

The image shows a construction site with several large industrial self-priming mud pumps. The pumps are made of heavy metal and are mounted on concrete bases. They are connected to a network of pipes and hoses. The scene is filled with construction materials, including bags of cement and piles of sand. The overall atmosphere is industrial and busy.

INDUSTRIAL SELF PRIMING MUD PUMPS

WASTEWATER SUBMERSIBLE PUMPS

TECHNICAL CONSTRUCTION

CUTTER

Head range-mtrs. : 4-22
Power rating : 1 to 2 HP
Discharge range-lpm : 400-20
Voltage range : 180-240 (1PH) 360-415 (3PH)
Pipe size : 50 mm

SEWAGE

Head range-mtrs. : 5-16
Power rating : 1 to 2 HP
Discharge range-lpm : 480-30
Voltage range : 180-240 (1PH) 360-415 (3PH)
Pipe size : 32 & 50 mm

MATERIAL OF CONSTRUCTION

Impeller : Cast iron
Casing : Cast iron
Motor body : SS
Pump shaft : SS 410
Rotor : Aluminium
Sealing : Double ended mech. seal

APPLICATIONS

- Drainage sewage water from hotels, houses, commercial buildings, complexes, hospitals, restaurants, etc.
- Pumping water in industries, pumping municipal sewage water & septic tanks.

FEATURES

- > SS body with heavy construction and shock proof
- > Motor is designed with self-cooling effect corrosion resistant stainless steel grade pump parts ensures longer life
- > Ss cutter designed yields fine solids for non-clogging operations
- > Non clogging impellers ensures free flow of solids size up to 35mm
- > All casting parts are CED coated
Efficient pumps with more energy savings
- > Prevention from dry run
- > Automatic on/off operation enabled by adjustable float switch (single phase only)
- > Double ended mechanical seal
- > Fitted with thermal overload protector



X-PEL C
1 Phase



X-PEL C
3 Phase



X-PEL S
1 Phase



X-PEL S
3 Phase



PERFORMANCE CHART FOR SEWAGE PUMP

KOEL model name	KOEL Part No	HP	Phase	Voltage range(V)	Delivery size	Max. Solid handling size (mm)	Starting method	Head range-Mtrs.	Head in mtr	5	6	7	8				
X-PEL S 051	ESP.3232.05.01.FS	0.5	1	180-240	32mm	20	CSR	5-8	Flow in LPM	95	75	55	30				
										4	6	8	10	12	14	16	
X-PEL S 101	ESP.5050.01.01.FS	1	1	180-240	50mm	35	CSR	4-10	Flow in LPM	330	240	150	80				
X-PEL S 103	ESP.5050.01.03.00	1	3	360-415	50mm	35	DOL	4-10		330	240	150	80				
X-PEL S 201	ESP.5050.02.01.FS	2	1	180-240	50mm	35	CSR	4-16		480	420	360	280	190	120	50	
X-PEL S 203	ESP.5050.02.03.00	2	3	360-415	50mm	35	DOL	4-16		480	420	360	280	190	120	50	

PERFORMANCE CHART FOR CUTTER PUMP

KOEL Model Name	KOEL Part No	HP	Phase	Voltage Range (V)	Delivery size	Max solid handling size (mm)	Starting method	Head range-Mtrs.	Head in mtr	2	4	6	8	10	12	14	16	18	20	22
X-PEL C 101	ECP.5050.01.01.FS	1	1	180-240	50mm		CSR	4-16	Flow in LPM		350	300	250	200	150	100	50			
X-PEL C 103	ECP.5050.01.03.00	1	3	360-415	50mm		DOL	4-16		350	300	250	200	150	100	50				
X-PEL C 201	ECP.5050.02.01.FS	2	1	180-240	50mm		CSR	4-22		400	350	300	260	220	180	140	100	60	20	
X-PEL C 203	ECP.5050.02.03.00	2	3	360-415	50mm		DOL	4-22		400	350	300	260	220	180	140	100	60	20	
X-PEL C 503	ECP.7575.3.5.00	5	3	350-440	75mm	35	DOL	2-14		950	880	800	630	450	280	90				
X-PEL C 703	ECP.1010.3.7P5.00	7.5	3	350-440	100mm	50	DOL	2-18		1250	1200	1150	1050	900	750	450	350	160		

SELF PRIMING MUD PUMPS

TECHNICAL DETAILS

Types	: Bare shaft pumps (Gland & Seal type) Motor coupled pump sets (Gland & seal type) Engine coupled pump sets (Gland & Seal type) Monoblock pump sets (Gland & Seal type)
Motor HP (kw)	: 1.00 (0.75) to 25.00 (18.70)
Pipe size (mm)	: 40 X 40 to 150 X 150
Speed (rpm)	: 1440 & 2800
Head (Mtrs)	: Up to 44
Discharge (lps)	: Up to 71
Solid handling size (mm)	: Up to 40

