

**20  
25**

# CATALOGUE



**COMERCIAL 96,S.A**



## COMERCIAL 96 S.A

We offer high-quality construction machinery to make your projects more efficient and profitable.

Find hydraulic and pneumatic drills, cement injection pumps, compression equipment, drilling tools, and more, with a warranty and the best technical support.

- State-of-the-art equipment.
- Personalized advice.
- Fast and secure shipping.

# OUR BRANDS



Since 1986, driven by passion and the will to transform ideas into concrete technology, Comacchio has grown to become one of the most recognized brands worldwide in the small and medium-sized drilling sector. Comacchio's strength lies in the wide variety and customization of its machines, designed to adapt to a wide range of geotechnical, environmental, and civil engineering applications. Its portfolio includes articulated, multifunction, and modular drills, capable of working in demanding conditions with precision, power, and safety. Thanks to its modular approach and robust engineering, Comacchio is synonymous with reliable performance in the field.

Originating in the distribution of explosives and detonators for quarries and civil engineering, Ripamonti has evolved since the 1970s to import and develop high-performance drilling technologies, particularly rotary percussion systems. Thanks to decades of field experience, the company has embarked on a new era as a manufacturer of specialized drilling equipment, focused on meeting the current needs of the sector with effective and safe technical solutions. Italswiss combines experience, innovation, and adaptability for every ground stabilization challenge.



With over 25 years of experience in the sector, Italswiss is a trusted supplier of equipment for mixing, injection, and soil stabilization. Its portfolio ranges from hydraulic injection systems to technical components such as packers, anchors, and hoses. The company is characterized by its flexibility and customized approach, capable of developing non-standard solutions for complex geotechnical projects.

# OUR BRANDS

Founded in 2011, Arena S.R.L. has quickly established itself as one of the leading companies in the development of equipment and tools for geotechnical drilling and subsurface exploration. With over a decade of accumulated technical experience, it stands out for its high quality standards and focus on the continuous development of innovative solutions. Its commitment to modern geognostics and precision makes it a benchmark for those seeking reliable and technologically superior tools.



With a track record backed by years of experience in machining and technical collaborations in the field of special foundations, R-Tubi offers not only products but also complete solutions. It has a permanent stock of thousands of tons of pipes in various dimensions and the capacity to manufacture specific sizes upon request, guaranteeing fast and customized deliveries. Its approach is characterized by certified quality (ISO 9001), solid technical support, and efficient logistics, positioning it as a benchmark of reliability and innovation in geotechnical engineering.

Dai Prà specializes in soil consolidation machinery. With over a century of family tradition and international experience, it has evolved from infrastructure construction to become a leader in the design, production, and supply of high-quality equipment. They offer technical solutions tailored to each project, ensuring efficiency, innovation, and durability in each of their machines. Today, the brand is internationally recognized for the quality of its products and the trust it has built with engineers, contractors, and companies in the construction sector.

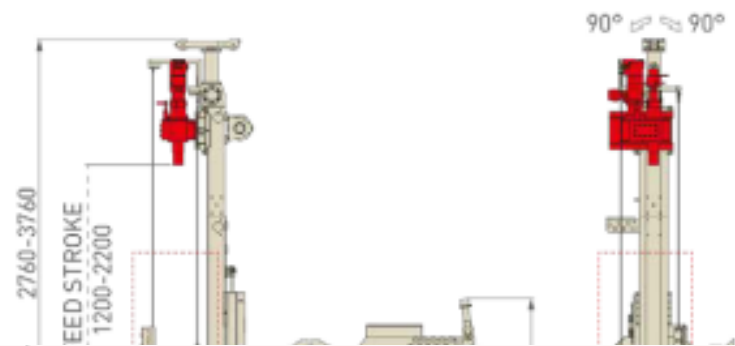
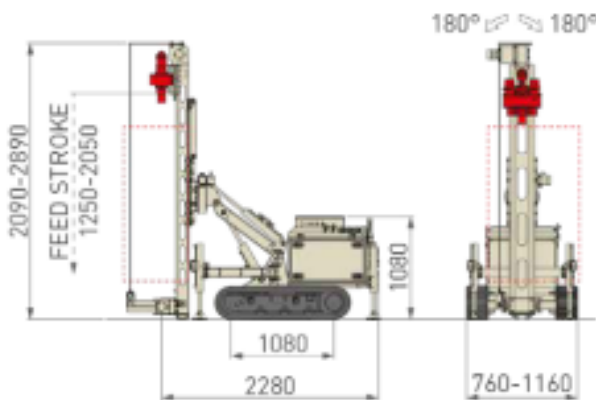




