

ASM 800

Technical Specifications Catalog



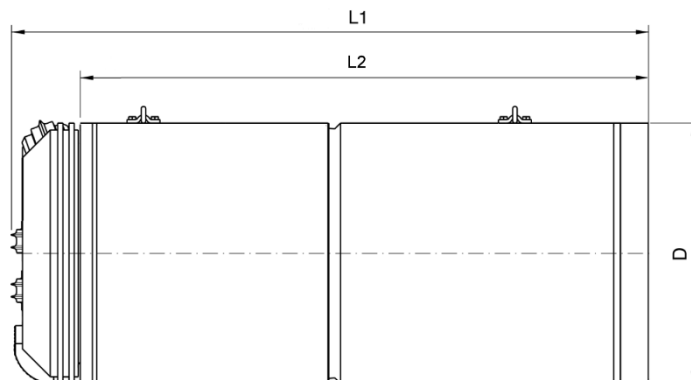
TECHNICAL SPECIFICATIONS

Outside Diameter	1150	mm
Overall Length with Cutting Wheel	5566	mm
Max. Torque Left / Right	100	kN.m
Breakout Torque	150	kN.m
Revolution	0 – 6.5	rpm
No. of Drive Motors	1	No.
No. of Steering Cylinders	3	Nos.
Steering Stroke	50	mm
Diameter of Steering Cylinder Piston / Rod	110 / 70	mm
Steering Capacity per Cylinder Extend / Retract	393 / 230	kN
Working Pressure	414	Bar
Max. Pressure of Steering Cylinder	450	Bar
Working Force per Cylinder	393	kN
Max. Force per Cylinder	408	kN
Steering Angle Up / down	4.4°	
Steering Angle Diagonal	4.4°	
Steering Angle Left / right	3.8°	
Anti-clogging Jet Wash	6	Outlet in chamber
Operating Pressure	250	Bar

HYDRAULIC AND BYPASS SYSTEM

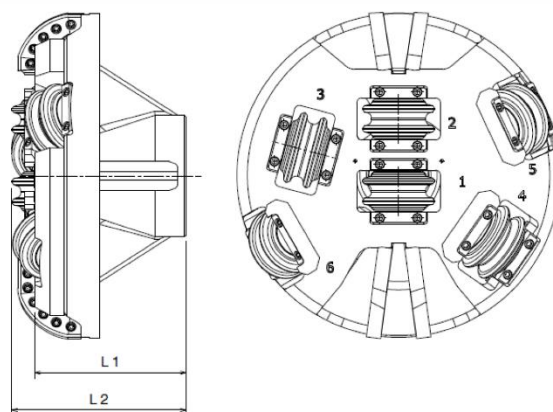
Power of Main Pump (Cutterhead Hydraulic Circuit)	110	Kw
Power of Push pump (Jack Frame Hydraulic Circuit)	55	Kw
Power of Steering & Cooling pump	2.2	Kw
Main Pump Flow Rate	260	litre / min
Hydraulic Pressure for Drive(Main Pump Max. Pressure)	280	Bar
Jack Frame Hydraulic Pump Flow Rate	80	litre / min
Jack Frame Hydraulic Pump (Max. Pressure)	420	Bar
Cooling Pump Flow Rate	87	litre / min
Hydraulic Tank Capacity	1000	litre
Diameter Feed / Slurry Lines	100	mm
Diameter Bypass	100	mm
Type & No. of Slurry Actuators	Hydraulic 3	Nos.
Feed and Slurry Lines Pressure	16	Bar

MACHINE DIMENSIONS



Machine Type	Slurry Type	
Diameter	1115	mm
Length with Cutting Wheel	3193	mm
Length without Cutting Wheel	2863	mm
Thread	4 x M36	
Weight	~ 7752	kgs

CUTTING WHEEL



Excavation Diameter	1150	mm
Bucket Diameter	1140	mm
Length Without Tools	523	mm
Length Inclusive Tools	603	mm
Weight	~1181	kgs
Disk Cutters (Single + Double)	(0 + 6)	
Disk Cutter Diameter	10	inch
Wear Plate	Yes	

SHIELD 1

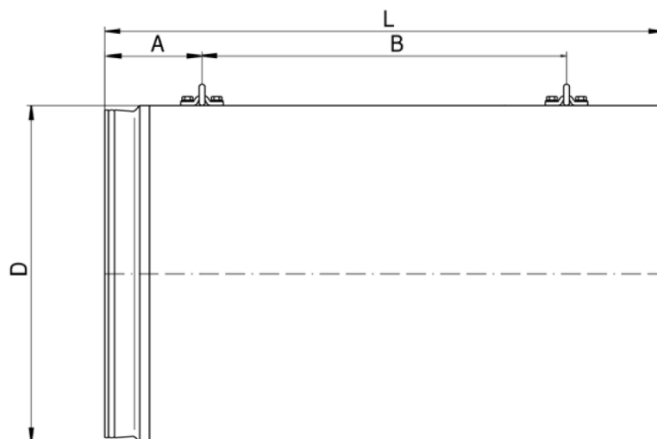
Diameter D	1120	mm
Length L	1025	mm
Weight G	~ 5897.9	kgs

SHIELD 2

Diameter D	1115	mm
Length L	2027	mm
Length A	448	mm
Length B	1090	mm
Threat	4 x M36	
Weight	~1855	kgs

SHIELD 3 (TRAILING TUBE)

Diameter	1110	mm
Length	2360	mm
Weight	~1774	kgs



LASER TARGET

Dimensions Active Surface of Laser Target	146 x 88	mm
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CONTROL CABIN SPECIFICATIONS

Cabin Type	C - ASM800 - PE	
Diameter (L x W x H)	6000 x 2450 x 3000	mm
Control system	Siemens S7	1500
Total Power	370	kW
Power for Invertors	3 x 55	kW
Attachments	Air Compressor	Air Conditioner
Launch Shaft Assets	Shaft box	Switch boxes
Cabin Weight	~ 12000	kgs

JACKING FRAME SPECIFICATIONS

Diameter (L x W x H)	4180 x 2430 x 1635	mm
Max. Working Pressure	430	Bar
Thrust Capacity @ 430 Bars	320	ton
Stroke	1250	mm
No. of Thrust Cylinders	2	Nos.
Diameter of Thrust Cylinders	220 / 150	mm
Leveling System	Threated bolt 4	Nos.
Total Weight	13500	kgs

MANUFACTURING AND ASSEMBLY PROCESS