MATERIAL OF CONSTRUCTION

REGULAR SUPPLY

Pump / motor body	: C. I. Gr. FG 200
Impeller	: C. I. Gr. FG 200
Wear plate	: C. I. Gr. FG 200
Impeller ring	: C. I. Gr. FG 200
Shaft	: SS-410
Shaft sleeve	: SS-410
Stamping	: CRNGO, M-45 Grade
Sealing	: Gland / Mechanical seal

OPTIONAL SUPPLY

Body	: SS 316 - (02 TO 7.5 HP)
Impeller	: SS-304 (CF 8) / SS-316 (CF 8M) / Bronze
Impeller ring	: SS-304 (CF 8) / SS-316 (CF 8M) / Bronze
Wear plate	: SS-304 (CF 8) / SS-316 (CF 8M) / Bronze
Shaft	: SS-304 (CF 8) / SS-316 (CF 8M) / 410 for All monoblock
Shaft sleeve	: SS-304 (CF 8) / SS-316 (CF 8M)
Gland packing	: Teflone

APPLICATIONS

Marine

- Loading and unloading, bilge pumping, washing, fire fighting, stripping, sanitary duty and circulation.

Construction industry

- Dewatering excavation, canals or ponds, ground water dewatering with well point system or drains, water supply from wells or canals, hosing down concrete castings.

Agriculture

- Surface irrigation, liquid manure oxygenation, transfer and spraying liquid manure or fertilizers, distribution of liquid animal feed, transfer of must, washing.

Industry

- Transfer of clean or dirty neutral, acid or alkali liquids containing sand, mud or solids in suspension, clean or dirty low viscosity petroleum product or solvents, milk of lime, caustic soda.
- Washing, cooling, circulation, smoke scrubbing, emergency duty.
- Pumping light chemical, sewage, ash water.

- Tiles, marble & ceramic factories, effluent plants.
- Industries for clear water handling at high pressures.

Mobile machinery

- Cooling water for marine engines and shovels.
- Any application where priming is to be avoided

Waste treatment

- Pumping polluted, hot or corrosive waste water containing sand, mud or solids in suspension, dosing neutralizing liquids, pumping out settled sludge.

Public utilities

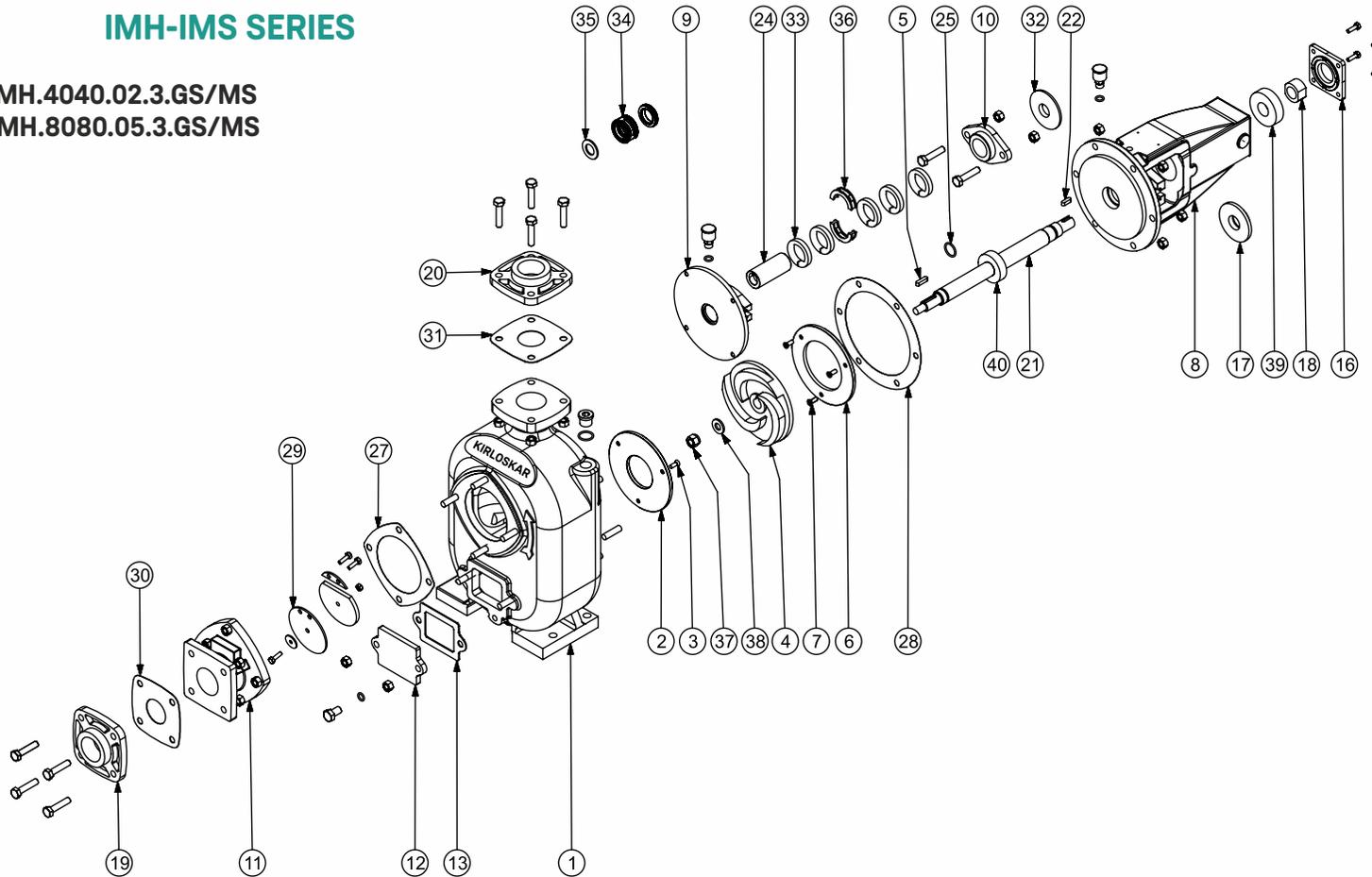
- For pumping muddy water, sewage, polluted liquids, solid and in swimming pool.
- Dewatering basements, trenches and construction sites.
- Dewatering from basements, multi storey, shopping malls, godowns etc.
- Flood drainage, sewage pumping, fire fighting and recovery of dangerous liquids.



