

INDUSTRIAL PUMPS



The background image shows a complex industrial facility with various pipes, valves, and pumps. A large electric motor is visible on the right side, connected to a pump unit. The entire scene is overlaid with a teal color filter. The text "INDUSTRIAL PUMPING SOLUTIONS" is centered in the middle of the image in a white, sans-serif font.

INDUSTRIAL PUMPING SOLUTIONS



A RICH TRADITION OF ENGINEERING EXCELLENCE

Incorporated in 1946, KOEL is the flagship company of the Kirloskar group. We have four state-of-the-art manufacturing units in India that offer world-class products & service. The company has a sizable presence in international markets, with offices in Dubai, South Africa, Kenya & the United States with representatives in Indonesia and Nigeria.

KOEL also has a strong distribution network throughout the Middle East and Africa.

Today KOEL is an acknowledged leader in the manufacturing off highway diesel engines, agricultural pumpsets, power tillers and generating sets.

We're an international manufacturing conglomerate with offices and deliveries across multiple continents. With a vast product line that includes energy efficient compressors and various kinds of heavy-duty pumps, the Kirloskar group has built a worldwide reputation for reliability, professionalism and innovation.

INDUSTRIAL SELF PRIMING MUD PUMPS



Industrial
Sector



Domestic
Sector



Civil
Sector

SELF PRIMING MUD PUMPS

TECHNICAL SPECIFICATIONS

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 (mm)	: Up to 40

MATERIALS 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/unloading, bilge pumping, fire fighting, sanitary duty, circulation.

CONSTRUCTION

Dewatering excavation, canals, ponds, water supply, concrete washing.

AGRICULTURE

Surface irrigation, liquid manure transfer, spraying fertilizers, washing.

INDUSTRY

Transfer of clean/dirty liquids (neutral, acid, alkali), petroleum, milk of lime, caustic soda, sewage, ash water. Washing, cooling, emergency duty.

MOBILE MACHINERY

Cooling water for marine engines and machinery, priming avoidance.

WASTE TREATMENT

Pumping polluted, hot, or corrosive waste water, sludge removal, neutralizing liquids.

PUBLIC UTILITIES

Pumping muddy water, sewage, flood drainage, dewatering construction sites, sewage pumping.

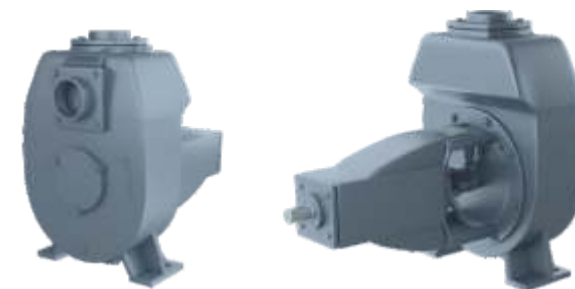


FEATURES

- Replacing foot valve by modern technologies. Easy availability of spares
- Impeller is designed semi opened / opened for handle contamination. Can handle solid particles up to 40 mm
- Back pull out design for ease of repair without disturbing the pipe lines
- All pumps are available with both gland packing and mechanical seal variants
- Dynamically balanced rotating parts
- Long product life

BARE SHAFT PUMPS

(Gland / Mechanical Seal Type)



MOTOR COUPLED PUMP SETS

(Gland / Mechanical Seal Type)



KIRLOSKAR MUD PUMP	BARE SHAFT	HP	Slow Speed
KMP	+	5	S

Pump Selection Guide	IM	S/H	4040	01	3	MS / GS
Code Description	Industrial mud pump	Slow speed-1440 rpm High speed-2800 rpm	Pipe size (mm) Suc X Del	HP	Phase	Mech. seal/ Gland seal

