

文件说明 Document Remarks	机 型 Eng. Type	CMD-MAN B&W 6G60ME-C MK9.5
	台 份 Set No.	44#45#46#47#
	工程编号 Engine No.	CE0561Y/562Y/576A/580A
	船 厂 Shipyard	江苏新时代造船有限公司
	船 号 Hull No.	0311117/18/19/20
	船级社 Classification Society	ABS

CMD-MAN B&W 6G60ME-C MK9.5 LIST OF SPARE PARTS 备件清单

 G60MEC-160王勇20180729

	5
	4
	3
	2
	1

修 改 说 明 Corrected Description

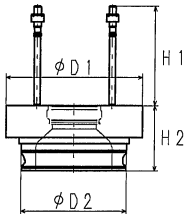
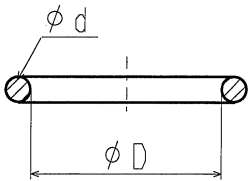
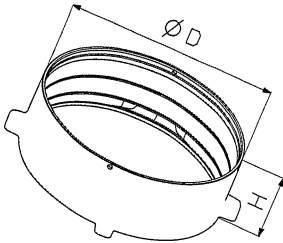
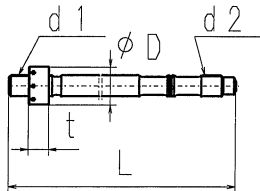
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被替代文件编号 Replace No.		设计参考文件编号 Reference No.		页 数 Pages	总页数 Total Pages	34

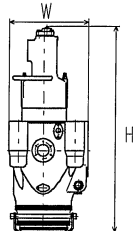
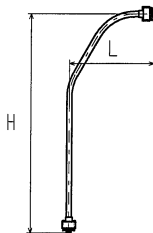
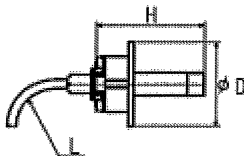
	上海中船三井造船柴油机有限公司 CSSC-MES Diesel Co., Ltd.	文件编号 Document No.	CE056143
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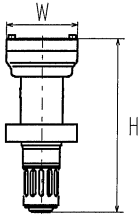
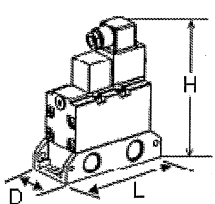
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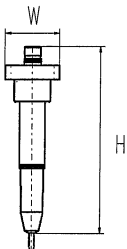
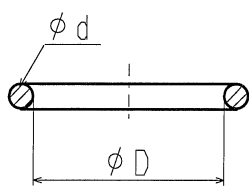
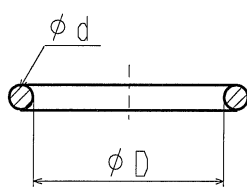
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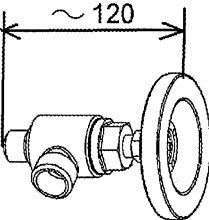
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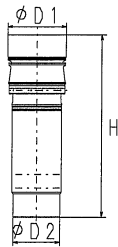
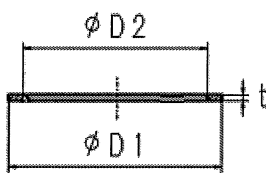
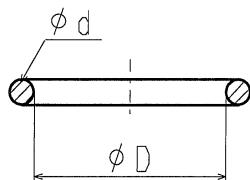
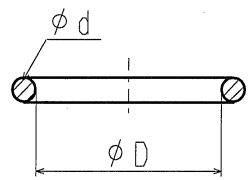
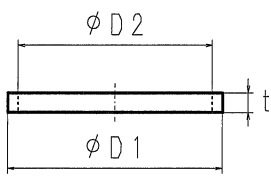
SPARES		CSSC-MES DIESEL Co. , LTD.				Page 3	Total 34
MAIN DIESEL ENGINE 6G60ME-C9.5						SHIP NO.	
CYLINDER COVER							
NAME	SKETCH	MATERIAL	SUPPLY PER SHIP		DRAWING NO.	BOX NO.	
			WORKING	SPARE		WEIGHT (kg)	
A-1	 D1=1100, D2=860, H1=748.5, H2=495	Components	1 × cyl	1	341A		
缸盖总成(不含水套、 阀件、密封圈)							
Cylinder cover complete with stud, nuts (excluding cooling jacket, valves, O-ring)						1×1843.2	
A-2	 D=775, d=8.4	5572	2 × cyl	2	341A9		
0型密封圈						For A-1	
O-ring						1×0.3	
A-3	 D=860, H=228	Components	1 × cyl	1	341A12		
缸盖冷却水套							
Cooling jacket for cyl. Cover						1×106	
A-4	 d1=M68×6, d2=M76×6, D=122, t=66, L=2455	Steel	8 × cyl	4	231E105 231E115		
缸盖螺柱、螺母						4×127.7	
Stud & nut for cover tightening							
MANUFACTURER	CSSC-MES DIESEL Co. , LTD.					CE056143	

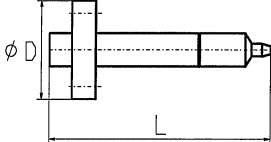
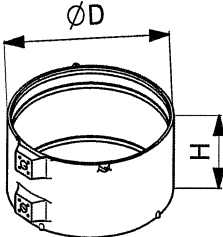
SPARES		CSSC-MES DIESEL Co., LTD.				Page 4	Total 34
MAIN DIESEL ENGINE 6G60ME-C9.5						SHIP NO.	
EXHAUST VALVE							
NAME	SKETCH	MATERIAL	SUPPLY PER SHIP		DRAWING NO.	BOX NO.	
			WORKING	SPARE		WEIGHT (kg)	
B-1	 H=1527, W=800	Components	1 × cyl	2	343A	2×775.5	
排气阀总成							
Exhaust valve complete							
B-2	 L=1044, H=2359	Components	1 × cyl	1	434B	1×72.5	
排气阀液压管总成							
High pressure pipe complete (Exh. valve)							
B-3	 H=124, D=80, L=8m	Components	1 × cyl	1	343A146	1×0.7	
传感器							
Inductive sensor							
MANUFACTURER		CSSC-MES DIESEL Co., LTD.				CE056143	

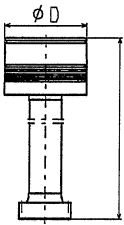
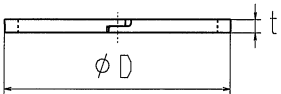
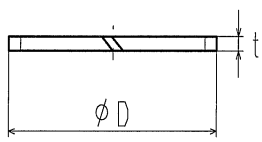
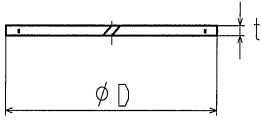
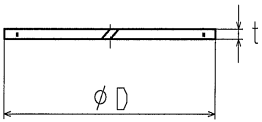
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MAIN DIESEL ENGINE 6G60ME-C9.5					SHIP NO.	
STARTING VALVE						
NAME	SKETCH	MATERIAL	SUPPLY PER SHIP		DRAWING NO.	BOX NO.
			WORKING	SPARE		WEIGHT (kg)
C-1	 H=454, W=187	Components	1 × cyl	1	346A	
起动阀总成						
Starting valve complete						1×30.8
C-2	 H=151, L=128, D=56	Components	1 × cyl	1	531L7	
两位三通电磁阀						
3/2-way solenoid valve						1×1.2
MANUFACTURER	CSSC-MES DIESEL Co. , LTD.					CE056143

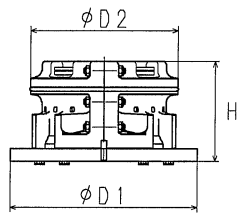
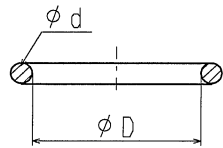
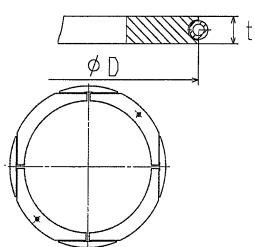
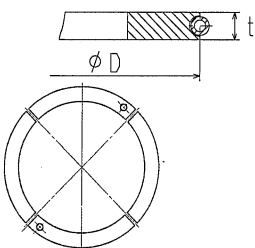
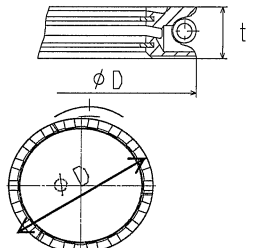
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MAIN DIESEL ENGINE 6G60ME-C9.5						SHIP NO.	
FUEL VALVE							
NAME	SKETCH	MATERIAL	SUPPLY PER SHIP		DRAWING NO.	BOX NO.	
			WORKING	SPARE		WEIGHT (kg)	
D-1	 H=416.3, W=156	Components	3 × cyl	15	344A		
喷油器总成							
Fuel valve complete						15×7.95	
D-2	 D=54.5, d=3	5572	3 × cyl	6	344A8		
0型密封圈							
0-ring						6×0.003	
D-3	 D=40, d=3	5572	3 × cyl	6	344A13		
0型密封圈							
0-ring						6×0.3	
MANUFACTURER	CSSC-MES DIESEL Co. , LTD.					CE056143	

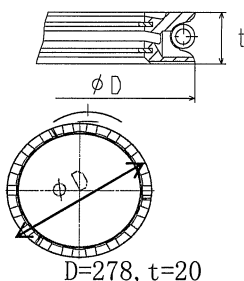
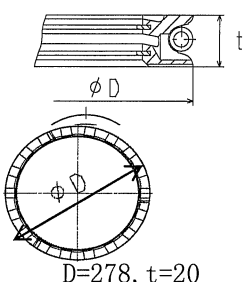
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MAIN DIESEL ENGINE 6G60ME-C9.5						SHIP NO.	
INDICATOR VALVE							
NAME	SKETCH	MATERIAL	SUPPLY PER SHIP		DRAWING NO.	BOX NO.	
			WORKING	SPARE		WEIGHT (kg)	
E-1		Components	1 × cyl	1	453AE18	1 × 1.00	
示功阀总成							
Indicator cock							

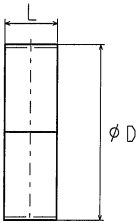
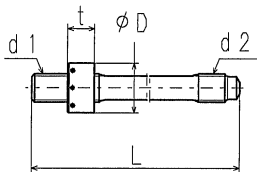
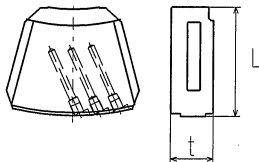
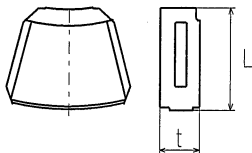
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MAIN DIESEL ENGINE 6G60ME-C9.5						SHIP NO.	
CYLINDER LINER							
NAME	SKETCH	MATERIAL	SUPPLY PER SHIP		DRAWING NO.	BOX NO.	
			WORKING	SPARE		WEIGHT (kg)	
F-1	 H=3050, D1=860, D2=687	TARKALL-A	1 × cyl	1	231FG		
缸套(不含水套)							
Cylinder liner (excluding cooling jacket)						1×3624.3	
F-2	 D1=795, D2=750, t=1.5	steel	1 × cyl	1	231F15		
垫片							
Gasket						1×0.643	
F-3	 D=652, d=7	5572	1 × cyl	1	231F12		
0型密封圈							
O-ring						1×0.181	
F-4	 D=775, d=8.4	5572	2 × cyl	2	231F21		
0型密封圈							
O-ring						2×0.3	
F-5	 D1=625, D2=598.7, t=18	4CR10SI2M0	1 X cyl	1	231F66		
活塞清洁环							
Piston cleaning ring						1×2.76	
MANUFACTURER		CSSC-MES DIESEL Co. , LTD.				CE056143	

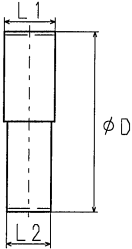
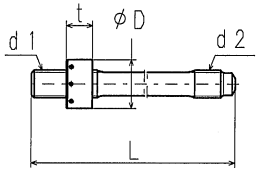
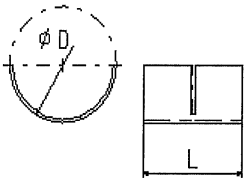
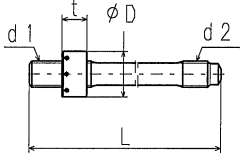
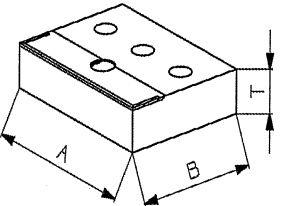
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MAIN DIESEL ENGINE 6G60ME-C9.5						SHIP NO.	
CYLINDER LINER							
NAME	SKETCH	MATERIAL	SUPPLY PER SHIP		DRAWING NO.	BOX NO.	
			WORKING	SPARE		WEIGHT (kg)	
F-6		Steel	8 × cyl	8	231FA		
止回阀							
Non-return valve for lubrication							
	L=161, D2=62					8×0.67	
F-7		Steel	1 × cyl	1	231F2		
缸盖冷却水套							
Cooling jacket for cyl. Cover							
	D=860, H=496					1×157	

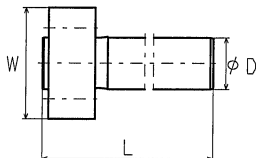
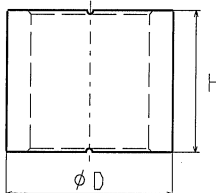
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MAIN DIESEL ENGINE 6G60ME-C9.5						SHIP NO.	
POSTON COMPLETE & STUFFING BOX							
NAME	SKETCH	MATERIAL	SUPPLY PER SHIP		DRAWING NO.	BOX NO.	
			WORKING	SPARE		WEIGHT (kg)	
G-1	 H=3815, D=595.5	Steel	1 × cyl	1	332B		
活塞总成							
Piston complete						1 × 1612.5	
G-2	 D=600, t=14	Cast iron	1 × cyl	1	332B5	For G-1	
活塞环							
Piston ring						2 × 3.6	
G-3	 D=600, t=11	Cast iron	1 × cyl	1	332B6	For G-1	
活塞环							
Piston ring						2 × 2.9	
G-4	 D=600, t=11	Cast iron	1 × cyl	1	332B7	For G-1	
活塞环							
Piston ring						2 × 2.9	
G-5	 D=600, t=11	Cast iron	1 × cyl	1	332B8	For G-1	
活塞环							
Piston ring						2 × 2.9	
MANUFACTURER		CSSC-MES DIESEL Co., LTD.					CE056143

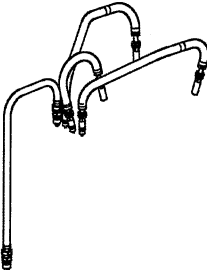
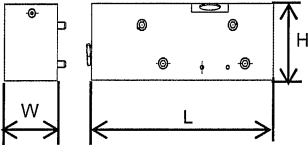
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MAIN DIESEL ENGINE 6G60ME-C9.5						SHIP NO.	
POSTON COMPLETE & STUFFING BOX							
NAME	SKETCH	MATERIAL	SUPPLY PER SHIP		DRAWING NO.	BOX NO.	
			WORKING	SPARE		WEIGHT (kg)	
G-6	 D1=492, D2=404, H=240	Components	1 × cyl	1	332C		
填料函壳体							
Stuffing box (exclude G-7/8/9/10/11/12)						1×97.7	
G-7	 D=380, d=8.4	Rubber	2 × cyl	2	332C14	For G-6	
O型密封圈							
O-ring						2×0.092	
G-8	 D=288, t=10	Steel	2 × cyl	2	332CD	For G-6	
密封环							
Sealing ring complete						2×1.6	
G-9	 D=288, t=10	Steel	2 × cyl	2	332CE	For G-6	
密封环							
Sealing ring complete						2×1.7	
G-10	 D=278, t=20	Steel	3 × cyl	3	332CF	For G-6	
刮油环							
Scraper ring complete						3×1.26	
MANUFACTURER		CSSC-MES DIESEL Co., LTD.					CE056143

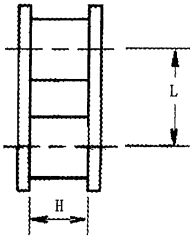
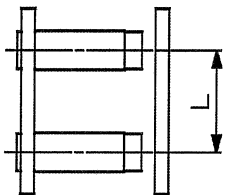
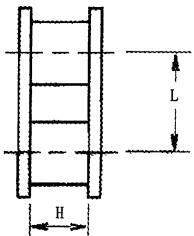
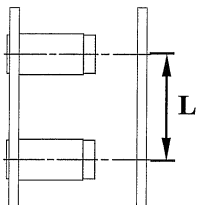
SPARES		CSSC-MES DIESEL Co., LTD.				Page 12	Total 34
MAIN DIESEL ENGINE 6G60ME-C9.5						SHIP NO.	
POSTON COMPLETE & STUFFING BOX							
NAME	SKETCH	MATERIAL	SUPPLY PER SHIP		DRAWING NO.	BOX NO.	
			WORKING	SPARE		WEIGHT (kg)	
G-11		Steel	1 × cyl	1	332CI	For G-6	
刮油环						1×1.6	
Scraper ring complete							
G-12		Steel	1 × cyl	1	332CK	For G-6	
刮油环						1×1.4	
Scraper ring complete							

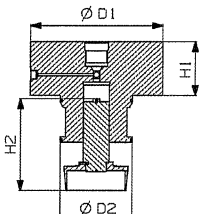
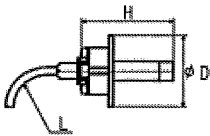
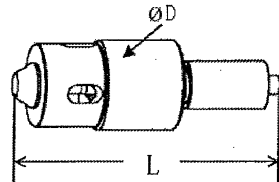
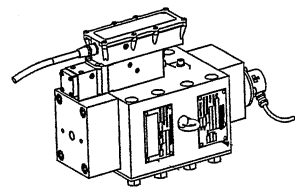
SPARES		CSSC-MES DIESEL Co., LTD.				Page 13	Total 34
MAIN DIESEL ENGINE 6G60ME-C9.5						SHIP NO.	
MAIN & THRUST BEARING							
NAME	SKETCH	MATERIAL	SUPPLY PER SHIP		DRAWING NO.	BOX NO.	
			WORKING	SPARE		WEIGHT (kg)	
H-1	 D=852, L=254	Bearing metal	1×cyl + 2	1	111E		
主轴瓦							
Main bearing shell (UPPER AND LOWER)						1×73.2	
H-2	 L=1011, d1=M64×6, d2=M64×6, t=64, D=115	Steel	4×cyl + 8	4	111D7 111D8		
主轴承螺柱螺母							
Stud and nut for main bearing						4×24.7	
H-3	 L=265, t=100	Steel White metal	1	1	122A4		
推力块 (AH)							
Thrust bearing segment (AH)						1×61.9	
H-4	 L=265, t=100	Steel White metal	15	7	122A3		
推力块 (AH)							
Thrust bearing segment (AH)						7×62.5	
MANUFACTURER						CSSC-MES DIESEL Co., LTD.	CE056143

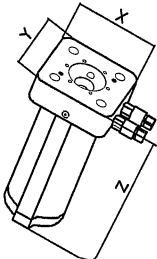
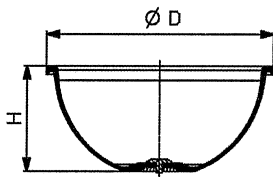
SPARES		CSSC-MES DIESEL Co., LTD.				Page 14	Total 34
MAIN DIESEL ENGINE 6G60ME-C9.5						SHIP NO.	
CRANKPIN & CROSSHEAD BEARING							
NAME	SKETCH	MATERIAL	SUPPLY PER SHIP		DRAWING NO.	BOX NO.	
			WORKING	SPARE		WEIGHT (kg)	
I-1	 L1=254, L2=190, D=934	Bearing metal	1 × cyl	1	311A5		
连杆大端轴瓦							
Crank pin bearing shell (UPPER AND LOWER)						1 × 80.6	
I-2	 L=895, d1=M72 × 6 d2=M72 × 4 t=72, D=125	Steel	2 × cyl	2	311AB13 311AB14		
连杆大端轴承用螺柱螺母							
Stud and nut for crank pin bearing						2 × 52.1	
I-3	 L=638, D=686	Bearing metal	1 × cyl	1	311A9		
十字头下轴瓦							
Crosshead bearing-Lower						1 × 66.2	
I-4	 L=595, d1=M52 × 5 d2=M52 × 5 t=52, D=95	Steel	4 × cyl	4	311AB5 311AB7		
连杆小端轴承用螺柱螺母							
Stud and nut for crosshead bearing						4 × 10.1	
I-5	 A=150, B=110, T=40	Steel	2 X cyl	2	311A11		
止推块							
Thrust piece						2 × 3.8	
MANUFACTURER		CSSC-MES DIESEL Co., LTD.				CE056143	

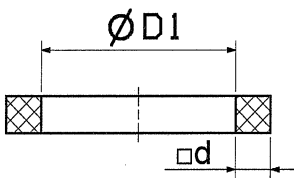
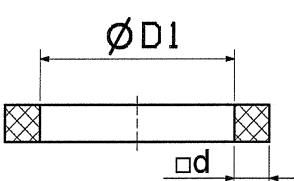
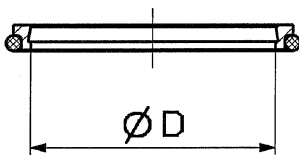
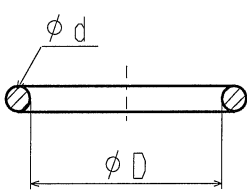
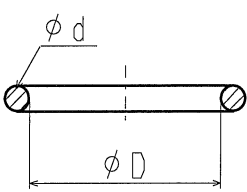
SPARES		CSSC-MES DIESEL Co., LTD.				Page 15	Total 34
MAIN DIESEL ENGINE 6G60ME-C9.5						SHIP NO.	
TELESCOPIC PIPE							
NAME	SKETCH	MATERIAL	SUPPLY PER SHIP		DRAWING NO.	BOX NO.	
			WORKING	SPARE		WEIGHT (kg)	
J-1	 L=3122, W=140, D=75	Steel	1 × cyl	1	311AD		
伸缩套管							
Telescopic pipe						1 × 39.5	
J-2	 H=100, D=120	Bronze	1 × cyl	1	231E8		
衬套 (伸缩套管用)							
Bush for telescopic pipe						1 × 6.19	
MANUFACTURER	CSSC-MES DIESEL Co., LTD.					CE056143	

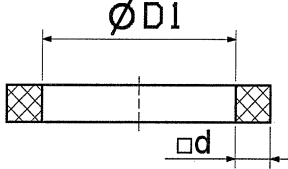
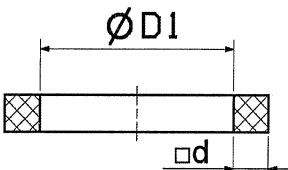
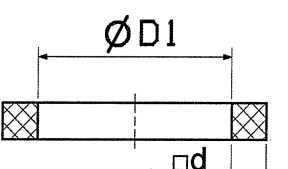
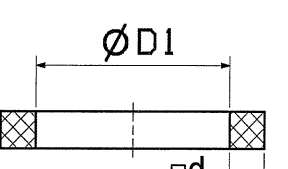
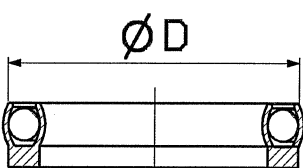
SPARES	CSSC-MES DIESEL Co., LTD.				Page 16	Total 34
MAIN DIESEL ENGINE 6G60ME-C9.5					SHIP NO.	
FUEL OIL HIGH PRESSURE PIPE						
NAME	SKETCH	MATERIAL	SUPPLY PER SHIP		DRAWING NO.	BOX NO.
			WORKING	SPARE		WEIGHT (kg)
K-1		Components	1/each × cyl	1/each	345AE 345AG 345AH 345AI	
高压油管总成						
High pressure pipe complete						85.1
K-2	 L×W×H=475×135×165	Steel	1 × cyl	1	345AL	
分配块						
Distributor block for high pressure pipe						1×76.4
MANUFACTURER	CSSC-MES DIESEL Co., LTD.					CE056143