EXPLODED VIEW

IMH-IMS SERIES

IMH.4040.01.3.GS/MS - IMH.4040.02.3.GS/MS
 IMH.5050.03.3.GS/MS - IMH.8080.05.3.GS/MS
 IMH.8080.75.3.GS/MS



PART NO.	PART NAME
1	PUMP BODY
2	WEARING PLATE
3	COUNTER SUNK SCREW FOR WEARING PLATE
4	IMPELLER
5	KEY FOR IMPELLER
6	IMPELLER RING
7	COUNTER SUNK SCREW FOR IMPELLER RING
8	BERING HOUSING
9	STUFFING HOUSING
10	GLAND BLUSH

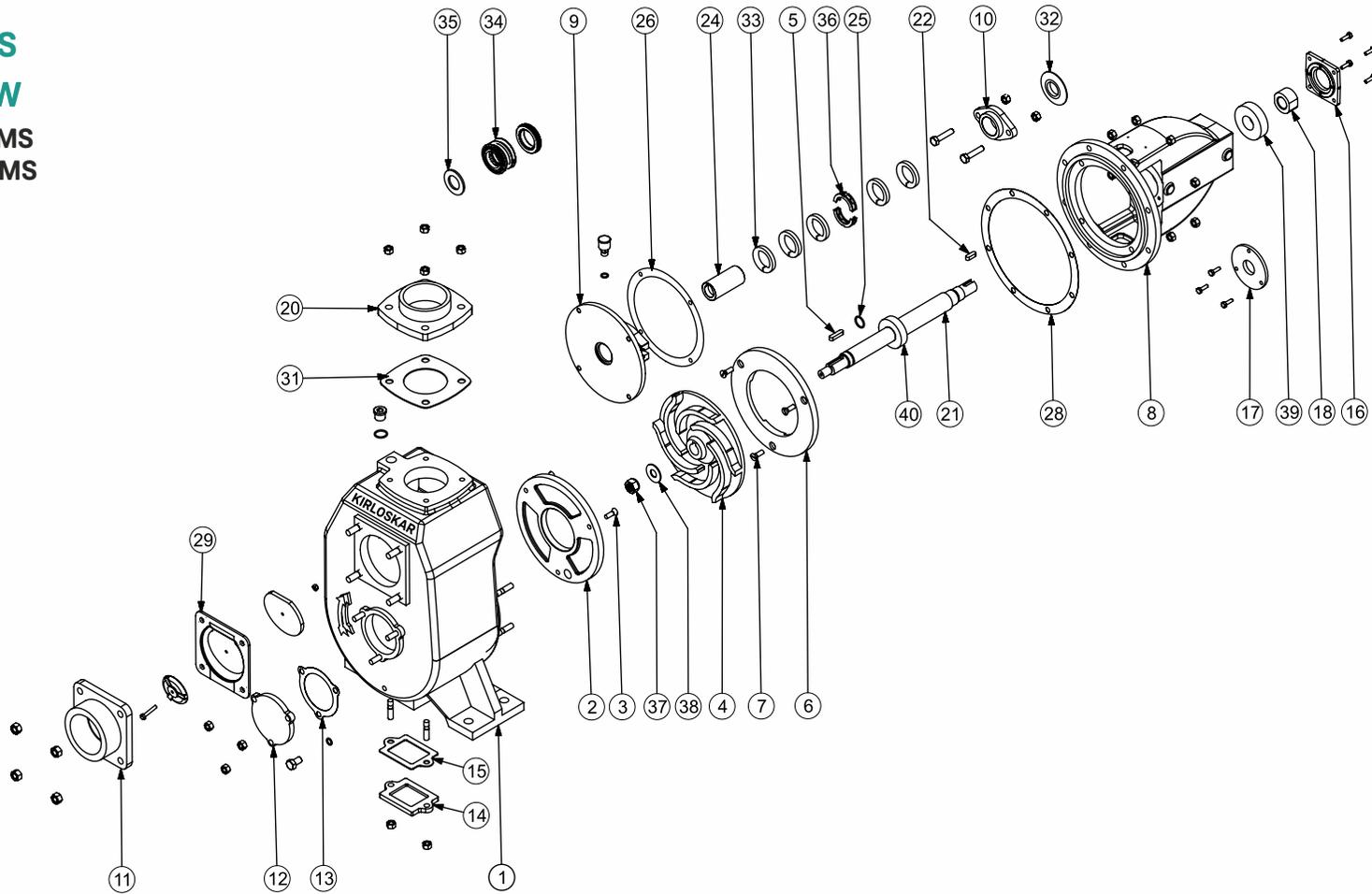
PART NO.	PART NAME
11	SUCTION HOUSING
12	INSPECTION WINDOW COVER
13	RUBBER OR PAPER PACKING FOR INSPECTION WINDOW COVER
14	DRAINAGE WINDOW COVER
15	RUBBER OR PAPER PACKING FOR INSPECTION WINDOW COVER
16	BEARING COVER DRIVE END SIDE
17	BEARING COVER NON DRIVE END SIDE
18	BEARING LOCK NUT
19	PIPE FLANGE SUCTION SIDE
20	PIPE FLANGE DELIVERY SIDE