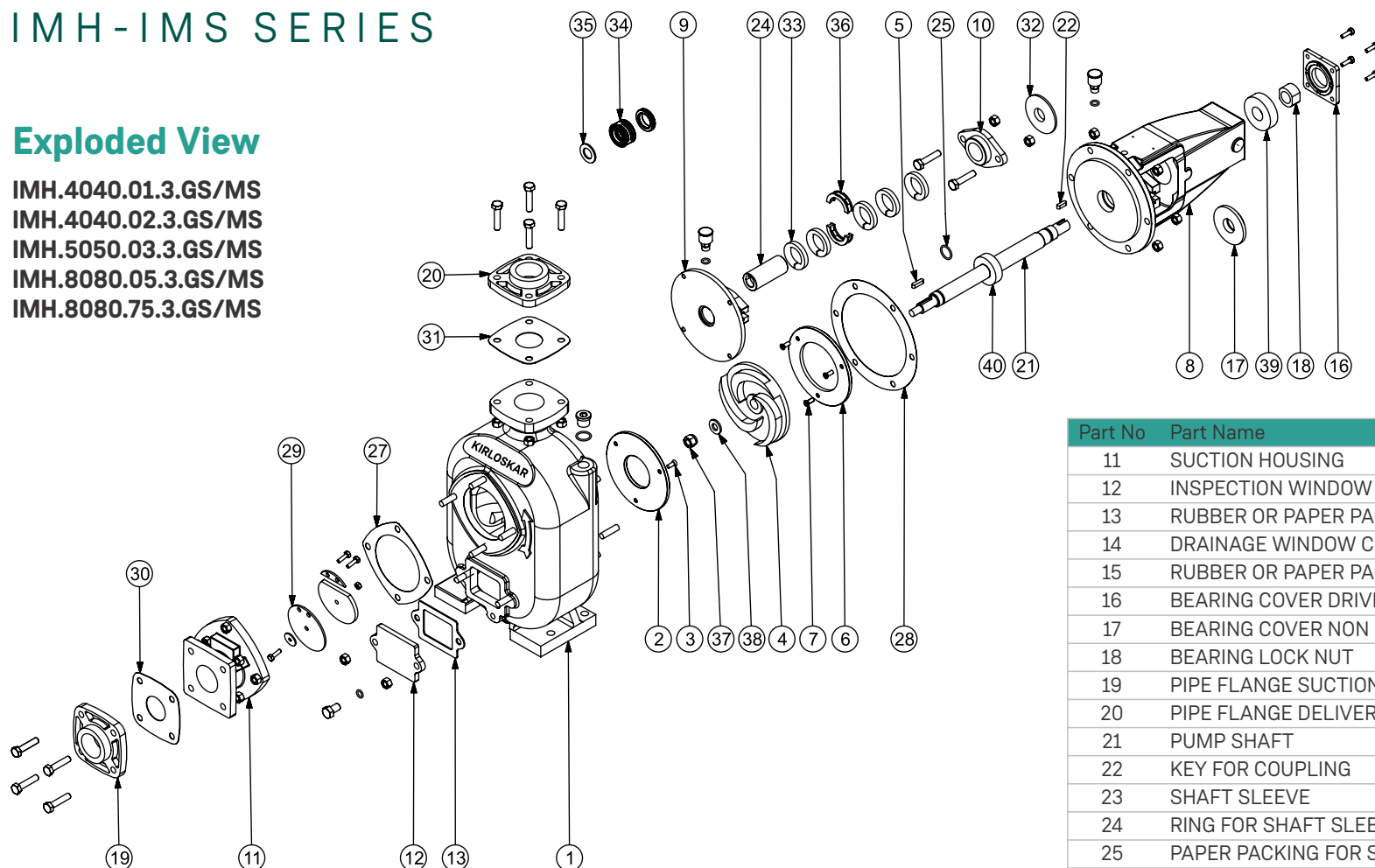
SR. NO.	PUMP MODEL NO.	KOEL PART NO.	POWER RATING	DIRECTION OF ROTATION FROM SUCTION SIDE	PHASE	PIPE SIZE SUC X DEL	SPEED	SOLID HANDLING SIZE	TOTAL HEAD IN METERS																	
									10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44
			HP	MM	RPM	MM	DISCHARGE IN LITERS PER SECOND																			
1	KMP+ 1	IMH.4040.01.3.MS/GS	1.00	Anti-clockwise	3	40X40	2800	7	4	3.4	2.4	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	KMP+ 2	IMH.4040.02.3.MS/GS	2.00	Anti-clockwise	3	40X40	2800	8.5	-	5.5	4.5	3.3	2.1	0.6	-	-	-	-	-	-	-	-	-	-	-	-
3	KMP+ 3	IMH.5050.03.3.MS/GS	3.00	Anti-clockwise	3	50X50	2800	10.5	-	9	8.8	7.6	6.3	4.9	3	-	-	-	-	-	-	-	-	-	-	-
4	KMP+ 5	IMH.8080.05.3.MS/GS	5.00	Anti-clockwise	3	80X80	2800	7	-	-	-	-	-	8.3	7.5	6	5	3.8	2.5	1.3	-	-	-	-	-	-
5	KMP+ 7	IMH.8080.75.3.MS/GS	7.50	Anti-clockwise	3	80X80	2800	14.5	-	-	-	-	-	14	13.5	12.5	10.8	9.2	7.3	5.5	3.3	1.6	-	-	-	-
6	KMP+ 12	IMH.8080.12.3.MS/GS	12.50	Anti-clockwise	3	80X80	2800	14.5	-	-	-	-	-	-	-	20	19.2	18.3	17.8	17	16	13.3	12	9.5	7.1	5.8
7	KMP+ 5S	IMS.8080.05.3.MS/GS	5.00	Clockwise	3	80X80	1440	15.5	18.3	16	14	10.8	6.5	2	-	-	-	-	-	-	-	-	-	-	-	-
8	KMP+ 10S	IMS.1010.10.3.MS/GS	10.00	Clockwise	3	100X100	1440	18.5	33	32	30	26.8	24.7	22	17.8	12.5	-	-	-	-	-	-	-	-	-	-
9	KMP+ 12S	IMS.1010.12.3.MS/GS	12.50	Clockwise	3	100X100	1440	23	40	38	35.7	31	29	25	22	18.3	-	-	-	-	-	-	-	-	-	-
10	KMP+ 20S	IMS.1515.20.3.MS/GS	20.00	Anti-clockwise	3	150X150	1440	34	66	64	60	54.2	48	40	33.3	23	-	-	-	-	-	-	-	-	-	-
11	KMP+ 25S	IMS.1515.25.3.MS/GS	25.00	Anti-clockwise	3	150X150	1440	40	71	69	67.5	63.5	58	52	45	35	23	-	-	-	-	-	-	-	-	-

The performance of the pump is same for Gland / Mechanical Seal Pumps.

