

Item No.	Equipment Tag Number (KKS)										Spec No.	Equipment Name	Description of Spare Items	Manufacturer's Part Identification	Qty per two Units		Sketch	Cross Reference Drawing	Frequency of replacement	Remarks	
	Level 0 (Total Plant)	Level 1 (System Code)			Level 2 (Equipment Code)			Level 3 (Component Code)							Qty	(nr., pcs, set, etc)				Item No. of CDA	Qty difference from Qty of CDA
	G	F <sub>0</sub>	F <sub>1</sub> ,F <sub>2</sub> ,F <sub>3</sub>	F <sub>N</sub>	A <sub>1</sub> ,A <sub>2</sub>	A <sub>N</sub>	A <sub>3</sub>	B <sub>1</sub> ,B <sub>2</sub>	B <sub>N</sub>												
138	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	67,9281	Bearing		1	pcs	3311&NJ2311		25000h		5-1	
139	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	67,9281	Mechanical seal		1	pcs	M7N65		16000h		5-1	
140	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	67,9281	Casing insert (screw pumps)		1	pcs	2HMG2500C-01(ZG230)		5 years		3-1	
141	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	67,9281	O-ring and gasket		1	pcs	2HMG280-22/103	N/A	Every disassemble the pump	New Item		
142	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	67,9281	Bearing		1	pcs	3305&NJ2305	refer to pdf drawing attachment 1	25000h	New Item		
143	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	67,9281	Mechanical seal		1	pcs	M7N30	refer to pdf drawing attachment 2	16000h	New Item		
144	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	67,9281	Casing insert (screw pumps)		1	pcs	2HMG280C-01(ZG230)	refer to pdf drawing attachment 3	5 years	New Item		
145	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	67,9281	O-ring and gasket		1	pcs	2HMG1400-22/103	N/A	Every disassemble the pump	New Item		
146	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	67,9281	Bearing		1	pcs	3309&NJ2309		25000h	New Item		
147	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	67,9281	Mechanical seal		1	pcs	M7N50		16000h	New Item		
148	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	67,9281	Casing insert (screw pumps)		1	pcs	2HMG1400C-01(ZG230)		5 years	New Item		
149	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	67,9281	O-ring and gasket		2	pcs	O-RING:110,720 MM-3,530 MM-245 O-RING:126,590 MM-3,530 MM-290 Gasket:1500*600*0,381	NA	Every disassemble the pump	New Item		
150	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	67,9281	Bearing		2	pcs	7311/BE CB M P6/P5,6213/C3	NA	25000h	New Item		
151	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	67,9281	Mechanical seal		2	pcs			25000h	New Item		
152												Start-up boiler									
153	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	67,6150	Ignitor		2	pcs			Force (Expected )	B3-3-SP-1		
154	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	67,6150	Flame detector		1	pcs	burner-No3		failure,(>2years)	B3-3-SP-2		