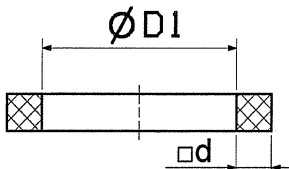
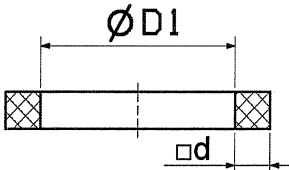
SPARES		CSSC-MES DIESEL Co., LTD.				Page 17	Total 34
MAIN DIESEL ENGINE 6G60ME-C9.5						SHIP NO.	
CHAIN DRIVE							
NAME	SKETCH	MATERIAL	SUPPLY PER SHIP		DRAWING NO.	BOX NO.	
			WORKING	SPARE		WEIGHT (kg)	
L-1	 L=114.3, H=68.6	Steel	63×2 Links	6 Links	421AR2		
内链节							
Inner link						6×6.8	
L-2	 L=114.3	Steel	63×2 Links	6 Links	421AR1		
外链节							
Outer link						6×6.8	
L-3	 L=101.6 H=60.96	Steel	64×1 Links	6 Links	711AR2		
内链节							
Inner link						6×4.85	
L-4	 L=101.6	Steel	64×1 Links	6 Links	711AR1		
外链节							
Outer link						6×4.7	
MANUFACTURER	CSSC-MES DIESEL Co., LTD.					CE056143	

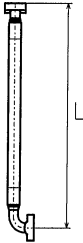
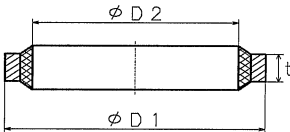
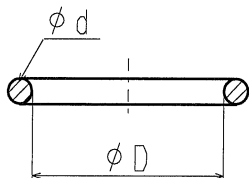
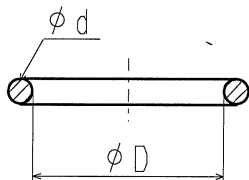
SPARES		CSSC-MES DIESEL Co. , LTD.				Page 18	Total 34
MAIN DIESEL ENGINE 6G60ME-C9.5						SHIP NO.	
HYDRAULIC CYLINDER UNIT (HCU)							
NAME	SKETCH	MATERIAL	SUPPLY PER SHIP		DRAWING NO.	BOX NO.	
			WORKING	SPARE		WEIGHT (kg)	
M-1	 D1=350, D2=190, H1=155, H2=265	Steel	1 × cyl	1	611ACA		
燃油泵泵盖组件							
Top cover complete						1×133.9	
M-2	 H=98, D=80, L=3000	Components	1 × cyl	1	611AC8		
传感器							
Inductive sensor						1×0.7	
M-3	 D=30, L=93	Steel	1 × cyl	1	611ACB		
吸油阀组件							
Suction valve						1×0.27	
M-4		Components	1 × cyl	1	611A78		
FIVA多通阀							
Mult-way valve						1×47.4	
MANUFACTURER		CSSC-MES DIESEL Co. , LTD.				CE056143	

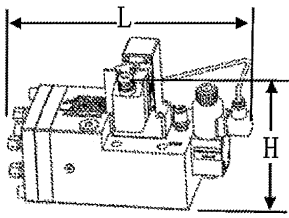
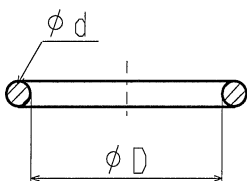
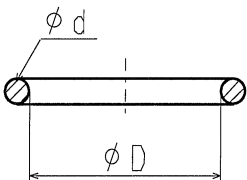
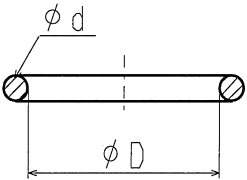
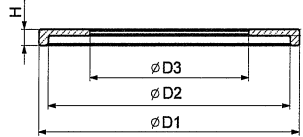
SPARES		CSSC-MES DIESEL Co., LTD.			Page 19	Total 34
MAIN DIESEL ENGINE 6G60ME-C9.5					SHIP NO.	
HYDRAULIC CYLINDER UNIT (HCU)						
NAME	SKETCH	MATERIAL	SUPPLY PER SHIP		DRAWING NO.	BOX NO.
			WORKING	SPARE		WEIGHT (kg)
M-6	 X=240, Y=240, Z=445	Components	1 × cyl	1	611AB	
排气阀驱动机构						
Hydraulic exhaust actuator						
M-7	 D=284, H=129 (10L)	Components	1 × cyl	1	611AI1	1 × 106.4
10L蓄压罐膜瓣						
Diaphragm for accumulatater (10L)						

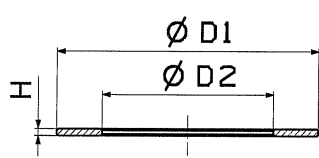
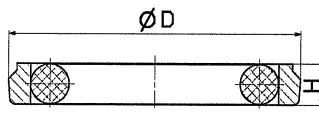
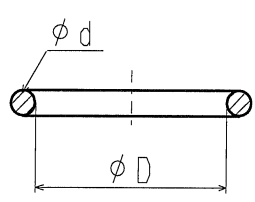
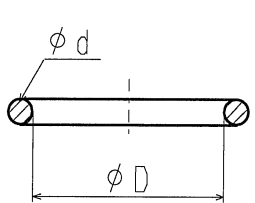
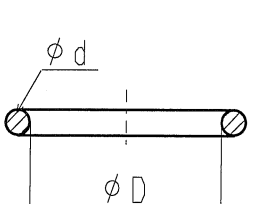
SPARES	CSSC-MES DIESEL Co. , LTD.					Page 20	Total 34
MAIN DIESEL ENGINE 6G60ME-C9.5						SHIP NO.	
HYDRAULIC CYLINDER UNIT (HCU)							
NAME	SKETCH	MATERIAL	SUPPLY PER SHIP		DRAWING NO.	BOX NO.	
			WORKING	SPARE		WEIGHT (kg)	
M-11		NBR	3 × cyl	3	611AB6		
密封圈							
Square-section sealing ring						3×0.005	
M-12		NBR	3 × cyl	3	611AB14		
密封圈							
Square-section sealing ring						3×0.002	
M-13		Components	2 × cyl	2	611AC9		
密封圈							
Sealing ring						2×0.009	
M-14		5572	1 × cyl	1	611AC12		
O型密封圈							
O-ring						1×0.002	
M-15		5572	1 × cyl	1	611AC14		
O型密封圈							
O-ring						1×0.002	
MANUFACTURER	CSSC-MES DIESEL Co. , LTD.					CE056143	

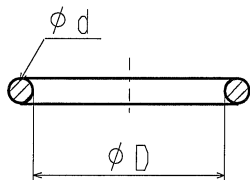
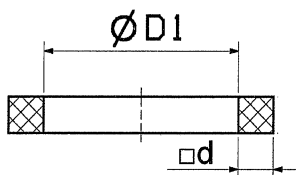
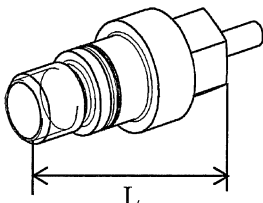
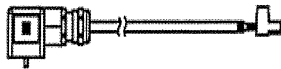
SPARES		CSSC-MES DIESEL Co., LTD.				Page 21	Total 34
MAIN DIESEL ENGINE 6G60ME-C9.5						SHIP NO.	
HYDRAULIC CYLINDER UNIT (HCU)							
NAME	SKETCH	MATERIAL	SUPPLY PER SHIP		DRAWING NO.	BOX NO.	
			WORKING	SPARE		WEIGHT (kg)	
M-16	 D=142.24, d=5.16	NBR	1 × cyl	1	611AC16	1×0.018	
密封圈							
Square-section sealing ring							
M-17	 D=227.97, d=5.16	NBR	1 × cyl	1	611AC18	1×0.04	
密封圈							
Square-section sealing ring							
M-18	 D=31.34, d=3.4	NBR	1 × cyl	1	611AC21	1×0.002	
密封圈							
Square-section sealing ring							
M-19	 D=18.77, d=1.68	NBR	2 × cyl	2	611AC24	2×0.001	
密封圈							
Square-section sealing ring							
M-20	 D=190	5572	2 × cyl	2	611ACA6	2×0.009	
密封圈							
Sealing ring							
MANUFACTURER		CSSC-MES DIESEL Co., LTD.					CE056143

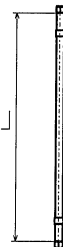
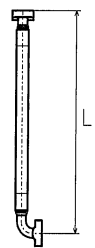
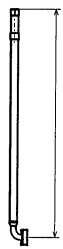
SPARES	CSSC-MES DIESEL Co., LTD.					Page 22	Total 34
MAIN DIESEL ENGINE 6G60ME-C9.5						SHIP NO.	
HYDRAULIC CYLINDER UNIT (HCU)							
NAME	SKETCH	MATERIAL	SUPPLY PER SHIP		DRAWING NO.	BOX NO.	
			WORKING	SPARE		WEIGHT (kg)	
M-21	 D=40.87, d=3.4	NBR	4 × cyl	4	611AF4		
密封圈							
Square-section sealing ring						4×0.002	
M-22	 D=40.87, d=3.4	NBR	1 × cyl	1	611AI6		
密封圈							
Square-section sealing ring						1×0.002	
MANUFACTURER	CSSC-MES DIESEL Co., LTD.					CE056143	

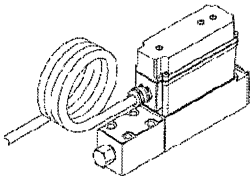
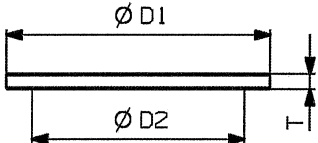
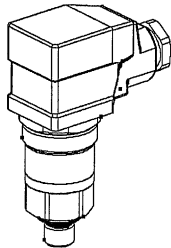
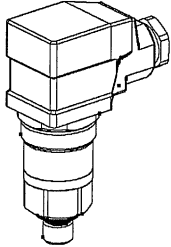
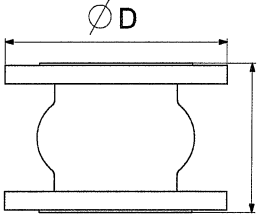
SPARES		CSSC-MES DIESEL Co., LTD.			Page 23	Total 34
MAIN DIESEL ENGINE 6G60ME-C9.5					SHIP NO.	
HYDRAULIC CYLINDER UNIT (HCU)						
NAME	SKETCH	MATERIAL	SUPPLY PER SHIP		DRAWING NO.	BOX NO.
			WORKING	SPARE		WEIGHT (kg)
M-26	 L=570	Components	1 × cyl	1	611D1	
高压软管						
Hose with 2 couplings						1 × 12.4
M-27	 D1=63.5, D2=51.7, t=3.3		2 × cyl +1	2	611D26	
垫圈 (HCU高压管用)						
Gasket, round special, for main hydraulic pipe						2 × 0.025
M-28	 D=24.99, d=3.53	NBR	1 × cyl	1	611D14	
O型密封圈 (HCU高压软管用)						
O-ring for high-presssure hose						1 × 0.002
M-29	 D=32.92, d=3.53	NBR	1 × cyl	1	611D32	
O型密封圈 (HCU高压软管用)						
O-ring for high-presssure hose						1 × 0.002
MANUFACTURER	CSSC-MES DIESEL Co., LTD.					CE056143

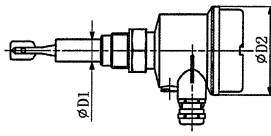
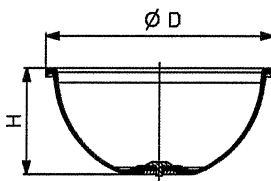
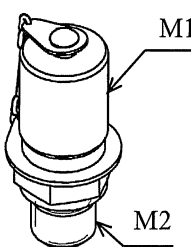
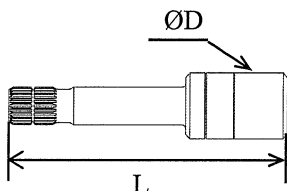
SPARES	CSSC-MES DIESEL Co., LTD.					Page 24	Total 34
MAIN DIESEL ENGINE 6G60ME-C9.5					SHIP NO.		
CYLINDER LUBRICATOR							
NAME	SKETCH	MATERIAL	SUPPLY PER SHIP		DRAWING NO.	BOX NO.	
			WORKING	SPARE		WEIGHT (kg)	
N-1	 L=360, H=260	Components	1 × cyl	1	611AH		
缸套注油器组件							
Lubricator						1×28.93	
N-2	 D=109.5, d=3	5572	1 × cyl	1	611AH13		
0型密封圈							
O-ring						1×0.465	
N-3	 D=10, d=2	5572	1 × cyl	1	611AH14		
0型密封圈							
O-ring						1×0.225	
N-4	 D=15, d=1.5	Viton	8 × cyl	8	611AH15		
0型密封圈							
O-ring						8×0.174	
N-5	 D1=83, D2=77, D3=50.5, H=5	SFjR	1 × cyl	1	611AH27		
Disc special							
垫圈						1×0.07	
MANUFACTURER	CSSC-MES DIESEL Co., LTD.					CE056143	

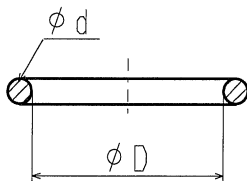
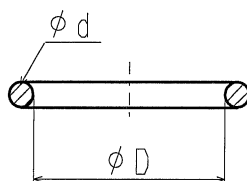
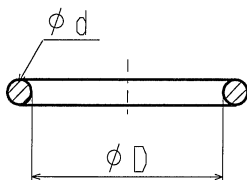
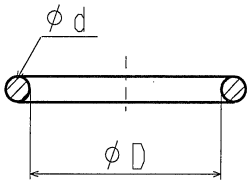
SPARES		CSSC-MES DIESEL Co., LTD.				Page 25	Total 34
MAIN DIESEL ENGINE 6G60ME-C9.5						SHIP NO.	
CYLINDER LUBRICATOR							
NAME	SKETCH	MATERIAL	SUPPLY PER SHIP		DRAWING NO.	BOX NO.	
			WORKING	SPARE		WEIGHT (kg)	
N-6		Components	1 × cyl	1	611AH28		
Disc special							
垫圈							
	D1=77, D2=50.5, H=2					1×0.04	
N-7		NBR	1 × cyl	1	611AH29		
密封圈							
Sealing ring							
	D=22, d=3					1×0.002	
N-8		5560	1 × cyl	1	611AH37B		
O型密封圈							
O-ring							
	D=9, d=1.5					1×0.001	
N-9		5560	8 × cyl	8	611AH45		
O型密封圈							
O-ring							
	D=8.5, d=1					8×0.013	
N-10		5572	1 × cyl	1	611AH46		
O型密封圈							
O-ring							
	D=17.1, d=1.6					1×0.174	
MANUFACTURER		CSSC-MES DIESEL Co., LTD.					CE056143

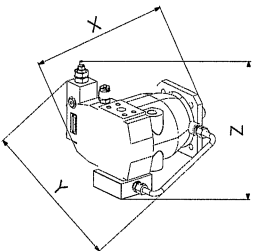
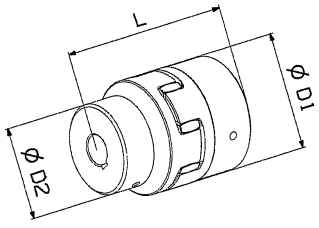
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MAIN DIESEL ENGINE 6G60ME-C9.5						SHIP NO.	
CYLINDER LUBRICATOR							
NAME	SKETCH	MATERIAL	SUPPLY PER SHIP		DRAWING NO.	BOX NO.	
			WORKING	SPARE		WEIGHT (kg)	
N-11	 D=12, d=1.5	5560	1 × cyl	1	611AH47		
0型密封圈							
0-ring						1 × 0.142	
N-12	 D=13.94, d=2.51	NBR	2 × cyl	2	611AH48		
密封圈							
Square-section sealing ring						2 × 0.001	
N-13	 L=35	Components	1 × cyl	1	611AH37		
传感器							
Inductive sensor						1 × 0.04	
N-14	 cable 15m	Components		2	902AR		
注油器应急电缆							
Cable for lubrication back up signal						1 × 0.12	
MANUFACTURER		CSSC-MES DIESEL Co., LTD.				CE056143	

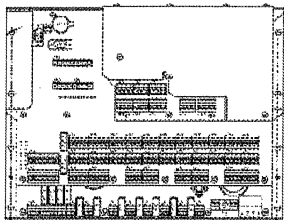
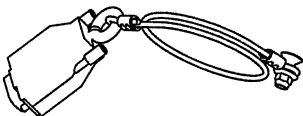
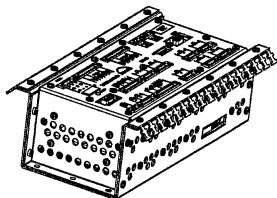
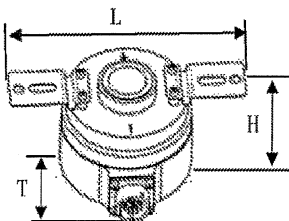
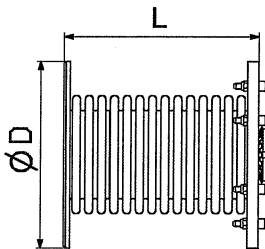
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MAIN DIESEL ENGINE 6G60ME-C9.5						SHIP NO.	
HYDRAULIC POWER SUPPLY (HPS)							
NAME	SKETCH	MATERIAL	SUPPLY PER SHIP		DRAWING NO.	BOX NO.	
			WORKING	SPARE		WEIGHT (kg)	
0-1	 L=660	Components	2	1	613BR30		
高压软管							
Hose with 2 couplings						1×1.7	
0-1	 L=960	Components	2	1	613BR33		
高压软管							
Hose with 2 couplings						1×2.13	
0-2	 L=815	Components	3	1	613B28		
高压软管							
Hose-steel with 2 flanges						1×3.87	
0-3	 L=1050	Components	3	1	613B30		
高压软管							
Hose-steel with 2 flanges						1×4.3	
0-4	 L=840	Components	2	1	613B32		
高压软管							
Hose with 2 couplings						1×2.0	
MANUFACTURER	CSSC-MES DIESEL Co., LTD.					CE056143	

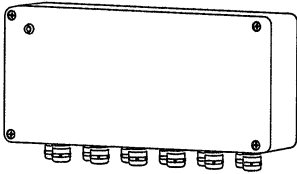
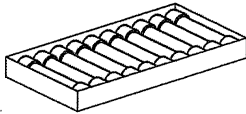
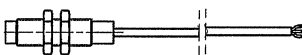
SPARES	CSSC-MES DIESEL Co., LTD.					Page 28	Total 34
MAIN DIESEL ENGINE 6G60ME-C9. 5						SHIP NO.	
HYDRAULIC POWER SUPPLY (HPS)							
NAME	SKETCH	MATERIAL	SUPPLY PER SHIP		DRAWING NO.	BOX NO.	
			WORKING	SPARE		WEIGHT (kg)	
0-6		Components	3	1	612BDA3		
3位4通比例阀							
4/3 way proportional valve						1×10. 4	
0-7	 D1=53, D2=41, T=5	Components	3	1	612BEA3		
垫片							
Disc						1×0. 034	
0-8	 0-400Bar	Components	3	1	613A16		
压力传感器							
Pressure transducer						1×0. 2	
0-9	 0-4Bar	Components	3	1	615ZH2		
压力传感器							
Pressure transducer						1×0. 2	
0-10	 D=130, L=130	Components	3	1	615Z40		
膨胀接头							
Rubber compensator, fluid type						1×7. 68	
MANUFACTURER	CSSC-MES DIESEL Co., LTD.					CE056143	

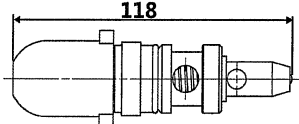
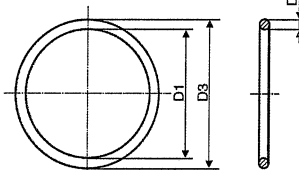
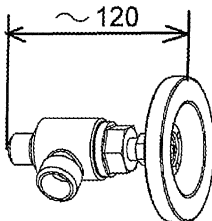
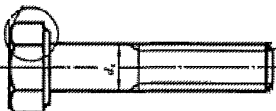
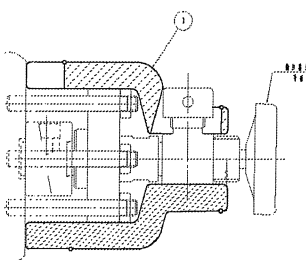
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MAIN DIESEL ENGINE 6G60ME-C9.5						SHIP NO.	
HYDRAULIC POWER SUPPLY (HPS)							
NAME	SKETCH	MATERIAL	SUPPLY PER SHIP		DRAWING NO.	BOX NO.	
			WORKING	SPARE		WEIGHT (kg)	
0-11	 D1=28, D2=100	Components	1	1	612EC2		
液位开关							
Level switch						1×0.001	
0-12	 D=209, H=95 (4L)	Components	3	1	612B97-C		
蓄压罐膜瓣							
Repair kit for accumulator						1×0.2	
0-13	 M1=M16, M2=M14	Components	3	1	612B97-B		
快速接头							
Quick coupling, Minimes						1×0.05	
0-14	 L=340, D=70	Components	3	1	612BEA		
联轴器							
Drive shaft						1×6.6	
MANUFACTURER		CSSC-MES DIESEL Co., LTD.				CE056143	

SPARES		CSSC-MES DIESEL Co., LTD.				Page 30	Total 34
MAIN DIESEL ENGINE 6G60ME-C9.5						SHIP NO.	
HYDRAULIC POWER SUPPLY (HPS)							
NAME	SKETCH	MATERIAL	SUPPLY PER SHIP		DRAWING NO.	BOX NO.	
			WORKING	SPARE		WEIGHT (kg)	
0-16	 D=32.92, d=3.53	NBR	6	1	612BH8		
密封圈							
Square-section sealing ring						1×0.002	
0-17	 D=24.99, d=3.53	NBR	3	1	612BH10		
0型密封圈							
O-ring						1×0.002	
0-18	 D=24.99, d=3.53	NBR	4	1	613B111		
0型密封圈							
O-ring						1×0.006	
0-20	 D=32.92, d=3.53	NBR	17	2	613B18		
0型密封圈							
O-ring						2×0.002	
MANUFACTURER	CSSC-MES DIESEL Co., LTD.					CE056143	

SPARES	CSSC-MES DIESEL Co., LTD.				Page 31	Total 34
MAIN DIESEL ENGINE 6G60ME-C9.5					SHIP NO.	
HYDRAULIC POWER SUPPLY (HPS)						
NAME	SKETCH	MATERIAL	SUPPLY PER SHIP		DRAWING NO.	BOX NO.
			WORKING	SPARE		WEIGHT (kg)
0-21	 X=252, Y=245, Z=230	Components	2	1	615BA4	
起动泵						
Starting up pump						1×7.0
0-22	 D1=94, D2=75, L=126	Components	2	1	615BAA	
爪型连接器						
Claw coupling						1×1.38
MANUFACTURER	CSSC-MES DIESEL Co., LTD.					CE056143

SPARES		CSSC-MES DIESEL Co., LTD.				Page 32	Total 34
MAIN DIESEL ENGINE 6G60ME-C9.5						SHIP NO.	
ENGINE CONTROL UNIT (ECU)							
NAME	SKETCH	MATERIAL	SUPPLY PER SHIP		DRAWING NO.	BOX NO.	
			WORKING	SPARE		WEIGHT (kg)	
P-1	 370×283.4×83.7	Components		1	621AA2		
多用途控制器							
Multi purpose controller (MPC)						1×4.25	
P-2		Components		1	621AA3		
钥匙							
ID-Key						1×0.07	
P-3	 310×140.5×196.8	Components		1	621AA2-A		
多用途控制器							
Multi purpose controller (MPC-10)						1×2.4	
P-4	 L×H×T=154×80×120	Components	2	1	623C1		
角度编码器							
Angle encoder						1×1.00	
P-5	 D=160, L=154	Components	2	1	623C2		
轴承							
Bearing complete						1×3.183	
MANUFACTURER		CSSC-MES DIESEL Co., LTD.					CE056143

SPARES	CSSC-MES DIESEL Co. , LTD.					Page 33	Total 34
MAIN DIESEL ENGINE 6G60ME-C9.5						SHIP NO.	
ENGINE CONTROL UNIT (ECU)							
NAME	SKETCH	MATERIAL	SUPPLY PER SHIP		DRAWING NO.	BOX NO.	
			WORKING	SPARE		WEIGHT (kg)	
P-6	 360×160×91	Components	2	1	623C4		
放大器							
Amplifier						1×4.84	
P-7	 3.15A, Φ5x20, 10 Pcs. 6.3A, Φ5x20, 10 Pcs. 10A, Φ5x20, 10 Pcs. 12.5A, Φ6.3x32, 10 Pcs.	Components		each 1	441U3		
可熔保险丝							
Fuse, cartridge						1×0.15	
P-8	 cable 2m	Components	1	1	441U4		
传感器							
Sensor						1×0.09	
MANUFACTURER	CSSC-MES DIESEL Co. , LTD.					CE056143	

SPARES		CSSC-MES DIESEL Co., LTD.			Page 34	Total 34
MAIN DIESEL ENGINE 6G60ME-C9.5					SHIP NO.	
SHIP OWNER's ADDITIONAL SPARE PARTS 船东额外备件						
NAME	SKETCH	MATERIAL	SUPPLY PER SHIP		DRAWING NO.	BOX NO.
			WORKING	SPARE		WEIGHT (kg)
Q-1		Components	1 × cyl	2	343AU1 343AU901	
安全阀组件						
Safety valve						2×0.25
Q-2	 D1=89.5, D2=5.7, D3=95.5	3590	1 × cyl	2	346A3	
起动阀密封圈						
SEALING RING FOR STARTING VALVE						2×0.005
Q-3		Components	1 × cyl	1	453AE18	
示功阀总成						
Indicator cock						1×1.00
Q-4	 GB/T5782 M14*150	STEEL	16×cyl	16	434B14	
排气阀液压管螺栓						
Bolt for hydraulic pipe connection						16×0.2
Q-5		Components	1 × cyl	2	453B1	
示功阀隔热保护						
Packing for indicator valve						1×0.05
MANUFACTURER		CSSC-MES DIESEL Co., LTD.				CE056143

文件说明 Document Remarks	机 型 Eng. Type	CMD-MAN B&W 6G60ME-C MK9.5
	台 份 Set No.	44#45#46#47#
	工程编号 Engine No.	CE0561Y/562Y/576A/580A
	船 厂 Shipyard	江苏新时代造船有限公司
	Hull No.	0311117/18/19/20
	船级社 Classification Society	ABS

LIST OF TOOLS FOR CMD-MAN B&W 6G60MEC MK9.5 工具清单

△₁ G60MEC-159王勇20180727

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修 改 说 明
Corrected Description

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被替代文件编号 Replace No.		设计参考文件编号 Reference No.		页 数 Pages	总页数 Total Pages	71



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CSSC-MES Diesel Co., Ltd.