IMH-IMS SERIES

Exploded View

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



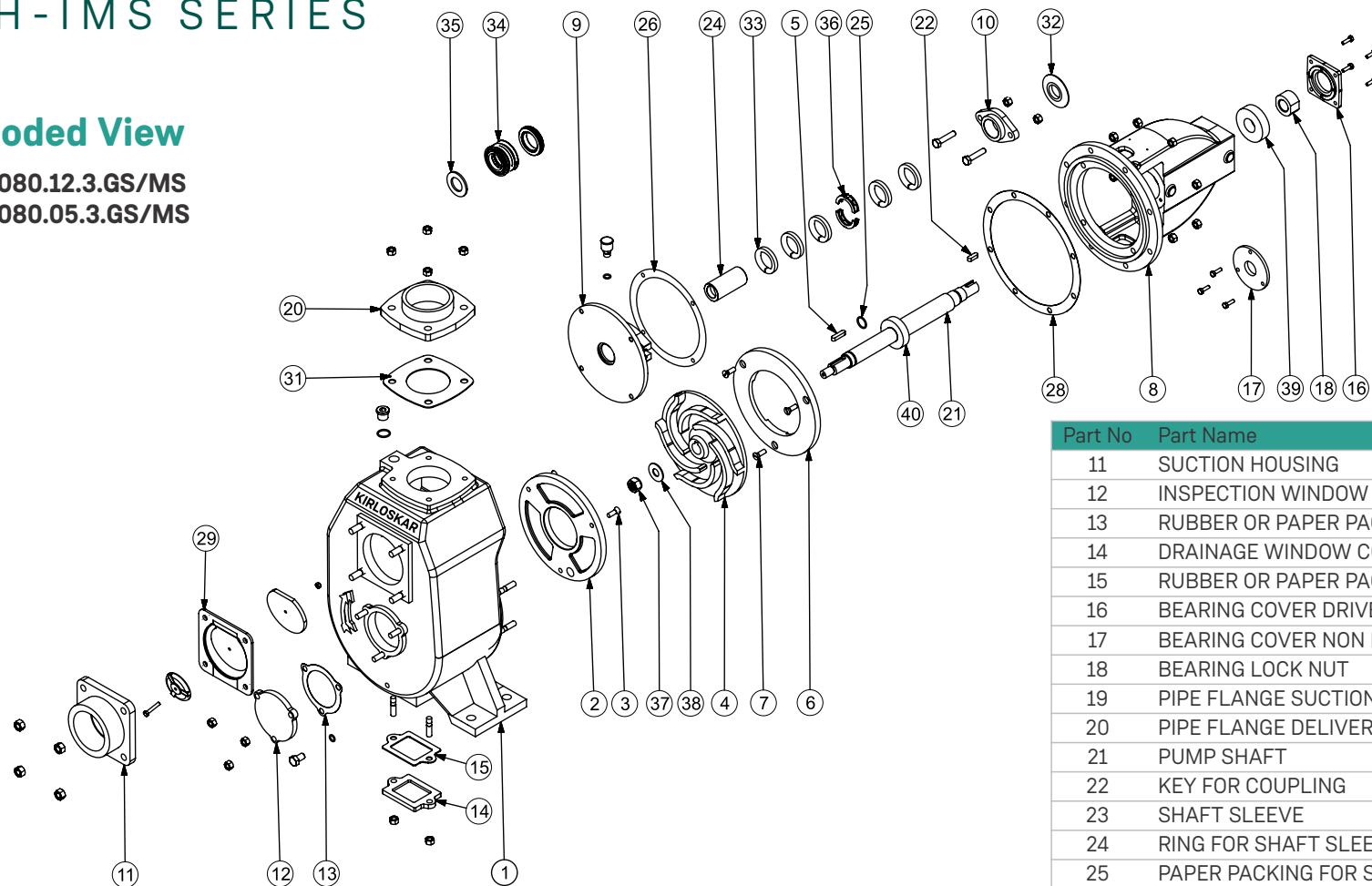
Part No	Part Name
1	PUMP BODY
2	WEARING PLATE
3	COUNTER SUNK SCREW FOR WEARING PLATE
4	IMPELLER
5	KEY FOR IMPELLER
6	IMPELLER RING
7	COUNTER SUNK SCREW FOR IMPELLER RING
8	BERING HOUSING
9	STUFFING HOUSING
10	GLAND BLUSH

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
21	PUMP SHAFT
22	KEY FOR COUPLING
23	SHAFT SLEEVE
24	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
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