## LIMITED ACCESS RIGS WITH REMOTE POWER PACK

### MC 2D

### MC 3D



Potenza Motore Engine Power	33	44	kW	HP	33 - 55	44 - 74
Livello Emissioni Emission Level	Stage 3A/Tier 4i - Stage 5/Tier 4f (HT Line)			-	Stage 3A/Tier 4i - Stage 5/Tier 4f (HT Line)	
Motore Elettrico Electric Motor	30	40	kW	HP	30 - 55	40 - 74
Corso Mast Mast Feed Stroke	1.250 - 2.050	4' 1" - 6' 8"	mm	ft-in	1.200 - 2.200	3' 11" - 7' 2"
Forza di Spinta Feed Force	1.200	2,697	daN	lbs	2.500	5,620
Forza di Tiro Retract Force	1.200	2,697	daN	lbs	2.500	5,620
Coppia Rotary Rotary Torque Range	200 - 480	1,475 - 3,540	daNm	lb*ft	200 - 510	1,475 - 3,761
Giri Rotary Rotary Speed Range	80 - 580		rpm		80 - 580	
Serraggio Morse Clamp Range	45 - 185	1" 3/4 - 7" 5/16	mm	in	45 - 220	1" 3/4 - 8" 11/16
Peso Perforatrice Rig Weight	600 - 1.500	1,300 - 3,300	kg	lbs	2.600 - 3.100	5,700 - 6,800
Peso Centrale Power Pack Weight	1.000	2,200	kg	lbs	1.000 - 2.300	2,200 - 5,000

Compact drilling rigs weighing 3 to 8 tons, equipped with an independent hydraulic power unit (diesel or electric) and featuring a wide variety of mast positions and tilts, designed to operate in tight and difficult-to-access spaces.

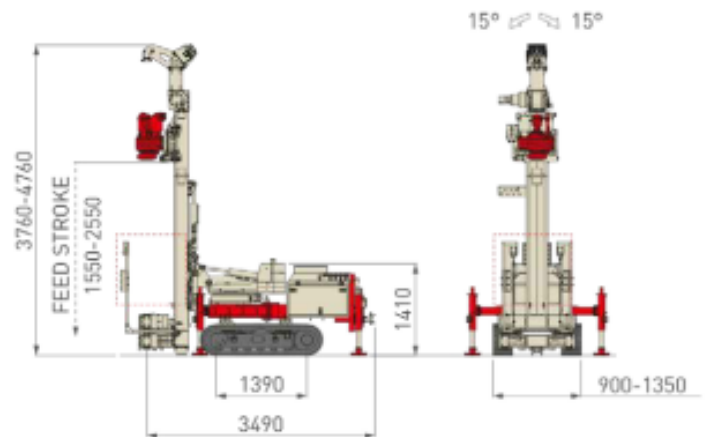
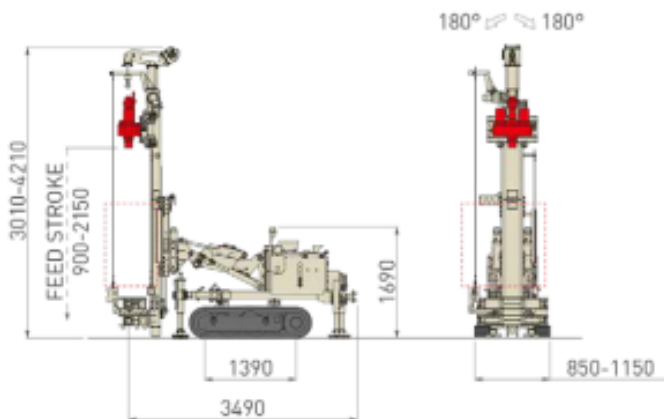


## LIMITED ACCESS RIGS WITH REMOTE POWER PACK



### MC 4D

### MC 5D



Potenza Motore Engine Power	55 - 100	74 - 134	kW	HP	86 - 100	115 - 134
Livello Emissioni Emission Level	Stage 3A/Tier 3 - Stage 5/Tier 4f (HT Line)		-			
Motore Elettrico Electric Motor	55 - 75	74 - 100	kW	HP	75	100
Corsa Mast Mast Feed Stroke	900 - 2.150	2' 11" - 7'	mm	ft-in	950 - 2.550	3' 1" - 8' 4"
Forza di Spinta Feed Force	3.500	7,868	daN	lbs	3.300 - 5.400	7,418 - 12,140
Forza di Tiro Retract Force	3.500	7,868	daN	lbs	5.400 - 6.000	12,140 - 13,488
Coppia Rotary Rotary Torque Range	450 - 1.550	3,319 - 11,432	daNm	lb*ft	450- 2.325	3,319 - 17,148
Giri Rotary Rotary Speed Range	65 - 380		rpm		80 - 380	
Serraggio Morse Clamp Range	45 - 325	1" 3/4 - 12" 13/16	mm	in	45 - 365	1" 3/4 - 14" 3/8
Peso Perforatrice Rig Weight	4.600 - 5.200	10,100 - 11,500	kg	lbs	5.300 - 5.800	11,700 - 12,800
Peso Centrale Power Pack Weight	2.000 - 2.800	4,400 - 6,100	kg	lbs	2.100 - 2.800	4,600 - 6,100

