

MP-25 User Manual

60010121 ASSY, MP 25-HO - 3 PHASE - 220V

60010122 ASSY, MP 25-SO - 3 PHASE - 220V

Revision - -10/03/2008

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www.machine-technologies.com

Dear Customer,
Before starting this machine please complete the following;
Machine Date of purchase
Machine serial number

Please read the following information contained within this manual and fully familiarize yourself with the equipment.

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	D8-1.5 STATOR-ADJ-GREEN-INTCLAMP	
	D8-1.5 ROTOR	
	D6-3 STATOR-FIXED-ORANGE	
30000042	D6-3 ROTOR	11
	D4-3 STATOR-FIXED-GREEN	
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30000045	R8-1.5 STATOR-ADJ-BLACK-INTCLAMP\	
	R8-1.5 ROTOR	
	APTER,PUMP 90MM-MP-25	
	OAPTER,PUMP 113.5MM-MP-25	
	mblies	
	ASSY,WATER CONTROL MP-25-4GPM	
	ASSY,WATER CONTROL MP-25-7GPM	
	A COV TIDDED MAID MAIT MD 45	
	ASSY,UPPER MTR MNT MP-25	
O .	nplete, and clean out shaft complete	
60010125	ASSY, DRIVE/MIX SHAFT MP-25	
	ASSY, SHAFT CLEAN OUT-MP-25	
-	tester, water hoses and fan duct	
60010140 60010139	ASSY WATER HOSE-COMPLETE-MP-25	
	ASSY WATER HOSE-COMPLETE-MP-25ASSY,PUMP HOSE COMPLETE MP-25	
60010147 60010144	ASSY,FAN DUCT MP-25	
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Section 1 - General Safety information

Danger

Follow these instructions very carefully, in order to avoid injury to yourself or others.

Electrically powered machine.

Always ensure that all power to the machine has been turned off and isolated before ANY maintenance / repair work is carried out on the machine.

Ensure that all guards are correctly fitted before starting or attempting to operate the machine.

Ensure that all fasteners are present and correctly fitted before attempting to start or operate the machine.

Ensure that the pump unit is correctly fastened to the front of the hopper unit of the machine, and free of damage before attempting to start or operate the machine.

Ensure that the main electric drive motor assembly, are secured to the rear of the hopper and clamped in place and free from damage before attempting to start or operate the machine.

The MP-25 mixing pump unit can produce high pressures, high torques and can use high voltages. Care must be taken by all users. Only authorized and trained persons should work with this machine.

Section 2 - Machine Description

Function

The MP-25 is a mixing pump.

The machine has a drive motor, that turns a drive shaft within a material hopper that in turn feeds material through a mixing / hydration chamber to a progressive cavity rotor stator pump unit that delivers the material from the hopper to the dispense head or otherwise via a material hose / hoses.

The machine is driven by an electric motor powered by 220VAC 3 phase 50/60Hz, via an electronic variable speed inverter supplied by two phase (commonly called single phase) OR three phase 208/240VAC 50/60 Hz grounded electrical supply.

All styles of drives transmit their rotary action through a drive shaft equipped with bridge breakers, and metering flights, which convey the material from the hopper into the mixing / hydration chamber, where surface hardened mixing arms mix and shear the material with water, towards the pump unit, where further mixing occurs.

The pump unit is a progressive cavity pump unit comprising of a helical rotating "rotor" with the rubber lined "stator". As the rotor rotates, material is drawn / fed into open rubber cavities, which then transform into "pockets". The series of cavities, then move from one end of the stator to the other as the rotor turn with respect to the stationary stator, causing the material to be conveyed from the hopper towards the outlet.

Once the material has reached the outlet it is guided through an output flange assembly, into the dispense hose through to the hose outlet, where typically a spray nozzle is attached allowing, with the assistance of an auxiliary air supply, the material to be "sprayed" on to the substrate, or simply allowed to discharge from the end of the hose.

A number of different devices can be fitted to the outlet of the tube for different means of application. For details of these different devices please contact your supplier of Machine-Technologies equipment or Machine-Technologies directly.

The primary difference between the three models is the combination of, rotor stator size (D or R style), water flow meter capacity (4 GPM or 7 GPM), and motor HP (5.4 or 7.5).

Machine illustrations

Photographs

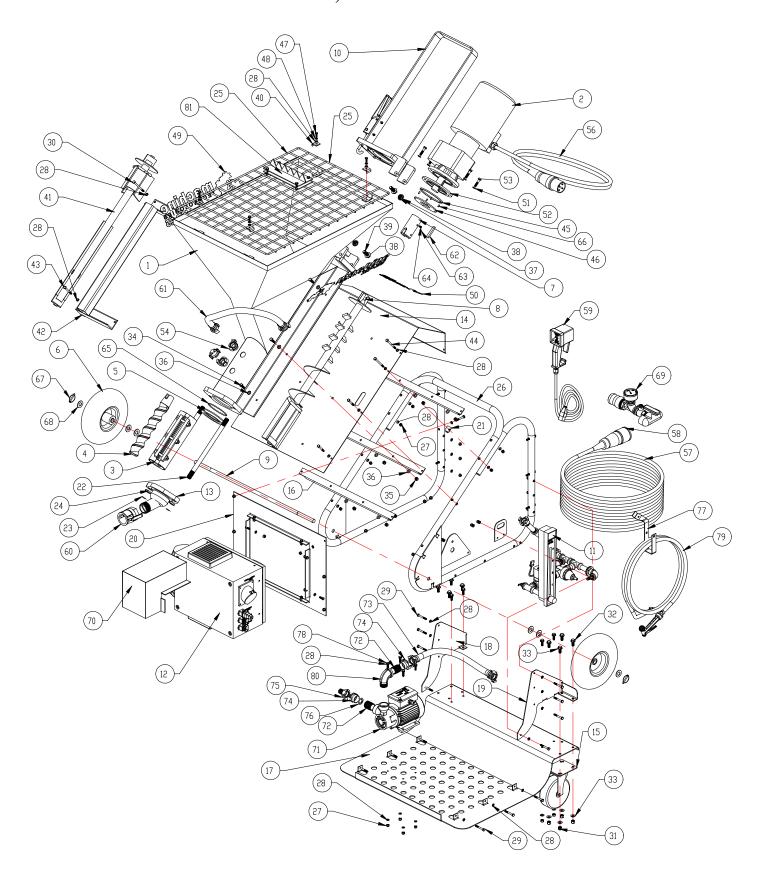
Single phase, STD output, unit shown





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Illustration – 60010120 ASSY, MP 25-SO - SINGLE PHASE 220V

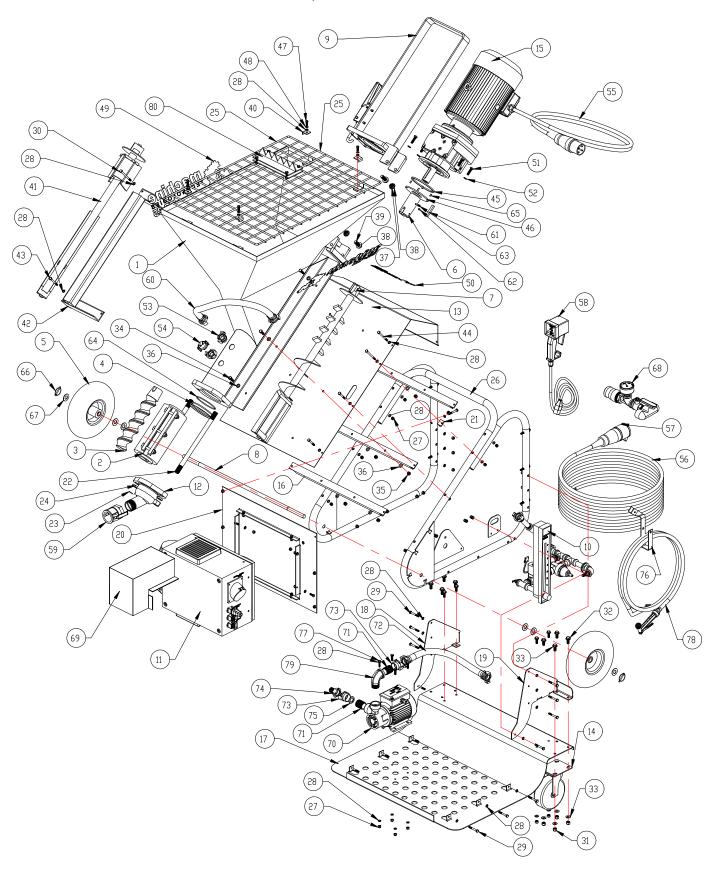


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$Bill \ of \ Materials - 60010120 \ ASSY, \ MP \ 25\text{-}SO \ - SINGLE \ PHASE \ 220V$