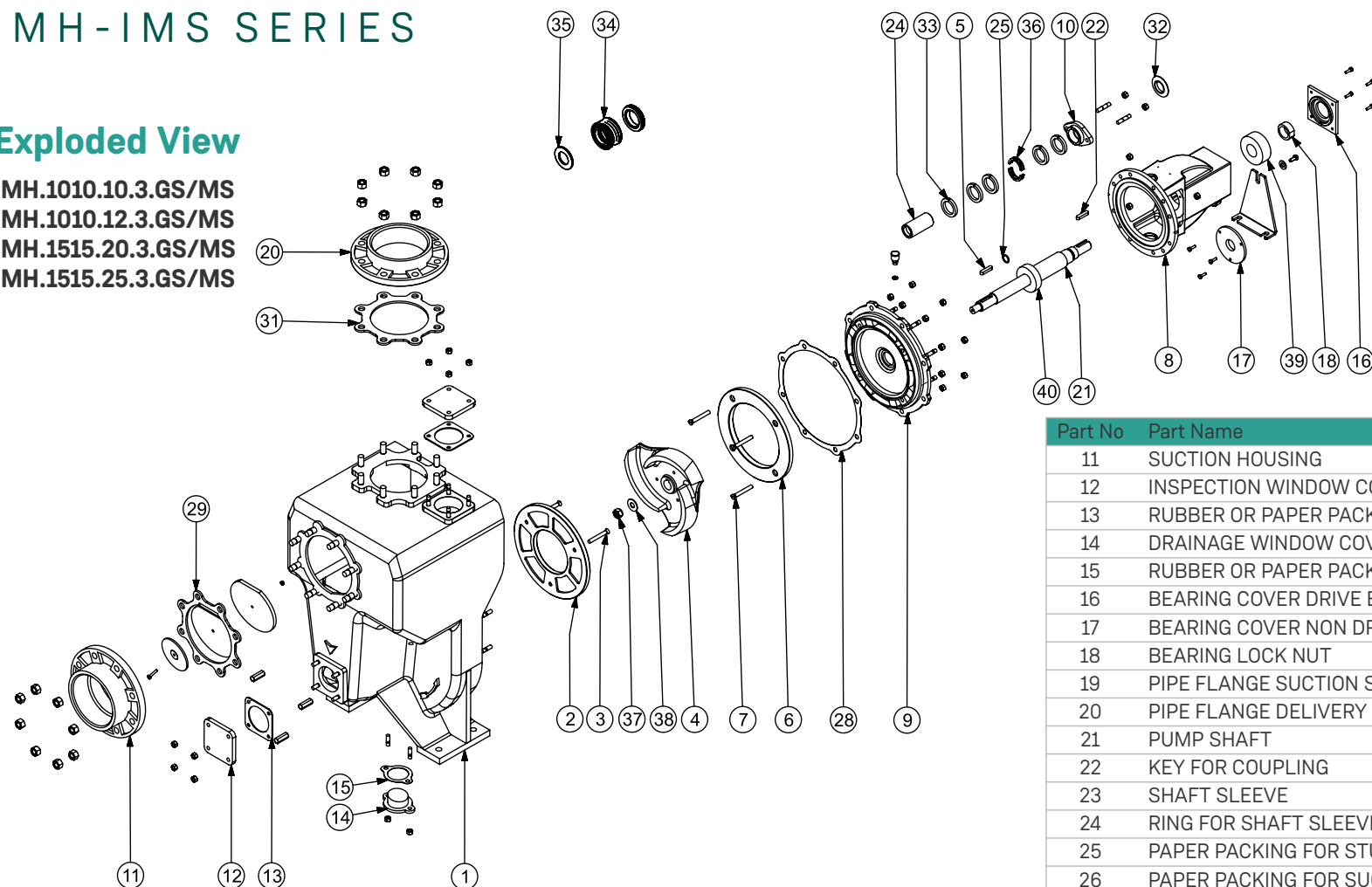
Part No	Part Name
1	PUMP BODY
2	WEARING PLATE
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20	PIPE FLANGE DELIVERY SIDE
21	PUMP SHAFT
22	KEY FOR COUPLING
23	SHAFT SLEEVE
24	RING FOR SHAFT SLEEVE
25	PAPER PACKING FOR STUFFING HOUSING
26	PAPER PACKING FOR SUCTION HOUSING
27	PAPER PACKING FOR BEARING HOUSING
28	FLAP VALVE
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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.1010.10.3.GS/MS
IMH.1010.12.3.GS/MS
IMH.1515.20.3.GS/MS
IMH.1515.25.3.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
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26	PAPER PACKING FOR SUCTION HOUSING
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28	FLAP VALVE
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33	MECHANICAL SEAL
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35	LANTERN RING
36	NYLON LOCK NUT
37	BEARING DRIVE END SIDE
38	BEARING NON DRIVE END SIDE