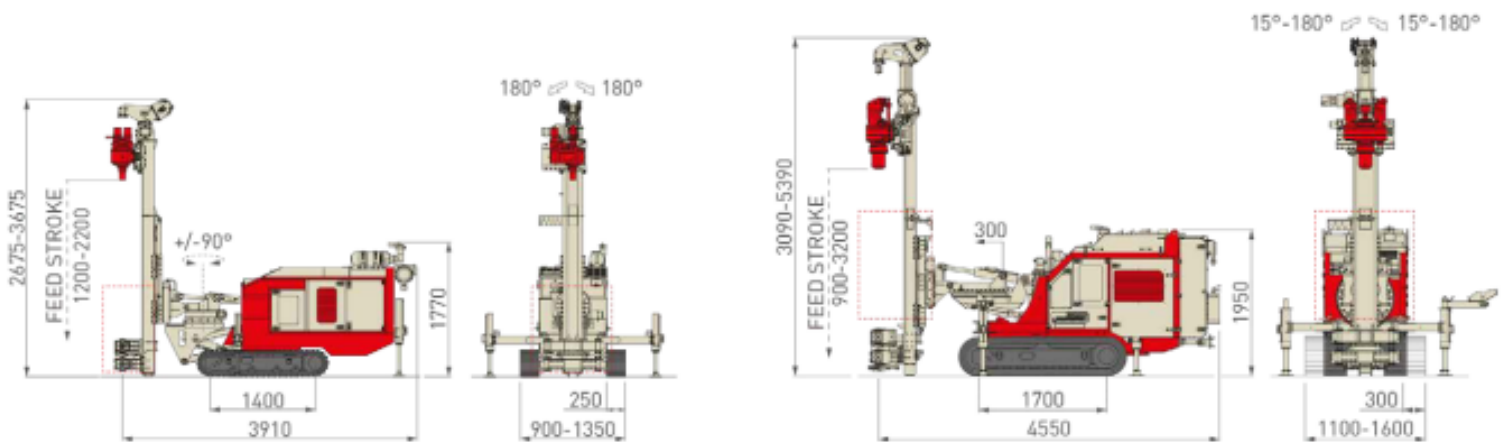
Comacchio drilling rigs with independent power units are equipped with a fully articulated kinematic system that allows for a wide variety of mast positions and inclinations. All models are suitable for the most common rotary and rotary-percussion drilling methods.



## FULLY ARTICULATED MULTIPURPOSE RIGS

MC 3

MC 6



Potenza Motore Engine Power	55	74	kW	HP	100	134
Livello Emissioni Emission Level	Stage 5/Tier 4f (HT Line)		-			
Motore Elettrico Electric Motor	-		kW	HP	75	100
Corsa Mast Mast Feed Stroke	1.200 - 2.200	3' 11" - 7' 2"	mm	ft-in	900 - 3.200	2' 11" - 10' 6"
Forza di Spinta Feed Force	2.500	5,620	daN	lbs	5.000	11,240
Forza di Tiro Retract Force	2.500	5,620	daN	lbs	5.000	11,240
Coppia Rotary Rotary Torque Range	200 - 510	1,475 - 3,761	daNm	lb*ft	450- 1.550	3,319 - 11,432
Giri Rotary Rotary Speed Range	75 - 560		rpm		80 - 380	
Serraggio Morse Clamp Range	45 - 260	1" 3/4 - 10" 1/4	mm	in	45 - 325	1" 3/4 - 12" 13/16
Peso Weight	3.500 - 4.000	7,700 - 8,800	kg	lbs	6.200 - 6.800	13,700 - 15,000

Drilling rigs range in power from 55 to 245 kW and weigh from 4 to 30 tons. These machines can cover the entire spectrum of processes related to special foundation and soil consolidation works, including micropiling, anchoring, soil nailing, and grouting.