1 1 G001037 ASSY, JDPER-MP-25 2 1 20000004 MITTER-GEARBLA, ABM-4KW 3 1 30000040 BS-15 STATOR-ADJ-GREEN-INTCLAMP 4 1 30000040 BS-15 STATOR-ADJ-GREEN-INTCLAMP 5 1 44010257 ADAPTER-PIMP 90M-MP-25 6 2 30000016 TIRE, JOP PREUMATIC-5/8* BDRE, 3 1/2*WIDE 7 1 4401025 ASSY, DRIVEY, MISCARP PUMP X 8 1 60010125 ASSY, DRIVEY, MISCARP PUMP X 9 1 44010255 ASSY, DRIVEY, MISCARP PUMP X 10 1 6001034 ASSY, WARE CRIMETEL MP-25 10 1 6001034 ASSY, WARE CRIMETEL MP-25-4GPM 12 1 20000047 BDR, CONTROL MP-25 SEQV-1PH 13 1 60010129 ASSY, WATER CRIMETEL MP-25-4GPM 14 1 4401025 COLVER-TOP-MP-25 15 2 3000095 G* CASTER, SVIVEL W/PRAKE, LARGE PLATE 16 3 44010255 BRACE FRAME MP-25 17 1 44010255 SUPPORT, SIDE PAN-LHS-MP-25 18 1 44010255 SUPPORT, SIDE PAN-LHS-MP-25 19 1 44010253 SUPPORT, SIDE PAN-LHS-MP-25 20 1 44010253 SUPPORT, SIDE PAN-LHS-MP-25 21 2 44010250 SPACER-ANGLE FRAME MP-25 22 1 10000062 AUSWERS PILL TH COLL JAY-13 23 2 10000053 NUT, HEX SITEE JAY-10 UNC 24 2 10000069 NASHER SPILL TH COLL JAY-13 25 1 60010133 ASSY, GRID HOPPER ASSY MP-25 26 1 60010133 ASSY, FRAME TIBE FULL RAD-SPACER 27 40 10000017 NUT, HYL KI L/4-20 UNC 28 84 10000069 VASHER SPILL TH COLL JAY-13 29 23 10000082 BOLT, HEX L/4-20x2*UNG 30 1 10000084 BOLT, HEX SIZE-18 UNC 31 8 10000095 NUT, HEX SIZE-18 UNC 32 8 10000095 NUT, HEX SIZE-18 UNC 33 16 10000044 VASHER S. JG-18 GDS 34 10000099 VASHER S. JG-18 GDS 35 1 6000133 ASSY, FRAME TIBE FULL RAD-SPACER 36 1 6001033 ASSY, FRAME TIBE FULL RAD-SPACER 37 1 10000069 LIT, HEX L/4-20x2*UNG 38 1 10000069 NUT, HEX L/4-20x3*UNG 39 1 10000069 SIZE-18 CRIM HOPPER 39 2 10000069 NUT, HEX L/4-20x3*UNG 30 1 10000069 SIZE-18 CRIM HOPPER 30 1 10000069 SIZE-18 CRIM HOPPER 31 1 44010245 SIZE-18 CRIM HOPPER 32 1 10000069 SIZE-18 CRIM HOPPER 33 1 10000069 SIZE-18 CRIM HOPPER 34 1 1 10000069 SIZE-18 CRIM HOPPER 35 1 1 10000069 SIZE-18 CRIM HOPPER 36 1 1 1000069 SIZE-18 CRIM HOPPER 37 1 1 10000069 SIZE-18 CRIM HOPPER 38 1 10000069 SIZE-18 CRIM HOPPER 39 1 1 10000069 SIZE-18 CRIM HOPPER 30 1 10000069 SIZE-18 CRIM HOPPER 31 1 10000069 SIZE-18 CR	TEN NO	h TV	DADT NO	DECODIDITION
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10				
11				AXLE, HUPPER MP-25
12		1		ASSY,UPPER MTR MNT MP-25
13		1	60010136	
14		1		
15	13	1	60010129	ASSY, NDZZLE DUTPUT-90MM-MP-25
16	14	1	44010265	
17	15	2	30000095	
18	16	3	44010255	BRACE FRAME MP-25
19	17	1	44010254	PAN,PLATE MP-25
19	18	1	44010253	SUPPORT,SIDE PAN-RHS-MP-25
20	19	1		
21		1		
22 2 10000062 ALL-THREAD-3/4-10x13' 23 2 10000035 NUT_HEX_STEEL_3/4'-10 UNC 24 2 10000089 WASHER_SPLIT HI_COLL_3/4-13 25 1 60010133 ASSY_GRID HOPPER_ASSY_MP-25 26 1 60010132 ASSY_GRID HOPPER_ASSY_MP-25 27 40 10000017 NUT_NYLDK_1/4-20 UNC 28 84 10000009 WASHER_FLAT_1/4'' 29 23 10000009 BBLT_HEX_1/4-20x3_3/4' 30 1 10000072 BBLT_HEX_1/4-20x3_3/4' 31 8 10000095 BBLT_HEX_1/4-20x3_3/4' 31 8 10000095 BBLT_HEX_3/8-16_GD5 32 8 10000095 BBLT_HEX_3/8-16_GD5 33 16 10000044 WASHER_3/8' STEEL 33 16 10000094 WASHER_S/8' STEEL 34 10 10000095 BBLT_HEX_5/16-18_GD2 35 10 10000092 NUT_NYLDC_5/16-18_GD2 36 20 10000093 NUT_NYLDC_5/16-18_GD2 37 2 10000093 NUT_NYLDC_1/2-13_THIN_THK 38 4 10000033 WASHER_FLAT_5/16 39 2 10000096 NUT_NYLDC_1/2-13_THIN_THK 40 4 440100033 WASHER_FLAT_S/16 41 1 6001016 ASSY_SHAFT_CLEAN_DUT_MP-25 42 1 6001016 ASSY_SHAFT_CLEAN_DUT_MP-25 43 1 10000079 BBLT_HEX_1/4-20x2_1/2'LNG 44 3 10000097 BBLT_HEX_1/4-20x3-1-4'LNG 45 1 44010013 ASSY_RACK_CLEANDUT_MP-25 43 1 10000098 BBLT_HEX_1/4-20x0.75' 44 4 40100013 SEAL_GREASE_MDTOR_G/BDX 47 12 10000015 BBLT_HEX_1/4-20x0.75' 50 1 44010275 LABEL_SIDE_MP-25 51 4 10000016 BBLT_HEX_5/16-18_GD5 1/2' 55 1 44010275 LABEL_SIDE_MP-25 51 4 10000016 BBLT_HEX_5/16-18_GD5 1/2' 55 1 44010275 LABEL_SIDE_MP-25 51 4 10000017 BBLT_HEX_1/4-20x0.75' 51 4 10000018 BBLT_HEX_5/16-18_GD5 1/2' 55 1 44010275 LABEL_SIDE_MP-25 51 4 10000018 BBLT_HEX_5/16-18_GD5 1/2' 55 1 44010275 LABEL_SIDE_MP-25 51 4 10000019 GEKA_STYLE_FITTING_3/4' MALE_FIPE 55 1 40000011 GEKA_STYLE_FIDE_MP-25 56 1 20000012 SERVE_SET_1/4-20x0.75' 57 1 20000014 ASSY_CABLE_MDTOR_FIRE_FIPE 56 1 40000015 SERVE_SET_1/4-20x0.75' 57 1 20000016 SINEALTER_FIRE_FIPE 57 1 40000017 SERVE_SET_1/4-20x0.74' 58 1 10000005 SINEALTER_FIPE 58 1 40000018 SINEAL				
23				
24 2 10000089 WASHER SPLIT HI COLL 3/4-13 25 1 60010132 ASSY, FRAME TUBE FULL RAD-SPACER 27 40 10000017 NUT, NYLDK 1/4-20 UNC 28 84 1000009 WASHER, FLAT 1/4' 29 23 10000082 BOLT, HEX 1/4-20x2'LNG 30 1 10000072 BOLT HEX 1/4-20x2'LNG 31 8 10000097 NUT, NYLDK 3/8-16 GD5 32 8 10000095 BOLT, HEX 3/8-16-UNC x 1' LNG 33 16 10000044 WASHER 3/8' STEEL 34 10 10000094 BOLT, HEX 5/16-18 UNC 1' LDNG 35 10 10000094 BOLT, HEX 5/16-18 UNC 1' LDNG 36 20 10000093 WASHER, FLAT 5/16 37 2 10000090 NUT, NYLDC 5/16-18 GD2 38 4 10000003 WASHER, FLAT 5/16 39 2 10000096 BOLT, HEX 1/2-13x125.NG-GD5 40 4 44010042 KEEPER, PLATE GRID HOPPER 41 1 60010126 ASSY, SHAFT CLEAN DUT-MP-25 42 1 60010131 ASSY, RACK CLEANDUT MP-25 43 1 100000079 BOLT, HEX 1/4-20x2 1/2'LNG 44 3 10000091 BOLT, HEX 1/4-20x2 1/2'LNG 45 1 44010014 ADAPTER, MIDTOR-FLANGE 46 1 44010013 SEAL, GREASE MIDTOR GYBOX 47 12 10000015 BOLT, HEX 1/4-20x2 1/2'LNG 48 4 10000008 WASHER, SHAD WASHER, SHA				
25				
26				
27				
28				
29				
30				WHOLIEK, FEHT 1/4 DRI T LIEV 1/4-20, 24 MC
31				
32 8 10000095 BDLT,HEX 3/8-16-UNC X 1' LNG 33 16 10000044 WASHER 3/8' STEEL 34 10 10000094 BDLT HEX 5/16-18 UNC 1' LDNG 35 10 10000092 NUT,NYLDC 5/16-18 GD2 36 20 1000093 WASHER,FLAT 5/16 37 2 10000090 NUT,NYLDC 1/2-13 THIN THK 38 4 10000033 WASHER,PLAIN 1/2' 39 2 10000096 BDLT,HEX 1/2-13X THIN THK 4 1 1 60010126 ASSY,SHAFT CLEAN DUT-MP-25 40 4 44010042 KEEPER,PLATE GRID HDPPER 41 1 60010126 ASSY,SHAFT CLEAN DUT-MP-25 42 1 60010131 ASSY,RACK CLEANDUT MP-25 43 1 10000079 BDLT,1/4-20x2 1/2'LNG 44 3 10000079 BDLT,HEX 1/4-20x3-1-4'LNG 45 1 44010014 ADAPTER,MDTDR-FLANGE 46 1 44010013 SEAL,GREASE MDTDR G/BDX 47 12 1000015 BDLT,HEX 1/4-20x0.75' 48 4 10000008 BDLT,HEX 1/4-20x0.75' 49 2 44010275 LABEL,SIDE MP-25 50 1 44010276 LABEL,SIDE MP-25 51 4 10000098 BDLT,HEX 5/16-18 GD5 1 1/2' 52 1 44010283 SPACER, MP-25 4KW MDTDR 53 4 10000098 BDLT,HEX 5/16-18 GD5 1 1/2' 54 2 40000009 BBLT,HEX 5/16-18 GD5 1 1/2' 55 1 40000001 GEKA STYLE HDSE END CAP 56 1 20000021 ASSY,CABLE MDTDR 4KW 57 1 20000011 GEKA STYLE FITTING 3/4' MALE PIPE 56 1 20000021 ASSY,CABLE MDTDR 4KW 57 1 20000011 GEKA STYLE HDSE END CAP 58 1 20000011 GEKA STYLE HDSE END CAP 59 1 20000049 REMDTE,WIRED-P/D-25 60 1 30000099 CREW,STET LA-128-1/28-1/38-1/4" 64 1 10000099 SCREW,SET 1/4-20x1/4' 65 1 4000003 D-RING,0139'x4.012'DB-BUNA-N 66 1 10000019 VASHER,ARLE 5/8'-1.313'X0.093' 69 1 60010140 TESTER,WATER PRESS - 35MM-MALE-600PSI 70 1 60010144 ASSY,FAN DUCT MP-25 71 1 20000055 PUMP,WATER PRESS - 35MM-MALE-600PSI 73 1 60010147 ASSY,PUMP HDSE CUMPLETE MP-25 74 2 40000019 SCREW,SET 1/4-20x1/4' 75 1 60010147 ASSY,PUMP HDSE CUMPLETE MP-25 76 1 1 0000019 STRAINCH STEEL FITTING 1' NPT FEMALE 68 6 1000019 TRAINCH STEEL FITTING 1' NPT FEMALE 69 1 60010140 ASSY,WASHDWN HDSE CUMPLETE MP-25 76 1 10000033 BLT, HEX 1/4-20UNCX1' 77 1 40000033 BLT, HEX 1/4-20UNCX1' 78 4 10000033 BLT, HEX 1/4-20UNCX1' 79 1 60010148 ASSY,WASHDWN HDSE CUMPLETE MP-25 80 1 300000055 ELBBW 90- 1'NPT-MALE-FEMALE				
33 16 10000044 WASHER 3/8' STEEL 34 10 10000092 NUT,NYLD 57/16-18 UNC 1' LDNG 35 10 10000093 WASHER,FLAT 5/16 36 20 1000093 WASHER,FLAT 5/16 37 2 10000090 NUT,NYLD 57/16-18 GD2 38 4 10000093 WASHER,FLAT 5/16 38 4 10000093 WASHER,PLAIN 1/2' 39 2 10000096 BDLT,HEX 1/2-13X1.25LNG-GD5 40 4 44010042 KEPER,PLAIT GRID HDPPER 41 1 60010136 ASSY,HAFT CLEAN DUT-MP-25 42 1 60010131 ASSY,RACK CLEANDUT MP-25 43 1 10000079 BDLT,1/4-20x2 1/2'LNG 44 3 10000091 BDLT,HEX 1/4-20x3-1-4'LNG 45 1 44010014 ADAPTER,MDTDR-FLANGE 46 1 44010013 SEAL,GREASE MDTDR G/BDX 47 12 10000015 BDLT,HEX 1/4-20x0.75' 48 4 10000018 BDLT,HEX 1/4-20x0.75' 48 4 10000018 BDLT,HEX 1/4-20x0.75' 50 1 444010275 LABEL,SIDE MP-25 51 1 4000275 LABEL,SIDE MP-25 52 1 44010275 LABEL,SIDE MP-25 53 4 10000099 GEKA STYLE FITTING 3/4' MALE PIPE 55 1 40000011 GEKA STYLE HDSE END CAP 55 1 20000011 GDR STYLE FITTING 3/4' MALE PIPE 56 1 20000011 GDR STYLE FITTING 3/4' MALE PIPE 57 1 20000011 GDR STYLE FITTING 3/4' MALE PIPE 60 1 30000029 GDR STYLE FITTING 3/4' MALE PIPE 61 1 60010139 ASSY,CABLE MOTER HUSE-COMPLETE-MP-25 62 1 44010035 KEY,SPECIAL, DRIVE DDG 35 DIA SHAFT 63 1 10000099 SCREW,SET 1/4-28-1/2LNG 64 1 10000099 SCREW,SET 1/4-28-1/2LNG 65 1 4000001 GEKA STYLE HDSE CDMPLETE-MP-25 66 1 100000099 SCREW,SET 1/4-28-1/2LNG 67 2 100000099 SCREW,SET 1/4-28-1/2LNG 68 6 10000019 WASHER,SHLE 5/8'-1,313'X0.093' 77 1 60010144 ASSY,FAN DUCT MP-25 78 1 0000010 GEKA STYLE FITTING 1' NPT FEMALE 67 2 10000086 PIN,LINCH 3/16x1-1/6x1-3/8SHK 68 6 10000019 WASHER,ALLE 5/8'-1,313'X0.093' 79 1 60010144 ASSY,FAN DUCT MP-25 71 1 20000010 TORD PIPER SOFT 1 COMPLETE MP-25 74 2 40000010 GEKA STYLE FITTING 1' NPT FEMALE 75 1 4000003 GEKA STYLE FITTING 1' NPT FEMALE 76 1 10000099 SCREW,SET 1/4-20-1/4-20-1/4' HOSE 77 1 1 20000055 PUMP,WATER 220V - 1PH 0.33kW 78 1 60010144 ASSY,PUMP HOSE CDMPLETE MP-25 79 1 1 60010148 ASSY,WASHDUWN HOSE CDMPLETE MP-25 80 1 30000055 ELBDW 90- 1'NPT-MALE-FEMALE				