SELF PRIMING MUD MONOBLOCK PUMP



KIRLOSKAR MUD PUMP	HP	Slow Speed
KMP	5	S

SR. NO.	PUMP MODEL NO.	KOEL PART NO.	POWER RATING HP	PHASE	PIPE SIZE (MM)	SPEED (RPM)	SOLID HANDLING SIZE (MM)	TOTAL HEAD IN METERS															
					SUC X DEL			6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
								DISCHARGE IN LITERS PER SECOND															
1	KMP1	IMH.4040M.01.1.MS/GS	1	1	40X40	2800	7	-	-	4	3.4	2.4	1	-	-	-	-	-	-	-	-	-	-
2	KMP1	IMH.4040M.01.3.MS/GS	1	3	40X40	2800	8.5	-	-	4	3.4	2.4	1	-	-	-	-	-	-	-	-	-	-
3	KMP2	IMH.4040M.02.3.MS/GS	2	3	40X40	2800	10.5	-	-	-	5.5	4.5	3.3	2.1	0.6	-	-	-	-	-	-	-	-
4	KMP3	IMH.5050M.03.3.MS/GS	3	3	50x50	2800	7	-	-	-	9	8.8	7.6	6.3	4.9	3	-	-	-	-	-	-	-
5	KMP5	IMH.8080M.05.3.MS/GS	5	3	80x80	2800	14.5	-	-	-	-	-	-	-	8.3	7.5	6	5	3.8	2.5	1.3	-	-
6	KMP7	IMH.8080M.75.3.MS/GS	7.5	3	80x80	2800	14.5	-	-	-	-	-	-	-	14	13.5	12.5	10.8	9.2	7.3	5.5	3.3	1.6
7	KMP5S	IMS.8080M.05.3.MS/GS	5	3	80x80	1400	15.5	-	-	18.3	16	14	10.8	6.5	2	-	-	-	-	-	-	-	-

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

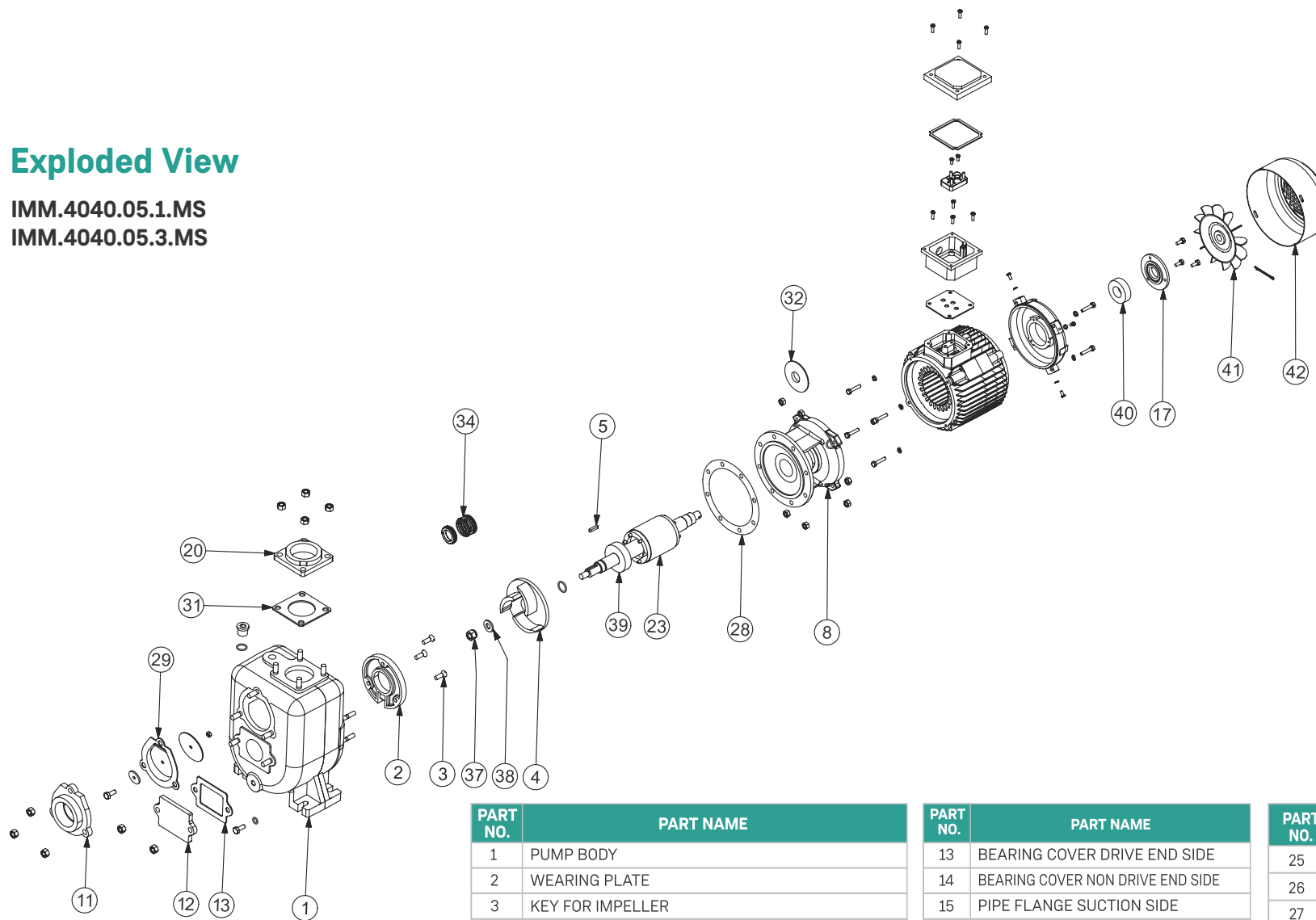


SR. NO.	PUMP MODEL No.	KOEL MODEL No.	MOTOR HP - KW	PHASE	PIPE SIZE SUC. X DEL. MM	SPEED RPM	SOLID HANDLING SIZE MM	HEAD MTRS	6	8	10	12
1	KMP 0.5	IMM.4040.05.1.MS	0.5 - 0.37	1	40X40	2800	6	Disc-LPS	3.3	2.5	1.8	1
2	KMP 0.5	IMM.4040.05.3.MS	0.5 - 0.37	3	40X40	2800	6		3.3	2.5	1.8	1

