SPITZNAS
CUSTOMIZED POWER SOLUTIONS





MAGNETIC CORE DRILLS



PNEUMATIC

HYDRAULIC

ATEX

CSI srl - Genova
www.csiadvice.it

SYSTEM CONCEPT



Sound absorber and water connection



Air connection for motor and magnet



Control for drilling and for switching the magnet ON/OFF



ATEX-Safety Class



Weldon tool holder



Protection cover

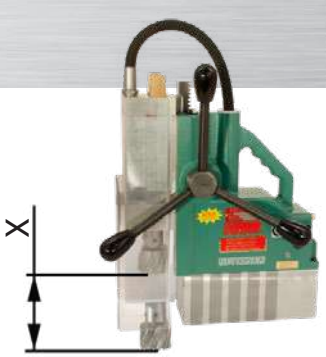


Extension rack



PNEUMATIC

Our ideal tool for drilling up to diameter 52 mm mounted on a flat ferrous surface (e.g. steel, casting, etc.)



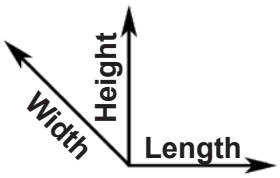
PNEUMATIC | **OPER. PRESSURE** 6 Bar | **ATEX**

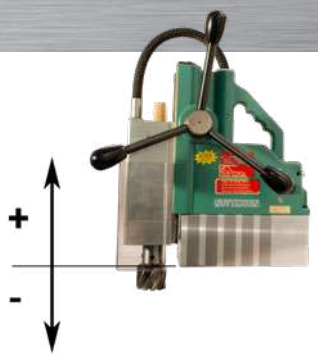
ORDER NO.	ATEX Specification	Speed (free)	Power	Tool holder	Air consumption	Stroke X	Magnetic force (at 10 mm material thickness)	Noise level LpA	Vibration level	Weight
		rpm	kW		m³/min	mm	kg	dB(A)	m/s²	kg
2 1330 0010	II2GExhIIBT6Gb	400	1.0	Weldon 19	1.8	**130**	850	79.8	<2.5	**18.8**
2 1330 0030*	II2GExhIIBT6Gb	400	1.0	Weldon 19	1.8	**260**	850	79.8	<2.5	**21.7**

Subject to technical change. *with extension rack Performance data at an operating pressure of 6 bar.

DRILLING CAPACITY/DIMENSIONS

In reference to the mounted surface of the magnet and the used drill bit (long or short type) the tool holder movement controls the drilling depth.





ORDER NO.	Drilling capacity max. drill bit diameter	Heighest position of the drill spindle +	Lowest position of the drill spindle -	Max. drill length (incl. shaft)	Height	Length	Width
	mm	mm	mm	mm	mm	mm	mm
2 1330 0010	52	**130**	**0**	**130**	**475**	375	190
2 1330 0030	52	**250**	**25**	**150**	**600**	375	190

SCOPE OF SUPPLY

Scope of supply (without drill bit):

Type 2 1330 0010 and
Type 2 1330 0030 (with extension rack)

Magnetic core drill with protection hood

Tool set



Cooling bottle

Retaining chain assembly

Carrying case

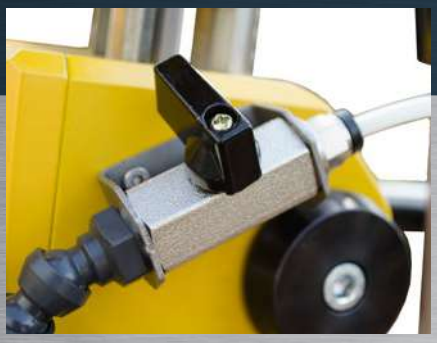


CSI srl - Genova

SYSTEM CONCEPT



Speed control
(infinitely variable)



Ball valve
for water cooling/lubrication



Control
(right and left rotation)



Quick-coupling connection
Flat-Star A250

ATEX-Safety Class

Type 2 1345 0010



Type 2 1345 0020

Tool/Adapter



Tool holder MT3



Feed adjustment



HYDRAULIC

Our powerful hydraulic magnetic core drill for drilling up to diameter 100 mm as well for underwater operation (reversible, with infinitely speed control).