34 10 10000094 BBLT HEX 5/16-18 UNC 1' LDNG 35 10 10000092 NUT,NYLDC 5/16-18 GD2 36 20 10000093 WASHER,FLAT 5/16 37 2 10000090 NUT,NYLDC 1/2-13 THIN THK 38 4 10000033 WASHER,FLAT 5/16 39 2 10000096 BBLT,HEX 1/2-13x1,25LNG-GD5 40 4 44010042 KEEPER,PLATE GRID HDPPER 41 1 60010126 ASSY,SHAFT CLEAN DUT-MP-25 42 1 6001013 ASSY,RACK CLEANDUT MP-25 43 1 10000079 BBLT 1/4-20x2 1/2"LNG 44 3 10000091 BBLT,HEX 1/2-20x3-1-4"LNG 45 1 44010014 ADAPTER,MDTDR-FLANGE 46 1 44010013 SEAL,GREASE MDTDR G/BDX 47 12 10000015 BBLT,HEX 1/4-20x0.75' 48 4 10000008 WASHER,SPLIT 1/4" 49 2 44010275 LABEL,SIDE MP-25 50 1 44010276 LABEL,END MP-25 51 4 10000059 WASHER,SPLIT 5/16' 52 1 44010283 SPACER, MP-25 4KW MDTDR 53 4 10000098 BBLT,HEX 5/16-18 GD5 1 1/2" 54 2 4000009 GEKA STYLE FITTING 3/4" MALE PIPE 55 1 4000001 ASSY,CABLE MDTDR 4KW 57 1 20000011 CDRD PDWER 50FT 3 CDRE 58 1 20000010 SDCKET,ALTEC 2PH 59 1 20000011 CDRD PDWER 50FT 3 CDRE 59 1 20000019 SCKEW,SET 1/4-28-1/2LNG 61 1 60010139 ASSY, WATER HDSS-COMPLETE-MP-25 62 1 44010013 PROWER SPET 1/4-28-1/2LNG 63 1 100000099 CREW,SET 1/4-28-1/2LNG 64 1 10000009 DWEL, SEAL BTINE 67 2 10000006 PIN,LINCH 3/16x1-1/8x1-3/8SHK 68 6 10000019 WASHER,SPLIT 5/16' 69 1 6001014 ASSY,CABLE MDTDR AWAHALE -000PSI 70 1 6001014 ASSY,CABLE MDTDR SWAHALE -000PSI 71 1 20000011 CDRD PDWER 50FT 3 CDRE 72 2 3000008 PIN,LINCH 3/16x1-1/8x1-3/8SHK 73 1 00000099 CDUPLER,35MM-CAMLDCK-FMALE-1 1/2" 64 1 10000099 CREW,SET 1/4-28-1/2LNG 65 1 4000003 DREE, SEAL RETAINER 67 2 1000008 PIN,LINCH 3/16x1-1/8x1-3/8SHK 68 6 10000019 WASHER,ALLE 5/8"-1.313'X0.093" 79 1 60010144 ASSY,FAN DUCT MP-25 70 1 60010144 ASSY,FAN DUCT MP-25 71 1 20000010 STRET,WATER PECS - 35MM-MALE-600PSI 71 1 20000055 PUMP,WATER 200V - 1PH 0.33kW 71 1 40000069 PUMP,WATER 200V - 1PH 0.33kW 72 2 3000010 STRET,WATER PECS - 35MM-MALE-600PSI 73 1 6001014 ASSY,FAN DUCT MP-25 74 2 40000010 GEKA STYLE FITTING 1/ NPT FEMALE 75 1 40000013 STRAINER,WASHER-1' NPT-60/50MESH 76 1 30000019 STRAINER,WASHER-1' NPT-60/50MESH 77 1 40000015 SCRET,WASHER BUSE CDMPLETE MP-25				
35 10 10000092 NUT,NYLDC 5716-18 GD2 36 20 1000093 WASHER,FLAT 5716 37 2 1000099 NUT,NYLDC 172-13 THIN THK 38 4 10000033 WASHER,PLAIN 172' 39 2 1000096 BDLT,HEX 172-13X-12SLNG-GD5 40 4 44010042 KEPPER,PLATE GRID HDPPER 41 1 60010126 ASSY,SHAFT CLEAN DUT-MP-25 42 1 60010131 ASSY,RACK CLEANDUT MP-25 43 1 10000079 BDLT 174-20x2 172'LNG 44 3 10000079 BDLT 174-20x2 172'LNG 45 1 44010014 ADAPTER,MIDTR-FLANGE 46 1 44010013 SEAL,GREASE MDTDR G/BDX 47 12 10000015 BBLT,HEX 174-20x0.75' 48 4 10000008 WASHER,SPLIT 174' 49 2 44010275 LABEL,SIDE MP-25 50 1 44010276 LABEL,END MP-25 51 4 10000099 BDLT,HEX 1576-18 GD5 1 172' 54 2 4000009 GEKA STYLE FITTING 374' MALE PIPE 55 1 40000011 GEKA STYLE HDSE END CAP 56 1 20000021 ASSY,CABLE MDTDR 4KW 57 1 20000011 CDRD PDWER 50FT 3 CDRE 58 1 20000010 SICKET,ALTEC 2PH 59 1 20000019 REMITE,WIRED-P/D-25 60 1 30000029 CDUPLER,3SMM-CAMLDCK-FMALE-1 172' 61 1 60010139 ASSY WATER HDSE COMPLETE-MP-25 62 1 44010015 SCREW,SET 174-28-172LNG 63 1 10000009 SCREW,SET 174-28-172LNG 64 1 10000009 SCREW,SET 174-28-172LNG 65 1 4000001 SCREW,SET 174-28-172LNG 66 4 10000005 SCREW,SET 174-28-172LNG 67 2 1000006 PIN,LINCH 3716x1-178X1-378SHK 68 6 10000019 WASHER,SPLIE 575-18 GDG 35 DIA SHAFT 70 1 6001014 ASSY,FAN DUCT MP-25 71 1 20000019 SCREW,SET 174-28-172LNG 67 2 1000006 PIN,LINCH 3716x1-178X1-378SHK 68 6 10000019 WASHER,SALLE 578*-1313YX0.093* 72 2 3000010 SCREW,SET 174-28-172LNG 73 1 6001014 ASSY,FAN DUCT MP-25 74 2 40000003 SCREW,SET 174-28-172LNG 75 1 40000019 SCREW,SET 174-28-172LNG 76 1 30000005 PUMP,WATER 200V - 1PH 0.33kW 77 2 2 3000010 SCREW,SET 174-28-172LNG 78 1 6001014 ASSY,FAN DUCT MP-25 79 1 6001014 ASSY,FAN DUCT MP-25 70 1 6001014 ASSY,FAN DUCT MP-25 71 1 1 20000019 SCREW,SET 174-28-172LNG 75 1 40000029 BDLT, HEX STYLE FITTING 1' NPT FEMALE 76 1 30000010 SCREW,SET 174-28-172LNG 77 1 40000023 BDLT, HEX STYLE FITTING 1' NPT FEMALE 76 1 30000010 SCREW,SET STYLE FITTING 1' NPT FEMALE 77 1 40000023 BDLT, HEX 174-2000CX1' 78 1 60010144 ASSY,WASHDUWN HDSE CDMPLETE MP-25 80 1 30000055 ELBDW 90- 1'N				
36 20 10000093 WASHER,FLAT 5/16 37 2 10000090 NUT,NYLDC 1/2-13 THIN THK 38 4 10000033 WASHER,PLAIN 1/2' 39 2 10000096 BDLT,HEX 1/2-13x1.25LNG-GD5 40 4 44010042 KEEPER,PLATE GRID HDPPER 41 1 60010126 ASSY,SHAFT CLEAN DUT-MP-25 42 1 60010131 ASSY,RACK CLEANDUT MP-25 43 1 10000079 BDLT 1/4-20x2 1/2'LNG 44 3 10000091 BDLT,HEX 1/4-20x3-1-4'LNG 45 1 4401014 ADAPTER,MDTDR-FLANGE 46 1 44010013 SEAL,GREASE MDTDR G/BDX 47 12 10000015 BDLT,HEX 1/4-20x0.75' 48 4 10000008 WASHER,SPLIT 1/4' 49 2 44010275 LABEL,SIDE MP-25 50 1 44010276 LABEL,END MP-25 51 4 10000069 WASHER,SPLIT 5/16' 52 1 44010283 SPACER, MP-25 4KW MDTDR 53 4 10000098 BDLT,HEX 5/16-18 GD5 1 1/2' 54 2 40000009 GEKA STYLE FITTING 3/4' MALE PIPE 55 1 4 0000001 GEKA STYLE FISTING 3/4' MALE PIPE 55 1 20000011 CDRD PDWER 50FT 3 CDRE 56 1 20000021 ASSY,CABLE MDTDR 4KW 57 1 20000011 CDRD PDWER 50FT 3 CDRE 58 1 20000010 SDCKET,ALTEC 2PH 59 1 20000019 SCREKT,ALTEC 2PH 60 1 30000029 CDUPLER,35MM-CAMLDCK-FMALE-1 1/2' 61 1 60010139 ASSY WATER HDSE-CDMPLETE-MP-25 62 1 44010015 KEY,SPECIAL, DRIVE DDG 35 DIA SHAFT 63 1 10000005 SCREW,SET 1/4-28-1/2LNG 64 1 10000009 DWEL, SEAL RETAINER 67 2 10000014 ASSY,FAN DUCT MP-25 70 1 6001014 ASSY,FAN DUCT MP-25 71 1 20000019 DWEL, SEAL RETAINER 67 2 10000010 DWEL, SEAL RETAINER 68 6 10000019 DWEL, SEAL RETAINER 69 1 60010144 ASSY,FAN DUCT MP-25 70 1 60010144 ASSY,FAN DUCT MP-25 71 1 20000019 SCREW,SET 1/4-28-1/2LNG 72 2 30000108 NIPPLE 1' NPT - 1 1/2' LNG SCH 40 73 1 6001014 ASSY,PUMP HDSE CDMPLETE MP-25 74 2 40000009 SEREW,SET 1/4-28-1/2LNG 75 1 40000023 BULT,HEX 1/4-200V - 1PH 0.33kW 77 1 1 20000019 STRRINER,WASHER-I' NPT-60/50MESH 77 1 40000029 GEKA STYLE FITTING 1' NPT FEMALE 75 1 40000029 BRACKET,HDSE MP-25 76 1 30000019 STRRINER,WASHER-I' NPT-60/50MESH 77 1 40000023 BULT, HEX 1/4-200V - 1PH 0.33kW 77 1 40000029 BRACKET,HDSE MP-25 78 4 100000029 BRACKET,HDSE MP-25 78 4 100000029 BRACKET,HDSE MP-25 79 1 60010148 ASSY,WASHDBWIN HDSE CDMPLETE MP-25 80 1 30000055 ELBDW 90- 1'NPT-MALE-FEMALE				BOLT HEX 5/16-18 UNC 1" LONG
37				
38		20		WASHER,FLAT 5/16
39		2	10000090	NUT,NYLOC 1/2-13 THIN THK
39	38		10000033	WASHER,PLAIN 1/2"
40	39	2	10000096	BDLT,HEX 1/2-13×1.25LNG-GD5
42	40	4	44010042	KEEPER,PLATE GRID HOPPER
1 10000079 BDLT 1/4-20x2 1/2*LNG	41	1	60010126	ASSY,SHAFT CLEAN DUT-MP-25
45	42	1	60010131	ASSY,RACK CLEANDUT MP-25
45	43	1	10000079	BDLT 1/4-20x2 1/2"LNG
45	44	3	10000091	BDLT.HEX 1/4-20×3-1-4"LNG
46	45		44010014	
47		1		
48		12		
49				
1				
51				
1				
53				SPACES MP-25 4KW MOTOR
S4		_		IRDI T HEX 5/16-18 GD5 1 1/2"
1				
S6				
57 1 20000011 CDRD PDWER 50FT 3 CDRE 58 1 20000010 SDCKET,ALTEC 2PH 59 1 20000049 REMDIE,WIRED-P/D-25 60 1 30000029 CDUPLER,35MM-CAMLDCK-FMALE-1 1/2' 61 1 60010139 ASSY WATER HDSE-CDMPLETE-MP-25 62 1 44010015 KEY,SPECIAL, DRIVE DDG 35 DIA SHAFT 63 1 10000005 SCREW,SET 1/4-20x1/4' 64 1 1000009 SCREW,SET 1/4-28-1/2LNG 65 1 4000003 DERENG,0139'x4.012'D-BUNA-N 66 4 1000002 DDWEL, SEAL RETAINER 67 2 10000086 PINLINCH 3/16x1-1/8x1-3/8SHK 68 6 10000019 WASHER,AXLE 5/8'-1.313'X0.093' 69 1 60010140 TESTER,WATER PRESS - 35MM-MALE-600PSI 70 1 60010144 ASSY,FAN DUCT MP-25 71 1 20000055 PUMP,WATER 220V - 1PH 0.33kW 72 2 30000108 NIPPLE 1' NPT - 1 1/2' LNG SCH 40 73 1 60010147 ASSY,PUMP HDSE CDMPLETE MP-25 74 2 40000010 GEKA STYLE FITTING 1' NPT FEMALE 75 1 40000029 GEKA STYLE FITTING 1' NPT FEMALE 76 1 3000019 STRAINER,WASHER-1' NPT-60/50MESH 77 1 44010287 BRACKET,HDSE MP-25 78 4 10000023 BBLT, HEX 1/4-20UNC1' 79 1 60010148 ASSY,WASHDDWN HDSE CDMPLETE MP-25 80 1 30000055 ELBDW 90- 1'NPT-MALE-FEMALE		_		