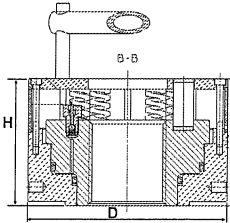
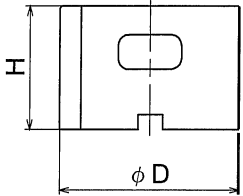
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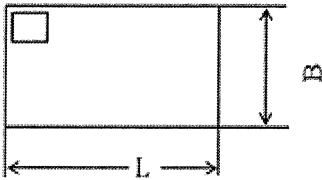
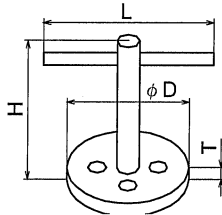
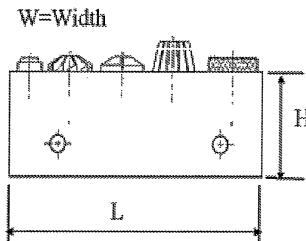
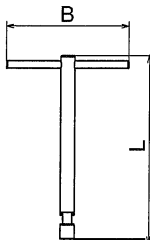
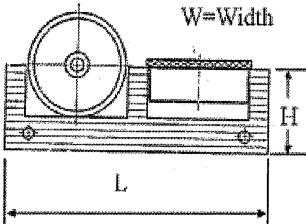
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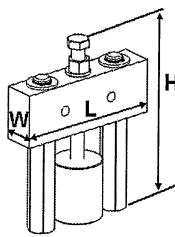
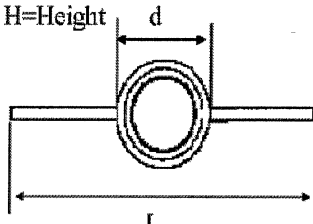
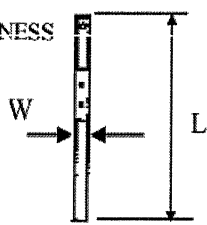
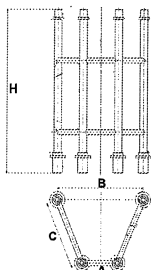
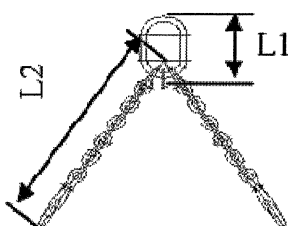
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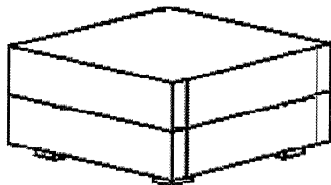
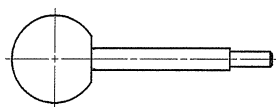
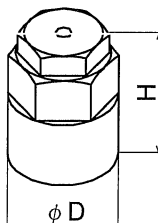
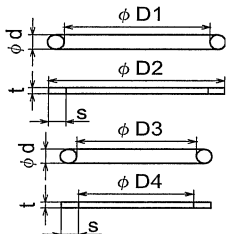
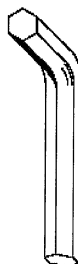
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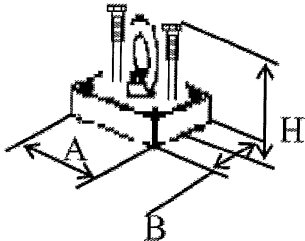
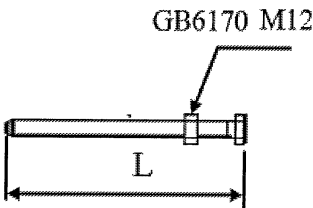
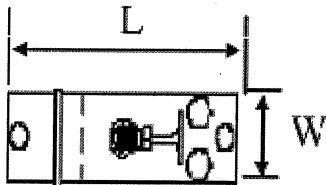
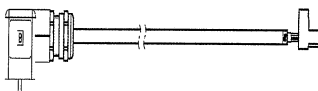
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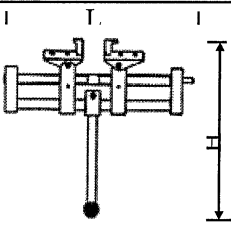
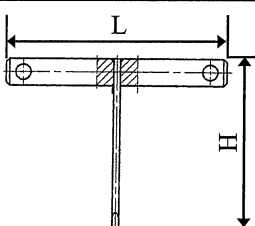
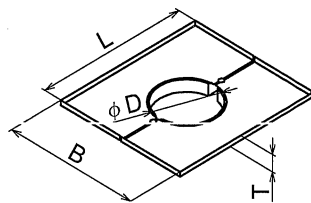
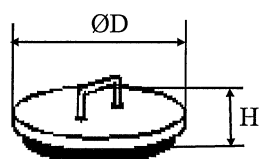
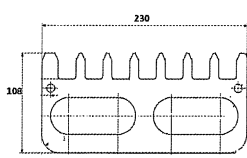
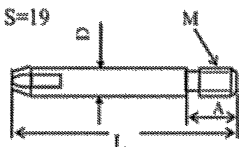
TOOLS				PAGE	01-01
MAIN DIESEL ENGINE 6G60MEC mk9.5				SHIP NO.	
CYLINDER COVER TOOLS				BOX NO.	
NAME 名称	SKETCH 简图	MATERIAL 材料	SUPPLY PER SHIP 数量/船	DRAWING NO. 组立区分号	REMARKS
					WEIGHT重量(kg)
(适用于缸盖)		Components	8	901AA	In the box 装工具箱 (901C)
液压拉伸器					
Hydraulic jack for cylinder cover					D=195,H=123,M68×6
		Steel	8	901AAB	In the box 装工具箱 (901C)
承压圈					
Support for hydraulic jack					D=180, H=97
TOTAL WEIGHT 总重				216.00 kg	
	CSSC-MES DIESEL CO.,LTD.				

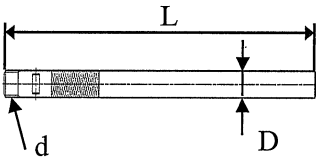
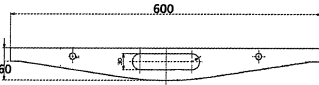
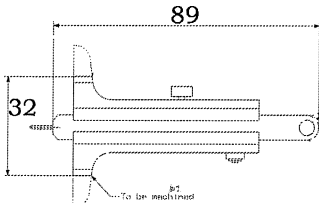
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MAIN DIESEL ENGINE 6G60MEC mk9.5				SHIP NO.	
CYLINDER COVER TOOLS				BOX NO.	
NAME 名称	SKETCH 简图	MATERIAL 材料	SUPPLY PER SHIP 数量/船	DRAWING NO. 组立区分号	REMARKS
					WEIGHT重量(kg)
工具板	 L=1350, B=900	Components	1	901P	
Panel for tools MS901					43.5
排气阀座研磨工具	 L=560, H=1100 D=393, T=40	Components	1	901AI	In the panel 装在工具板 (901P)
Grinding tool for exh. valve seat					27.6
喷油器座研磨工具	 L×H×W=675×75×75	Components	1	901AJ	In the panel 装在工具板 (901P)
Milling and grinding tool for fuel valve seat					2.54
扳手	 L=690, B=210	Steel	1	901AK	In the panel 装在工具板 (901P)
Handle-sunduy					2.8
起动阀座研磨工具	 L×W×H=335×160×100	Components	1	901AL	In the panel 装在工具板 (901P)
Milling and grinding tool for starting valve seat					8.9
TOTAL WEIGHT 总重				85.34 kg	
CSSC-MES DIESEL CO.,LTD.					

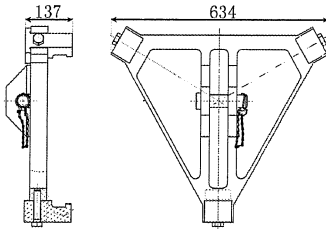
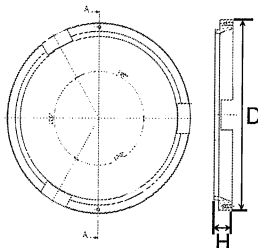
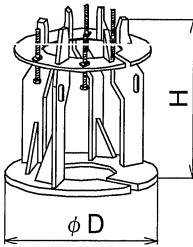
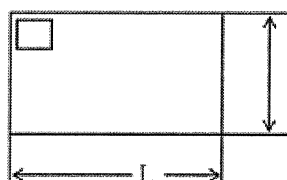
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MAIN DIESEL ENGINE 6G60MEC mk9.5					SHIP NO.	
CYLINDER COVER TOOLS					BOX NO.	
NAME 名称	SKETCH 简图	MATERIAL 材料	SUPPLY PER SHIP 数量/船	DRAWING NO. 组立区分号	REMARKS	
					WEIGHT重量(kg)	
喷油器取出工具		Steel	1	901AN	In the panel 装在工具板 (901P)	
Dism. level for fuel valve					6.2	
	L=180, W=40, B=223					
起动阀壳研磨工具		Steel	1	901AO	In the panel 装在工具板 (901P)	
Grinding ring for starting valve					1.2	
	H=Height d L					
	L=265, H=56 d=Ø95					
起动阀研磨扳手		Steel	1	901AP	In the panel 装在工具板 (901P)	
Pin wrench for starting valve					0.354	
	T=THICKNESS W L					
	L=400,W=20,T=6					
气缸盖架		Steel	1	901AE		
Cylinder cover rack					129.2	
	A=361,B=873,C=668,H=1600					
缸盖起吊链条		Steel	2	901AG		
Lifting chains for cylinder cover					6.14 × 2	
	L1=150, L2=617					
TOTAL WEIGHT 总重					149.20 kg	
CSSC-MES DIESEL CO.,LTD.						

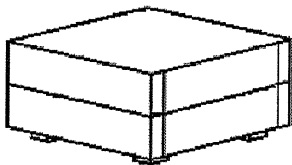
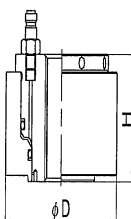
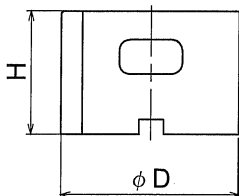
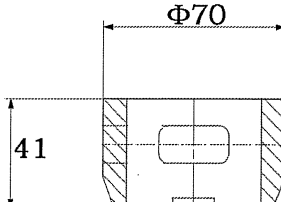
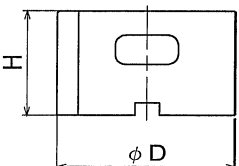
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MAIN DIESEL ENGINE 6G60MEC mk9.5					SHIP NO.	
CYLINDER COVER TOOLS					BOX NO.	
NAME 名称	SKETCH 简图	MATERIAL 材料	SUPPLY PER SHIP 数量/船	DRAWING NO. 组立区分号	REMARKS	
					WEIGHT重量(kg)	
工具箱		Components	1	901C		
Tool box-hydraulic jack for cylinder cover						
					4.3	
球形手柄		Components	1	901CB	In the box 装工具箱 (901C)	
Tommy bar						
					0.1	
拧紧螺母	 H=163, D=110	Steel	1	901CD	In the box 装工具箱 (901C)	
Stud setter M60x4						
					7.5	
带挡圈的密封圈	 D1=134.3,D2=148,D3=94.1, D4=97,d=5.7,t=2,s=5	Components	each 8	901C10 901C3	In the box 装工具箱 (901C)	
Sealing ring with back-up ring						
					0.05 × 8	
内六角扳手		Steel	1	901C4	In the box 装工具箱 (901C)	
Allen wrenches GB5356-85 4MMR						
					0.01	
TOTAL WEIGHT 总重					12.31 kg	
CSSC-MES DIESEL CO.,LTD.						

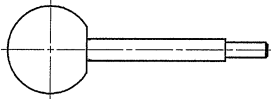
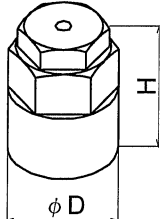
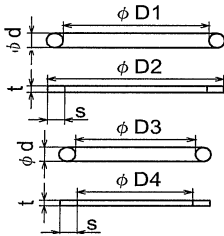
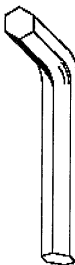
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MAIN DIESEL ENGINE 6G60MEC mk9.5				SHIP NO.	
PISTON+ROD+STUFF.BOX,TOOLS				BOX NO.	
NAME 名称	SKETCH 简图	MATERIAL 材料	SUPPLY PER SHIP 数量/船	DRAWING NO. 组立区分号	REMARKS WEIGHT重量(kg)
	 A=390,B=100,C=194	Steel	1	902AL	In the panel 装在工具板 (902P)
活塞杆起吊工具					
Lifting tool for piston rod foot					15.1
	 L=220	Steel	2	902AM	In the panel 装在工具板 (902P)
填料函拔取工具					
Pulling tool for stuffing box					0.23×2
	 L×W×H=380×150×176	Components	1	902AQ	In the panel 装在工具板 (902P)
压力试验工具					
Pressure test tool, piston					14.7
	 cable length=15m	Components	1	902AR	
电缆					
Cable					0.12
TOTAL WEIGHT 总重				30.38 kg	
	CSSC-MES DIESEL CO.,LTD.				

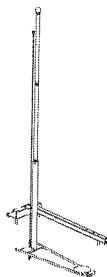
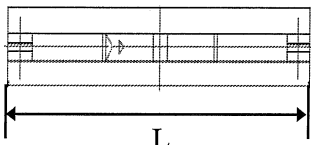
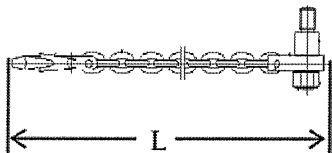
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MAIN DIESEL ENGINE 6G60MEC mk9.5				SHIP NO.	
PISTON+ROD+STUFF.BOX,TOOLS				BOX NO.	
NAME 名称	SKETCH 简图	MATERIAL 材料	SUPPLY PER SHIP 数量/船	DRAWING NO. 组立区分号	REMARKS WEIGHT重量(kg)
活塞环拆装工具	 L=332.5,H=292.5	Steel	1	902AU	In the panel 装在工具板 (902P)
Piston ring expander					3.1
弹簧安装工具	 L=130,H=100	Steel	2	902AX	In the panel 装在工具板 (902P)
Mounting tool, stuffing box springs					0.2 × 2
填料函拆装工作台	 L=700,B=520,T=47,D=235	Steel	1	902AY	In the panel 装在工具板 (902P)
Work table for stuffing box					16.5
填料函孔防护盖	 D=438,H=44	Steel	1	902AZ	In the panel 装在工具板 (902P)
Cover for stuffing box hole					7.67
填料函导板	 T=5	Steel	3	902A20	In the panel 装在工具板 (902P)
Gauge stuffing box					0.527
导向螺栓	 L=225,D=Ø28, A=34,M=m27×2	Steel	1	902A48	In the panel 装在工具板 (902P)
Guide screw, piston crown					0.99
TOTAL WEIGHT 总重				29.19 kg	
CSSC-MES DIESEL CO.,LTD.					

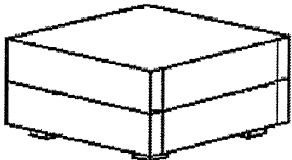
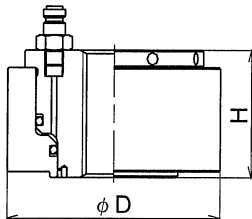
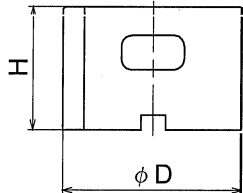
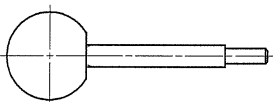
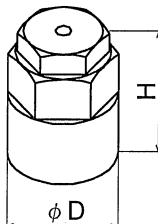
TOOLS				PAGE	02-03
MAIN DIESEL ENGINE 6G60MEC mk9.5				SHIP NO.	
PISTON+ROD+STUFF.BOX,TOOLS				BOX NO.	
NAME 名称	SKETCH 简图	MATERIAL 材料	SUPPLY PER SHIP 数量/船	DRAWING NO. 组立区分号	REMARKS WEIGHT重量(kg)
定距杆	 D=Ø24, L=660, d=M24	Steel	4	902A55	In the panel 装在工具板 (902P)
distance pipe, stuffing box					2.35 × 4
活塞样板	 T=3	Steel	1	902A71	In the panel 装在工具板 (902P)
Template, piston top					0.543
卡尺	 To be machined	Steel	1	902A22	In the panel 装在工具板 (902P)
Slide caliper					0.2
TOTAL WEIGHT 总重				10.14 kg	
	CSSC-MES DIESEL CO.,LTD.				

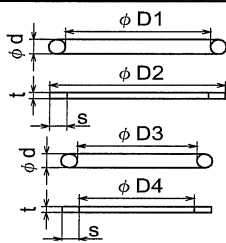
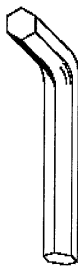
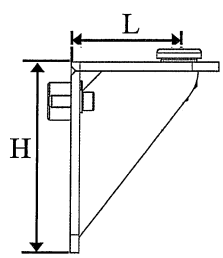
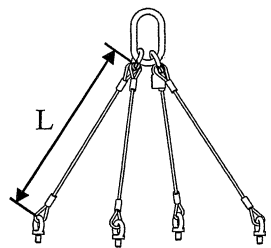
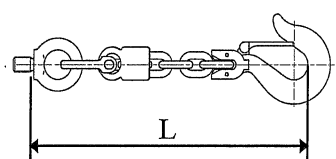
TOOLS				PAGE	02-04
MAIN DIESEL ENGINE 6G60MEC mk9.5				SHIP NO.	
PISTON+ROD+STUFF.BOX,TOOLS				BOX NO.	
NAME 名称	SKETCH 简图	MATERIAL 材料	SUPPLY PER SHIP 数量/船	DRAWING NO. 组立区分号	REMARKS
					WEIGHT重量(kg)
活塞起吊工具		Steel	1	902AI	
Lifting tool, piston					39
活塞导向环	 D=700,H=70	Steel	1	902H	
Guide ring for piston					32.76
活塞支座	 D=660,H=1223	Steel	2	902AN	
Support for piston					74.3×2
工具放置板	 L=1800, B=900	Components	1	902P	
Panel for tools MS902					63.1
TOTAL WEIGHT 总重				283.46 kg	
	CSSC-MES DIESEL CO.,LTD.				

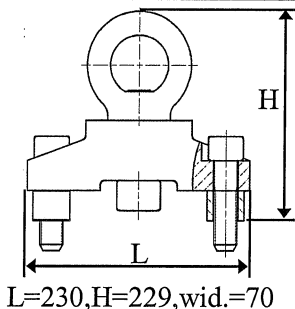
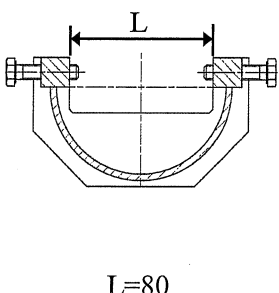
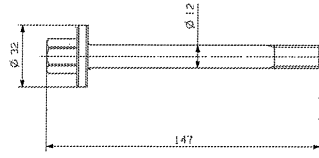
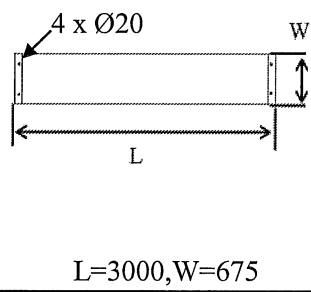
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MAIN DIESEL ENGINE 6G60MEC mk9.5				SHIP NO.	
CONNECTING ROD+CROSSHEAD TOOLS				BOX NO.	
NAME 名称	SKETCH 简图	MATERIAL 材料	SUPPLY PER SHIP 数量/船	DRAWING NO. 组立区分号	REMARKS
					WEIGHT重量(kg)
工具箱		Components	1	902J	
Tools box					
					11.5
适用于十字头螺栓， HCU螺柱，活塞头	 M27×3 D=85,H=128	Components	4	902JB	In the box 装工具箱 (902J)
液压拉伸器					
Hydraulic jack for crosshead					
					4.74 × 4
承压圈	 D=70,H=50	Steel	4	902JC	In the box 装工具箱 (902J)
Support for hydraulic jack					
					0.6× 4
承压圈	 Φ70 41	Steel	4	902JG	In the box 装工具箱 (902J)
Support for hydraulic jack					
					0.45× 4
承压圈	 D=70,H=41	Steel	4	902JI	In the box 装工具箱 (902J)
Support for hydraulic jack					
					0.56× 4
TOTAL WEIGHT 总重				36.90 kg	
CSSC-MES DIESEL CO.,LTD.					

TOOLS					PAGE	02-06
MAIN DIESEL ENGINE 6G60MEC mk9.5					SHIP NO.	
CONNECTING ROD+CROSSHEAD TOOLS					BOX NO.	
NAME 名称	SKETCH 简图	MATERIAL 材料	SUPPLY PER SHIP 数量/船	DRAWING NO. 组立区分号	REMARKS	
					WEIGHT重量(kg)	
球形手柄		Components	1	902JD	In the box 装工具箱 (902J)	
Tommy bar					0.09	
拧紧螺母	 H=105, D=50, M27×3	Steel	1	902JF	In the box 装工具箱 (902J)	
Stud setter					0.9	
带挡圈的密封圈	 D1=44.2,D2=57,D3=34.2, D4=35,d=5.7,t=2,s=5	Components	each 4	902J6 902J5	In the box 装工具箱 (902J)	
Sealing ring with back-up ring					0.02×4	
内六角扳手		Steel	1	902J8	In the box 装工具箱 (902J)	
Allen wrenches GB5356-85 4MMR					0.01	
TOTAL WEIGHT 总重					1.08 kg	
	CSSC-MES DIESEL CO.,LTD.					