Type 2 1345 0010


Type 2 1345 0020

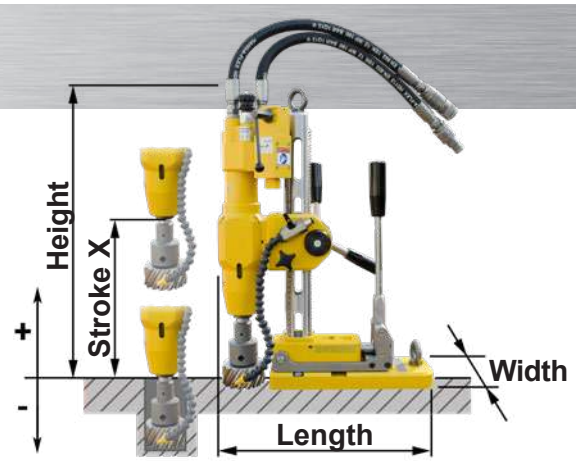
HYDRAULIC | OPER. PRESSURE 140-180 Bar | ATEX | UNDERWATER OPERATION

ORDER NO.	ATEX Specification	Speed* (free)	Power	Tool holder	Oil flow	Magnetic force (at 10 mm material thickness)	Noise level LpA	Vibration level	Weight (without hoses)
		rpm	kW		l/min	kg	dB(A)	m/s²	kg
2 1345 0010	II2GExhIIBT5Gb	40-250	2.5	MT3	20-23	**850**	79.8	<2.5	**22.5**
2 1345 0020	II2GExhIIBT5Gb	40-250	2.5	MT3	20-23	**1,500**	79.8	<2.5	**27.5**

Subject to technical cvhange. *infinitely adjustable Performance data at an operation pressure of 140 bar.

DRILLING CAPACITY/DIMENSIONS

In reference to the mounted surface of the magnet and the used drill bit (long or short type) the tool holder movement controls the drilling depth.



ORDER NO.	Drilling capacity diameter max.					Highest position of drill spindle +	Lowest position of the drill spindle -	Stroke X	Height	Length	Width
	Drill bit	Spiral drill	Tap	Reamer	Plummet						
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
2 1345 0010	12-100	31.75	M30	31	50	300	0	300	**475**	375	190
2 1345 0020	12-100	31.75	M30	31	50	300	0	300	**600**	375	190

SCOPE OF SUPPLY

Scope of supply (without drill bit):

Carrying case



Assembly tools

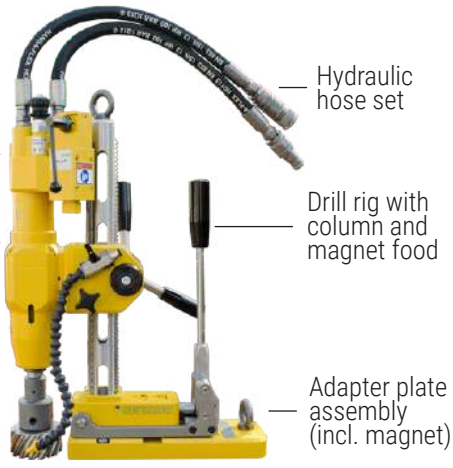
Cooling bottle assembly



Industrial adapter
- WELDON 19 mm
- WELDON 32 mm

Fixing chain

Drift key



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SYSTEM ACCESSORIES

CORE BITS HSS-PLUS (SHORT TYPE)

The fully ground core bits made of high-speed steel, with carbide coating, high wear protection, very good chip flow.