S8	57	_		
1 20000049 REMDTE, WIRED-P/D-25				
60 1 3000029 CDUPLER,35MM-CAMLDCK-FMALE-1 1/2" 61 1 60010139 ASSY WATER HDSE-CDMPLETE-MP-25 62 1 44010015 KEY,SPECIAL, DRIVE DDG 35 DIA SHAFT 63 1 10000005 SCREW,SET 1/4-20x1/4" 64 1 10000099 SCREW,SET 1/4-28-1/2LNG 65 1 40000031 D-RING,0.139"x4.012"DD-BUNA-N 66 4 10000002 DDWEL, SEAL RETAINER 67 2 10000086 PIN,LINCH 3/16x1-1/8x1-3/8SHK 68 6 10000019 WASHER,AXLE 5/8"-1.313"X0.093" 69 1 60010140 TESTER,WATER PRESS - 35MM-MALE-600PSI 70 1 60010144 ASSY,FAN DUCT MP-25 71 1 20000055 PUMP,WATER 220V - 1PH 0.33kW 72 2 30000108 NIPPLE 1" NPT - 1 1/2" LNG SCH 40 73 1 60010147 ASSY,PUMP HDSE CDMPLETE MP-25 74 2 40000010 GEKA STYLE FITTING 1" NPT FEMALE 75 1 40000029 GEKA STYLE FITTING 1" NPT FEMALE 76 1 3000019 STRAINER,WASHER-1" NPT-60/50MESH 77 1 44010287 BRACKET,HDSE MP-25 78 4 10000023 BDLT, HEX 1/4-20UNCX1" 79 1 60010148 ASSY,WASHDDWN HDSE CDMPLETE MP-25 80 1 30000055 ELBDW 90-1"NPT-MALE-FEMALE				
61 1 60010139 ASSY WATER HDSE-CDMPLETE-MP-25 62 1 44010015 KEY,SPECIAL, DRIVE DIG 35 DIA SHAFT 63 1 10000005 SCREW,SET 1/4-20×1/4" 64 1 10000009 SCREW,SET 1/4-28-1/2LNG 65 1 40000033 D-RING,0.139"x4.012"DD-BUNA-N 66 4 10000002 DDWEL, SEAL RETAINER 67 2 10000086 PIN,LINCH 3/16×1-1/8×1-3/8SHK 68 6 10000019 WASHER,AXLE 5/8"-1.313"X0.093" 69 1 60010140 TESTER,WATER PRESS - 35MM-MALE-600PSI 70 1 60010144 ASSY,FAN DUCT MP-25 71 1 20000055 PUMP,WATER 220V - 1PH 0.33kW 72 2 30000108 NIPPLE 1" NPT - 1 1/2" LNG SCH 40 73 1 60010147 ASSY,PUMP HDSE CDMPLETE MP-25 74 2 40000010 GEKA STYLE FITTING 1" NPT FEMALE 75 1 40000029 GEKA STYLE FITTING 1" NPT FEMALE 76 1 30000109 STRAINER,WASHER-1" NPT-60/50MESH 77 1 44010287 BRACKET,HDSE MP-25 78 4 10000023 BDLT, HESS CDMPLETE MP-25 79 1 60010148 ASSY,WASHDUWN HDSE CDMPLETE MP-25 80 1 30000055 ELBDW 90-1"NPT-MALE-FEMALE		_		
62 1 44010015 KEY,SPECIAL, DRIVE DDG 35 DIA SHAFT 63 1 10000005 SCREW,SET 1/4-20x1/4" 64 1 10000099 SCREW,SET 1/4-28-1/2LNG 65 1 40000033 D-RING,0.139"x4.012"DD-BUNA-N 66 4 10000002 DDWEL, SEAL RETAINER 67 2 10000086 PIN,LINCH 3/16x1-1/8x1-3/8SHK 68 6 10000019 WASHER,AXLE 5/8"-1.313"X0.093" 69 1 60010140 TESTER,WATER PRESS - 35MM-MALE-600PSI 70 1 60010144 ASSY,FAN DUCT MP-25 71 1 20000055 PUMP,WATER 220V - 1PH 0.33kW 72 2 30000108 NIPPLE 1" NPT - 1 1/2" LNG SCH 40 73 1 60010147 ASSY,PUMP HDSE CDMPLETE MP-25 74 2 40000010 GEKA STYLE FITTING 1" NPT FEMALE 75 1 40000029 GEKA STYLE HDSE TAIL 3/4" HDSE 76 1 3000109 STRAINER,WASHER-1" NPT-60/50MESH 77 1 44010287 BRACKET,HDSE MP-25 78 4 10000023 BDLT, HEX 1/4-20UNCX1" 79 1 60010148 ASSY,WASHDUWN HDSE CDMPLETE MP-25 80 1 30000055 ELBDW 90-1"NPT-MALE-FEMALE				
63 1 1000005 SCREW,SET 1/4-20x1/4' 64 1 10000099 SCREW,SET 1/4-28-1/2LNG 65 1 40000033 D-RING,0.139'x4.012'DD-BUNA-N 66 4 10000002 DDWEL, SEAL RETAINER 67 2 10000086 PIN,LINCH 3/16x1-1/8x1-3/8SHK 68 6 10000019 WASHER,AXLE 5/8'-1.313'X0.093' 69 1 60010140 TESTER,WATER PRESS - 35MM-MALE-600PSI 70 1 60010144 ASSY,FAN DUCT MP-25 71 1 20000055 PUMP,WATER 220V - IPH 0.33kW 72 2 30000108 NIPPLE 1' NPT - 1 1/2' LNG SCH 40 73 1 60010147 ASSY,PUMP HDSE CDMPLETE MP-25 74 2 40000010 GEKA STYLE FITTING 1' NPT FEMALE 75 1 40000029 GEKA STYLE HDSE TAIL 3/4' HDSE 76 1 30000109 STRAINER,WASHER-1' NPT-60/50MESH 77 1 44010287 BRACKET,HDSE MP-25 78 4 10000023 BDLT, HEX 1/4-20UNCx1' 79 1 60010148 ASSY,WASHDDWN HDSE CDMPLETE MP-25 80 1 30000055 ELBDW 90- 1'NPT-MALE-FEMALE				
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65		_		
66 4 1000002 DDWEL, SEAL RETAINER 67 2 10000086 PIN,LINCH 3/16x1-1/8x1-3/8SHK 68 6 10000019 WASHER,AXLE 5/8*-1.313*X0.093* 69 1 60010140 TESTER,WATER PRESS - 35MM-MALE-600PSI 70 1 60010144 ASSY,FAN DUCT MP-25 71 1 20000055 PUMP,WATER 220V - 1PH 0.33kW 72 2 30000108 NIPPLE 1* NPT - 1 1/2* LNG SCH 40 73 1 60010147 ASSY,PUMP HDSE CDMPLETE MP-25 74 2 40000010 GEKA STYLE FITTING 1* NPT FEMALE 75 1 40000029 GEKA STYLE FITTING 1* NPT FEMALE 76 1 30000109 STRAINER,WASHER-1* NPT-60/50MESH 77 1 44010287 BRACKET,HDSE MP-25 78 4 10000023 BDLT, HEX 1/4-20UNCX1* 79 1 60010148 ASSY,WASHDDWN HDSE CDMPLETE MP-25 80 1 30000055 ELBDW 90- 1*NPT-MALE-FEMALE				
67 2 10000086 PIN,LINCH 3/16x1-1/8x1-3/8SHK 68 6 1000019 WASHER,AXLE 5/8'-1.313'X0.093' 69 1 60010140 TESTER,WATER PRESS - 35MM-MALE-600PSI 70 1 60010144 ASSY,FAN DUCT MP-25 71 1 20000055 PUMP,WATER 220V - 1PH 0.33kW 72 2 30000108 NIPPLE 1' NPT - 1 1/2' LNG SCH 40 73 1 60010147 ASSY,PUMP HIDSE COMPLETE MP-25 74 2 40000010 GEKA STYLE FITTING 1' NPT FEMALE 75 1 40000029 GEKA STYLE HIDSE TAIL 3/4' HIDSE 76 1 30000109 STRAINER,WASHER-1' NPT-60/50MESH 77 1 44010287 BRACKET,HIDSE MP-25 78 4 10000023 BDLT, HEX 1/4-20UNCX1' 79 1 60010148 ASSY,WASHDIWN HIDSE COMPLETE MP-25 80 1 30000055 ELBDW 90- 1'NPT-MALE-FEMALE				
68 6 10000019 WASHER,AXLE 5/8"-1.313"X0.093" 69 1 60010140 TESTER,WATER PRESS - 35MM-MALE-600PSI 70 1 60010144 ASSY,FAN DUCT MP-25 71 1 20000055 PUMP,WATER 220V - IPH 0.33kW 72 2 30000108 NIPPLE 1" NPT - 1 1/2" LNG SCH 40 73 1 60010147 ASSY,PUMP HDSE CDMPLETE MP-25 74 2 40000010 GEKA STYLE FITTING 1" NPT FEMALE 75 1 40000029 GEKA STYLE HDSE TAIL 3/4" HDSE 76 1 30000109 STRAINER,WASHER-1" NPT-60/50MESH 77 1 44010287 BRACKET,HDSE MP-25 78 4 10000023 BDLT, HEX 1/4-20UNCX1" 79 1 60010148 ASSY,WASHDDWN HDSE CDMPLETE MP-25 80 1 30000055 ELBDW 90- 1"NPT-MALE-FEMALE				
69 1 60010140 TESTER,WATER PRESS - 35MM-MALE-600PSI 70 1 60010144 ASSY,FAN DUCT MP-25 71 1 20000055 PUMP,WATER 220V - 1PH 0.33kW 72 2 30000108 NIPPLE 1' NPT - 1 1/2' LNG SCH 40 73 1 60010147 ASSY,PUMP HDSE CDMPLETE MP-25 74 2 40000010 GEKA STYLE FITTING 1' NPT FEMALE 75 1 40000029 GEKA STYLE FITTING 1' NPT FEMALE 76 1 30000109 STRAINER,WASHER-1' NPT-60/50MESH 77 1 44010287 BRACKET,HUSE MP-25 78 4 10000023 BDLT, HEVEN THE STRAINER MP-25 79 1 60010148 ASSY,WASHDUWN HDSE CDMPLETE MP-25 80 1 30000055 ELBDW 90- 1'NPT-MALE-FEMALE				
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71 1 20000055 PUMP,WATER 220V - 1PH 0.33kW 72 2 30000108 NIPPLE 1' NPT - 1 1/2' LNG SCH 40 73 1 60010147 ASSY,PUMP HDSE CDMPLETE MP-25 74 2 40000010 GEKA STYLE FITTING 1' NPT FEMALE 75 1 40000029 GEKA STYLE HDSE TAIL 3/4' HDSE 76 1 30000109 STRAINER,WASHER-1' NPT-60/50MESH 77 1 44010287 BRACKET,HDSE MP-25 78 4 10000023 BDLT, HEX 1/4-20UNCX1' 79 1 60010148 ASSY,WASHDDWN HDSE CDMPLETE MP-25 80 1 30000055 ELBDW 90- 1'NPT-MALE-FEMALE				
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73 1 60010147 ASSY,PUMP HDSE CDMPLETE MP-25 74 2 40000010 GEKA STYLE FITTING 1" NPT FEMALE 75 1 40000029 GEKA STYLE FIDE TAIL 3/4" HDSE 76 1 30000109 STRAINER,WASHER-1" NPT-60/50MESH 77 1 44010287 BRACKET,HDSE MP-25 78 4 10000023 BBLT, HEX 1/4-20UNCx1" 79 1 60010148 ASSY,WASHDDWN HDSE CDMPLETE MP-25 80 1 30000055 ELBDW 90- 1"NPT-MALE-FEMALE				
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75 1 4000029 GEKA STYLE HDSE TAIL 3/4" HDSE 76 1 30000109 STRAINER, WASHER-1" NPT-60/50MESH 77 1 44010287 BRACKET, HDSE MP-25 78 4 10000023 BDLT, HEX 1/4-20UNCx1" 79 1 60010148 ASSY, WASHDDWN HDSE CDMPLETE MP-25 80 1 30000055 ELBDW 90- 1"NPT-MALE-FEMALE	73	1	60010147	ASSY,PUMP HOSE COMPLETE MP-25
75 1 4000029 GEKA STYLE HDSE TAIL 3/4" HDSE 76 1 30000109 STRAINER, WASHER-1" NPT-60/50MESH 77 1 44010287 BRACKET, HDSE MP-25 78 4 10000023 BDLT, HEX 1/4-20UNCx1" 79 1 60010148 ASSY, WASHDDWN HDSE CDMPLETE MP-25 80 1 30000055 ELBDW 90- 1"NPT-MALE-FEMALE		2		GEKA STYLE FITTING 1" NPT FEMALE
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77 1 44010287 BRACKET,HDSE MP-25 78 4 10000023 BDLT, HEX 1/4-20UNCx1" 79 1 60010148 ASSY,WASHDDWN HDSE CDMPLETE MP-25 80 1 30000055 ELBDW 90- 1*NPT-MALE-FEMALE		_		
78				
79 1 60010148 ASSY,WASHDDWN HDSE CDMPLETE MP-25 80 1 30000055 ELBDW 90- 1'NPT-MALE-FEMALE				
80 1 30000055 ELBOW 90- 1"NPT-MALE-FEMALE				
	81	1	60010063	ASSY,BAG BREAKER - CONT MIX