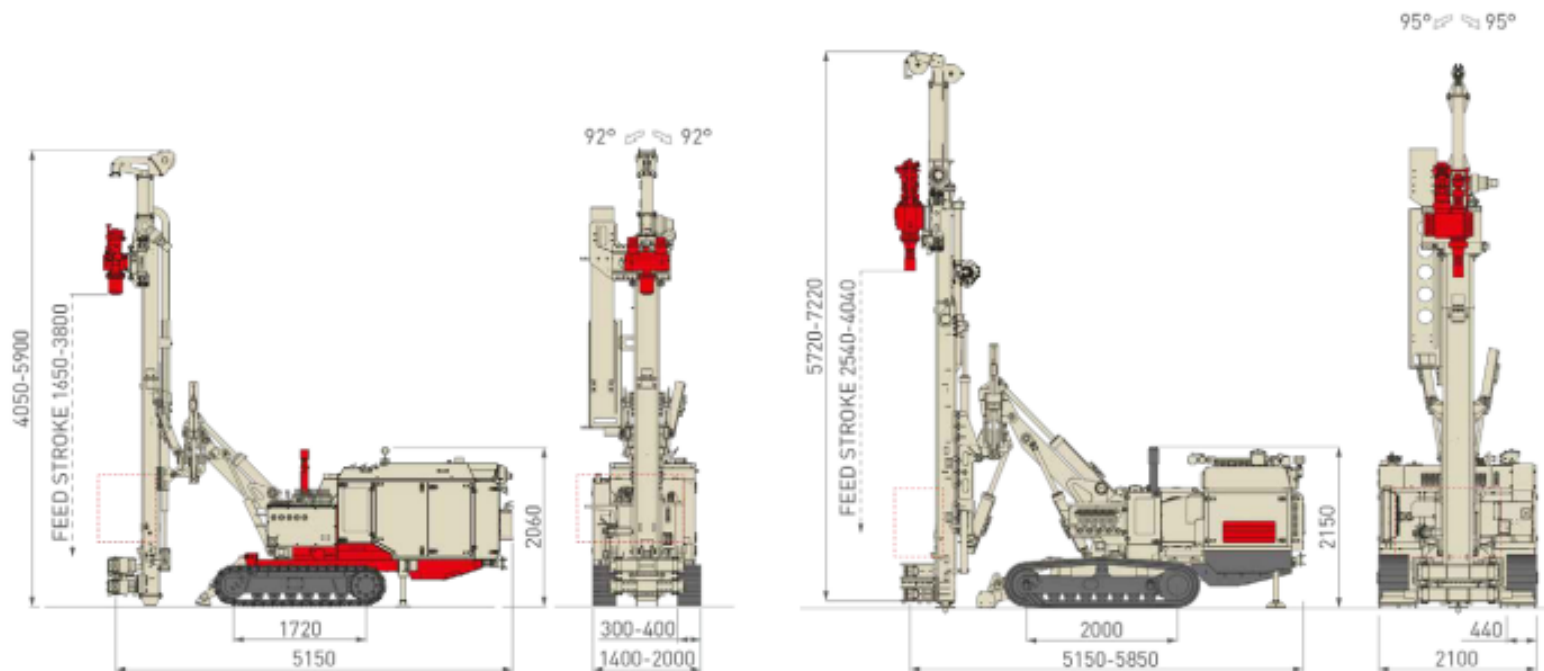


## FULLY ARTICULATED MULTIPURPOSE RIGS



### MC 8

### MC 12





Potenza Motore Engine Power	86 - 100	115 - 134	kW	HP	95 - 115	127 - 154
Livello Emissioni Emission Level	Stage 3A/Tier 3 - Stage 5/Tier 4f (HT Line)		-		Stage 3A/Tier 3 - Stage 5/Tier 4f (HT Line)	
Corsa Mast Mast Feed Stroke	1.650 - 3.800	5' 4" - 12' 5"	mm	ft-in	2.500 - 4.000	8' 2" - 13' 1"
Forza di Spinta Feed Force	5.000	11,240	daN	lbs	5.400	12,140
Forza di Tiro Retract Force	5.000	11,240	daN	lbs	5.400	12,140
Coppia Rotary Rotary Torque Range	450 - 1.550	3,319 - 11,432	daNm	lb*ft	450 - 2.325	3,319 - 17,148
Giri Rotary Rotary Speed Range	70 - 750		rpm		80 - 290	
Serraggio Morse Clamp Range	45 - 325	1" ¾ - 12" 13/16	mm	in	45 - 435	1" ¾ - 17" 1/8
Peso Weight	8.200 - 8.900	18,000 - 19,600	kg	lbs	11.500 - 13.500	25,300 - 29,700

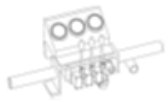














The hallmark of Comacchio drilling rigs is the wide variety of mast positions and inclinations they can achieve thanks to the articulation system. This has been refined over the years to create the current articulation system, which allows the mast to rotate 180° without having to reattach the cylinders.



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SPEEDY DRILL HYDRAULIC 2025	SDI180	SDI180 HD	SDI250
			
Description	Hydraulic aluminium mast Speedy Drill 180 with aluminium cradle	Hydraulic aluminium mast Speedy drill 180 with Heavy Duty cradle Option A: 30mm pin cradle Option B: cradle with absorbed plate	Hydraulic aluminium mast Speedy Drill 250 with reinforced steel cradle
Drill mast	Speedy drill 180	Speedy drill 180	Speedy drill 250
Pull back / down	Gear box 1500 Kg	Gear box 1500 Kg	Gear box 1500 kg.
Standard Stroke / Pricelist	1.300 mm	1.300 mm	1.300 mm
	1.800 mm	1.800 mm	1.800 mm
	2.300 mm	2.300 mm	2.300 mm
	2.800 mm	2.800 mm	2.800 mm

CODE	CONTROL PANELS			
SDC006	Manual control panel composed by three <b>Hawe</b> proportional distributors (rotation, feed, free), feed regulator, line lubricator (1 lt.), manual air valve and high-pressure filter including <b>mt.</b> 4 of connection hoses to mast			
	Kit of hydraulic hoses (10 <b>mt</b> ) to connect control panel to power pack with double pump complete with quick connections (flat type) composed by two 1/2" hoses + one 3/4" hose for return			
SDC007	Manual control panel composed by six <b>Hawe</b> proportional distributors (rotation, percussion, feed, free, free), feed regulator, line lubricator (1 lt.), manual air valve and high pressure filter including <b>mt.</b> 4 of connection hoses to mast			
	Radio remote control with proportional controls for rotation and feed with air valve opening and start of engine. 20 <b>mt.</b> safety cable			
	Extra distributor on the above panels			

The **SPEEDY DRILL** has been designed for use in any situation requiring a lightweight, easy-to-handle structure. Designed for both down-the-hole hammers and drills, it mounts quickly and easily to any structure, whether on pipes or special cradles.