PART NO.	PART NAME
21	PUMP SHAFT
22	KEY FOR COUPLING
23	SHAFT SLEEVE
24	O RING FOR SHAFT SLEEVE
25	PAPER PACKING FOR STUFFING HOUSING
26	PAPER PACKING FOR SUCTION HOUSING
27	PAPER PACKING FOR BEARING HOUSING
28	FLAP VALVE
29	RUBBER PACKING FOR SUCTION SIDE
30	RUBBER PACKING FOR DELIVERY SIDE

PART NO.	PART NAME
31	WATER DEFLECTOR
32	GLAND PACKING
33	MECHANICAL SEAL
34	MECHANICAL SEAL WASHER
35	LANTERN RING
36	NYLON LOCK NUT
37	BEARING DRIVE END SIDE
38	BEARING NON DRIVE END SIDE

IMH-IMS SERIES EXPLODED VIEW

IMH.8080.12.3.GS/MS
IMH.8080.05.3.GS/MS



PART NO.	PART NAME
1	PUMP BODY
2	WEARING PLATE
3	COUNTER SUNK SCREW FOR WEARING PLATE
4	IMPELLER
5	KEY FOR IMPELLER
6	IMPELLER RING
7	COUNTER SUNK SCREW FOR IMPELLER RING
8	BERING HOUSING
9	STUFFING HOUSING
10	GLAND BLUSH

