" 7/8"	M14 1/6" 22.23	5×20
3001273	6"	150	M14 5/8" 7/8"	M14 1/6" 22.23	5×20
3001274	7"	180	M14 5/8" 7/8"	M14 1/6" 22.23	5×20

Fastener Laser Welded Grinding Wheel

Laser welded grinding wheel are mainly used for grinding all kinds of hard stone, concrete, etc.



► Arrow type cup wheel for grinding and polishing granite, marble, concrete etc.



Item Number	Outer Diameter(D)		Inner Diameter(H)	
	Inch	Metric(mm)	Inch	Metric(mm)
3001275	4"	105	7/8"	22.23
3001276	4.5"	115	7/8"	22.23
3001277	5"	125	7/8"	22.23
3001278	6"	150	7/8"	22.23
3001279	7"	180	7/8"	22.23



► Laser Welded Cup Wheel for grinding and polishing granite, marble, concrete etc.



Item Number	Outer Diameter(D)		Inner Diameter(H)	
	Inch	Metric(mm)	Inch	Metric(mm)
3001280	4"	105	7/8"	22.23
3001281	4.5"	115	7/8"	22.23
3001282	5"	125	7/8"	22.23
3001283	6"	150	7/8"	22.23
3001284	7"	180	7/8"	22.23



► Laser Welded Cup Wheel for grinding granite, marble, concrete etc.



Item Number	Outer Diameter(D)		Inner Diameter(H)		Segment Dimension	Segment Number
	Inch	Metric(mm)	Inch	Metric(mm)		
3001285	4.3"	110	7/8"	22.23	5×8×20	8
3001286	4.5"	115	7/8"	22.23	5×8×20	9
3001287	5"	125	7/8"	22.23	5×8×20	18
3001288	7"	180	7/8"	22.23	5×8×20	18



► T Shape Cup Wheel for grinding granite, marble, concrete and all types of natural stone.



Item Number	Outer Diameter(D)		Inner Diameter(H)		Segment Dimension (T×H×L)
	Inch	Metric(mm)	Inch	Metric(mm)	
3001289	4"	105	3/4"	20	5×8×30
3001290	4.5"	115	M14\5/8"7/8"	M14\16\22.23	5×8×30
3001291	5"	125	M14\5/8"7/8"	M14\16\22.23	5×8×30
3001292	6"	150	M14\5/8"7/8"	M14\16\22.23	5×8×30
3001293	7"	180	M14\5/8"7/8"	M14\16\22.23	5×8×30

Fastener

PROFESSIONAL

ABRASIVE FLAP DISCS



For grinding flat surfaces. Most efficient when used at an angle of 0° – 45°. Max. working speed 80 m/s.



Straight



Inclined

For contour and edge grinding. Most efficient when used at a wider angle of 15° – 25°. Max. working speed 80 m/s.

ALUMINIUM OXIDE

Suitable for medium to heavy duty applications on steel, nonferrous metals, and wood. High lamellar lining on glass fibre plate. Uniform grinding capacity, cool grinding and low noise level.



ZIRCONIUM OXIDE

Suitable for medium to heavy duty applications on all types of steel and metals. High lamellar lining on glass fibre plate. Uniform grinding capacity, cool grinding and low noise level.



Diameter x Bore, mm	Grit	Type	Pcs/Pack	Cat. №
100 x 16	40	Straight	1	20009578300
	60		1	20009578500
	80		1	20009578700
	120		1	20009578900
115 x 22.23	40	Straight	1	20009571900
	60		1	20009572000
	80		1	20009572100
	120		1	20009572200
125 x 22.23	40	Straight	1	20009572300
	60		1	20009572400
	80		1	20009572500
	120		1	20009572600
150 x 22.23	40	Straight	1	20009572700
	60		1	20009572800
	80		1	20009572900
	120		1	20009573000
180 x 22.23	40	Straight	1	20009573100
	60		1	20009573200
	80		1	20009573300
	120		1	20009573400
100 x 16	40	Inclined	1	20009578400
	60		1	20009578600
	80		1	20009578800
	120		1	20009579000
115 x 22.23	40	Inclined	1	20009573500
	60		1	20009573600
	80		1	20009573700
	120		1	20009573800
125 x 22.23	40	Inclined	1	20009573900
	60		1	20009574000
	80		1	20009574100
	120		1	20009574200
150 x 22.23	40	Inclined	1	20009574300
	60		1	20009574400
	80		1	20009574500
	120		1	20009574600
180 x 22.23	40	Inclined	1	20009574700
	60		1	20009574800
	80		1	20009574900
	120		1	20009575000

Diameter x Bore, mm	Grit	Type	Pcs/Pack	Cat. №
100 x 16	40	Straight	1	20009579100
	60		1	20009579300
	80		1	20009579500
	120		1	20009579700
115 x 22.23	40	Straight	1	20009575100
	60		1	20009575200
	80		1	20009575300
	120		1	20009575400
125 x 22.23	40	Straight	1	20009575500
	60		1	20009575600
	80		1	20009575700
	120		1	20009575800
150 x 22.23	40	Straight	1	20009575900
	60		1	20009576000
	80		1	20009576100
	120		1	20009576200
180 x 22.23	40	Straight	1	20009576300
	60		1	20009576400
	80		1	20009576500
	120		1	20009576600
100 x 16	40	Inclined	1	20009579200
	60		1	20009579400
	80		1	20009579600
	120		1	20009579800
115 x 22.23	40	Inclined	1	20009576700
	60		1	20009576800
	80		1	20009576900
	120		1	20009577000
125 x 22.23	40	Inclined	1	20009577100
	60		1	20009577200
	80		1	20009577300
	120		1	20009577400
150 x 22.23	40	Inclined	1	20009577500
	60		1	20009577600
	80		1	20009577700
	120		1	20009577800
180 x 22.23	40	Inclined	1	20009577900
	60		1	20009578000
	80		1	20009578100
	120		1	20009578200

Fastener Diamond Wet Polishing Pad

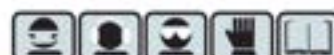
► Suitable for wet polishing , repairing granite and marble, renovating concrete, etc.



Item Number	Diameter (mm)	Diamond Grit
3001383	80	50#, 100#, 200#, 400#, 800#, 1500#, 3000# buff
3001384	100	50#, 100#, 200#, 400#, 800#, 1500#, 3000# buff
3001385	125	50#, 100#, 200#, 400#, 800#, 1500#, 3000# buff
3001386	150	50#, 100#, 200#, 400#, 800#, 1500#, 3000# buff

Fastener Diamond Dry Polishing Pad

► Suitable for dry polishing , repairing granite and marble, renovating concrete, etc.



Item Number	Diameter (mm)	Diamond Grit
3001387	80	50#, 100#, 200#, 400#, 800#, 1500#, 3000# buff
3001388	100	50#, 100#, 200#, 400#, 800#, 1500#, 3000# buff
3001389	125	50#, 100#, 200#, 400#, 800#, 1500#, 3000# buff
3001390	150	50#, 100#, 200#, 400#, 800#, 1500#, 3000# buff

Fastener Diamond Polishing Pad For Concrete Floor

► Resin bonded floor polishing pads, special formulated and aggressiv, no scratch and color be left on the ston, use Wet.



Item Number	Diameter (mm)	Thickness (mm)	Diamond Grit
3001391	80	10/12	50#, 100#, 200#, 400#, 800#, 1500#, 3000# buff



SANDING DISCS

Application	Diameter, mm	Grit	Cat. № (10 pcs)	Cat. № (50 pcs)
 Punched for dust extraction Hook & loop backing Aluminium oxide Suitable for a wide variety of application like removing small amounts of material, whole layers or just roughening the surface For sanding filler, drywall construction, plaster, wood, primers and paint	150	P 40	20009590609	20009590611
	150	P 60	20009590709	20009590711
	150	P 80	20009590809	20009590811
	150	P 100	20009590909	20009590911
	150	P 120	20009591009	20009591011
	150	P 150	20009591109	20009591111
	150	P 180	20009591209	20009591211
	150	P 220	20009591309	20009591311
	200	P 40	20009591409	20009591411
	200	P 60	20009591509	20009591511
	200	P 80	20009584209	20009584211
	200	P 100	20009584309	20009584311
	200	P 120	20009584409	20009584411
	200	P 150	20009584509	20009584511
	200	P 180	20009584609	20009584611
	200	P 220	20009584709	20009584711
	225	P 40	20009591609	20009591611
	225	P 60	20009591709	20009591711
	225	P 80	20009584809	20009584811
	225	P 100	20009584909	20009584911
	225	P 120	20009585009	20009585011
	225	P 150	20009585109	20009585111
	225	P 180	20009585209	20009585211
	225	P 220	20009585309	20009585311

SANDING DISCS

Application	Diameter, mm	Grit	Pcs/Pack	Cat. №
 Hook & loop backing Aluminium Oxide For effective dust extraction reducing clogging the disc surface Durable and longer-lasting than traditional paper products Suitable for all type of sanders and polishers For faster stock removal For sanding filler, putty, primers, lacquers, composite materials and wood	150	P 80	10	20009591809
	150	P 100	10	20009591909
	150	P 120	10	20009592009
	150	P 150	10	20009592109
	150	P 180	10	20009592209
	150	P 240	10	20009592309
	200	P 80	10	20009582209
	200	P 100	10	20009582309
	200	P 120	10	20009582409
	200	P 150	10	20009586809
	200	P 180	10	20009586909
	200	P 240	10	20009587009
	225	P 80	10	20009587109
	225	P 100	10	20009587209
	225	P 120	10	20009587309
	225	P 150	10	20009587409
	225	P 180	10	20009587509
	225	P 240	10	20009587609

FINISHING PAD

Application	Diameter, mm	Grit	Pcs/Pack	Cat. №
 Hook & loop backing Unique construction offers first class finish for wet and dry sanding and finishing Suitable for all type of sanders and polishers Allows continuous dust extraction over the entire pad surface For effective dust extraction reducing clogging the disc surface and aiding suction	200	P 40	10	20009582509
	200	P 60	10	20009582609
	200	P 80	10	20009582709
	200	P 100	10	20009582809
	200	P 120	10	20009582909
	200	P 150	10	20009583009
	200	P 180	10	20009583109
	200	P 220	10	20009583209
	225	P 40	10	20009586009
	225	P 60	10	20009586109
	225	P 80	10	20009586209
	225	P 100	10	20009586309
	225	P 120	10	20009586409
	225	P 150	10	20009586509
	225	P 180	10	20009586609
	225	P 220	10	20009586709

HOOK & LOOP POLISHING, CLEANING & FINISHING DISCS

POLISHING BONNET & PAD	Application	Diameter, mm	Pcs/Pack	Cat. No
	For buffing and final polishing Use with support pad	DRAWSTRING		
		Lambs wool polishing bonnet		
		160	1	20009801900
		200	1	20009800300
		Synthetic polishing bonnet		
		125	1	20009802500
		160	1	20009802600
		HOOK & LOOP		
		Lambs wool polishing bonnet		
		160	1	20009802700
		200	1	20009802800
		Synthetic polishing bonnet		
		125	1	20009584000
		160	1	20009800400

POLISHING FOAM PAD	Application	Diameter, mm	Pcs/Pack	Cat. No
	Hard wearing, medium density pad for polishing and compound applications. Use with support pad	200	1	20009800600

FOAM BACKING PAD	Application	Diameter, mm	Pcs/Pack	Cat. No
	Adapter for all types of hook & loop accessories Suitable for all Fastener drywall sanders	200	1	20009801300

SPONGE DISC	Application	Diameter, mm	Pcs/Pack	Cat. No
	Large surface finishing sponge for final finishing of traditional thin-coat gypsum, plaster, lime and cement based renders For wet and dry application Suitable for variable speed machines	200	1	20009800700
		EXTRA DURABLE		
		200	1	20009801000



Fastener Bow 1 Shape Brush

- Suitable for clean, polish, grinding the rust surface preparation for paint or welding .
Made of steel wire, stainless steel wire, brass-coated wire.



3001456



3001457



3001458

Fastener Cup Shape Brush

- Suitable for clean, polish, grinding the rust surface preparation for paint or welding .
Made of steel wire, stainless steel wire, brass-coated wire.



3001459



3001460



3001461

Fastener Wheel Shape Brush

- Suitable for clean, polish, grinding the rust surface preparation for paint or welding .
Made of steel wire, stainless steel wire, brass-coated wire.



3001462



3001463



3001464



TK 65 PROFESSIONAL

COMPACT & POWERFUL CIRCULAR SAWS





TK 40 PROFESSIONAL

TK 55 PROFESSIONAL

TK 63 PROFESSIONAL

- Safety switch
- Stageless adjustment of cutting depth
- Stageless adjustment for bevel cuts at 0°–45°
- Arbor lock button for quick blade change
- Guard lifting handle
- Riving knife (TK 40, TK 55, TK 63, TK 75)
- High quality TCT blade
- Soft-grip handle
- Fastener® laser cutting guide (TK 65, TK 85)
- Dust extraction port

TK 40	●	●	●	○	○	○
TK 55	●	●	●	○	○	○
TK 63	●	●	●	○	○	○
TK 65	●	●	●	○	●	●
TK 75	●	●	●	○	○	○
TK 85	●	●	●	○	●	●



TECHNICAL DATA		TK 40	TK 55	TK 63
Cutting capacity in 90°:	mm	40	55	63
Cutting capacity in 45°:	mm	35	40	45
Blade diameter:	mm	140	165	185
Blade hole diameter:	mm	20	20	20
Teeth:		18 TCT	24 TCT	36 TCT
No load rpm:	min ⁻¹	4200	4700	4800
Weight:	kg	3.4	4.5	5.6
Power input:	W	800 (230V-50Hz)	1200 (230V-50Hz)	1500 (230V-50Hz)
Comes complete with:		18 TCT Blade, Parallel fence guide, Hex wrench	24 TCT Blade, Parallel fence guide, Hex wrench	36 TCT Blade, Parallel fence guide, Hex wrench
Cat. No		13000162807	13000162907	13000163007

HEAVYDUTY



FSPE 110 • FSPE 111 **HD** PROFESSIONAL

- Electronic speed pre-selection
- Tool-free quick release blade change system
- Roller support guide
- Lock-on switch
- Adjustable base, 0°/15°/30°/45° bevel left or right
- Transparent blade guard
- Magnesium alloy gearbox
- Dust extraction adapter
- Auto-stop brushes

Cast aluminium base



Integrated wrench holder



Comes complete with: Blade, Hex wrench, Dust extraction adapter

TECHNICAL DATA		JW1	JW1A
Cutting depth in:			
- wood	mm	110	110
- non-ferrous metals	mm	20	20
- steel	mm	5	5
- ceramics	mm	10	10
No load stroke rate:	min ⁻¹	300-3200	300-3200
Bevel cutting angle:	°	0-45	0-45
Stroke length:	mm	26	26
Weight:	kg	1.9	2.1
Power input:	W	750	850
Cat. Nr		12000162201	12000162301

3 position pendulum action





2" PIPE HOLDER

For 90° cutting of pipes up to 2" in diameter.
Cat. № 20009686100



6" PIPE HOLDER

Chain clamping fixture can be used for cutting steel pipes up to 6" at a 90° angle.
Cat. № 20009686000



 Electronic speed pre-selection (TSB 1300CE)



TSB 1300C PROFESSIONAL

TSB 1300CE PROFESSIONAL

- For cutting of steel pipes, metal profiles, wood with nails and pallets
- Constant electronics to maintain cutting speed under load
- Constant pendulum action
- High performance, high efficiency motor
- Current overload protection
- Aluminium alloy gearbox with rubber coating
- Universal blade holder for all blades with 12.7 mm and 20 mm attachment
- Bore for pipe holder
- Ergonomic soft-grip handle
- Auto-stop brushes

Chain pipe holder

For cutting pipes up to 6 inch in diameter



Comes complete with: Carry case, 2 Blades, 2 inch pipe holder

Options (TSB 1300CE): 6 inch chain pipe holder, 6 inch blade, Cat. №: 10000162158 (230V EU)

TECHNICAL DATA

		TSB 1300C	TSB 1300CE
Cutting capacity in:			
- wood:	mm	200	200
- breeze block:	mm	120	120
- steel, PVC (pipes):	inches / mm	6 / 168	6 / 168
Stroke length:	mm	30	30
No load stroke rate:	min ⁻¹	2200	700-2200
Weight:	kg	3.5	3.6
Power input:	W	1300 (110V-50Hz; 230V-50Hz)	1300 (230V-50Hz)
Cat. №		10000161354 (230V EU) 10121161354 (110V UK); 10120161354 (230V UK)	10000162154 (230V EU) 10120162154 (230V UK)



P 160 PROFESSIONAL

P 282 PROFESSIONAL

PLANER BLADES

HSS – Blades forged from a premium grade high speed steel

TCT – Blades made of steel with tungsten-carbide tip



- Aluminium alloy base
- 2 V-grooves for chamfering of edges
- High no load rpm for precise finish
- Adjustable planning depth
- Bi-directional switch lock (P 282)
- Ergonomic soft-grip handle
- Adjustable parallel fence guide (P 282)
- Live tool indicator when plugged into the power supply (P 282)
- Blade protection stand
- Rebate facility
- Dust extraction adapter with dust bag or suitable vacuum cleaner
- Integral wrench and blade storage



Bi-directional dust/shavings extraction with dust bag (P 282)



Comes complete with: Parallel fence guide (P 282), Wrench, Dust extraction adapter, Dust collection bag

TECHNICAL DATA		P 160	P 282
Planning depth:	mm	0–1.5	0–2
Planning width:	mm	60	82
No load rpm:	min ⁻¹	16000	16000
Weight:	kg	1.8	3.5
Power input:	W	450 (230V–50Hz)	720 (230V–50Hz)
Cat. No		13000151104	13000151004



P 382 PROFESSIONAL

- Aluminium alloy base
- 2 V-grooves for chamfering of edges
- 3 blade barrel for efficient removal of material
- High no load rpm for precise finish
- Adjustable planning depth
- Ergonomic soft-grip handle

Bi-directional dust/shavings extraction with dust bag



P 382



P 3110 PROFESSIONAL

- Adjustable parallel fence guide
- Rebate facility
- Dust extraction adapter with dust bag or suitable vacuum cleaner
- Blade protection stand (P 3110)
- Integral wrench and blade storage



P 3110

Comes complete with: Carry case, Parallel fence guide, Replacement blades, Replacement belt, Dust extraction adapter, Dust collection bag

TECHNICAL DATA		P 382
Planning depth:	mm	0.1–3
Planning width:	mm	82
No load rpm:	min ⁻¹	18000
Weight:	kg	3.0
Power input:	W	750 (230V–50Hz)
Cat. Nr		13000150850

Comes complete with: Parallel fence guide, Wrench, Dust extraction adapter

TECHNICAL DATA		P 3110
Planning depth:	mm	0–3
Planning width:	mm	110
No load rpm:	min ⁻¹	16000
Weight:	kg	4.5
Power input:	W	1000 (230V–50Hz)
Cat. Nr		13000151205



TV 1835 PROFESSIONAL

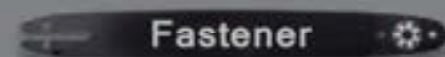
TV 2040 PROFESSIONAL

TV 2245 PROFESSIONAL

BAR AND CHAIN

Guide Bar:

- Solid steel body
- Specially heat-treated and tempered
- Precision design and fitting



Chains:

- Durable, fast-working cutting chain
- Re-sharpenable



- Auto-stop chain brake during kickback situation
- Safety switch to avoid accidental starting
- Soft-grip front handle (TV 2040)
- Soft-grip rear handle (TV 2040, TV 2245)
- Low kickback chain with automatic lubrication
- Safety chain brake
- Safety clutch
- Oil level indicator
- Tool free chain tensioner

5 steel teeth for secure support against the trunk and safe operation



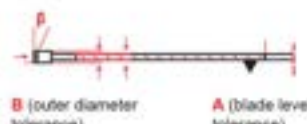
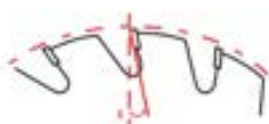
Comes complete with: Guide bar, Chain, Chain sheath, Tube of oil, Hex wrench

TECHNICAL DATA		TV 1835	TV 2040	TV 2245
Bar length:	mm	350	400	450
Chain speed:	m/sec	13.5	13.5	13.5
No load speed	min ⁻¹	7600	8000	7600
Chain:	Inch	3/8	3/8	3/8
Chain gauge:	mm	1.3	1.3	1.3
Oil tank capacity:	ml	100	400	200
Drive sprocket	–	Replaceable	Replaceable	Replaceable
Auto-stop chain brake: front guard activated / inertia activated :		yes	yes	yes
Power input:	W	1800 (230V-50Hz)	2000 (230V-50Hz)	2200 (230V-50Hz)
Weight:	kg	4.3	5.0	5.4
Cat. No		13000163206	13000163306	13000163406

CIRCULAR SAW BLADES



- Tungsten-carbide tip
- Hardened steel body
- Slots for heat compensation
- Tip material YG8



Model	D-Diameter, mm	d-Bore, mm	Number of teeth	Cutting width, mm	Tip size, mm	A, mm	B, mm	α	β	Cat. Number
Coarse cutting: For cross and parallel cutting in soft and hard wood, boards.										
T12	150	20	12	2.5	5.5x2.0x2.5	≤ 0.15	≤ 0.12	10°-15°	12°±1°	20009520000
T18	140	20	18	2.5	4.0x1.2x2.4	≤ 0.25	≤ 0.50	17°-19°	10°±1°	20009522200
T20	200	30	20	2.8	5.5x2.0x2.7	≤ 0.15	≤ 0.12	10°-15°	12°±1°	20009520100
T24	140	20	24	2.5	4.0x1.2x2.4	≤ 0.25	≤ 0.50	17°-19°	10°±1°	20009522900
T24	165	20	25	2.5	4.0x1.2x2.4	≤ 0.25	≤ 0.50	20°-22°	10°±1°	20009522300
T24	185	20	24	2.5	5.5x2.0x2.5	≤ 0.15	≤ 0.12	10°-15°	12°±1°	20009520200
T24	250	30	24	2.8	4.5x1.2x2.8	≤ 0.25	≤ 0.50	18°-20°	10°±1°	20009522600
T30	235	30	30	2.8	6.0x2.0x2.8	≤ 0.15	≤ 0.15	10°-15°	12°±1°	20009520300
T30	305	30	30	3.0	5.0x1.4x3.0	≤ 0.25	≤ 0.50	16°-18°	10°±1°	20009522500
T32	305	30	32	3.0	5.0x1.4x3.0	≤ 0.25	≤ 0.50	16°-18°	10°±1°	20009523700
Medium cutting: For cross and parallel cutting in soft and hard wood, fiberboard, furniture boards, laminated boards and wood flooring.										
T36	140	20	36	2.5	5.5x2.0x2.5	≤ 0.15	≤ 0.12	10°-15°	12°±1°	20009523000
T36	150	20	36	2.5	5.5x2.0x2.5	≤ 0.15	≤ 0.12	10°-15°	12°±1°	20009520400
T36	165	20	36	2.5	5.5x2.0x2.7	≤ 0.15	≤ 0.12	10°-15°	12°±1°	20009523100
T36	185	20	36	2.5	6.0x2.0x2.8	≤ 0.15	≤ 0.15	10°-15°	12°±1°	20009520600
T36	200	30	36	2.7	6.0x2.0x3.0	≤ 0.20	≤ 0.20	10°-15°	12°±1°	20009520500
T48	235	30	48	2.4	6.0x2.0x3.0	≤ 0.20	≤ 0.20	10°-15°	12°±1°	20009521000
T48	305	30	48	3.0	6.5x2.0x3.2	≤ 0.20	≤ 0.20	10°-15°	12°±1°	20009520800
Fine cutting: For cross and parallel cutting in soft and hard wood, fiberboard, furniture boards, laminated boards and wood flooring.										
T48	165	20	48	2.5	4.0x1.2x2.4	≤ 0.20	≤ 0.50	21°-23°	10°±1°	20009523200
T48	185	20	48	2.4	5.5x2.0x2.5	≤ 0.15	≤ 0.12	10°-15°	12°±1°	20009521100
T48	200	30	48	2.7	5.5x2.0x2.7	≤ 0.15	≤ 0.12	10°-15°	12°±1°	20009521400
T48	210	30	48	2.5	4.0x1.2x2.4	≤ 0.20	≤ 0.50	14°-16°	10°±1°	20009522400
T48	250	30	48	2.8	4.5x1.2x2.8	≤ 0.20	≤ 0.50	16°-18°	10°±1°	20009522700
T60	235	30	60	2.4	4.0x1.2x2.4	≤ 0.20	≤ 0.50	15°-17°	10°±1°	20009521900
T60	250	30	60	2.8	6.0x2.0x2.8	≤ 0.15	≤ 0.15	10°-15°	12°±1°	20009521200
Very fine cutting: For cross and parallel cutting in soft and hard wood, fiberboard, furniture boards, laminated boards and wood flooring.										
T56	200	30	60	2.7	5.5x2.0x2.7	≤ 0.15	≤ 0.12	10°-15°	12°±1°	20009521500
T60	210	30	60	2.5	4.0x1.2x2.4	≤ 0.15	≤ 0.50	18°-20°	10°±1°	20009523300
T60	305	30	60	3.0	5.0x1.4x3.0	≤ 0.15	≤ 0.50	14°-16°	10°±1°	20009522800
T80	235	30	80	2.7	4.0x1.2x2.4	≤ 0.15	≤ 0.50	14°-16°	10°±1°	20009522000
T80	250	30	80	2.7	4.5x1.2x2.8	≤ 0.15	≤ 0.50	14°-16°	10°±1°	20009522100
T80	305	30	80	3.0	6.0x2.0x3.0	≤ 0.20	≤ 0.20	10°-15°	12°±1°	20009521600
Very fine cutting in various materials: Plastic, non-ferrous metals - aluminium, brass, copper.										
T100	250	30	100	2.8	6.0x2.0x2.8	≤ 0.15	≤ 0.15	0°-3°	12°±1°	20009521700
T100	305	30	100	3.0	6.0x2.0x3.0	≤ 0.20	≤ 0.20	10°-15°	12°±1°	20009521800
T120	305	30	120	2.8	6.0x2.0x3.0	≤ 0.20	≤ 0.20	10°-15°	12°±1°	20009523500

Fastener TCT Saw Blades For Cutting Aluminium

► TCG-Triple Chip Ground Teeth-For cutting aluminium and Non-ferrous Materials, with fully hardened polished body and fish-hook expansion slots for quieter, cleaner & more efficient cutting. the hook angle and gring combine to give better swarf clearance.



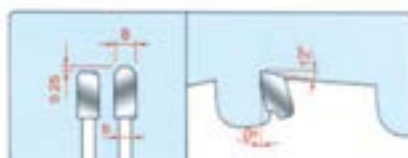
Item Number	Diameter		Body Thickness (mm)	Kerf (mm)	Hole Diameter (mm)	(Z) Teeth
	Inch	Metric(mm)				
3001392	4"	110	1.2	1.8	20	40T
3001393	5"	125	1.2	1.8	20	40T
3001394	6"	150	1.3	2.0	20/25.4	60T
3001395	7"	180	1.3	2.2	20/25.4	60T
3001396	7"	180	1.3	2.2	20/25.4	80T
3001397	8"	200	1.5	2.2	20/25.4	80T
3001398	8"	200	1.5	2.2	20/25.4	100T
3001399	9"	230	1.6	2.3	20/25.4	80T
3001400	9"	230	1.6	2.3	20/25.4	100T
3001401	10"	250	2.0	3.0	20/25.4	80T
3001402	10"	250	2.0	3.0	20/25.4	100T
3001403	10"	250	2.0	3.0	20/25.4	120T
3001404	12"	300	2.0	3.0	25.4/30	80T
3001405	12"	300	2.0	3.0	25.4/30	100T
3001406	12"	300	2.0	3.0	25.4/30	120T
3001407	14"	350	2.2	3.2	25.4/30	100T
3001408	14"	350	2.2	3.2	25.4/30	120T
3001409	16"	400	2.5	3.5	25.4/30	100T
3001410	16"	400	2.5	3.5	25.4/30	120T



Fastener TCT Saw Blades For Cutting Ferrous Metal & Stainless Steel



Item Number	Diameter		Body Thickness (mm)	Kerf (mm)	Hole Diameter (mm)	(Z) Teeth
	Inch	Metric(mm)				
3001411	4 1/2"	115	1.7	2.2	16/20	24-40T
3001412	7"	185	1.7	2.2	16/20	40-60T
3001413	8"	200	1.7	2.2	16/20	60-80T
3001414	9"	230	1.7	2.2	20/25.4	60-80T
3001415	10"	255	1.7	2.2	20/25.4	80-120T
3001416	12"	305	1.8	2.2	20/25.4	80-120T
3001417	14"	355	1.8	2.2	25.4	80-120T

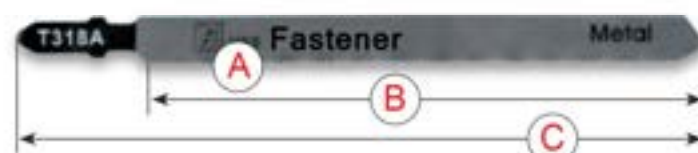


JIG SAW BLADES FOR METAL



HSS - Fully hardened high-speed steel blades for use in metal, aluminium and non-ferrous metal.

They are harder and more wear resistant than carbon steel blades, although a little less flexible.



Type	Tooth spacing (A) x Cutting length (B) x Total length (C), mm	Shank	Application	Pcs/ Pack	Cat. №	Cat. № (2 Pcs/Pack)
T118A	1.2 x 50 x 76	T-Shank	Straight cutting in thin materials, ideal for thin sheet metals, non-ferrous metals, aluminium	5	20009500004	20009500001
U118A	1.2 x 50 x 76	U-Shank	Straight cutting in thin materials, ideal for thin sheet metals, non-ferrous metals, aluminium	3	20009502602	20009502601
T118B	2 x 50 x 76	T-Shank	Straight cutting in thick materials, ideal for thick sheet metals, non-ferrous metals, aluminium	5	20009500104	20009500101
T118G	0.8 x 50 x 76	T-Shank	Straight cutting in very thin materials, ideal for very thin sheet metals, non-ferrous metals, aluminium	5	20009500204	20009500201
U118G	0.8 x 50 x 76	U-Shank	Straight cutting in very thin materials, ideal for very thin sheet metals, non-ferrous metals, aluminium	3	20009502702	20009502701
T318A	1.2 x 110 x 132	T-Shank	Straight cutting in materials with fillings, non-ferrous metals, aluminium	5	20009500304	20009500301
U318A	1.2 x 110 x 132	U-Shank	Straight cutting in materials with fillings, non-ferrous metals, aluminium	3	20009502402	20009502401
T127D	3 x 75 x 100	T-Shank	Straight cutting in aluminium, non-ferrous metals, fibreglass reinforced plastics	5	20009500404	20009500401
U127D	3 x 75 x 100	U-Shank	Straight cutting in aluminium, non-ferrous metals, fibreglass reinforced plastics	3	20009502802	20009502801
T227D	3 x 75 x 100	T-Shank	Curved cutting in aluminium, non-ferrous metals, fibreglass reinforced plastics	5	20009500504	20009500501
T318B	2 x 100 x 132	T-Shank	Straight and curved cutting in metal, non-ferrous metal and aluminium	5	20009500604	20009500601

JIG SAW BLADES FOR WOOD



HCS - Carbon steel blades for use in softer materials such as wood, laminated chipboard and plastics. General use flexible woodworking blades.