ROTARY HEADS						
SDTI100W	High speed hydraulic rotary head RP100 with special HP sealings for water 200 bar (suitable for Wassara hammers)					
SDTI200/500	Hydraulic rotary head RP200/500 with 150 kgm. Torque at 150 bar threaded RD50 box					
SDTI200/800	Hydraulic rotary head RP200/800 with 200 kgm. torque at 150 bar threaded RD50 box					
SDTI500	Hydraulic rotary head RP500 with two speed, 500 kgm torque max including air swivel, threaded 2" 3/8 Api Reg					
RP280HS	Hydraulic rotary head RP280HS with 4 speed engine 2" 3/8 Api reg					
	Hydraulic rotary head TM1C13 with two speed engine 295 Kg, including head swivel and adaptor 2.3/8" AR		--	--	--	--
	Other heads on request		--	--	--	--
DRIFTER						
DF430X	Hydraulic drifter Doofoor, 430X / 530 X					
RH001 RH002	Hydraulic drifter Eurodrill RH 1X/RH 2X threaded R32, R38 or T38					
	Mounting kit for RH 1X / RH 2X					
ACCESORIES						
SDA0029	Single clamp with extra valve		(25-90)	(25-90)	(25-90)	
SDA0021			(50-152)	(50-152)	(50-152)	
SDA0086	Clamping and breaking device 25-90 with extra valves		(25-90)	(25-90)	(25-90)	
					(50-152)	(55-180 Compact)
SFA0016	Hydraulic centralizer for rods R25 or R32					
SDA0004 SDA0001 SDA0002	Centralizer with disassembly tool for DTH 2", 3", 4"					
	Reduction rings for DTH 2", 3", 4"					

The **SPEEDY DRILL** is appreciated worldwide for its ease of use and the modularity of its components. Unique in its type, it can be extended and shortened according to the specific needs of the job site.

SDA0122	Centralizer HD with disassembly tool for DTH 2", 3", 4"			
	Reduction rings for HD DTH 2", 3", 4"			
SDA0019	U type centralizer for diam.114m			
SDA0007	Integral drill steel centralizer			
SDA0105	Opening centralizer for rods R25, R32, R38			
	Reduction rings R25, R32, R38			
SDA0033	Movable plate with 360° slew to attach on scaffold			
SDA0033-2	Heavy Movable plate with 360° slew to attach on scaffold			
SDA0005	Tubular skid frame			
	Wheels with axle (48 mm. Diam.)			
SDA0138	Complete acrobatic sledge with rotation pivot (single attach) with 2 orientable wheels			
SDA0118	Tubular skid frame 5mm complete with removable rear wheels and hydraulic inclination			
SDA0006	Adjustable bar with spherical attachment for fixing mast on frame			
SDA0011	Movable plate for fixing on adjustable bar			
	Drill rod support basket to fix at tubular frame	--	--	--

Using our **SPEEDY DRILL** aluminum sled, we can supply a radio-controlled pneumatic or hydraulic drilling kit to be applied to the telescopic arm of any type of crane.

	BIRDIE 525 T	BIRDIE 517	BIRDIE 517cava
	 		
<b>Kinematics</b>	<ul style="list-style-type: none"> <li>• Articulated boom</li> <li>• Base rotation 90° left right</li> <li>• Mast tilt +/- 90°</li> <li>• Mast rotation 180° + 180°</li> </ul>	<ul style="list-style-type: none"> <li>• Boom lifting:</li> <li>• Base rotation</li> <li>• Mast rotation</li> <li>• Zoom</li> <li>• Mast inclination</li> </ul>	<ul style="list-style-type: none"> <li>• Boom lifting</li> <li>• Base rotation</li> <li>• Mast rotation</li> <li>• Zoom</li> <li>• Mast inclination</li> </ul>
<b>CRAWLER (steel or rubber available)</b>			
<b>Type</b>	Extendible truck	Extendible truck	Extendible truck
<b>Wheel base</b>	1329 mm	1329 mm	1329 mm
<b>Track width</b>	250 mm	250 mm	250 mm
<b>Total Length</b>	4200 mm	4200 mm	4200 mm
<b>Total width</b>	780-1150 mm	780-1150 mm	780-1150 mm
<b>Weight</b>	3000 -3500Kg ( depending on accessories )	2500-3500 Kg (depending on accessories)	2300-3000 Kg ( depending on accessories)
<b>Height</b>	2100 mm	2100 mm	2100 mm
<b>Speed</b>	0-2 Km/h	0-2 Km/h	0-2 Km/h
<b>HYDRAULIC CIRCUIT</b>			
<b>Controls</b>	Radio controlled, proportional, load sensing	Radio controlled, proportional, load sensing	Radio controlled, proportional, load sensing
<b>Pump</b>	Piston type, variable flow rate	Piston type, variable displacement	Piston type, variable displacement
<b>Oil flow max</b>	110 L/min	120 L/min	120 L/min
<b>Max Pressure</b>	220 bar	220 bar	220 bar
<b>Oil tank capacity</b>	120 L	120 L	120 L
<b>ENGINE</b>			
<b>Type</b>	Diesel/electric	Diesel/electric	Diesel/electric
<b>Model</b>	Kubota V1505T	Kubota V1505T	Kubota V1505T
<b>Power</b>	33 Kw / 44 HP	33 Kw / 44 HP	33 Kw / 44 HP
<b>Fuel tank capacity</b>	50 L	50 L	50 L
<b>DRILL MAST</b>			
<b>Model</b>	Speedy drill 180 HD hose reel	Speedy drill 250	Speedy drill 180
<b>Stroke</b>	1800-2300 mm	1800-2300 mm	1800-2300 mm
<b>Pull back / down</b>	1500Kg (2250Kg optional)	1500Kg (2250Kg optional)	1500Kg (2250Kg optional)
<b>PRICE LIST</b>	Stage V model	Stage V model	Stage V model
	Tier III model	Tier III model	Tier III model
<b>VARIABLE STROKE DRILL MAST</b>			
S 200 VS 1950/2650 S 200 VS 2350/3450		Stroke 750/1450 Stroke 1100/2250	