PART NO.	PART NAME
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18	BEARING LOCK NUT
19	PIPE FLANGE SUCTION SIDE
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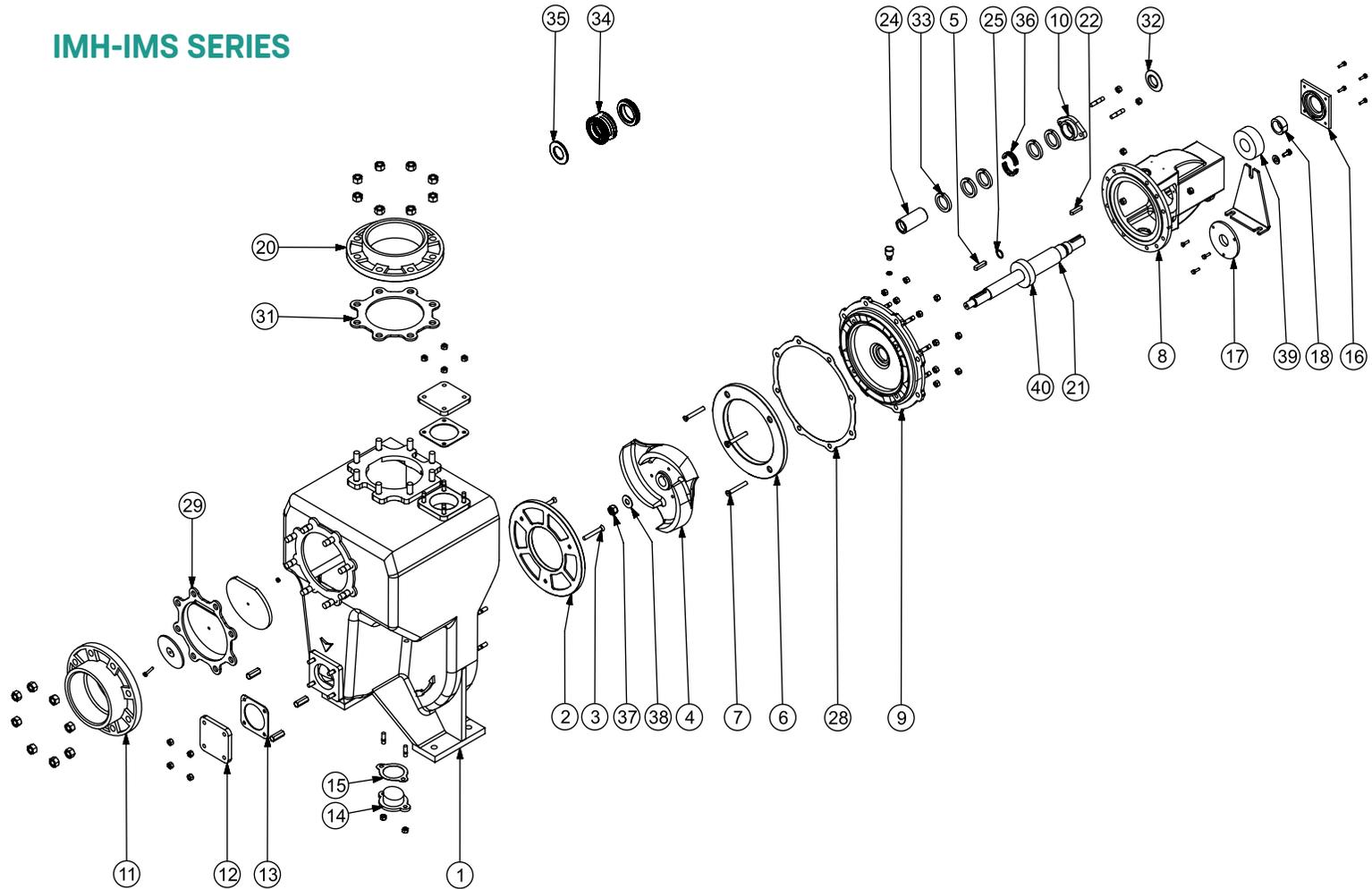
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24	O RING FOR SHAFT SLEEVE
25	PAPER PACKING FOR STUFFING HOUSING
26	PAPER PACKING FOR SUCTION HOUSING
27	PAPER PACKING FOR BEARING HOUSING
28	FLAP VALVE
29	RUBBER PACKING FOR SUCTION SIDE
30	RUBBER PACKING FOR DELIVERY SIDE

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36	NYLON LOCK NUT
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38	BEARING NON DRIVE END SIDE

EXPLODED VIEW

IMH.1010.10.3.GS/MS
 IMH.1010.12.3.GS/MS
 IMH.1515.20.3.GS/MS
 IMH.1515.25.3.GS/MS

IMH-IMS SERIES



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9	STUFFING HOUSING
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PART NO.	PART NAME
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14	DRAINAGE WINDOW COVER
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26	PAPER PACKING FOR SUCTION HOUSING
27	PAPER PACKING FOR BEARING HOUSING
28	FLAP VALVE
29	RUBBER PACKING FOR SUCTION SIDE
30	RUBBER PACKING FOR DELIVERY SIDE

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SELF PRIMING MUD MONOBLOCK PUMP

INDUSTRIAL MONOBLOCK PUMP WITH GLAND SEAL / MECHANICAL SEAL



Pump selection guide	IM	S/H	4040	M	01	01-03	MS / GS
Code description	Industrial mud pump	Slow speed-1440 rpm High speed-2800 rpm	Pipe size (mm) Suc x Del	Monoblock	HP	PHASE	Mech. Seal / Gland Seal

Sr. No.	KOEL Model	Motor (HP)	PHASE	Pipe Size (mm) Suc X Del	Speed (rpm)	Solid handling size (mm)	Head - (Mtrs.)	10	12	14	16	18	20	22	24	26	28	30	32	34	36	
1	IMH.4040M.01.1.GS	1	1	40X40	2800	7	Disc. LPS	4.0	3.4	2.4	1.0											
2	IMH.4040M.01.3.GS	1	3	40X40	2800	8.5		4.0	3.4	2.4	1.0											
3	IMH.4040M.02.3.GS	2	3	40X40	2800	10.5			5.5	4.5	3.3	2.1	0.6									
4	IMH.5050M.03.3.GS	3	3	50x50	2800	7			9.0	8.8	7.6	6.3	4.9	3.0								
5	IMH.8080M.05.3.GS	5	3	80x80	2800	14.5							8.3	7.5	6.0	5.0	3.8	2.5	1.3			
6	IMH.8080M.75.3.GS	7.5	3	80x80	2800	14.5							14.0	13.5	12.5	10.8	9.2	7.3	5.5	3.3	1.6	
7	IMS.8080M.05.3.GS	5	3	80x80	1400	15.5			18.3	16.0	14.0	10.8	6.5	2.0								