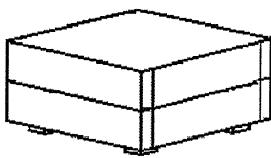
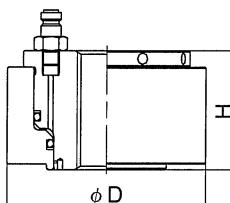
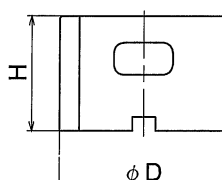
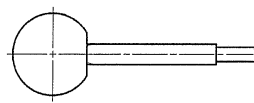
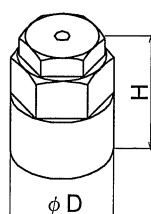
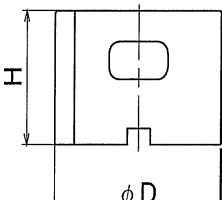
TOOLS				PAGE	03-01
MAIN DIESEL ENGINE 6G60MEC mk9.5				SHIP NO.	
CYLINDER LINER,TOOLS				BOX NO.	
NAME 名称	SKETCH 简图	MATERIAL 材料	SUPPLY PER SHIP 数量/船	DRAWING NO. 组立区分号	REMARKS
		Components	1	903AC	
缸径规					
Measuring tool for cylinder liner					15.40
	 L=1015	Steel	1	903AH	
气缸套横向杆					
Cross bar for cylinder liner					42.5
	 L=1168	Steel	2	903AL	In the panel 装在工具板 (902P)
气缸套提升工具					
Lifting tool for cylinder liner					5.7×2
TOTAL WEIGHT 总重				69.30 kg	
	CSSC-MES DIESEL CO.,LTD.				

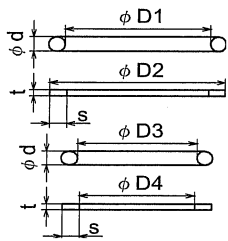
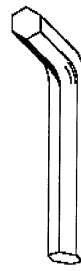
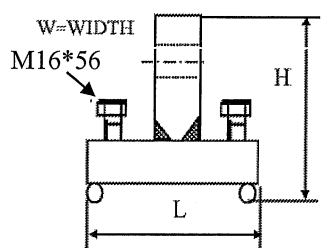
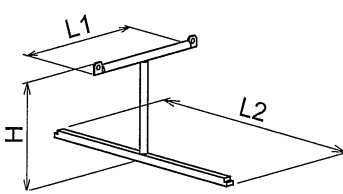
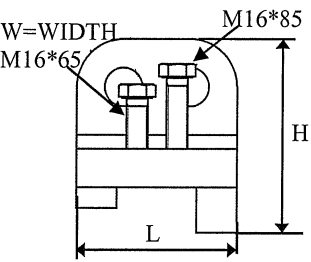
TOOLS				PAGE	04-01
MAIN DIESEL ENGINE 6G60MEC mk9.5				SHIP NO.	
CONNECTING ROD+CROSSHEAD TOOLS				BOX NO.	
NAME 名称	SKETCH 简图	MATERIAL 材料	SUPPLY PER SHIP 数量/船	DRAWING NO. 组立区分号	REMARKS
		Components	1	904AA	WEIGHT重量(kg)
工具箱					
Tools box					11.5
十字头螺栓	 M52×5 D=147,H=111	Components	4	904AAB	In the box 装工具箱 (904AA)
液压拉伸器					
Hydraulic jack for crosshead					10.76 × 4
承压圈	 D=135,H=68	Steel	4	904AAC	In the box 装工具箱 (904AA)
Support for hydraulic jack					
					3.2 × 4
球形手柄		Components	1	904AAD	In the box 装工具箱 (904AA)
Tommy bar					
					0.09
拧紧螺母	 H=136, D=95, M52×5	Steel	1	904AAE	In the box 装工具箱 (904AA)
Stud setter					
					4.6
TOTAL WEIGHT 总重				72.03 kg	
CSSC-MES DIESEL CO.,LTD.					

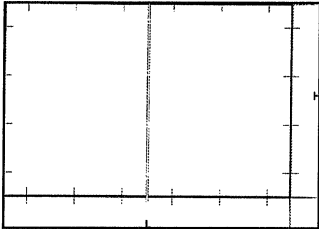
TOOLS				PAGE	04-02
MAIN DIESEL ENGINE 6G60MEC mk9.5				SHIP NO.	
CONNECTING ROD+CROSSHEAD TOOLS				BOX NO.	
NAME 名称	SKETCH 简图	MATERIAL 材料	SUPPLY PER SHIP 数量/船	DRAWING NO. 组立区分号	REMARKS WEIGHT重量(kg)
带挡圈的密封圈	 D1=99.1,D2=113,D3=64.2, D4=67,d=5.7,t=2,s=5	Components	each 8	904AA5 904AA6	In the box 装工具箱 (904AA)
Sealing ring with back-up ring					0.034×4
内六角扳手		Steel	1	904AA9	In the box 装工具箱 (904AA)
Allen wrenches GB5356-85 4MMR					0.01
十字头支架	 L=109,H=254	Steel	2	904AH	In the panel 装在工具板 (904P)
Bracket, support of crosshead					11.4 × 2
起吊钢丝	 L=600	Components	1	904AI	In the panel 装在工具板 (904P)
Wire sling					3.92
吊活塞链条	 L=439	Steel	2	904AK	In the panel 装在工具板 (904P)
Chain for suspending piston					2.26 × 2
TOTAL WEIGHT 总重				31.39 kg	
CSSC-MES DIESEL CO.,LTD.					

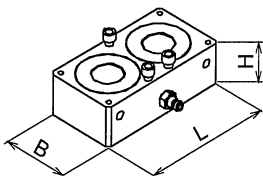
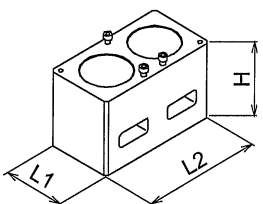
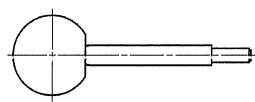
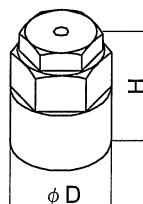
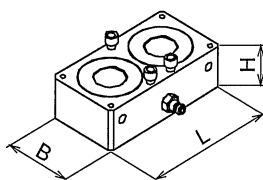
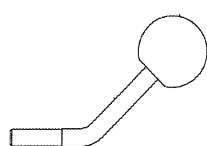
TOOLS			PAGE	04-03	
MAIN DIESEL ENGINE 6G60MEC mk9.5			SHIP NO.		
CONNECTING ROD+CROSSHEAD TOOLS			BOX NO.		
NAME 名称	SKETCH 简图	MATERIAL 材料	SUPPLY PER SHIP 数量/船	DRAWING NO. 组立区分号	REMARKS WEIGHT重量(kg)
十字头起吊工具	 L=230,H=229,wid.=70	Steel	1	904AM	In the panel 装在工具板 (904P)
Lifting tool for crosshead					8.13
绳索导向座	 L=80	Steel	1	904AN	In the panel 装在工具板 (904P)
Wire gudie					1.7
伸缩工具	 147 12	Steel	2	904A8	In the panel 装在工具板 (904P)
Ret. tool telescope pipe					0.17 × 2
十字头罩盖	 L=3000,W=675	Rubber	1	904A70	In the panel 装在工具板 (904P)
Rubber cover for crosshead					3
TOTAL WEIGHT 总重			13.17 kg		
CSSC-MES DIESEL CO.,LTD.					

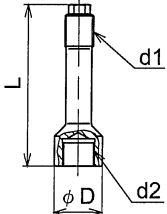
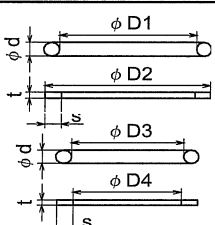
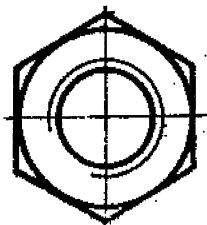
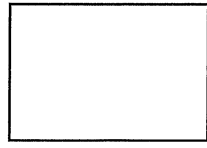
TOOLS				PAGE	04-04
MAIN DIESEL ENGINE 6G60MEC mk9.5				SHIP NO.	
CONNECTING ROD+CROSSHEAD TOOLS				BOX NO.	
NAME 名称	SKETCH 简图	MATERIAL 材料	SUPPLY PER SHIP 数量/船	DRAWING NO. 组立区分号	REMARKS WEIGHT重量(kg)
十字头罩盖	L=2840,W=490	Rubber	1	904A69	In the panel 装在工具板 (904P)
Rubber cover for crosshead					2.1
偏心转矩扳手	B=Ø48,H=30	Steel	1	904A86	In the panel 装在工具板 (904P)
Torque wrench offset tool					0.21
防护螺栓	D=72,M16	Steel	2	904A88	In the panel 装在工具板 (904P)
Protective screw					0.27
吊耳	D4=65,D2=35,L=24,M16,E=35	Steel	2	904A90	In the panel 装在工具板 (904P)
Eye bolt					0.35
TOTAL WEIGHT 总重				2.93 kg	
	CSSC-MES DIESEL CO.,LTD.				

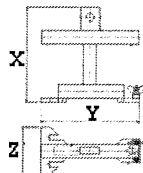
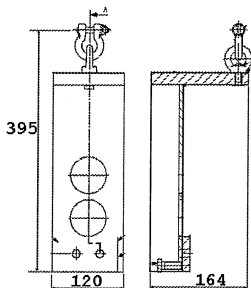
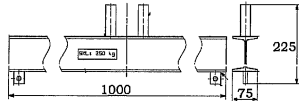
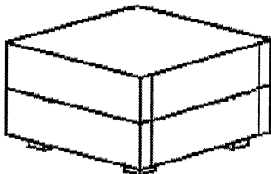
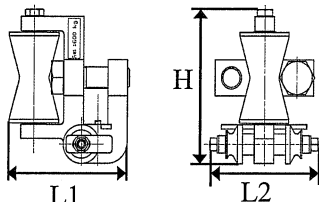
TOOLS				PAGE	04-05
MAIN DIESEL ENGINE 6G60MEC mk9.5				SHIP NO.	
CONNECTING ROD+CROSSHEAD TOOLS				BOX NO.	
NAME 名称	SKETCH 简图	MATERIAL 材料	SUPPLY PER SHIP 数量/船	DRAWING NO. 组立区分号	REMARKS
					WEIGHT重量(kg)
工具箱		Components	1	904BA	
Tools box					1.6
连杆大端		Components	2	904BAC	In the box 装工具箱 (904BA)
液压拉伸器					19.8 × 2
Hydraulic jack	M72×6 D=206,H=105				
承压圈		Steel	2	904BAD	In the box 装工具箱 (904BA)
Support for hydraulic jack					11.2 × 2
承压圈					
球形手柄		Components	1	904BAE	In the box 装工具箱 (904BA)
Tommy bar					0.1
拧紧螺母		Steel	1	904BAF	In the box 装工具箱 (904BA)
Stud setter					7.73
承压圈		Steel	1	904BAJ	In the box 装工具箱 (904BA)
Support for hydraulic jack					9.76
TOTAL WEIGHT 总重				81.19 kg	
CSSC-MES DIESEL CO.,LTD.					

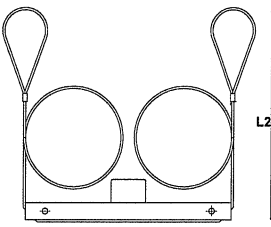
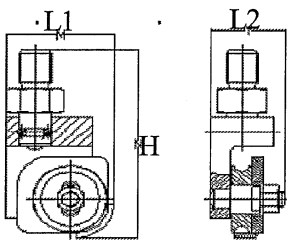
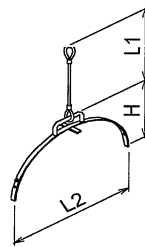
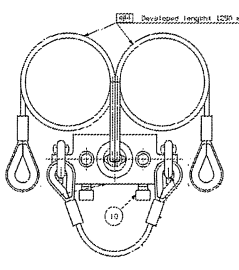
TOOLS				PAGE	04-06
MAIN DIESEL ENGINE 6G60MEC mk9.5				SHIP NO.	
CONNECTING ROD+CROSSHEAD TOOLS				BOX NO.	
NAME 名称	SKETCH 简图	MATERIAL 材料	SUPPLY PER SHIP 数量/船	DRAWING NO. 组立区分号	REMARKS WEIGHT重量(kg)
带挡圈的密封圈	 D1=144.3,D2=159,D3=94.1, D4=96,d=5.7,t=2,s=5	Components	each 4	904BA5 904BA6	In the box 装工具箱 (904BA)
Sealing ring with back-up ring					0.048 × 2
内六角扳手		Steel	1	904BA14	In the box 装工具箱 (904BA)
Allen wrenches GB5356-85 4MMR					0.01
连杆起吊工具	 L=135,W=150,H=123	Steel	2	904BE	In the panel 装在工具板 (904P)
Lift. Attachment connecting rod					6.13 × 2
连杆大端轴承起吊工具	 L1=360,L2=940,H=497	Steel	1	904BF	
Lifting tool for crankpin shell					5.5
连杆起吊工具	 L=135,W=175,H=147	Steel	2	904BH	
Lift. Attachment connecting rod					7.4 × 2
TOTAL WEIGHT 总重				32.67 kg	
CSSC-MES DIESEL CO.,LTD.					

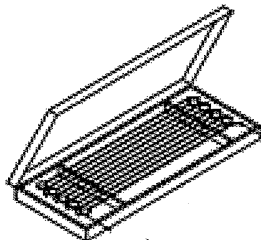
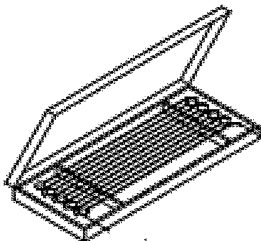
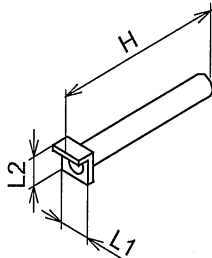
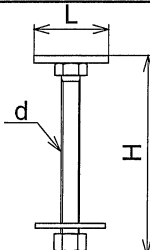
TOOLS				PAGE	04-07
MAIN DIESEL ENGINE 6G60MEC mk9.5				SHIP NO.	
CONNECTING ROD+CROSSHEAD TOOLS				BOX NO.	
NAME 名称	SKETCH 简图	MATERIAL 材料	SUPPLY PER SHIP 数量/船	DRAWING NO. 组立区分号	REMARKS
					WEIGHT重量(kg)
	 900x900	Steel	1	904P	
工具板					
Panel for tools MS904					34.9
TOTAL WEIGHT 总重				34.90 kg	
	CSSC-MES DIESEL CO.,LTD.				

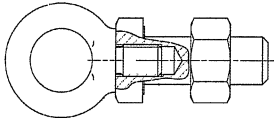
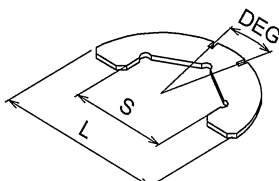
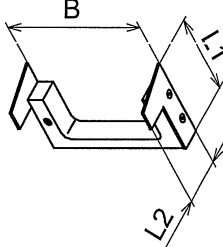
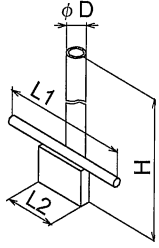
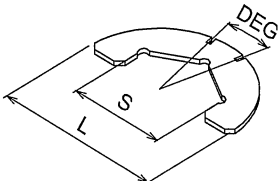
TOOLS				PAGE	05-01
MAIN DIESEL ENGINE 6G60MEC mk9.5				SHIP NO.	
CRANKSH.+THRUST BRG. TOOLS				BOX NO.	
NAME 名称	SKETCH 简图	MATERIAL 材料	SUPPLY PER SHIP 数量/船	DRAWING NO. 组立区分号	REMARKS WEIGHT重量(kg)
主轴承螺柱		Components	2	905AAB	In the box 装工具箱 (905AA)
液压拉伸器					
Hydraulic jack					30.4 × 2
	M64×6,L=270,B=160,H=141				
承压圈		Components	2	905AAC	In the box 装工具箱 (905AA)
Support for hydraulic jack					33.3 × 2
					L1=160,L2=260,H=220
球形手柄		Components	1	905AAD	In the box 装工具箱 (905AA)
Tommy bar					0.1 × 2
拧紧螺母		Steel	1	905AAE	In the box 装工具箱 (905AA)
Stud setter					7.65 × 2
					H=163, D=110, M64×6
主轴承螺柱		Components	2	905AAF	In the box 装工具箱 (905AA)
液压拉伸器					
Hydraulic jack					20.6 × 2
	M64×6, L=270,B=160,H=112				
球形手柄		Components	1	905AAG	In the box 装工具箱 (905AA)
Tommy bar					0.1
TOTAL WEIGHT 总重				161.40 kg	
	CSSC-MES DIESEL CO.,LTD.				

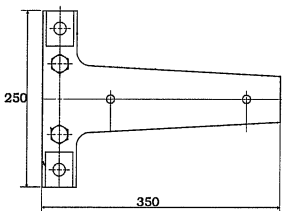
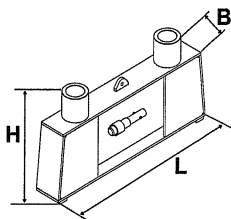
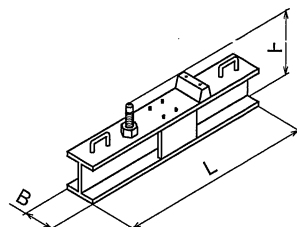
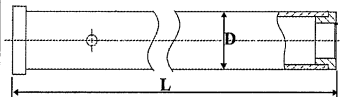
TOOLS					PAGE	05-02
MAIN DIESEL ENGINE 6G60MEC mk9.5					SHIP NO.	
CRANKSH.+THRUST BRG. TOOLS					BOX NO.	
NAME 名称	SKETCH 简图	MATERIAL 材料	SUPPLY PER SHIP 数量/船	DRAWING NO. 组立区分号	REMARKS	
					WEIGHT重量(kg)	
伸长螺柱	 d1=M60×5.5, d2=M64×6 D=115, L=410	Steel	4	905AAH	In the box 装工具箱 (905AA)	
Extension Stud. reduced shank					12.2 × 4	
内六角扳手		Steel	1	905AA9	In the box 装工具箱 (905AA)	
Allen wrenches GB5356-85 4MMR					0.01	
带挡圈的密封圈	 D1=104.1, D2=115, D3=79.2, D4=83, d=5.7, t=2, s=5	Components	each 8	905AA19 905AA20	In the box 装工具箱 (905AA)	
Sealing ring with back-up ring					0.037 × 8	
螺母	 M60×5.5	Steel	4	905AA18	In the box 装工具箱 (905AA)	
Nut					2.8 × 4	
铭牌	 301x214x1	Plastic	Each:1 Total:3	905AA10 905AA31 905AA32	In the box 装工具箱 (905AA)	
Name plate					0.1 × 3	
TOTAL WEIGHT 总重					57.33 kg	
CSSC-MES DIESEL CO.,LTD.						

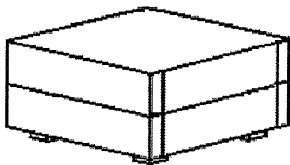
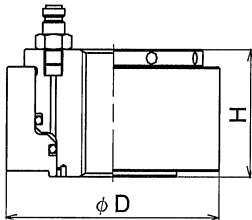
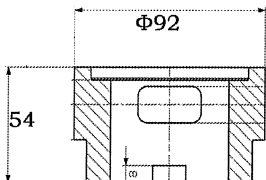
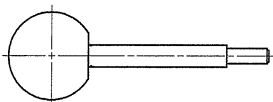
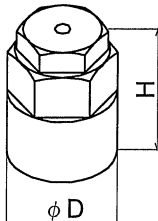
TOOLS				PAGE	05-03
MAIN DIESEL ENGINE 6G60MEC mk9.5				SHIP NO.	
CRANKSH.+THRUST BRG. TOOLS				BOX NO.	
NAME 名称	SKETCH 简图	MATERIAL 材料	SUPPLY PER SHIP 数量/船	DRAWING NO. 组立区分号	REMARKS
					WEIGHT重量(kg)
提升架	 X=101,y=141,Z=70	Steel	2	905AAI	In the box 装工具箱 (905AA)
Lifting tools					1.0 × 2
提升架	 395 120 164	Steel	2	905AAK	In the box 装工具箱 (905AA)
Lifting attachment					7.4 × 2
提升架	 1000 225 75	Steel	1	905AAL	In the box 装工具箱 (905AA)
Lifting tools					14
工具箱		Components	1	905AA	
Tools box					18.9
主轴承提升工具	 L1 L2 H L1=180,L2=166,H=216	Components	1	905AI	In the panel 装在工具板 (905P)
Pulley for wire for main bearing					9.2
TOTAL WEIGHT 总重				57.76 kg	
	CSSC-MES DIESEL CO.,LTD.				

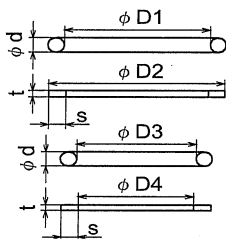
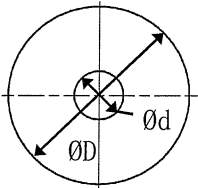
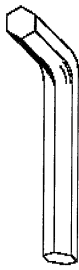
TOOLS				PAGE	05-04
MAIN DIESEL ENGINE 6G60MEC mk9.5				SHIP NO.	
CRANKSH.+THRUST BRG. TOOLS				BOX NO.	
NAME 名称	SKETCH 简图	MATERIAL 材料	SUPPLY PER SHIP 数量/船	DRAWING NO. 组立区分号	REMARKS
					WEIGHT重量(kg)
主轴承拆卸工具	 L1=256,L2=3000	Components	1	905AK	In the panel 装在工具板 (905P)
Dismantling tool for main bearing shell					0.49
主轴承提升工具	 L1=100,L2=75,H=210	Components	1	905AM	In the panel 装在工具板 (905P)
Pulley for wire for main bearing					6.65
主轴承瓦提升工具	 L1=2000,L2=856,H=429.5	Components	1	905AN	In the panel 装在工具板 (905P)
Lifting tool for main bearing shell					2.2
轴承盖提升工具	 Length=1250	Components	1	905AO	In the panel 装在工具板 (905P)
Lifting tool for main bearing cap					4.94
TOTAL WEIGHT 总重				14.28 kg	
	CSSC-MES DIESEL CO.,LTD.				

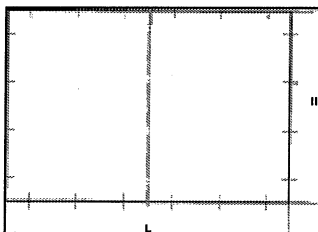
TOOLS					PAGE	05-05
MAIN DIESEL ENGINE 6G60MEC mk9.5					SHIP NO.	
CRANKSH.+THRUST BRG. TOOLS					BOX NO.	
NAME 名称	SKETCH 简图	MATERIAL 材料	SUPPLY PER SHIP 数量/船	DRAWING NO. 组立区分号	REMARKS	
					WEIGHT重量(kg)	
厚薄规		Components	1	905AS	thickness: 0.05, 0.10, 0.15, 0.20, 0.25, 0.30, 0.35	
Feeler gauge set						
					2.38	
厚薄规		Components	1	905AT	thickness: 0.40, 0.45, 0.50, 0.55, 0.60, 0.65, 0.70	
Feeler gauge set						
					2.4	
主轴瓦固定工具	 L1=90,L2=98.5,H=558	Steel	2	905AX	In the panel 装在工具板 (905P)	
Retaining tool for main bearing shell						
					5.53 × 2	
防爆门提升工具	 L=150,H=388,d=M20	Steel	1	905A25	In the panel 装在工具板 (905P)	
Lifting tool for relief valve						
					1.13	
TOTAL WEIGHT 总重					16.97 kg	
CSSC-MES DIESEL CO.,LTD.						