ORDER NO.	Dia. mm	A mm	Weldon mm	ORDER NO.	Dia. mm	A mm	Weldon mm	ORDER NO.	Dia. mm	A mm	Weldon mm
9 2528 0010	12	30	19	**9 2528 0330**	42	30	19	**9 2528 0630**	72	30	32
9 2528 0020	13	30	19	**9 2528 0340**	43	30	19	**9 2528 0640**	73	30	32
9 2528 0030	14	30	19	**9 2528 0350**	44	30	19	**9 2528 0650**	74	30	32
9 2528 0040	15	30	19	**9 2528 0360**	45	30	19	**9 2528 0660**	75	30	32
9 2528 0050	16	30	19	**9 2528 0370**	46	30	19	**9 2528 0670**	76	30	32
9 2528 0060	17	30	19	**9 2528 0380**	47	30	19	**9 2528 0680**	77	30	32
9 2528 0080	18	30	19	**9 2528 0390**	48	30	19	**9 2528 0690**	78	30	32
9 2528 0090	19	30	19	**9 2528 0400**	49	30	19	**9 2528 0700**	79	30	32
9 2528 0110	20	30	19	**9 2528 0410**	50	30	19	**9 2528 0710**	80	30	32
9 2528 0120	21	30	19	**9 2528 0450**	51	30	19	**9 2528 0720**	81	30	32
9 2528 0130	22	30	19	**9 2528 0430**	52	30	19	**9 2528 0730**	82	30	32
9 2528 0140	23	30	19	**9 2528 0440**	53	30	19	**9 2528 0740**	83	30	32
9 2528 0150	24	30	19	**9 2528 0450**	54	30	19	**9 2528 0750**	84	30	32
9 2528 0160	25	30	19	**9 2528 0460**	55	30	19	**9 2528 0760**	85	30	32
9 2528 0170	26	30	19	**9 2528 0470**	56	30	19	**9 2528 0770**	86	30	32
9 2528 0180	27	30	19	**9 2528 0480**	57	30	19	**9 2528 0780**	87	30	32
9 2528 0190	28	30	19	**9 2528 0490**	58	30	19	**9 2528 0790**	88	30	32
9 2528 0200	29	30	19	**9 2528 0500**	59	30	19	**9 2528 0800**	89	30	32
9 2528 0210	30	30	19	**9 2528 0510**	60	30	19	**9 2528 0810**	90	30	32
9 2528 0220	31	30	19	**9 2528 0520**	61	30	32	**9 2528 0820**	91	30	32
9 2528 0230	32	30	19	**9 2528 0530**	62	30	32	**9 2528 0830**	92	30	32
9 2528 0240	33	30	19	**9 2528 0540**	63	30	32	**9 2528 0840**	93	30	32
9 2528 0250	34	30	19	**9 2528 0550**	64	30	32	**9 2528 0850**	94	30	32
9 2528 0260	35	30	19	**9 2528 0560**	65	30	32	**9 2528 0860**	95	30	32
9 2528 0270	36	30	19	**9 2528 0570**	66	30	32	**9 2528 0870**	96	30	32
9 2528 0280	37	30	19	**9 2528 0580**	67	30	32	**9 2528 0880**	97	30	32
9 2528 0290	38	30	19	**9 2528 0590**	68	30	32	**9 2528 0890**	98	30	32
9 2528 0300	39	30	19	**9 2528 0600**	69	30	32	**9 2528 0900**	99	30	32
9 2528 0310	40	30	19	**9 2528 0610**	70	30	32	**9 2528 0910**	100	30	32
9 2528 0320	41	30	19	**9 2528 0620**	71	30	32	**More core bits on request.**			

ACCESSORIES FOR CORE BITS (SHORT TYPE)

Ejector pins and drill bit extensions compatible to our core bits short type.

ORDER NO.	Description
9 2517 0420	Ejector pin for WELDON 19 mm (short type)
9 2517 0440	Ejector pin for WELDON 32 mm (short type)
9 2517 0430	Drill bit extension 80 mm for WELDON 19 mm
9 2517 0450	Drill bit extension 80 mm for WELDON 32 mm



CORE BITS HSS-PLUS (LONG TYPE)

The fully ground core bits made of high-speed steel, with carbide coating, high wear protection, very good chip flow.