SELF PRIMING MINI MUD MONOBLOCK PUMP

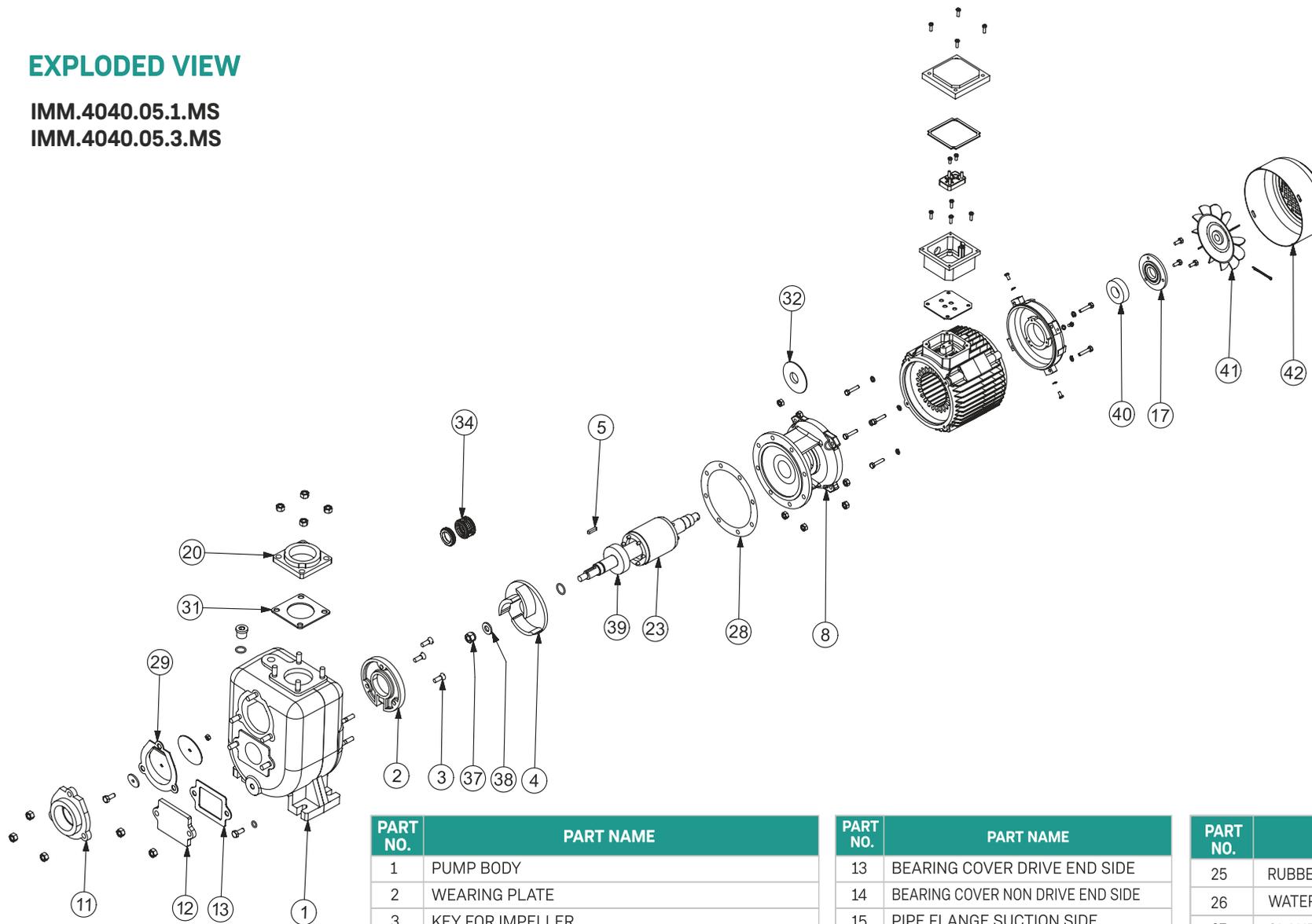


Pump selection guide	IMM	4040	05	1	MS
Code description	Industrial Mini Mud	Pipe size (mm) Suc x Del	HP	Phase	Mech. Seal