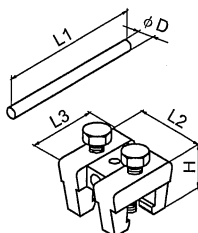
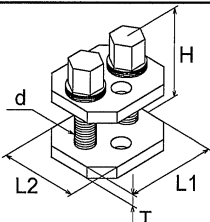
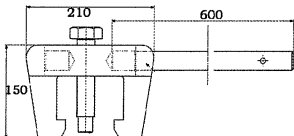
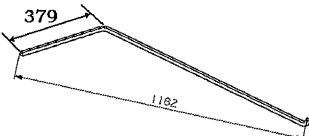
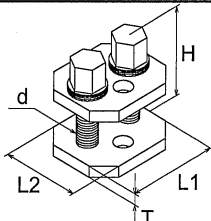
TOOLS					PAGE	05-06
MAIN DIESEL ENGINE 6G60MEC mk9.5					SHIP NO.	
CRANKSH.+THRUST BRG. TOOLS					BOX NO.	
NAME 名称	SKETCH 简图	MATERIAL 材料	SUPPLY PER SHIP 数量/船	DRAWING NO. 组立区分号	REMARKS	
					WEIGHT重量(kg)	
吊环螺钉	 M=30	Steel	1	905A27	In the panel 装在工具板 (905P)	
Eye bolt						1.37
紧固卡板	 L=70,S=46,DEG=40°	Steel	1	905A28	In the panel 装在工具板 (905P)	
Tightn. Template A.V.D						0.02
轴瓦安装工具	 B=261,L1=130,L2=60	Steel	1	905A58	In the panel 装在工具板 (905P)	
mounting tool for thin bearing shell						3.68
薄壁轴瓦安装工具	 L1=180,L2=70,H=620,D=20	Steel	1	905A59	In the panel 装在工具板 (905P)	
mounting tool for thin bearing shell						1.4
紧固卡板	 L=90,S=55,DEG=45°	Steel	1	905A71	In the panel 装在工具板 (905P)	
Tightn. Template A.V.D						0.04
TOTAL WEIGHT 总重					6.51 kg	
CSSC-MES DIESEL CO.,LTD.						

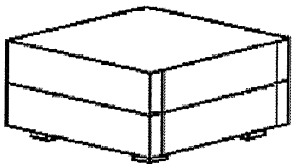
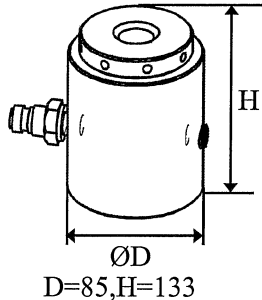
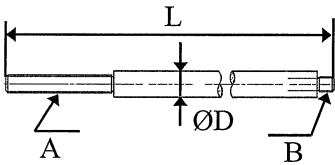
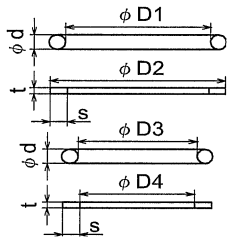
TOOLS					PAGE	05-07
MAIN DIESEL ENGINE 6G60MEC mk9.5					SHIP NO.	
CRANKSH.+THRUST BRG. TOOLS					BOX NO.	
NAME 名称	SKETCH 简图	MATERIAL 材料	SUPPLY PER SHIP 数量/船	DRAWING NO. 组立区分号	REMARKS	
					WEIGHT重量(kg)	
推力块转出工具		Steel	1	905BH	In the panel 装在工具板 (905P)	
Turning-out tool for thrust segment					7	
曲轴顶升工具	 L=940, B=160, H=505	Steel	1	905BL		
Lifting tool for crankshaft					118.7	
推力轴顶升工具	 B=125, L=1500, H=397	Steel	1	905BM		
Lifting tool for thrust shaft					51.6	
取出工具	 L=466, D=42	Steel	1	905BE		
Extractor					0.8	
TOTAL WEIGHT 总重					178.10 kg	
	CSSC-MES DIESEL CO.,LTD.					

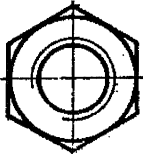
TOOLS					PAGE	05-08
MAIN DIESEL ENGINE 6G60MEC mk9.5					SHIP NO.	
CRANKSH.+THRUST BRG. TOOLS					BOX NO.	
NAME 名称	SKETCH 简图	MATERIAL 材料	SUPPLY PER SHIP 数量/船	DRAWING NO. 组立区分号	REMARKS	
		Components	1	905K	WEIGHT重量(kg)	
工具箱						
Tools box					11.58	
适用于盘车机	 M30×3.5 D=100,H=75	Components	2	905KB	In the box 装工具箱 (905K)	
液压拉伸器						
Hydraulic jack					3.95 × 2	
	 Φ92 54	Steel	2	905KC	In the box 装工具箱 (905K)	
承压圈						
Support for hydraulic jack					1.19 × 2	
		Components	2	905KD	In the box 装工具箱 (905K)	
球形手柄						
Tommy bar					0.09	
	 H=103, D=55, M30×3.5	Steel	2	905KG	In the box 装工具箱 (905K)	
拧紧螺母						
Stud setter					1.13	
TOTAL WEIGHT 总重					23.08 kg	
CSSC-MES DIESEL CO.,LTD.						

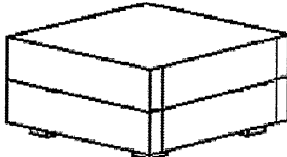
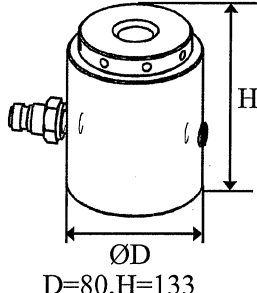
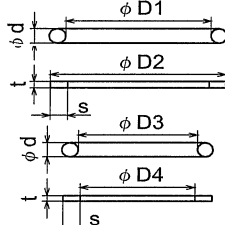
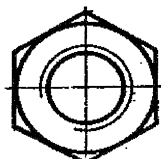
TOOLS					PAGE	05-09
MAIN DIESEL ENGINE 6G60MEC mk9.5					SHIP NO.	
CRANKSH.+THRUST BRG. TOOLS					BOX NO.	
NAME 名称	SKETCH 简图	MATERIAL 材料	SUPPLY PER SHIP 数量/船	DRAWING NO. 组立区分号	REMARKS	
					WEIGHT重量(kg)	
带挡圈的密封圈	 D1=69.2,D2=80,D3=64.2,D4=65,d=5.7,t=2,s=5	Components	each 2	905K12 905K11	In the box 装工具箱 (905K)	
Sealing ring with back-up ring					0.03 × 2	
垫圈	 D=11,d=3,height=9	Steel	2	905K21	In the box 装工具箱 (905K)	
Disk, round-plain					0.06 × 2	
放气螺钉		Steel	2	905K22	In the box 装工具箱 (905K)	
Venting screw					0.01 × 2	
内六角扳手		Steel	2	905K30	In the box 装工具箱 (905K)	
Allen wrenches GB5356-85 6mmR					0.03 × 2	
TOTAL WEIGHT 总重					0.26 kg	
	CSSC-MES DIESEL CO.,LTD.					

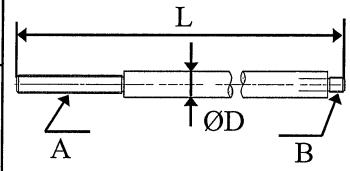
TOOLS				PAGE	05-10
MAIN DIESEL ENGINE 6G60MEC mk9.5				SHIP NO.	
CRANKSH.+THRUST BRG. TOOLS				BOX NO.	
NAME 名称	SKETCH 简图	MATERIAL 材料	SUPPLY PER SHIP 数量/船	DRAWING NO. 组立区分号	REMARKS
		Steel	1	905P	
工具板					
Panel for tools MS905					
	1350×900				42.9
TOTAL WEIGHT 总重				42.90 kg	
	CSSC-MES DIESEL CO.,LTD.				

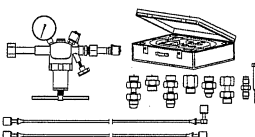
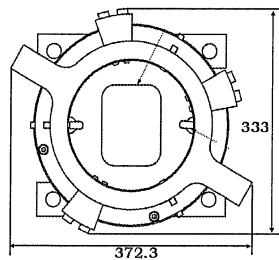
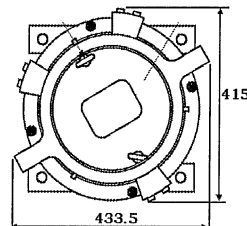
TOOLS				PAGE	06-01
MAIN DIESEL ENGINE 6G60MEC mk9.5				SHIP NO.	
CHAIN AND ALPHA LUBR. TOOLS				BOX NO.	
NAME 名称	SKETCH 简图	MATERIAL 材料	SUPPLY PER SHIP 数量/船	DRAWING NO. 组立区分号	REMARKS WEIGHT重量(kg)
链条拆卸工具	 L1=450,L2=158,L3=196, H=142,D=25	Steel	1	906BA	In the panel 装在工具板 (906P)
Chain disassembling tool					17.8
链条装配工具	 H=239, T=25 L1=175, L2=160, d=M30	Steel	1	906BB	In the panel 装在工具板 (906P)
Chain assembling tool					11.5
链条拆卸工具	 width=170	Steel	1	906BE	In the panel 装在工具板 (906P)
Chain disassembling tool					22.1
曲轴定时量规		Steel	1	906BG	In the panel 装在工具板 (906P)
Pin gauge for crankshaft					1.66
链条装配工具	 H=259, T=30 L1=195, L2=190, d=M30	Steel	1	906BL	In the panel 装在工具板 (906P)
Chain assembling tool					14.9
TOTAL WEIGHT 总重				67.96 kg	
CSSC-MES DIESEL CO.,LTD.					

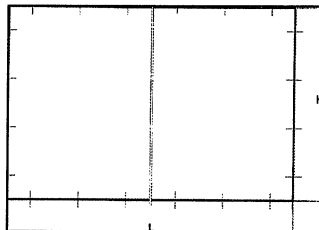
TOOLS			PAGE	06-02	
MAIN DIESEL ENGINE 6G60MEC mk9.5			SHIP NO.		
CHAIN AND ALPHA LUBR. TOOLS			BOX NO.		
NAME 名称	SKETCH 简图	MATERIAL 材料	SUPPLY PER SHIP 数量/船	DRAWING NO. 组立区分号	REMARKS
					WEIGHT重量(kg)
工具箱		Components	1	906BP	
Tools box					
					12.4
后端链条张紧器		Components	2	906BPA	In the box 装工具箱 (906BP)
液压拉伸器					
Hydraulic jack					
					4.94× 2
		Steel	2	906BP2	In the box 装工具箱 (906BP)
螺柱					
Stud, thread both ends					
					7.78 × 2
		Components	each 2	906BP7 906BP10	In the box 装工具箱 (906BP)
带挡圈的密封圈					
Sealing ring with back-up ring					
					0.01 × 2
		Steel	1	906BP8	In the box 装工具箱 (906BP)
内六角扳手					
Allen wrenches GB5356-85 6mmR					
					0.03
TOTAL WEIGHT 总重			37.89 kg		
CSSC-MES DIESEL CO.,LTD.					

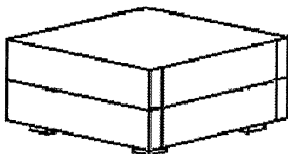
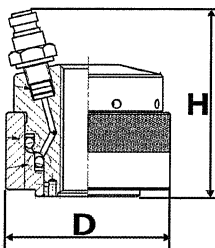
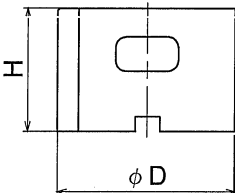
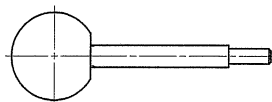
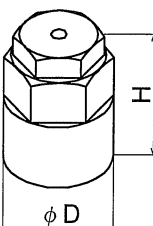
TOOLS				PAGE	06-03
MAIN DIESEL ENGINE 6G60MEC mk9.5				SHIP NO.	
CHAIN AND ALPHA LUBR. TOOLS				BOX NO.	
NAME 名称	SKETCH 简图	MATERIAL 材料	SUPPLY PER SHIP 数量/船	DRAWING NO. 组立区分号	REMARKS
		Steel	2	906BP22	WEIGHT重量(kg)
螺母					In the box 装工具箱 (906BP)
Nut					
	GB/T6170 M24				0.13 × 2
TOTAL WEIGHT 总重				0.26 kg	
	CSSC-MES DIESEL CO.,LTD.				

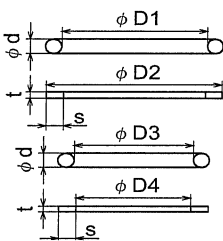
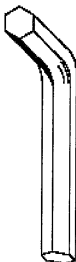
TOOLS					PAGE	06-04
MAIN DIESEL ENGINE 6G60MEC mk9.5					SHIP NO.	
CHAIN AND ALPHA LUBR. TOOLS					BOX NO.	
NAME 名称	SKETCH 简图	MATERIAL 材料	SUPPLY PER SHIP 数量/船	DRAWING NO. 组立区分号	REMARKS	
					WEIGHT重量(kg)	
工具箱		Components	1	906E		
Tools box						
					18.1	
前端链条张紧器		Components	2	906EE		
液压拉伸器						
Hydraulic jack					In the box 装工具箱 (906E)	
					4.57× 2	
带挡圈的密封圈		Components	2	906E 5 906E 6		
Sealing ring with back-up ring					In the box 装工具箱 (906E)	
					D1=32,D2=37,D3=33.6, D4=34,d=3.53,t=2,s=2.5	0.02 × 2
内六角扳手		Steel	1	906E 8		
Allen wrenches GB5356-85 6mmR					In the box 装工具箱 (906E)	
					0.03	
螺母		Steel	2	906E 9		
Nut					In the box 装工具箱 (906BP)	
					GB/T6170 M16	0.038 × 2
TOTAL WEIGHT 总重					27.39 kg	
CSSC-MES DIESEL CO.,LTD.						

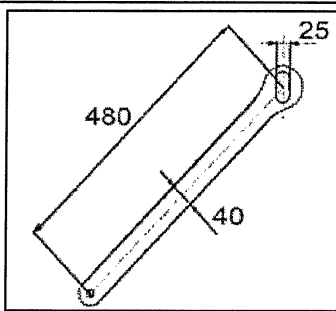
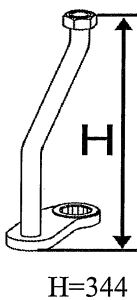
TOOLS			PAGE	06-05	
MAIN DIESEL ENGINE 6G60MEC mk9.5			SHIP NO.		
CHAIN AND ALPHA LUBR. TOOLS			BOX NO.		
NAME 名称	SKETCH 简图	MATERIAL 材料	SUPPLY PER SHIP 数量/船	DRAWING NO. 组立区分号	REMARKS
					WEIGHT重量(kg)
螺柱	 L=1335,D=25, A=M16,B=M20	Steel	2	906E 20	In the box 装工具箱 (906BP)
Stud, thread both ends					4.39 × 2
TOTAL WEIGHT 总重			8.78 kg		
CSSC-MES DIESEL CO.,LTD.					

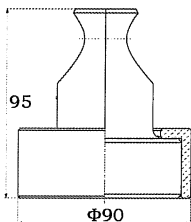
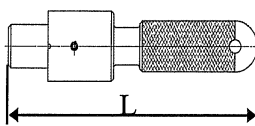
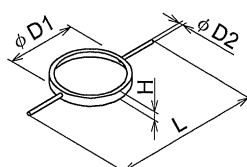
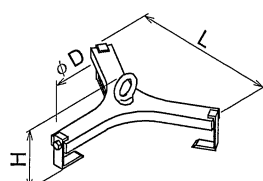
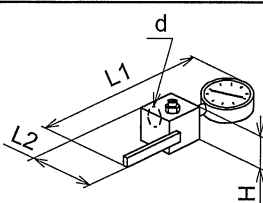
TOOLS				PAGE	06-06
MAIN DIESEL ENGINE 6G60MEC mk9.5				SHIP NO.	
CHAIN AND ALPHA LUBR. TOOLS				BOX NO.	
NAME 名称	SKETCH 简图	MATERIAL 材料	SUPPLY PER SHIP 数量/船	DRAWING NO. 组立区分号	REMARKS WEIGHT重量(kg)
注油器工具	 310×280×100 Tool box(工具箱): 1pc/reducing valve(减压阀): 1pc/adapter(接头)7pcs/screw-special(螺栓)1pc/quick coupling,minimess(挠性管组)2pcs,quick coupling(快速接头)2pcs	Components	1	906D	
Test equipment for accumulators. Alpha lubracator					3.3
支架	 height=310	Steel	1	906IB	
Pin wrench-special					40.5
扳手	 height=402.3	Steel	1	906IC	
Hook wrench					79.8
TOTAL WEIGHT 总重				123.60 kg	
	CSSC-MES DIESEL CO.,LTD.				

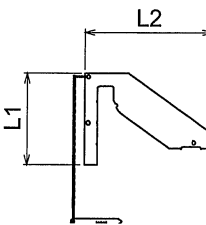
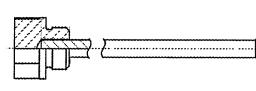
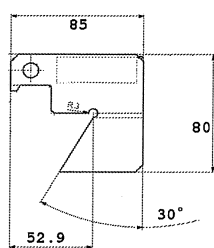
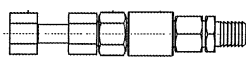
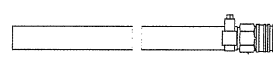
TOOLS				PAGE	06-07
MAIN DIESEL ENGINE 6G60MEC mk9.5				SHIP NO.	
CHAIN AND ALPHA LUBR. TOOLS				BOX NO.	
NAME 名称	SKETCH 简图	MATERIAL 材料	SUPPLY PER SHIP 数量/船	DRAWING NO. 组立区分号	REMARKS
		Steel	1	906P	WEIGHT重量(kg)
工具板					
Panel for tools MS906					28.2
TOTAL WEIGHT 总重				28.20 kg	
	CSSC-MES DIESEL CO.,LTD.				

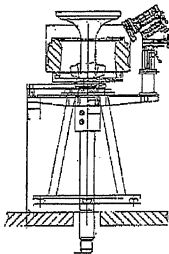
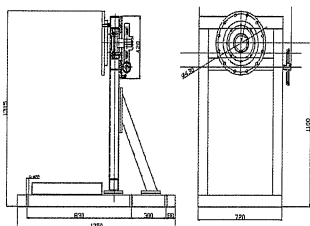
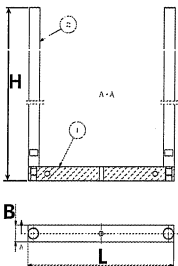
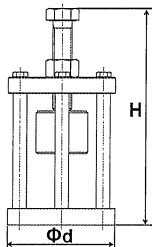
TOOLS					PAGE	06-08
MAIN DIESEL ENGINE 6G60MEC mk9.5					SHIP NO.	
CHAIN AND ALPHA LUBR. TOOLS					BOX NO.	
NAME 名称	SKETCH 简图	MATERIAL 材料	SUPPLY PER SHIP 数量/船	DRAWING NO. 组立区分号	REMARKS	
					WEIGHT重量(kg)	
工具箱		Components	1	906C		
Tools box						
排气阀驱动螺柱	 H=108.8,D=Φ88,M30×2	Components	2	906CB	In the box 装工具箱 (906C)	
液压拉伸器						
Hydraulic jack						
					5	
承压圈	 D=75,H=54	Steel	2	906CC	In the box 装工具箱 (906C)	
Support for hydraulic jack						
					2.78 × 2	
球形手柄		Components	1	906CD	In the box 装工具箱 (906C)	
Tommy bar						
					0.1	
	 H=95, D=55, M30×2	Steel	1	906CE	In the box 装工具箱 (906C)	
拧紧螺母						
Stud setter						
					1.13	
TOTAL WEIGHT 总重					13.00 kg	
CSSC-MES DIESEL CO.,LTD.						

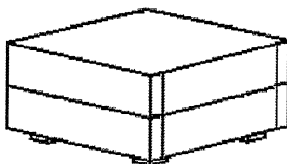
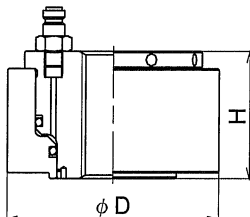
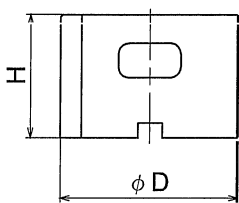
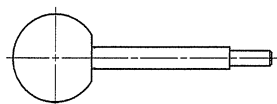
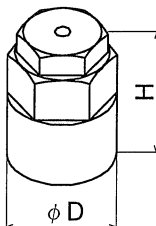
TOOLS					PAGE	06-09
MAIN DIESEL ENGINE 6G60MEC mk9.5					SHIP NO.	
CHAIN AND ALPHA LUBR. TOOLS					BOX NO.	
NAME 名称	SKETCH 简图	MATERIAL 材料	SUPPLY PER SHIP 数量/船	DRAWING NO. 组立区分号	REMARKS	
					WEIGHT重量(kg)	
带挡圈的密封圈		Components	each 2	906C5 906C6	In the box 装工具箱 (905C)	
Sealing ring with back-up ring					0.03 × 2	
内六角扳手		Steel	1	906C9	In the box 装工具箱 (906C)	
Allen wrenches GB5356-85 6mmR					0.03 × 1	
TOTAL WEIGHT 总重					0.09 kg	
	CSSC-MES DIESEL CO.,LTD.					

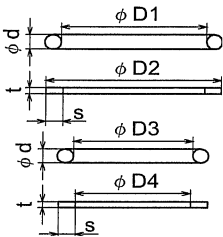
TOOLS					PAGE	07-01
MAIN DIESEL ENGINE 6G60MEC mk9					SHIP NO.	
CHAIN AND ALPHA LUBR. TOOLS					BOX NO.	
NAME 名称	SKETCH 简图	MATERIAL 材料	SUPPLY PER SHIP 数量/船	DRAWING NO. 组立区分号	REMARKS	
		Steel	1	907B51	WEIGHT重量(kg)	
扳手					此件不装箱， 随主机交货。	
Lever for main starting valve						2.49
		Steel	1	907A85		
扳手						
Lever for main starting valve					2.24	
TOTAL WEIGHT 总重					4.73 kg	
	CSSC-MES DIESEL CO.,LTD.					

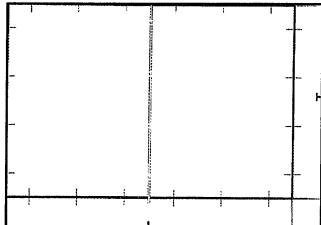
TOOLS					PAGE	08-01
MAIN DIESEL ENGINE 6G60MEC mk9.5					SHIP NO.	
EXHAUST VALVE, TOOLS					BOX NO.	
NAME 名称	SKETCH 简图	MATERIAL 材料	SUPPLY PER SHIP 数量/船	DRAWING NO. 组立区分号	REMARKS	
					WEIGHT重量(kg)	
提升工具		Steel	1	908AF	In the panel 装在工具板 (908P)	
Lift tool for exhaust valve					1.88	
高压管研磨工具	 L=190	Components	1	908AG	In the panel 装在工具板 (908P)	
Grinding tool for high pressure pipe					1.93	
研磨环	 D1=410,D2=20,H=30, L=808	Cast iron	1	908AH	In the panel 装在工具板 (908P)	
grinding tool for exhaust valve bottom					8.085	
排气阀提升工具	 L=347,D=380,H=157	Steel	1	908AJ	In the panel 装在工具板 (908P)	
Lifting tool for exhaust valve					3.88	
压力表	 L1=242,L2=90,H=75, d=M30×1.5	Components	1	908AN	In the panel 装在工具板 (908P)	
Test equipment for exhaust valve					4.93	
TOTAL WEIGHT 总重					20.71 kg	
CSSC-MES DIESEL CO.,LTD.						

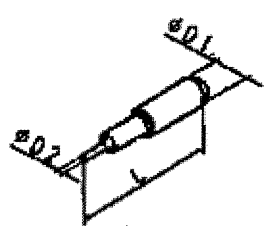
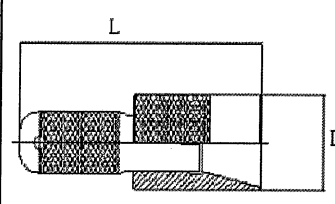
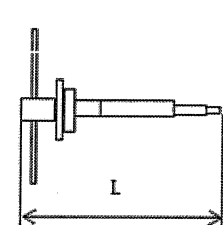
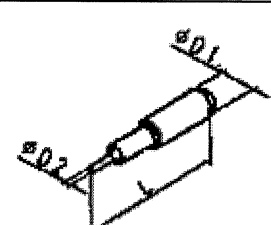
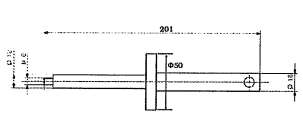
TOOLS					PAGE	08-02
MAIN DIESEL ENGINE 6G60MEC mk9.5					SHIP NO.	
EXHAUST VALVE, TOOLS					BOX NO.	
NAME 名称	SKETCH 简图	MATERIAL 材料	SUPPLY PER SHIP 数量/船	DRAWING NO. 组立区分号	REMARKS	
					WEIGHT重量(kg)	
排气阀测量样板	 L1=200.5,L2=290	Steel	1	908AE	In the panel 装在工具板 (908P)	
Gauge for exhaust valve spindle					1.04	
开启工具	 L=301	Steel	1	908AM	In the panel 装在工具板 (908P)	
Tool for emergency open. exhaust valve					0.39	
阀座测量样板	 85 80 52.9 30°	Steel	1	908A76	In the panel 装在工具板 (908P)	
Gauge for exhaust valve seat					0.11	
连接螺栓	 L=130.2	Steel	1	908AT	In the panel 装在工具板 (908P)	
Coupling					0.25	
软管	 L=500.3	Steel	1	908AU	In the panel 装在工具板 (908P)	
Hose with 1 coupling					0.2	
TOTAL WEIGHT 总重					1.99 kg	
CSSC-MES DIESEL CO.,LTD.						

