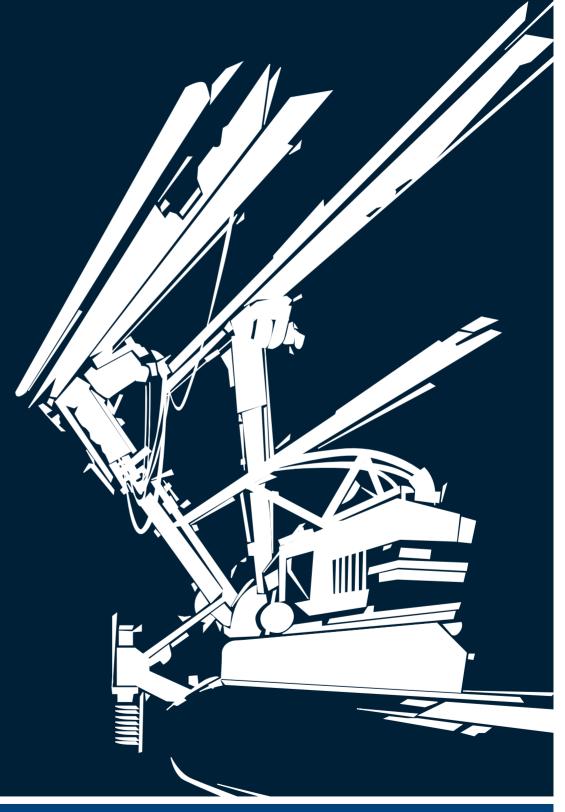
PST-60





PST-60

ROTARY EQUIPMENT FOR TUNNELLING

A new model

60 ton class machine the main features of Soilmec drilling machines is that there are 2 drilling guides, mounted and controlled indipendently of each other and supported by 2 telescoping rams, which are connected to the main frame by means of 2 slewing rings.

The main frame of the rig is of crawler type complete with 4 outriggers and sliding frame for positioning slew rings at different heights and levels to meet the requirements of the tunnel to be excavated. The mast is equipped with an hydraulic telescoping foot pad wich can be placed against the excavating face. This allows the use of rope operated crowd system/pull back to be applied to drill string. Once the mast has been positioned as required, the consolidation treatment can be completed. Connected to the slew rings are the supports for the mast. This configuration allows drilling to be carried out through 180°.

Thanks to special double counterslide, the machine can reach a consolidation height of 10700 mm.

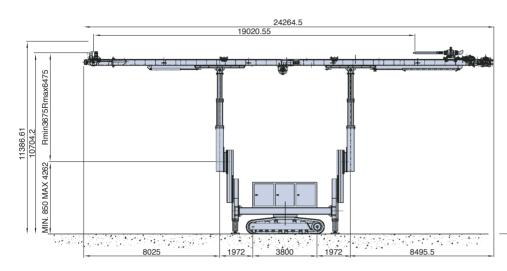
The following drilling techniques can be applied using the PST-60:

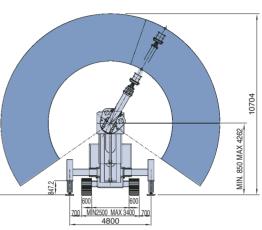
- Rotation (with or without casing)
 Rotopercussion by means of Top Hammer (with or without casing)
 Rotopercussion by means of Down the Hole Hammer (with Tubex, simmetrix superjews system)

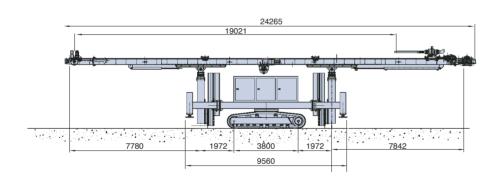
Crawler undercarriage		
Track shoe width	mm	600
Wheel base	mm	3710
Overall length	mm	4510
Overall width (not extendable crawler)	mm	
Retracted crawler width (extendable crawler)	mm	
Extended crawler width (extendable crawler)	mm	3700 2500 - 4800
Hydraulic stabilizers (retracted-extended) Travelling speed	mm km/h	2500 - 4600 1.5
Average ground pressure	MPa	0.12
	IVIFd	0.12
Turret		260
Crawler undercarriage rotation degree	deg	360
Tipe of boom		slew ring
Dadius of sansalidation treatment at 0° min/may	, mm	Min Max 3675 6475
Radius of consolidation treatment at 0°: min/max Radius of consolidation treatment at 5°: min/max		3675 6475 3675 7147
Dimensions: width x height at 0°	k mm mm	10700
Max drilling angle	111111	20°
Height from working level of slew ring rotation axis	s mm	850 - 4262
	S IIIIII	630 - 4202
Diesel engine		DELITE TOD 2042 LOC
Diesel Engine make and model	LAA//DLL	DEUTZ_TCD 2012 L06
Diesel Engine power rating (SAE J1995)	kW (BHp)	135 (181) @ 1900 rpm
Fuel tank capacity		300
Electric motor		
Number of motor		1
Make and model		SIEMENS 4 POLS 50 HZ 380V
Rated power	kW (CV)	110 (150)
Hydraulic system		
Main pumps: variable displacement axial pumps	l/min	250
Set pressure main pumps	MPa	28
Auxiliary pumps: gear pumps	l/min	90 + 30 x 2
Set pressure auxiliary pumps	MPa	25
Hydraulic oil tank capacity		600
Standard rotary head		
Gear box ratios		2
Max. nominal torque (25 MPa)	daNm	1560 @ 59 rpm
Maximum drilling speed	rpm	300
Double rotary head		
Gear box ratios		2
Max. nominal torque (31.5 MPa)	daNm	1350 @ 56 rpm (140 rpm max)
• •	darviii	1550 @ 50 1pm (140 1pm max)
Hoist & feed system		Winch type
Feed type Feed stroke	mm	Winch type 19.000 (24.000 optional kit)
Maximum hoist pull	mm kN	19.000 (24.000 optional kit) 70
Maximum feed force	kN	70
Maximum speed	m/min	26
•	111/111111	20
Clamp & hydraulic joint breaker	mm	CO 350
Nominal size	mm	60-250
Maximum clamping force (28 MPa)	kN daNm	159
Maximum breaking torque Extractors stroke	daNm	3830 600
Extractors stroke	mm	000
Rod Carousel		
Rod diameters	mm	114 - 90
Rod lenght x n° of rods	mm	18000 x n° 1
Service platform		
Weight @ number of people	kg	300 - n°1
Top Hammer		
Type and model		Krupp HB40A Krupp HB50A
Foam pump		111 app 112 1011
	l/min @ bar	20 1/min @ 40 har
, ,	milli @ Ddl	30 l/min @ 40 bar
Mass		CO CE :
lotal words	kg	60 - 65 ton
Total weight	Kg	00 03 (01)

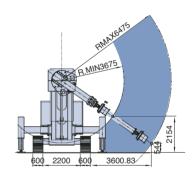
PST-60

ROTARY EQUIPMENT FOR TUNNELLING













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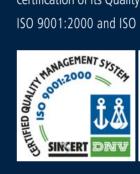
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In 1990 Soilmec was awarded with the certification of its Quality System complying with ISO 9001:2000 and ISO 14001:2400 standards.





SOILMEC S.p.A.

Drilling and Foundation Equipment

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