Exploded View

IMM.4040.05.1.MS

IMM.4040.05.3.MS



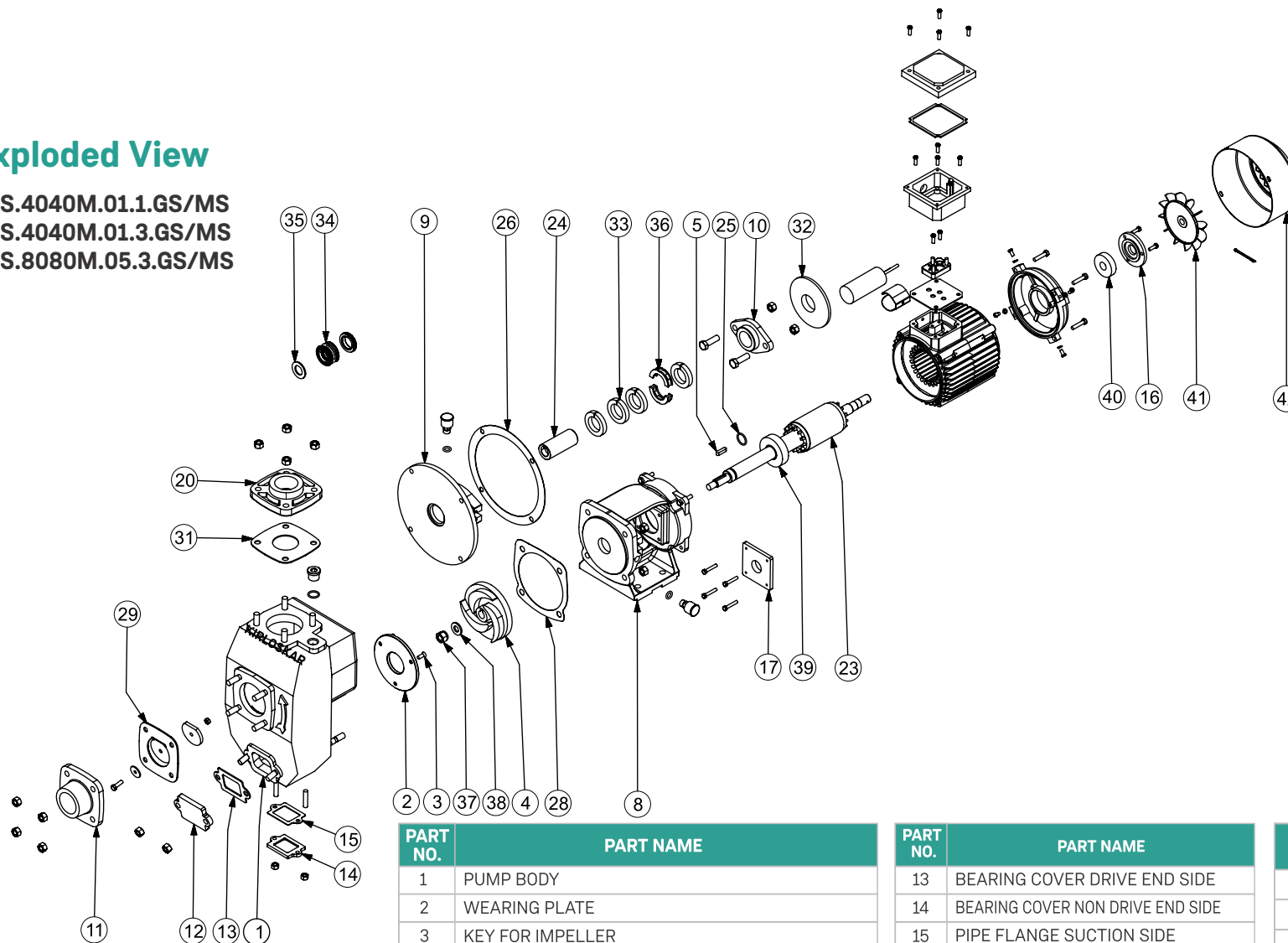
PART NO.	PART NAME
1	PUMP BODY
2	WEARING PLATE
3	KEY FOR IMPELLER
4	IMPELLER RING
5	COUNTER SUNK KEY FOR IMPELLER RING
6	BEARING HOUSING
7	STUFFING HOUSING
8	GLAND BUSH
9	SUCTION HOUSING
10	INSPECTION WINDOW COVER
11	RUBBER OR PAPER PACKING FOR INSPECTION WINDOW COVER
12	DRAINAGE WINDOW COVER