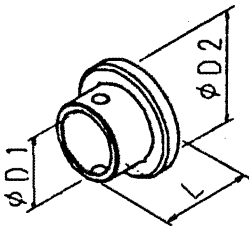
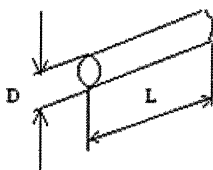
TOOLS				PAGE	08-03
MAIN DIESEL ENGINE 6G60MEC mk9.5				SHIP NO.	
EXHAUST VALVE, TOOLS				BOX NO.	
NAME 名称	SKETCH 简图	MATERIAL 材料	SUPPLY PER SHIP 数量/船	DRAWING NO. 组立区分号	REMARKS WEIGHT重量(kg)
排气阀研磨机		Components	1	908AZ_2	
Exhaust valve grinding machine					290
排气阀回转台		Components	1	908AZ_5	
work table-exhaust valve					183
桥规		Components	1	908AR	
bridge gauge, exhaust valve					3.63
缓冲活塞取出工具		Components	1	908AL	
tool for hydraulic piston					7.25
TOTAL WEIGHT 总重				483.88 kg	
	CSSC-MES DIESEL CO.,LTD.				

TOOLS				PAGE	08-04
MAIN DIESEL ENGINE 6G60MEC mk9.5				SHIP NO.	
EXHAUST VALVE, TOOLS				BOX NO.	
NAME 名称	SKETCH 简图	MATERIAL 材料	SUPPLY PER SHIP 数量/船	DRAWING NO. 组立区分号	REMARKS
					WEIGHT重量(kg)
工具箱		Components	1	908D	
Tools box					5.8
适用于排气阀		Components	2	908DB	
液压拉伸器					In the box 装工具箱 (908D)
Hydraulic jack					25.9 × 2
		Steel	2	908DC	
承压圈					In the box 装工具箱 (908D)
Support for hydraulic jack					10.1 × 2
		Components	1	908DD	
球形手柄					In the box 装工具箱 (908D)
Tommy bar					0.01
		Steel	1	908DG	
拧紧螺母					In the box 装工具箱 (908D)
Stud setter					15.79
TOTAL WEIGHT 总重				93.60 kg	
CSSC-MES DIESEL CO.,LTD.					

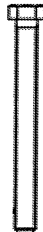
TOOLS					PAGE	08-05
MAIN DIESEL ENGINE 6G60MEC mk9.5					SHIP NO.	
EXHAUST VALVE, TOOLS					BOX NO.	
NAME 名称	SKETCH 简图	MATERIAL 材料	SUPPLY PER SHIP 数量/船	DRAWING NO. 组立区分号	REMARKS	WEIGHT重量(kg)
带挡圈的密封圈	 D1=159.3,D2=173,D3=109.1 , D4=112,d=5.7,t=2,s=5	Components	each 2	908D5 908D6	In the box 装工具箱 (908D)	
Sealing ring with back-up ring						0.05 × 2
内六角扳手		Steel	1	908D9	In the box 装工具箱 (908D)	
Allen wrenches GB5356-85 4MMR						0.03
TOTAL WEIGHT 总重					0.13 kg	
	CSSC-MES DIESEL CO.,LTD.					

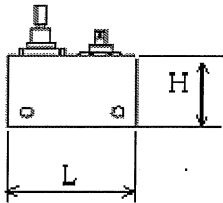
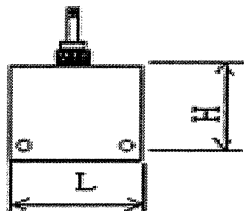
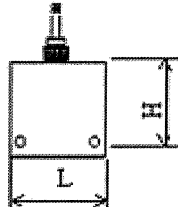
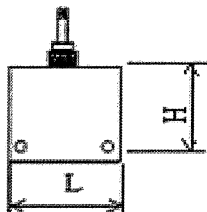
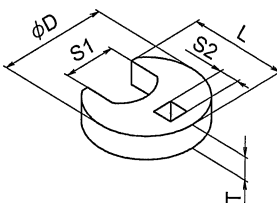
TOOLS				PAGE	08-06
MAIN DIESEL ENGINE 6G60MEC mk9.5				SHIP NO.	
EXHAUST VALVE, TOOLS				BOX NO.	
NAME 名称	SKETCH 简图	MATERIAL 材料	SUPPLY PER SHIP 数量/船	DRAWING NO. 组立区分号	REMARKS
	 1350×900	Steel	1	908P	WEIGHT重量(kg)
工具板					
Panel for tools MS908					42.3
TOTAL WEIGHT 总重				42.30 kg	
	CSSC-MES DIESEL CO.,LTD.				

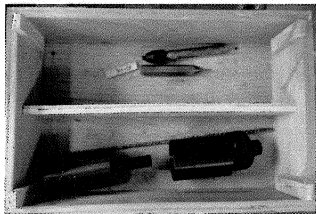
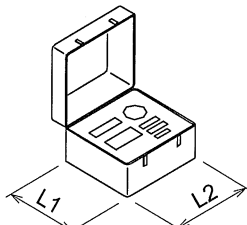
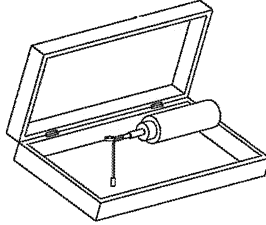
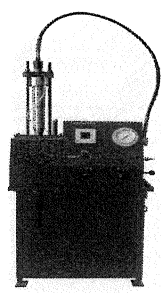
TOOLS				PAGE	09-01
MAIN DIESEL ENGINE 6G60MEC mk9.5				SHIP NO.	
FUEL OIL SYSTEM,TOOLS				BOX NO.	
NAME 名称	SKETCH 简图	MATERIAL 材料	SUPPLY PER SHIP 数量/船	DRAWING NO. 组立区分号	REMARKS
					WEIGHT重量(kg)
喷油器研磨芯	 L=166,D1=40,D2=7.5	Special steel	1	909AB	In the panel 装在工具板 (909P)
Grinding mandrel- valve head					1.22
喷油器体研磨工具	 L=193,D=68	Steel	1	909AC	In the panel 装在工具板 (909P)
Grinding mandrel- holder-outs					2.66
喷油器体研磨工具	 L=460	Components	1	909AD	In the panel 装在工具板 (909P)
Grinding mandrel- holder-insi					1.95
推力轴研磨芯	 L=136,D1=37,D2=11	Steel	1	909AE	In the panel 装在工具板 (909P)
Grinding mandrel for thrust spindle					0.95
锁紧轴	 L=201	Steel	1	909A32	In the panel 装在工具板 (909P)
Locking device					0.38
TOTAL WEIGHT 总重				7.16 kg	
CSSC-MES DIESEL CO.,LTD.					

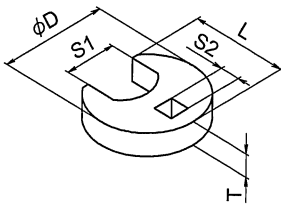
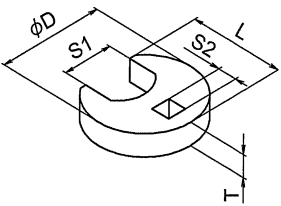
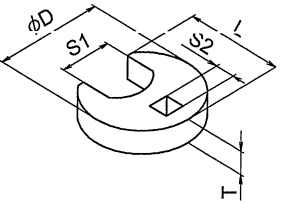
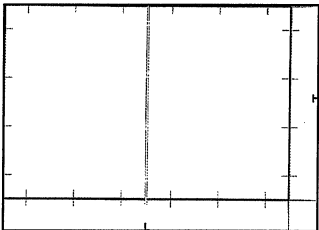
TOOLS					PAGE	09-02
MAIN DIESEL ENGINE 6G60MEC mk9.5					SHIP NO.	
FUEL OIL SYSTEM,TOOLS					BOX NO.	
NAME 名称	SKETCH 简图	MATERIAL 材料	SUPPLY PER SHIP 数量/船	DRAWING NO. 组立区分号	REMARKS	WEIGHT重量(kg)
	 L=47,D1=60,D2=80	Steel	1	909A56	In the panel 装在工具板 (909P)	
法兰						
Flange-dism. non- return valve						
						0.29
	 L=220,D=Ø24	Steel	1	909B25	In the panel 装在工具板 (909P)	
导向轴芯						
Draft-spindle guide						
						0.838
TOTAL WEIGHT 总重					1.13 kg	
	CSSC-MES DIESEL CO.,LTD.					

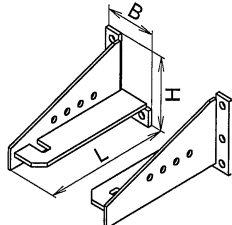
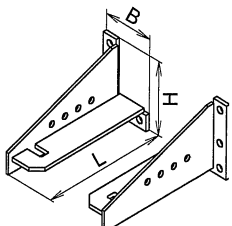
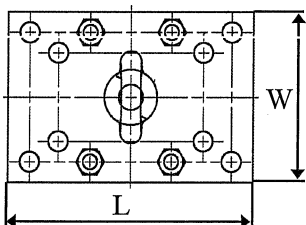
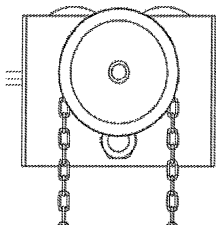
TOOLS					PAGE	09-03
MAIN DIESEL ENGINE 6G60MEC mk9.5					SHIP NO.	
FUEL OIL SYSTEM,TOOLS					BOX NO.	
NAME 名称	SKETCH 简图	MATERIAL 材料	SUPPLY PER SHIP 数量/船	DRAWING NO. 组立区分号	REMARKS	
					WEIGHT重量(kg)	
燃油泵起吊工具	 L=270,B=50,H1=116,H2=25	Steel	1	909BA	In the panel 装在工具板 (909P)	
Lifting tool for fuel pump house					3.12	
安装工具	 L=135,H=110	Steel	1	909BF	In the panel 装在工具板 (909P)	
Assembly tool					0.96	
清洁阀	 160×144×60	Steel	1	909BH	In the panel 装在工具板 (909P)	
Flushing valve					2.15	
燃油泵提升工具	 L=100,H=110,B=20	Steel	1	909BM	In the panel 装在工具板 (909P)	
Lifting tool for hydraulic plunger					0.52	
吸油阀取出工具	 L=175, D=40	Steel	1	909BJ	In the panel 装在工具板 (909P)	
Extract. Tool-suct. Valve					0.76	
TOTAL WEIGHT 总重					7.52 kg	
CSSC-MES DIESEL CO.,LTD.						

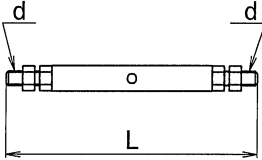
TOOLS					PAGE	09-04
MAIN DIESEL ENGINE 6G60MEC mk9.5					SHIP NO.	
FUEL OIL SYSTEM,TOOLS					BOX NO.	
NAME 名称	SKETCH 简图	MATERIAL 材料	SUPPLY PER SHIP 数量/船	DRAWING NO. 组立区分号	REMARKS	
					WEIGHT重量(kg)	
	 M16×200	Steel	2	909B20	In the panel 装在工具板 (909P)	
螺栓						
Screw EN61V16200						
					0.35 × 2	
TOTAL WEIGHT 总重					0.70 kg	
	CSSC-MES DIESEL CO.,LTD.					

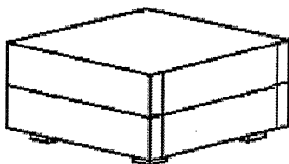
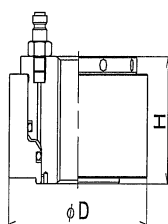
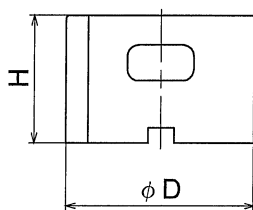
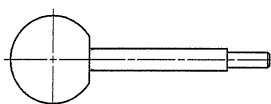
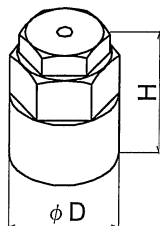
TOOLS					PAGE	09-05
MAIN DIESEL ENGINE 6G60MEC mk9.5					SHIP NO.	
FUEL OIL SYSTEM,TOOLS					BOX NO.	
NAME 名称	SKETCH 简图	MATERIAL 材料	SUPPLY PER SHIP 数量/船	DRAWING NO. 组立区分号	REMARKS	
					WEIGHT重量(kg)	
铣削工具	 L=180,H=110,Width=100	Components	1	909DB	In the panel 装在工具板 (909P)	
Mill tool for seat of fuel oil pipe					3.41	
燃油管铣削工具	 H=110,L=185,Width=80	Components	1	909DE	In the panel 装在工具板 (909P)	
Mill tool for fuel oil pipe					3.14	
铣削工具	 H=110,L=120,Width=100	Components	1	909DF	In the panel 装在工具板 (909P)	
Cut. Tool-seat- distr. Piece					2.53	
燃油管铣削工具	 H=125,L=165,Width=90	Components	1	909DG	In the panel 装在工具板 (909P)	
Mill tool for fuel oil pipe					3.92	
扳手	 D=130, L=118, T=22 S1=65, S2=19	Steel	1	909D81	In the panel 装在工具板 (909P)	
Crowfoot wrench head					1.52	
TOTAL WEIGHT 总重					14.52 kg	
CSSC-MES DIESEL CO.,LTD.						

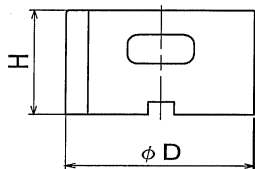
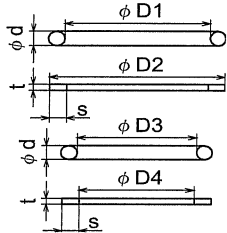
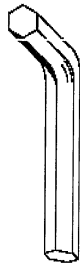
TOOLS				PAGE	09-06
MAIN DIESEL ENGINE 6G60MEC mk9.5				SHIP NO.	
FUEL OIL SYSTEM,TOOLS				BOX NO.	
NAME 名称	SKETCH 简图	MATERIAL 材料	SUPPLY PER SHIP 数量/船	DRAWING NO. 组立区分号	REMARKS WEIGHT重量(kg)
喷油器清洁工具		Components	1	909EA 909EC	
Cleaning tool for fuel valve nozzle					drill for atomizer(钻头):1pc/ pin vice(钻头夹):1pc/ extractor for atomizer(喷油器拆卸工 具):1pc/ drift for atomizer(喷油器冲头):1pc/ test pin(通针):1pc/ cleaming rush(清洗刷子):1pcs LxHxW=280x185x110
密封圈安装工具	 L1=350,L2=550,height=220	Components	1	909EG	
Mounting tool for sealing rings					7.8
探测光源		Components	1	909E4	
Probe light					1.1
压力试验工具		Components	1	909E72	
Pressure test device. fuel valve					125
TOTAL WEIGHT 总重				137.13 kg	
CSSC-MES DIESEL CO.,LTD.					

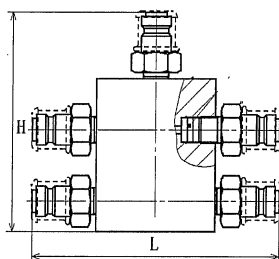
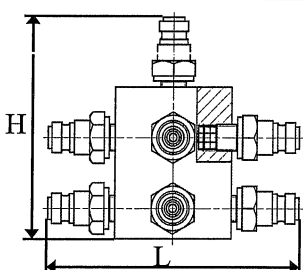
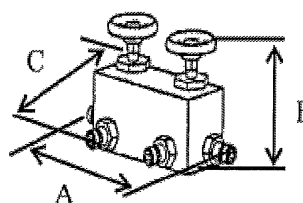
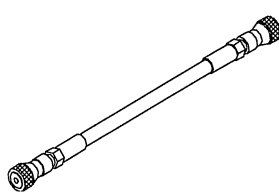
TOOLS					PAGE	09-07
MAIN DIESEL ENGINE 6G60MEC mk9.5					SHIP NO.	
FUEL OIL SYSTEM,TOOLS					BOX NO.	
NAME 名称	SKETCH 简图	MATERIAL 材料	SUPPLY PER SHIP 数量/船	DRAWING NO. 组立区分号	REMARKS	
					WEIGHT重量(kg)	
扳手	 D=105, L=98, T=22 S1=50, S2=19	Steel	1	909D82	In the panel 装在工具板 (909P)	
Crowfoot wrench head					1.03	
扳手	 D=140, L=128, T=22 S1=70, S2=20	Steel	1	909D83	In the panel 装在工具板 (909P)	
Crowfoot wrench head					1.79	
扳手	 D=110, L=100, T=22 S1=55, S2=19	Steel	1	909D84	In the panel 装在工具板 (909P)	
Crowfoot wrench head					1.07	
工具板	 1350×900	Steel	1	909P		
Panel for tools MS909					43.7	
TOTAL WEIGHT 总重					47.59 kg	
	CSSC-MES DIESEL CO.,LTD.					

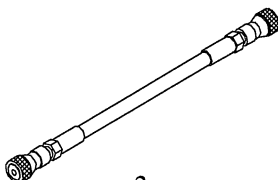
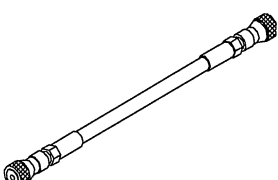
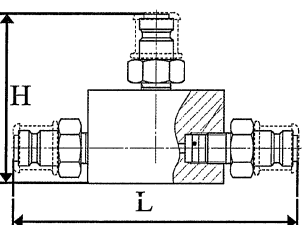
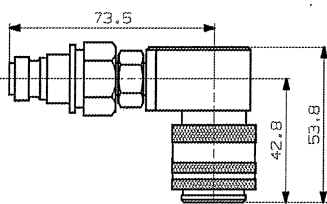
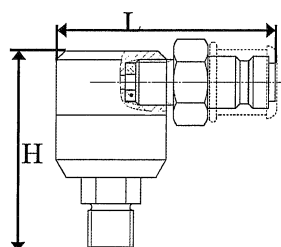
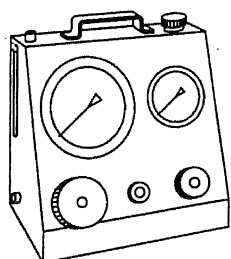
TOOLS				PAGE	10-01
MAIN DIESEL ENGINE 6G60MEC mk9.5				SHIP NO.	
T.C. AIR CHARGE SYSTEM TOOLS				BOX NO.	
NAME 名称	SKETCH 简图	MATERIAL 材料	SUPPLY PER SHIP 数量/船	DRAWING NO. 组立区分号	REMARKS WEIGHT重量(kg)
空冷器前端导轨	 L=313,H=235,B=200	Steel	1 set	910AE	
Guide rail for A.C fore end					14
空冷器后端导轨	 L=233,H=235,B=200	Steel	1 set	910AF	
Guide rail for A.C rear end					11.73
空冷器起吊工具	 L=300,W=200,HIGHT=139	Steel	1	910AG	
Lifting attachment for A.C fore end					15.33
起吊车	 2000Kg	Components	2	910A11	
Travelling trolley					14 × 2
TOTAL WEIGHT 总重				69.06 kg	
	CSSC-MES DIESEL CO.,LTD.				

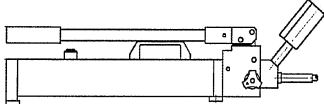
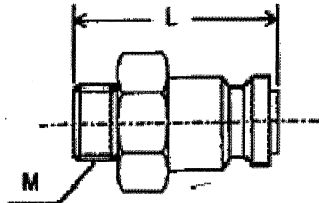
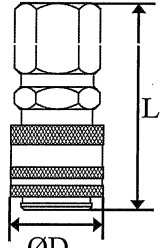
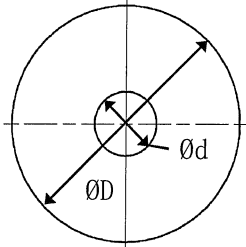
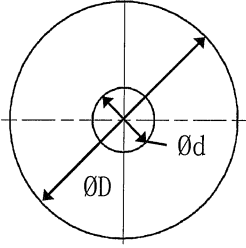
TOOLS				PAGE	10-02
MAIN DIESEL ENGINE 6G60MEC mk9.5				SHIP NO.	
T.C. AIR CHARGE SYSTEM TOOLS				BOX NO.	
NAME 名称	SKETCH 简图	MATERIAL 材料	SUPPLY PER SHIP 数量/船	DRAWING NO. 组立区分号	REMARKS WEIGHT重量(kg)
拉伸工具	 L=350-610,d=M12	Steel	3	910BA	0.407 × 3
Pulling tool					
吊环螺钉	 EN69R12	Steel	2	910B2	0.2 × 2
Eye bolt					
TOTAL WEIGHT 总重				1.62 kg	
	CSSC-MES DIESEL CO.,LTD.				

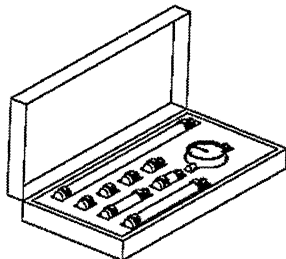
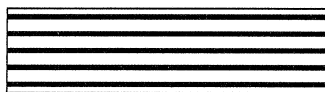
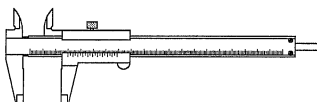
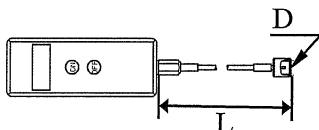
TOOLS					PAGE	12-01
MAIN DIESEL ENGINE 6G60MEC mk9.5					SHIP NO.	
STAY BOLTS TOOLS					BOX NO.	
NAME 名称	SKETCH 简图	MATERIAL 材料	SUPPLY PER SHIP 数量/船	DRAWING NO. 组立区分号	REMARKS	
					WEIGHT重量(kg)	
工具箱		Components	1	912A		
Tools box						
					2.6	
贯穿螺栓、端部螺栓、TVD	 M64×6 D=180,H=188	Components	2	912AA	In the box 装工具箱 (912A)	
液压拉伸器						
Hydraulic jack					25.22 × 2	
承压圈	 D=170,H=102	Steel	2	912AF	In the box 装工具箱 (912A)	
Support for hydraulic jack					7.29 × 2	
球形手柄		Components	1	912AG	In the box 装工具箱 (912A)	
Tommy bar					0.1	
拧紧螺母	 H=163, D=110, M64×6	Steel	1	912AH	In the box 装工具箱 (912A)	
Stud setter					7.65	
TOTAL WEIGHT 总重					75.37 kg	
CSSC-MES DIESEL CO.,LTD.						

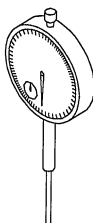
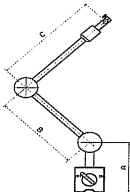
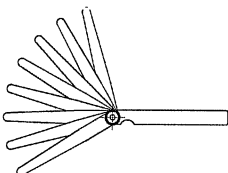
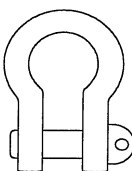
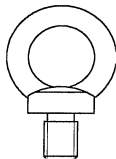
TOOLS				PAGE	12-02
MAIN DIESEL ENGINE 6G60MEC mk9.5				SHIP NO.	
STAY BOLTS TOOLS				BOX NO.	
NAME 名称	SKETCH 简图	MATERIAL 材料	SUPPLY PER SHIP 数量/船	DRAWING NO. 组立区分号	REMARKS
					WEIGHT重量(kg)
承压圈	 D=170,H=87	Steel	2	912AI	In the box 装工具箱 (912A)
Support for hydraulic jack					7.09 × 2
带挡圈的密封圈	 D1=124.3,D2=137,D3=84,D 4=85,d=5.7,t=2,s=5	Components	each 2	912A5 912A6	In the box 装工具箱 (912A)
Sealing ring with back-up ring					0.04 × 2
内六角扳手		Steel	1	912A8	In the box 装工具箱 (912A)
Allen wrenches GB5356-85 6mmR					0.03
TOTAL WEIGHT 总重				14.29 kg	
	CSSC-MES DIESEL CO.,LTD.				