Sr. No.	KOEL Model	Motor (HP - kw)	PHASE	Pipe Size (mm) Suc. X Del.	Speed (rpm)	Solid handling size (mm)	Head (Mtrs.)	6	8	10	12
1	IMM.4040.05.1.MS	0.5 - 0.37	1	40X40	2800	6	Disc-LPS	3.3	2.5	1.8	1
2	IMM.4040.05.3.MS	0.5 - 0.37	3	40X40	2800	6		3.3	2.5	1.8	1

EXPLODED VIEW

IMM.4040.05.1.MS
IMM.4040.05.3.MS



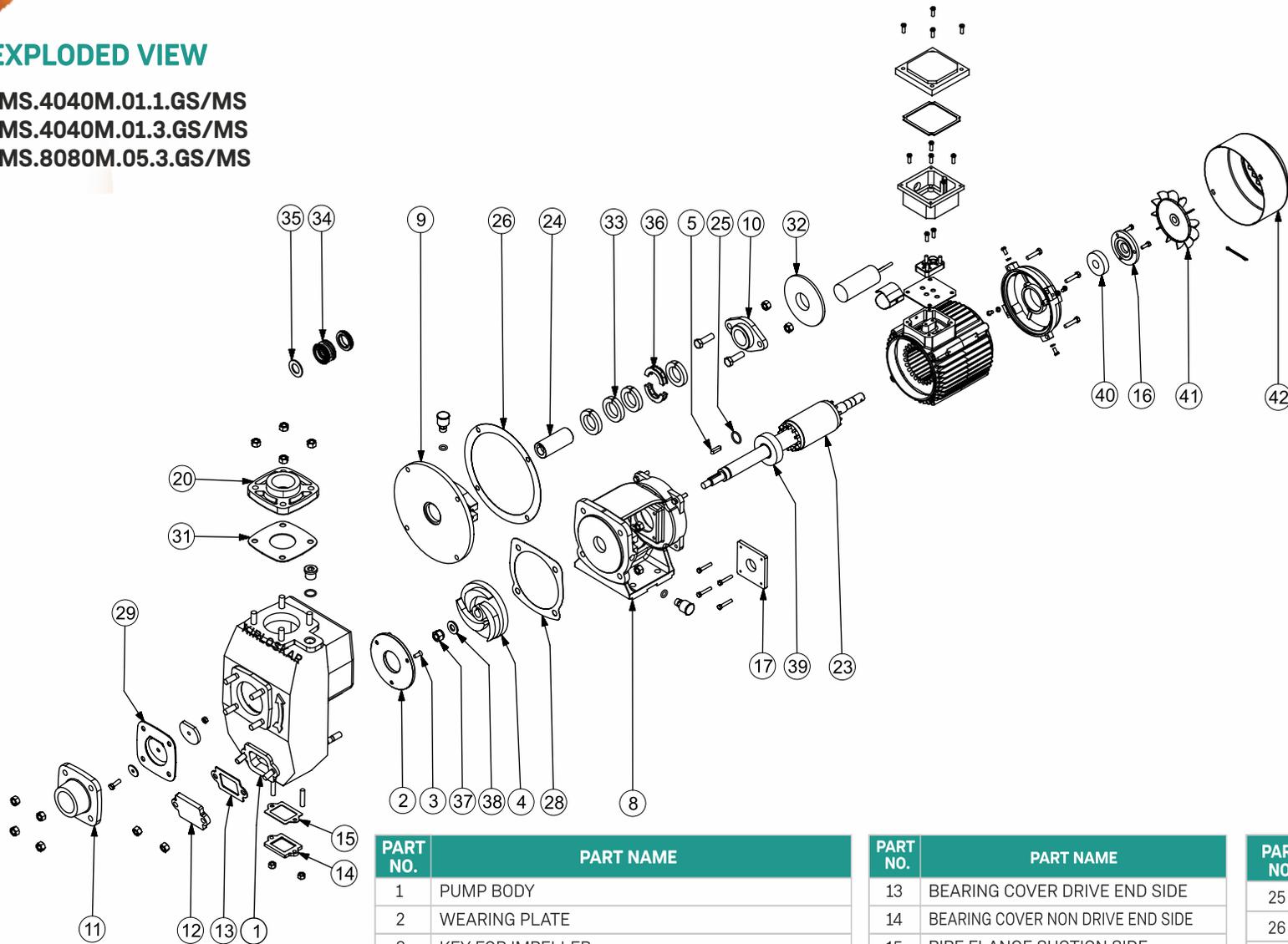
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8	GLAND BUSH
9	SUCTION HOUSING
10	INSPECTION WINDOW COVER
11	RUBBER OR PAPER PACKING FOR INSPECTION WINDOW COVER
12	DRAINAGE WINDOW COVER

PART NO.	PART NAME
13	BEARING COVER DRIVE END SIDE
14	BEARING COVER NON DRIVE END SIDE
15	PIPE FLANGE SUCTION SIDE
16	PIPE FLANGE DELIVERY SIDE
17	ROTOR SHAFT
18	SHAFT SLEEVE
19	O RING
20	PAPER PACKING FOR STUFFING HOUSING
21	PAPER PACKING FOR SUCTION HOUSING
22	PAPER PACKING FOR BEARING HOUSING
23	FLAP VALVE
24	RUBBER PACKING FOR SUCTION SIDE