Illustration – 60010121 ASSY, MP 25-HO - 3 PHASE - 220V



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$Bill\ of\ Materials - 60010121\ ASSY,\ MP\ 25\text{-HO} - 3\ PHASE - 220V$

	QTY.	PART NO.	DESCRIPTION ASSYLUTIONED NO. 25
1	1	60010137	ASSY,HDPPER-MP-25
2	1	30000045	R8-1.5 STATOR-ADJ-BLACK-INTCLAMP
3	1	30000046	R8-1.5 ROTOR
4	1	44010258	ADAPTER, PUMP 113.5MM-MP-25
5	2	30000016	TIRE,10" PNEUMATIC-5/8" BORE,3 1/2"WIDE
6	1	44010011	DRIVE, AUGER PUMP X
7	1	60010125	ASSY, DRIVE/MIX SHAFT MP-25
8	1	44010256	AXLE, HDPPER MP-25
9	1	60010134	ASSY,UPPER MTR MNT MP-25
10	1	60010142	ASSY, WATER CONTROL MP-25-7GPM
11	1	20000046	BOX, CONTROL MP-25 220V-3PH
12	1	60010130	ASSY, NOZZLE OUTPUT-113MM-MP-25
13	1	44010265	COVER-TOP-MP-25
14	2	30000095	6" CASTER,SWIVEL W/BRAKE,LARGE PLATE
15	1	20000051	MOTORGEARBOX 5.5KW - SEW-EURO 200
16	3	44010255	BRACE FRAME MP-25
17	1	44010254	PAN,PLATE MP-25
18	1	44010253	SUPPORT, SIDE PAN-RHS-MP-25
19	1	44010252	SUPPORT, SIDE PAN-LHS-MP-25
20	1	44010251	PANEL,MOUNT CONTROL-MP-25
21	2	44010250	SPACER-ANGLE FRAME MP-25
22	2	10000062	ALL-THREAD-3/4-10x13"
23	2	10000035	NUT,HEX STEEL 3/4"-10 UNC
24	2	10000089	WASHER SPLIT HI COLL 3/4-13
25	1	60010133	ASSY,GRID HOPPER ASSY MP-25
26	1	60010132	ASSY,FRAME TUBE FULLRAD-SPACER
27	40	10000017	NUT,NYLOK 1/4-20 UNC
28	84	10000009	WASHER,FLAT 1/4"
29	23	10000082	BOLT,HEX 1/4-20×2"LNG
30	1	10000072	BDLT HEX 1/4-20x3 3/4"
31	8	10000087	NUT,NYLOK 3/8-16 GD5
32	8	10000095	BOLT,HEX 3/8-16-UNC x 1" LNG
33	16	10000044	WASHER 3/8" STEEL
34	10	10000094	BOLT HEX 5/16-18 UNC 1" LONG
35	10	10000092	NUT,NYLOC 5/16-18 GD2
36	19	10000093	WASHER,FLAT 5/16
37	2	10000090	NUT,NYLOC 1/2-13 THIN THK
38	4	10000033	WASHER,PLAIN 1/2"
39	2	10000096	BDLT,HEX 1/2-13×1.25LNG-GD5
40	4	44010042	KEEPER,PLATE GRID HOPPER
41	1	60010126	ASSY,SHAFT CLEAN DUT-MP-25
42	1	60010131	ASSY,RACK CLEANDUT MP-25
43	1	10000079	BDLT 1/4-20x2 1/2"LNG
44	3	10000091	BDLT,HEX 1/4-20×3-1-4"LNG
45	1	44010014	ADAPTER,MOTOR-FLANGE
46	1	44010013	SEAL,GREASE MOTOR G/BOX
47	12	10000015	BDLT,HEX 1/4-20×0.75"
48	4	10000008	WASHER,SPLIT 1/4"
49	5	44010275	LABEL,SIDE MP-25
50	1	44010276	LABEL,END MP-25
51	4	10000068	BOLT HEX 5/16-18 UNC 1 1/4" LONG
52	4	10000069	WASHER, SPLIT 5/16"
53	2	40000009	GEKA STYLE FITTING 3/4" MALE PIPE
54	1	40000011	GEKA STYLE HOSE END CAP
55	1	20000021	ASSY,CABLE MOTOR 4KW
56	1	20000027	CORD POWER 50FT 4 CORE
57	1	20000033	SDCKET,ALTEC 3PH-220V
58	1	20000049	REMOTE, WIRED-P/D-25
59	1	30000029	COUPLER,35MM-CAMLOCK-FMALE-1 1/2"
60	1	60010139	ASSY WATER HOSE-COMPLETE-MP-25
61	1	44010015	KEY,SPECIAL, DRIVE DOG 35 DIA SHAFT
62	1	10000005	SCREW,SET 1/4-20x1/4"
63	1	10000099	SCREW.SET 1/4-28-1/2LNG
00	1	40000033	□-RING,0.139"×4.012"□D-BUNA-N
64	1		
	4	10000002	DOWEL, SEAL RETAINER
64		10000002	DDWEL, SEAL RETAINER PIN,LINCH 3/16×1-1/8×1-3/8SHK
64 65	4		
64 65 66	4	10000086	PIN,LINCH 3/16×1-1/8×1-3/8SHK
64 65 66 67 68	4 2 6	10000086 10000019	PIN,LINCH 3/16x1-1/8x1-3/8SHK WASHER,AXLE 5/8*-1.313*X0.093*
64 65 66 67 68 69	4 2 6 1	10000086 10000019 60010140 60010144	PIN,LINCH 3/16x1-1/8x1-3/8SHK WASHER,AXLE 5/8"-1.313"X0.093" TESTER,WATER PRESS - 35MM-MALE-600PSI ASSY,FAN DUCT MP-25
64 65 66 67 68 69 70	4 2 6 1 1	10000086 10000019 60010140 60010144 20000056	PIN,LINCH 3/16x1-1/8x1-3/8SHK WASHER,AXLE 5/8*-1.313*X0.093* TESTER,WATER PRESS - 35MM-MALE-600PSI ASSY,FAN DUCT MP-25 PUMP,WATER 220V - 3PH 0.33kW
64 65 66 67 68 69 70	4 2 6 1 1 1 2	10000086 10000019 60010140 60010144 20000056 30000108	PIN,LINCH 3/16x1-1/8x1-3/8SHK WASHER,AXLE 5/8'-1.313'X0.093' TESTER,WATER PRESS - 35MM-MALE-600PSI ASSY,FAN DUCT MP-25 PUMP,WATER 220V - 3PH 0.33kW NIPPLE I' NPT - 1 1/2' LNG SCH 40
64 65 66 67 68 69 70 71	4 2 6 1 1 1 2	10000086 10000019 60010140 60010144 20000056 30000108 60010147	PIN,LINCH 3/16x1-1/8x1-3/8SHK WASHER,AXLE 5/8'-1.313'X0.093' TESTER,WATER PRESS - 35MM-MALE-600PSI ASSY,FAN DUCT MP-25 PUMP,WATER 220V - 3PH 0.33kW NIPPLE 1' NPT - 1 1/2' LNG SCH 40 ASSY,PUMP HOSE COMPLETE MP-25
64 65 66 67 68 69 70 71 72 73	4 2 6 1 1 1 2 1 2	10000086 10000019 60010140 60010144 20000056 30000108 60010147 40000010	PIN,LINCH 3/16x1-1/8x1-3/8SHK WASHER,AXLE 5/8"-1.313"X0.093" TESTER,WATER PRESS - 35MM-MALE-600PSI ASSY,FAN DUCT MP-25 PUMP,WATER 220V - 3PH 0.33kW NIPPLE 1" NPT - 1 1/2" LNG SCH 40 ASSY,PUMP HOSE COMPLETE MP-25 GEKA STYLE FITTING 1" NPT FEMALE
64 65 66 67 68 69 70 71 72 73	4 2 6 1 1 1 2 1 2	10000086 10000019 60010140 60010144 20000056 30000108 60010147 40000010 40000029	PIN,LINCH 3/16x1-1/8x1-3/8SHK WASHER,AXLE 5/8*-1.313*X0.093* TESTER,WATER PRESS - 35MM-MALE-600PSI ASSY,FAN DUCT MP-25 PUMP,WATER 220V - 3PH 0.33kW NIPPLE 1* NPT - 1 1/2* LNG SCH 40 ASSY,PUMP HOSE COMPLETE MP-25 GEKA STYLE FITTING 1* NPT FEMALE GEKA STYLE HOSE TAIL 3/4* HOSE
64 65 66 67 68 69 70 71 72 73 74	4 2 6 1 1 1 2 1 2 1	10000086 10000019 60010140 60010144 20000056 30000108 60010147 40000010 40000029 30000109	PIN,LINCH 3/16x1-1/8x1-3/8SHK WASHER,AXLE 5/8"-1.313" X0.093" TESTER,WATER PRESS - 35MM-MALE-600PSI ASSY,FAN DUCT MP-25 PUMP,WATER 220V - 3PH 0.33kW NIPPLE 1" NPT - 1 1/2" LNG SCH 40 ASSY,PUMP HISE COMPLETE MP-25 GEKA STYLE FITTING 1" NPT FEMALE GEKA STYLE HOSE TAIL 3/4" HOSE STRAINER,WASHER-1" NPT-60/50MESH
64 65 66 67 68 69 70 71 72 73 74 75	4 2 6 1 1 2 1 2 1 2 1 1	10000086 10000019 60010140 60010144 20000056 30000108 60010147 40000010 4000029 30000109 44010287	PIN,LINCH 3/16x1-1/8x1-3/8SHK WASHER,AXLE 5/8"-1.313"X0.093" TESTER,WATER PRESS - 35MM-MALE-600PSI ASSY,FAN DUCT MP-25 PUMP,WATER 220V - 3PH 0.33kW NIPPLE 1" NPT - 1 1/2" LNG SCH 40 ASSY,PUMP HOSE COMPLETE MP-25 GEKA STYLE FITTING 1" NPT FEMALE GEKA STYLE HOSE TAIL 3/4" HOSE STRAINER,WASHER-1" NPT-60/50MESH BRACKET,HOSE MP-25
64 65 66 67 68 69 70 71 72 73 74 75 76	4 2 6 1 1 1 2 1 2 1 1 1 1 4	10000086 10000019 60010140 60010144 20000056 30000108 60010147 40000010 40000029 30000109 44010287 10000023	PIN,LINCH 3/16x1-1/8x1-3/8SHK WASHER,AXLE 5/8"-1.313"X0.093" TESTER,WATER PRESS - 35MM-MALE-600PSI ASSY,FAN DUCT MP-25 PUMP,WATER 220V - 3PH 0.33kW NIPPLE 1" NPT - 1 1/2" LNG SCH 40 ASSY,PUMP HOSE COMPLETE MP-25 GEKA STYLE FITTING 1" NPT FEMALE GEKA STYLE HOSE TAIL 3/4" HOSE STRAINER,WASHER-1" NPT-60/50MESH BRACKET,HOSE MP-25 BOLT, HEX 1/4-20UNCx1"
64 65 66 67 68 69 70 71 72 73 74 75	4 2 6 1 1 2 1 2 1 2 1 1	10000086 10000019 60010140 60010144 20000056 30000108 60010147 40000010 4000029 30000109 44010287	PIN,LINCH 3/16x1-1/8x1-3/8SHK WASHER,AXLE 5/8"-1.313"X0.093" TESTER,WATER PRESS - 35MM-MALE-600PSI ASSY,FAN DUCT MP-25 PUMP,WATER 220V - 3PH 0.33kW NIPPLE 1" NPT - 1 1/2" LNG SCH 40 ASSY,PUMP HOSE COMPLETE MP-25 GEKA STYLE FITTING 1" NPT FEMALE GEKA STYLE HOSE TAIL 3/4" HOSE STRAINER,WASHER-1" NPT-60/50MESH BRACKET,HOSE MP-25

Photographs of

30000039 D8-1.5 STATOR-ADJ-GREEN-INTCLAMP

30000040 D8-1.5 ROTOR



30000041 D6-3 STATOR-FIXED-ORANGE

30000042 D6-3 ROTOR



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30000043 D4-3 STATOR-FIXED-GREEN

30000044 D4-3 ROTOR



30000045 R8-1.5 STATOR-ADJ-BLACK-INTCLAMP\

30000046 R8-1.5 ROTOR



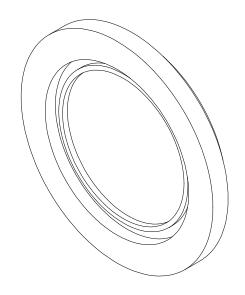
Page 12

Pump adapters

44010257- ADAPTER, PUMP 90MM-MP-25

(to suit "D" series rotors and stators)

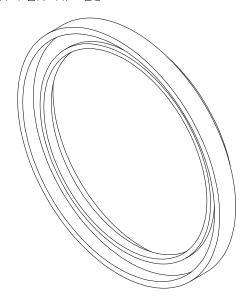
"D" PUMP ADAPTER FOR MP-25



44010258 - ADAPTER,PUMP 113.5MM-MP-25

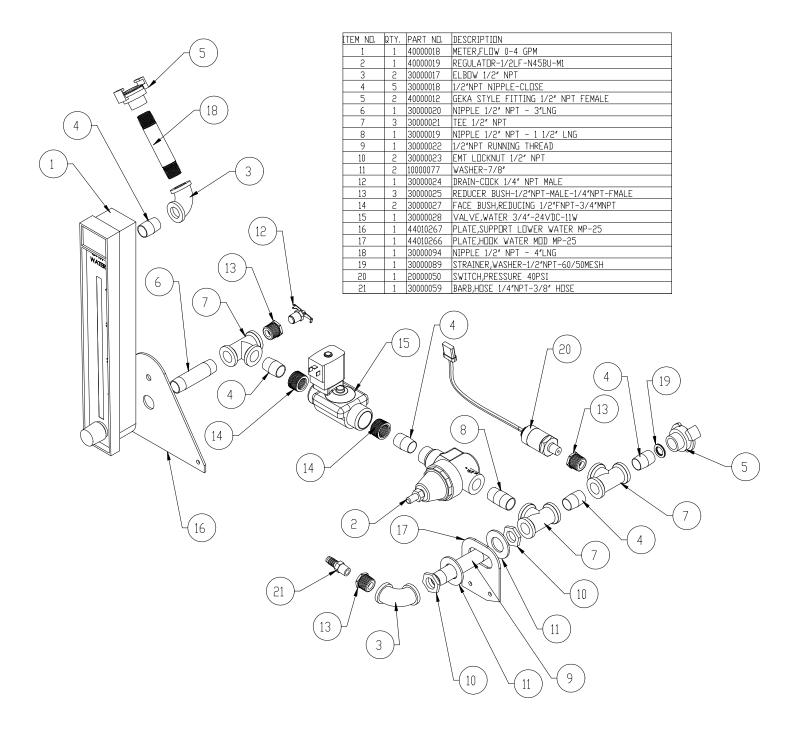
(to suit "R" series rotors and stators)