Type	Tooth space (A) x Cutting length (B) x Total length (C), mm	Shank	Application	Pcs/ Pack	Cat. №	Cat. № (2 Pcs/Pack)
T101B	2.5 x 75 x 100	T-Shank	Clean and precise cutting, ideal for hardwood, softwood, laminated boards, fibre boards and plastics	5	20009505004	20009505001
U101B	2.5 x 75 x 100	U-Shank	Clean and precise cutting, ideal for hardwood, softwood, laminated boards, fibre boards and plastics	3	20009502502	20009502501
T101D	4 x 75 x 100	T-Shank	Clean and precise cutting, ideal for hardwood, softwood, laminated boards, fibre boards and plastics	5	20009505104	20009505101
T111C	3 x 75 x 100	T-Shank	Fast and straight cutting, ideal for hardwood, softwood and plastics	5	20009505204	20009505201
T144D	4 x 75 x 100	T-Shank	Fast and straight cutting, ideal for hardwood, softwood and laminated boards	5	20009505304	20009505301
U144D	4 x 75 x 100	U-Shank	Fast and straight cutting, ideal for hardwood, softwood and laminated boards	3	20009502902	20009502901
3104-XL 5	4 x 120 x 152	T-Shank	Ideal for straight, parallel cuts High-speed cuts in hardwood, softwoods and chipboard	5	20009503204	20009503201
T244D	4 x 75 x 100	T-Shank	Fast curved cutting, ideal for hardwood, softwood and laminated boards	5	20009505404	20009505401
T119BO	2 x 50 x 76	T-Shank	Especially for curved cutting, ideal for epoxy, hardwood, softwood, laminated boards, insulated and heat insulation materials and plastics	5	20009505504	20009505501
T301CD	4 x 90 x 116	T-Shank	Clean and precise cutting, ideal for hardwood, softwood, laminated boards, fibre boards and plastics	5	20009505604	20009505601



Type	Tooth space (A) x Cutting length (B) x Total length (C), mm	Shank	Application	Pcs/ Pack	Cat. №	Cat. № (2 Pcs/Pack)
U301CD	3 x 90 x 116	U-Shank	Clean and precise cutting, ideal for hardwood, softwood, laminated boards, fibre boards and plastics	3	20009503102	20009503101
U101AO	1.4 x 50 x 76	U-Shank	Clean and precise curved cutting, ideal for hardwood, softwood, laminated boards, fibre boards and plastics	3	20009502302	20009502301
T101AO	1.4 x 50 x 76	T-Shank	Clean and precise curved cutting, ideal for hardwood, softwood, laminated boards, fibre boards and plastics	5	20009505704	20009505701
T101BR	2.5 x 75 x 100	T-Shank	Clean and precise straight cutting, ideal for hardwood, softwood, laminated boards, fibre boards and plastics	5	20009505804	20009505801
U101BR	2.5 x 75 x 100	U-Shank	Clean and precise straight cutting, ideal for hardwood, softwood, laminated boards, fibre boards and plastics	3	20009503002	20009503001
T101BF	2.5 x 75 x 100	T-Shank	Clean and precise straight cutting, ideal for hardwood, softwood, laminated boards, fibre boards and plastics	1	20009501100	20009501101
T311C	2.75 x 100 x 126	T-Shank	Clean and precise straight cutting, ideal for hardwood, softwood and laminated boards	5	20009505904	20009505901
T225B	2.75 x 225 x 250	T-Shank	Clean and precise straight cutting, ideal for hardwood, softwood and laminated boards	3	20009506002	20009506001

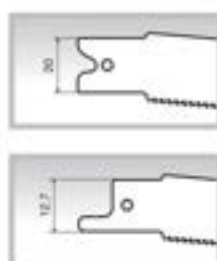
JIG SAW BLADE SETS

Contents	Pcs/Pack	Cat. №
① Set of one blade each: T101AO, T101BR, T101B. For wood.	3	20009500714
② Set of one blade each: T118G, T101B, T144D. For wood and metal.	3	20009501014
③ Set of one blade each: T111C, T101D, T119BO. For wood and metal.	3	20009500914
④ Set of one blade each: T101AO, T101BR, T101B, T101D/T118A. For wood and metal.	5	20009500814
⑤ Set of 2 T101BF	2	20009501101



SABRE SAW BLADES

Bi-Metal - blades combine the best of carbon steel and high speed steel blades. Highly flexible and tough, they are suitable for the most demanding applications where there is a risk of shank breakage. These blades can be used for wood, metal, non-ferrous metals and aluminium. Depending on the width of the blade, they are suitable for narrow curved cuts, general tasks with above-average load or quick, clean straight cuts.



Cutting length, mm	Tooth space, mm	Thickness, mm	Fitting dimension, mm	Material	Application	Pcs/Pack	Cat. №
140	2.5	0.95	20	BiM	Steel pipes	2	20009501301
140	3.2	0.95	20	BiM	Steel pipes	2	20009501401
200	3.2	0.95	20	BiM	Steel pipes	2	20009501501
150	1.8	0.95	20	BiM	Universal for metal, wood with nails, pallets etc.	2	20009501601
150	2.5	0.95	20	BiM	Universal for metal, wood with nails, pallets etc.	2	20009501701
300	1.8	0.95	20	BiM	Universal for metal, wood with nails, pallets etc.	2	20009501801
300	2.5	0.95	20	BiM	Universal for metal, wood with nails, pallets etc.	2	20009501901
150	1.8	0.95	12.7	BiM	Metal	2	20009502001
150	2.5	0.95	12.7	BiM	Universal for metal, wood with nails, pallets etc.	2	20009502101
300	4	0.95	12.7	HCS	Wood	2	20009502201



HEAVYDUTY



BM2 1060CE Plus **HD** PROFESSIONAL

BM2 1360CE Plus **HD** PROFESSIONAL

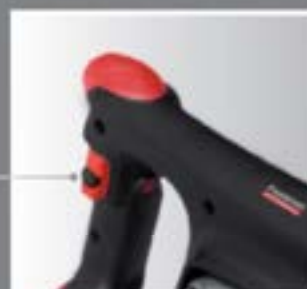
- Variable speed control with soft start
- Synchronised metal 2-speed metal gears for handling widest spectrum of mixing jobs with professional ease
- Constant electronics to maintain speed under load
- Safety restart cut out
- Lock-on switch
- Magnesium alloy gearbox
- Wrap round handle for perfect balance
- Added handle impact protection
- Auto-stop brushes



Synchronised metal 2-speed gears for handling widest spectrum of mixing jobs with professional ease



Variable speed control with soft start



Comes complete with: BM2 1060CE Plus: Paddles SM 120x570 and SM 121x570, Spanner SW22
BM2 1360CE Plus: Paddle SM 140x570, Spanner SW22

TECHNICAL DATA		BM2 1060CE Plus	BM2 1360CE Plus
No load rpm:	min ⁻¹	0-530 / 0-740	0-550 / 0-770
Max. torque:	Nm	55	60
Journal diameter:	mm	43 / L22	43 / L22
Spindle thread:		M14, internal	M14, internal
Weight:	kg	4.6	4.9
Power input:	W	1010 (110V-50Hz) 1050 (230V-50Hz)	1260 (110V-50Hz); (230V-50Hz)
Cat. No		12000200402 (230V EU)	12000203611 (230V EU)
		12021200402 (110V UK)	12021203611 (110V UK)
		12020200402 (230V UK)	12020203611 (230V UK)

**HAG 2000** PROFESSIONAL

- For dust-free removing of paint and surface treatments
- For crimping cable ends
- For drying fresh varnished coats
- Ergonomic soft-grip handle

Three air flow settings



HAG 2000E:
Temperature control button

**HAG 2000E** PROFESSIONAL

HAG 2000ED:
Temperature control buttons
LCD display

**HAG 2000ED** PROFESSIONAL

REDUCTION NOZZLE



GLASS PROTECTION NOZZLE



REFLECTOR NOZZLE



FLAT NOZZLE



TRIANGULAR SCRAPER



TECHNICAL DATA		HAG 2000	HAG 2000E	HAG 2000ED
Air flow:	l/min	I: 350 / II: 350 / III: 500	I: 300 / II: 300 / III: 500	I: 300 / II: 300 / III: 500
Heat settings at the nozzle:	°C	I: 60 / II: 350 / III: 550	I: 60 / II: 60-550 / III: 60-550	I: 50 / II: 70-600 / III: 70-600
Weight:	kg	0.76	0.76	0.76
Power input:	W	2000	2000	2000
Cat. Nr		13000204915	13000204853	13000204651



Fastener Road Cutter



Used for highway, municipal construction and other departments slit or damaged pavement repair, cutting pavement contraction joint.

- HONDA gasoline or diesel engine, famous brand, quality assurance, superior performance, easy to start;
- Spindle bearing using the international famous ball bearing for the heart, which can ensure the machine to adapt to strong load, high speed working condition;
- Adopt thickened material to ensure the thickness of the machine;
- No power limit, easy to operate.



Enlarged Bearing, Reinforced Power Shaft

Main Technical Parameters

Model	FRC-400	FRC-500	FRC-500C
Engine	HONDA GX270	HONDA GX390	CF186
Power	9HP	13HP	9HP
Blade diameter	Φ 400mm	Φ 500mm	Φ 500mm
Cutting depth	150mm	170mm	170mm
Water Tank	40L	45L	45L
Starting Mode	Hand	Hand	Hand/Electric
Package Size	1450x1000x1100mm	1450x1000x1100mm	1450x1000x1100mm
Net Weight	130kg	135kg	145kg
Code	20031000	20032000	20033000

Fastener Drilling Rig Machine

It is used to drill engineering sampling and hole of fixed protective rail for the highway and municipal foundation.

- ⦿ Famous brand engine, stable performance;
- ⦿ Unique frame mechanism, work steadily and move conveniently.

Main Technical Parameter

Model	FDRM-20
Engine	B&S.219802
Power	10.5HP
Drilling Diameter	100~200mm
Speed	1400rpm
Weight	175kg
Package Size	1400x900x1500mm
Code	20017700



Fastener Gasoline Tamping Rammer

Gasoline tamping rammer is used for tamping of engineering foundation and groove backfill in the field of road, public project, telecom, gas, water delivery, railway and so on.

- ⦿ HONDA engine, excellent performance;
- ⦿ High strength spring, large amplitude jump and strong pounding power ;
- ⦿ High strength base plate design, the hardness and softness is moderate, durable.

Main Technical Parameters

Model	FGTR-80
Jumping height	45~70mm
Tamping frequency	300~600/min
Plate size	275x330mm
Power	5.5HP
Tamping power	80N.m
Operate weight	82kg
Package Size	950x500x620mm
Code	20031000



Fastener Plate Compactor



FPC-30



FPC-20

It is suitable for compacting at the edges of road, abutment channel, groove in narrow trenches.

- ⑤ HONDA engine, excellent performance, easy to start;
- ⑤ The installation of hang shock-absorbing damper, adopt powerful independent suspension type shock absorbing mechanism, reduce attack to the engine and operate comfortably.
- ⑤ Forward and backward hydraulic control, which is flexible and convenient.
- ⑤ Gravity point lower, steady working condition, disposing small shifting car and hook, which is comfortable for the operators to change working directions.

Main Technical Parameters

Model	FPC-20	FPC-30	FPC-30C	FPC-160
Engine Model	GX160	GX160/GX270	CF170/CF178	Y112
Power	5.5HP	5.5HP/9.0Hp	5.0HP/6.0Hp	4KW
Working area	430X550mm	500X690mm	500X690mm	400X300mm
Walking Mode	Forward	Machanical Reversible	Machanical Reversible	Reversible
Exciting Force	20KN	30KN	30KN	30KN
Vibration Frequency	70HZ	70HZ	70HZ	62HZ
Gradeability	25%	25%	25%	25%
Starting Mode	Hand	Hand	Hand and Electric	Electric
Package Size	760X520X700mm	780X560X1060mm	780X560X1060mm	750X460X700mm
Net Weight	85kg	160kg/175kg	160kg/175kg	160kg
Code	20013200	20013300	20013400	20013500

Fastener Surface Finishing Screed

Used for vibrating and leveling on small concrete surface area.

- With famous gasoline engine, superior performance.
- Light and flexible, easy to operate.

Main Technical Parameters

Model	FSFS-24
Dynamic Model	GX35
Working Width	1-4m
Weight	25kg
Code	20013600



Fastener Concrete Vibrator

It is used for vibrating concrete in beam column, road and prefabricate part.

- HONDA engine, excellent performance, easy to start;
- High vibratory frequency, good vibratory performance;
- No power limit, easy to move.

Main Technical Parameters

Model	FCV-55	FCV-55C
Engine	HONDA GX160	CF170
Power	5.5HP	5.0HP
Vibrating Frequency	60HZ	60HZ
Flexible Shaft Diameter	Φ 50mm	Φ 50mm
Weight	25kg	30kg
Package Size	480x580x580mm	480x580x580mm
Code	20013700	20013800



Fastener Concrete Trowel Machine

It is mainly used for lifting, vibrating, sliding, troweling in concrete pavement.

- HONDA engine, excellent performance, easy to start.
- Max module transmission, aluminum alloy box, no maintenance, and long serving life.
- Blade arm support, and strictly heat-treated structural steel, which is sturdy and durable.
- Centrifugal clutch driving mechanism, which has the advantages of large transmission torsion torque and long serving life, no maintenance.



FCTM-30S



FCTM-24



FCTM-30/36B

Main Technical Parameters

Model	FCTM-24	FCTM-30/36B	FCTM-30S
Engine Model	GX160	GX160	GX630/690
Power	5.5HP	5.5HP	20HP/24HP
Working Diameter	Ø 60cm	Ø 80/100cm	Ø 100cmx2
Weight	55kg	100kg	330kg
Package Size	700x700x690mm	1150x1150x680mm	2010x1150x1100mm
Code	20013850	20013900	20013950



918 Roll Groover

Capacity: Steel: 1" - 12"

Copper: 2" - 6"

Stainless Steel: 1 1/4" - 12"

Hydraulic roll groover to form standard roll grooves on steel pipe or copper tube.



Features

- Designed for job-site requirements.
- Easy roll set change out.
- Features a 2-stage 15 ton hydraulic RAM.
- Supplied standard with 2" - 12" roll set for steel.

Standard equipment

- One (1) 2" - 6" Roll Set.
- One (1) 8" - 12" Roll Set.
- Tools for Roll Set Change.
- One (1) Carrying case for Roll Sets.

Code	Description	Weight kg	Std. Pack
2011531	918 Only 2" - 12"	41,5	1
2011532	918 Groover on 300 Base 2" - 12"	45,0	1
2011533	918 Groover on 1233 / 300 Compact Base 2" - 12"	58,0	1
2011534	918 Groover on 1233 / 300 Compact Base 2" - 6"	51,0	1
2011535	918 Groover on 535 Base 2" - 12"	52,0	1
2011536	918 Groover on 1224 Base 2" - 12"	59,0	1
2011537	918 Only 2" - 6"	32,0	1

Accessories

Code	Description	Weight kg	Std. Pack
2011538	300 Base Kit for 918	4,0	1
2011539	1233 / 300 Compact Base Kit for 918	10,0	1
2011540	1224 Base Kit for 918	16,4	1
2011541	535 Base Kit for 918	10,0	1
2011542	Roll and Groove Set 1", 1 1/4", 1 1/2"	22,0	1
2011543	Roll and Groove Set 1 1/4", 1 1/2"	17,0	1
2011544	Mounting Kit for 1822	17,0	1
2011545	Roll Set 2" - 6"	5,7	1
2011546	Groove Set 2" - 6"	3,2	1
2011547	Roll and Groove Set 8" - 12"	10,0	1
2011548	Roll and Groove Set Copper 2" - 6"	8,4	1
2011549	Stabilizer kit for 300, 1233 / 300C and 1224	4,8	1
2011550	Box Wrench	0,5	1
2011551	Hydraulic Oil (946 ml)	0,9	1

Pipe wall thickness		Nominal inch	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	6"	8"	10"	12"	
		Schedule 10 - mm (inch)	2,8 (109)	2,8 (109)	2,8 (109)	2,8 (109)	3,0 (120)	3,0 (120)	3,4 (134)	3,4 (134)	3,8 (148)	4,2 (165)	4,8 (188)	
		Schedule 40 - mm (inch)	3,4 (133)	3,6 (141)	3,7 (146)	3,9 (154)	5,2 (203)	5,5 (216)	6,0 (237)	7,1 (281)	8,2 (322)	9,3 (365)	10,3 (407)	
Pipe diameter		Nominal metric mm	25,00	32,00	40,00	50,00	65,00	80,00	100,00	150,00	200,00	250,00	300,00	
		Actual O.D. metric mm	33,40	42,16	48,26	60,33	73,03	88,90	114,30	168,28	219,08	273,05	323,85	
Model No.	Machine	Material												
F198	Fastener	Steel mm	DIN 2440, 2441, 2448, 2458 up to maximum 7,1 wall thickness											
		Stainless steel mm	Up to maximum 5,6 wall thickness											
		Use roll set	48407				Standard Equipment / 49217 + 51432					48405		
			48412											
		Copper	ISO 274 / EN 1057											
		Use roll set	48417											

F198 Roll Groover

Capacity: Steel: 1" - 12"

Copper: 2" - 6"

Stainless Steel: 1 1/4" - 12"

Integral hydraulic roll groover with universal motor to form standard roll grooves on steel pipe or copper.



Features

- Powered by a HD universal motor.
- Heavy-duty transmission.
- Features a 2-stage 15 ton hydraulic RAM.
- Rugged wheel stand built for mobility in the shop without compromising stability.

Standard equipment

- One (1) 2" - 6" Roll Set.
- One (1) 8" - 12" Roll Set.
- One (1) Tools for Roll Set Changeout.
- One (1) Carrying case for Roll Sets.
- One (1) Heavy-Duty Wheel Stand with Tray.
- One (1) Foot Switch.
- One (1) 1" - 12" Stabilizer for Grooving Nipples.

Code	Description	Weight kg	Std. Pack
2011553	F198 Roll Groover 230 V	84,0	1
2011554	F198 Roll Groover 115 V	84,0	1

Accessories

Code	Description	Weight kg	Std. Pack
2011558	Roll and Groove Set 1", 1 1/4", 1 1/2"	22,0	1
2011559	Roll and Groove Set 1 1/2", 1 3/4", 2"	17,0	1
2011560	Roll Set 2" - 6"	5,7	1
2011561	Groove Set 2" - 6"	3,2	1
2011562	Roll and Groove Set 8" - 12"	10,0	1
2011563	Roll and Groove Set Copper 2" - 6"	8,4	1
2011564	Box Wrench	0,5	1

Pipe wall thickness	Nominal inch	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	6"	8"	10"	12"	
	Schedule 10 - mm (inch)	2,8 (1,09)	2,8 (1,09)	2,8 (1,09)	2,8 (1,09)	3,0 (1,20)	3,0 (1,20)	3,4 (1,34)	3,4 (1,34)	3,8 (1,49)	4,2 (1,65)	4,6 (1,80)	
	Schedule 40 - mm (inch)	3,4 (1,33)	3,8 (1,49)	3,7 (1,46)	3,9 (1,54)	5,2 (2,03)	5,5 (2,16)	6,8 (2,37)	7,1 (2,8)	8,2 (3,22)	9,3 (3,65)	10,3 (4,06)	
Pipe diameter	Nominal metric mm	25,00	32,00	40,00	50,00	65,00	80,00	100,00	150,00	200,00	250,00	300,00	
	Actual O.D. metric mm	33,40	42,16	48,26	60,33	73,03	88,90	114,30	168,28	219,08	273,05	323,85	
Model No.	Machine	Material											
F198	Fastener Roll Groover	Steel mm	DIN 2440, 2441, 2448, 2458 up to maximum 7,3 wall thickness										
		Stainless steel mm	Up to maximum 5,8 wall thickness										
		Use roll set	48407		Standard Equipment / 49317 + 51432						49405		
			48412										
		Copper					ISO 274 / EN 1057						
		Use roll set					48417						

Fastener Threading Machine

Pipe capacity: 1/4" - 4"



Features

- Motor: 1,1 kW, single-phase, 50 Hz induction type.
- Switches: Reverse / Off / Forward, heavy-duty, rotary-type and integral foot switch.
- Spindle Speed: 36 / 12 RPM. Two-speed gear box 3:1 ratio.
- Chuck: Hammer-type with replaceable, rocker-action jaw inserts.
- Rear Centering Device: Cam-action.
- Oiling: Adjustable flow; through the head with an integral oil reservoir self-priming constant-flow gerotor pump.

Standard Equipment

- Die Heads: 1 Model 911 (711) 1/4" - 2";
1 Model 914 (714) 2 1/2" - 4".
- Dies: 1 set each 1/2" - 3/4",
1" - 2" dies and 2 1/2" - 4" HS dies.
- Cutter: Model 764 full-floating, self-centering 1/4" - 4" with F-229 cutter wheel.
- Reamer: Model 744 1/4" - 4" blade type.
- Oil: 5 Litres thread cutting fluid.
- Tools and equipment:
4 Hex keys, heavy-duty F-229 cutter wheel, 3/4" combination wrench, tool box.

Code	Model No.	Motor	Capacity inch	Speed RPM	Die Head		Weight kg	Std. Pack
					Self Opening 911	Self Opening 914		
20012101	FTM-1100	230 V, 50 Hz Induction	1/4" - 4 (BSPT)	36 / 12	*	*	220	1
20012102	FTM-1122	115 V, 50 Hz Induction	1/4" - 4 (BSPT)	36 / 12	*	*	220	1
20012103	FTM-1133	230 V, 50 Hz Induction	1/4" - 4 (NPT)	36 / 12	711 Die Head	714 Die Head	220	1

Fastener Threading Machine Stands



Model # 105F Machine Stand

Code	Model No.	Description	Weight kg	Std. Pack
2001402	105F	For FASTENER 300 Compact, 1233,535 and 1224	13,6	1



Model # 155F Machine Stand

Code	Model No.	Description	Weight kg	Std. Pack
2001403	155F	For FASTENER 300 Compact, 1233,535 and 1224	46,8	1



Model # 205F Machine Stand

Code	Model No.	Description	Weight kg	Std. Pack
2001404	205F	For FASTENER 300 Compact, 1233,535 and 1224	47,3	1

Folding Threading Machine Stand

No. 250 folding stand specially designed for 300 Compact and 1233 machines.

Pneumatic pistons allow the machine to be quickly raised to working height with minimum effort.

(Not suitable for use with roll groover or 141 geared threader).



Model # 255F Machine Stand

Code	Model No.	Description	Weight kg	Std. Pack
2001405	255F	For FASTENER 300 Compact and 1233	20,2	1



Pipe Stands

A full range of heavy-duty adjustable pipe stands are available in varying configurations with capacity from 1/4" - 24" (3 mm - 610 mm); suitable for use with threading machines, roll groovers, etc.

V-Head Stands



Code	Model No.	Description	Max. static load kg	For use with threading machines	Height Adjustment cm	Max. Pipe Capacity		Weight kg
						inch	mm	
20015002	FPS-400	V Head Low Pipe Stand	900	—	51 - 96	12	300	9,5
20015005	FPS-410	V Head High Pipe Stand	900	*	71 - 132	12	300	10,4

Ball Transfer Head



Code	Model No.	Description	Max. static load kg	For use with threading machines	Height Adjustment cm	Max. Pipe Capacity		Weight kg
						inch	mm	
20015008	FPS-119	Ball Transfer Head for FPS-400/410	450	—	—	12	300	2,3
20015009	FPS-121	FPS-410+FPS-119	450	—	71 - 132	12	300	12,7

Roller Head Stands



Code	Model No.	Description	Max. static load kg	For use with threading machines	Height Adjustment cm	Max. Pipe Capacity		Weight kg
						inch	mm	
20015012	FPS-77	Roller Head Low Pipe Stand	900	*	59 - 104	12	300	10,9
20015014	FPS-80	Roller Head High Pipe Stand	900	*	82 - 140	12	300	12,3

Conveyor Head High Stand



Code	Model No.	Description	Max. static load kg	For use with threading machines	Height Adjustment cm	Max. Pipe Capacity		Weight kg
						inch	mm	
20015016	FPS-82	Conveyor Head High Stand	200	*	74 - 112	12	300	8,6

Adjustable Pipe Support



Code	Model No.	Description	Max. static load kg	For use with threading machines	Height Adjustment cm	Max. Pipe Capacity		Weight kg
						inch	mm	
20015015	F301	Adjustable Pipe Support	85	—	59 - 84	6	152	10,4
20015016	—	Extension for Model 45	—	—	—	—	—	—
20015017	F304	Adjustable Pipe Support	85	*	81 - 104	6	152	12,7

Support Stand for Roll Groovers



Code	Model No.	Description	Max. static load kg	For use with threading machines	Height Adjustment cm	Max. Pipe Capacity		Weight kg
						inch	mm	
200150021	F192	Support Stand f/Groovers	200	*	66 - 107	12	300	13,2

Large Diameter Pipe Stand



Code	Model No.	Description	Max. static load kg	For use with threading machines	Height Adjustment cm	Max. Pipe Capacity		Weight kg
						inch	mm	
200150022	F318	Large diameter pipe stand	2041	—	41 - 79	24	610	75,7

Thread Cutting Oils

FASTENER mineral oil, synthetic fluid and lubricating gel are all water washable and have been developed to give best performance on fastener threading equipment.

THREAD CUTTING OIL

A high grade mineral oil for all threading applications. Carefully monitored ingredients: fatty oil, sulphur, anti foam agent and emulsifier.

SYNTHETIC THREAD CUTTING FLUID

Specially formulated for use on drinking water installations where local codes prohibit the use of mineral oil based fluids.

Code	Container Size	Weight kg	Std. Pack
20010	5 Litres	23,2	4
20011	25 Litres	23,5	1
20012	240 Litres (48 x 5 L)	260	48
20013	480 Litres (96 x 5 L)	557,0	96
20014	600 ml Spray	4,2	12
20015	5 Litres Synthetic	23,2	4
20016	5 Litres Synthetic (Denmark only)	23,2	4
20017	500 ml Synthetic Spray	5,4	12

Code	Description	Container Size gram
20020	Lubricating Grease (for Large Gear)	113,4
20022	Gearhead Motor Grease	500,0



Check your local regulations for specific product suitability for your application.

FASTENER thread cutting oils are free of toxic compounds such as polychlorinated biphenyls and polynuclear aromatic compounds. Also available in spray cans.



Model F615 Oiler

Hand-operated, portable heavy-duty oiler

Features

- Impact-resistant plastic body.
- Large drip pan.
- Die cast, twin-finger trigger operated oil gun.
- Double filtering system with oil recirculation.
- Chip pan inner diameter: 362 mm.
- Depth: 212 mm.
- Hose length: 1,4 m.



Code	Model No.	Description	Weight kg	Std. Pack
20025	F615	Oiler with 5 Litres of Thread Cutting Oil	9,8	1
20026		Utility Oiler (Consists of Pump, Hose, and Attachments to screw onto 1-Gallon Oil Can (Oil Can and Oil not included))	1,3	1

Die Heads for 3" Threading Machines

Die heads for 2" threading machines will also fit 3" machines



Code	Model No.	Description (Less Dies)	How Opened	Thread Direction	Pipe Cap. inch	Bolt Cap. inch	Weight kg	Std. Pack
2011503	F298	Universal BSPT	S.O.	RH	2 1/2 - 3	—	8,2	1
2011504	F278	Universal NPT	S.O.	RH	2 1/2 - 3	—	8,2	1

Die Heads for 4" Threading Machines



Code	Model No.	Description (Less Dies)	How Opened	Thread Direction	Pipe Cap. inch	Bolt Cap. inch	Weight kg	Std. Pack
2011505	F191	Universal BSPT	S.O.	RH	1/2 - 2	—	5,6	1
2011507	F193	Universal BSPT	Q.O.	LH	1/2 - 2	—	5,6	1
2011509	F194	Universal BSPT	S.O.	RH	2 1/2 - 4	—	13,6	1
2011510	F171	Universal NPT	S.O.	RH	1/2 - 2	—	5,6	1
2011512	F173	Universal NPT	Q.O.	LH	1/2 - 2	—	5,6	1
2011514	F174	Universal NPT	S.O.	RH	2 1/2 - 4	—	13,6	1

Bolt Die Heads for 4" Threading Machines



Code	Model No.	Description (Less Dies)	How Opened	Thread Direction	Pipe Cap. inch	Bolt Cap. inch	Weight kg	Std. Pack
2011517	F451	Bolt	Q.O.	RH / LH	—	1/2 - 1	3,4	1
2011519	F452	Bolt	Q.O.	RH / LH	—	1 1/2 - 2	4,2	1

Cut Grooving Die Heads for 4" Threading Machines



Code	Model No.	Description (Less Dies)	How Opened	Thread Direction	Pipe Cap. inch	Bolt Cap. inch	Weight kg	Std. Pack
2011521	F275	Cut-Grooving Die Head	Q.O.	—	2 1/2 - 4	—	13,6	1

Q.O. = Quick-Opening - Manually flip throwout lever to retract dies when thread length is cut.
S.O. = Self-Opening - Trigger foot automatically retracts dies when thread length is cut.

Fastener Bolt Dies

Bolt Dies for Universal Die Heads



(BSW)		(UNC)			(UNF)		
Rod Size inch-TPI	RH High-Speed	Rod Size TPI	RH Alloy	RH High-Speed	Rod Size inch-TPI	RH Alloy	RH High-Speed
1/8" - 20	67680	1/8" - 20	47985	48215	1/8" - 28	48065	48295
1/8" - 18	67685	1/8" - 18	47990	48220	1/8" - 24	48070	48300
1/8" - 16	—	1/8" - 16	47995	48225	1/8" - 24	48075	48305
1/8" - 14	—	1/8" - 14	48000	48230	1/8" - 20	48080	48310
1/8" - 12	67900	1/8" - 13	48005	48235	1/8" - 20	48085	48315
1/8" - 12	—	1/8" - 12	48010	48240	1/8" - 18	48090	48320
1/8" - 11	67910	1/8" - 11	48015	48245	1/8" - 18	48095	48325
1/8" - 10	67915	1/8" - 10	48020	48250	1/8" - 16	48100	48330
1/8" - 9	67920	1/8" - 9	48025	48255	1/8" - 14	48105	48335
1" - 8	67925	1" - 8	48030	48260	1" - 14NS	48110	48340
1 1/2" - 7	—	1 1/2" - 7	48035	48265	1" - 12	48145	48375
1 1/2" - 7	67935	1 1/2" - 7	48040	48270	1 1/2" - 12	48115	48345
1 1/2" - 6	—	1 1/2" - 6	48045	48275	1 1/2" - 12	48120	48350
1 1/2" - 6	67945	1 1/2" - 6	48050	48280	1 1/2" - 12	48125	48355
1 1/2" - 5	—	1 1/2" - 5	48055	48285	1 1/2" - 12	48130	48360
2" - 4 1/2	—	2" - 4 1/2	48060	48290	—	—	—

Fastener Bolt Dies



BSW		
Rod Size x TPI	RH Alloy	RH High-Speed
1/8" - 20	—	—
1/8" - 18	67370	—
1/8" - 16	—	67615
1/8" - 14	67380	67620
1/8" - 12	—	67625
1/8" - 12	67390	67630
1/8" - 11	—	67635
1/8" - 10	—	67640
1/8" - 9	—	67645
1" - 8	67410	67650
1 1/2" - 7	—	67655
1 1/2" - 7	—	67660
1 1/2" - 6	67425	67665
1 1/2" - 6	67430	67670
1 1/2" - 5	67435	67675
1 1/2" - 5	67440	—
1 1/2" - 4 1/2	67445	67685
2" - 4 1/2	67450	—

(8 UN)		(16 UN)	
Rod Size inch-TPI	RH High-Speed	Rod Size TPI	RH High-Speed
1 1/2" - 8	49215	1 1/2" - 16	49375
1 1/2" - 8	49220	1 1/2" - 16	49380
1 1/2" - 8	49225	—	—
1 1/2" - 8	49230	—	—
1 1/2" - 8	49240	—	—
1 1/2"	49245	—	—
2" - 8	49250	—	—

Tubing Cutters

Fastener tubing cutters are designed to provide a life time of clean cuts.