## 2HMG2500CT6 Parts List

Parts List				Tag No.	00EGA11AP001 00EGA12AP001
NO.	Code	Name	Material	Quantity	
1	2HMG2500C-01T6	Pump Casing	ASTM A27/A27M 450-240 (ZG230-450)	1	
2	2HM2500B-02	Front Bearing Housing	ASTM A48 Class35B	1	
3	2HM2500B-03	Back Bearing Housing	ASTM A48 Class35B	1	
4	2HM2500B-04	Gear Casing	ASTM A48 Class35B	1	
5	2HM2500B-05	Driving Shaft(Φ100mm)	ASTM 564 Type630 (1.4542)	1	
6	2HM2500B-06	Driven Shaft(Φ100mm)	ASTM 564 Type630 (1.4542)	1	
7	2HM2500B-07	Left-hand Screw	38CrMoAl (1.8509)	2	
8	2HM2500B-08	Right-hand Screw	38CrMoAl (1.8509)	2	
9	2HM2500B-09	Sealing Box	ASTM A276 Type420	4	
11	2HM2500B-11	Driving Shaft Bearing Cap	ASTM A48 Class35B	1	
12	2HM2500B-12	Driven Shaft Bearing Cap	ASTM A48 Class35B	1	
13	2HM2500B-13	Left-handed Gear	20CrMnTi(No ASTM)	1	
14	2HM2500B-14	Right-handed Gear	20CrMnTi(No ASTM)	1	
15	2HM2500B-15	Gear Sleeve	ASTM A29/A29M-04 Gr1045	1	
16	2HM2500B-16	Gear Clamp	ASTM A29/A29M-04 Gr1045	2	
17	2HM2500B-17	Spacer Bush	ASTM A29/A29M-04 Gr1045	2	
21	2HM2500B-21	Locking Nut	ASTM A105/A105M A105	4	
22	2HM2500B-22	Pump End Gasket	Non-Asbestos Fiber-Reinforced Rubber Sheet	2	
27	2HM2500B-27	Sealing Box Gasket	Non-Asbestos Fiber-Reinforced Rubber Sheet	1	
28	2HM2500B-28	Gear Casing Gasket	Non-Asbestos Fiber-Reinforced Rubber Sheet	1	
101	3311A	Double Row Angular Contact Ball Bearing	ASTM A485 SKF 3#Steel	2	
102	NJ2311ECP	Single Row Roller Bearings	ASTM A485 SKF 3#Steel	2	
103	GB3452.1-1992	O-ring 109x3.55	NBR	2	
104	GB13871.1-1992	Oil Seal FB65x90x8	NBR	4	
105	GB13871.1-1992	Oil Seal FB50x68x8	NBR	1	
128	AN11	Round Nut M55x2	ASTMA29/A29M-05 Gr1035	2	
129	AW11	Tab Washer 55	ASTM A283 GrC	2	
200	M7N/65	Mechanical Seals	WC/WC/fluorine rubber/S31600	4	



## 2HMG280T6 Parts List

Parts List				Tag No.	00EGA31AP001 00EGA32AP001
NO.	Code	Name	Material	Quantity	
1	2HMG280-01T6	Pump Casing	ASTM A27/A27M 450-240 (ZG230-450)	1	
2	2HM280B-02	Front Bearing Housing	ASTM A48 Class35B	1	
3	2HM280B-03	Back Bearing Housing	ASTM A48 Class35B	1	
4	2HM280B-04	Gear Casing	ASTM A48 Class35B	1	
5	2HM280B-05	Driving Shaft(Φ44mm)	ASTM 564 Type630 (1.4542)	1	
6	2HM280B-06	Driven Shaft(Φ44mm)	ASTM 564 Type630 (1.4542)	1	
7	2HM280B-07	Left-hand Screw	38CrMoAl (1.8509)	2	
8	2HM280B-08	Right-hand Screw	38CrMoAl (1.8509)	2	
9	2HM280B-09	Sealing Box	ASTM A276 Type420	4	
11	2HM280B-11	Driving Shaft Bearing Cap	ASTM A48 Class35B	1	
12	2HM280B-12	Driven Shaft Bearing Cap	ASTM A48 Class35B	1	
13	2HM280B-13	Left-handed Gear	20CrMnTi(No ASTM)	1	
14	2HM280B-14	Right-handed Gear	20CrMnTi(No ASTM)	1	
15	2HM280B-15	Gear Sleeve	ASTM A29/A29M-04 Gr1045	1	
16	2HM280B-16	Gear Clamp	ASTM A29/A29M-04 Gr1045	2	
17	2HM280B-17	Spacer Bush	ASTM A29/A29M-04 Gr1045	2	
21	2HM280B-21	Locking Nut	ASTM A105/A105M A105	4	
22	2HM280B-22	Pump End Gasket	Non-Asbestos Fiber-Reinforced Rubber Sheet	2	
27	2HM280B-27	Sealing Box Gasket	Non-Asbestos Fiber-Reinforced Rubber Sheet	1	
28	2HM280B-28	Gear Casing Gasket	Non-Asbestos Fiber-Reinforced Rubber Sheet	1	
101	3305A	Double Row Angular Contact Ball Bearing	ASTM A485 SKF 3#Steel	2	
102	NJ2305ECP	Single Row Roller Bearings	ASTM A485 SKF 3#Steel	2	
103	GB3452.1-1992	O-ring 53x3.55	NBR	2	
104	GB13871.1-1992	Oil Seal FB30x47x7	NBR	4	
105	GB13871.1-1992	Oil Seal FB30x42x7	NBR	1	
128	AN5	Round Nut M25x1.5	ASTMA29/A29M-05 Gr1035	2	
129	AW5	Tab Washer 25	ASTM A283 GrC	2	
200	M7N/30	Mechanical Seals	WC/WC/fluorine rubber/S31600	4	