"R" PUMP ADAPTER FOR MP-25

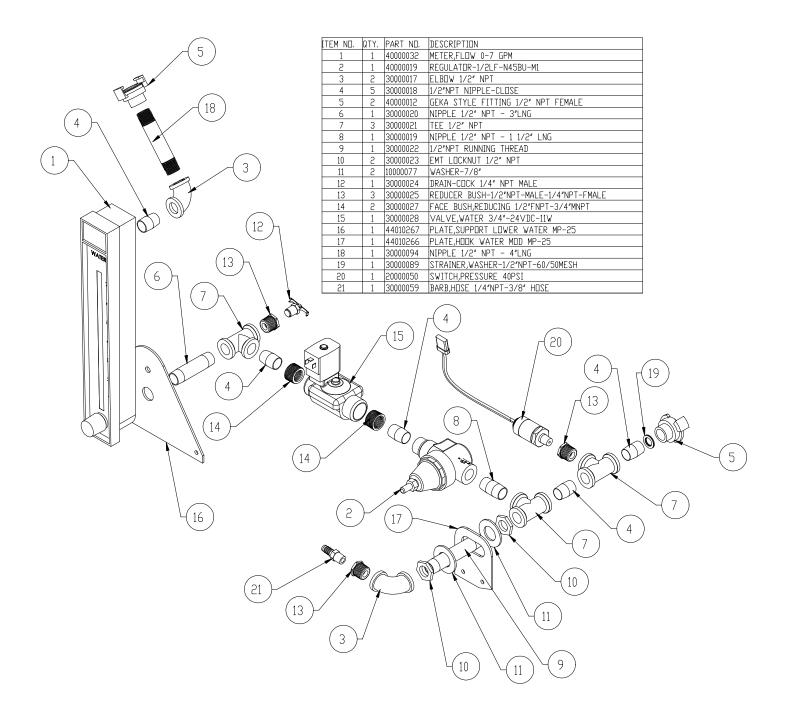


Water plate assemblies

60010136 ASSY,WATER CONTROL MP-25-4GPM

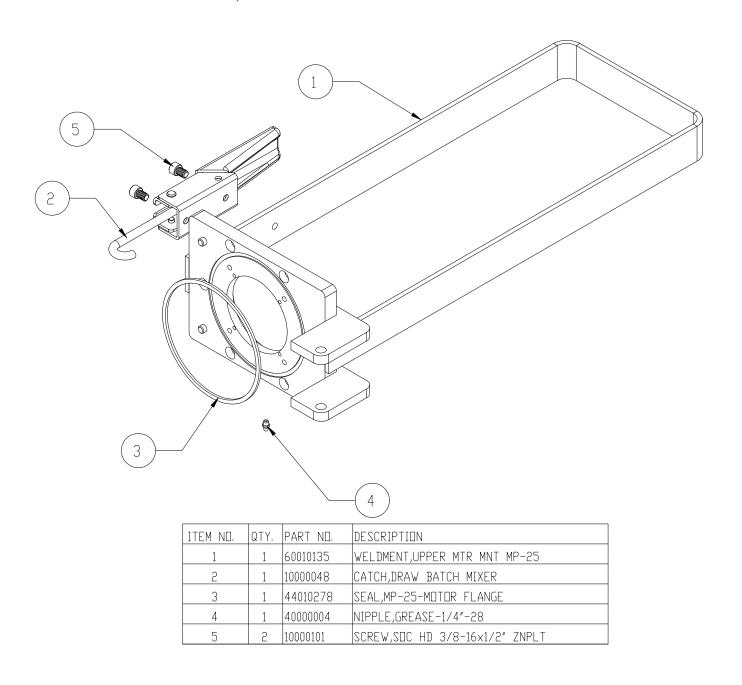


60010142 ASSY,WATER CONTROL MP-25-7GPM



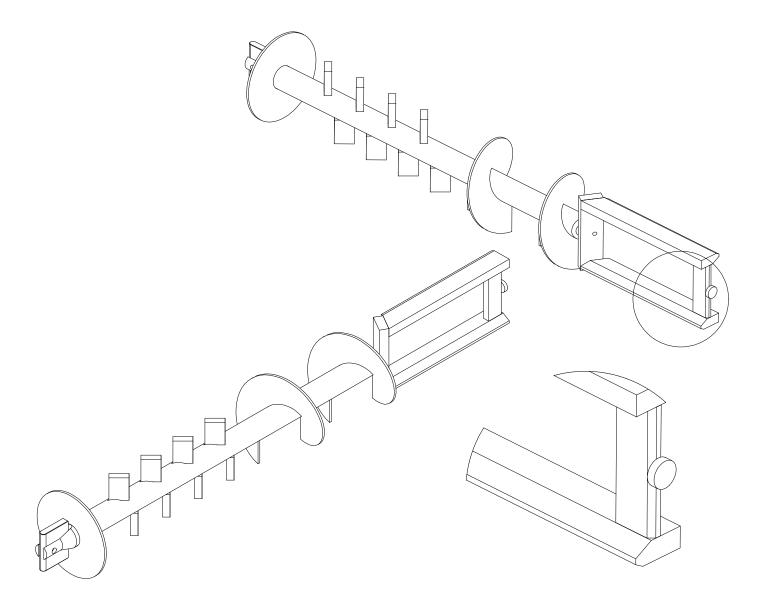
Motor mount

60010134 ASSY,UPPER MTR MNT MP-25

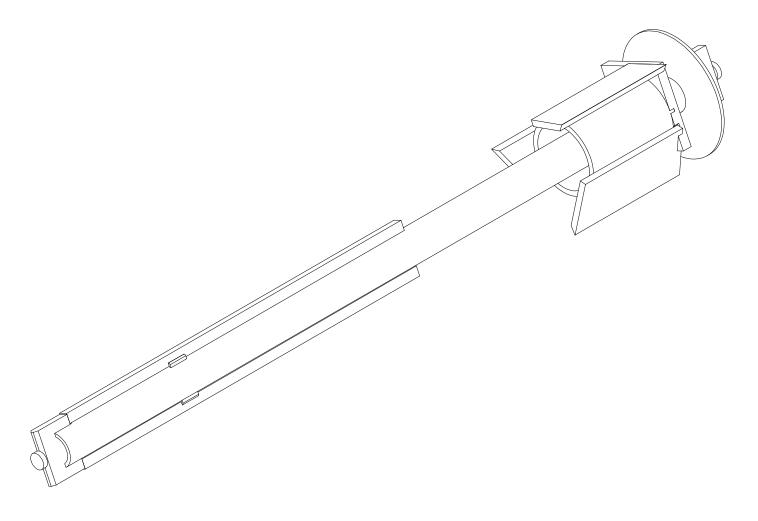


Mixing shaft complete, and clean out shaft complete

60010125 ASSY, DRIVE/MIX SHAFT MP-25

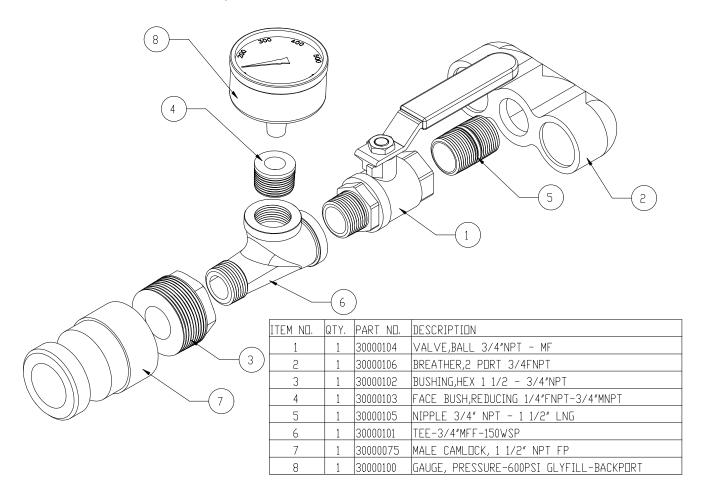


60010126 ASSY, SHAFT CLEAN OUT-MP-25

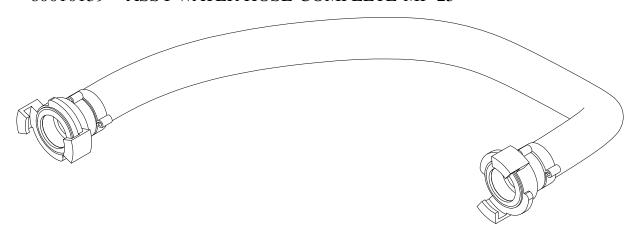


Water pressure tester, water hoses and fan duct

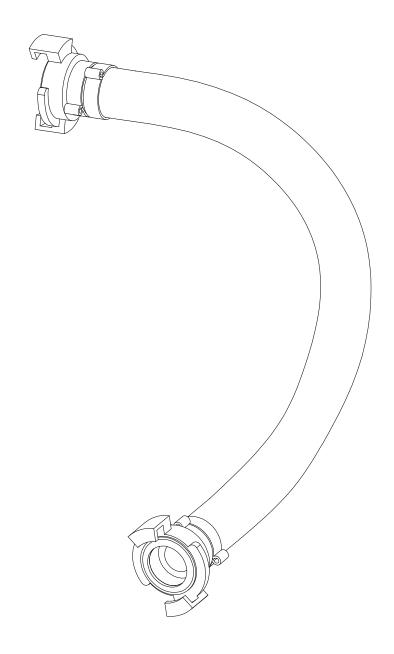
60010140 TESTER, WATER PRESS - 35MM-MALE-600PSI



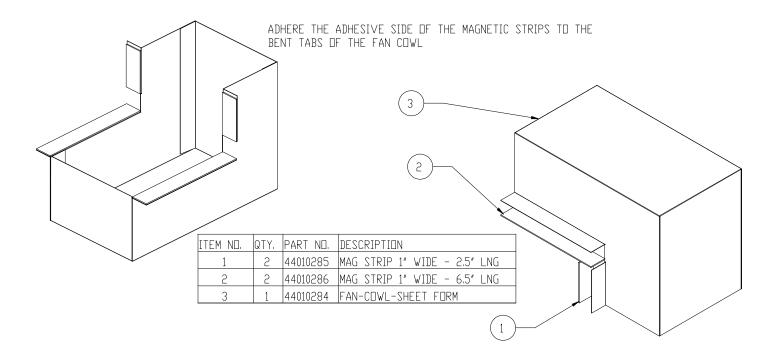
60010139 ASSY WATER HOSE-COMPLETE-MP-25



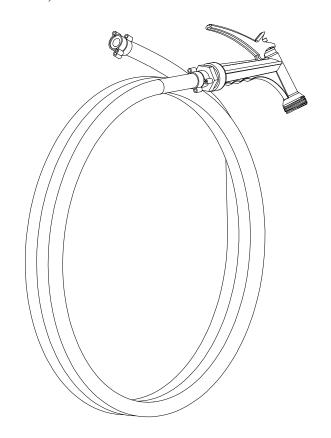
60010147 ASSY,PUMP HOSE COMPLETE MP-25



60010144 ASSY,FAN DUCT MP-25



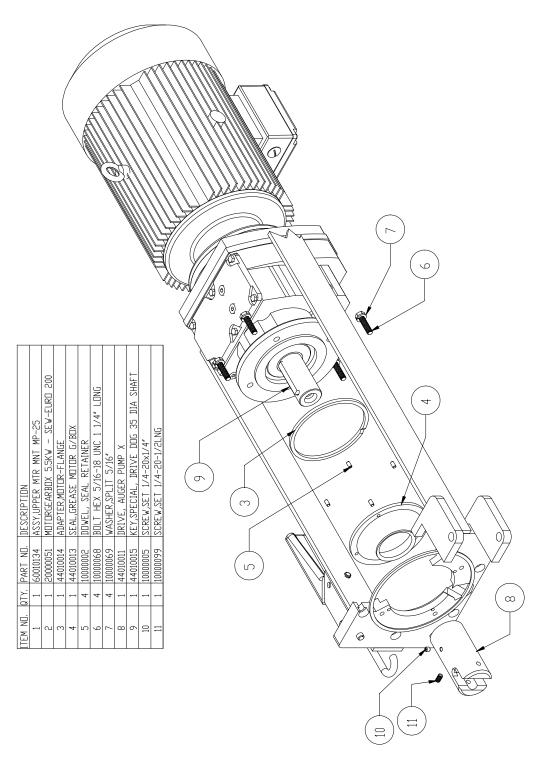
60010148 ASSY,WASHDOWN HOSE COMPLETE MP-25



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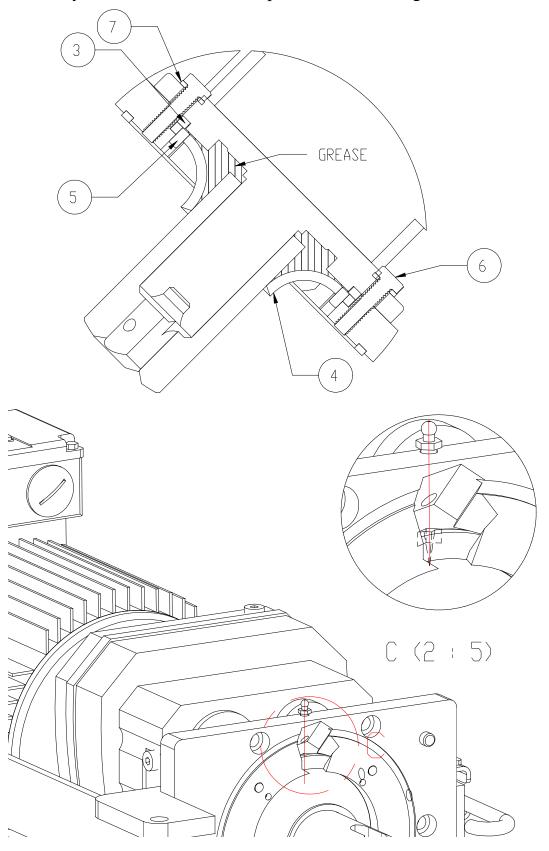
Electric Drive unit

Typical layout



Shown in cutaway view of upper motor mount. Unit must be greased on a daily / job-by-job basis.

Cutaway view of seal, dowel, adapter and shaft arrangement



Showing relationship between grooves in adaptor and seal, to allow grease to flow

Electronic Drive module – 20000046 / 47

Function

The drive module takes the input power via an isolator and breakers and supplies to the drive motor via an adjustable frequency phase inverter. Prior to the power being provided to the motor various addition functions have to be completed, such as water pressure signal, and remote present / bypassed. The module runs after a 2 second acceleration period at an operator selected speed chosen from three preconfigured options, when the "Start" button is pressed either on the panel or on the remote. The unit decelerates to zero RPM following the "stop" button being pressed on either the panel or the remote. Whenever the reverse switch is actuated, the unit will turn in reverse, either from stationary or from a forward running condition. Upon the unit turning in reverse, the water solenoid is de-energized, until forward motion is reselected.

Important note.

The control module is resistant to water splashes, ONLY when the fan cowl is fitted. Failure to keep the cowl in place allows water splashed under the machine top cover to enter into the box allowing contact with the internal electrical components and causing damage.

After each use and subsequent clean down, the module must be disconnected from the electrical supply, opened and the inside inspected for debris and / or water ingress. ALL water and debris must be removed immediately, using wipe clothes then compressed air.

The electronic Drive module comprises of a variable speed frequency inverter, allowing the use of 208 / 220 VAC two phase, on 60010120, or 208 / 220 VAC 3PH on the other models to run the high torque 3 Phase gear motor. The inverter unit is rated at 7.5 HP providing plenty of power to run the MP-25 unit.

The module is supplied with an input plug allowing immediate wiring into your own 220VAC 2 phase or 3 Phase (as applicable depending up on the model) supply (Must be carried out by an approved installer). The motor is supplied with a pre-wired plug that fits into the 3 Phase outlet of the drive module.

The module has a main power isolator, a combined stop / start switch, a spring loaded reverse switch, a speed control (three speed positions), a series of indicator lights, an inverter drive, internal breakers for each input phase, a water pump motor contactor, a water pressure switch relay, and a large capacity cooling fan, with removable shroud and filter enclosure, in addition to the fan fitted to the inverter, a water pump connection socket, a water pressure switch socket and a water solenoid socket, a remote socket providing the optional capability for remote operation.

Single-phase drive module

The Single-phase drive module, in addition to the previously mentioned items is equipped with an inverter error signal light, which illuminates if the inverter goes into overload for example.