ORDER NO.	Dia. mm	A mm	Weldon mm	ORDER NO.	Dia. mm	A mm	Weldon mm	ORDER NO.	Dia. mm	A mm	Weldon mm
9 2529 0420	12	55	19	**9 2529 0310**	42	55	19	**9 2529 0630**	72	55	32
9 2529 0430	13	55	19	**9 2529 0320**	43	55	19	**9 2529 0640**	73	55	32
9 2529 0010	14	55	19	**9 2529 0330**	44	55	19	**9 2529 0650**	74	55	32
9 2529 0020	15	55	19	**9 2529 0340**	45	55	19	**9 2529 0660**	75	55	32
9 2529 0030	16	55	19	**9 2529 0350**	46	55	19	**9 2529 0670**	76	55	32
9 2529 0040	17	55	19	**9 2529 0360**	47	55	19	**9 2529 0680**	77	55	32
9 2529 0060	18	55	19	**9 2529 0370**	48	55	19	**9 2529 0690**	78	55	32
9 2529 0070	19	55	19	**9 2529 0380**	49	55	19	**9 2529 0700**	79	55	32
9 2529 0090	20	55	19	**9 2529 0390**	50	55	19	**9 2529 0710**	80	55	32
9 2529 0100	21	55	19	**9 2529 0400**	51	55	19	**9 2529 0720**	81	55	32
9 2529 0110	22	55	19	**9 2529 0410**	52	55	19	**9 2529 0730**	82	55	32
9 2529 0120	23	55	19	**9 2529 0440**	53	55	19	**9 2529 0740**	83	55	32
9 2529 0130	24	55	19	**9 2529 0450**	54	55	19	**9 2529 0750**	84	55	32
9 2529 0140	25	55	19	**9 2529 0460**	55	55	19	**9 2529 0760**	85	55	32
9 2529 0150	26	55	19	**9 2529 0470**	56	55	19	**9 2529 0770**	86	55	32
9 2529 0160	27	55	19	**9 2529 0480**	57	55	19	**9 2529 0780**	87	55	32
9 2529 0170	28	55	19	**9 2529 0490**	58	55	19	**9 2529 0790**	88	55	32
9 2529 0180	29	55	19	**9 2529 0500**	59	55	19	**9 2529 0800**	89	55	32
9 2529 0190	30	55	19	**9 2529 0510**	60	55	19	**9 2529 0810**	90	55	32
9 2529 0200	31	55	19	**9 2529 0520**	61	55	32	**9 2529 0820**	91	55	32
9 2529 0210	32	55	19	**9 2529 0530**	62	55	32	**9 2529 0830**	92	55	32
9 2529 0220	33	55	19	**9 2529 0540**	63	55	32	**9 2529 0840**	93	55	32
9 2529 0230	34	55	19	**9 2529 0550**	64	55	32	**9 2529 0850**	94	55	32
9 2529 0240	35	55	19	**9 2529 0560**	65	55	32	**9 2529 0860**	95	55	32
9 2529 0250	36	55	19	**9 2529 0570**	66	55	32	**9 2529 0870**	96	55	32
9 2529 0260	37	55	19	**9 2529 0580**	67	55	32	**9 2529 0880**	97	55	32
9 2529 0270	38	55	19	**9 2529 0590**	68	55	32	**9 2529 0890**	98	55	32
9 2529 0280	39	55	19	**9 2529 0600**	69	55	32	**9 2529 0900**	99	55	32
9 2529 0290	40	55	19	**9 2529 0610**	70	55	32	**9 2529 0910**	100	55	32
9 2529 0300	41	55	19	**9 2529 0620**	71	55	32	**More core bits on request.**			

ACCESSORIES FOR CORE BITS (LONG TYPE)

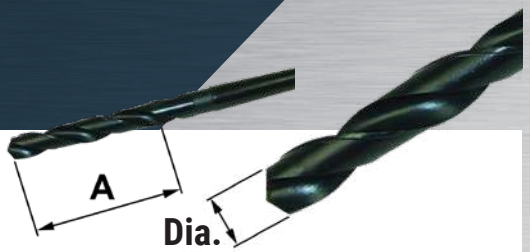
Ejector pins and drill bit extensions compatible to our core bits long type.

ORDER NO.	Description
9 2517 0410	Ejector pin for WELDON 19 mm (long type)
9 2517 0460	Ejector pin for WELDON 32 mm (long type)
9 2517 0430	Drill bit extension 80 mm for WELDON 19 mm
9 2517 0450	Drill bit extension 80 mm for WELDON 32 mm



SYSTEM ACCESSORIES

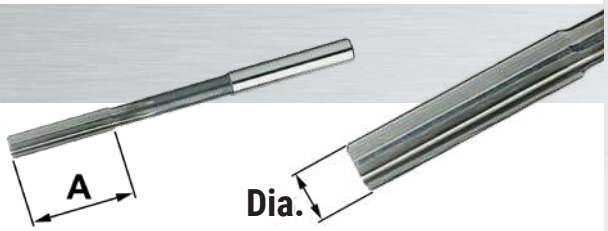
SPIRAL DRILL BITS HSS



The high-strength spiral drill bits are used for our magnetic core drills type 2 1345 for drilling of steel, aluminium, non-ferrous metal and plastics.

ORDER NO.	Dia. mm	A mm	Tool shank mm	ORDER NO.	Dia. mm	A mm	Tool shank mm	ORDER NO.	Dia. mm	A mm	Tool shank mm
9 2517 0510	10	87	MT1	**9 2517 0590**	18	130	MT2	**9 2517 0670**	26	165	MT3
9 2517 0520	11	94	MT1	**9 2517 0600**	19	135	MT2	**9 2517 0680**	27	170	MT3
9 2517 0530	12	101	MT1	**9 2517 0610**	20	140	MT2	**9 2517 0690**	28	170	MT3
9 2517 0540	13	101	MT1	**9 2517 0620**	21	145	MT2	**9 2517 0700**	29	175	MT3
9 2517 0550	14	108	MT1	**9 2517 0630**	22	150	MT2	**9 2517 0710**	30	175	MT3
9 2517 0560	15	114	MT2	**9 2517 0640**	23	155	MT2	**9 2517 0720**	31	180	MT3
9 2517 0570	16	120	MT2	**9 2517 0650**	24	160	MT3	**9 2517 0730**	31.75	185	MT3
9 2517 0580	17	125	MT2	**9 2517 0660**	25	160	MT3	**More spiral drill bits on request.**			