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## 2HMG1400CT6 Parts List

Parts List				Tag No.	00EGC13AP001 00EGC14AP001
NO.	Code	Name	Material	Quantity	
1	2HMG1400C-01T6	Pump Casing	ASTM A27/A27M 450-240 (ZG230-450)	1	
2	2HM1400B-02	Front Bearing Housing	ASTM A48 Class35B	1	
3	2HM1400B-03	Back Bearing Housing	ASTM A48 Class35B	1	
4	2HM1400B-04	Gear Casing	ASTM A48 Class35B	1	
5	2HM1400B-05	Driving Shaft(Φ64mm)	ASTM 564 Type630 (1.4542)	1	
6	2HM1400B-06	Driven Shaft(Φ64mm)	ASTM 564 Type630 (1.4542)	1	
7	2HM1400B-07	Left-hand Screw	38CrMoAl (1.8509)	2	
8	2HM1400B-08	Right-hand Screw	38CrMoAl (1.8509)	2	
9	2HM1400B-09	Sealing Box	ASTM A276 Type420	4	
11	2HM1400B-11	Driving Shaft Bearing Cap	ASTM A48 Class35B	1	
12	2HM1400B-12	Driven Shaft Bearing Cap	ASTM A48 Class35B	1	
13	2HM1400B-13	Left-handed Gear	20CrMnTi(No ASTM)	1	
14	2HM1400B-14	Right-handed Gear	20CrMnTi(No ASTM)	1	
15	2HM1400B-15	Gear Sleeve	ASTM A29/A29M-04 Gr1045	1	
16	2HM1400B-16	Gear Clamp	ASTM A29/A29M-04 Gr1045	2	
17	2HM1400B-17	Spacer Bush	ASTM A29/A29M-04 Gr1045	2	
21	2HM1400B-21	Locking Nut	ASTM A105/A105M A105	4	
22	2HM1400B-22	Pump End Gasket	Non-Asbestos Fiber-Reinforced Rubber Sheet	2	
27	2HM1400B-27	Sealing Box Gasket	Non-Asbestos Fiber-Reinforced Rubber Sheet	1	
28	2HM1400B-28	Gear Casing Gasket	Non-Asbestos Fiber-Reinforced Rubber Sheet	1	
101	3309A	Double Row Angular Contact Ball Bearing	ASTM A485 SKF 3#Steel	2	
102	NJ2309ECP	Single Row Roller Bearings	ASTM A485 SKF 3#Steel	2	
103	GB3452.1-1992	O-ring 90x3.55	NBR	2	
104	GB13871.1-1992	Oil Seal FB50x68x8	NBR	4	
105	GB13871.1-1992	Oil Seal FB50x68x8	NBR	1	
128	AN9	Round Nut M45x1.5	ASTMA29/A29M-05 Gr1035	2	
129	AW9	Tab Washer 45	ASTM A283 GrC	2	
200	M7N/50	Mechanical Seals	WC/WC/fluorine rubber/S31600	4	