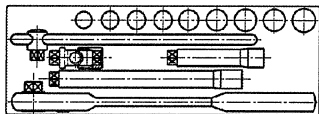
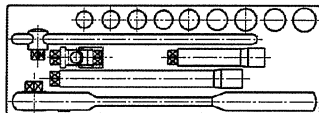
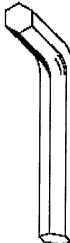
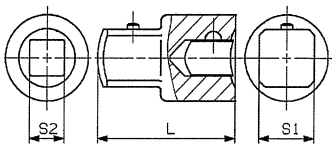
TOOLS					PAGE	13-01
MAIN DIESEL ENGINE 6G60MEC mk9.5					SHIP NO.	
HYDRAULIC PUMP AND GENERAL TOOLS					BOX NO.	
NAME 名称	SKETCH 简图	MATERIAL 材料	SUPPLY PER SHIP 数量/船	DRAWING NO. 组立区分号	REMARKS	
	 L=17,G1/4	Steel	5	913A23		
放气螺钉						
Venting screw					0.02 × 5	
	 L=125,H=108	Components	2	913AD		
分配器						
Distributor block					1.17 × 2	
	 L=106.5,H=106.5	Components	1	913AE		
分配器						
Distributor block					2.59	
	 A=195,B=88,C=115	Components	1	913AG		
带针阀的分配器						
Conical valve					3.46	
	 1.5m	Components	8	913AH		
挠性管组						
Hose with unions					1.91 × 8	
TOTAL WEIGHT 总重					23.77 kg	
CSSC-MES DIESEL CO.,LTD.						

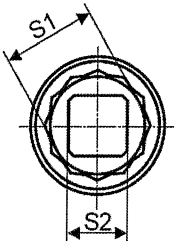
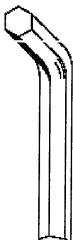
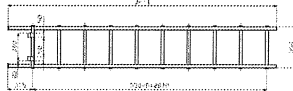
TOOLS					PAGE	13-02
MAIN DIESEL ENGINE 6G60MEC mk9.5					SHIP NO.	
HYDRAULIC PUMP AND GENERAL TOOLS					BOX NO.	
NAME 名称	SKETCH 简图	MATERIAL 材料	SUPPLY PER SHIP 数量/船	DRAWING NO. 组立区分号	REMARKS	
					WEIGHT重量(kg)	
挠性管组	 3m	Components	2	913AI		
Hose with unions					3.17 × 2	
挠性管组	 5m	Components	1	913AL		
Hose with unions					4.87	
三通接头	 L=123,H=71.5	Components	1	913AN		
Distributor block					0.657	
接头体组合件		Components	2	913AO		
Angle union					0.36 × 2	
接头体组合件	 L=65.5,H=58	Components	2	913AP		
Angle union					0.30 × 2	
高压泵		Components	1	913A1		
Pneumatic and hydraulic pump					30	
TOTAL WEIGHT 总重					43.19 kg	
CSSC-MES DIESEL CO.,LTD.						

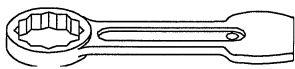
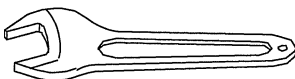
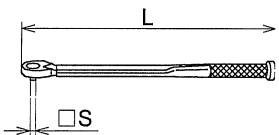
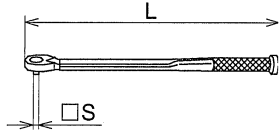
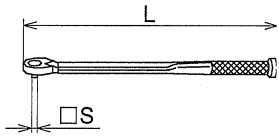
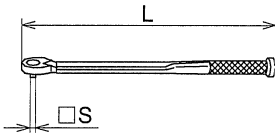
TOOLS					PAGE	13-03
MAIN DIESEL ENGINE 6G60MEC mk9.5					SHIP NO.	
HYDRAULIC PUMP AND GENERAL TOOLS					BOX NO.	
NAME 名称	SKETCH 简图	MATERIAL 材料	SUPPLY PER SHIP 数量/船	DRAWING NO. 组立区分号	REMARKS	
					WEIGHT重量(kg)	
手动高压泵		Components	1	913AA		
Hydraulic pump hand operated					13.3	
快速接头	 L=42.5,M=G1/4	Steel	3	913A20		
Quick coupling, male					0.06 × 3	
快速接头	 L=64.3,D=30	Steel	2	913A21		
Quick coupling, female					0.21 × 2	
垫圈	 D=11,d=4.5,height=3	Steel	10	913A22		
Disc, round-plain					0.003 × 10	
垫圈	 D=11,d=3,height=9	Steel	10	913A24		
Disc, round-plain					0.06 × 10	
TOTAL WEIGHT 总重					14.47 kg	
CSSC-MES DIESEL CO.,LTD.						

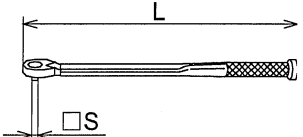
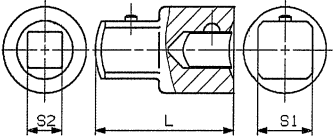
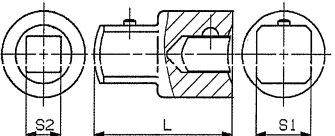
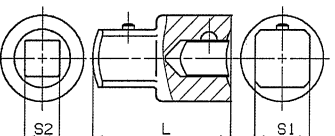
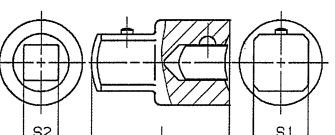
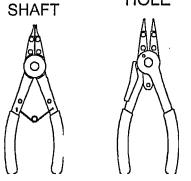
TOOLS				PAGE	13-04
MAIN DIESEL ENGINE 6G60MEC mk9.5				SHIP NO.	
HYDRAULIC PUMP AND GENERAL TOOLS				BOX NO.	
NAME 名称	SKETCH 简图	MATERIAL 材料	SUPPLY PER SHIP 数量/船	DRAWING NO. 组立区分号	REMARKS WEIGHT重量(kg)
		Components	1	913CB	
甩档表					
Crankshaft dial gauge					0.457
		Components	4	913C68	
脚踏板					
Platform board					4.35×4
		Steel	1	913C70	
游标卡尺					
Slide caliper					0.153
		Components	1	913C71	
压力表					
Pressure gauge					0.54
TOTAL WEIGHT 总重				18.55 kg	
	CSSC-MES DIESEL CO.,LTD.				

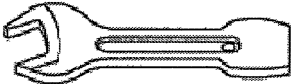
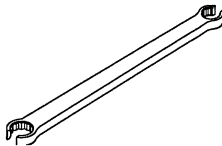
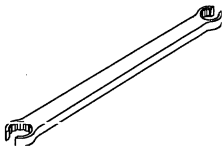
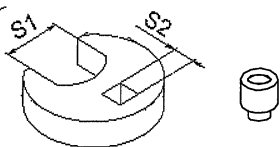
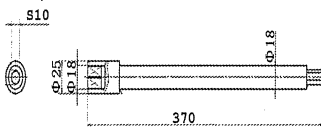
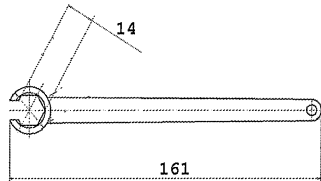
TOOLS				PAGE	13-05
MAIN DIESEL ENGINE 6G60MEC mk9.5				SHIP NO.	
HYDRAULIC PUMP AND GENERAL TOOLS				BOX NO.	
NAME 名称	SKETCH 简图	MATERIAL 材料	SUPPLY PER SHIP 数量/船	DRAWING NO. 组立区分号	REMARKS
	 measuring range:0-20mm	Components	1	913C73	WEIGHT重量(kg)
千分表					
Dial gauge					0.161
	 A:min.70mm, B:min.110mm,C:min.145mm	Components	1	913C74	
千分表支架					
Stand for dial gauge					2
	 measuring range:0.05-1mm	Steel	1	913C75	
厚薄规					
Feeler gauge set					0.09
卸扣	 EN518KA0008/09/12/15/18/ 21/24/33	Steel	each : 4	913BB1/2/3 /4/5/6/7/8	
Shackle					36.08
吊环螺钉					 EN69 R10/R12/R16/ R20/R24/R30/R8/R36
Eye bolt	14.76				
TOTAL WEIGHT 总重				53.09 kg	
CSSC-MES DIESEL CO.,LTD.					

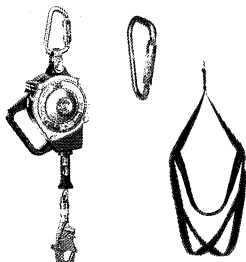
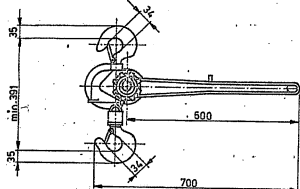
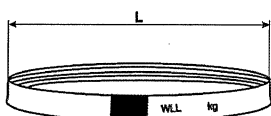
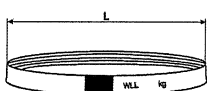
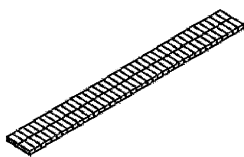
TOOLS					PAGE	13-06
MAIN DIESEL ENGINE 6G60MEC mk9.5					SHIP NO.	
HYDRAULIC PUMP AND GENERAL TOOLS					BOX NO.	
NAME 名称	SKETCH 简图	MATERIAL 材料	SUPPLY PER SHIP 数量/船	DRAWING NO. 组立区分号	REMARKS	
					WEIGHT重量(kg)	
两用扳手		Steel	each 2	913DA		
Combination spanner					45.55 × 2	
套筒扳手		Components	1 set	913DB1		
Tool sets complete EN563H1					5.7	
套筒扳手		Components	1 set	913DB2		
Tool sets complete EN563H2					14.3	
内六角扳手		Steel	1 set	913DB3		
Allen wrenches EN549G1					0.4	
方孔接头		Steel	1	913DB4		
Adapter for socket wrench					0.2	
TOTAL WEIGHT 总重					111.70 kg	
CSSC-MES DIESEL CO.,LTD.						

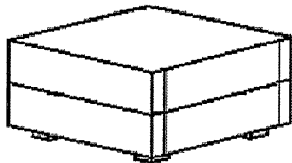
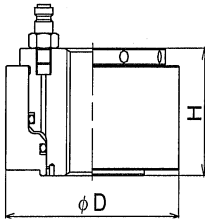
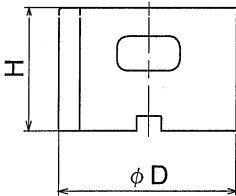
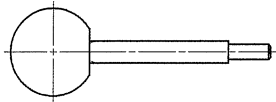
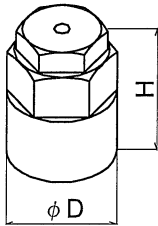
TOOLS				PAGE	13-07
MAIN DIESEL ENGINE 6G60MEC mk9.5				SHIP NO.	
HYDRAULIC PUMP AND GENERAL TOOLS				BOX NO.	
NAME 名称	SKETCH 简图	MATERIAL 材料	SUPPLY PER SHIP 数量/船	DRAWING NO. 组立区分号	REMARKS
	 S1=46, S2=20	Steel	1	913DB5	
套筒					
Socket EN506L46					WEIGHT重量(kg) 0.2
		Steel	1 set	913DB6	
内六角扳手					
Allen wrenches GB5356-85 22MMR					0.4
		Steel	1 set	913DB7	
内六角扳手					
Allen wrenches GB5356-85 24MMR					0.4
	 L*W=3411*504	Components	1 set	913B54	
梯子					
Ladder					5
TOTAL WEIGHT 总重				6.00 kg	
	CSSC-MES DIESEL CO.,LTD.				

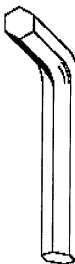
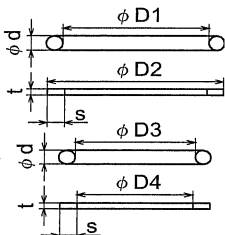
TOOLS				PAGE	13-08
MAIN DIESEL ENGINE 6G60MEC mk9.5				SHIP NO.	
HYDRAULIC PUMP AND GENERAL TOOLS				BOX NO.	
NAME 名称	SKETCH 简图	MATERIAL 材料	SUPPLY PER SHIP 数量/船	DRAWING NO. 组立区分号	REMARKS WEIGHT重量(kg)
	 EN554L30,32,34,36,41,46 GB4392-84 MA 50,55,60, 65,70,75,80,85,90,95	Steel	each 1	913DD	
敲击梅花扳					
Ring impact spanner					37.95
	 GB4388-84 MD 65,75,80 EN551F85,90	Steel	each 1	913DH	
单头扳手					
Single-ended spanner					16.1
	 L=305, S=10 4~20 Nm	Steel	1	913DJ1	
扭力扳手					
Torque spanner					0.8
	 L450, S=12.5 20~100 Nm	Steel	1	913DJ1	
扭力扳手					
Torque spanner					1.5
	 L=614, S=12.5, torque 80~300 Nm	Steel	1	913DJ3	
扭力扳手					
Torque spanner					2.2
	 L=814, S=20, torque 280~760 Nm	Steel	1	913DJ4	
扭力扳手					
Torque spanner					3.7
TOTAL WEIGHT 总重				62.25 kg	
	CSSC-MES DIESEL CO.,LTD.				

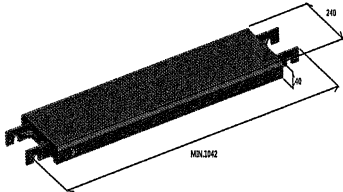
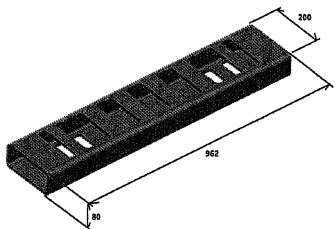
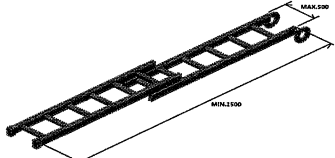
TOOLS					PAGE	13-09
MAIN DIESEL ENGINE 6G60MEC mk9.5					SHIP NO.	
HYDRAULIC PUMP AND GENERAL TOOLS					BOX NO.	
NAME 名称	SKETCH 简图	MATERIAL 材料	SUPPLY PER SHIP 数量/船	DRAWING NO. 组立区分号	REMARKS	
					WEIGHT重量(kg)	
扭力扳手	 L=1998, S=25, 750~2000 Nm	Steel	1	913DJ5		
Torque spanner					6	
方孔接头	 L=38,S1=12.5,S2=10	Steel	1	913DJ7		
Adapter for socket wrench					0.1	
方孔接头	 L=58,S1=12.5,S2=20	Steel	1	913DJ8		
Adapter for socket wrench					0.1	
方孔接头	 L=85,S1=20,S2=25	Steel	1	913DJ9		
Adapter for socket wrench					0.3	
方孔接头	 L=68,S1=25,S2=20	Steel	1	913DJ10		
Adapter for socket wrench					0.5	
尖嘴钳	 EN515D3/40/85,HD430702 5/7, HD430701 5/7/9, EN515H85	Steel	each 1	913DK		
Piere for circlip					1.845	
TOTAL WEIGHT 总重					8.85 kg	
CSSC-MES DIESEL CO.,LTD.						

TOOLS				PAGE	13-10
MAIN DIESEL ENGINE 6G60MEC mk9.5				SHIP NO.	
HYDRAULIC PUMP AND GENERAL TOOLS				BOX NO.	
NAME 名称	SKETCH 简图	MATERIAL 材料	SUPPLY PER SHIP 数量/船	DRAWING NO. 组立区分号	REMARKS WEIGHT重量(kg)
	 GB4392-84 MC 85	Steel	1	913DN	
敲击扳手					
Impact spanner					6.8
	 S14×S17	Steel	1	913DO1	
双头扳手					
Open ring wrench					0.13
	 S19×S22	Steel	1	913DO2	
双头扳手					
Open ring wrench					0.25
	 Spanner扳手 S1×S2: 120×25, 95×20, 85×20, 115×20, 100×25, 46×19, 41×19. Socket套筒 GB3390. 1 75×25, 65×25, 55×25, 50×25, 60×25, 70×25, 80×25	Steel	each 1	913DP	
扳手套筒					
Socket&Crowfoot spanner					11.86
	 S10 Φ25 Φ18 370 Φ18	Steel	each 1	913D89	
扳手					
Spanner for FIVA					0.11
	 14 161 L=161, S14	Steel	each 1	913D90	
扳手					
Spanner					0.11
TOTAL WEIGHT 总重				19.26 kg	
CSSC-MES DIESEL CO.,LTD.					

TOOLS				PAGE	13-11
MAIN DIESEL ENGINE 6G60MEC mk9.5				SHIP NO.	
HYDRAULIC PUMP AND GENERAL TOOLS				BOX NO.	
NAME 名称	SKETCH 简图	MATERIAL 材料	SUPPLY PER SHIP 数量/船	DRAWING NO. 组立区分号	REMARKS WEIGHT重量(kg)
防坠落设备		Components	1	913F	
Fall arrest equipment					10.6
葫芦	 500Kg*1, 1000kg*2, 2000kg*2, 5000kg*1	Components	500Kg:1pc, 1000kg:2pcs, 2000kg:2pcs, 5000kg:1pcs	913BI1/2/3/ 5	
Chain tackle					98.9
拉紧葫芦		Components	2	913BI4	
Pull lift					26
环形吊带	 WLL=4T,L=5000	Polyamid	1	913BJ1	
Roundsling					2.25
环形吊带	 WLL=4T,L=1500	Polyamid	1	913BJ2	
Roundsling					0.68
防擦装置	 L=1000	Polyurethane	1	913BJ3	
Chafing device for roundslings					1.98
TOTAL WEIGHT 总重				140.41 kg	
CSSC-MES DIESEL CO.,LTD.					

TOOLS				PAGE	24-01
MAIN DIESEL ENGINE 6G60MEC mk9.5				SHIP NO.	
END CHOCK BOLT TOOLS				BOX NO.	
NAME 名称	SKETCH 简图	MATERIAL 材料	SUPPLY PER SHIP 数量/船	DRAWING NO. 组立区分号	REMARKS
					WEIGHT重量(kg)
工具箱		Components	1	924A	
Tools box					
	520×460×245				11.58
端部螺栓		Components	2	924AA	In the box 装工具箱 (924A)
液压拉伸器					
Hydraulic jack					
	M45×4.5 D=120,H=102				8.31 × 2
承压圈		Steel	2	924AB	In the box 装工具箱 (924A)
Support for hydraulic jack					
	D=110,H=72				2.62 × 2
球形手柄		Components	2	924AH	In the box 装工具箱 (924A)
Tommy bar					
					0.1 × 2
拧紧螺母		Steel	2	912AH	In the box 装工具箱 (912A)
Stud setter					
	H=113, D=80, M45×4.5				2.61 × 2
TOTAL WEIGHT 总重				40.86 kg	
CSSC-MES DIESEL CO.,LTD.					

TOOLS				PAGE	24-02
MAIN DIESEL ENGINE 6G60MEC mk9.5				SHIP NO.	
END CHOCK BOLT TOOLS				BOX NO.	
NAME 名称	SKETCH 简图	MATERIAL 材料	SUPPLY PER SHIP 数量/船	DRAWING NO. 组立区分号	REMARKS
					WEIGHT重量(kg)
内六角扳手		Steel	2	924A7	In the box 装工具箱 (924AD)
Allen wrenches GB5356-85 4MMR					
带挡圈的密封圈	 D1=74.2,D2=88,D3=59, D4=61,d=5.7,t=2,s=5	Components	each 2	924A8 924A9	In the box 装工具箱 (924AD)
Sealing ring with back-up ring					
TOTAL WEIGHT 总重				0.10 kg	
	CSSC-MES DIESEL CO.,LTD.				

TOOLS				PAGE	30-01
MAIN DIESEL ENGINE 6G60ME-C9.5				SHIP NO.	
SCR SYSTEM TOOLS				BOX NO.	
NAME 名称	SKETCH 简图	MATERIAL 材料	SUPPLY PER SHIP 数量/船	DRAWING NO. 组立区分号	REMARKS WEIGHT重量(kg)
		Component	1	930AA	
踏板					
Platform board					10.2
		Component		930A2	
矩形钢管					
Rectangle pipe					22.97
		Component		930A3	
梯子					
Ladder for reactor					10
TOTAL WEIGHT 总重				43.10 kg	
	CSSC-MES DIESEL CO.,LTD.				

