

METAX HIGH PRESSURE MUD PUMP - technical specification



PERFORMANCE TABLE

MOTOR PUMP MP7W-600

ENGINE DEUTZ BF8M1015 CP 440 kW (600 HP) at 2100 RPM with derating at 400 kW (544 HP) at 2100 RPM - GEARBOX ZF 16S221 – TRANSMISSION RATIO 1/4,3
6 ½" PISTONS (Ø 165,1 mm)

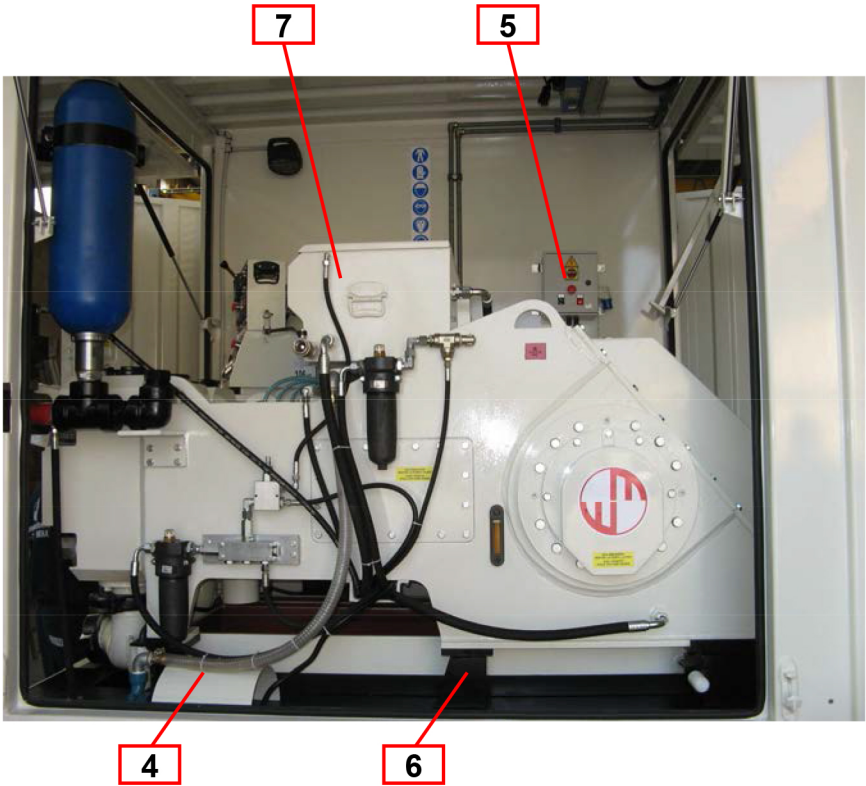
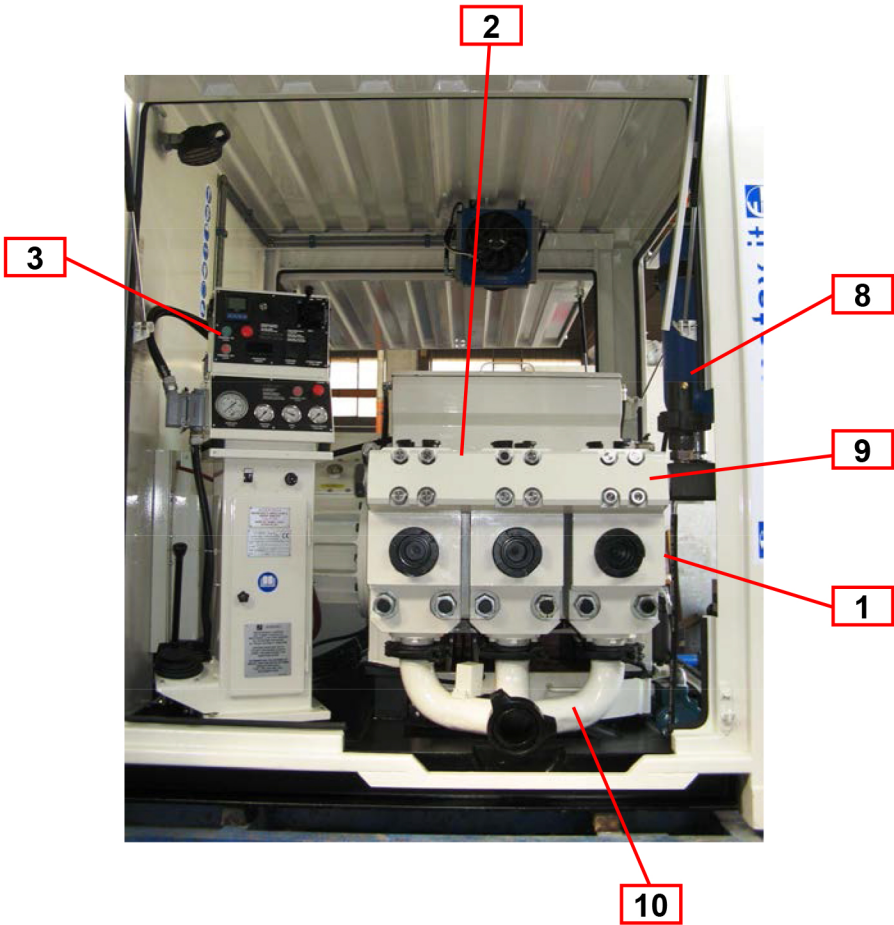
L= Low speed gear selection V= High speed gear selection S= Max speed gear selection