Midget Tubing Cutters

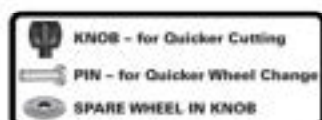


Code	Model No.	Description	Std. Wheel	Capacity mm	Weight kg	Std. Pack
For Copper Tubing						
2011562	F301	Midget Cutter	33185	3 - 16	0,1	6
2011563	F401	Midget Cutter	33185	5 - 24	0,1	6
2011564	F407	Midget Cutter with Spare Wheel	33185	6 - 28	0,1	6
For Copper Tubing with feed assisted advance spring mechanism						
2011565	F171	Feed Assisted Midget Cutter	33185	5 - 24	0,1	6
2011566	F181	Feed Assisted Midget Cutter	33185	6 - 28	0,1	6
For Multilayer Tubing						
2011567	F101-M	Midget Cutter with Spare Copper Wheel	74720	6 - 28	0,1	6

- Ideal for use in restricted spaces on small diameter.
- Designed for hard and soft copper, aluminum, brass, and plastic tubing.
- Strong, lightweight slide and wheel housing.

- The models 117 and 118 are fitted with a feed assisting spring mechanism for controlled and automatic advance. Not to be used on multilayer tubing.
- Models 101 and 118 spare cutter wheel in knob included.

Enclosed Feed Tubing Cutters



Code	Model No.	Description	Std. Wheel	Capacity mm	Weight kg	Std. Pack
For Copper Tubing						
2011568	F500	Enclosed Feed Cutter	33185	6 - 35	0,2	6
2011569	F501	Ratcheting Encl. Feed Cutter	33185	6 - 60	0,8	1
For Steel Tubing						
2011570	F510S	Above with Heavy Duty Wheel	33190	6 - 35	0,4	1
2011571	F515S	Above with Heavy Duty Wheel	33190	6 - 60	0,8	1



Model F500 & F501

- Designed to cut hard and soft copper, aluminium, brass and multilayer tubes.
- Can be adapted with cutter wheels for steel.
- Equipped with a fold-away reamer.
- Features an enclosed feed screw to eliminate clogging and jamming.

- Model F501 has an additional quick-acting mechanism.
- Model F515S is suitable for stainless steel.
- Spare cutter wheel included.

101-ML only to be used on straight lengths multilayer tubing

Fastener Screw Feed Tubing Cutters

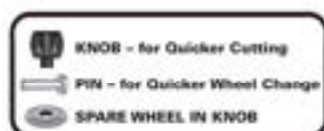


Code	Model No.	Description	Std. Wheel	Capacity mm	Weight kg	Std. Pack
For Copper Tubing						
2011573	F10	Screw Feed Cutter	33160	3 - 25	0,4	6
2011574	F15	Screw Feed Cutter	33160	5 - 28	0,6	6
2011575	F20	Screw Feed Cutter	33160	16 - 54	0,8	1
2011576	F30	Screw Feed Cutter	33170	25 - 79	1,6	1
For Steel Tubing						
2011577	FP10	F10 with Heavy Duty Wheel	33165	3 - 25	0,4	6
2011578	FP15	F15 with Heavy Duty Wheel	33165	5 - 28	0,6	6
2011579	FP20	F20 with Heavy Duty Wheel	33165	16 - 54	0,8	1
2011580	FP30	F30 with Heavy Duty Wheel	33175	25 - 79	1,6	1
For Stainless Steel Tubing						
2011580	FPS15	Screw Feed Cutter Stainless Steel	96397	5 - 28	0,6	6

Model # F10, F15, F20 & F30

- Designed to cut copper, brass, aluminum, and thin wall steel pipes.
- Models F10, F15 and F20 feature a fold-away reamer.
- All models have a screw feed assembly for longevity and smoothness.
- Model **FPS15** developed for stainless steel cutting purposes.

Fastener Quick-Acting Tubing Cutters



Code	Model No.	Description	Std. Wheel	Capacity mm	Weight kg	Std. Pack
For Metallic Tubing						
2011581	F51	Quick-Acting Tubing Cutter	33185	6 - 42	0,4	6
2011582	F52	Quick-Acting Tubing Cutter	33185	6 - 66	0,9	1
2011583	F53	Quick-Acting Tubing Cutter	33185	32 - 90	0,9	1
2011584	F54	Quick-Acting Tubing Cutter	33170	48 - 116	1,4	1
2011585	F55	Quick-Acting Tubing Cutter	33170	100 - 170	1,9	1
For Plastic Tubing						
2011586	FP51	Quick-Acting Tubing Cutter	74720	10 - 40	0,4	1
2011587	FP52	Quick-Acting Tubing Cutter	74720	10 - 63	0,9	1
2011588	FP53	Quick-Acting Tubing Cutter	74720	25 - 75	0,9	1
2011589	FP54	Quick-Acting Tubing Cutter	74730	50 - 110	1,4	1
2011590	FP55	Quick-Acting Tubing Cutter	83235	50 - 110	1,4	1
2011591	FP56	Quick-Acting Tubing Cutter	74735	110 - 160	1,9	1
2011592	FP57	Quick-Acting Tubing Cutter	83235	110 - 160	1,9	1
For Multilayer Tubing						
2011593	FP58	Quick-Acting Tubing Cutter	66772	10 - 50	0,5	1



Model # F51, F53, F54 & F55

- Designed for cutting plastic or metallic tubing.
- Models F51-F55 feature a quick-acting design.
- I-beam construction, hardened wear surfaces and thrust bearing slide assemblies for smooth operation.
- Models **F51** and **F52** feature fold-away reamers.
- Model **FP51** is specially designed for multilayer pipe.

Fastener Plastic Pipe Cutters

Rugged precision shears for fast, effortless single stroke or ratchet cutting of all types of plastic tube and pipe.

- FP1100 for all types of plastic materials. Quick change reversible blade = 2 x blade life.
- FP1200, FP1270 for PVC, CPVC, PEX, PE, PB, Multilayer and rubber hose.
- Lower handle has raised ridges $\frac{1}{2}$ " apart for quick, easy measurements and improved grip.
- FP1270 comprises a ratcheting mechanism.

Code	Model No.	Description	Capacity mm	Weight kg	Std. Pack
2011593	FP1100	Single Stroke Cutter	3 - 42	0,1	1
2011594	FP1200	Single Stroke Cutter	3 - 35	0,32	1
2011595	FP1270	Ratchet Cutter	3 - 42	0,7	1
2011596	FP1280	Ratchet Cutter	3 - 27	0,3	1
2011597	FP1281	Ratchet Cutter	3 - 42	0,5	1
2011598	FP1282	Ratchet Cutter	3 - 63	1,2	1
2011599	FP1290	Ratchet Cutter	6 - 35	0,56	1
2011600	FP1292	Ratchet Cutter	6 - 42	0,74	1

Models PC-1250, 1435N and 1442N are not suitable for multilayer pipes.



Spares for plastic pipe cutters

	FP1100	FP1200	FP1270	FP1280	FP1281	FP1282	FP1290	FP1292
Blade	26803	25588	27858	22066	22076	22086	68616	42126
Ratchet mechanism	-	-	-	66916	66926	47527	-	-
Spring set	-	-	-	66896	66906	47522	-	-
Service kit	-	-	-	-	-	-	68626	41326



Reamers



Inner-Outer Reamer

- Plastic construction with long wearing alloy steel blades.
- Designed to give fast, professional reaming on copper, aluminium, brass and other types of tubing.



Stainless Steel Reamer

- Anodised aluminium hilt and hardened steel reamer cone.
- Allows fast and clean inner and outer reaming on stainless steel tubing from 6 mm up to 54 mm.

Code	Model No.	Description	Capacity mm	Weight kg	Std. Pack
2011601	FP127	Inner-Outer Reamer	6 - 37	0,1	1
2011602	FP223	Stainless Steel Reamer	6 - 36	0,3	1
2011603	FP227	Stainless Steel Reamer	12 - 54	0,6	1
2011604	FP72	Deburring Tool	12 - 40	-	6
2011605	FP73	Deburring Tool	40 - 76	-	6
2011606	FP74	Deburring Tool	100	-	6



Plastic Pipe and Tubing Deburring Tool

- High-grade steel, slip-resistant vinyl hand grip.
- Ideal for removing outside ridges and inside burrs.



Teflon Tap



Main Specification of the Teflon tape

Width (mm)	Thickness (mm)	Length (m)	Density (g/cm3)
19 mm	0.2mm-0.075mm	50 mm	0.2g/cm3-0.1g/cm3
15 mm	0.2mm-0.075mm	25 mm	0.2g/cm3-0.1g/cm3
12 mm	0.2mm-0.075mm	15 mm	0.2.5g/cm3-0.1g/cm3

Packaging Detail

1000pcs/carton,10rolls wrapped in plastic50+ packs of 10 rolls inside a white box2+ white box inside a brown cardboard.



FASTENER Direct Fixing **Powder & Gas**



FST-GUN

Semiautomatic powder-actuated nail gun

FST430 P8 GUN

For 8 mm nails



POWDER



CODE	SIZE	
FST430 P8 GUN	Ø 8mm	1

FST12 MAG-GUN

For 12 mm nails



POWDER



CODE	SIZE	
FST12 MAG-GUN	Ø 12mm	1


GUNS SUPPLIED WITH
COMPLETE KIT CASE

TOOL CASE CONTENT

- Gun
- Brush
- User manual
- Safety glasses
- Spare parts
- Lubricant oil

Compatibility chart

CONSUMIBLES	BASE MATERIAL		APPLICATION	GUN		PISTON
	METAL	CONCRETE		FST430 P8 GUN	FST12 MAG-GUN	
FPCGX08	•		Construction fixings, plumbing, electricity	•		FPPISCL08
FPCUX08		•	Construction fixings, plumbing, electricity	•		FPPISCL08
FPC30X08		•	Fixing of soft and insulating materials	•		FPPISCL08
FPC35X08		•	Fixing of soft materials and wire mesh	•		FPPISCL08
FPCM6X08	•	•	Clamp fixings	•		FPPISPL08
FPCGX12	•		Construction fixings, plumbing, electricity		•	FPPISCL12
FPCUX12		•	Construction fixings, plumbing, electricity		•	FPPISCL12
FPCGDX12	•		Construction fixings, plumbing, electricity		•	FPPISCL12
FPCLDX12		•	Construction fixings, plumbing, electricity		•	FPPISCL12
FPCT3212		•	False ceiling fixings		•	FPPISCL12
FPPXX	•	•	Powder cartridges	•	•	
FPCDX12		•	Fixing of soft and insulating materials		•	FPPISCL12



Nails for powder-actuated guns

HDN27

POWDER



CODE	SIZE	
HDN27 P8	3.7 mm	100
HDN27 P8	4.0 mm	100

HDN27 P8

Knurled nails with 8 mm plastic washer



POWDER



CODE	SIZE	
HDN32 P8	3.8 x 22	100
HDN32 P8	3.8 x 27	100
HDN32 P8	3.8 x 32	100
HDN32 P8	3.8 x 37	100
HDN32 P8	3.8 x 42	100
HDN32 P8	3.8 x 47	100

HDN32 P8

Standard nails with 8 mm plastic washer



POWDER



CODE	SIZE	
HDN C30	3.8 x 37	100
HDN C30	3.8 x 47	100

HDN C30

Standard nails with 30mm plastic washer, for fixing geotextiles



POWDER



CODE	SIZE	
HDN27F10S23	3.7 mm	50
HDN27F10S23	4.0 mm	100

HDN27F10S23

Knurled nails with 23 mm metallic washer



POWDER



CODE	SIZE	
HDN7P8S14	3.5 mm	100
HDN7P8S14	3.7 mm	100
HDN7P8S14	4.0 mm	100

HDN27P8S14

Knurled nails with 14 mm metallic washer



HDN-CL12

Nails for powder-actuated guns

HDN-CG12

Knurled nails with 12 mm metal washer

POWDER



CODE	SIZE	
HDNCG12	3,8 x 16	100
HDNCG12	3,8 x 19	100

HDN-CL12

Standard nails with 12 mm metal washer

POWDER



CODE	SIZE	
HDNCL12	3,8 x 22	100
HDNCL12	3,8 x 27	100
HDNCL12	3,8 x 32	100
HDNCL12	3,8 x 37	100
HDNCL12	3,8 x 42	100
HDNCL12	3,8 x 47	100

HDN-CGD12

Knurled nails with 12 mm metal end plastic double washer

POWDER



CODE	SIZE	
HDNCGD12	3,8 x 16	100
HDNCGD12	3,8 x 19	100

HDN-CLD12

Standard nails with a 12 mm metal and a plastic washer

POWDER



CODE	SIZE	
HDNCLD12	3,8 x 22	100
HDNCLD12	3,8 x 27	100
HDNCLD12	3,8 x 32	100
HDNCLD12	3,8 x 37	100
HDNCLD12	3,8 x 42	100
HDNCLD12	3,8 x 47	100

X-CR27

Nails for fastener & Spit Gun

POWDER



CODE	SIZE	
X-CR27	4,0 mm	100



Power Actuated Fastener

POWDER

CODE	POWER	COLOR	PCS. X STRIP	
SL27C3	POWER 3		10	100
SL27C4	POWER 4		10	100
SL27C5	POWER 5		10	100

POWDER

CODE	POWER	SUITABLE FOR	
D27C5	5	Fastener & Spit	100

POWDER

CODE	SIZE	
WCC-27FH	27 mm	100

POWDER



CODE	SIZE	
X-MX27M8	4.0 x 22	100
X-MX27M8	4.0 x 27	100
X-MX27M8	4.0 x 32	100
X-MX27M8	4.0 x 22	100
X-MX27M8	4.0 x 22	100

POWDER



CODE	SIZE	
X-CR27S14	4.0 mm	100

POWDER



CODE	SIZE	
FHFP8	150 x 25 mm	100

POWER STRIPT

Powder cartridges



POWER DISC

Powder cartridges



Fastener Ceiling Clip



MX Magazine Nails



X-CR27S14

Nails for Fastener & Spit Gun



FHFP8

Steel Wall Ties - L Shape



FG-GUN

Semiautomatic, wireless, gas-actuated nail gun Shootex 60

GAS



CODE	SIZE	
FGS90	Gas gun	1

GUN SUPPLIED
WITH COMPLETE KIT CASE



TOOL CASE CONTENT

- SHOOTEX60 Gun
- Charger
- 2 batteries
- Safety glasses
- Allen key
- User manual

- Direct anchoring technique for light fixings: organising cabling, positioning of metallic profiles for the installation of plasterboard walls, etc.
- Fixing of metal or wood to concrete or blocks.
- Gun supplied with complete kit case, including battery charger.
- Long-lasting batteries.
- Suitable for nails up to 58 mm. long.
- Gas charge supplied with consumables.



Fastener Gas Nails

FGN

GAS



CODE	SIZE	kg
FGN15	2,6 x 15	1.000
FGN20	2,6 x 20	1.000
FGN25	2,6 x 25	1.000
FGN30	2,6 x 30	1.000
FGN35	2,6 x 35	1.000
FGN40	2,6 x 40	1.000
FGN58	2,6 x 58	1.000

FGN



GAS



CODE	SIZE	kg
FGNH17	3,1 x 17	1.000
FGNH19	3,1 x 19	1.000
FGNH22	3,1 x 22	1.000
FGNH27	3,1 x 27	1.000
FGNH32	3,1 x 32	1.000

FGN-H

Nails for hard materials



GAS



CODE	SIZE	kg
FGNW15	2,6 x 15	1.000
FGNW20	2,6 x 20	1.000
FGNW25	2,6 x 25	1.000
FGNW30	2,6 x 30	1.000
FGNW35	2,6 x 35	1.000
FGNW40	2,6 x 40	1.000

FGN-W

Nails for fixing metal profiles or wood



FGG-ACC

Accessories for gas gun

FGG-PLET

Threaded rod hanger



CODE	SIZE	
FGGPLET	M6 y N8	100

FGG-MWH

MAGNETIC WASHER HOLDER



CODE	SIZE	
FGGMWH	Øinner 11,25	1

FGG-CLI

Universal conduit and pipe clip



CODE	SIZE	
FGGCLI15	15 - 18	100
FGGCLI20	20 - 25	50
FGGCLI25	25 - 32	50

FGG-BAS

Base flange



CODE		
FGGBF		100

FGG-BAT

Battery



CODE		
FGGBAT		2

FGG-ADP

Charger



CODE		
FGGADP		1

FGG-FUEL

Fastener Gas Fuel Cell



CODE		
FGGFC		10

Overview of our range

FACADE INSULATION FIXINGS

ETICS FIXINGS



INSULATION FIXINGS



SCREW-IN FACADE FIXINGS

Versatile screw-in façade fixing with high performance in all base materials recommended for ETICS.



Screw-in facade fixing with 60mm long expansion zone for high performance in masonry.



FEATURES AND BENEFITS:

- Quick and easy installation in all substrates (categories A,B,C,D,E).
- Unique sleeve compression zone for precision installations.
- The long plastic overmoulding minimises thermal bridging (value 0.002W/K), contributing to energy-saving benefits.
- Plate stiffness (value 0.6 kN/mm) ensures smooth elevation surface and stable insulation system.
- Pre-assembled screw saves time and labour.
- Design allows for high load-bearing capacities. This reduces the quantity of fixings required per square metre of insulation.
- The shortest embedment depth at the maximum strength parameters.

- Approved for use in all base material categories A,B,C,D,E.
- Steel screw allows fast and trouble-free installation with correct expansion of the plug.
- Can be used with additional KWL insulation holding plate, available in 90, 110 and 140mm flange sizes (recommended for soft insulation materials such as lamella wool).

HAMMER-IN FACADE FIXING WITH METAL NAIL

Versatile hammer-in facade fixing with steel nail recommended for ETICS.



Hammer-in facade fixing 60mm long expansion zone for high performance in masonry, as well as lightweight and aerated concrete.



FEATURES AND BENEFITS:

- Simple installation in all standard substrates (A,B,C).
- Excellent plate stiffness (value 1.0 kN/mm) ensures smooth elevation surface and stable insulation system.
- The long plastic overmoulding on the TFD-BM nail minimises thermal bridging (value 0.002W/K), contributing to energy-saving benefits.
- Unique nail design allows for high load-bearing capacities. This reduces the quantity of fixings required per square metre of insulation.
- The shortest embedment depth at the maximum strength parameters.
- Pre-assembled expansion nail saves time and labour.

- Easy installation with best performance in lightweight base materials.
- Approved for use in base material categories B, C, D, and E.
- Steel nail allows fast and trouble-free installation with correct expansion of the plug.
- Can be used with additional KWL insulation holding plate, available in 90, 110 and 140mm flange sizes.

Overview of our range

FACADE INSULATION FIXINGS		
ETICS FIXINGS	INSULATION FIXINGS	
HAMMER-IN FACADE FIXING WITH PLASTIC NAIL		
Versatile hammer-in facade fixing with plastic nail recommended for ETICS.	Hammer-in fixing with reinforced plastic nail.	
		
FEATURES AND BENEFITS:		
• Installation in all base materials (categories A,B,C,D,E) • The plastic nail reduces heat transmission (value 0.0W/K) • Pre-assembled expansion nail saves time and labour. • Unique nylon pin design reinforced with glass fibre allows fast and trouble-free installation with correct expansion of the plug. • Expansion zone designed for low embedment depths, reducing the amount of drilling required.	• Approved for use in all substrates (categories A,B,C,D,E). • The plastic nail reduces heat transmission (value 0.0W/K) • Expansion zone designed for low embedment depths, reducing the amount of drilling required.	
INSULATION WASHER		
Insulation washer with integral cap suitable for attachment of insulation layers to wooden and sheet metal substrates.	Insulation washer with integral cap suitable for attachment of insulation layers to wooden and sheet metal substrates.	
		
FEATURES AND BENEFITS:		
• Recommended for the attachment of ETICS to wooden substrates using UC screws, or to sheet metal using WB screws (allows setting without pre-drilling, thus saving a stage of installation) • Special design of integral fastener cap allows reduction of thermal bridges to 0.001W/K. • Design with long tube allows to use short length of the screw for best cost effective solution to fix large insulation thickness. • Consistent and reliable holding force; quick, simple and clean installation.	• Recommended for the attachment of ETICS to wooden substrates using UC screws, or to sheet metal using WB screws. • Consistent and reliable holding force. • Quick, simple and clean installation.	
INSULATION SUPPORT		
FIRE-RESISTANT METAL INSULATION FIXINGS	INSULATION RETAINING PLATES	FACADE INSULATION ACCESSORIES
Metal facade fixing, recommended for use when fire resistance (F120) is a requirement.	Insulation retaining plate for use in combination with Facade fixings from TRIX and KI ranges	Tools, bits, insulation caps, adhesives and other accessories you need for external wall insulation.
		

Overview of our range


ETICS FIXINGS

FASTENER NAME			FIA-BST	FIA-BST-ECO	FIA-BS	FIA-BM
INSULATION MATERIAL	EXTRUDED OR EXPANDED POLYSTYRENE		✓	✓	✓	✓
	MINERAL WOOL		✓	✓	✓	✓
	LAMELLA WOOL + HOLDING FLANGE		-	-		
	CORK BOARDS, WOOD FIBREBOARDS, LIGHTWEIGHT RECYCLED PANELS		-	-	✓	✓
SUBSTRATES	CONCRETE	A	✓ 1.2 kN	✓ 1.2 kN	✓ 1.2 kN	✓ 1.2 kN
	SOLID BRICK, CALCIUMSILICATE BRICK, CONCRETE BLOCKS, STONE	B	✓ 1.2 kN	✓ 1.2 kN	✓ 1.2 kN	✓ 1.2 kN
	HOLLOW BRICK, CHEQUER BRICK, CERAMIC HOLLOW BRICKS	C	✓ 0.75 kN	✓ 0.75 kN	✓ 0.75 kN	✓ 0.6 kN
	LIGHTWEIGHT CONCRETE BLOCKS, E.G. LECA CONCRETE	D	✓ 0.6 kN	✓ 0.6 kN	✓ 0.6 kN	-
	AUTOCLAVED CELLULAR (GAS) CONCRETE	E	✓ 1.2 kN	✓ 1.2 kN	✓ 1.2 kN	-
	TIMBER, WOOD-BASED BOARDS		-	-	-	-
	TRAPEZOIDAL SHEET		-	-	-	-
APPROVALS			ETA	ETA	ETA	ETA
CHARACTERISTICS	AVAILABLE LENGTHS [MM]		135, 155, 175, 195, 215, 235, 255, 275, 295, 335, 355, 375, 395, 415, 435, 455	135, 155, 175, 195, 215, 235, 255, 275, 295, 335, 355, 375, 395, 415, 435, 455	115, 135, 155, 175, 195, 215, 235, 255, 275, 295, 335, 355, 375, 395, 415, 435, 455	95, 115, 135, 155, 175, 195, 215, 235, 275, 295
	THERMAL INSULATION THICKNESSES RANGE [MM]		60-420	60-420	60-420	60 - 260
	DRILL DIAMETER [MM]		8	8	8	8
	ANCHORAGE DEPTH (MM)		25 (65)	25 (65)	25 (65)	25
	INSTALLATION TYPE		screw-in	screw-in	screw-in	hammer set
	ADDITIONAL INFORMATION		The best fastener for every fixing. 100% correct anchoring in all conditions. The best parameters, the most versatile of professional fixings.			The best hammered-in fixing. Very good parameters with the simplest installation.

Overview of our range

						
ETICS FIXINGS			INSULATION FIXINGS			
FIA 8P	FCX	FMA	FI-10	FI-10N	FI-10NS	FIC
✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓
						
✓	-	✓	✓	✓	✓	-
✓ 0.5 kN	✓ 1.5 kN	✓ 0.8 kN	✓ 0.4 kN	-	-	✓ 1.0 kN
✓ 0.5 kN	-	✓ 0.6 kN	✓ 0.4 kN	✓ 0.9 kN	✓ 1.2 kN	✓ 1.0 kN
✓ 0.3 kN	-	-	✓ 0.3 kN	✓ 0.4 kN	✓ 0.4 kN	-
✓ 0.3 kN	-	-	✓ 0.5 kN	✓ 0.3 kN	✓ 0.73 kN	-
✓ 0.5 kN	-	✓ 0.7 kN	✓ 0.1 kN	✓ 0.9 kN	✓ 0.75 kN	-
-	✓ 1.5 kN	-	-	-	-	✓ 1.0 kN
-	✓ 1.5 kN	-	-	-	-	✓ 1.0 kN
ETA	AT-15	AT-15	ETA	ETA	ETA	AT-15
95, 115, 135, 155, 175, 195, 215	UC: 50, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150, 160, 180, 200 WB: 80, 100, 120, 140, 160, 170, 180, 200, 220	MBA: 80, 110, 140, 170, 200, 240, 300 HBA-55: 90, 110, 140, 170, 200, 250, 300	70, 90, 120, 140, 160, 180, 200, 220	120, 140, 160, 180, 200, 220, 240, 260, 300	140, 160, 180, 200, 220, 240, 260, 300	UC: 50, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150, 160, 180, 200 WB: 80, 100, 120, 140, 160, 170, 180, 200, 220
50-180	40-350	50 - 160	30 - 180	60 - 230	80 - 230	40 - 200
8 	-	8 	10 	10 	10 	-
25 (65)	30	50	25	60	60	30
hammer set 	screw-in 	hammer set 	hammer set 	hammer set 	screw-in 	screw-in 
The economical fixing for bonded ETICS applications.	The best choice for timber, sheathing board and trapezoidal sheet.	Non-flammable fixings for ETICS-requiring installations.	The economical fixing for bonded ETICS applications.	Fastener for most demanding substrates. Screwed-in fixings are strongly recommended for large sections of insulation installed in porous materials, such as porous ceramic hollow bricks and the lightest form of a gas concrete.		The best choice for timber, sheathing board and trapezoidal sheet.

Fastener Insulation Gun FST460



Applications

- Fastening mineral wool and EPS insulation materials to interior and exterior walls including facades
- Fastening insulation with a thickness of 25 - 200 mm
- Fastening to concrete (45 N/mm²), steel and masonry

Advantages

- Quick method of fastening mineral wool and EPS insulation material to concrete or CMU block
- Fastens insulation to concrete, masonry and steel up to 3 times faster than traditional methods
- Compared to drilling and anchoring, virtually no dust, no sustained noise and no searching for the drilled hole as only one tool is required
- Surface pattern on the disc provides a good key for plaster adhesion
- High productivity

Technical data

Dimensions (LxWxH)	525 x 72 x 180 mm
Base materials	Concrete, Steel
Cartridge colour	Red, Yellow
Certificates	CE
Contact pressure - min.	174 N
Fastener length range	25 - 200 mm
Max. fastener driving rate	700 / h
Noise (power) level: LWA, 1s	105 dB (A)
Power regulation	Yes



POWDER



CODE	SIZE	
FST460	25 - 200 mm	1

Fastener Insulation Anchor F-ID 7



Applications

- Fastening PIR, PUR, XPS and phenolic boards

Advantages

- Very fast insulation fastening system; up to five times quicker than conventional methods

Technical data

Material composition	High-density polyethylene (HDPE)
Diameter	60 mm
Minimum thickness of base material (concrete)	80 mm

Code	Thickness fastened - max.	Packing
F-ID 7-30	30 mm	1000 PCS
F-ID 7-50	50 mm	1000 PCS
F-ID 7-60	60 mm	1000 PCS
F-ID 7-75	75 mm	1000 PCS

Soft washer F-SS 30



Applications

- Attaching waterproofing membrane to concrete or masonry

Advantages

- Helps prevent tearing or ripping of thin or soft membranes

Technical data

Material composition	Halogen and silicone free
Washer size	30 mm
Base materials	Concrete, Concrete block, Lightweight concrete

Code	Size	Packing
Soft washer F-SS 30	-	500 pc
Pin with soft washer F-SS 30 C37	37 mm	150 pc
Pin with soft washer F-SS 30 C37	37 mm	500 pc
Pin with soft washer F-SS 30 C47	47 mm	100 pc
Pin with soft washer F-SS 30 C47	47 mm	400 pc
Pin with soft washer F-SS 30 C62	62 mm	100 pc
Pin with soft washer F-SS 30 C62	62 mm	400 pc

Soft washer fastener F-SS 60



Applications

- Attaching waterproofing membrane to concrete or masonry

Advantages

- 60 mm soft washer provides large bearing surface for superior clamping of thin membranes

Technical data

Material composition	Halogen and silicone free
Washer size	60 mm
Base materials	Concrete, Concrete block, Lightweight concrete

Code	Size	Packing
Soft washer F-SS 60	-	500 pc
F-SS 60 C37	37 mm	150 pc
F-SS 60 C62	62 mm	100 pc

Fastener Insulation Anchor F-ID 1



Applications

- Fastening insulation on facades

Advantages

- Very fast insulation fastening system: up to five times quicker than conventional methods

Technical data

Material composition	High-density polyethylene (HDPE)
Diameter	60 mm
Minimum thickness of base material (concrete)	80 mm

Code	Thickness fastened - max.	Fastener shank length	Packing
F-ID 1-25	25 mm	47 mm	300 pc
F-ID 1-30	30 mm	52 mm	300 pc
F-ID 1-35	35 mm	52 mm	300 pc
F-ID 1-40	40 mm	52 mm	300 pc
F-ID 1-50	50 mm	62 mm	300 pc
F-ID 1-60	60 mm	62 mm	300 pc
F-ID 1-70	70 mm	62 mm	200 pc
F-ID 1-75	75 mm	62 mm	200 pc
F-ID 1-80	80 mm	62 mm	200 pc
F-ID 1-90	90 mm	62 mm	200 pc
F-ID 1-100	100 mm	62 mm	200 pc
F-ID 1-120	120 mm	62 mm	150 pc
F-ID 1-140	140 mm	62 mm	100 pc
F-ID 1-160	160 mm	62 mm	100 pc
F-ID 1-180	180 mm	62 mm	100 pc
F-ID 1-200	200 mm	62 mm	100 pc

Fastener Insulation Anchor F-ID 2



Applications

- Fastening insulation on facades

Advantages

- Extremely fast insulation fastening system: up to five times quicker than conventional methods

Technical data

Material composition	High-density polyethylene (HDPE)
Diameter	90 mm
Minimum thickness of base material (concrete)	80 mm

Code	Thickness fastened - max.	Packing
F-ID 2-60	60 mm	150 pc
F-ID 2-80	80 mm	100 pc
F-ID 2-90	90 mm	100 pc
F-ID 2-100	100 mm	100 pc
F-ID 2-120	120 mm	100 pc
F-ID 2-140	140 mm	50 pc
F-ID 2-160	160 mm	50 pc
F-ID 2-180	180 mm	50 pc
F-ID 2-200	200 mm	50 pc

Fastener Traditional Insulation Anchor



Base materials

- Concrete (uncracked)
- Masonry (hollow)
- Masonry (solid)

Applications

- Fastening insulating materials, e.g. behind curtain wall cladding and for basement insulation

Advantages

- Can be quickly set in place thanks to simple impact installation
- Can be used on all conventional base materials
- Anchor hole does not need to be cleaned

Technical data

Material composition	Body: polypropylene, Expansion pin: polyamide, fibre-reinforced
Environmental conditions	Outdoor
Approvals / test reports	N/A
Type of fastening	Through-fastening

Code	Drill bit diameter	Anchor length	Insulation material thickness fastened - max.	Insulation material thickness fastened - min.	Packing
FTI 8 x 70	8 mm	70 mm	20 mm	10 mm	250 pc
FTI 8 x 90	8 mm	90 mm	40 mm	20 mm	250 pc
FTI 8 x 110	8 mm	110 mm	60 mm	40 mm	200 pc
FTI 8 x 130	8 mm	130 mm	80 mm	60 mm	200 pc
FTI 8 x 150	8 mm	150 mm	120 mm	80 mm	150 pc
FTI 8 x 190	8 mm	190 mm	160 mm	140 mm	100 pc
FTI 8 x 210	8 mm	210 mm	180 mm	160 mm	100 pc
FTI 8 x 230 (50)	8 mm	230 mm	200 mm	180 mm	50 pc
FTI 8 x 250 (50)	8 mm	250 mm	220 mm	200 mm	50 pc

Fastener Traditional Insulation Anchor FDP

Technical data

Material composition	Polypropylene
Approvals / test reports	N/A
Type of fastening	Through-fastening
Colour	White

Base materials

- Concrete (uncracked)
- Masonry (hollow)
- Masonry (solid)

Code	Drill bit diameter	Insulation material thickness fastened - max.	Insulation material thickness fastened - min.	Min. embedment depth	Sales pack quantity
FDP 0/2	8 mm	20 mm	0 mm	28 mm	250 pc
FDP 2/4	8 mm	40 mm	20 mm	28 mm	250 pc
FDP 4/6	8 mm	60 mm	40 mm	28 mm	250 pc
FDP 6/8	8 mm	80 mm	60 mm	28 mm	250 pc
FDP 8/10	8 mm	100 mm	80 mm	28 mm	250 pc
FDP 10/12	8 mm	120 mm	100 mm	28 mm	250 pc
FDP 13/15	8 mm	150 mm	120 mm	28 mm	250 pc



Fastener Stainless Steel Insulation Anchor FDP

Technical data

Material composition	Steel, A2 (SS 304)
Environmental conditions	Outdoor
Approvals / test reports	Fire
Type of fastening	Through-fastening

Base materials

- Concrete (uncracked)
- Masonry (hollow)
- Masonry (solid)



Code	Drill bit diameter	Anchor length	Insulation material thickness fastened - max.	Insulation material thickness fastened - min.	Sales pack quantity
FDMR 0/3	8 mm	80 mm	30 mm	0 mm	250 pc
FDMR 3/6	8 mm	110 mm	60 mm	30 mm	250 pc
FDMR 6/9	8 mm	140 mm	90 mm	60 mm	250 pc
FDMR 9/12	8 mm	170 mm	120 mm	90 mm	150 pc
FDMR 12/15	8 mm	200 mm	150 mm	120 mm	150 pc
FDMR 16/19	8 mm	240 mm	190 mm	160 mm	150 pc



Fastener Insulation Anchor

3.2.12.1 Product Description

The F-ID insulation fastener is a unique fastener designed for the attachment of rigid foam insulation to concrete, masonry or steel base materials. The fastener is pushed through the insulation until it touches the base material and then it is fastened in place with a FASTENER Powder-Actuated Tool. The F-ID fastener can fasten insulation panels ranging in thickness from 1" through 4-3/4".