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26	WATER DEFLECTOR
27	GLAND PACKING
28	MECHANICAL SEAL
29	MECHANICAL SEAL WASHER
30	LANTERN RING
31	NYLON LOCK NUT
32	BEARING DRIVE END SIDE
33	BEARING NON DRIVE END SIDE
34	FAN
35	FANCOVER

EXPLODED VIEW

IMS.4040M.01.1.GS/MS
IMS.4040M.01.3.GS/MS
IMS.8080M.05.3.GS/MS



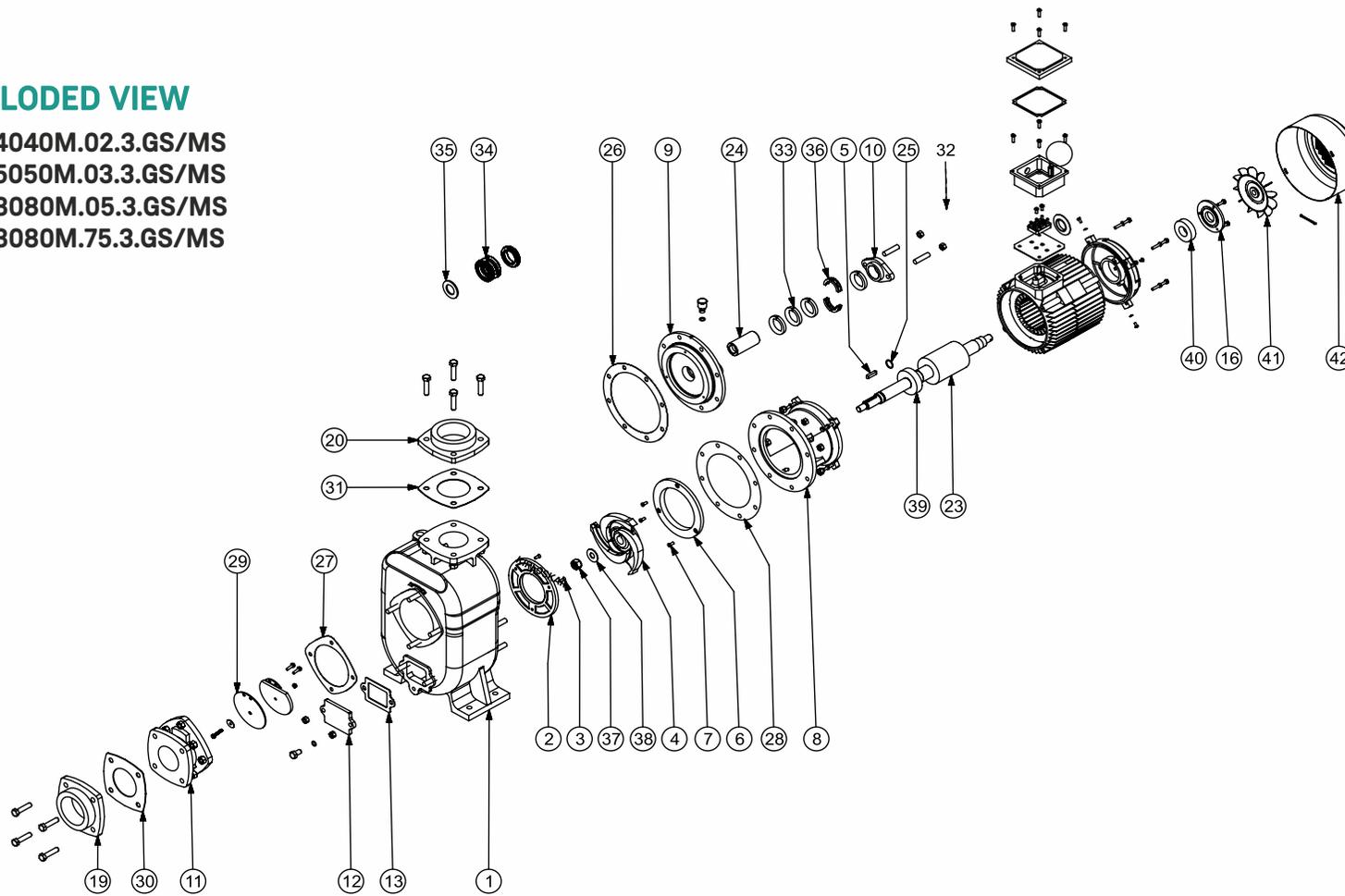
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IMS.4040M.02.3.GS/MS
 IMS.5050M.03.3.GS/MS
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 IMS.8080M.75.3.GS/MS



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