Ideal for foundations, civil engineering, and quarries, it is also a valid solution for anchors, micropiles, shallow water wells, and renovation projects. It can be equipped with a 3" or 4" down-the-hole hammer rotary head and hydraulic drills.



**Hydraulic Packers IS**

Packers



**Geopack inflatable packers**

Packers



**Self drilling anchors**

Accessories



**Marmotta VarioTronic**

Marmotta grout pump



**Marmotta Tronic**

Marmotta grout pump



**Marmotta Hydraulic**

Marmotta grout pump



**VARANO**

Grouting units



**SUPERMINIGROUT**

Grouting units



**MINIGROUT I - I PLUS**

Grouting units

A compact and low-cost grout pump, used for cement grouting in soil consolidation works, such as micropiles, self drilling anchors and geothermal. Manual or automatic grouting units, equipped with a piston pump or a screw pump. Electric or pneumatic versions available.



**DRAGO**

Anchors



**FURETTO**

Grouting units



**MecPack Mechanical Packers**

Packers



**S-35-PU**

Resins pumps



**DP-40-PU**

Resins pumps

See all  
products  
[here](#)

# ARENA

DRILLING EQUIPMENT



RH CASINGS



FRICTION WELDED RODS



LH CASINGS



HEAD COUPLINGS

See the  
entire  
catalogue  
[here](#)



S.P.A.



## HIGH STRENGTH DRILL RODS

## STEEL PIPES FOR MICROPILES



**THICKNESS AND MEASUREMENTS**  
**MANUAL**

## Self Drilling Anchors

## STD - PLUS+

## R32

### ANCHOR ROD



	Item no	Ultimate Load Avg kN	Yield Load Avg kN	Agf %	Min Internal Ø mm	Nominal Weight kg/ml
<b>STD</b>	<b>RR03204S</b>	250	210	≥ 5	19	2,83
	<b>RR03205S</b>	280	240	≥ 5	18	3,18
	<b>RR03206S</b>	340	280	≥ 5	16	3,49
	<b>RR03207S</b>	380	310	≥ 5	14	4,08
<b>PLUS+</b>	<b>RR03204P</b>	380	310	N/A	19	2,83
	<b>RR03205P</b>	430	350	N/A	18	3,18
	<b>RR03206P</b>	470	380	N/A	16	3,49
	<b>RR03207P</b>	550	450	N/A	14	4,08

Left thread - 50 rods per bundle

### COUPLING



### NUT



### LOCK NUT



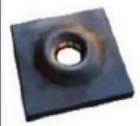
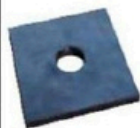
Item No.	RM032C	RM032NA	RM032N	RM032L	RD032D	..DA	RD032L	..LA	RD032C	..CA
Type	No Middlestop	Semi-Bridge	Semi-Bridge	Middlestop	Domed		Hexagonal		LockNut	
Ø mm	42	42	42	45	46		46		45	
Length mm	145	190	160	150	60		60		45	
Weight kg	0,80	0,95	0,80	1,20	0,55		0,48		0,33	

### BIT



	SOFT				MEDIUM			HARD		
Item no	RB 032076CL	RB 032051LX	RB 032051L4	RB 032076L3	RB 032051B6	RB 032076B9	RB 032051L4W	RB 032051BW6	RB 032076BW9	
Ø mm	76	51	51	76	51	76	51	51	76	
TYPE	Clay bit tempered steel	X Bit	Cross bit	EX	3 Wings bit tempered Steel	Steel Button Bit 6 ES-F	Steel Button Bit 9 ES-F	Cross bit Widia Inserts EXX	Widia Button Bit 6 ESS-F	Widia Button Bit 9 ESS-F
Strength	<40 SPT			<50 SPT				<100 Mpa		
Weight kg	0,5	0,5	0,4	1,2	0,6	1,3	0,4	0,5	1,3	