The F-SS soft washer with pre-mounted Powder-Actuated fastener is designed for attaching thin membranes or panels to concrete base materials. The washers are 30mm and 60mm in diameter with nail lengths of 1-1/2", 1-7/8" and 2-1/2". These fasteners are installed using a FASTENER Powder-Actuated Tool.

3.2.12.1	Product Description
3.2.12.2	Material Specifications
3.2.12.3	Technical Data
3.2.12.4	Installation Instructions
3.2.12.5	Ordering Information



3.2.12.2 Material Specifications

FASTENER DESIGNATION	POWDER-ACTUATED FASTENER MATERIAL	POWDER-ACTUATED FASTENER PLATING ¹	WASHER MATERIAL ²
F-ID	CARBON STEEL	5µm ZINC	PLASTIC
F-SS	CARBON STEEL	5µm ZINC	PLASTIC

¹ ASTM B633, SC1, Type III. Reference Section 2.3.3.1 for more information.

² Due to potential embrittlement degradation of fastener plastic, exposure to UV light should be limited to less than 90 days.

3.2.12.3 Technical Data

Allowable Loads for F-ID Fasteners^{1,2,3}

INSULATION TYPE	INSULATION THICKNESS IN. (MM)								
	1-9/16 (40)	1-3/4 (45)	2 (50)	1-3/4 (45)	1-3/4 (45)	1-3/4 (45)	1-3/4 (45)	1-3/4 (45)	1-3/4 (45)
	SHEAR LB (KN)								
POLYSTYROL (15 KG/M ³)	35 (0.15)	45 (0.20)	55 (0.25)	65 (0.30)	65 (0.30)	75 (0.33)	80 (0.35)	80 (0.35)	80 (0.35)
POLYSTYRENE (30 KG/M ³)	135 (0.60)	135 (0.60)	135 (0.60)	135 (0.60)	135 (0.60)	135 (0.60)	135 (0.60)	135 (0.60)	135 (0.60)
	PULLOVER LB (KN)								
POLYSTYROL (15 KG/M ³)	55 (0.25)	60 (0.27)	65 (0.30)	65 (0.30)	65 (0.30)	65 (0.30)	65 (0.30)	65 (0.30)	80 (0.35)
POLYSTYRENE (30 KG/M ³)	65 (0.30)	65 (0.30)	65 (0.30)	65 (0.30)	65 (0.30)	65 (0.30)	65 (0.30)	65 (0.30)	135 (0.60)

¹ Multiple fasteners are recommended for any attachment.

² When project site base material properties are questionable, site qualification is necessary.

³ Based on attachment to concrete ($f' \geq 2000$ psi - 5000 psi), grouted CMU masonry walls, or 1/8" to 1/4" thick steel ($F_y \geq 36$ to 50 ksi).

Allowable Loads for F-SS Fasteners^{1,2,3}

DESCRIPTION	TENSION LB (KN)	SHEAR LB (KN)
F-SS	65 (0.30)	65 (0.30)

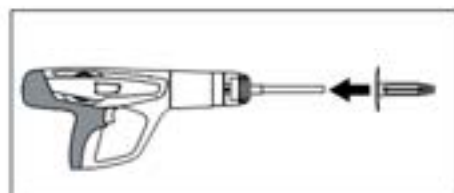
¹ Multiple fasteners are recommended for any attachment.

² Loads valid for fastener strength. Fastened material must be considered separately.

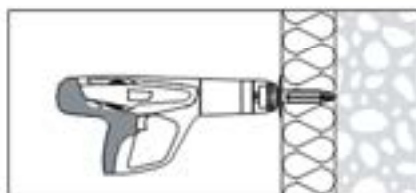
³ Based on attachment to concrete ($f' \geq 4000$ psi).

3.2.12.4 Installation Instructions*

Installation Instructions for F-ID Insulation Fasteners



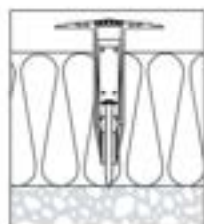
1. Load F-ID on Powder-Actuated Tool.



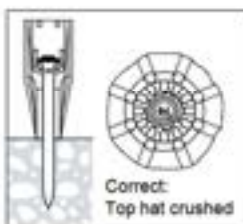
2. Push the F-ID all the way into the insulation. Fastener tip must touch base material.



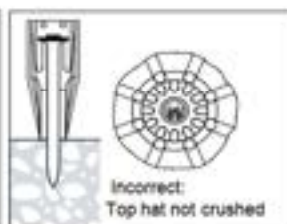
3. Make the fastening.



4. Verify successful fastening. Remove if not clamped tight to insulation.



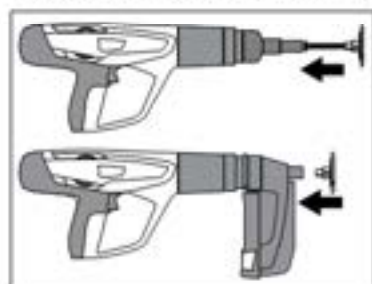
Correct:
Top hat crushed



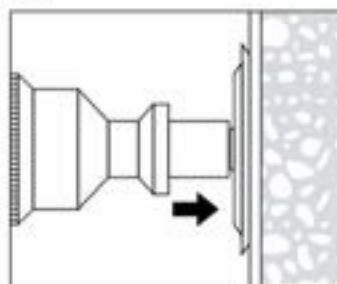
Incorrect:
Top hat not crushed

5. Visual check immediately after fastening.

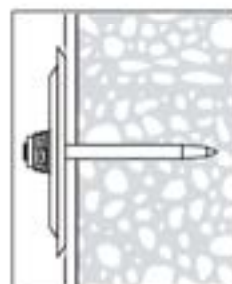
Installation Instructions for F-SS Fasteners



1. Load F-SS on Powder-Actuated Tool.



2. Press the F-SS against the surface.



3. Make the fastening.

* These are abbreviated instructions which may vary by application. **ALWAYS** review/follow the instructions accompanying the product.

3.2.12.5 Ordering Information

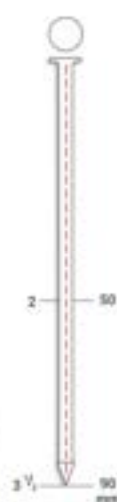
F-ID

Description	Shank Length in. (mm)	Shank Ø in. (mm)	Insulation Material Thickness in. (mm)	Washer Color	Quantity
F-ID 6-25	1-7/8 (47)	0.177 (4.5)	1 (25)	White	300 pcs
F-ID 6-35	1-7/8 (47)	0.177 (4.5)	1-1/2 (38)	White	300 pcs
F-ID 6-40	2-1/2 (62)	0.177 (4.5)	1-5/8 (42)	White	300 pcs
F-ID 6-50	2-1/2 (62)	0.177 (4.5)	2 (51)	White	300 pcs
F-ID 6-60	2-1/2 (62)	0.177 (4.5)	2-1/2 (64)	White	300 pcs
F-ID 6-70	2-1/2 (62)	0.177 (4.5)	2-3/4 (70)	White	200 pcs
F-ID 6-75	2-1/2 (62)	0.177 (4.5)	3 (76)	White	200 pcs
F-ID 6-80	2-1/2 (62)	0.177 (4.5)	3-1/4 (83)	White	200 pcs
F-ID 6-100	2-1/2 (62)	0.177 (4.5)	4 (102)	White	200 pcs
F-ID 6-120	2-7/8 (72)	0.177 (4.5)	4-3/4 (120)	White	150 pcs

F-SS

Description	Shank Length in. (mm)	Shank Ø in. (mm)	Washer Ø in. (mm)	Washer Color	Quantity
F-SS 30 C-37	1-1/2 (37)	0.138 (3.5)	1-3/16 (38)	Gray	150 pcs
F-SS 30 C-37	1-1/2 (37)	0.138 (3.5)	1-3/16 (38)	Gray	500 pcs
F-SS 30 C-37	1-1/2 (37)	0.138 (3.5)	1-3/16 (38)	White	100 pcs
F-SS 30 C-62	2-1/2 (62)	0.138 (3.5)	1-3/16 (38)	Gray	100 pcs
F-SS 60 C-37	1-1/2 (37)	0.138 (3.5)	2-3/8 (60)	Gray	150 pcs
F-SS 60 C-47	1-7/8 (47)	0.138 (3.5)	2-3/8 (60)	Gray	100 pcs
F-SS 60 C-62	2-1/2 (62)	0.138 (3.5)	2-3/8 (60)	Gray	100 pcs

FRAMING FASTENING System



TOP LOADING 21 Degree

FST-70701

PRO-FRAMING NAILER

TYPE OF NAIL	Full Round Head Plastic Collated
MAGAZINE ANGLE	20°
WEIGHT	7.96 lbs(3.62kg)
TOOL HEIGHT	14" (356mm)
OPERATING PRESSURE	80-120psi (5.5-8.3kg/cm ²)
SHANK DIA	113"-.161" (2.87-4.1mm)
FASTENERS LENGTH	50-90mm(2"-3 1/2")
CAPACITY	66 Nails

Item Code : 2000733



APPLICATION:

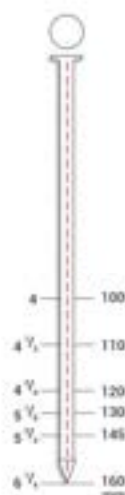
**Framing / Wall Sheathing / Roof
Sheathing / Floor Decking /
Blocking Subassemblies**



**TOP LOADING 21 Degree
FST-70698
PRO-FRAMING NAILER**

TYPE OF NAIL	Full Round Head Plastic Collated
MAGAZINE ANGLE	20°
WEIGHT	14.99 lbs(6.8kg)
OPERATING PRESSURE	80-120psi(5.5-8.3kg/cm ²)
SHANK DIA	.148"-.197" (2.87-4.1mm)
FASTENERS LENGTH	100-160mm(4"-6 1/4")
CAPACITY	55-60 Nails
MAGAZINE LOADING	TOP

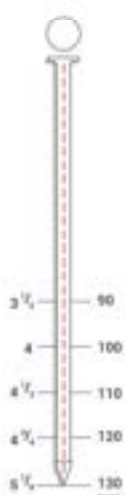
Item Code : 2000731



**TOP LOADING 21 Degree
FST-70699
PRO-FRAMING NAILER**

TYPE OF NAIL	Full Round Head Plastic Collated
MAGAZINE ANGLE	20°
WEIGHT	13.42 lbs(6.1kg)
OPERATING PRESSURE	80-120psi(5.5-8.3kg/cm ²)
SHANK DIA	.131"-.161" (2.87-4.1mm)
FASTENERS LENGTH	90-130mm(3 1/2"-5 1/8")
CAPACITY	55 Nails
MAGAZINE LOADING	TOP

Item Code : 2000732



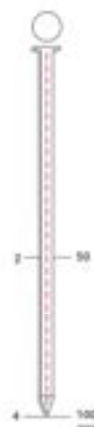


TOP LOADING 21 Degree
FST-70702
PRO-FRAMING NAILER

TYPE OF NAIL	Full Round Head Plastic Collated
MAGAZINE ANGLE	20°
WEIGHT	8lbs(3.65kg)
TOOL HEIGHT	14.3" (363mm)
OPERATING PRESSURE	80-120psi (5.5-8.3kg/cm²)
SHANK DIA	.113"-.161" (2.87-4.1mm)
FASTENERS LENGTH	60-100mm(2 3/8"-4")
CAPACITY	66 Nails



Item Code : 2000734



TOP LOADING 34 Degree
FST-707231
PRO-FRAMING NAILER

TYPE OF NAIL	Clipped Head Paper Collated
MAGAZINE ANGLE	31°
WEIGHT	7.74 lbs(3.52kg)
TOOL HEIGHT	14" (356mm)
OPERATING PRESSURE	80-120psi(5.5-8.3kg/cm²)
SHANK DIA	.113"-.150" (2.87-3.8mm)
FASTENERS LENGTH	50-100mm(2"-4")
CAPACITY	90 Nails



Item Code : 2000735

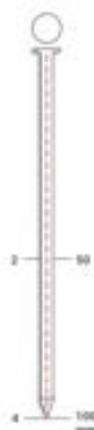


TOP LOADING 17 Degree
FST-70589
PRO-FRAMING NAILER

TYPE OF NAIL	Full Round Head Plastic Collated
MAGAZINE ANGLE	17°
WEIGHT	7.96 lbs(3.62kg)
TOOL HEIGHT	14" (356mm)
OPERATING PRESSURE	80-120psi(5.5-8.3kg/cm²)
SHANK DIA	.113"-.133" (2.87-3.4mm)
FASTENERS LENGTH	50-100mm(2"-4")
CAPACITY	55 Nails



Item Code : 2000736



REAL LOADING 21 Degree
FST-70962
PRO-FRAMING NAILER

TYPE OF NAIL	Full Round Head Plastic Collated
MAGAZINE ANGLE	20°
WEIGHT	7.90lbs (3.59kg)
TOOL HEIGHT	14.3" (363mm)
OPERATING PRESSURE	80-120psi (5.5-8.3kg/cm²)
SHANK DIA	.113" - .161" (2.87-4.1mm)
FASTENERS LENGTH	50-100mm (2"-4")
CAPACITY	66 Nails

Item Code : 2000737



REAL LOADING 21 Degree
FST-70301
PRO-FRAMING NAILER

TYPE OF NAIL	Full Round Head Plastic Collated
MAGAZINE ANGLE	20°
WEIGHT	7.70 lbs(3.50kg)
TOOL HEIGHT	14" (356mm)
OPERATING PRESSURE	80-120psi (5.5-8.3kg/cm²)
SHANK DIA	.113" - .131" (2.87-3.3mm)
FASTENERS LENGTH	50-90mm(2"-3 1/2")
CAPACITY	66 Nails

Item Code : 2000738



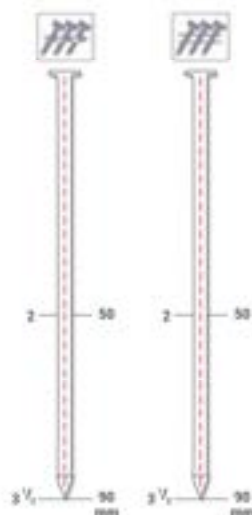
REAL LOADING 21 Degree
FST-70154
PRO-FRAMING NAILER

TYPE OF NAIL	Clipped Head Paper Collated
MAGAZINE ANGLE	31°
WEIGHT	7.63 lbs(3.47kg)
TOOL HEIGHT	14.3" (363mm)
OPERATING PRESSURE	80-120psi(5.5-8.3kg/cm²)
SHANK DIA	.113" - .148" (2.87-3.8mm)
FASTENERS LENGTH	50-100mm(2"-4")
CAPACITY	90 Nails

Item Code : 2000739



FRAMING FASTENING System



FST-70562 FRAMING COIL NAILER

SHANK	.009\"-.148\" (2.5-3.8mm)
HEAD DIA	.236\"-.295\" (6.0-7.5mm)
COLLATION ANGLE	15° Wire Welded and Sheet Collated
WEIGHT	7.6 lbs(3.48kg)
LOAD CAPACITY	150-300 Nails
OPERATING PRESSURE	70-120psi(4.9-8.3kg/cm²)

Item Code : 2000740



EASY SIDE LOADING



ADJUSTABLE WORK CONTACTING ELEMENT

Depth of drive adjustment by wheel.



SAFETY TRIGGER LOCK LEVEL



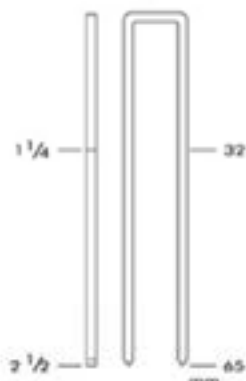
FST-70524 **FRAMING COIL NAILER**

SHANK	.099"-.150" (2.5-3.8mm)
MAGAZINE ANGLE	.303" (MAX. 7.7mm)
COLLATION ANGLE	15° Wire Welded and Sheet Collated
WEIGHT	8.03 lbs(3.65kg)
LOAD CAPACITY	150-300 Nails
OPERATING PRESSURE	70-120psi(4.9-8.3kg/cm²)

Item Code : 2000741



(TWO IN ONE)
FST-70524
 16GA. FINISH NAILER



GAUGE SIZE	16 GA-N	15 GA. ,Q
LENGTH	3/4"-2 1/2" (20-65mm)	7/16" (11.2mm)
WIDTH X THICKNESS	.063"x.055" (1.6x1.4mm)	.075"x.067" (1.9x1.7mm)
WEIGHT	6.16 lbs(2.8kg)	6.16 lbs(2.8kg)
LOAD CAPACITY	147 Staples	130 Staples
OPERATING PRESSURE	80-120psi(5.5-8.3kg/cm ²)	80-120psi(5.5-8.3kg/cm ²)

Item Code : 2000742

FST-70432
 PRO-MEDIUM CROWN STAPLER

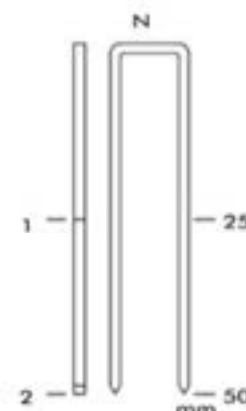


GAUGE SIZE	16 GA
CROWN SIZE	7/16"(10.6-11.2mm)
WIDTH X THICKNESS	.063"x.055" (1.6x1.4mm)
WEIGHT	4.73 lbs(2.15kg)
LOAD CAPACITY	147 Staples
OPERATING PRESSURE	80-120psi(5.5-8.3kg/cm ²)



Item Code : 2000743

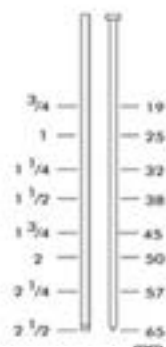
FST-70532
 PRO-MEDIUM CROWN STAPLER



GAUGE SIZE	16 GA
CROWN SIZE	7/16"(10.6-11.2mm)
WIDTH X THICKNESS	.063"x.055" (1.6x1.4mm)
WEIGHT	4.8 lbs(2.18kg)
LOAD CAPACITY	147 Staples
OPERATING PRESSURE	80-120psi(5.5-8.3kg/cm ²)



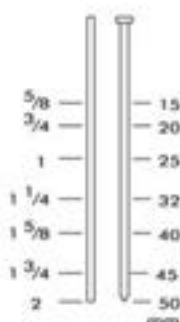
Item Code : 2000744



FST-70524 **16GA. FINISH NAILER**

GAUGE SIZE	16 GA
LENGTH	3/4"-2 1/2" (20-65mm)
WIDTH X THICKNESS	.063" x .055" (1.6 x 1.4mm)
WEIGHT	3.52 lbs (1.6kg)
LOAD CAPACITY	100 Nails
OPERATING PRESSURE	70-120psi (4.9-8.3kg/cm ²)

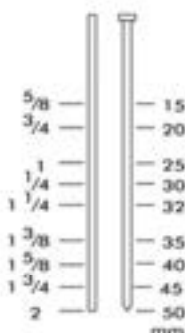
Item Code : 2000745



(UP TO 50MM FINISH NAILER) **FST-70614** **16GA. FINISH NAILER**

GAUGE SIZE	16 GA
LENGTH	5/8"-2 (15-50mm)
WIDTH X THICKNESS	.063" x .055" (1.6 x 1.4mm)
WEIGHT	3.1 lbs (1.4kg)
LOAD CAPACITY	50 Nails
OPERATING PRESSURE	70-120psi (4.9-8.3kg/cm ²)

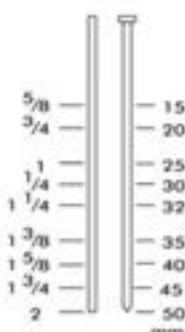
Item Code : 2000746



FST-70620 **18GA. FINISH NAILER**

GAUGE SIZE	18 GA
LENGTH	5/8"-2 (15-50mm)
WIDTH X THICKNESS	.050" x .039" (1.25 x 1.0mm)
WEIGHT	3.08 lbs (1.4kg)
LOAD CAPACITY	100 Nails
OPERATING PRESSURE	70-120psi (4.9-8.3kg/cm ²)

Item Code : 2000747



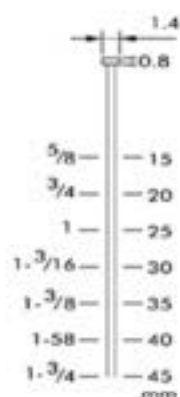
FST-70625 **18GA. FINISH NAILER**

GAUGE SIZE	18 GA
LENGTH	5/8"-1 3/4" (15-45mm)
WIDTH X THICKNESS	.050" x .039" (1.25 x 1.0mm)
WEIGHT	2.53 lbs (1.15kg)
LOAD CAPACITY	100 Nails
OPERATING PRESSURE	70-120psi (4.9-8.3kg/cm ²)

Item Code : 2000748



Bradder/ Pin Nailer System

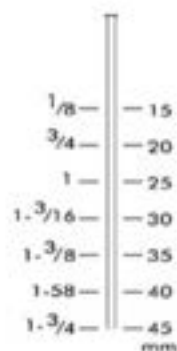


FST-70630

21GA. MINI TIP NAILER

GAUGE SIZE	21 GA
LENGTH	5/8"-1-3/4"(15-45mm)
WIDTH X THICKNESS	0.84mm (0.033")
WEIGHT	2.53 lbs(1.15kg)
LOAD CAPACITY	100 Nails
OPERATING PRESSURE	60-100psi(4.2-7.0kg/cm ²)

Item Code : 20001581



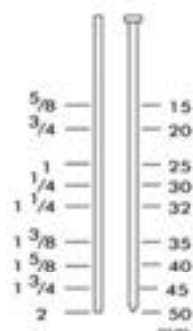
FST-70645

23GA. MINI TIP NAILER

GAUGE SIZE	23 GA
LENGTH	5/8"-1-3/4"(15-45mm)
WIDTH X THICKNESS	0.64mm (0.025")
WEIGHT	2.53 lbs(1.15kg)
LOAD CAPACITY	200 Nails
OPERATING PRESSURE	60-100psi(4.2-7.0kg/cm ²)

Item Code : 20001582

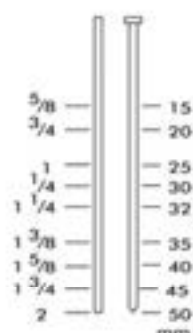




FST-70655 Angled Bradder

GAUGE SIZE	15 GA
COLLATION ANGLE	25°
LENGTH	3/4"-2" (20-50mm)
WIDTH X THICKNESS	.075"×.063" (1.90×1.6mm)
WEIGHT	3.08 lbs(1.40kg)
LOAD CAPACITY	86 Angled Brads
OPERATING PRESSURE	70-120psi(4.9-8.3kg/cm ²)

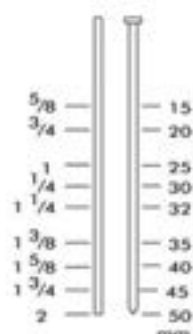
Item Code : 20001583



FST-70660 Angled Bradder

GAUGE SIZE	16 GA
COLLATION ANGLE	25°
LENGTH	3/4"-2" (20-50mm)
WIDTH X THICKNESS	.063"×.055" (1.6×1.4mm)
WEIGHT	3.08 lbs(1.40kg)
LOAD CAPACITY	100 Angled Brads
OPERATING PRESSURE	70-120psi(4.9-8.3kg/cm ²)

Item Code : 20001584



FST-70670 Angled Bradder

GAUGE SIZE	18 GA
COLLATION ANGLE	25°
LENGTH	3/4"-2" (20-50mm)
WIDTH X THICKNESS	.050"×.039" (1.25×1.0mm)
WEIGHT	3.08 lbs(1.40kg)
LOAD CAPACITY	128 Angled Brads
OPERATING PRESSURE	70-120psi(4.9-8.3kg/cm ²)

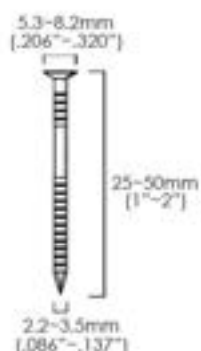
Item Code : 20001585



Drywall/ Screw Fastening System

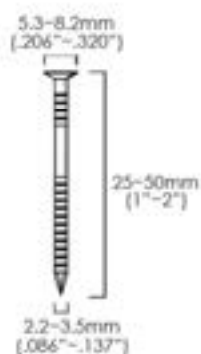


FST-330W Drywall/Screw Fastening System



SHANK	2.5-3.5mm(.099\"-.138\")
LENGTH	1\"-2\" (20-50mm)
HEAD DIA	MAX. 8.2mm(.323\")
COLLATION ANGLE	15° Sheet Collated
WEIGHT	1.93kg(4.25 lbs)
LOAD CAPACITY	200 Nails / Coil Screws
OPERATING PRESSURE	70-120psi(4.9-8.3kg/cm²)

Item Code : 20001120

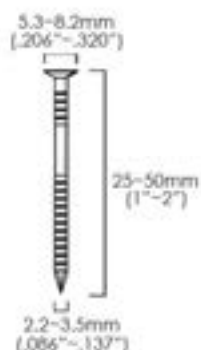


FST-335W

Drywall/Screw Fastening System

SHANK	.118"-.161" (3.0-4.1mm)
LENGTH	1"-2" (25-50mm)
HEAD DIA	MAX. 338" (8.6mm)
COLLATION ANGLE	15° Sheet Collated
WEIGHT	5.68 lbs (2.58kg)
LOAD CAPACITY	150-250 Nails / Coil Screws
OPERATING PRESSURE	70-120psi (4.9-8.3kg/cm²)

Item Code : 20001121

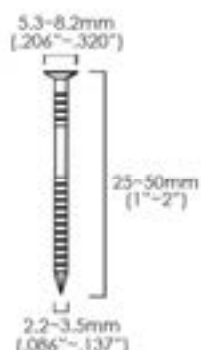


FST-345W

Drywall/Screw Fastening System

SHANK	.118"-.161" (3.0-4.1mm)
LENGTH	1"-2" (25-50mm)
HEAD DIA	MAX. 315" (8.0mm)
COLLATION ANGLE	15° Wire Welded and Sheet Collated
WEIGHT	5.68 lbs (2.58kg)
LOAD CAPACITY	150-250 Nails / Coil Screws
OPERATING PRESSURE	70-120psi (4.9-8.3kg/cm²)

Item Code : 20001122



FST-355W

Drywall/Screw Fastening System

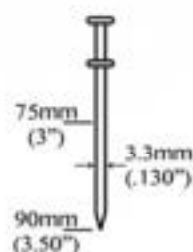
SHANK	.118"-.161" (3.0-4.1mm)
LENGTH	2"-3 1/2" (50-90mm)
HEAD DIA	MAX. 338" (8.6mm)
COLLATION ANGLE	15° Wire Welded and Sheet Collated
WEIGHT	8.03 lbs (3.65kg)
LOAD CAPACITY	150-250 Nails / Coil Screws
OPERATING PRESSURE	70-120psi (4.9-8.3kg/cm²)

Item Code : 20001123



SPECIAL FASTENING SYSTEM

FST-520 DUPLEX NAILER

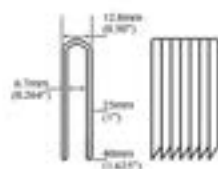


TYPE OF NAIL	Collated Duplex Nail
MAGAZINE ANGLE	20°
WEIGHT	3.50kg (7.70 lbs)
SHANK DIA.	2.87-3.3mm (.113"-.131")
FASTENERS LENGTH	50-90mm (2"-3 1/2")
CAPACITY	66 Nails
TOOL HEIGHT	356mm (14")
OPERATING PRESSURE	80-120psi (5.5-8.3kg/cm²)



Item Code : 20001162

FST-530 FENCE STAPLER

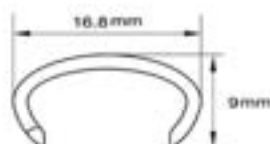


TYPE OF NAIL	Fence Staple
GAUGE SIZE	3.15mm (10 1/2 G.A)
WEIGHT	2.86 kg (6.3 lbs)
CAPACITY	52 Fence Staples
OPERATING PRESSURE	80-120psi (5.5-8.3kg/cm²)



Item Code : 20001163

FST-550 C-RING GUN



GAUGE SIZE	16 GA.
CROWN	16.8mm x 9mm
SHANK	1.6mm
CLOSURE SIZE	2.5-3.5mm
WEIGHT	3.52 lbs (1.7kg)
LOAD CAPACITY	130 Nails
OPERATING PRESSURE	70-120psi (4.9-8.3kg/cm²)



Item Code : 20001166



UDD 16

ULTRASONIC DISTANCE DETECTOR

- Ultrasonic distance detector with laser point
- Measures distance, area and volume
- Memory function
- Laser alignment
- Low battery indicator
- Metric and imperial conversions
- Spirit level
- Large, easy-to-read LCD display
- Protective case
- Complete with 1 x 9V DC battery



MFD 16

MULTI-FUNCTION DETECTOR

- Ultrasonic distance detector with laser point
- Calculation of distance, length, area and volume
- Detects metal
- Detects active circuit with AC 220V
- Detects wood
- Metric and imperial conversions
- Spirit level
- Low-battery indicator
- Large, easy-to-read LCD display with backlight
- Complete with 1 x 9V DC battery



Pcs/Pack

1

Cat. N°

20009860100

Pcs/Pack

1

Cat. N°

20009860200

Fastener

PROFESSIONAL



MEASURING TAPES

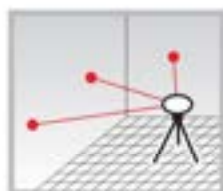
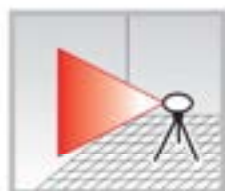
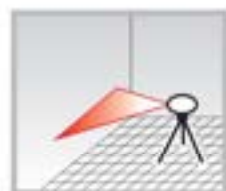
- Wide tape, strong and flexible
- Metric system
- Wear resistant covering, with ware-out protection
- Two stops
- Magnetic hook



Type	Length, m	Width, mm	Thickness, mm	Bending-Vertical, m	Bending-Horizontal, m	Pcs/Pack	Cat. №
MT 3M	3	16	0.105	1.6	1.35	1	20009711300
MT 5M	5	19	0.105	1.9	1.5	1	20009700100
MT 7.5M	7.5	25	0.105	2.8	2.0	1	20009711400
MT 10M	10	25	0.105	2.8	2.0	1	20009709800

LASER MEASURING TAPE

- Laser guide measuring tape and adjustable tripod



Type	Length, m	Width, mm	Thickness, mm	Bending-Vertical, m	Bending-Horizontal, m	Pcs/Pack	Cat. №
MT 7.5ML	7.5	25	0.105	2.8	2.0	1	20009709900

HEAVY
DUTY

PREMIUM QUALITY

- Non-slip rubber case
- Extra wide nylon covered tape for added durability



Type	Length, m	Width, mm	Thickness, mm	Bending-Vertical, m	Bending-Horizontal, m	Pcs/Pack	Cat. №
MT 3M	3	16	0.135	2.1	1.35	1	20008711300
MT 5M	5	25	0.135	3.5	2.3	1	20008700100
MT 7.5M	7.5	25	0.135	3.5	2.3	1	20008711400
MT 10M	10	25	0.135	3.5	2.3	1	20008709800



FASTENER **Metal Anchors**



TOTAL RANGE

16 VERSIONS

FS

Fastener
PROFESSIONAL

GUARANTEE OF A LEADER

SLEEVE ANCHOR WITH ANTI-SPIN FOR HEAVY-DUTY

RANGE		
FS-ES		Screw
FS-GA		Hook bolt
FS-AR		Eye bolt
FS-8.8		Hexagon head screw 8.8
FS-8.8 E		Hexagon head screw 8.8 for reduced thicknesses
FS-PL		Flat head screw
FS-PI		Flat head screw stainless steel A2
FS-TO		Hexagon head screw 6.8
FS-A2		Hexagon head screw stainless steel A2
FS-INB		Zinc-plated tamperproof head
FS-INN		Black zinc-plated tamperproof head
FS-AF		Forged eye bolt
FS-GF		Forged hook bolt
FS-AF A2		Forged eye bolt stainless steel A2
FS-GF A2		Forged hook bolt stainless steel A2
FS-GE		Hook spiral

CHARACTERISTICS

- Metallic anchor with working principle of expansion and installation by controlled torque.
- Male thread.
- Use in non-cracked concrete.
- Easy installation.
- Integral set which prevents anchor from spinning, making installation easy. Built-in anti-spin in insert, sleeve and thread.
- Use for medium loads.
- Installation through drilling of element to be fixed.