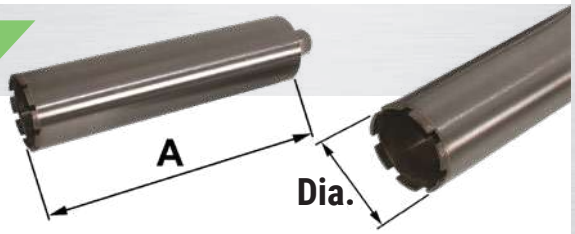
REAMERS



The reamers are used for our magnetic core drills type 2 1345 for steel.

ORDER NO.	Dia. mm	A mm	Tool shank mm	ORDER NO.	Dia. mm	A mm	Tool shank mm	ORDER NO.	Dia. mm	A mm	Tool shank mm
9 2517 0740	10	38	MT1	**9 2517 0820**	18	56	MT2	**9 2517 0900**	26	70	MT3
9 2517 0750	11	41	MT1	**9 2517 0830**	19	58	MT2	**9 2517 0910**	27	71	MT3
9 2517 0760	12	44	MT1	**9 2517 0840**	20	60	MT2	**9 2517 0920**	28	71	MT3
9 2517 0770	13	44	MT1	**9 2517 0850**	21	62	MT2	**9 2517 0930**	29	73	MT3
9 2517 0780	14	47	MT1	**9 2517 0860**	22	64	MT2	**9 2517 0940**	30	73	MT3
9 2517 0790	15	50	MT2	**9 2517 0870**	23	66	MT2	**9 2517 0950**	31	75	MT3
9 2517 0800	16	52	MT2	**9 2517 0880**	24	68	MT3				
9 2517 0810	17	54	MT2	**9 2517 0890**	25	68	MT3	**More reamers on request.**			

DRILL BITS (DIAMOND COATED FOR WET DRILLING)



The high quality drill bits are used for our magnetic core drills type 2 1345 for fast drilling with water cooling for reinforced concrete as well as masonry by using the industrial adapter type 9 2902 0400.

ORDER NO.	Dia. mm	A mm	Tool shank mm	ORDER NO.	Dia. mm	A mm	Tool shank mm	ORDER NO.	Dia. mm	A mm	Tool shank mm
9 2527 0510	20	100	1/2" male	**9 2527 0580**	82	100	1/2" male	**9 2527 0650**	50	150	1/2" male
9 2527 0520	25	100	1/2" male	**9 2527 0590**	92	100	1/2" male	**9 2527 0660**	60	150	1/2" male
9 2527 0530	30	100	1/2" male	**9 2527 0600**	102	100	1/2" male	**9 2527 0670**	72	150	1/2" male
9 2527 0540	40	100	1/2" male	**9 2527 0610**	20	150	1/2" male	**9 2527 0680**	82	150	1/2" male
9 2527 0550	50	100	1/2" male	**9 2527 0620**	25	150	1/2" male	**9 2527 0690**	92	150	1/2" male
9 2527 0560	60	100	1/2" male	**9 2527 0630**	30	150	1/2" male	**9 2527 0700**	102	150	1/2" male
9 2527 0570	72	100	1/2" male	**9 2527 0640**	40	150	1/2" male	**More drill bits on request.**			

ADAPTERS



Different type of adapters for different use of drill bits/adapters are available.







ORDER NO.	Description	For type
9 2902 0300	Industrial adapter, MT3/WELDON 19 mm	2 1345
9 2902 0310	Industrial adapter, MT3/WELDON 32 mm	2 1345
9 2902 0230	Adapter WELDON 19 mm/Drill chuck	2 1330, 2 1345
9 2902 0200	Quick-release drill chuck for dia. 1.5 up to 13 mm (for cylindrical drill bits)	2 1330, 2 1345
9 2911 0050	Drill chuck (geared) for dia. 3.0 up to 16 mm (for cylindrical drill bits)	2 1330, 2 1345
9 2902 0400	Industrial adapter MT3/R 1/2"female with internal water cooling	2 1345
9 2902 0320	Industrial adapter MT3/MT1	2 1345
9 2902 0330	Industrial adapter MT3/MT2	2 1345
9 2902 0340	Industrial adapter MT2/MT1	2 1345

DRIFT KEYS



The drift keys are used for disassembling the drill bits
as well as the the industrial adapters.