### PLATE



Item no	Type	Dimensions	Thickness	Hole	Weight
		mm	mm	mm	kg
<b>RP150 08F</b>	Flat	150 x 150	8	38	1,4
<b>RP150 10F</b>	Flat	150 x 150	10	38	1,7
<b>RP200 08F</b>	Flat	200 x 200	8	38	2,5
<b>RP200 10F</b>	Flat	200 x 200	10	38	3,1
<b>RP200 12F</b>	Flat	200 x 200	12	38	3,7
<b>RP200 20F</b>	Flat	200 x 200	20	38	6,2
<b>RP150 08D</b>	Domed	150 x 150	8	38	1,4
<b>RP200 08D</b>	Domed	200 x 200	8	38	2,5
<b>RP200 10D</b>	Domed	200 x 200	10	38	3,1
<b>RP200 12D</b>	Domed	200 x 200	12	38	3,7

### Self Drilling Anchors

### STD - PLUS+

R32

ACCESSORIES				
	Item No.	RG032	RC032070	RA038032B
	Type	Eyenut	Centralizer	Bit Reduction
	Diam. mm	46	72	
	Weight Kg	0,8	0,2	0,1

### Self Drilling Anchors

### STD - PLUS+

R38

#### ANCHOR ROD



	Item no	Ultimate Load Avg kN	Yield Load Avg kN	Agit %	Min Internal Ø mm	Nominal Weight kg/m
STD	RR03805S	360	300	≥ 5	25	4,00
	RR03807S	470	400	≥ 5	21	5,02
	RR03808S	530	440	≥ 5	18	5,81
PLUS+	RR03805P	540	435	N/A	25	4,00
	RR03807P	680	550	N/A	21	5,03
	RR03808P	780	635	N/A	18	5,81

Left thread - 50 rods per bundle

	COUPLING				NUT				LOCK NUT	
Item No.	RM038C	RM038NA	RM038N	RM038L	RD038D	..DA	RD038L	..LA	RD038C	..CA
Type	No Middlestop	Semi-Bridge	Semi-Bridge	Middlestop	Domed		Hexagonal		LockNut	
Ø mm	50	50	50	60	55		60		55	
Longht mm	180	180-220	195	180	60		70		50	
Weight kg	1,20	1,20	1,30	2,50	0,70		1,10		0,50	

BIT	SOFT				MEDIUM				HARD	
	RB	RB	RB	RB	RB	RB	RB	RB	RB	RB
Item no	038076CL	038090CL	038110CL	038130CL	038076L4	038090L3	038076B9	038115BD1	038076BW9	038090BW9
Ø mm	76	90	110	130	76	90	76	115	76	90
TYPE	Clay bit - tempered steel				4 Wings bit temp. steel	3 Wings bit temp. steel	Steel Button Bit ES-F	Steel Button Bit Drop Center - ES -	Widia Button Bit ESS-F	
Strength	<40 SPT				<50 SPT				<100 Mpa	
Weight kg	0,6	0,8	1,3	1,8	0,9	1,0	1,2	2,3	1,4	2,3
Reduction	Yes									

PLATE	Item no	Type	Dims	Thickness	Hole	Weight
			mm	mm	mm	kg
	RP200 10F	Flat	200 x 200	10	44	3,1
	RP200 12F	Flat	200 x 200	12	44	3,7
	RP200 20F	Flat	200 x 200	20	44	6,2
	RP250 20F	Flat	250 x 250	20	44	9,8
	RP250 25F	Flat	250 x 250	25	44	12,3
	RP200 10D	Domed	200 x 200	10	44	3,1
RP200 12D	Domed	200 x 200	12	44	3,7	

### Self Drilling Anchors

### STD - PLUS+

### R38

ACCESSORIES						
	Item No.	<b>RG038</b>	<b>RC 038 090</b>	<b>RA 051 038 B</b>	<b>RA 051 032 B</b>	
	Type	Eye Nut	Centralizer	Bit Reduction	Bit Reduction	
	Diam. mm	66	90			
	Weight Kg	1,0	0,4	0,2	0,2	

ACCESSORIES JETTING											
	Item No.	<b>RW038</b>	<b>RB038140A3J</b>	<b>RU016J</b>	<b>RU026J</b>	<b>RW026J</b>	<b>Bevelling</b>				
	Type	Aluminum washer to be inserted in the coupling and in the bit	3 Wings bit with holes for Jetting	Nozzle to be inserted in the bit (2 for each bit)	Nozzle to be inserted in the bit (2 for each bit)	Copper washer to be inserted in the bit (2 for each bit)	2 for each Bars				
	Diam. mm	35	140	2	3						
	Weight Kg	0,1	3,2	0,2	0,2	0,0					