APPLICATIONS

- Sign fixings
- Shelving
- Panelling
- Porches
- Railings
- Street furniture
- Awnings
- Fence posts
- Stadium or cinema seating

BASE MATERIALS



Anti-spin sleeve anchor, for heavy-duty fixings

FS

SOLID



CODE	SIZE		
AFST08C	M6 x 45 Ø8	200	1.200
AFST08L	M6 x 60 Ø8	200	800
AFST09C	M6 x 45 Ø9	200	800
AFST09L	M6 x 60 Ø9	200	800
AFST10C	M8 x 60 Ø10	100	600
AFST10L	M8 x 80 Ø10	100	400
AFST11C	M8 x 60 Ø11	100	400
AFST11L	M8 x 80 Ø11	100	400
AFST12C	M10 x 70 Ø12	100	200
AFST12L	M10 x 100 Ø12	50	200
AFST14C	M10 x 70 Ø14	100	200
AFST14L	M10 x 100 Ø14	50	200
AFST16C	M12 x 80 Ø16	50	200
AFST16L	M12 x 110 Ø16	50	100
AFST20C	M16 x 110 Ø20	25	50
AFST25C	M20 x 130 Ø25	15	45

FS-TO

Hexagonal head screw 6.8



Blister

CODE	SIZE	PCL	BOXES
BZAFST08C	M6 x 45 Ø8	2	15
BZAFST08L	M6 x 60 Ø8	2	15
BZAFST10C	M8 x 60 Ø10	2	15
BZAFST10L	M8 x 80 Ø10	2	15
BZAFST12C	M10 x 70 Ø12	2	10
BZAFST12L	M10 x 100 Ø12	2	10



Window Box

CODE	SIZE	PCL	BOXES
VAFST08C	M6 x 45 Ø8	15	8
VAFST08L	M6 x 60 Ø8	15	8
VAFST10C	M8 x 60 Ø10	10	8
VAFST10L	M8 x 80 Ø10	10	8
VAFST12C	M10 x 70 Ø12	8	8
VAFST12L	M10 x 100 Ø12	6	8
VAFST16C	M12 x 80 Ø16	4	8



Self-Service

CODE	SIZE	PCL	BOXES
LSAFST08C	M6 x 45 Ø8	24	6
LSAFST08L	M6 x 60 Ø8	16	6
LSAFST10C	M8 x 60 Ø10	8	6
LSAFST10L	M8 x 80 Ø10	8	6
LSAFST12C	M10 x 70 Ø12	8	6
LSAFST12L	M10 x 100 Ø12	8	6
LSAFST16C	M12 x 80 Ø16	4	5

STAINLESS STEEL



CODE	SIZE		
AFSTA208C	M6 x 45 Ø8	100	1.200
AFSTA208L	M6 x 60 Ø8	100	600
AFSTA209C	M6 x 45 Ø9	100	1.200
AFSTA209L	M6 x 60 Ø9	100	600
AFSTA210C	M8 x 60 Ø10	100	600
AFSTA210L	M8 x 80 Ø10	100	400
AFSTA211C	M8 x 60 Ø11	100	400
AFSTA211L	M8 x 80 Ø11	100	400
AFSTA212C	M10 x 70 Ø12	100	200
AFSTA212L	M10 x 100 Ø12	50	200
AFSTA214C	M10 x 70 Ø14	100	300
AFSTA214L	M10 x 100 Ø14	50	200
AFSTA216C	M12 x 80 Ø16	50	100
AFSTA216L	M12 x 110 Ø16	50	100
AFSTA220C	M16 x 110 Ø20	25	75

FS-A2

Stainless steel A2



Blister

CODE	SIZE	PCL	BOXES
BZAFSTA208C	M6 x 45 Ø8	2	15
BZAFSTA208L	M6 x 60 Ø8	2	15
BZAFSTA210C	M8 x 60 Ø10	2	15
BZAFSTA210L	M8 x 80 Ø10	2	15



Window Box

CODE	SIZE	PCL	BOXES
VAFSTA208C	M6 x 45 Ø8	10	8
VAFSTA208L	M6 x 60 Ø8	10	8
VAFSTA210C	M8 x 60 Ø10	6	8
VAFSTA210L	M8 x 80 Ø10	6	8
VAFSTA212C	M10 x 70 Ø12	4	8
VAFSTA212L	M10 x 100 Ø12	4	8



Self-Service

CODE	SIZE	PCL	BOXES
LSAFSTA208C	M6 x 45 Ø8	12	6
LSAFSTA208L	M6 x 60 Ø8	12	6
LSAFSTA210C	M8 x 60 Ø10	8	6
LSAFSTA210L	M8 x 80 Ø10	8	6
LSAFSTA212C	M10 x 70 Ø12	6	6
LSAFSTA212L	M10 x 100 Ø12	4	5

FS

Anti-spin sleeve anchor, for heavy-duty fixings

FS-8.8

Hexagonal head screw 8.8



SOLID



CODE	SIZE		
AFST8808C	M6 x 45 Ø8	200	1,200
AFST8808L	M6 x 60 Ø8	200	800
AFST8810C	M8 x 60 Ø10	100	600
AFST8810L	M8 x 80 Ø10	100	400
AFST8812C	M10 x 70 Ø12	100	200
AFST8812L	M10 x 100 Ø12	50	200
AFST8814C	M12 x 80 Ø16	50	200
AFST8816L	M12 x 110 Ø16	50	100
AFST8820C	M16 x 110 Ø20	25	50

FS-8.8 E

Hexagonal head screw 8.8 for reduced thicknesses



SOLID



CODE	SIZE		
AFST8808E	M6 x 40 Ø8	200	1,200
AFST8810E	M8 x 40 Ø10	100	600

FS-8.8 E

Especially suitable for fixings on reduced thicknesses of concrete

FS-PL

Flat head screw



SOLID



CODE	SIZE		
AFSTPL08C	M6 x 45 Ø8	4	100
AFSTPL08L	M6 x 60 Ø8	4	100
AFSTPL10C	M8 x 60 Ø10	5	100
AFSTPL10L	M8 x 80 Ø10	5	100
AFSTPL12C	M10 x 70 Ø12	6	50
AFSTPL12L	M10 x 100 Ø12	6	50

FS-PI

Stainless steel A2 flat head screw



STAINLESS STEEL



CODE	SIZE		
AFSTPI08C	M6 x 45 Ø8	4	100
AFSTPI08L	M6 x 60 Ø8	4	100
AFSTPI10C	M8 x 60 Ø10	5	100
AFSTPI10L	M8 x 80 Ø10	5	100
AFSTPI12C	M10 x 70 Ø12	6	50
AFSTPI12L	M10 x 100 Ø12	6	50

Anti-spin sleeve anchor, for heavy-duty fixings

FS

SOLID



CODE	SIZE		
AFSE08C	M6 x 45 Ø8	200	1,200
AFSE09C	M6 x 45 Ø9	200	800
AFSE10C	M8 x 60 Ø10	100	600
AFSE10L	M8 x 80 Ø10	100	400
AFSE11C	M8 x 60 Ø11	100	600
AFSE11L	M8 x 80 Ø11	100	400
AFSE12C	M10 x 70 Ø12	100	200
AFSE12L	M10 x 100 Ø12	50	200
AFSE14C	M10 x 70 Ø14	100	200
AFSE14L	M10 x 100 Ø14	50	200

SOLID



CODE	SIZE	OPENING HOOK		
AFSG08C	M6 x 45 Ø8	10	100	600
AFSG09C	M6 x 45 Ø9	10	100	600
AFSG10C	M8 x 60 Ø10	13	100	400
AFSG11C	M8 x 60 Ø11	13	100	400
AFSG12C	M10 x 70 Ø12	14	50	200
AFSG14C	M10 x 70 Ø14	14	50	200
AFSG16C	M12 x 80 Ø16	22	25	100



Blister



Window Box



Self-Service

CODE	SIZE	PCS	BOXES
BZAFSG08C	M6 x 45 Ø8	2	15
BZAFSG10C	M8 x 60 Ø10	2	15
BZAFSG12C	M10 x 70 Ø12	2	10

CODE	SIZE	PCS	BOXES
VAFSG08C	M6 x 45 Ø8	10	8
VAFSG10C	M8 x 60 Ø10	6	8

CODE	SIZE	PCS	BOXES
LSAFSG08C	M6 x 45 Ø8	12	6
LSAFSG10C	M8 x 60 Ø10	6	6

SOLID



CODE	SIZE	EYE BOLT Ø		
AFSA08C	M6 x 45 Ø8	10	100	600
AFSA09C	M6 x 45 Ø9	10	100	600
AFSA10C	M8 x 60 Ø10	13	100	400
AFSA11C	M8 x 60 Ø11	13	100	200
AFSA12C	M10 x 70 Ø12	14	50	200
AFSA14C	M10 x 70 Ø14	14	50	200
AFSA16C	M12 x 80 Ø16	22	25	100



Blister



Window Box



Self-Service

CODE	SIZE	PCS	BOXES
BZAFSA08C	M6 x 45 Ø8	2	15
BZAFSA10C	M8 x 60 Ø10	2	15
BZAFSA12C	M10 x 70 Ø12	2	10

CODE	SIZE	PCS	BOXES
VAFSA08C	M6 x 45 Ø8	10	8
VAFSA10C	M8 x 60 Ø10	6	8

CODE	SIZE	PCS	BOXES
LSAFSA08C	M6 x 45 Ø8	14	6
LSAFSA10C	M8 x 60 Ø10	6	6

FS-ES

Projecting bolt



FS-GA

Hook bolt



FS-AR

Eye bolt

NEW
BLISTER

MAXIMUM USE OF SPACE

WE INCREASE YOUR PRODUCTIVITY [EASYPackaging]

ATTRACTIVE VISUAL PACKAGING

POS SUPPORT TO ENHANCE PURCHASING EXPERIENCE

WE PROMOTE SELF-SERVICE



FS

Anti-spin sleeve anchor, for heavy-duty fixings

FS-INB

Zinc-plated tamperproof head



SOLID



CODE	SIZE			
AFSINB08C	M6 x 45 Ø8	140	100	1.200
AFSINB08L	M6 x 60 Ø8	140	100	800
AFSINB10C	M8 x 60 Ø10	140	100	600
AFSINB10L	M8 x 80 Ø10	140	100	400



Blister

CODE	SIZE	PCS. BL	BAGS 100
BZAFSINB08C	M6 x 45 Ø8	2	15
BZAFSINB10C	M8 x 60 Ø10	2	15

FS-INN

Black zinc-plated tamperproof head



SOLID



CODE	SIZE			
AFSINN08C	M6 x 45 Ø8	140	100	1.200
AFSINN08L	M6 x 60 Ø8	140	100	800
AFSINN10C	M8 x 60 Ø10	140	100	600
AFSINN10L	M8 x 80 Ø10	140	100	400

FS-AF

Forged eye bolt



SOLID



CODE	SIZE	EYE BOLT Ø		
AFSAFO08C	M6 x 45 Ø8	10	100	600
AFSAFO10C	M8 x 60 Ø10	12	100	400
AFSAFO12C	M10 x 70 Ø12	14	50	200

FS-GF

Forged hook bolt



SOLID



CODE	SIZE	HOOK OPENING		
AFSGFO08C	M6 x 45 Ø8	10	100	600
AFSGFO10C	M8 x 60 Ø10	11	100	400
AFSGFO12C	M10 x 70 Ø12	14	50	200

Anti-spin sleeve anchor, for heavy-duty fixings

FS

STAINLESS STEEL



A2

CODE	SIZE	EYE BOLT Ø		
AFSAA208C	M6 x 45 Ø8	10	100	600
AFSAA210C	M8 x 60 Ø10	11	100	400
AFSAA212C	M10 x 70 Ø12	14	50	200

FS-AF A2

Stainless steel A2 forged eye bolt



STAINLESS STEEL



A2

CODE	SIZE	OPENING HOOK		
AFSGA208C	M6 x 45 Ø8	10	100	600
AFSGA210C	M8 x 60 Ø10	11	100	400
AFSGA212C	M10 x 70 Ø12	14	50	200

FS-GF A2

Stainless steel A2 forged hook bolt



SOLID



Z

CODE	SIZE		
AFSGE10	M8 x 115 Ø10	25	150
AFSGE12	M10 x 135 Ø12	15	90

FS-GE

Hook spiral

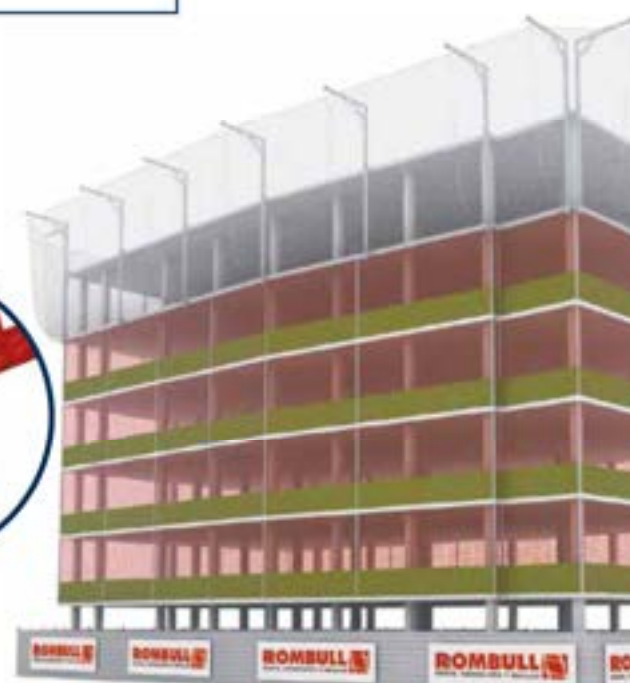


Hook bolt, eye bolt and spiral hook available separately on page 230



FS-GE

SPIRAL HOOK BOLT FOR NETTING, MESH
AND CABLE FIXING



FS

Steel anchor for heavy-duty fixings

FS-CA

Shield



SOLID



CODE	SIZE	SHIELD LENGTH		
AFSCA0645	M6 x 45 Ø12	40	100	1200
AFSCA0855	M8 x 55 Ø14	45	50	600
AFSCA1065	M10 x 65 Ø16	55	50	300
AFSCA1275	M12 x 75 Ø20	70	25	150
AFSCA1690	M16 x 90 Ø24	90	10	60

FS-CI

Stainless-steel A2 shield



STAINLESS STEEL



CODE	SIZE	SHIELD LENGTH		
AFSCI0645	M6 x 45 Ø12	40	100	600
AFSCI0855	M8 x 55 Ø14	48	50	600
AFSCI1065	M10 x 65 Ø16	59	50	300

FS-TO

Loose bolt 8.8



SOLID



CODE	SIZE		
AFSTO0645	M6 x 45 Ø12	100	600
AFSTO0855	M8 x 55 Ø14	50	300
AFSTO1065	M10 x 65 Ø16	50	200
AFSTO1275	M12 x 75 Ø20	25	100
AFSTO1690	M16 x 90 Ø24	10	40

FS-AR

Eye bolt



SOLID



CODE	SIZE	EYE BOLT Ø		
AFSAR0645	M6 x 45 Ø12	10	100	400
AFSAR0855	M8 x 55 Ø14	12	50	300
AFSAR1065	M10 x 65 Ø16	14	50	200
AFSAR1275	M12 x 75 Ø20	17	25	75
AFSAR1690	M16 x 90 Ø24	23	10	30

FS-GA

Hook bolt



SOLID



CODE	SIZE	OPENING HOOK		
AFSGA0645	M6 x 45 Ø12	10	100	400
AFSGA0855	M8 x 55 Ø14	11	50	300
AFSGA1065	M10 x 65 Ø16	14	50	100
AFSGA1275	M12 x 75 Ø20	18	25	75
AFSGA1690	M16 x 90 Ø24	19	10	30

Winged steel anchor for heavy-duty fixings

FS

SOLID



CODE	SIZE	SHIELD LENGTH		
AFSCA06	M6 x 40 Ø10	40	50	1.200
AFSCA08	M8 x 50 Ø14	50	50	600
AFSCA10	M10 x 60 Ø16	60	50	300
AFSCA12	M12 x 80 Ø20	80	25	300
AFSCA16	M16 x 100 Ø25	100	10	120

STAINLESS STEEL



CODE	SIZE	SHIELD LENGTH		
AFSCI06	M6 x 40 Ø10	40	50	1.200
AFSCI08	M8 x 50 Ø14	50	50	600
AFSCI10	M10 x 60 Ø16	60	25	300
AFSCI12	M12 x 80 Ø20	80	10	120

SOLID



CODE	SIZE	PROJECTING BOLT LENGTH		
AFSTO06	M6 x 40 Ø10	50	50	600
AFSTO08	M8 x 50 Ø14	60	50	300
AFSTO10	M10 x 60 Ø16	70	50	200
AFSTO12	M12 x 80 Ø20	100	25	100
AFSTO16	M16 x 100 Ø25	120	10	30

SOLID



CODE	SIZE	PROJECTING BOLT LENGTH		
AFSES06	M6 x 40 Ø10	60	50	600
AFSES08	M8 x 50 Ø14	70	50	300
AFSES10	M10 x 60 Ø16	80	50	200
AFSES12	M12 x 80 Ø20	115	25	100

SOLID



CODE	SIZE	EYE BOLT Ø		
AFSAR06	M6 x 40 Ø10	10	50	600
AFSAR08	M8 x 50 Ø14	12	50	300
AFSAR10	M10 x 60 Ø16	14	50	200
AFSAR12	M12 x 80 Ø20	17	25	100

SOLID



CODE	SIZE	OPENING HOOK		
AFSGA06	M6 x 40 Ø10	10	50	600
AFSGA08	M8 x 50 Ø14	11	50	300
AFSGA10	M10 x 60 Ø16	14	50	100
AFSGA12	M12 x 80 Ø20	18	25	50

FS-CA

Shield



FS-CI

Stainless steel A4 shield



FS-TO

Loose bolt 6.8



FS-ES

Projecting bolt



FS-AR

Eye bolt



FS-AR

Hook bolt



FS

Anchor for medium-heavy loads in hollow and solid elements

FS-TO

Loose bolt



PATENT

SOLID



CODE	SIZE	SHIELD LENGTH		
AFSMT06	M6 x 50 Ø12	48	100	600
AFSMT08	M8 x 60 Ø14	50	100	400
AFSMT10	M10 x 80 Ø16	58	50	200
AFSMT12	M12 x 100 Ø20	72	25	100
AFSMT16	M16 x 140 Ø25	107	25	50

FS-ES

Projecting bolt



PATENT

SOLID



CODE	SIZE	SCREW SIZE		
AFSME06	M6 x 60 Ø12	60	100	600
AFSME08	M8 x 70 Ø14	70	100	400
AFSME10	M10 x 100 Ø16	100	50	200
AFSME12	M12 x 120 Ø20	120	25	100
AFSME16	M16 x 140 Ø25	140	25	50

FS-TL

Long loose bolt



PATENT

SOLID



CODE	SIZE	SCREW SIZE		
FST06L10	M6 x 60 Ø12	60	100	600
FST06L30	M6 x 80 Ø12	80	100	600
FST08L15	M8 x 70 Ø14	70	100	400
FST08L35	M8 x 90 Ø14	90	100	200
FST08L45	M8 x 100 Ø14	100	100	300
FST10L10	M10 x 70 Ø16	70	50	200
FST10L30	M10 x 90 Ø16	90	50	200
FST10L50	M10 x 110 Ø16	110	50	200
FST10L80	M10 x 140 Ø16	140	50	150
FST12L15	M12 x 90 Ø20	90	25	100
FST12L45	M12 x 120 Ø20	120	25	50
FST12L65	M12 x 140 Ø20	140	25	100

FS-PR

Long loose bolt with pipe



PATENT

SOLID



CODE	SIZE	PIPE LENGTH		
FSP06C40	M6 x 90 Ø12	40	100	400
FSP08C15	M8 x 70 Ø14	15	100	200
FSP08C45	M8 x 100 Ø14	45	100	300
FSP10C50	M10 x 110 Ø16	50	50	100
FSP10C80	M10 x 140 Ø16	80	50	100
FSP12C15	M12 x 90 Ø20	15	25	100
FSP12C65	M12 x 140 Ø20	65	25	50

Anchor for medium-heavy loads in hollow and solid elements

FS

SOLID



CODE	SIZE	SHIELD LENGTH		
AFSMC06	M6 x 48 Ø12	48	100	1.200
AFSMC08	M8 x 50 Ø14	50	100	600
AFSMC10	M10 x 58 Ø16	58	50	300
AFSMC12	M12 x 72 Ø20	72	25	300
AFSMC16	M16 x 107 Ø25	107	25	150

SOLID



CODE	SIZE	EYE BOLT Ø		
AFSMA06	M6 x 48 Ø12	10	50	600
AFSMA08	M8 x 50 Ø14	13	50	300
AFSMA10	M10 x 58 Ø16	14	25	150
AFSMA12	M12 x 72 Ø20	22	25	100

SOLID



CODE	SIZE	EYE BOLT Ø		
AFSMAFO06	M6 x 48 Ø12	10	50	600
AFSMAFO08	M8 x 50 Ø14	12	50	300
AFSMAFO10	M10 x 58 Ø16	14	25	150
AFSMAFO12	M12 x 72 Ø20	17	25	100

SOLID



CODE	SIZE	OPENING HOOK		
AFSMG06	M6 x 48 Ø12	10	50	600
AFSMG08	M8 x 50 Ø14	13	50	300
AFSMG10	M10 x 58 Ø16	14	25	150
AFSMG12	M12 x 72 Ø20	22	25	100

SOLID



CODE	SIZE	OPENING HOOK		
AFSMGFO06	M6 x 45 Ø12	10	50	600
AFSMGFO08	M8 x 50 Ø14	11	50	300
AFSMGFO10	M10 x 56 Ø16	14	25	150
AFSMGFO12	M12 x 70 Ø20	18	25	100

FS-CA

Shield



PATENT

FS-AR

Eye bolt



PATENT

FS-AF

Forged eye bolt



PATENT

FS-GA

Hook bolt



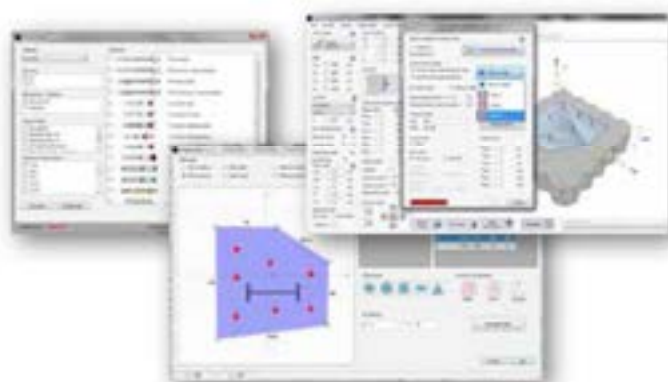
PATENT

FS-GF

Forged hook bolt



PATENT





ADVANTAGES

10

The MT family has 10 models, designed based on the needs of the installer.

- Materials: Steel and stainless steel
- Coatings: Zinc-plated, Sherardized, Hot-dip galvanized
- Inch or metric thread

WE ARE MANUFACTURER

Leaders in metallic anchor manufacturing. The actual design and the production process guarantee a product which remains a market leader year after year.



High load capacity thanks to insert and axis thread design. Allows anchor installation at reduced distances between axes and from edges.



Quality Guarantee. Our products have the most prestigious assessments; EOTA, ICC, Seismic Assessment, Fire Assessment and CE Certification.



Suitable for solid materials: Cracked concrete, non-cracked concrete, reinforced concrete and stone.



Length indicated on the head using a letter for anchor identification purposes after installation.

USES



Fastener
PROFESSIONAL

GUARANTEE
of a **LEADER**

MTP-X

Length indicated on the head using a letter for anchor identification purpose after installation.

ASSESSMENTS AND CERTIFICATIONS



OPTION 1



FIRE
RESISTANCE



SEISMIC
C2&C1

CRACKED AND NON-CRACKED CONCRETE
Suitable for installation in cracked concrete, non-cracked concrete, as well as in reinforced concrete and stone.

ZINC-PLATED SHAFT

SHERARDIZED CLIP
Guarantees high resistance to corrosion.