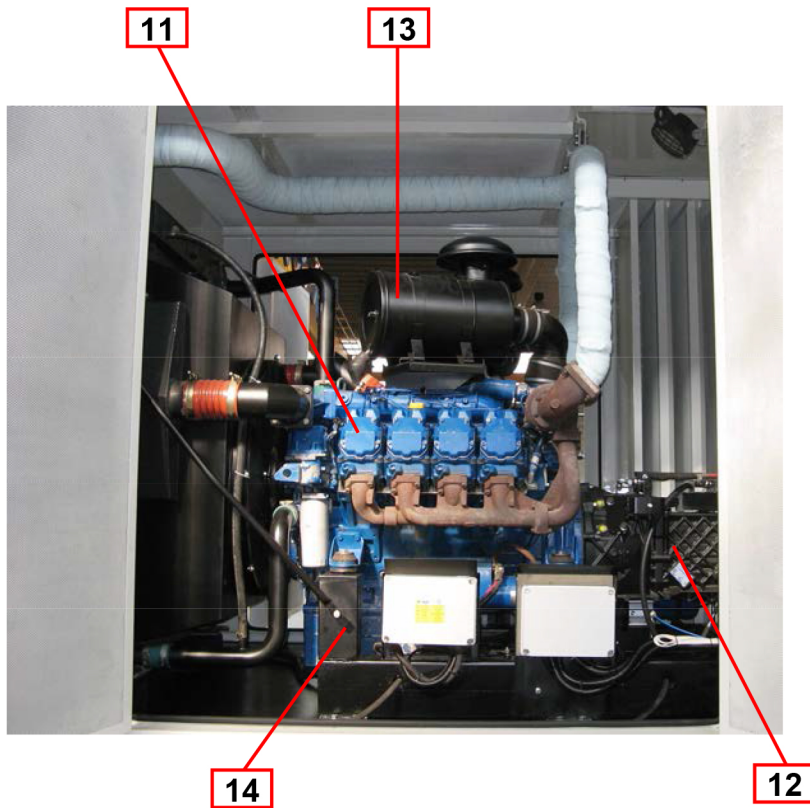
Engine rota- tions per minute	Transmission gears	Gear ratio	Pump rotations per minute	Nominal flow rate l/min.
1600	I(L)	13,8	27	308
1700			29	327
1800			30	346
1900			32	365
2000			34	385
2100			35	404
1600	I(V)	11,54	32	368
1700			34	391
1800			36	414
1900			38	437
2000			40	460
2100			42	483
1600	I(S)	3,02	123	1406
1700			131	1494
1800			139	1582
1900			146	1669
2000			154	1757
2100			162	1845
1600	II(L)	9,49	39	447
1700			42	475
1800			44	503
1900			47	531
2000			49	559
2100			51	587
1600	II(V)	7,93	47	535
1700			50	569
1800			53	602
1900			56	636
2000			59	669
2100			62	703

Engine rota- tions per minute	Transmission gears	Gear ratio	Pump rotations per minute	Nominal flow rate l/min.
1600	II(S)	2,08	179	2041
1700			190	2169
1800			201	2296
1900			212	2424
2000			224	2551
2100			235	2679
1600	III(L)	6,53	57	650
1700			61	691
1800			64	731
1900			68	772
2000			71	813
2100			75	853
1600	III(V)	5,46	68	778
1700			72	826
1800			77	875
1900			81	923
2000			85	972
2100			89	1021
1600	III(S)	4,43	260	2969
1700			276	3154
1800			293	3340
1900			309	3526
2000			325	3711
2100			342	3897
1600	IV(L)	4,57	81	929
1700			87	987
1800			92	1045
1900			97	1103
2000			102	1161
2100			107	1219
1600	IV(V)	3,82	97	1111
1700			103	1181
1800			110	1250
1900			116	1320
2000			122	1389
2100			128	1459
1600	IV(S)	4	372	4246
1700			395	4511
1800			419	4776
1900			442	5042
2000			465	5307
2100			488	5572

xxx Working conditions not allowed

GENERAL DESCRIPTION





1. Pump P7W
2. Pumping assembly
3. Control panel
4. Water pump for liners and pistons cooling system
5. Control panel of the pump for liners and pistons cooling system
6. Piston extensions and cross head lubrication pumps
7. Piston extensions oil tank
8. Manometer safety device
9. Delivery line equipment
10. Suction manifold
11. Engine
12. Gearbox
13. Air cleaner
14. Engine frame

TECHNICAL DATA

Dimensions

- Length..... 6,060 mm
- Width 2,580 mm
- Height 2,450 mm

Weight

- Machine weight.....15,000 kg

Transmission

- Type..... 1" quintuple chain¹/₂

Pressure/flow rate

- Maximum pressure (with 6 ½" pistons)..... 60 bar
- Maximum flow rate (with 6 ½" pistons)2300 litres/minute
max. mixture density 1,25 kg/dm³

Pistons

- Diameter 6 ½"

Suction

- Diameter 6"

Flow rate

- Diameter 3"

Engine

- Type..... Deutz BF8M-1015 CP
- Power Max 440 kW (600 HP) at 2100 RPM
with derating at 400 kW (544 HP) at 2100 RPM

Gearbox

- Type..... ZF 16S 221

Centrifugal pump for liners and pistons cooling system

- Type..... NMM25/160BE
 - Min/max flow rate 3/9,6 m³/h
 - Power 1.1 kW (1.5 HP)
 - Absorption..... 7.4 A
 - Rotation speed..... 2900/min.
 - Protection level IP 55
 - Cosine φ 0,97
 - Weight21,9 kg
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