The three phase unit has a phase detection module with prevents the power from coming on unless the phases are wired to run the unit in the correct direction. To correct the wiring there is a phase reversal switch on the front panel of the three phase units in place of the inverter error indicator on the single-phase unit.

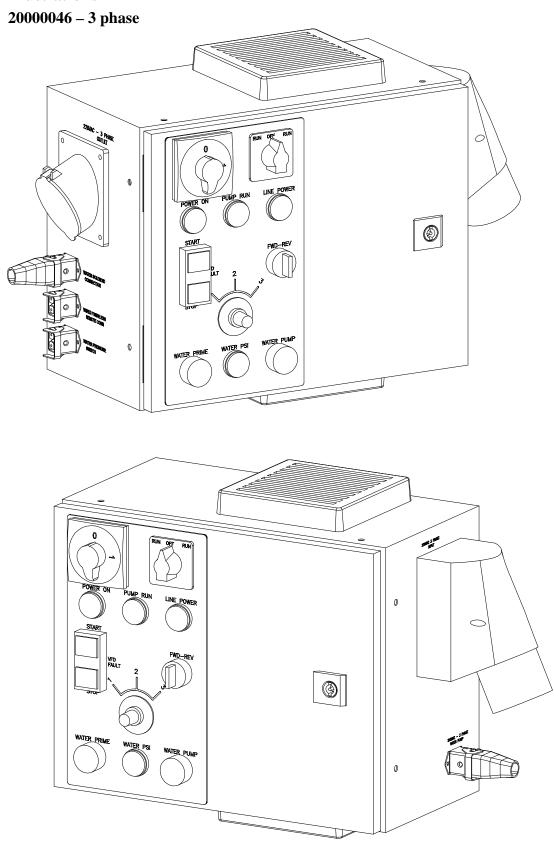
Fixed to the sides of the control module are a series of polarized plugs, each is color coded to suit the mating socket.

Each machine is equipped with a water pump, used as a booster pump to help ensure consistent water pressure, and as such the unit will not run unless the water pressure switch is closed. For maintenance the water pressure switch can be over ridden using the supplied "dummy" plug, attached to the side of the module.

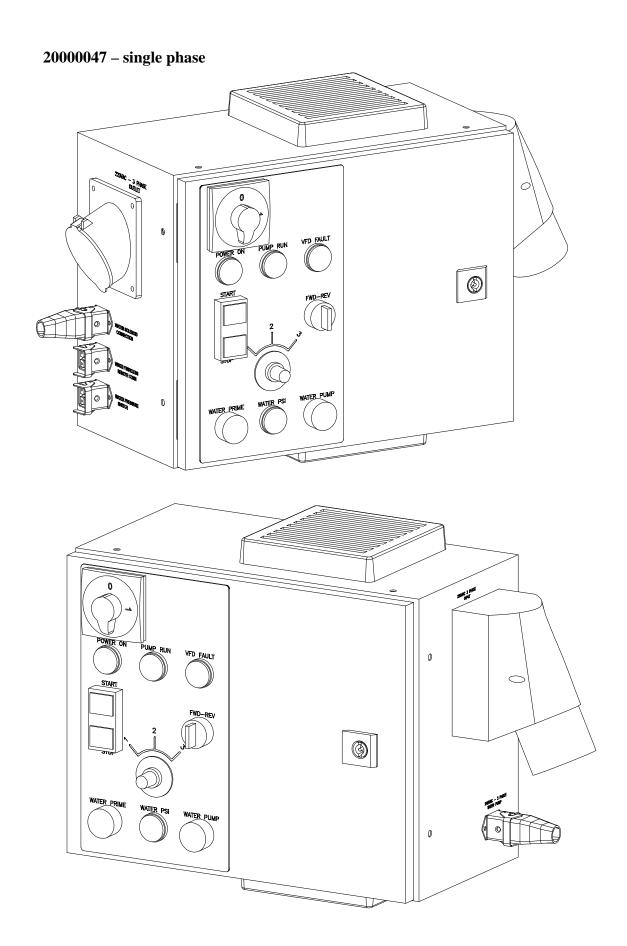
Each machine is equipped with a water supply module which is operated by a signal from the control module to open and close a solenoid valve which starts and stops the water flow.

Each machine is supplied with a wired remote pendant, allowing the operation of the machine from up to 10 feet from the connection. The remote provides stop / start functionality only. The machine will NOT run without either the remote being attached, or the remote "dummy" plug being attached, the "dummy" plug is attached to the side of the module and color coded similarly to the water pressure "dummy" plug

Illustrations

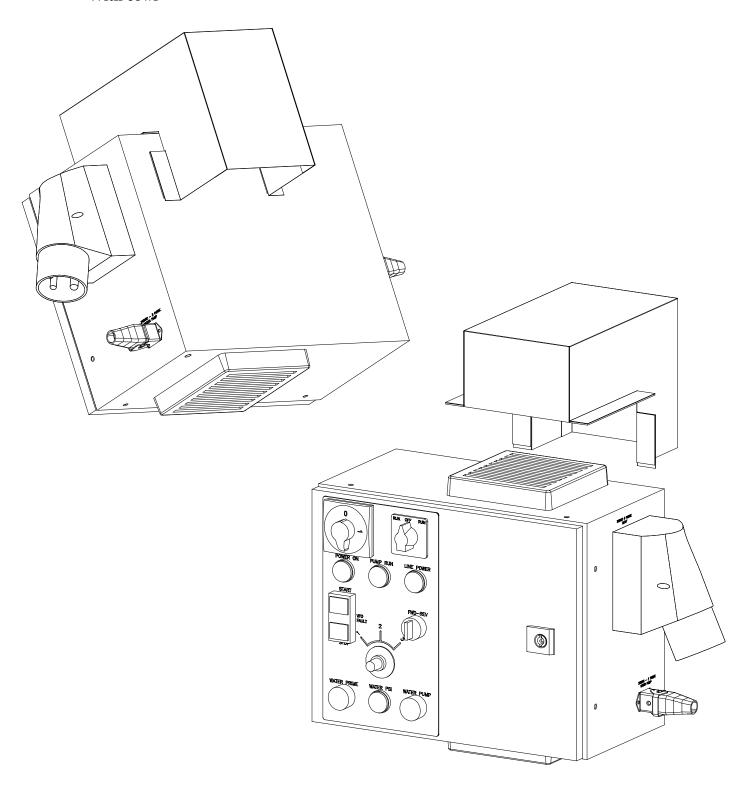


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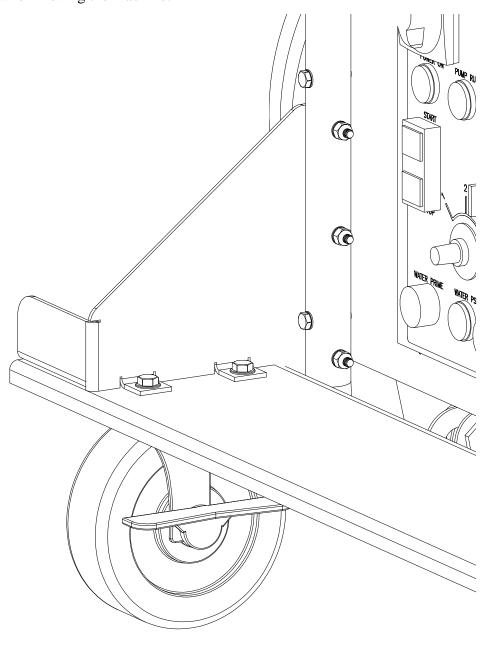
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With cowl

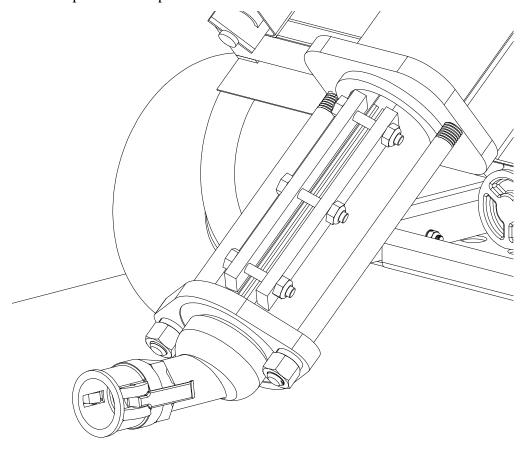


Section 3 – Transportation and positioning

The machine is typically manually transported around the job site using the two swivel casters at the rear of the machine to steer, with the larger wheels at the front. The machine can be picked up using a forklift, by simply inserting the forks under the base from the rear, and ensuring that they are close enough together to prevent damage to the casters. Each caster has a locking lever, which, when in the horizontal position the brake is OFF, and when angled in either direction are locked. Ensure that the locks are OFF when moving the machine.



Care must be taken when transporting the machine due to the minimal clearance between the output connector of the pump and the ground. As the unit is "pushed" the pump connector is the furthermost pint of the machine and thus prone to damage from impact with objects in front of the machine or from the ground itself. The machine must be "eased" up curbs or steps.



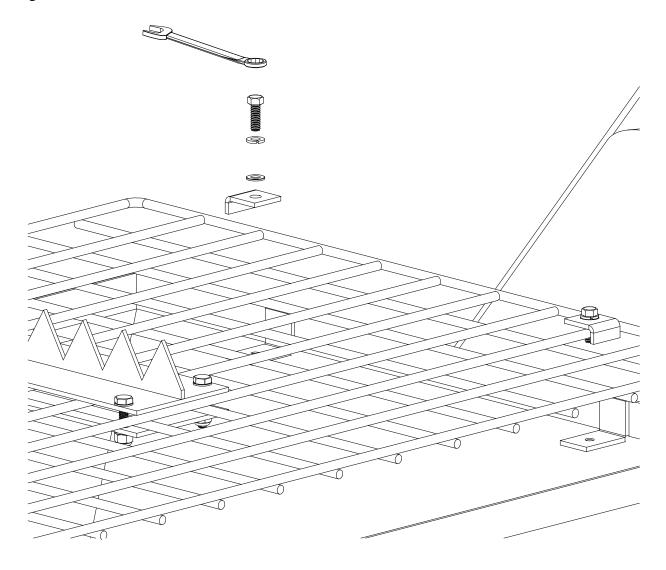
Once the machine has been positioned then the locks on the rear swivel casters should be set.

Pay consideration to water source, power and material locations when setting the machine in position. The site must be flat and level to ensure that the machine operates from a horizontal position.

Section 4 – Machine set up

Unpacking

Remove the safety grid from the top of the machine by removing the 4 bolts, clips and washers, using the provided 7/16" AF wrench . Keep all parts to be used to replace the grid later.

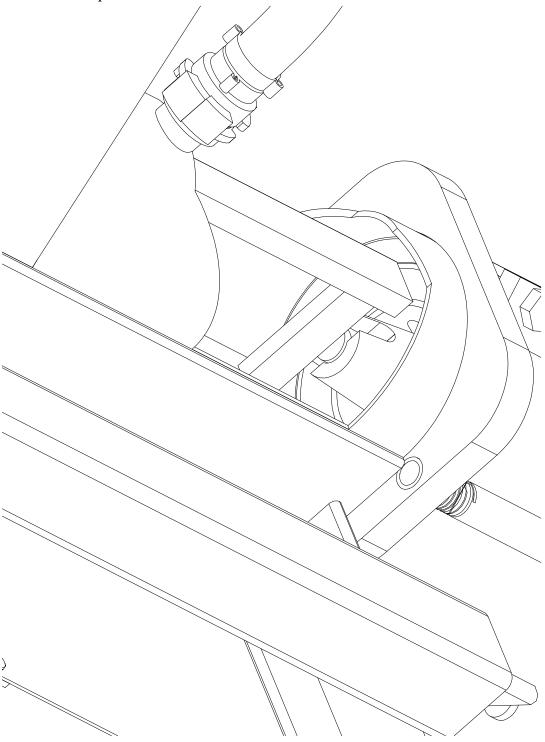


Remove all items from the hopper, excluding the mixing shaft, but including the pressure tester, the power cord and socket assembly, the Quality check sheet and user manual, and the wired remote. Check that the hopper inside is clear of all items except for the mixing shaft..

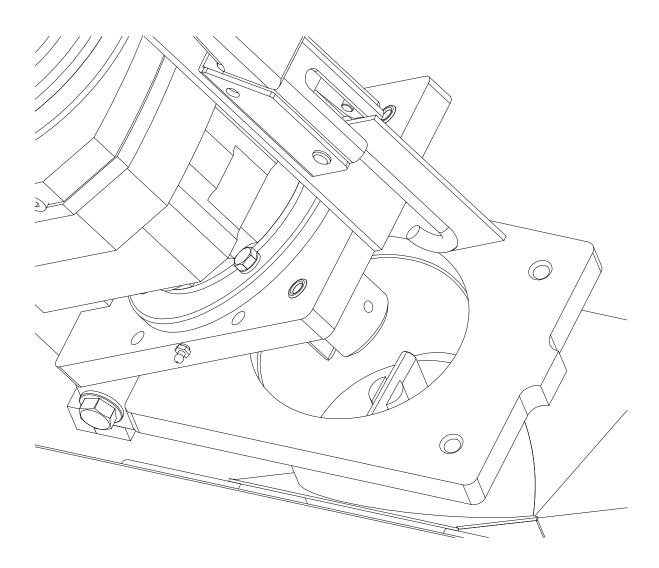
Consult the final inspection record supplied in the packing for details of your machine and the items checked prior to shipment. Keep this document for your records.