Through bolt anchor for heavy loads

MT

SOLID



CODE	SEISMIC ASSESSMENT	SIZE	MAX. FUTURE THICKNESS	AXIS LETTER (LENGTH)		
FP08050	-	M8 x 50 Ø8	2	A	100	800
FP08075	-	M8 x 75 Ø8	9	C	100	600
FP08095	-	M8 x 95 Ø8	29	E	100	600
FP08115	-	M8 x 115 Ø8	49	G	100	400
FP10090	C1	M10 x 90 Ø10	10	E	100	400
FP10105	C1	M10 x 105 Ø10	25	F	50	300
FP10115	C1	M10 x 115 Ø10	35	G	50	200
FP10135	C1	M10 x 135 Ø10	55	H	50	200
FP10165	C1	M10 x 165 Ø10	85	K	50	200
FP10185	C1	M10 x 185 Ø10	105	L	50	150
FP12080	-	M12 x 80 Ø12	4	D	50	300
FP12100	C1&C2	M12 x 100 Ø12	4	E	50	400
FP12110	C1&C2	M12 x 110 Ø12	14	F	50	200
FP12120	C1&C2	M12 x 120 Ø12	24	G	50	200
FP12130	C1&C2	M12 x 130 Ø12	34	H	50	200
FP12150	C1&C2	M12 x 150 Ø12	54	I	50	100
FP12180	C1&C2	M12 x 180 Ø12	84	L	50	150
FP12200	C1&C2	M12 x 200 Ø12	104	M	50	150
FP16145	C1&C2	M16 x 145 Ø16	28	I	25	100
FP16175	C1&C2	M16 x 175 Ø16	58	K	25	50
FP16220	C1&C2	M16 x 220 Ø16	103	O	25	50
FP16250	C1&C2	M16 x 250 Ø16	133	Q	25	50
FP20170	-	M20 x 170 Ø20	32	K	20	40
FP20200	-	M20 x 200 Ø20	62	M	20	40
FP24205	-	M24 x 205 Ø24	35	N	10	30
FP24235	-	M24 x 235 Ø24	65	P	10	20

• Non-assessed sizes

SOLID



CODE	SEISMIC ASSESSMENT	SIZE	MAX. FUTURE THICKNESS	AXIS LETTER (LENGTH)		
FPX08050	-	M8 x 50 Ø8	2	A	100	800
FPX08075	-	M8 x 75 Ø8	9	C	100	600
FPX08095	-	M8 x 95 Ø8	29	E	100	600
FPX08115	-	M8 x 115 Ø8	49	G	100	400
FPX10090	C1&C2	M10 x 90 Ø10	10	E	100	400
FPX10105	C1&C2	M10 x 105 Ø10	25	F	50	300
FPX10115	C1&C2	M10 x 115 Ø10	35	G	50	200
FPX10135	C1&C2	M10 x 135 Ø10	55	H	50	200
FPX10165	C1&C2	M10 x 165 Ø10	85	K	50	200
FPX10185	C1&C2	M10 x 185 Ø10	105	L	50	150
FPX12080	C1&C2	M12 x 80 Ø12	4	D	50	300
FPX12100	C1&C2	M12 x 100 Ø12	4	E	50	200
FPX12110	C1&C2	M12 x 110 Ø12	14	F	50	200
FPX12120	C1&C2	M12 x 120 Ø12	24	G	50	200
FPX12130	C1&C2	M12 x 130 Ø12	34	H	50	200
FPX12150	C1&C2	M12 x 150 Ø12	54	I	50	100
FPX12180	C1&C2	M12 x 180 Ø12	84	L	50	150
FPX12200	C1&C2	M12 x 200 Ø12	104	M	50	150
FPX16145	C1&C2	M16 x 145 Ø16	28	I	25	100
FPX16175	C1&C2	M16 x 175 Ø16	58	K	25	50
FPX16220	C1&C2	M16 x 220 Ø16	103	O	25	50
FPX16250	C1&C2	M16 x 250 Ø16	133	Q	25	50
FPX20170	C1&C2	M20 x 170 Ø20	32	K	20	40
FPX20200	C1&C2	M20 x 200 Ø20	62	M	20	40

MTP-X

Option 1 ETA Assessed



MT

Through bolt anchor for heavy loads

MTP-G

Sherardized shaft. Option 1 ETA Assessed.
A4 Stainless clip



TS
Technical Regulation 3.1
Regulation 3.1
ETA 11001
Structural strength in
concrete



DO-MT
Setting tool

MTP-A4

Stainless steel A4. Option 1 ETA Assessed.
A4 Stainless clip



TS
Technical Regulation 3.1
Regulation 3.1
ETA 11001
Structural strength in
concrete



DO-MT
Setting tool

SOLID



CODE	SIZE	MAX. FIXTURE THICKNESS	AXIS LETTER (LENGTH)		
FPG06060	M6 x 60 Ø6	10	B	200	1.200
FPG06070	M6 x 70 Ø6	20	C	200	1.200
FPG06100	M6 x 100 Ø6	50	E	200	800
FPG08050	M8 x 50 Ø8	2	A	100	800
FPG08060	M8 x 60 Ø8	12	B	100	800
FPG08075	M8 x 75 Ø8	9	C	100	600
FPG08095	M8 x 95 Ø8	29	E	100	600
FPG08115	M8 x 115 Ø8	49	G	100	400
FPG10070	M10 x 70 Ø10	5	C	100	400
FPG10090	M10 x 90 Ø10	10	E	100	400
FPG10105	M10 x 105 Ø10	25	F	50	300
FPG10115	M10 x 115 Ø10	35	G	50	200
FPG10135	M10 x 135 Ø10	55	H	50	200
FPG10165	M10 x 165 Ø10	85	K	50	200
FPG10185	M10 x 185 Ø10	105	L	50	150
FPG12080	M12 x 80 Ø12	4	D	50	300
FPG12110	M12 x 110 Ø12	14	F	50	200
FPG12130	M12 x 130 Ø12	34	H	50	200
FPG12150	M12 x 150 Ø12	54	I	50	100
FPG12180	M12 x 180 Ø12	84	L	50	150
FPG12200	M12 x 200 Ø12	104	M	50	150
FPG16125	M16 x 125 Ø16	8	G	25	100
FPG16145	M16 x 145 Ø16	28	I	25	100
FPG16175	M16 x 175 Ø16	58	K	25	50
FPG16220	M16 x 220 Ø16	103	O	25	50
FPG20170	M20 x 170 Ø20	32	K	20	40
FPG20200	M20 x 200 Ø20	62	M	20	40

• Non-assessed sizes

STAINLESS STEEL



CODE	SIZE	MAX. FIXTURE THICKNESS	AXIS LETTER (LENGTH)		
FPA408068	M8 x 68 Ø8	4	A	100	600
FPA408075	M8 x 75 Ø8	10	B	100	600
FPA408090	M8 x 90 Ø8	25	C	100	600
FPA408115	M8 x 115 Ø8	50	D	100	400
FPA408135	M8 x 135 Ø8	70	E	50	300
FPA408165	M8 x 165 Ø8	100	G	50	200
FPA410090	M10 x 90 Ø10	10	A	100	400
FPA410105	M10 x 105 Ø10	25	B	50	300
FPA410115	M10 x 115 Ø10	35	C	50	300
FPA410135	M10 x 135 Ø10	55	D	50	300
FPA410155	M10 x 155 Ø10	75	E	50	300
FPA410185	M10 x 185 Ø10	105	F	50	100
FPA412110	M12 x 110 Ø12	10	A	50	300
FPA412120	M12 x 120 Ø12	20	B	50	300
FPA412145	M12 x 145 Ø12	45	C	50	200
FPA412170	M12 x 170 Ø12	70	D	50	100
FPA412200	M12 x 200 Ø12	100	E	50	100
FPA416130	M16 x 130 Ø16	10	A	50	100
FPA416150	M16 x 150 Ø16	30	B	25	100
FPA416185	M16 x 185 Ø16	60	C	25	50
FPA416220	M16 x 220 Ø16	100	D	20	40

Through bolt anchor for heavy loads

MT

SOLID



MTH

Option 7 ETA Assessed. Zinc-plated shaft. Zinc-plated clip

CODE	SIZE	MAX. FIXTURE THICKNESS	AXIS LETTER (LENGTH)		
FS06060	M6 x 60 D6	2	B	200	1.200
FS06070	M6 x 70 D6	12	C	200	1.200
FS06080	M6 x 80 D6	22	D	200	1.200
FS06090	M6 x 90 D6	32	E	200	1.200
FS06100	M6 x 100 D6	42	E	200	800
FS06110	M6 x 110 D6	52	F	200	800
FS06120	M6 x 120 D6	62	G	100	600
FS08060	M8 x 60 D8	3	B	100	600
FS08075	M8 x 75 D8	5	C	100	600
FS08090	M8 x 90 D8	20	E	100	600
FS08100	M8 x 100 D8	30	E	100	400
FS08115	M8 x 115 D8	45	G	100	400
FS08120	M8 x 120 D8	50	G	100	400
FS08130	M8 x 130 D8	60	H	100	400
FS08155	M8 x 155 D8	85	J	100	200
FS10070	M10 x 70 D10	3	C	100	400
FS10080	M10 x 80 D10	13	D	100	400
FS10090	M10 x 90 D10	10	E	100	400
FS10100	M10 x 100 D10	20	E	100	400
FS10120	M10 x 120 D10	40	G	50	300
FS10140	M10 x 140 D10	60	I	50	200
FS10150	M10 x 150 D10	70	I	50	200
FS10180	M10 x 180 D10	80	J	50	200
FS10170	M10 x 170 D10	90	K	50	200
FS10210	M10 x 210 D10	130	N	50	150
FS10230	M10 x 230 D10	150	P	50	100
FS12090	M12 x 90 D12	13	E	50	200
FS12100	M12 x 100 D12	8	E	50	200
FS12110	M12 x 110 D12	18	F	50	200
FS12120	M12 x 120 D12	28	G	50	200
FS12130	M12 x 130 D12	38	H	50	200
FS12140	M12 x 140 D12	48	I	50	200
FS12160	M12 x 160 D12	68	J	50	100
FS12180	M12 x 180 D12	88	L	50	150
FS12200	M12 x 200 D12	108	M	50	100
FS12220	M12 x 220 D12	128	O	50	100
FS12250	M12 x 250 D12	158	Q	25	50
FS14120	M14 x 120 D14	12	G	25	100
FS14145	M14 x 145 D14	37	I	25	100
FS14170	M14 x 170 D14	62	K	25	100
FS14220	M14 x 220 D14	112	O	25	75
FS14250	M14 x 250 D14	142	Q	25	50
FS16125	M16 x 125 D16	3	G	25	100
FS16145	M16 x 145 D16	23	I	25	100
FS16170	M16 x 170 D16	48	K	25	50
FS16220	M16 x 220 D16	98	O	25	50
FS16250	M16 x 250 D16	128	Q	25	50
FS16280	M16 x 280 D16	158	S	25	50
FS20170	M20 x 170 D20	23	K	20	40
FS20220	M20 x 220 D20	73	O	20	40
FS20270	M20 x 270 D20	123	S	20	40



TS
Technical Evaluation S.L.
Ingénieur S.L. Logistique
Sole
ETA-08/04
1275
Structural change in non
cracked concrete



Self-Service

CODE	SIZE	PCL 	BAGS
FSAH06060	M6 x 60 D6	30	6
FSAH08060	M8 x 60 D8	20	6
FSAH08075	M8 x 75 D8	16	6
FSAH08090	M8 x 90 D8	14	6
FSAH10070	M10 x 70 D10	10	5
FSAH10090	M10 x 90 D10	8	6
FSAH10120	M10 x 120 D10	6	6
FSAH12090	M12 x 90 D12	6	5
FSAH12110	M12 x 110 D12	6	5
FSAH16125	M16 x 125 D16	2	6

MTA
CERTIFIEDMTH
OPTION 7 ASSESSEDMTP
OPTION 1 ASSESSED

MT

Through bolt anchor for heavy loads

MTH-A4

Stainless steel A4, Option 7 ETA Assessed.
A4 Stainless clip



TS
Technical Regulation S.L.
Regulation T.L. Ligatura
Nº 1719
Structural design in non
cracked concrete



STAINLESS STEEL



CODE	SIZE	MAX. FUTURE THICKNESS	AXIS LETTER (LENGTH)		
FSA406045	M6 x 45 Ø6	1	A	200	1.200
FSA406060	M6 x 60 Ø6	2	B	200	1.200
FSA406080	M6 x 80 Ø6	22	D	200	1.200
FSA408050	M8 x 50 Ø8	4	A	100	800
FSA408075	M8 x 75 Ø8	5	C	100	600
FSA408090	M8 x 90 Ø8	20	E	100	600
FSA408115	M8 x 115 Ø8	45	G	100	400
FSA410070	M10 x 70 Ø10	3	C	100	400
FSA410090	M10 x 90 Ø10	10	D	100	400
FSA410120	M10 x 120 Ø10	40	G	50	300
FSA410150	M10 x 150 Ø10	70	I	50	300
FSA412075	M12 x 75 Ø12	5	C	50	300
FSA412090	M12 x 90 Ø12	13	D	50	200
FSA412110	M12 x 110 Ø12	12	F	50	200
FSA412140	M12 x 140 Ø12	42	I	50	200
FSA416090	M16 x 90 Ø16	4	D	25	150
FSA416145	M16 x 145 Ø16	23	I	25	100
FSA416170	M16 x 170 Ø16	48	K	25	75
FSA420120	M20 x 120 Ø20	5	G	20	80
FSA420170	M20 x 170 Ø20	23	K	20	80
FSA420220	M20 x 220 Ø20	73	O	20	60

Window Box

CODE	SIZE	PCS	BAGS
FSA408075	M8 x 75 Ø8	10	8
FSA410090	M10 x 90 Ø10	8	8
FSA412110	M12 x 110 Ø12	6	8

Self-Service

CODE	SIZE	PCS	BAGS
FSA408075	M8 x 75 Ø8	12	7
FSA410090	M10 x 90 Ø10	8	7
FSA412110	M12 x 110 Ø12	6	5

WE ARE MANUFACTURERS



GUARANTEE
of a **LEADER**

Through bolt anchor for heavy loads

MT

STAINLESS STEEL



MTA-A2

A2 Stainless steel A2 Stainless clip

CODE	SIZE	MAX. FIXTURE THICKNESS	AXIS LETTER (LENGTH)		
FS06045	M6 x 45 D6	1	A	200	1,200
FS06060	M6 x 60 D6	2	B	200	1,200
FS06080	M6 x 80 D6	22	D	200	1,200
FS06120	M6 x 120 D6	62	G	100	600
FS06140	M6 x 140 D6	82	I	100	600
FS06160	M6 x 160 D6	102	J	100	400
FS08050	M8 x 50 D8	4	A	100	800
FS08075	M8 x 75 D8	5	C	100	600
FS08090	M8 x 90 D8	20	E	100	600
FS08115	M8 x 115 D8	45	G	100	400
FS10070	M10 x 70 Ø10	5	C	100	400
FS10090	M10 x 90 Ø10	10	D	100	400
FS10120	M10 x 120 Ø10	40	G	50	300
FS10150	M10 x 150 Ø10	70	I	50	200
FS12075	M12 x 75 Ø12	5	C	50	300
FS12090	M12 x 90 Ø12	5	D	50	200
FS12110	M12 x 110 Ø12	18	F	50	200
FS12140	M12 x 140 Ø12	48	I	50	200
FS16090	M16 x 90 Ø16	4	D	25	150
FS16145	M16 x 145 Ø16	23	I	25	100
FS16170	M16 x 170 Ø16	48	K	25	75
FS20120	M20 x 120 Ø20	5	G	20	40
FS20170	M20 x 170 Ø20	23	K	20	40
FS20220	M20 x 220 Ø20	73	O	20	40

O-ring
locking toolA2 stainless steel
Assembly required parts M8

Blister

CODE	SIZE	PCS.	BOXES
FSM08075	M8 x 75 D8	2	12
FSM10090	M10 x 90 Ø10	2	10



Window Box

CODE	SIZE	PCS.	BOXES
FSM08075	M8 x 75 D8	10	8
FSM08090	M8 x 90 D8	10	8
FSM10070	M10 x 70 Ø10	8	8
FSM10090	M10 x 90 Ø10	8	8
FSM10120	M10 x 120 Ø10	6	8
FSM12110	M12 x 110 Ø12	6	8



Self-Service

CODE	SIZE	PCS.	BOXES
FSM08075	M8 x 75 D8	12	7
FSM08090	M8 x 90 D8	12	7
FSM10070	M10 x 70 Ø10	10	6
FSM10090	M10 x 90 Ø10	8	6
FSM10120	M10 x 120 Ø10	8	6
FSM12110	M12 x 110 Ø12	6	6

**TECHNICAL DATA SHEETS
AVAILABLE ON WEBSITE**

- 1- SELECT PRODUCT
- 2- GO TO TECHNICAL DOCUMENTATION
- 3- SELECT "TECHNICAL DATA SHEET" PDF



www.fastener-inter.com

MT

Through bolt anchor for heavy loads

MTA

Zinc-plated shaft. Zinc-plated clip



SOLID



CODE	SIZE	MAX. FUTURE THICKNESS	SIZE	SIZE
FS06045	M6 x 45 Ø6	1	200	1,200
FS06055	M6 x 55 Ø6	11	200	1,200
FS06060	M6 x 60 Ø6	2	200	1,200
FS06065	M6 x 65 Ø6	7	200	1,200
FS06070	M6 x 70 Ø6	12	200	1,200
FS06080	M6 x 80 Ø6	22	200	1,200
FS06085	M6 x 85 Ø6	27	200	1,200
FS06090	M6 x 90 Ø6	32	200	1,200
FS06100	M6 x 100 Ø6	42	200	800
FS06110	M6 x 110 Ø6	52	200	800
FS06120	M6 x 120 Ø6	62	100	600
FS06130	M6 x 130 Ø6	72	100	600
FS06140	M6 x 140 Ø6	82	100	600
FS06150	M6 x 150 Ø6	92	100	600
FS06160	M6 x 160 Ø6	102	100	400
FS06170	M6 x 170 Ø6	112	100	400
FS06180	M6 x 180 Ø6	122	100	300
FS08050	M8 x 50 Ø8	4	100	800
FS08060	M8 x 60 Ø8	3	100	800
FS08065	M8 x 65 Ø8	8	100	600
FS08075	M8 x 75 Ø8	5	100	600
FS08090	M8 x 90 Ø8	20	100	600
FS08115	M8 x 115 Ø8	45	100	400
FS08120	M8 x 120 Ø8	50	100	400
FS08130	M8 x 130 Ø8	60	100	400
FS08155	M8 x 155 Ø8	85	100	200
FS10165	M10 x 65 Ø10	1	100	400
FS10070	M10 x 70 Ø10	3	100	400
FS10080	M10 x 80 Ø10	13	100	400
FS10090	M10 x 90 Ø10	10	100	400
FS10100	M10 x 100 Ø10	20	100	400
FS10120	M10 x 120 Ø10	40	50	300
FS10140	M10 x 140 Ø10	60	50	200
FS10150	M10 x 150 Ø10	70	50	200
FS10160	M10 x 160 Ø10	80	50	200
FS10170	M10 x 170 Ø10	90	50	200
FS10210	M10 x 210 Ø10	130	50	150
FS10230	M10 x 230 Ø10	150	50	100
FS12075	M12 x 75 Ø12	5	50	300
FS12080	M12 x 80 Ø12	3	50	300
FS12090	M12 x 90 Ø12	13	50	200
FS12100	M12 x 100 Ø12	8	50	200
FS12110	M12 x 110 Ø12	18	50	200



Also available with DIN 9137 washer



DIN MT
Tapping tool



A TEAM AT YOUR SERVICE



CODE	SIZE	MAX. FILLER THICKNESS		
FS12120	M12 x 120 Ø12	28	50	200
FS12140	M12 x 140 Ø12	48	50	200
FS12160	M12 x 160 Ø12	68	50	100
FS12180	M12 x 180 Ø12	88	50	150
FS12220	M12 x 220 Ø12	128	50	100
FS12250	M12 x 250 Ø12	158	25	50
FS14080	M14 x 80 Ø14	5	50	200
FS14100	M14 x 100 Ø14	5	50	100
FS14120	M14 x 120 Ø14	12	25	100
FS14145	M14 x 145 Ø14	37	25	100
FS14170	M14 x 170 Ø14	62	25	100
FS14220	M14 x 220 Ø14	112	25	75
FS14250	M14 x 250 Ø14	142	25	50
FS16090	M16 x 90 Ø16	4	25	150
FS16110	M16 x 110 Ø16	24	25	150
FS16125	M16 x 125 Ø16	3	25	100
FS16145	M16 x 145 Ø16	23	25	100
FS16170	M16 x 170 Ø16	48	25	50
FS16220	M16 x 220 Ø16	98	25	50
FS16250	M16 x 250 Ø16	128	25	50
FS16280	M16 x 280 Ø16	158	25	50
FS20120	M20 x 120 Ø20	5	20	40
FS20170	M20 x 170 Ø20	23	20	40
FS20220	M20 x 220 Ø20	73	20	40
FS20270	M20 x 270 Ø20	123	20	40
FS24180	M24 x 180 Ø24	-	10	20
FS24260	M24 x 260 Ø24	-	10	20



Blister

CODE	SIZE	PCL M	BOXES
FSAM06060	M6 x 60 Ø6	2	20
FSAM06080	M6 x 80 Ø6	2	20
FSAM08050	M8 x 50 Ø8	2	15
FSAM08075	M8 x 75 Ø8	2	15
FSAM08090	M8 x 90 Ø8	2	15
FSAM10070	M10 x 70 Ø10	2	12
FSAM10090	M10 x 90 Ø10	2	12
FSAM10120	M10 x 120 Ø10	2	12
FSAM12090	M12 x 90 Ø12	2	10
FSAM12110	M12 x 110 Ø12	2	10
FSAM12140	M12 x 140 Ø12	2	10

Window Box

CODE	SIZE	PCL M	BOXES
FSM06060	M6 x 60 Ø6	20	8
FSM08075	M8 x 75 Ø8	12	8
FSM08090	M8 x 90 Ø8	12	8
FSM10070	M10 x 70 Ø10	6	8
FSM10090	M10 x 90 Ø10	6	8
FSM10120	M10 x 120 Ø10	6	8
FSM12090	M12 x 90 Ø12	6	8
FSM12110	M12 x 110 Ø12	6	8

TECHNICAL COMMITMENT


www.fastener-inter.com

MT

Through bolt anchor for heavy loads

FS-MT

Setting tool for MT family



SOLID

A4

CODE	SIZE	kg	kg
FSMTA10	M6 - M8 - M10	5	225
FSMTA20	M12 - M14 - M16 - M20	5	225

FSA

Tie wire anchor



SOLID



CODE	SIZE	kg	kg
FSA06060	6 x 60 D6	200	2.400

NEW EUROPEAN REGULATION FOR USE OF ANCHORS IN SEISMIC AREAS

ANCHORS RANGE SEISMIC



MTP



MTP-X



MTP-A4



SL-RT



MOPURE



EPOXY
BIT 500

Anchors with seismic assessment are designed for maximum performance in installations on cracked, non-cracked and seismic materials, in line with ETA regulations.

This complete range includes chemical, mechanical and metal anchors in various sizes for installation in different base materials.

Concrete screw

FS

SOLID



CODE	SIZE	DRILL Ø	kg
FSZ75072	7,5 x 72 Ø6	T30	1,200
FSZ75092	7,5 x 92 Ø6	T30	1,200
FSZ75112	7,5 x 112 Ø6	T30	800
FSZ75132	7,5 x 132 Ø6	T30	600
FSZ75152	7,5 x 152 Ø6	T30	400
FSZ75182	7,5 x 182 Ø6	T30	300
FSZ75212	7,5 x 212 Ø6	T30	300



Self-Service

CODE	SIZE	PCL	BAGS
FSHP75072	7,5 x 72 Ø6	14	7
FSHP75092	7,5 x 92 Ø6	14	7
FSHP75112	7,5 x 112 Ø6	12	7
FSHP75132	7,5 x 132	12	7

SOLID

PVC

CODE	COLOR	INSTALLATION KEY	kg
FSBLANC		T30	2,000
FSMARRO		T30	2,000

FS TP

HP caps



SOLID



CODE	SIZE	DRILL Ø	kg
FS75072	7,5 x 72 Ø6	T25	1,200
FS75092	7,5 x 92 Ø6	T25	1,200
FS75112	7,5 x 112 Ø6	T25	800
FS75132	7,5 x 132 Ø6	T25	600

FS

Cylindrical head Tx-25 recess



Concrete screw, hexagonal washer head, Hi-Lo thread, diamond point

FSA

SOLID



CODE	SIZE	INSTALLATION KEY	DRILL Ø	kg
FS65032	6,5 x 32 Ø5	B + slotted	5	1,000
FS65045	6,5 x 45 Ø5	B + slotted	5	500
FS65057	6,5 x 57 Ø5	B + slotted	5	500
FS65070	6,5 x 70 Ø5	B + slotted	5	500
FS65080	6,5 x 80 Ø5	B + slotted	5	250
FS65100	6,5 x 100 Ø5	B + slotted	5	250
FS65125	6,5 x 125 Ø5	B + slotted	5	250

FSA

Screw



SOLID



CODE	SIZE	INSTALLATION KEY	DRILL Ø	kg
FS1665032	6,5 x 32 P16 Ø5	B + slotted	5	1,000
FS1665045	6,5 x 45 P16 Ø5	B + slotted	5	500
FS1665057	6,5 x 57 P16 Ø5	B + slotted	5	500
FS1665070	6,5 x 70 P16 Ø5	B + slotted	5	500
FS1665080	6,5 x 80 P16 Ø5	B + slotted	5	250
FS1665100	6,5 x 100 P16 Ø5	B + slotted	5	250
FS1665125	6,5 x 125 P16 Ø5	B + slotted	5	250

FSA + ARVUL

Screw with ARVUL





TH NEW ASSESSMENT

Fastener
PROFESSIONAL

GUARANTEE
of a LEADER

RANGE



CHARACTERISTIC

- ETA and R30-R120 Fire resistance assessments.
- Suitable when reduced distances between anchors or from edges are required.
- No waiting. Anchor may hold weight as soon as it is installed.
- 100% removable.
- Prior drill-hole required. Works by interference between thread and concrete.
- Use for heavy duty loads.
- Direct installation; no need for a torque wrench.
- Installation through element to be fixed.
- Use in cracked, non-cracked and reinforced concrete.
- Use for static or quasi static loads.
- Silver Ruspert coating.

BASE MATERIALS



ASSESSMENTS

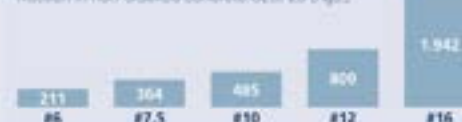


APPLICATIONS

- Structural fixings in cracked concrete and non-cracked concrete in interior conditions.
- Glazing, windows and shop windows.
- Shelving and racks.
- Indoor handrails and banisters.
- Steel structures, ducts, machinery, boilers, signs, stadium seating, façade substructures, etc.
- From wood structures to concrete structures.

RECOMMENDED LOADS

Traction in non-cracked concrete C20/25 (Kgs.)



TE
IN

FS

Concrete screw anchor with Silver Ruspert coating

FS-PAN

Panhead



SOLID



CODE	SIZE	MAX. FIXTURE THICKNESS	100	1,200
FSPAN07050	7,5 X 50 Ø6	T40	17	

FS-TRU

Truss head



SOLID



CODE	SIZE	MAX. FIXTURE THICKNESS	100	1,200
FSTRU07050	7,5 X 50 Ø6	T30	17	

Concrete screw anchor with Silver Ruspert coating

FS

SOLID



CODE	SIZE		MAX. FIXTURE THICKNESS		
FSDEX06030	6 x 30 Ø5	8	2	100	1.200
FSDEX06040	6 x 40 Ø5	8	12	100	1.200
FSDEX06050	6 x 50 Ø5	8	5	100	1.200
FSDEX06060	6 x 60 Ø5	8	15	100	1.200
FSDEX07035	7,5 x 35 Ø6	10	2	100	1.200
FSDEX07045	7,5 x 45 Ø6	10	12	100	1.200
FSDEX07060	7,5 x 60 Ø6	10	5	100	1.200
FSDEX07080	7,5 x 80 Ø6	10	25	100	600
FSDEX07100	7,5 x 100 Ø6	10	45	100	600
FSDEX10055	10 x 55 Ø8	13	5	50	600
FSDEX10065	10 x 65 Ø8	13	5	50	600
FSDEX10075	10 x 75 Ø8	13	15	50	300
FSDEX10090	10 x 90 Ø8	13	30	50	300
FSDEX10110	10 x 110 Ø8	13	50	50	300
FSDEX10130	10 x 130 Ø8	13	70	50	300
FSDEX12065	12 x 65 Ø10	15	5	50	300
FSDEX12075	12 x 75 Ø10	15	5	50	300
FSDEX12085	12 x 85 Ø10	15	15	50	300
FSDEX12100	12 x 100 Ø10	15	30	50	300
FSDEX12120	12 x 120 Ø10	15	50	50	200
FSDEX12140	12 x 140 Ø10	15	70	50	200
FSDEX16080	16 x 80 Ø14	18	5	25	150
FSDEX16115	16 x 115 Ø14	18	5	25	150
FSDEX16135	16 x 135 Ø14	18	25	25	100
FSDEX16160	16 x 160 Ø14	18	50	25	75

FS-DEX

Hexagon head. Option 1 ETA Assessed



PATENT



IS
Technical Expertise S.L.
Ingénieur T. Logez
ETA-19017
1/19
Structural Fixings in
concrete



Self-Service

CODE	SIZE	PCS	BAGS
FSTHEX07060	7,5 x 60 Ø6	16	7
FSTHEX07080	7,5 x 80 Ø6	16	7
FSTHEX10065	10 x 65 Ø8	10	7
FSTHEX10075	10 x 75 Ø8	10	7
FSTHEX10090	10 x 90 Ø8	10	7
FSTHEX10110	10 x 110 Ø8	8	7
FSTHEX12065	12 x 65 Ø10	8	6
FSTHEX12075	12 x 75 Ø10	8	6
FSTHEX12100	12 x 100 Ø10	6	6



**Critical
Edge
Distance**

SOLID



CODE	SIZE		MAX. FIXTURE THICKNESS		
FSDAV07072	7,5 x 72 Ø6	T30	17	100	1.200
FSDAV07092	7,5 x 92 Ø6	T30	37	100	600
FSDAV07112	7,5 x 112 Ø6	T30	57	100	600
FSDAV07132	7,5 x 132 Ø6	T30	77	100	600
FSDAV07152	7,5 x 152 Ø6	T30	97	100	400



Self-Service

CODE	SIZE	PCS	BAGS
FSTHAV07072	7,5 x 72 Ø6	20	7
FSTHAV07092	7,5 x 92 Ø6	16	7
FSTHAV07112	7,5 x 112 Ø6	16	7
FSTHAV07132	7,5 x 132 Ø6	12	7

FS-DAV

Countersunk head. Option 1 ETA Assessed



PATENT



IS
Technical Expertise S.L.
Ingénieur T. Logez
ETA-19017
1/19
Structural Fixings in
concrete



SL

HIGH RESISTANCE ANCHOR

Fastener
PROFESSIONAL



MAXIMUM
SAFETY

C1 SEISMIC
ASSESSMENT

EOTA
ASSESSMENT

RANGE



APPLICATIONS

- Structural fixings in indoor concrete.
- Fixing of pillars and beams.
- Fixing of profiles, railings, machinery, shelving, scaffolding and brackets.
- Applications where fire and seismic actions must be considered.

USES

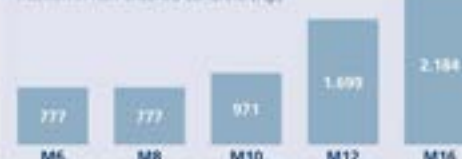


CHARACTERISTIC

- Works by friction; installation by controlled torque.
- Use for heavy duty traction and shearing loads.
- Easy installation.
- Use in cracked and non-cracked concrete.
- Use for static or quasi static loads.
- Screw and bolt versions.
- Installation through element to be fixed.
- European assessment.
- May be removed leaving clear surface (expander and thread remain inside drill-hole).