ORDER NO.	Description	For type
9 2914 0050	Drift key MT1	2 1345
9 2914 0060	Drift key MT2	2 1345
9 2914 0020	Drift key MT3	2 1345

ASSEMBLY TOOLS



The screw drivers hexagonal are used for assembling the drill bits
with WELDON-shaft.

ORDER NO.	Description	For type
9 1314 0030	Screw driver hexagonal according to DIN 911-SW 5	2 1345
9 1314 0040	Screw driver hexagonal according to DIN 911-SW 4	2 1330
9 1314 0050	Screw driver hexagonal according to DIN 911-SW 6	2 1345
9 1314 0080	Screw driver hexagonal according to DIN 911-SW 2.5	2 1330

SYSTEM CONCEPT

CLAMP FOR PIPES

The clamp permits right angle drilling of steel, cast iron, cement and plastic pipes.
Using the extension chains makes clamping on larger pipes possible.





ORDER NO.	Pos.	Description	For type
2 1330 8500	1	Clamp for pipes up to dia. 150-500 mm	2 1330, 2 1345

FIXING CHAIN

The fixing chain protects the magnetic core drill against falling down,
especially by horizontal or over head work.



ORDER NO.	Description	For type
9 4902 0120	Retaining chain assembly	2 1330, 2 1345

MAGNETIC DRILL CHIP COLLECTOR

The magnetic drill chip collector is used for safely removing chips
out of the operation area.



ORDER NO.	Description	For type
9 2917 0400	Magnetic drill chip collector	2 1330, 2 1345

COOLING BOTTLE



The cooling bottle is used for supplying the drill bit with cooling liquid. The effect of cooling and greasing the cutting edge of the drill bit will not only by reducing the wear, increasing the lifetime of the drill bit, also the chip transport out of the drilling area will be positivly influenced.

ORDER NO.	Description	For type
2 1345 9300	Cooling bottle assembly	2 1330, 2 1345

HYDRAULIC HOSE SET



The hydraulic hose set with quick-coupling is used to connect the magnetic core drill to the hydraulic circuit.

ORDER NO.	Description	For type
1 5080 9020	Hydraulic hose set (with quick-coupling Flat-Star A250)	2 1345

CARRYING CASE



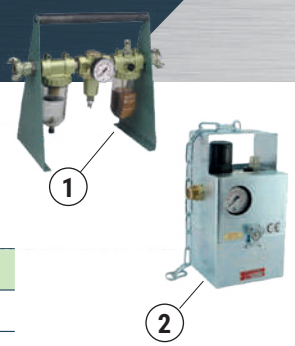
The carrying case is used for storage and transport of the magnetic core drill.

ORDER NO.	Description	For type
9 9910 0060	Carrying case	2 1330
9 9910 0080	Carrying case	2 1345

SYSTEM ACCESSORIES

SERVICE UNITS (PNEUMATIC)

Our pneumatic service units guarantees operating safety,
as well protects the machine against high wear and prevents damages.



ORDER NO.	Pos.	Description	For type
9 2406 0260	1	Service unit, portable, pressure regulator 3/4"	2 1330
9 2406 0650	2	Service unit, portable, protection housing, pressure regulator 3/4"	2 1330

SAFETY BLOCKS (HYDRAULIC)

Our hydraulic saftey blocks reduces the output pressure of the hydraulic service unit
of max. 350 bar (140 bar) to the needed operating pressure of the machine.



ORDER NO.	Description	For type
2 2406 9800	Safety block (inlet pressure up to 140 bar, max. 25 l/min)	2 1345
2 2406 9900	Safety block (inlet pressure up to 350 bar, max. 50 l/min)	2 1345

MULTI OIL

Our multi oil is used for cleaning of the machine after use
and protects the machine during longer storage.



ORDER NO.	Description	For type
9 9902 0120	Multi oil	2 1330, 2 1345

More accessories on request.

DRILLS RANGE

PISTOL DRILLS



PISTOL HAMMER DRILLS



CORNER DRILLS



HAMMER DRILLS



CORE DRILL UNITS



MAGNETIC CORE DRILLS



CSI srl

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