### Self Drilling Anchors

### STD - PLUS+

### R51

#### ANCHOR ROD



Item no	Ultimate Load Avg kN	Yield Load Avg kN	Agf %	Min Internal Ø mm	Nominal Weight kg/mt
<b>RR05107S</b>	660	550	≥ 5	33	7,30
<b>RR05109S</b>	810	680	≥ 5	28	8,87
<b>PLUS+ RR05107P</b>	980	800	N/A	33	7,30
<b>PLUS+ RR05109P</b>	1250	1010	N/A	28	9,30

Left thread - 50 rods per bundle

COUPLING					NUT				LOCK NUT			
Item No.	<b>RM051C</b>	<b>RM051NA</b>	<b>RM051N</b>	<b>RM051L</b>	<b>RD051D</b>	<b>..DA</b>	<b>RD051N</b>	<b>..NA</b>	<b>RD051L</b>	<b>..LA</b>	<b>RD051C</b>	<b>..CA</b>
Type	no Middlestop	Semi-Bridge	Semi-Bridge	Middlestop	Domed		Casting		Hexagonal		LockNut	
Ø mm	70	65	70	70	74		75		75		75	
Length mm	180	200-220	210	210	70		85		95		35	
Weight kg	2,70	2,20	3,10	3,20	1,70		1,90		2,00		0,70	


BIT	SOFT				MEDIUM				HARD			
	Item no	<b>RB 051119CL</b>	<b>RB 051130CL</b>	<b>RB 051150CL</b>	<b>RB 051175CL</b>	<b>RB 051090L3</b>	<b>RB 051110L3</b>	<b>RB 051115BD17</b>	<b>RB 051100B13</b>	<b>RB 051090BW9</b>	<b>RB 051115BW15</b>	<b>RB 051090BWH11</b>
Ø mm	110	130	150	175	90	110	115	100	90	115	90	
TYPE	Clay bit tempered steel				3 Wings bit temp. Steel				Steel Button Bit Drop Center - ES-D	Steel Button Bit ESF	Widia Button Bit 9/15 - ESS-F	
Strength	<40 SPT				<50 SPT				<100 Mpa			
Weight kg	1,5	1,6	2,6	4,5	1,3	1,5	2,1	1,9	2,0	2,4	2,2	


## Self Drilling Anchors

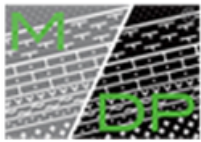
## STD - PLUS+

## R51

PLATE	Item no	Type	Dims	Thickness	Hole	Weight
			mm	mm	mm	kg
	<b>RP200 20F</b>	Flat	200 x 200	20	58	6,3
	<b>RP200 30F</b>	Flat	200 x 200	30	58	9,4
	<b>RP250 20F</b>	Flat	250 x 250	20	58	9,8
	<b>RP250 25F</b>	Flat	250 x 250	25	58	12,3
	<b>RP300 20F</b>	Flat	300 x 300	20	58	14,1
	<b>RP300 30F</b>	Flat	300 x 300	30	58	21,2
	<b>RP250 20M</b>	With coupling	250 x 250	20	on request	11,3
		coupling Ø 72 mm - length 85 mm				

ACCESS.	Item no	Type	Ø	Weight
			mm	kg
	<b>RC 051 100</b>	Centralizer	100	0,8

ACCESSORIES JETTING							Bevelling	
	Item No.	<b>RW051</b>	<b>RB051150A3J</b>	<b>RU018J</b>	<b>RU028J</b>	<b>RW028J</b>		
	Type	Aluminum washer to be inserted in the coupling and in the bit	3 Wings bit with holes for Jetting	Nozzle to be inserted in the bit (2 for each bit)	Nozzle to be inserted in the bit (2 for each bit)	Copper washer to be inserted in the bit (2 for each bit)		2 for each Bars
	Diam. mm	35	150	1,8	2,8	2,8		
Weight Kg	0,1	3,4	0,2	0,2	0,0			



**DAI PRÀ**  
FORCE ABOVE ALL



### **MDP DE/OL 80 ou 80S - T150 - AG500**

**ENERGY:** Electrical

**POWER:** 10.6 KW

**TURBO MIXER:** 150lts

**MAX DEBIT:** 60 lt/min

**MAX ADJUSTABLE PRESSURE:** 110 BAR

**DEBIT DE FABRICATION:** (max theoretical) 3 m3/h



### **MDP DE/AR 80 - T150 - AG500**

**ENERGY:** Pneumatics

**POWER:** 13 HP

**TURBO MIXER:** 150 lts

**MAX DEBIT:** 60 lts/min

**MAX ADJUSTABLE PRESSURE:** 100 BAR

**DÉBIT DE FABRICATION:** (max theoretical) 3 m3/h



### **MDP DE/OL 100 - T300 - AG750**

**ENERGY:** Electrical

**POWER:** 16.2 KW

**TURBO MIXER:** 300 litres

**MAX RÉGLABLE DÉBIT:** 100 l/min

**MAX ADJUSTABLE PRESSURE:** 110 BAR

**DÉBIT DE FABRICATION:** (max theoretical) 5 m3/h

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