RECOMMENDED LOADS

Traction in non-cracked concrete (kg)



BASE MATERIALS



ASSESSMENTS



OPTION 1



Heavy duty anchor for high performance in concrete

FS
SOLID


CODE	SIZE	MAX. FIXTURE THICKNESS		
FSRT10070	M6 x 70 Ø10	5	50	600
FSRT10080	M6 x 80 Ø10	15	50	600
FSRT10100	M6 x 100 Ø10	35	50	300
FSRT10120	M6 x 120 Ø10	55	25	300
FSRT12080	M8 x 80 Ø12	10	50	300
FSRT12100	M8 x 100 Ø12	30	50	200
FSRT12120	M8 x 120 Ø12	50	25	200
FSRT12140	M8 x 140 Ø12	70	25	150
FSRT16100	M10 x 100 Ø16	20	25	150
FSRT16120	M10 x 120 Ø16	40	25	100
FSRT16140	M10 x 140 Ø16	60	20	60
FSRT16160	M10 x 160 Ø16	80	20	60
FSRT18120	M12 x 120 Ø18	20	20	80
FSRT18150	M12 x 150 Ø18	50	20	80
FSRT18170	M12 x 170 Ø18	70	15	45
FSRT18200	M12 x 200 Ø18	100	15	30
FSRT24140	M16 x 140 Ø24	20	10	40
FSRT24170	M16 x 170 Ø24	50	10	30
FSRT24200	M16 x 200 Ø24	80	10	20
FSRT24220	M16 x 220 Ø24	100	10	20

FS-RT

Option 1 ETA Assessed


FIRE
RESISTANCE

SEISMIC
SOLID


CODE	SIZE	MAX. FIXTURE THICKNESS		
FSVT08100	M8 x 100 Ø12	20	15	180
FSVT08120	M8 x 120 Ø12	40	15	180
FSVT10110	M10 x 110 Ø15	20	10	120
FSVT10130	M10 x 130 Ø15	40	10	120
FSVT12130	M12 x 130 Ø18	25	10	60
FSVT12160	M12 x 160 Ø18	55	10	60
FSVT16150	M16 x 150 Ø24	25	10	40
FSVT16180	M16 x 180 Ø24	55	10	30
FSVT20160	M20 x 160 Ø28	2	10	30
FSVT20190	M20 x 190 Ø28	30	8	16
FSVT20220	M20 x 220 Ø28	60	6	12
FSVT24210	M24 x 210 Ø32	30	6	12
FSVT24240	M24 x 240 Ø32	60	6	12

FS-VT

Option 7 ETA Assessed


SOLID


CODE	SIZE	MAX. FIXTURE THICKNESS		
FSVE08100	M8 x 100 Ø12	20	15	180
FSVE08120	M8 x 120 Ø12	40	15	180
FSVE10110	M10 x 110 Ø15	20	10	120
FSVE10130	M10 x 130 Ø15	40	10	60
FSVE12130	M12 x 130 Ø18	25	10	60
FSVE12160	M12 x 160 Ø18	55	10	60
FSVE16150	M16 x 150 Ø24	25	10	40
FSVE16180	M16 x 180 Ø24	55	10	30
FSVE20160	M20 x 160 Ø28	2	10	30
FSVE20190	M20 x 190 Ø28	30	8	16
FSVE20220	M20 x 220 Ø28	60	6	12
FSVE24210	M24 x 210 Ø32	30	6	12
FSVE24240	M24 x 240 Ø32	60	6	12

FS-VE

Projecting bolt



FS

Hollow ceiling anchor



HOLLOWS



CODE	SIZE	DRILL Ø	kg	kg
FSM06	M6	10	100	600
FSM08	M8	12	50	600
FSM10	M10	16	25	300



Hollow ceiling anchor

FSLA

Brass expansion anchor for light fastenings in solid materials



SOLID



CODE	SIZE	SHIELD LENGTH	kg	kg
FSLA532	5/32W x 16 Ø5	16	300	9.600
FSLAM04	M4 x 16 Ø5	16	300	9.600
FSLAM05	M5 x 18 Ø6	18	200	6.400
FSLAM06	M6 x 23 Ø8	23	200	4.800
FSLAM08	M8 x 28 Ø10	28	100	2.400
FSLAM10	M10 x 33 Ø12	34	150	1.800
FSLAM12	M12 x 38 Ø15	38	150	900



Blister



Window Box



Self-Service

CODE	SIZE	PCS	BAGS	CODE	SIZE	PCS	BAGS	CODE	SIZE	PCS	BAGS
FSTALAM06	M6 x 23 Ø8	4	20	FSTALAM06	M6 Ø8	25	8	FSTALAM06	M6 x 23 Ø8	50	8
FSTALAM08	M8 x 28 Ø10	4	20	FSTALAM08	M8 Ø10	15	8	FSTALAM08	M8 x 28 Ø10	30	7
FSTALAM10	M10 x 33 Ø12	2	15	FSTALAM10	M10 Ø12	15	8	FSTALAM10	M10 x 33 Ø12	25	5

FS-ME

Steel expansion plug



SOLID



CODE	SIZE	SHIELD LENGTH	kg	kg
FSME05030	M5 x 30 Ø5	5 x 35	100	4.500
FSME06032	M6 x 32 Ø6	6 x 40	100	2.400
FSME08038	M8 x 38 Ø8	8 x 50	100	1.200
FSME08060	M8 x 60 Ø8	8 x 70	50	600
FSME10060	M10 x 60 Ø10	10 x 70	50	600



Blister

CODE	SIZE	PCS	BAGS
FSTAME06032	M6 x 32 Ø6	4	20
FSTAME08038	M8 x 38 Ø8	4	20
FSTAME08060	M8 x 60 Ø8	4	20
FSTAME10060	M10 x 60 Ø10	4	20

FS-CU

Wedge-type, hammer-drive metal anchor



SOLID



CODE	SIZE	DRILL Ø	kg	kg
FSCU06035	6 x 35 Ø6	6	100	1.200
FSCU06035	6 x 65 Ø6	6	100	1.200

Express nail for batten fixings to concrete floors

FSA

SOLID



CODE	SIZE	MAX. FIXTURE THICKNESS		
FSA6030	6 x 30 Ø6	3	200	4.800
FSA6050	6 x 50 Ø6	20	200	2.400
FSA6060	6 x 60 Ø6	30	200	1.200
FSA6080	6 x 80 Ø6	50	200	1.200
FSA8070	8 x 70 Ø8	30	100	1.200
FSA8090	8 x 90 Ø8	50	100	600
FSA8110	8 x 110 Ø8	70	100	600
FSA8130	8 x 130 Ø8	90	100	600
FSA8150	8 x 150 Ø8	110	100	600



Blister

CODE	SIZE	PCL m	BAGS 100
FSTRA6030	6 x 30 Ø6	10	15
FSTRA6050	6 x 50 Ø6	10	15
FSTRA6060	6 x 60 Ø6	10	15
FSTRA6080	6 x 80 Ø6	10	15
FSTRA8070	8 x 70 Ø8	10	15
FSTRA8090	8 x 90 Ø8	10	15
FSTRA8110	8 x 110 Ø8	10	12
FSTRA8130	8 x 130 Ø8	8	12
FSTRA8150	8 x 150 Ø8	8	12

Metal anchor for fixing window and door frames

FSS

MULTIMATERIAL



CODE	SIZE		MAX. FIXTURE THICKNESS		
FSS6072	M6 x 72 Ø10	PZ3	40	100	600
FSS6092	M6 x 92 Ø10	PZ3	60	100	600
FSS6112	M6 x 112 Ø10	PZ3	80	100	200
FSS6132	M6 x 132 Ø10	PZ3	100	100	200
FSS6152	M6 x 152 Ø10	PZ3	120	100	400
FSS6182	M6 x 182 Ø10	PZ3	150	100	300



Screw anchor for ventilated façades

FS

STAINLESS STEEL



CODE	SIZE	
FSR08120	M8 x 120 Ø8	100
FSR08150	M8 x 150 Ø8	100
FSR10120	M10 x 120 Ø10	100
FSR10150	M10 x 150 Ø10	100
FSR10180	M10 x 180 Ø10	100

FSR
Threaded rod



STAINLESS STEEL



CODE	SIZE	
FSC08120	8 x 120 Ø8	100
FSC08150	8 x 150 Ø8	100
FSC10120	10 x 120 Ø10	100
FSC10150	10 x 150 Ø10	100
FSC10180	10 x 180 Ø10	100

FSC
Corrugated



RANGE



HE-HD

Option 7 (TA Assessed, Zinc plated)



HE-CL

Option 7 (TA Assessed, With flared tip, Zinc plated)



HE-ND

Zinc plated



HE-A4

Stainless steel A4

BASE MATERIALS



ASSESSMENTS



CHARACTERISTICS

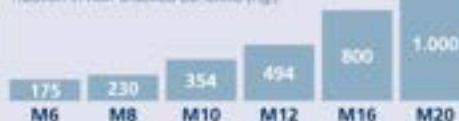
- Works by deformation.
- European assessment for interior structural applications in non-cracked concrete.
- European approval for non-structural applications in cracked and non-cracked concrete.
- Prior installation of material to be fixed.
- Bolt may be disassembled, leaving base material surface clear.
- Bolt not supplied.

APPLICATIONS

- Fixings in suspended ceilings, sprinkler systems and ventilation systems.
- Structural fixings, indoor and / or outdoor ironwork.
- Threaded rod fixings.

RECOMMENDED LOADS

Traction in non-cracked concrete (Kg.)



USES



FS

Drop in anchor with internal thread for heavy loads

FSX

Manual setting tool for HE drop in anchors



SOLID



CODE	SIZE		
FSHBM06	M6 x 120	1	10
FSHBM08	M8 x 120	1	10
FSHBM10	M10 x 120	1	10
FSHBM12	M12 x 130	1	10
FSHBM16	M16 x 145	1	10
FSHBM20	M20 x 155	1	10

Drop in anchor with internal thread for heavy loads

HE

SOLID



CODE	SIZE	LENGTH		
FSHOM06	M6 x 25 Ø8	25	100	4.000
FSHOM08	M8 x 30 Ø10	30	100	2.200
FSHOM10	M10 x 40 Ø12	40	50	1.000
FSHOM12	M12 x 50 Ø15	50	50	600
FSHOM16	M16 x 65 Ø20	65	25	250
FSHOM20	M20 x 80 Ø25	80	25	100



* Designed for fastening diamond cutting equipment



FS-HO

Option 7 ETA Assessed for structural and non-structural uses



SOLID



CODE	SIZE	LENGTH		
FSNOM06	M6 x 25 Ø8	25	100	4.000
FSNOM08	M8 x 30 Ø10	30	100	2.200
FSNOM10	M10 x 40 Ø12	40	50	1.000
FSNOM12	M12 x 50 Ø15	50	50	600
FSNOM16	M16 x 65 Ø20	65	25	250
FSNOM20	M20 x 80 Ø25	80	25	100

FS-NO

Zinc-plated



Blister



Window Box



Self-Service

CODE	SIZE	PCS	BOXES	CODE	SIZE	PCS	BOXES	CODE	SIZE	PCS	BOXES
FSHENOM06	M6 x 25 Ø8	4	20	FSNOM06	M6 Ø8	15	8	FSHENOM06	M6 x 25 Ø8	30	7
FSHENOM08	M8 x 30 Ø10	4	20	FSNOM08	M8 Ø10	15	8	FSHENOM08	M8 x 30 Ø10	30	7
FSHENOM10	M10 x 40 Ø12	2	15					FSHENOM10	M10 x 40 Ø12	16	7

SOLID



CODE	SIZE	LENGTH		
FSCLOM06	M6 x 25 Ø8	25	100	4.000
FSCLOM08	M8 x 30 Ø10	30	100	2.200
FSCLOM10	M10 x 40 Ø12	40	50	1.000
FSCLOM12	M12 x 50 Ø15	50	50	600
FSCLOM16	M16 x 65 Ø20	65	25	250
FSCLOM120*	M12 x 50 Ø16	50	50	400



* Designed for fastening diamond cutting equipment



FS-CL

Option 7 ETA Assessed for structural and non-structural uses. With flared lip.



STAINLESS STEEL



CODE	SIZE	LENGTH		
FSAAM06	M6 x 25 Ø8	25	100	4.000
FSAAM08	M8 x 30 Ø10	30	100	2.200
FSAAM10	M10 x 40 Ø12	40	50	1.000
FSAAM12	M12 x 50 Ø15	50	50	600
FSAAM16	M16 x 65 Ø20	65	25	250
FSAAM20	M20 x 80 Ø25	80	25	100

FS-A4

Stainless steel A4





FSA

Scaffolding anchoring

FSA-23

Eye diameter 23 mm



MULTIMATERIAL



CODE	SIZE	Ø PLUG	MIN. HOLE DEPTH	MIN. ANCHOR DEPTH	EYE BOLT Ø		
FSA2309	12 x 90	Ø14-Ø16	100	90	23	20	120
FSA2312	12 x 120	Ø14-Ø16	130	120	23	20	80
FSA2316	12 x 160	Ø14-Ø16	170	160	23	20	60
FSA2319	12 x 190	Ø14-Ø16	200	190	23	20	60
FSA2323	12 x 230	Ø14-Ø16	240	230	23	20	40
FSA2330	12 x 300	Ø14-Ø16	310	300	23	10	20
FSA2335	12 x 350	Ø14-Ø16	360	350	23	10	-

* Recommended plug TCS036140

FSA-51

Eye diameter 51 mm



MULTIMATERIAL



CODE	SIZE	Ø PLUG	MIN. HOLE DEPTH	MIN. ANCHOR DEPTH	EYE BOLT Ø		
FSA5114	12 x 140	Ø14-Ø16	150	140	51	20	60
FSA5116	12 x 160	Ø14-Ø16	170	160	51	20	40
FSA5120	12 x 200	Ø14-Ø16	210	200	51	20	40
FSA5124	12 x 240	Ø14-Ø16	250	240	51	20	40

* Recommended plug TCS036140

NP-SO 2

Nylon plug, 2 wings



MULTIMATERIAL



CODE	SIZE		
NPS014075	14 x 75 Ø14	20	240
NPS014100	14 x 100 Ø14	20	240

NP-SO 8

Nylon plug, 8 wings



MULTIMATERIAL



CODE	SIZE		
NPS014132	14 x 130 Ø14	20	240
NPS014160	14 x 160 Ø14	20	120
NPS016140	16 x 140 Ø16	20	120
NPS016160	16 x 160 Ø16	20	80
NPS016200	16 x 200 Ø16	20	60
NPS016240	16 x 240 Ø16	20	40

FSA-50 CT

Eye diameter 50 mm + zamak shield M30



MULTIMATERIAL



CODE	SIZE	MIN. HOLE DEPTH	EYE BOLT Ø		
FSAZ5021	M10 x 210 Ø16	120	50	10	20

FSA-TA

Cap for wallplug holes



MULTIMATERIAL



CODE	SIZE	MIN. HOLE DEPTH	MIN. ANCHOR DEPTH	DRILL Ø		
FSATA37B	13 x 37 Ø6	130	33	6	100	600
FSATA70B	13 x 70 Ø6	180	33	6	100	300

* Availability: end of stock



FASTENER **Gutter Supports**





TF

Gutter Supports

TF-MO

Module for PVC channel



METAL



CODE	SIZE	
TFMO25	25	50
TFMO33	33	50

TF-GA

Hook for PVC channel



METAL



CODE	SIZE	
TFGA25	25	50
TFGA33	33	50

TF-GR

Big tile plate



METAL



CODE	SIZE	
TFGE2530	25	50

TF-PE

Tile plate



METAL



CODE	SIZE	
TFPE2530	25	50

APPLICATION EXAMPLES





FASTENER Chemical Anchors





CHEMICAL ANCHORS

PROFESSIONAL GUARANTEE



CE marked
on ALL products



EOTA Assessment
on ALL products



Comprehensive technical
information on labelling



Wide range adapted
to any and all needs



DISPLAY BOX

OPEN AND PLACE

SELF-SERVICE PROMOTE

Cartridge chemical anchors

FS

MOPOLY

POLYESTER



CODE	SIZE	
NORMAL		
FSPOLY170	170 ml.	12
FSPOLY300	300 ml.	12
FSPOLY410	410 ml.	12

MOPOSE

POLYESTER STYRENE FREE



CODE	SIZE	
NORMAL		
FSEPOSE300	300 ml.	12
FSEPOSE410	410 ml.	12
NATURAL STONE		
FSPOSEP300	300 ml.	12
FSPOSEP410	410 ml.	12

ALSO AKIT AVAILABLE

- CONTENT:
- 1x MOPOSE CARTRIDGE 300 ml.
 - 2x NOZZLE
 - 4x PLASTIC SLEEVE 15x85
 - 4x STUD BOLT 8x110

CODE
FSEPOSE300EP



MOEPOX

EPOXY



CODE	SIZE	
BIT-500	585 ml.	12

MOEPSE

EPOXY STYRENE FREE



CODE	SIZE	
NORMAL		
FSEPSE300	300 ml.	12
FSEPSE410	410 ml.	12
LOW TEMPERATURES		
FSEPSEW300	300 ml.	12
FSEPSEW410	410 ml.	12

MOPURE

PURE EPOXY



CODE	SIZE	
FSPURE600	600 ml.	12

MOVISE

VINYLESTER STYRENE FREE



CODE	SIZE	
FSVISE300	300 ml.	12
FSVISE410	410 ml.	12



FCA

Cartridge chemical anchors

FCA-PIS

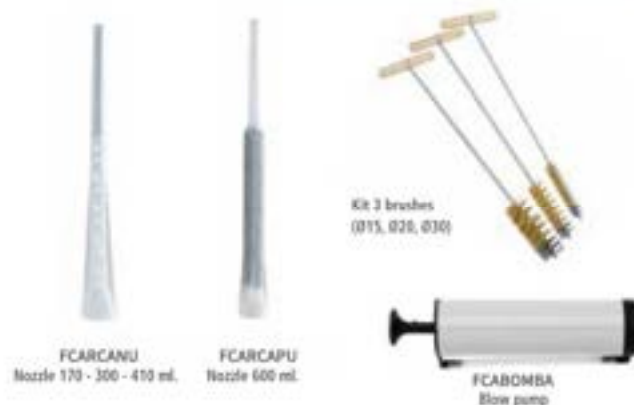
Guns



CODE	MODEL		
FCAPISTO	Manual	1	
FCAPISPR	Professional 410 ml.	1	
FCAPISSI	Silicone 300 ml.	1	
FCAPISPUR6	MOPURE600 600 ml.	1	
FCAPISNEU	Pneumatic	1	

FCA-AC

Mixer nozzles and more



CODE	MODEL		
FCABOMBA	Blow pump	1	-
FCARCANU	Nozzle 170 - 300 - 410 ml.	12	144
FCARCAPIU	Nozzle 600 ml.	12	24
FCARCEKIT	Kit brushes	1	-

FCA-TN

Plastic sleeve



CODE	SIZE		
FCATN12050	12 x 50	12	240
FCATN15085	15 x 85	12	240
FCATN15130	15 x 130	12	240
FCATN20085	20 x 85	12	240

FCA-ES

Stud bolt



CODE	SIZE		
FCAES06070	M6 x 70	12	540
FCAES08110	M8 x 110	12	288
FCAES10115	M10 x 115	12	144
FCAES12110	M12 x 110	12	144

FCA-TR

Sleeve with internal thread



CODE	SIZE		
FCATRO8	M8/12 x 80	12	540
FCATRO10	M10/14 x 80	12	288
FCATRO12	M12/16 x 80	12	288

FCA-TM

Metal sleeve



CODE	SIZE		
FCATM12100	12 x 1000	10	10
FCATM16100	16 x 1000	5	10
FCATM22100	22 x 1000	5	5

Chemical anchor capsule

FCA

CHEMICAL



CODE	SIZE	SHIELD LENGTH		
FCAQU008	8 x 80 Ø10	80	10	500
FCAQU010	10 x 90 Ø12	80	10	500
FCAQU012	12 x 110 Ø14	95	10	200
FCAQU016	16 x 125 Ø18	95	10	200
FCAQU020	20 x 170 Ø25	175	6	60
FCAQU024	24 x 210 Ø28	210	6	60
*FCAQU030	30 x 280 Ø35	265	6	30

* Non-assessed sizes

FCA-QU

Epoxy resin, quartz and a phial of hardener.
Option B ETA Assessed



**PACKAGING WITH
ANTI-BREAKAGE
PROTECTION**



GUARANTEE of a LEADER

Our desire to improve and to certify the quality of our offer in order to fully respond to the needs of our customers drives us to increasingly widen our range of certified products. Certification processes are performed by prestigious institutions which guarantee that our products meet the highest possible standards of quality and technical expertise.



FCA

Stud bolt for chemical anchor, with nut and washer

FCA-AC

Zinc-plated



FCA setting tool

CHEMICAL



CODE	SIZE		
FCAAC08110	M8 x 110	10	240
FCAAC10130	M10 x 130	10	120
FCAAC12160	M12 x 160	10	120
FCAAC16190	M16 x 190	10	40
FCAAC20260	M20 x 260	6	12
FCAAC24300	M24 x 300	6	12
FCAAC30330	M30 x 330	6	12

FCA-A2

Stainless steel A2



FCA setting tool

CHEMICAL



CODE	SIZE		
FCAA208110	M8 x 110	10	240
FCAA210130	M10 x 130	10	120
FCAA212160	M12 x 160	10	120
FCAA216190	M16 x 190	10	40
FCAA220260	M20 x 260	6	12
FCAA224300	M24 x 300	6	12
FCAA230330	M30 x 330	6	12

FCA-A4

Stainless steel A4



FCA setting tool

CHEMICAL



CODE	SIZE		
FCAA408110	M8 x 110	10	240
FCAA410130	M10 x 130	10	120
FCAA412160	M12 x 160	10	120
FCAA416190	M16 x 190	10	40
FCAA420260	M20 x 260	6	12
FCAA424300	M24 x 300	6	12
FCAA430330	M30 x 330	6	12

FPSUP

Super adhesive



CHEMICAL



CODE	SIZE		
FPSUPM350	300 ml.	1	25



NEW EXTRANET

More precise, faster and more efficient

New purchase walkway and stock consultation

Favourite product creation

List creation

Order introduction



FASTENER Drywall Screws



PL-FA

Drywall screw for plasterboard, with bugle head, coarse thread, S-point

HOLLOWS



PH



TS
Technical Expertise LL
Legislation LL Legality
BS 12166
Rating of plasterboard
Reaction to fire class A1

CODE	SIZE			
PLFA3925	3,9 x 25	PH2	1.000	12.000
PLFA3935	3,9 x 35	PH2	1.000	6.000
PLFA3945	3,9 x 45	PH2	500	3.000
PLFA3955	3,9 x 55	PH2	500	3.000
PLFA4835	4,8 x 35	PH2	1.000	6.000

PL-FR

Drywall screw for plasterboard, with bugle head, twinfastthread

HOLLOWS



PH



TS
Technical Expertise LL
Legislation LL Legality
BS 12166
Rating of plasterboard
Reaction to fire class A1

CODE	SIZE		DRILL CAPACITY		
PLFR3525	3,5 x 25	PH2	0,8 - 3	1.000	12.000
PLFR3535	3,5 x 35	PH2	0,8 - 3	1.000	6.000
PLFR3545	3,5 x 45	PH2	0,8 - 3	500	6.000

PL-FP

Drywall screw for plasterboard, with wide head

HOLLOWS



Z



TS
Technical Expertise LL
Legislation LL Legality
BS 12166
Rating of plasterboard
Reaction to fire class A1

CODE	SIZE			
PLFPZ4213	4,2 x 13	PH2	1.000	12.000
PLFPZ4216	4,2 x 16	PH2	1.000	12.000
PLFPZ4219	4,2 x 19	PH2	1.000	12.000
PLFPZ4225	4,2 x 25	PH2	1.000	6.000
PLFPZ4232	4,2 x 32	PH2	500	6.000
PLFPZ4241	4,2 x 41	PH2	500	3.000
PLFPZ4251	4,2 x 51	PH2	200	2.400

Drywall screw for plasterboard, with bugle head, twinfast thread, S-point

PL

HOLLOWS



CODE	SIZE	HEAD	DRILL CAPACITY	BOX	BOX
PHOSPHATED					
PLFA35025	3,5 x 25	PH2	< 0,8	1.000	12.000
PLFA35035	3,5 x 35	PH2	< 0,8	1.000	6.000
PLFA35045	3,5 x 45	PH2	< 0,8	500	3.000
PLFA35055	3,5 x 55	PH2	< 0,8	500	3.000
PLFA39025	3,9 x 25	PH2	< 0,8	1.000	12.000
PLFA39038	3,9 x 38	PH2	< 0,8	1.000	6.000
PLFA39048	3,9 x 48	PH2	< 0,8	500	3.000
PLFA39058	3,9 x 58	PH2	< 0,8	500	3.000
PLFA42065	4,2 x 65	PH2	< 0,8	500	3.000
ZINC-PLATED					
PLZA42075	4,2 x 75	PH2	< 0,8	500	2.000
PLZA48090	4,8 x 90	PH2	< 0,8	500	1.500
PLZA48100	4,8 x 100	PH2	< 0,8	500	1.000
PLZA48110	4,8 x 110	PH2	< 0,8	500	1.000
PLZA48120	4,8 x 120	PH2	< 0,8	500	1.000
PLZA48130	4,8 x 130	PH2	< 0,8	500	1.000

PL-FA

Black-phosphated, Phillips recess



PL-ZA

Zinc-plated, Phillips recess



13
Technical Expansion S.L.
Imperial 13, Logroño
Spain
DS 14006
Fixing of plasterboard
Resistant to the class A1

MORE PRODUCTS FOR FIXING DRYWALL



<< THE FASTEST

<<<<



FASTENER Framing Systems





COMPATIBILITY TABLE

	Code	Size (mm)	LENGTH (mm)	CHANNEL CANTILEVER ARMS						CHANNEL BRACKETS					
				FIV2718	FIV3840	FIH2718	FIH3840	FIGH2718	FIGH3840	FZZ45	FZZ90	FZZ00	FZH45	FZH90	FZH00
SLOTTED STRUT CHANNELS	FDZ201010	20 x 10 x 1	2.000												
	FDZ250808	25 x 8 x 0,8	1.000												
	FDG271812	27 x 18 x 1,25	2.000	*		*		*		*	*	*			
	FDG283018	28 x 30 x 1,8	2.000	*		*		*		*	*	*			
	FDG384020	38 x 40 x 2	2.000		*		*		*	*	*	*			
	FDG402015	40 x 20 x 1,5	2.000		*		*		*	*	*	*			
	FDI271812	27 x 18 x 1,25	2.000										*	*	*
	FDI283015	28 x 30 x 1,8	2.000										*	*	*
	FDI384020	38 x 40 x 2	2.000										*	*	*
	FDP271812	27 x 18 x 1,25	1.000	*		*				*	*	*			
	FDV251120	25 x 11 x 2	1.000							*	*	*			
	FDX412120	41 x 21 x 2,00	3.000						*	*	*	*			
	FDX412125	41 x 21 x 2,5	3.000						*	*	*	*			
	FDX414115	41 x 41 x 1,50	3.000						*	*	*	*			
	FDX414120	41 x 41 x 2,00	3.000						*	*	*	*			
	FDX414125	41 x 41 x 2,5	3.000						*	*	*	*			
CHANNEL CANTILEVER ARMS	FI2271820	27 x 18 x 1,25	200												
	FI2271830	27 x 18 x 1,25	300												
	FI2384020	38 x 40 x 2	200												
	FI2384025	38 x 40 x 2	250												
	FI2384030	38 x 40 x 2	300												
	FI2384035	38 x 40 x 2	350												
	FI2384040	38 x 40 x 2	400												
	FI2384050	38 x 40 x 2	500												
	FI2384060	38 x 40 x 2	600												
	FIX412115	41 x 21 x 2,5	150												
	FIX412130	41 x 21 x 2,5	300												
	FIX412145	41 x 21 x 2,5	450												
	FIX414115	41 x 41 x 2,5	150												
	FIX414130	41 x 41 x 2,5	300												
	FIX414145	41 x 41 x 2,5	450												
	FIX414160	41 x 41 x 2,5	600												
	FIX414175	41 x 41 x 2,5	750												

[illegible]

**FI****FI-Z**

Zinc-plated



METAL



CODE	SIZE	LENGTH	
FI2271820	27 x 18 x 1,25 x 200	200	10
FI2271830	27 x 18 x 1,25 x 300	300	10
FI2384020	38 x 40 x 2 x 200	200	10
FI2384025	38 x 40 x 2 x 250	250	10
FI2384030	38 x 40 x 2 x 300	300	10
FI2384035	38 x 40 x 2 x 350	350	10
FI2384040	38 x 40 x 2 x 400	400	10
FI2384050	38 x 40 x 2 x 500	500	10
FI2384060	38 x 40 x 2 x 600	600	10

FI-X

Indextrut



METAL



CODE	SIZE	LENGTH	
FIX412115	41 x 21 x 2,5 x 150	150	10
FIX412130	41 x 21 x 2,5 x 300	300	10
FIX412145	41 x 21 x 2,5 x 450	450	10
FIX414115	41 x 41 x 2,5 x 150	150	10
FIX414130	41 x 41 x 2,5 x 300	300	10
FIX414145	41 x 41 x 2,5 x 450	450	10
FIX414160	41 x 41 x 2,5 x 600	600	10
FIX414175	41 x 41 x 2,5 x 750	750	10

FI-V

Vertical



METAL



CODE	SIZE	SUITABLE FOR	
FI22718	M10 (27/18-28/30)	27/18 - 28/30	50
FI23840	M10 (38/40-40/20)	38/40 - 40/20	50

FI-H

Horizontal



METAL



CODE	SIZE	SUITABLE FOR	
FIH2718	M10 (27/18-28/30)	27/18 - 28/30	50
FIH3840	M10 (38/40-40/20)	38/40 - 40/20	50

FI-HX

Horizontal channels



METAL



CODE	SIZE	SUITABLE FOR	
FIHX2718	M10 (27/18-28/30)	27/18 - 28/30	10
FIHX3840	M10 (38/40-40/20-41/21-41/41)	38/40 - 40/20 - 41/21 - 41/41	10



Slotted strut channel

FD

METAL



CODE	SIZE	LENGTH	
FDZ201010	20 x 10 x 1 x 2.000	2.000	30
FDZ250008	25 x 8 x 0,80 x 1.000	1.000	30

FD-Z

Zinc-plated



METAL



CODE	SIZE	LENGTH	
FDG271812	27 x 18 x 1,25 x 2.000	2.000	10
FDG283018	28 x 30 x 1,8 x 2.000	2.000	10
FDG384020	38 x 40 x 2 x 2.000	2.000	5
FDG402015	40 x 20 x 1,50 x 2.000	2.000	10

FD-G

Hot dip galvanized



STAINLESS STEEL



CODE	SIZE	LENGTH	
FDI271812	27 x 18 x 1,25 x 2.000	2.000	10
FDI283015	28 x 30 x 1,50 x 2.000	2.000	10

FD-A2

Stainless steel A2



METAL



CODE	SIZE	LENGTH	
FDP271812	27 x 18 x 1,25	1.000	10

FD-PL

Yellow plastified



METAL



CODE	SIZE	LENGTH	
FDV251120	25 x 11 x 2 x 1.000	1.000	30

FD-PVC

PVC



METAL



CODE	SIZE	LENGTH	
FDX412120	41 x 21 x 2,0	3.000	10
FDX412125	41 x 21 x 2,50	3.000	2
FDX414115	41 x 41 x 1,50	3.000	2
FDX414120	41 x 41 x 2,0	3.000	10
FDX414125	41 x 41 x 2,50	3.000	2

FD-X

Indextrut





FZ

Channel bracket

FZ-Z

Zinc-plated

METAL



CODE	SIZE	SUITABLE FOR		
FZZ45	50 x 50 45°	25/11 - 27/18 - 28/30 - 38/40 - 40/20 - 41/21 - 41/41	100	-
FZZ90	54 x 54 90°	25/11 - 27/18 - 28/30 - 38/40 - 40/20 - 41/21 - 41/41	100	300
FZZ00	100 180°	25/11 - 27/18 - 28/30 - 38/40 - 40/20 - 41/21 - 41/41	100	-

FZ-A2

Stainless steel A2

STAINLESS STEEL



CODE	SIZE	SUITABLE FOR		
FZA45	50 x 50 45°	27/18 - 28/30 - 38/40	50	200
FZA90	54 x 54 90°	27/18 - 28/30 - 38/40	50	-
FZA00	100 180°	27/18 - 28/30 - 38/40	50	200

FL

Channel U-fitting

FL-Z

Zinc-plated

METAL



CODE	SIZE	SUITABLE FOR		
FLZ2718	27 / 18 x 81	27/18	50	300
FLZ2830	28 / 30 x 81	28/30	50	300
FLZ3840	38 / 40 x 93	38/40	50	100

FL-A2

Stainless steel A2

STAINLESS STEEL



CODE	SIZE	SUITABLE FOR		
FLA2718	27 / 18 x 81	27/18	50	300
FLA2830	28 / 30 x 81	28/30	50	200
FLA3840	38 / 40 x 93	38/40	50	100



Plastic caps for framing systems

FJ-TP

METAL

FURTHER INFORMATION

CODE	SIZE	SUITABLE FOR		
FJTP2718	27/18	27/18	100	400
FJTP2830	28/30	28/30	100	300
FJTP3840	38/40	38/40	100	300
FJTP4121	41/21	41/21	100	300
FJTP4141	41/41	41/41	100	200