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

PART NO.	PART NAME
25	RUBBER PACKING FOR DELIVERY SIDE
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



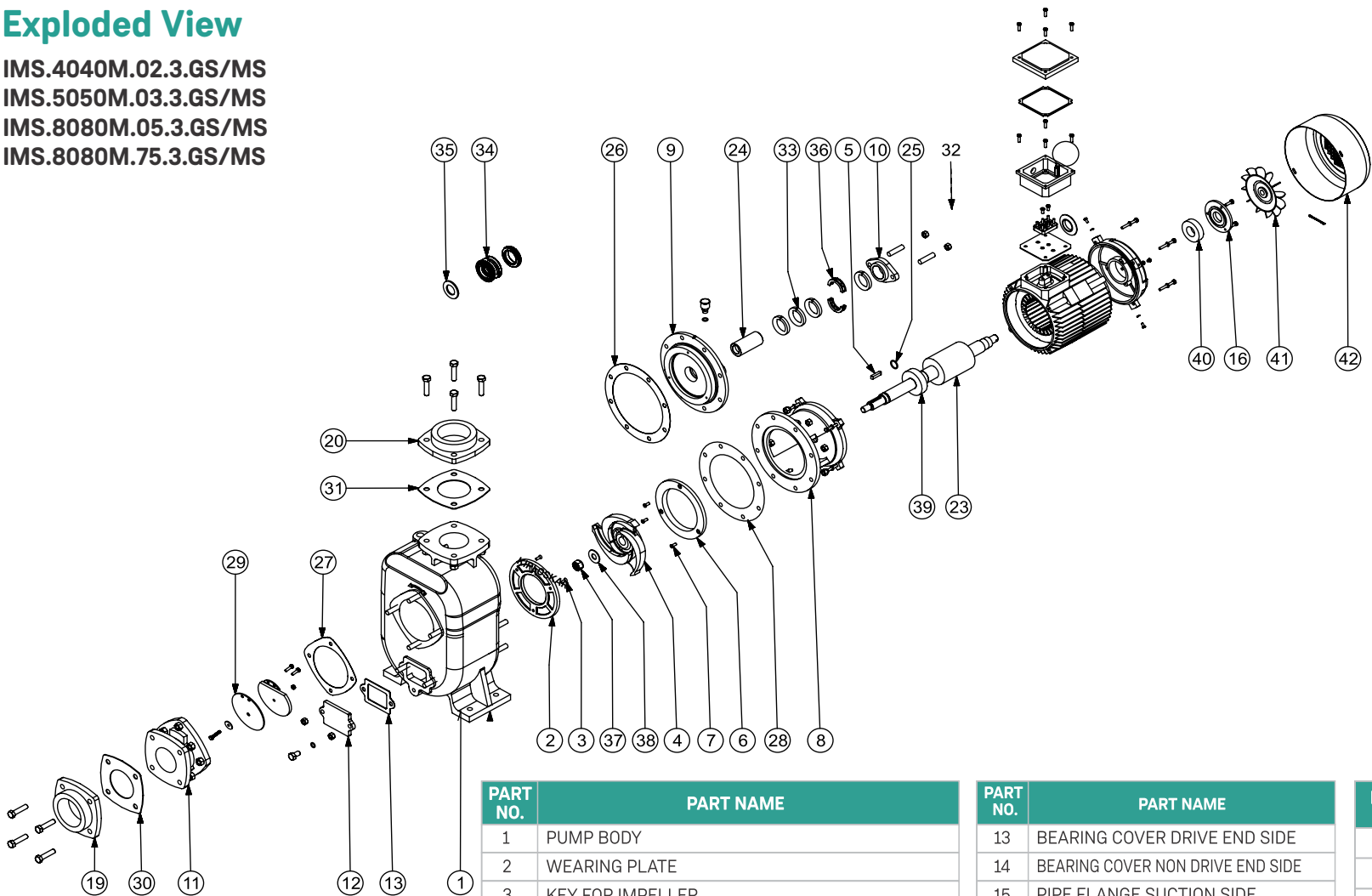
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Exploded View

IMS.4040M.02.3.GS/MS
IMS.5050M.03.3.GS/MS
IMS.8080M.05.3.GS/MS
IMS.8080M.75.3.GS/MS

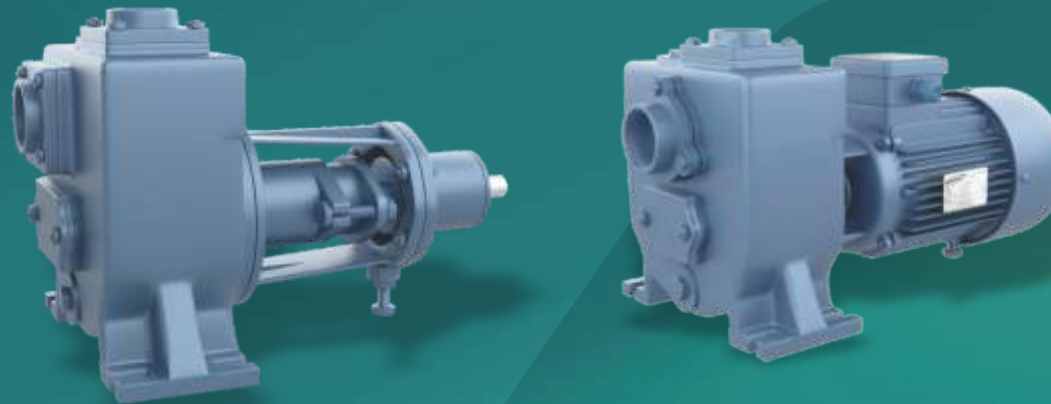


PART NO.	PART NAME
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PART NO.	PART NAME
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PART NO.	PART NAME
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29	MECHANICAL SEAL WASHER
30	LANTERN RING
31	NYLON LOCK NUT
32	BEARING DRIVE END SIDE
33	BEARING NON DRIVE END SIDE
34	FAN
35	FANCOVER