Machine assembly

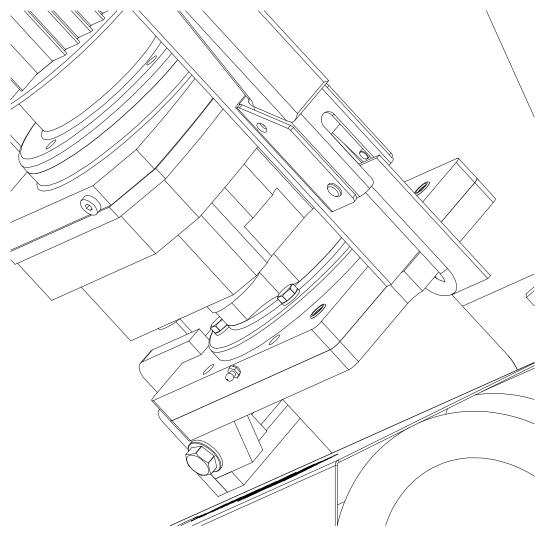
Ensure that the drive shaft is fully engaged in the rotor at the pumping end of the machine. It is essential that the round center guide be in the pilot hole of the rotor and that the lower spar be in the slot.



Rotate the motor output shaft and auger drive by hand, or a suitable lever until the flat end of the mixing shaft aligns with the slot in the end of the hauling bracket on the motor.



swing the motor assembly into position, checking that the shaft assembles into the slot in the auger drive, and that the location dowels on the motor assembly locate into the pilot holes in the hopper assembly. It maybe necessary to swing with some momentum to enable full closure, if the either the motor or the pump have recently moved position.



Note: the drive shaft will likely become tight between the two drive slots during static assembly. Once the unit has been running, the compressive force will be reduced or eliminated to within working limits. During pumping the compression will be present, during reverse the compression will be relieved.

If full closure cannot be achieved with reasonable force, then replace the safety grid with all fasteners in place and the clamp held shut as far as possible, then briefly "jog" the motor using the stop start switch and the water pressure bypass fitted, and the motor assembly will close to fully shut.

Important

Replace the safety grid back onto the top of the hopper and secure using the 4 clips, bolts and washers. Operation of this machinery without the grid in place is prohibited.

Electrical connections.

To be carried out by a licensed / qualified electrician.

- 1. Ensure that there are no power connections to the Electronic drive module.
- 2. Site the machine within 50 feet of the power source.
- 3. Obtain the power cord (supplied with the machine) 3 core for single-phase 220VAC and 4 core for 3 phase. The power source must be 208 -240VAC, and capable of supplying 30A on each leg / phase for single-phase machine and 45A plus for the 3 phase machines. Turn the breakers OFF in the power source distribution box, and remove it from the bus bars to ensure that no voltage exists on the cables.
- 4. Make the connection between the power cord and the main distribution box, using the supplied electric cord with plug and your power source. Ensure that the Earth is connected.
- 5. Connect the plug to the machine, and ensure that the drive module rotary isolator switch is turned OFF.
- 6. Replace the breakers into the distribution box, onto the bus bar and turn them ON.
- 7. Turn the machine's drive module isolator to ON, and listen for the cooling fan to turn on, and the "system power" light to illuminate. (when using the 3-phase machine, the unit will not power up until the correct phase selection is make, but changing the position of the "run off run" switch, which reverses the phases.)

Pre-run setting and test

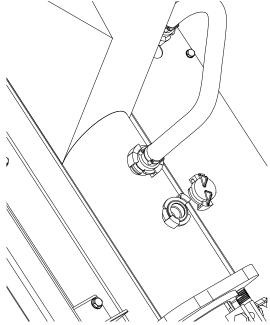
The following must be conducted by a supervisor or a qualified individual experienced in electro-mechanical equipment.

Ensure that there are no persons close to the machine.

Ensure that there are no obstructions in or around the machine.

Turn the speed selection knob to speed 1.

- 8. Attach a suitable water feed hose to the machine using the "Geka" style hose tail supplied, and turn the water on at the spigot.
- 9. Press the "water prime" button for a couple of seconds, to expel air from the hosepipe and to allow some water into the mixing chamber of the machine. (The lower plug can be removed and be used as a "level". Once water flow from the lower port, the prime button should be released and the port plug replaced.



- 10. Press the START button and observe the machine to turn the drive shaft and in turn the pump unit. PRESS THE STOP button,
- 11. Turn the direction switch from FWD to REV, and hold in position, as it is spring returned, to prevent excessive reverse running.
- 12. Press the start button and observe the machine to turn the drive shaft and in turn the pump unit, in reverse. PRESS THE STOP button within 5 seconds, or damage will result to the pump unit.

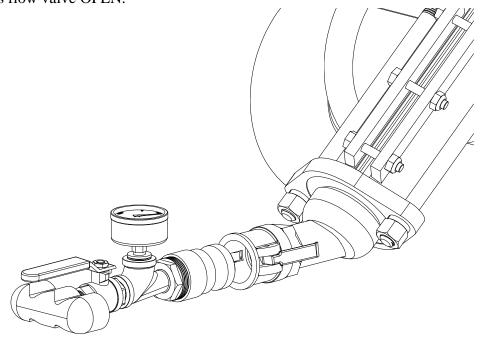
Note It maybe necessary to try reverse prior to forwards as this often take less power than forwards when initially breaking free a rotor unit.

13. The machine is now ready for use, by trained and qualified operators.

Section 5 – Machine operation / stator pressure setting

The following are to be completed by trained and experienced persons, familiar with the pumping system provided.

1. Connect the pressure tester to the output coupler on the end of the pump unit, with its flow valve OPEN.



- 2. Fill, up to the lower mixing chamber port of the MP-25 hopper with water using the prime button, and also set the flow meter flow to suit the your material. For this pressure calibration only add a couple of squirts of a suitable lubricant, such as dish soap.
- 3. Connect the pressure switch to the drive module.
- 4. Turn the water pump on by pressing the water pump button
- 5. Turn on the machine in the FWD direction and observe fluid to be displaced from the pump through the pressure tester.
- 6. Increase the speed of the machine to your chosen setting, and slowly close the valve on the pressure tester, and observe the pressure to increase. Adjust, if necessary the clamping force on the stator to achieve your chosen pumping pressure. Too much pressure will wear out your stator prematurely, too little will not give you your optimum output for the RPM chosen.

Keep the pump run time to a minimum during pressure setting to maintain the life of the stator.

- 7. Once the pressure has been set by adjusting, evenly, the bolts, stop the machine, open the pressure tester valve fully, and disconnect from the coupler.
- 8. Turn OFF the water pump.

NEVER allow the water pump to operate with no flow for more than 5 minutes as the water can become overheated and provide a hazard and or damage to the pump.

Ideal set up method, to be amended to suit your actual application.

The rotor stator pump is a positive displacement, progressive cavity pump, the positive displacement aspect being controlled by the clamping tension on the stator.

- 1. Adjust the stator to have minimal tension.
- 2. Place the desired length of hose on the pump unit, and elevate, if required to suit your actual discharge height, complete with any output device fitted.
- 3. Set your water flow rate to the recommended reading
- 4. Start the machine at your chosen speed with just water and a small amount of dish soap running through the machine.
- 5. Measure the flow of output at the discharge point
- 6. Progressively and evenly tighten the clamp on the stator until no more output is achieved.
- 7. Stop the machine.
- 8. Remove the output hose, and connect the pressure tester
- 9. Turn on the machine, close the pressure tester valve and note the pressure. This is the pressure you require to set the rotor stator to, to pump at your required rate.

Note. Actual material will typically produce higher pressures and lower flow rates, and will require some experimentation, but this method will provide a good approximation

Excessive clamping force just generates more heat more wear, higher energy consumption and a high potential damage in the event of a plugged hose, blockage or other emergency.

General notes for operation

- Grease auger drive seal daily, with water resistant, corrosion inhibited grease.
- For starting the pump, Ensure that the speed control is at selection 1.
- Turn main power switch on.
- Prime the mixing chamber with water.
- Start the water pump.
- Push start button, and prime the hoses and wet out the system while setting the water flow rate.
- Adjust speed to desired output.
- To stop machine push the stop button.
- If a hose plugs while pumping, reverse the direction on pump to relieve line pressure.
- Never point hose towards personnel when pump is working.
- Stop and clean the machine every 2 hours until experience is gained with your material.
- When cleaning the pump, do not remove grate while pump is running. Wash out hopper with water and let it run out of the hose. When the hopper and mixing chamber is clean, run foam balls through hose with clean water. Do not spray water on or in control box. Control box should be wiped down with a damp rag. Remove the mixing shaft and clean off ALL material
- If access is required in to the hopper, disconnect power source before removing grate. Motor can be "swung" out of the way, this facilitates easier final clean up.
- Mixing Pump is supplied with an adjustable stator. The sleeve can be tightened to bring working pressure back to normal range as the stator wears down. This should be done in small increments. Over tightening the stator will cause premature wear and heat up material.
- Always check hoses and cords for wear.
- If excessive material is allowed to build up the output of the machine will decrease, if cleaning with water does not remove all material from with the mixing chamber, then the clean out shaft should be employed. (See simple maintenance)
- The unit runs on high voltage and is capable of high pressures in the hoses.
- NEVER spray water under the machine under the fan shroud, or water will enter the drive module and damage the components is side

Section 6 – Simple maintenance

The MP-25 mixing pump unit is very simple to maintain.

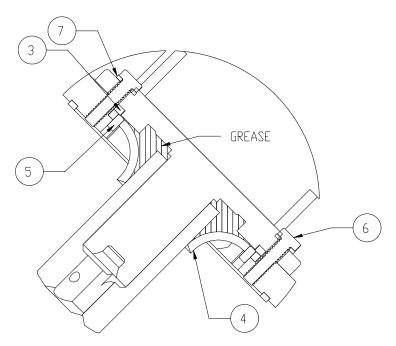
By far the biggest part of maintenance of the MP-25 machine is cleaning during and after a job. Failure to clean properly after use will damage seals, paint, and moving parts due to material build up causing wear.

Pay particular attention, when cleaning, to the material build up inside the mixing tube, around and on the mixing shaft. Pay attention to the seal around the auger drive / hauling bracket fixed to the drive shaft at the rear of the machine.

DO NOT spray water inside the fan shroud or direct the jet towards the shroud or water can get into the drive module and damage electrical parts.

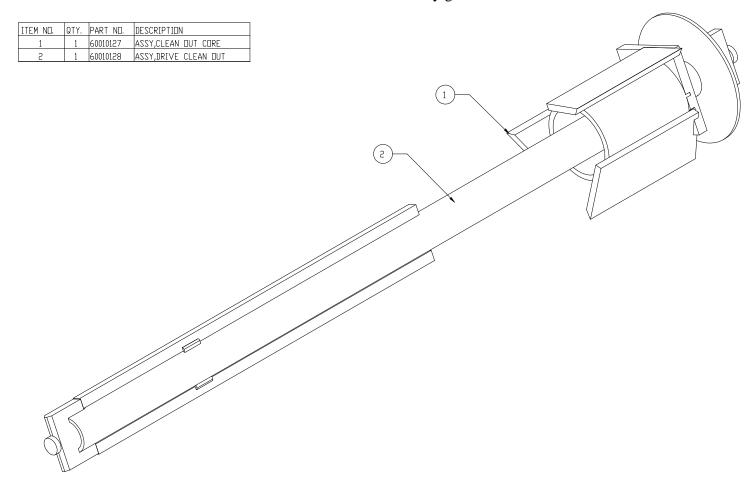
Prior each clean down, the drive module should be disconnected from the power. After each clean down the drive module should be opened, and ANY moisture or debris removed with a soft towel then compressed air. DO NOT blow the water or debris into the components.

Ensure that the seal between the hauling bracket and the motor is greased each day, with a water resistant, corrosion inhibiting grease. Grease until a small amount of grease can be seen "oozing" from around the hauling bracket. If there is grease in the seal then material cannot get in!



Clean out shaft - using

- 1. The clean out shaft should only be used in the event that normal cleaning practices do not remove all the material from the job.
- 2. The clean out shaft can cause significant damage if used incorrectly.
- 3. The clean out shaft is designed to be used on fresh material, that cannot be removed using normal wash down and manual means.
- 4. The clean out shaft will become damaged if trying to clean out fully cured and hardened material.
- 5. The clean out shaft is to be turned at the lowest speed, with plenty of running water, as any debris created will be passed through the stator and the water will minimize any damage.
- 6. The clean out shaft is loaded into the machine in the same manner as the mixing shaft. While the shaft is turning the cutter head will self-feed into the mixing chamber cleaning material form the sides as it descends. It will automatically stop feeding when it reaches the end of its travel, limited by two areas of weld on the shaft.
- 7. Do not use the clean out shaft without the safety grid fitted.



Section 7 – Notes on wear of rotor stator pump unit

Wear issues

Dry running of a rotor-stator pump

A screw pump can only work reliably if there is adequate and appropriate lubrication. The lubricant produces sliding friction between the rotor and the stator. If this lubricating film is damaged, high temperatures are reached and the elastomer wears within a very short time. Even if dry running lasts only a few seconds with new parts, the effect resembles that of a wheel spin on a car tire, dramatically affecting length of service.



LIMITED WARRANTY POLICY

Machine Technologies warrants each of its new machines to be free of defects in material and workmanship under normal use and services for a period of one (1) year from the date of delivery.

The warranty is issued ONLY to the INITIAL USER. The warranty period begins when the product is delivered to the initial user or when first put into service, whichever occurs first. Said warranty is void if the machine is subject to misuse, neglect, accident or abuse.

Machine Technologies' obligation under this warranty is limited to correcting without charge, at its warehouse, any parts or parts thereof which shall be returned to its warehouse, transportation/shipping prepaid and upon Machine Technologies' examination proves to have been originally defective. Correction of such defects by repair or replacement shall constitute fulfillment of all obligations to the initial user. This warranty does not include labor or transportation charges unless specifically identified and authorized in writing by Machine Technologies. Nor does the warranty apply to any unit upon which repairs or unauthorized alterations have been made.

The warranty does not apply to normal maintenance service or to normal replacement of certain machine parts which are subject to normal wear (including but not limited to pins, bushings, rotors, stators, hoses, spray caps, spray nozzles, mixing shafts, shaft couplings and connectors, dosing shafts, pump shafts, filter elements and tires).

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