Channel stud nut

FK-GU

METAL

CODE	SIZE	SUITABLE FOR		
FK230620	M6 x 20	20/10-27/18-25/08-25/11	100	800
FK230820	M8 x 20	27/18-28/30	100	400
FK230830	M8 x 30	27/18-28/30	100	600
FK340830	M8 x 30	38/40-40/20	100	600
FK341030	M10 x 30	38/40-40/20	100	400



Channel nuts

FM-GU

METAL

CODE	SIZE	SUITABLE FOR		
FMG201906	M6	20/10-25/8-25/11-27/18-28/30	100	3.000
FMG201908	M8	20/10-25/8-25/11-27/18-28/30	100	2.400
FMG271808	M8	27/18-28/30-38/40-40/20	100	1.200
FMG271810	M10	27/18-28/30-38/40-40/20	100	1.200
FMGX08	M8	Indextrut 41/41-41/21	100	800
FMGX10	M10	Indextrut 41/41-41/21	100	800



Indextrut channel spring nut

FM-MU

METAL

CODE	SIZE	SUITABLE FOR		
FMGXMU08	M08	Indextrut 41/41	100	400
FMGXMU10	M10	Indextrut 41/41	100	400





FASTENER **Wood Connectors**





FO

Perforated supports

FO-UO

U-shaped, joist bearing, hot dip galvanized perforated support with holes



WOOD



CODE	SIZE	HOLE NUM	HOLE Ø	THICKNESS	
FOU004110	40	4/1/22	9/7/4,5	2	25
FOU006100	60	4/1/22	9/7/4,5	2	25
FOU007125	70	4/2/6	13/5	2	25
FOU008120	80	4/1/30	11/7/4,5	2	25
FOU010140	100	4/1/34	11/7/4,5	2	10

FO-UR

Universal U-shaped joist bearing, adjustable width, hot dip galvanized with holes



WOOD



CODE	SIZE	HOLE NUM	HOLE Ø	THICKNESS	
FOUR30140GR	DCHA	2/20	11/4,5	2	25
FOUR30140IZ	IZDA	2/20	11/4,5	2	25

FC

Wood connectors, angled brackets

FC-EI

Angle, hot dip galvanized, perforated with equal holes



WOOD



CODE	SIZE	HOLE NUM	HOLE Ø	THICKNESS	
FCEI040402	40 x 40 x 20	6	4,5	2	100
FCEI040404	40 x 40 x 40	8	4,5	2	50
FCEI040406	40 x 40 x 60	12	4,5	2,5	50
FCEI050504	50 x 40 x 50	8	4,5	2	50
FCEI060604	60 x 40 x 50	12	4,5	2,5	50
FCEI060606	60 x 60 x 50	18	4,5	2,5	50
FCEI060608	60 x 80 x 25	20	4,5	2,5	25
FCEI070704	75 x 40 x 50	12	5	2	50
FCEI080808	80 x 80 x 25	28	4,5	2,5	25
FCEI101004	100 x 40 x 50	14	5	2	50
FCEI101010	100 x 100 x 25	46	4,5	2,5	25

FC-ED

Angle, hot dip galvanized, with holes of different sizes

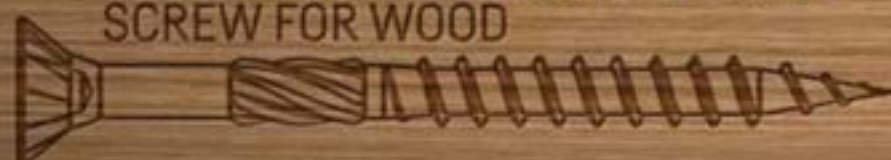


WOOD



CODE	SIZE	HOLE NUM	HOLE Ø	THICKNESS	
FCE050503	50 x 50 x 35	2/12	11/4,5	2,5	50
FCE060604	60 x 60 x 45	2/12	11/4,5	2,5	50
FCE070705	70 x 70 x 55	2/16	11/4,5	2,5	50
FCE090904	90 x 40 x 50	4/16	11/4,5	3	50
FCE090906	90 x 90 x 65	2/24	11/4,5	2,5	25
FCE101009	100 x 100 x 90	2,3/24	13/11/7	3	25

HIGH PERFORMANCE CHIPBOARD
SCREW FOR WOOD





Wood connectors, angled brackets

FC

WOOD



CODE	SIZE	HOLE NUM	HOLES Ø	THICKNESS	
FCLD040606	40 x 60 x 60	2/13	11/5	2,5	50
FCLD060806	60 x 80 x 60	3/18	11/5	2,5	50

WOOD



CODE	SIZE	HOLE NUM	HOLES Ø	THICKNESS	
FCGA100404	100 x 40 x 40	18	5	2	25

WOOD



CODE	SIZE	HOLE NUM	HOLES Ø	THICKNESS	
FCRF070705	70 x 70 x 55	2/13	22 x 11/5	2	50
FCRF070605	77 x 64 x 50	2/16	11/4,5	2,5	50
FCRF090906	90 x 90 x 65	2/24	11/4,5	2,5	25
FCRF101009	100 x 100 x 90	2/24	13/4,5	3	25
FCRF151506	150 x 150 x 65	1/3/28	32 x 11/11/5	2,5	25

WOOD



CODE	SIZE	HOLE NUM	HOLES Ø	THICKNESS	
FCRG090505	90 x 50 x 50	3/10	13/5	2,5	50
FCRG090508	90 x 50 x 80	5/16	13/5	2,5	50

WOOD



CODE	SIZE	HOLE NUM	HOLES Ø	THICKNESS	
FCAS3317DR	32 x 32 x 170	20	5	2	50
FCAS3317LZ	32 x 32 x 170	20	5	2	50

WOOD



CODE	SIZE	HOLE NUM	HOLES Ø	THICKNESS	
FCCE200404	200 x 40 x 40	18	4,5	2	10

FC-LD

Unequal-sided, hot dip galvanized

**FC-GA**

Big angle for corners, hot dip galvanized

**FC-RF**

Reinforced angle, hot dip galvanized

**FC-RG**

Adjustable angle, hot dip galvanized

**FC-AS**

Asymmetric, right or left side, hot dip galvanized

**FC-CE**

Bracket for concrete, hot dip galvanized



FC

Wood connectors, angled brackets

FC-OB

Angle with bevelled-edge holes on both sides, yellow zinc-plated



WOOD



CODE	SIZE	HOLE NUM	HOLES Ø	THICKNESS	
FCOB020214	25 x 25 x 14	4	4	1	100
FCOB030314	30 x 30 x 14	4	4,5	1,75	100
FCOB040415	40 x 40 x 15	4	4,5	1,75	100
FCOB050515	50 x 50 x 15	4	4,5	1,75	100
FCOB060618	60 x 60 x 18	4	5,5	1,75	100
FCOB070718	75 x 75 x 18	4	5,5	2	50
FCOB090920	90 x 90 x 20	6	5,5	2	50
FCOB101020	100 x 100 x 20	6	5,5	2,25	40
FCOB121222	125 x 125 x 22	6	5,5	2,5	40
FCOB151525	150 x 150 x 25	6	6	3	20

FC-CD

Large angle, unequal-sided, yellow zinc plated



WOOD



CODE	SIZE	HOLE NUM	HOLES Ø	THICKNESS	
FCCD402575	40 x 25 x 75	5	4,59	2	50

FC-CI

Large angle, equal-sided, yellow zinc plated



WOOD



CODE	SIZE	HOLE NUM	HOLES Ø	THICKNESS	
FCCI303030	30 x 30 x 30	4	4,5	2	100
FCCI404040	40 x 40 x 40	4	4,5	2	50
FCCI606060	60 x 60 x 60	8	4,5	2	50

FC-EM

Angle, yellow zinc-plated to be embedded



WOOD



CODE	SIZE	HOLE NUM	HOLES Ø	THICKNESS	
FCEM081240	80 x 120 x 40	5	5	2	20
FCEM101640	100 x 160 x 40	5	4,7	2	20

FC-ER

Adjustable angle, to be embedded, yellow zinc-plated



WOOD



CODE	SIZE	HOLE NUM	HOLES Ø	THICKNESS	
FCER302525	30 x 25 x 25	2/1	4/4 x 14	1,2	50
FCER392822	39 x 28 x 22	1/1	4/4 x 16	1	50

Wood connectors, angled brackets

FC

WOOD



CODE	SIZE	HOLE NUM	HOLES Ø	THICKNESS	
FCGE704825	70 x 40 x 25	3/2	4,5/4,5 x 11	1,5	20

FC-GE

Big, adjustable angle to be embedded, yellow zinc-plated



WOOD



CODE	SIZE	HOLE NUM	
FCLC833330	83 x 33 x 30	2	100

FC-LC

L-shaped with welded screw, for fence panels, yellow zinc-plated



WOOD



CODE	SIZE	HOLE NUM	HOLES Ø	THICKNESS	KITS X
FCMX020214	25 x 25 x 14	4	4	1,75	10
FCMX030314	30 x 30 x 14	4	4	1,75	10
FCMX040415	40 x 40 x 15	4	4,2	1,75	10
FCMX050515	50 x 50 x 15	4	4,58	1,75	10
FCMX060618	60 x 60 x 18	4	4,5	1,75	10
FCMX070718	75 x 75 x 18	4	5	2	10

FC-MX

Pack of angles for chairs, yellow zinc-plated (10 pcs)



WOOD



CODE	SIZE	HOLE NUM	HOLES Ø	THICKNESS	
FCPD107530	100 x 75 x 30	5	5	3	50
FCPD128035	120 x 80 x 35	7	7	4	25

FC-PD

Angle for posts, unequal-sided, yellow zinc-plated



WOOD



CODE	SIZE	HOLE NUM	HOLES Ø	THICKNESS	
FCRE357565	35 x 75 x 65	3/2/2	7/25 x 7/60 x 7	4	25

FC-RE

Adjustable angle, yellow zinc-plated



HIGH PERFORMANCE CHIPBOARD
SCREW FOR WOOD





FP

Wood connectors, post anchors

FP-AR

Height-adjustable, yellow zinc-plated



WOOD



CODE	SIZE	HOLE NUM	THICKNESS	REBAR Ø	
FPAR070	70 x 70 x 100 x 100	8	5	M20	1
FPAR150	150 x 150 x 100 x 100	8	5	M20	1

FP-AT

U-shaped, to be screwed directly or into already installed rods, hot dip galvanized



WOOD



CODE	SIZE	HOLE NUM	HOLES Ø	THICKNESS	
FPAT071	71 x 200 x 60 x 50	6	10,5	5	1
FPAT091	91 x 200 x 60 x 50	6	10,5	5	1
FPAT101	101 x 200 x 60 x 50	6	10,5	5	1

FP-FL

L-shaped, with welded corrugated steel bar, hot dip galvanized



WOOD



CODE	SIZE	HOLE NUM	HOLES Ø	THICKNESS	REBAR Ø	
FPFL801020	80 x 100 x 200 x 60	3	11	4,5	19	1

FP-FU

U-shaped, adjustable width, galvanized, yellow zinc-plated



WOOD



CODE	SIZE	HOLE NUM	HOLES Ø	THICKNESS	
FPFU070	71 - 131 x 110 x 70 x 100	10	10,5	5	1

FP-PD

Unequal-sided post base, hot dip galvanized



WOOD



CODE	SIZE	HOLE NUM	HOLES Ø	THICKNESS	
FPPD100	100 x 100 x 150 x 100	8	10,5	5	1

Wood connectors, post anchors

FP

WOOD



CODE	SIZE	HOLE NUM	HOLES Ø	THICKNESS	
FPFG070	70 x 90 x 70 x 80 x 90	8	8,5	5	1
FPFG100	100 x 100 x 100 x 100 x 100	8	10,5	5	1

WOOD



CODE	SIZE	HOLE NUM	HOLES Ø	THICKNESS	REBAR Ø	
FPPT071	71 x 100 x 200 x 60	6	10,5	4	19	1
FPPT091	91 x 100 x 200 x 60	6	10,5	4	19	1
FPPT101	101 x 100 x 200 x 60	6	10,5	4	19	1

WOOD



CODE	SIZE	HOLE NUM	THICKNESS	
FPUE200	66 - 131 x 110 x 200 x 70	6	5	1

WOOD



CODE	SIZE	HOLE NUM	HOLES Ø	THICKNESS	
FP5871	71 x 71 x 150	2	4 x 11	1,8	1
FP5891	91 x 91 x 150	2	4 x 11	1,8	1

WOOD



CODE	SIZE	HOLE NUM	HOLES Ø	THICKNESS	
FPEN71	71 x 71 x 750	2	4 x 11	1,8	1
FPEN91	91 x 91 x 750	2	4 x 11	1,8	1

FP-PG

Equal-sided post base, hot dip galvanized



FP-PT

U-shaped, with welded corrugated steel bar, hot dip galvanized post anchor



FP-UE

U-shaped, adjustable width, with welded corrugated steel bar, galvanized, yellow zinc-plated



FP-SB

Screw in sleeve



FP-EN

Drive in ground sleeve



Assorted wood connectors

FV

WOOD



CODE	SIZE	
FVFF050	4 x 50	200

FV-PF

Anchor nails, hot dip galvanized





ST

Wood connectors, support

ST-BR

Hot dip galvanized, flat tie



ST-EM

To be embedded, yellow zinc plated



ST-ET

T-shaped, hot dip galvanized



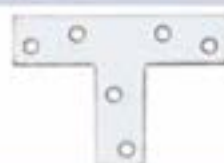
ST-OB

With bevelled-edge holes on both sides, yellow zinc-plated



ST-TT

T-shaped, hot dip galvanized



ST-UN

Perforated, hot dip galvanized



WOOD



CODE	SIZE	HOLE NUM	HOLES Ø	THICKNESS	
STBR10035	100 x 35	2/12	11/4,5	2,5	50
STBR13355	140 x 55	2/20	11/4,5	2,5	50

WOOD



CODE	SIZE	HOLE NUM	HOLES Ø	THICKNESS	
STEM18040	180 x 40 x 20	6	4,7	2	20

WOOD



CODE	SIZE	HOLE NUM	HOLES Ø	THICKNESS	
STET169845	160 x 98 x 45	4/20	11/4,5	2,5	25

WOOD



CODE	SIZE	HOLE NUM	HOLES Ø	THICKNESS	
STOB05015	50 x 15	4	4	1,75	100
STOB06015	60 x 15	4	4,5	1,75	100
STOB08015	80 x 15	4	4,5	1,75	100
STOB10015	100 x 15	4	4,5	1,75	100
STOB12020	120 x 20	4	5,5	1,75	100

WOOD



CODE	SIZE	HOLE NUM	HOLES Ø	THICKNESS	
STTT030716	35 x 70 x 16	6	3,8	2	25
STTT111430	110 x 140 x 30	6	4,5	2	25

WOOD



CODE	SIZE	HOLE NUM	HOLES Ø	THICKNESS	
STUN12038	120 x 38	10	11/4,5	2	50
STUN16038	160 x 38	12	11/4,5	2	100
STUN20060	200 x 60	2/26	11/4,5	2	25
STUN20080	200 x 80	2/38	11/4,5	2	25
STUN24060	240 x 60	2/32	11/4,5	2	25
STUN24080	240 x 80	2/46	11/4,5	2	25



ST

Wood connectors, support

ST-BR

Hot dip galvanized, flat tie



WOOD



CODE	SIZE	HOLE NUM	HOLES Ø	THICKNESS	
STBR10035	100 x 35	2/12	11/4,5	2,5	50
STBR13355	140 x 55	2/20	11/4,5	2,5	50

ST-EM

To be embedded, yellow zinc plated



WOOD



CODE	SIZE	HOLE NUM	HOLES Ø	THICKNESS	
STEM18040	180 x 40 x 20	6	4,7	2	20

ST-ET

T-shaped, hot dip galvanized



WOOD



CODE	SIZE	HOLE NUM	HOLES Ø	THICKNESS	
STET169845	160 x 98 x 45	4/20	11/4,5	2,5	25

ST-OB

With bevelled-edge holes on both sides, yellow zinc-plated



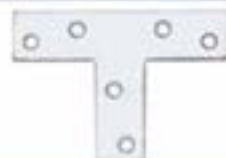
WOOD



CODE	SIZE	HOLE NUM	HOLES Ø	THICKNESS	
STOB05015	50 x 15	4	4	1,75	100
STOB06015	60 x 15	4	4,5	1,75	100
STOB08015	80 x 15	4	4,5	1,75	100
STOB10015	100 x 15	4	4,5	1,75	100
STOB12020	120 x 20	4	5,5	1,75	100

ST-TT

T-shaped, hot dip galvanized



WOOD



CODE	SIZE	HOLE NUM	HOLES Ø	THICKNESS	
STTT030716	35 x 70 x 16	6	3,8	2	25
STTT111430	110 x 140 x 30	6	4,5	2	25

ST-UN

Perforated, hot dip galvanized



WOOD



CODE	SIZE	HOLE NUM	HOLES Ø	THICKNESS	
STUN12038	120 x 38	10	11/4,5	2	50
STUN16038	160 x 38	12	11/4,5	2	100
STUN20060	200 x 60	2/26	11/4,5	2	25
STUN20080	200 x 80	2/38	11/4,5	2	25
STUN24060	240 x 60	2/32	11/4,5	2	25
STUN24080	240 x 80	2/46	11/4,5	2	25



Safety helmets with wheel ratchet

Safety helmets model JUMBO with wheel ratchet

Ref	Description	Certification	Presentation
2311	Safety helmet Jumbo with wheel ratchet	31229302 .No	units 20 Box

Available colours: White, Yellow, Blue, Green, Red, Orange, Grey, High Visibility Yellow and Silver Grey



:Standard
397 EN

Safety helmet model EXPO with wheel ratchet

Ref	Description	Certification	Presentation
2315	Safety helmet Expo with wheel ratchet	01/31200109 .No	units 20 Plastic bag

Available colours: White, Yellow, Blue, Green, Red, Orange, Grey and High Visibility Yellow



:Standard
397 EN

Safety helmets with front logo printing

Ref	Description	Certification
2002	Construction Helmet with colour logo printin 1	31215196 .No
2005	Construction Helmet with colour logo printin 1	31215196 .No
2302	Safety helmet Jumbo with colour logo printing 1	31233301 .No
2303	Safety helmet Jumbo colour logo printing 2 with	31233301 .No
2372	Safety helmet colour logo printing 1 with	31200109 .No
2373	Safety helmet model "Expo colour logo printing 2 with	31200109 .No
2306	Construction Helmet with wheel ratchet colour logo printing 1 and	31227599 .No
2307	Construction Helmet with wheel ratchet colour logo printing 2 and	31227599 .No
2312	Safety helmet Jumbo with colour logo printing 1 wheel ratchetand	31229302 .No
2313	Safety helmet Jumbo with wheel colour logo printing 2 ratchet and	31229302 .No
2376	Safety helmet Expo with wheel ratchet colour logo printing 1 and	01/31200109 .No
2377	Safety helmet Expo with wheel ratchet colour logo printing 2 and	01/31200109 .No



Safety helmets with wheel ratchet

Safety helmets model JUMBO with wheel ratchet

Ref	Description	Certification	Presentation
2311	Safety helmet Jumbo with wheel ratchet	31229302 .No	units 20 Box

Available colours: White, Yellow, Blue, Green, Red, Orange, Grey, High Visibility Yellow and Silver Grey



:Standard
397 EN

Safety helmet model EXPO with wheel ratchet

Ref	Description	Certification	Presentation
2315	Safety helmet Expo with wheel ratchet	01/31200109 .No	units 20 Plastic bag

Available colours: White, Yellow, Blue, Green, Red, Orange, Grey and High Visibility Yellow



:Standard
397 EN

Safety helmets with front logo printing

Ref	Description	Certification
2002	Construction Helmet with colour logo printin 1	31215196 .No
2005	Construction Helmet with colour logo printin 1	31215196 .No
2302	Safety helmet Jumbo with colour logo printing 1	31233301 .No
2303	Safety helmet Jumbo colour logo printing 2 with	31233301 .No
2372	Safety helmet colour logo printing 1 with	31200109 .No
2373	Safety helmet model "Expo colour logo printing 2 with	31200109 .No
2306	Construction Helmet with wheel ratchet colour logo printing 1 and	31227599 .No
2307	Construction Helmet with wheel ratchet colour logo printing 2 and	31227599 .No
2312	Safety helmet Jumbo with colour logo printing 1 wheel ratchetand	31229302 .No
2313	Safety helmet Jumbo with wheel colour logo printing 2 ratchet and	31229302 .No
2376	Safety helmet Expo with wheel ratchet colour logo printing 1 and	01/31200109 .No
2377	Safety helmet Expo with wheel ratchet colour logo printing 2 and	01/31200109 .No



Traffic safety cones

Traffic safety cones

Ref	Description	Weight (Kg)	Presentation
2015	.mm 300 Flexible PVC cone	0,5	units 10 Pack of
2517	.mm 500 Polyethylene cone Option to include white sleeve	0,5	units 10 Box
2017	.mm 500 Flexible PVC cone Option to include white sleeve	1	units 10 Box



Traffic safety cones with reflective sleeve

Ref	Description	Weight (Kg)	Presentation
2518	.mm 500 Polyethylene cone Including reflective sleeve	0,5	units 10 Box
2518	.mm 500 Flexible PVC cone Including reflective sleeve	1	units 10 Box



Traffic safety cones with reflective sleeve

Ref	Description	Weight (Kg)	Presentation
2519	Polyethylene cone mm with rubber base 750 (parts 2) .cm 22 Reflective sleeve of	5	units 10 Box
2520	.mm 750 part rubber cone 1 .cm 32 Reflective sleeve of	2,5	units 10 Box



Signalling tag cord



Traffic safety cones with reflective sleeve

Ref	Description	Weight (Kg)	Presentation
2010	Signalling tag cord with reflective	m 500 Bag	m 25 bundles of 20
2011	Signalling tag cord	m 500 Bag	m 25 bundles of 20

Safety Warning Tape

Bicolour warning tape

Ref	Description	Order	Dimensions	Presentation
4071.099	Warning tape White / Red	Plastic bag m 2500	cm 8 / microns 100	m 250 rolls x 10
4071.899	Warning tape Yellow / Black	Plastic bag m 2500	cm 8 / microns 100	m 250 rolls x 10
4072.099	Warning tape White / Red	Plastic bag m 2500	cm 8 / microns 50	m 250 rolls x 10
4072.899	Warning tape Yellow / Black	Plastic bag m 2500	cm 8 / microns 50	m 250 rolls x 10
4073.099	Warning tape White / Red	Plastic bag m 2000	cm 8 / microns 50	m 200 rolls x 10
4073.899	Warning tape Yellow / Black	Plastic bag m 2000	cm 8 / microns 50	m 200 rolls x 10



Bicolour warning tape / Portable box

Ref	Description	Order	Dimensions	Presentation
4070.899	Warning tape Yellow/Black	Plastic bag 1000m	cm 10 / microns 100	m 250 rolls x 4
4070.099	Warning tape White/Red	Plastic bag 1000m	cm 10 / microns 100	m 250 rolls x 4



Bicolour Warning tape with text

Ref	Description	Order	Dimensions	Presentation
4071.399	Warning tape Local Police	Plastic bag m 2500	cm 8 / microns 100	m 250 rolls x 10
4071.599	Warning tape Fire Fighters	Plastic bag m 2500	cm 8 / microns 100	m 250 rolls x 10
4071.799	Warning tape Civil Protection	Plastic bag m 2500	cm 8 / microns 100	m 250 rolls x 10
4071.499	Warning tape Green zones / Gardening	Plastic bag m 2500	cm 8 / microns 100	m 250 rolls x 10



Barrier safety tape

Bicolour warning tape / Portable box



Ref	Description	Order	Dimensions	Presentation
4079	Multi-signal warning tape No Entry / Men at work Risk of Falling /	Bag m 1000	microns 100 cm 8 /	rolls x 4 m 250

Warning tape

Ref	Description	Order	Dimensions	Presentation
4075	Warning tape ELECTRICITY cables	1000m Plastic bag	microns 100 cm 15 /	m 250 rolls x 4
4095	Warning tape ELECTRICITY without individual box	1000m Plastic bag	microns 100 cm 15 /	m 250 rolls x 4
4076	Warning tape WATER PIPES	1000m Plastic bag	microns 100 cm 25 /	m 250 rolls x 4
4096	Warning tape WATER PIPES	1000m Plastic bag	microns 50 cm 25 /	m 250 rolls x 4
4077	Warning tape GAS PIPES	1000m Plastic bag	microns 100 cm 25 /	m 250 rolls x 4
4097	Warning tape GAS PIPES	1000m Plastic bag	microns 50 cm 25 /	m 250 rolls x 4
4078	Warning tape TELECOM	1000m Plastic bag	microns 100 cm 15 /	m 250 rolls x 4
4098	Warning tape TELECOM	1000m Plastic bag	microns 100 cm 15 /	m 250 rolls x 4



HV orange warning tape

Ref	Description	Order	Dimensions	Presentation
4165	HV orange warning tape	m 1000 Bag	microns 100 cm 8 /	rolls x 4 m 250

Bandas de Señalización Adhesivas de PVC

Ref	Description	Order	Dimensions	Presentation
4160.099	Adhesive tape whitened	m 33 Roll	cm 5	m 33 rolls x 4
4160.899	Adhesive tape whitened	m 33 Roll	cm 5	m 33 rolls x 4



Plastic signalling link chains

White - Red

Link chains

Ref	Description	Order	Dimensions	Presentation
4500	Plastic link chain	104	(mm 22x38) ø6	m 25 Bag
4501	Plastic link chain	105	(mm 28x48) ø7,5	m 25 Bag
4502	Plastic link chain	106	(mm 40x72) ø8,5	m 25 Bag
4503	Connection chain buckle	104	(mm 22x38) ø6	Individual
4504	Connection chain buckle	105	(mm 28x48) ø7,5	Individual
4505	Connection chain buckle	106	(mm 40x72) ø8,5	Individual
4506	(Plastic conic column chain	-	cm 90 Height	Individual
4507	Rubber base column	-	cm 27 x 27	Individual



Extensible barriers



Plastic extensible barrier

Ref	Description	Presentation
4600	Yellow / Black plastic extensible barrier with reflective tape m maximum 2,50 (m closed 0,25 cm. Length 90 Height	Individual



Metallic extensible barrier

Ref	Description	Presentation
3600	Yellow / Black metallic extensible barrier with reflective bands and m 3,50 :detachable legs. Maximum extension	Individual



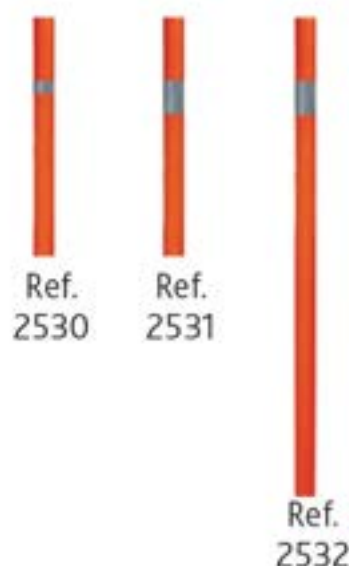
Metallic perimetral extensible barrier

Ref	Description	Presentation
3610	Metallic perimetral extensible barrier with access door m 1 x 1 :Maximum extension	Individual

Signalling panels

Protruding load marker / Precaution panel scaffolds

Ref	Description	Length	Dimensions
3050	Protruding load metallic sign	cm 50 x 50	Individual
4060	Precaution panel	cm 23 x 100	Individual
4061	Precaution scaffolding panel with reflective	cm 23 x 100	Individual



Signalling tube-pike

Signalling tube

Ref	Description	Length	Dimensions
2530	Plastic signalling tube cm reflective band 4 with	m 1	Pack of units 25
2531	Plastic signalling tube cm reflective band 10 with	m 1	Pack of units 25
2532	Plastic signalling tube cm reflective band 10 with	m 2	Pack of units 25

Signalling pike

Ref	Description	Length	Dimensions
3400	Metallic signalling pike with reflective band	cm 60	Individual



Flag

Warning flag

Ref	Description	Length
1190	Warning flag with wooden handle	Individual
1191	Warning flag with reflective bands and wooden handle	Individual

Traffic control paddles

Traffic paddle with plastic handle

Ref	Description	Presentation
4053.099	Traffic paddle STOP / GO Plastic handle	Individual
4053.999	Traffic paddle STOP / STOP Plastic handle	Individual



Traffic paddle with aluminium handle

Ref	Description	Presentation
4055.099	Traffic paddle STOP / GO Aluminium handle	Individual
4055.999	Traffic paddle STOP / STOP Aluminium handle	Individual



Reflective traffic paddle

Ref	Description	Presentation
4065.099	Reflective paddle STOP / GO Aluminium handle	Individual
4065.999	Reflective paddle STOP / STOP Aluminium handle	Individual



Flashlight-Battery



Ref	Description	Presentation
4080	Amber flashlight	Individual
4085	4R25 Battery	Individual



Traffic paddle with plastic handle

Ref	Description	Presentation
4081	Traffic paddle STOP / GO Plastic handle	Individual
4086	Traffic paddle STOP / STOP Plastic handle	Individual

Safety signs

Safety sign ATTENTION WET FLOOR

Ref	Description	Dimensions	Presentation
4057	Safety sign WET FLOOR free standing	cm 21 x 60	units 10 Box



Safety sign BLOCKED ROAD - WORKS

Ref	Description	Dimensions	Thickness	Presentation
4058	Safety sign BLOCKED ROAD - WORKS	cm 50 x 70	mm 0,7	units 10 Box



Combined safety sign WORK SITE small



Ref	Description	Dimensions	Thickness	Presentation
4059	Combined safety sign small	cm 50 x 70	mm 0,4	Individual

Combined safety sign WORK SITE small

Ref	Description	Dimensions	Thickness	Presentation
4056.001	Combined horizontal safety sign	cm 70 x 100	mm 0,7	Individual
4056.901	Combined vertical safety sign	cm 70 x 100	mm 0,7	Individual
4046.001	Combined horizontal safety sign	cm 70 x 100	mm 0,4	Individual
4046.901	Combined vertical safety sign	cm 70 x 100	mm 0,4	Individual



Handwriting practice area with horizontal lines.

Handwriting practice area with horizontal lines.

Handwriting practice lines consisting of alternating light blue and light red horizontal bands across the page.

Handwriting practice lines consisting of alternating light blue and light red horizontal bands across the page.

HEAD OFFICE

FASTENER INTERNATIONAL
Miller Road, Dallas-Texas, USA
ZIP Code: 75238
info-us@fastener-inter.com

ITALY

FASTENER INTERNATIONAL
54-74 Park Road, Milano
contact@fastener-inter.com

UNITED KINGDOM

FASTENER INTERNATIONAL
Ealing, London
wa@fastener-inter.com

GERMANY

FASTENER INTERNATIONAL
19-23 Zehntweg, Wesseling
inquiry@fastener-inter.com

UNITED ARAB EMIRATES

FASTENER INTERNATIONAL
Ajman Free Zone, Ajman
info@fastener-inter.com

CHINA

FASTENER INTERNATIONAL
West Road, Jiaxing, Zhejiang
customerservices@fastener-inter.com

CHINA

FASTENER INTERNATIONAL
Hongqi Road, Zhengzhou, Henan
reception@fastener-inter.com

SAUDI ARABIA

FASTENER INTERNATIONAL
Exit 18, Riyadh
c.s@fastener-inter.com

JORDAN

FASTENER INTERNATIONAL
Amman, Jordan
jor.fast@fastener-inter.com