SELF PRIMING EC SERIES MUD PUMP AND MUD MONOBLOCK PUMP



SELF PRIMING EC SERIES MUD PUMP AND MUD MONOBLOCK PUMP

TECHNICAL SPECIFICATIONS

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)	: 0.50 (0.37) to 5.00 (3.70)
Pipe size (mm)	: 40 X 40 to 80 X 80
Speed (rpm)	: 1440 & 2800
Head (Mtrs)	: Up to 20
Discharge (lps)	: Up to 19
Solid handling (mm)	: Up to 23

MATERIALS 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
Shaft	: SS-410
Shaft sleeve	: SS-410
Stamping	: CRNGO, M-45 Grade
Gland Packing	: Graphite asbestors
Bearings	: SKF / Equivalent

OPTIONAL SUPPLY

Body	: SS 316 - (CF 8M) / Bronze
Wear plate	: SS-316 (CF 8M) / Bronze
Shaft	: SS-316 (CF 8M)
Shaft sleeve	: SS-316 (CF 8M)
Gland packing	: Teflon



APPLICATIONS

INDUSTRY

Transfer clean, dirty, containing sand in suspension, muddy, neutral, alkaline, acidic liquids, low viscous petroleum products, solvents even if dirty, milk of lime, caustic soda etc. Washing, cooling, recirculation, smoke scrubbing. Treatment pumping polluted, hot or corrosive waste water containing

sand, mud or solids in suspension, dosing neutralizing liquids, pumping out settled sludge.

AGRICULTURE

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

SAFETY

Drainage after flooding or torrential rains.

Emergency duty temporary sewage pumping; fire fighting; recovery of dangerous liquids.

Industrial Pumping Solutions



Features

- Compact design and efficient performance.
- Rapid self-priming . No need of foot valve & priming every time for quicker operation
- Open impeller design allowing the passage of wide solid bodies and easy inspection.
- Long product life due to the parts subject to wear can be easily replaced several times to restore the original performance of the pump.
- All rotating parts are dynamically balanced for smooth running and low vibration.
- All pumps are available with gland packing or mechanical seal.
- Available in 1 Phase (180-240V) and 3 Phase (380-440V)



MOTOR COUPLED PUMP SETS



PERFORMANCE CHART

Monobloc Pump (EC Series)																
Sr. No.	Pump Model	KOEL Part No	Power Rating Hp	Phase	Pump Size (mm) Suc x Del	Speed (rpm)	Solid Handling Size (mm)	Total Head in Meters								
								6	8	10	12	14	16	18	20	22
								Discharge In Liter Per Second								
1	KMP 1E	IMH.4040M.01EC.1.MS/GS	1	1	40 X 40	2800	15	-	-	5.7	4.8	3.3	2.4	-	-	-
2	KMP 1E	IMH.4040M.01EC.3.MS/GS	1	3	40 X 40	2800	15	-	-	5.7	4.8	3.3	2.4	-	-	-
3	KMP 2E	IMH.5050M.02EC.3.MS/GS	2	3	50 X 50	2800	18	-	-	7.2	5.5	4	2	-	-	-
4	KMP 3E	IMH.5050M.03EC.3.MS/GS	3	3	50 X 50	2800	23	-	-	-	8.2	6.5	4.9	2.3	-	-
5	KMP 5SE	IMS.8080M.05EC.3.MS/GS	5	3	80 X 80	1440	15.5	-	19.2	16.7	15.3	13	9.4	6.5	3	-

Bare Shaft Pump (EC Series)																
Sr. No.	Pump Model	KOEL Part No	Power Rating Hp	Phase	Pump Size (mm) Suc x Del	Speed (rpm)	Solid Handling Size (mm)	Total Head in Meters								
								6	8	10	12	14	16	18	20	22
								Discharge In Liter Per Second								
1	KMP+ 1E	IMH.4040.01EC.3.MS/GS	1	3	40 X 40	2800	15	-	-	5.7	4.8	3.3	2.4	-	-	-
2	KMP+ 2E	IMH.5050.02EC.3.MS/GS	2	3	50 X 50	2800	18	-	-	7.2	5.5	4	2	-	-	-
3	KMP+ 3E	IMH.5050.03EC.3.MS/GS	3	3	50 X 50	2800	23	-	-	-	8.2	6.5	4.9	2.3	-	-
4	KMP+ 5SE	IMS.8080.05EC.3.MS/GS	5	3	80 X 80	1440	15.5	-	19.2	16.7	15.3	13	9.4	6.5	3	-



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Technical details of this pumpset are approximate & may change due to site condition or due to continuous improvement.

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