文件说明 Document Remarks	机 型 Eng. Type	CMD-MAN B&W6G60ME-C9.5 Tier III
	台 份 Set No.	44#45#46#47#
	工程编号 Engine No.	CE0561Y/562Y/576A/580A
	船 厂 Shipyard	江苏新时代造船有限公司
	船 号 Hull No.	0311117/18/19/20
	船级社 Classification Society	ABS

CMD-MAN-B&W 6G60ME-C MK9.5

LIST OF SPARE PARTS AND TOOLS FOR ACCESSORIES

主机附件备件工具清单（正稿）

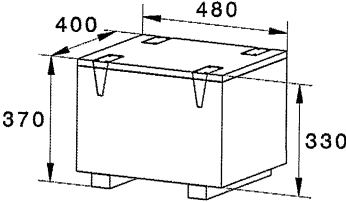
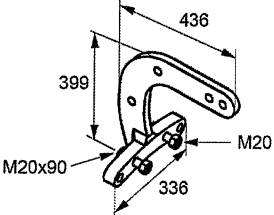
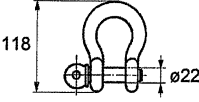
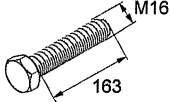
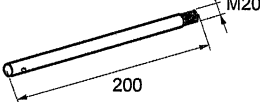
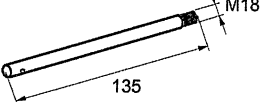
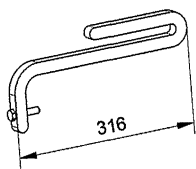
△₁ G60MEC-160王勇20180729

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						3
						2
						1
修 改 说 明 Corrected Description						
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						3
						2
						1
						0
王勇 2018.8.12	魏米列 2018.5.2	21月 2018				
编制 Compiled	校 对 Checked	审 核 Confirmed	审 定 Approved	会 签 Countersigned	批 准 Authorized	版本号 C.No.
被替代文件编号 Replace No.		设计参考文件编号 Reference No.		页 数 Pages	1	总页数 Total Pages
 上海中船三井造船柴油机有限公司 CSSC-MES Diesel Co., Ltd.				文件编号 Document No.	CE056151	

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Spare parts and tools for A270-L

增压器备件及工具

Part List / IHL-TECH			Document Number		
A270-L: Tools for customer ZT10 ZTV01			HZTL454602R0001		
No	Name	Sketch	Quantity	Part no	Weight/ piece(kg)
1	Wooden box		1	90011	11.500
2	Lifting device		1	90190	20.750
3	Shackle		2	90195	1.000
4	Press-off screw		6	90900	0.250
5	Guide bolt		3	90320	0.451
6	Guide bolt		3	90317	0.245
7	Angle		1	94020	1.030

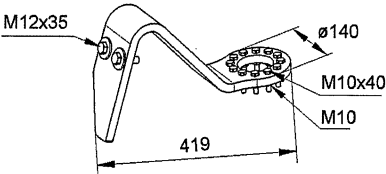


The representations in the diagrams can differ slightly from the actual parts supplied
 The listed weights are rounded off

Resp.dep.	Change-No	Page No.	No. of pages	Document	Part	Version	Revision
ZT	137680	1	2	IHL	E	00	-
ABB Turbo Systems Ltd		© Copyright 2015 ABB. All rights reserved.				ABB	

HZTL454602R0001_IHL_E_00 Druckdatum: 2015.10.23 13:17:47 / H102200

Spare parts and tools for A270-L
增压器备件及工具

Part List / IHL-TECH			Document Number		
A270-L: Tools for customer ZT10 ZTV01			HZTL454602R0001		
No	Name	Sketch	Quantity	Part no	Weight/ piece(kg)
8	Locking device		1	94003	7.100



The representations in the diagrams can differ slightly from the actual parts supplied
The listed weights are rounded off

ABB Turbo Systems Ltd		Page No.	No. of pages	Document	Part	Version	Revision	
		2	2	IHL	E	00	-	

HZTL454602R0001_IHL_E_00 Druckdatum: 2015.10.23 13:17:47 / H102200

Spare parts and tools for air cooler

空冷器芯子备件和工具（配一台空冷器）

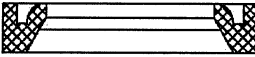
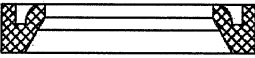
LIST OF AIR COOLER FITTINGS 空冷器配套件清单				DWG NO: 13 10 4052 WH-SL Rev. A	
				Page: 1	Total Page: 1
Kelvion Spare parts 备件		XLQ768.1 (167/36/16/4-NSv-S141-34N223)			
NO. 序号	Part. No 件号 Description 名称	Sketch and Dim 简图和尺寸	Quantity 数量	Material 材料 Mass 重量 (kg)	Code in DWG. 代号
1	13 17 0087 WH Rev. 5		2 cooler	No-asbestos fiber reinforced rubber gaskets 非石棉纤维增强橡胶板	垫片盒内 In the gasket box
	Header gasket 端盖垫片			1.0	
2	GIC-17-012-12		10 cooler	NBR-70 丁腈橡胶	工具箱内 In the toolbox
	Round Gasket 圆形垫片			0.2	
3	GIC-17-002-12		1 cooler	NBR 丁腈橡胶	工具箱内 In the toolbox
	"U" Gasket "U" 型垫			0.26	
4	100117123		4 cooler	T3 铜	工具箱内 In the toolbox
	Gasket 垫片			0.078	
5	100147908		4 cooler	HSn62-1 黄铜	工具箱内 In the toolbox
	Plugs 螺塞			0.88	
Remark Prep. Zhu QF Date 2017.1.10 Chk. [Signature] Date 7/2/11 Appr. [Signature] Date 7/1/11					
Manufacture's Name 制造厂商		凯络文换热器(中国)有限公司 Kelvion Heat Exchangers (China) Co., Ltd			
For this drawing, Kelvion Heat Exchangers (China) Co., Ltd reserves all right as per ISO 16016. 凯络文换热器(中国)有限公司将依据德国工业ISO 16016标准对此图纸保留所有权					

Spare parts and tools for air cooler (ONLY FOR ENGINE MAKER MOUNTING)

空冷器芯子备件和工具（配一台空冷器）（只用于主机厂安装）

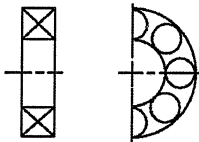
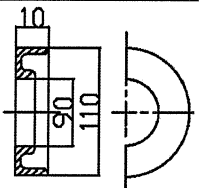
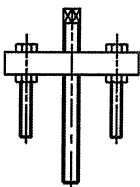
LIST OF AIR COOLER FITTINGS 空冷器配套件清单					DWG NO: 13 10 4062 VR-AL Rev. A	
					Page: 1	Total Page: 1
Kelvion 		KLQ768.1 (167/36/16/4-NSv-S141-34N223)				
Assembly Items 旋机附件						
NO. 序号	Part No 件号 Description 名称	Sketch and Dim 简图和尺寸	Quantity 数量	Material 材料 Mass 重量 (Kg)	Code In DWG. 代号	
1	GB/T70.1	 M16x45	42 cooler	Steel (3.3热浸锌)	工具箱内 In the toolbox	
	Bolt 螺钉			钢 (3.2+热浸锌)		
				1.5		
Remark						
Prep. Zhu QF						
Date 2027.7.18						
Chk. 						
Date 17.7.18						
Appr. 						
Date 7.18						
Manufacture's Name 制造厂商		凯络文换热器(中国)有限公司 Kelvion Heat Exchangers (China) Co., Ltd				
For this drawing, Kelvion Heat Exchangers (China) Co., Ltd reserves all right as per ISO 15016. 凯络文换热器(中国)有限公司将根据德国工业ISO 15016标准对此图纸保留所有权						

Spare parts for Turning gear
盘车机备件

LIST OF SPARE PARTS FOR ACCESSORIES FOR MAIN DIESEL ENGINE 主机附件备件清单				DRWG.NO.:	
				PAGE:	TOTALPAGE:
LECHUN		LIST OF SPARE PARTS FOR TURNING GEAR 盘车机备件清单		MAIN ENGINE TYPE 5-6G60ME-C 主机型号	
SPARE PARTS					
No. 序号	Name 名称	Sketch 简图和尺寸	Supply 供应数量		Remarks 备注
			Working 工作数量	Spare 备件数量	
1	HG4-692-67 Oil Seal 骨架油封	 PD190x240x15	1pcs	2pcs	减速器输出端用 For output end of speed reducer use
2	HG4-692-67 Oil Seal 骨架油封	 PD45x75x10	1pcs	2pcs	减速器输入端用 For input end of speed reducer use
3	GB279-64 Rolling Bearing 轴承	 6207	2pcs	2pcs	电机用 For electric motor use
MFR'S NAME 制造商		SHANGHAI LECHUN HEAVY MACHINERY & ELECTRONIC EQUIPMENT CO.,LTD. 上海乐春重工机电设备有限公司 TEL:86 21 51961688 51961699 FAX:86 21 51961688-8007			

Spare parts and tools for Aux. blowers
 辅助鼓风机备件及工具

List of for Aux. Blower with Hoyer motor 200L/225M
 配hoyer 200L/225M电机的辅助风机备件清单

SPARE PARTS&TOOLS LIST 工具备件清单		Aux. Blower of 辅助鼓风机		
No.	Name 名称	Sketch 简图	Spare 备件数量	Remarks 备注
1	Ball Bearing 轴承		1	6312/C3
2	PS-Sealing 气封		1	ø110Xø90X10
3	Impeller tool 拉模		1	
MFR'S NAME		Qiyao Power Systems Co. Ltd TEL:86 21 65687121 FAX:86 21 65680330		

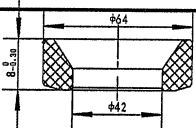
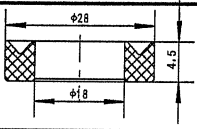
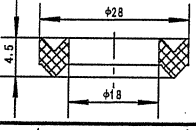
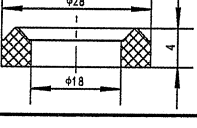
Spare parts for Main Starting Valve (DN40)

主起动阀备件 (DN40)

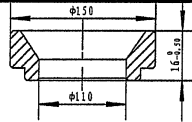
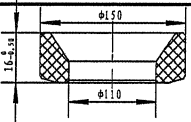
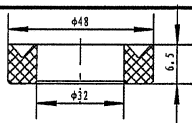
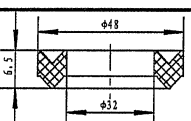
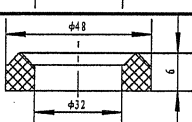
Q641 F-40系列DN40气动球阀备件清单

Spare Parts List of the Q641 F-40 Serie

DN40 Pneumatic Ball Valves

序号 No.	名 称 Name	主要尺寸 Main dimension	材 料 Material	数量 Quantity
1	密封圈 Sealing ring		聚四氟乙烯 Polyper Fluorethylene	2
2	上填料 Upper filler DN18 (FQCB-005-83)		聚四氟乙烯 Polyper Fluorethylene	1
3	中填料 Middle filler DN18 (FQCB-005-83)		聚四氟乙烯 Polyper Fluorethylene	2
4	下填料 Lower filler DN18 (FQCB-005-83)		聚四氟乙烯 Polyper Fluorethylene	1
5	O型密封圈 O-ring	$\phi 16 \times 2.4$	丁腈橡胶 GB1235-76 NBR	1
6	O型密封圈 O-ring	$\phi 24 \times 2.5$	丁腈橡胶 GB1235-76 NBR	1
7	O型密封圈 O-ring	$\phi 54.5 \times 5.3$	丁腈橡胶 GB/T 3452.1 NBR	2
8	O型密封圈 O-ring	$\phi 65 \times 3.1$	丁腈橡胶 GB1235-76 NBR	2
9	挡圈 (GB894.2-86) Elastic ring	$\phi 16$	65Mn	1

Spare parts for Main Starting Valve (DN150)
主启动阀备件 (DN150)

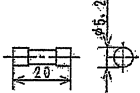
Q641F-40系列DN150气动球阀备件清单 Spare Parts List of the Q641F-40 Series DN150 Pneumatic Ball Valves				
序号 No.	名称 Name	主要尺寸 Main dimension	材料 Material	数量 Quantity
1	密封圈 Sealing ring		铝青铜 ZQAL9-4	1
2	密封圈 Sealing ring		聚四氟乙烯 Polyper Fluorethylene	1
3	上填料 Upper filler DN32 (FQCB-005-83)		聚四氟乙烯 Polyper Fluorethylene	1
4	中填料 Middle filler DN32 (FQCB-005-83)		聚四氟乙烯 Polyper Fluorethylene	2
5	下填料 Lower filler DN32 (FQCB-005-83)		聚四氟乙烯 Polyper Fluorethylene	1
6	O型密封圈 O-ring	Φ35×3.1	丁腈橡胶 GB1235-76 NBR	1
7	O型密封圈 O-ring	Φ50×3.1	丁腈橡胶 GB1235-76 NBR	1
8	O型密封圈 O-ring	Φ150×5.3	丁腈橡胶 GB/T 3452.1 NBR	2
9	O型密封圈 O-ring	Φ160×3.1	丁腈橡胶 GB1235-76 NBR	2
10	挡圈 (GB894.2-86) Elastic ring	Φ35	65Mn	1

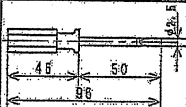
Spare parts and tools for Oil Mist Detector

油雾探测器备件及工具

Spare parts and tools for oil mist detector

油雾探测器备件和工具

SPARE PARTS					PAGE	
TYPE: MD-SX OILMIST DETECTOR					SHIP NO.	
					BOX No.	
No.	NAME PARTS NO.	SKETCH	QUANTITY			REMARKS
			WORKING		SPARE	
			REQ SET	REQ VESS		
1	FUSE 熔断器 ヒューズ		2	-	2	F-7142-125-6A SATO PARTS

TOOLS			PAGE			
TYPE: MD-SX OILMIST DETECTOR			SHIP NO.			
			BOX No.			
No.	NAME	SKETCH	QUANTITY			REMARKS
	PARTS NO.		WORKING PER SET	PER VESS	SPARE	
1	DRIVER ドライバー ドライバー		-	-	1	210-118S
						WAGO
WER'S NAME & ADDRESS		DAIHATSU DIESEL MFG. CO., LTD. 45-BANTI, AMURA, KORIYAMA, SHIGA, JAPAN				

Spare parts for Starter of Turning Gear

盘车机起动器备件

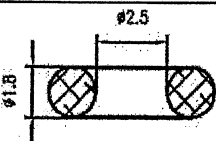
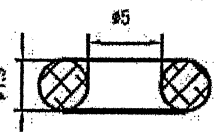
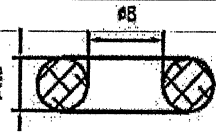
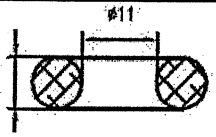
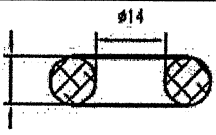
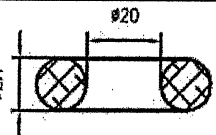
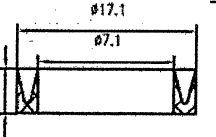
1		2		3		4		5		6		7		8	
NO. 序号	NAME 名称	DESCRIPTION AND SPECIFICATION 型号规格		OUTLINE 外形		QTY. 数量		REMARK 备注		MANUFACTURER 生产厂家					
1	INDICATING LAMP 指示灯	XB2BVB1LC				1		AC/DC24V WH AC/DC24V 白色		Schneider 施耐德					
2	RELAY 中间继电器 (4触点)	RXV 4AD2P7				1				Schneider 施耐德					
3	RELAY SOCKET (2/4 Contact) 中间继电器插座 (2/4触点)	RXZE2M114				1				Schneider 施耐德					
4	SELECT SWITCH 两位选择开关	XB2BD25C				1		INO +1NC BLK INO+1NC 黑色		Schneider 施耐德					
5	button 平头按钮 (红色)	XB2BA42C				1		RD, 1NC 红色 1NC		Schneider 施耐德					
6	BUTTON WITH LAMP 带灯按钮	XB2BW33B1C				1		INO green INO 绿色		Schneider 施耐德					
7	CONTACT ELEMENT 常闭按钮本体	ZB2BE102C				1		1NC 1NC		Schneider 施耐德					
以下插座为附件, 由船厂安装															
1	SOCKET 插座	NM3041				2		16A 5P AC110V 50~60HZ 16A 5P AC110V 50~60HZ		NANJING MENNERIES 南京曼奈柯斯电器有限公司					
△															
A															
Rev. 标记 DESIGNER 设计															
Modif. 修改原因 Qty. 数量 Name 姓名 Date 日期															
2017-05-25															
2017-05-25															
2017-05-25															
Turning Gear Starter Panel 盘车机起动箱															
CSSC 安庆船用电器有限责任公司 ANQING MARINE ELECTRIC DEVICE CO., LTD.															
SPARE PARTS LIST 备件清单															
Drg. No. 图号 AD106-17003-900															
PAGE 11 第 11 页															
TOTAL: 11 共 11 页															

辅助鼓风机起动器备件



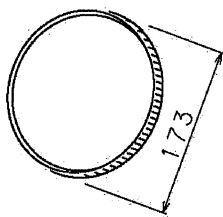
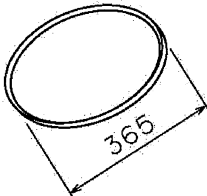
Spare parts for High Pressure Pump (Type: HPU-225)
高压泵备件

HPU-225风动液压泵配件清单

序 号	订货号	名 称	规 格	简 图	数 量	备注
1	19	O型密封圈	d2.5×1.8		1件	
2	16	O型密封圈	d5×1.9		1件	
3	10	O型密封圈	d8×1.9		3件	
4	11	O型密封圈	d11×1.9		1件	
5	2	O型密封圈	d14×2.4		4件	
6	25	O型密封圈	d20×2.4		1件	
7	29	V型密封圈	UN7.1		1件	

常州市陆氏船舶机械有限公司

Spare parts and tools for Exhaust Valve Grinding Machine
排气阀磨机备件/工具

TR2308 									
SPARE						PAGE		1 / 1	
YGS-B**MC						SHIP NO.			
EXHAUST VALVE SPINDLE&SEAT GRINDING MACHINE						BOX NO.			
	NAME	SKETCH	MATERIAL	SUPPLY PER SHIP		DRAWING		REMARKS	
				WORK-ING	SPARE	NO.	PART NO.		
1	传动皮带 WORK SPINDLE PULLEY BELT 磁石軸 プーリベルト		RUBBER	1				5M545 0.004Kg	
2	V型皮带 V BELT Vベルト		RUBBER	1				A-45 0.13Kg	

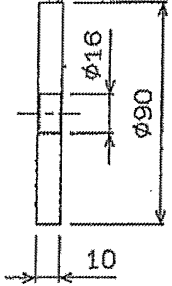
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YAMASHINA SEIKI CO.,LTD.

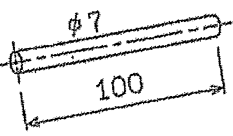
Spare parts and tools for Exhaust Valve Grinding Machine

排气阀磨机备件/工具

TR1654 

SPARE					PAGE	1 / 1		
YGS-B**MC					SHIP NO.			
EXHAUST VALVE SPINDLE&SEAT GRINDING MACHINE					BOX NO.			
No.	NAME	SKETCH	MATERIAL	SUPPLY PER SHIP		DRAWING		REMARKS
				WORK-ING	SPARE	NO.	PART NO.	
1	WHEEL 砥石 砂轮			1	1			YS001 0.1Kg

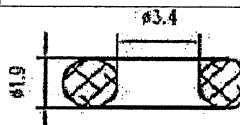
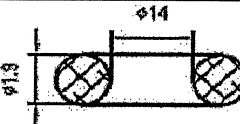
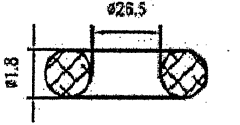
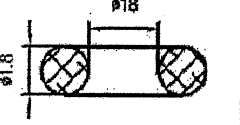
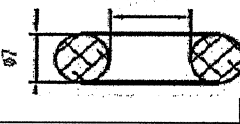
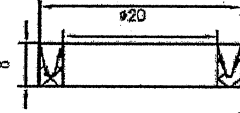
TR1654 

TOOL					PAGE	1 / 1		
YGS-B**MC					SHIP NO.			
EXHAUST VALVE SPINDLE&SEAT GRINDING MACHINE					BOX NO.			
No.	NAME	SKETCH	MATERIAL	SUPPLY PER SHIP		DRAWING		REMARKS
				WORK-ING	SPARE	NO.	PART NO.	
1	GRINDING WHEEL LOCKING BAR 砥石軸 ロックハンドル 锁紧棒			1				0.02Kg

Spare parts for fuel valve test equipment

喷油器试验台备件

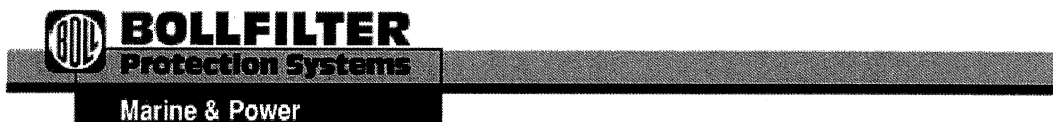
HDP1100-D2喷试台配件清单

序号	订货号	名 称	规 格	简 图	数量	备注
1	13	O型密封圈	d3.4×1.9		2件	
2	11	O型密封圈	d14×1.9		3件	
3	2	O型密封圈	d26.5×1.8		3件	
4	6	O型密封圈	d18×1.8		4件	
5	21	O型密封圈	d190×7		1件	
6	52	V型密封圈	UN 20		1件	

常州市陆氏船舶机械有限公司

Spare parts and tools for Hydraulic Oil Filter

液压油滤器备件



List of tools & spare parts

Item 序号	P/N 零件号	Description 名称	QTY 数量	Remark 备注
1	6700750	Key for unscrewing the filter element 拆滤芯专用工具	1 pc	
2	2380014	Crank handle for manual operation 应急操纵手柄	1 pc	
3	1980343	Boll 6µm bypass element 波尔 6µm 旁通滤芯	1 set	

Spare parts and tools for heating tank
滑油加热柜备件

序号 NO.	产品型号 Product type	备件 Spare part	规格 Size	数量 Qty	单位 Unit	备注 Remarks
1	85SLD60-16-0	滤芯 Filter element	200 μm	1	套	
2	GB162.1	电磁阀 Solenoid	65X3.55 mm	1	套	
3	GB1-30 AC24V	温度速率继电器 Relay	AC24V	1	套	
HEATING TANK FOR CYLINDER OIL						
SHANGHAI CSSC-MES DIESEL CO., LTD.						
SPARE PARTS LIST						
HTC037A-B1						

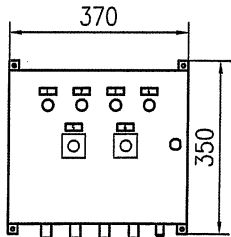
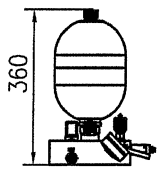
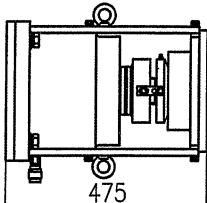
Spare parts for HPS starter HPS 起动泵起动箱备件清单

NO. 序号	NAME 名称	DESCRIPTION AND SPECIFICATION 型号规格	OUTLINE 外形	QTY. 数量	REMARK 备注	MANUFACTURER 生产厂家
1	INDICATING LAMP 指示灯	XB2BV81LC		1	AC/DC24V White AC/DC24V 白色	Schneider 施耐德
2	INDICATING LAMP 指示灯	XB2BV84LC		1	AC/DC24V White AC/DC24V 白色	Schneider 施耐德
3	INDICATING LAMP 指示灯	XB2BV83LC		1	AC/DC24V White AC/DC24V 白色	Schneider 施耐德
4	INDICATING LAMP 指示灯	XB2BV86LC		1	AC/DC24V GRN AC/DC24V 绿色	Schneider 施耐德
5	RELAY 中间继电器 (4触点)	RXH 4AB2F7		1	AC/DC24V BLU AC/DC24V 蓝色	Schneider 施耐德
6	RELAY SOCKET (2/4 Contact) 中间继电器插座 (2/4触点)	RXZE2M114		5		Schneider 施耐德
7	RELAY 中间继电器	RXH 4AB2B7		1		Schneider 施耐德
8	SELECT SWITCH 三位选择开关	XB2BR3C		1	2NO BLK 2NO 黑色	Schneider 施耐德
9	CONTACT ELEMENT 一常开按钮本体	ZE2BE101C		1	1NO 1NO	Schneider 施耐德
10	INDICATING LAMP 平头按钮	XB2BA31C		1	1NO Green 1NO 绿色	Schneider 施耐德

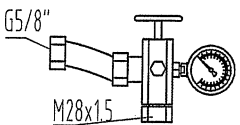
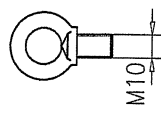
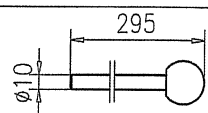
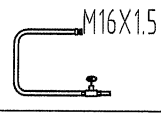
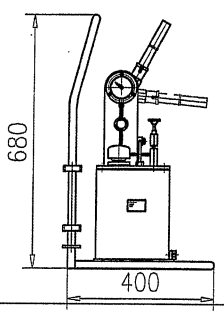
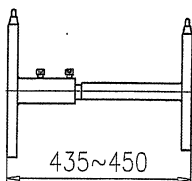
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Scope of hydraulic top bracing

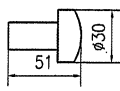
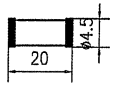
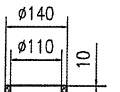
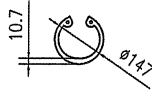
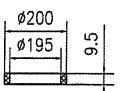
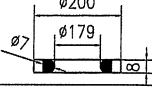
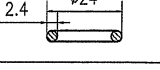
液压顶撑供货范围

1		2				
HG-00ZZDAD						
3	DYDZ200-DK	Electric control box 电气控制箱	component 组件	1		
2	DYDZ200-FK	Control unit and accumulator include O ring seal 控制单元与蓄能器 含“O”型圈	component 组件	4		
1	DYDZ200-YG	Cylinder unit 液压缸单元	component 组件	4		
借通用件登记						
描 图						
校 描						
NO. 序号		Code 代号	Name 名称	Material 材料	Qty. 数量	Remark 标记
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旧底图总号						
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日期		标记	处数	更改文件号	签字	日期
		设计		标准化		
		校对		审定		
		审核				
		工艺		日期		
		图样标记				重量
						比例
						1:1
		第 16 页 共 23 页				
		第 页				
1		2				

Tool for hydraulic top bracing
液压顶撑工具清单

1		2				
DYDZ200-FJ						
6	CQJ284x.5	charge tool 充气工具	component 组件	1		
5	GB/T 827	regulation pole M10 吊环螺栓M10	Q235A	1		
4	YDZZ240A-12	regulation pole 调节杆	component 组件	2		
3	RG	Drain hose 空气排放软管	component 组件	1		
2	GYB6	Hand pump (with hose & coupling) 手摇泵(含软管、接头)	component 组件	1		
1	DYDZ200-GJ	Fitting tool 安装工具	component 组件	1		
借通用件登记						
描 图						
校 描						
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签 字		tool & accessories list			 南通航海机械集团有限公司	
日期		hydraulic top bracing			DYDZ200-FJ	
工艺		共 页			第 页	
1		2				

Spare parts for hydraulic top bracing
液压顶撑备件清单

1		2				
DYDZ200-BJ						
7		indicator lamp red, green, white 1pc 指示灯(红绿白各一)	component 组件	3		A
6		Fuse 熔芯6A	component 组件	4		
5	JB/ZQ4606-86	Dust seal 防尘圈110	Wool 半粗羊毛	8		
4	GB893-76	Block ring 挡圈140	65Mn	8		
3	GST5909-2000	Slide ring 斯来圈	PTFE 聚四氟乙烯	8		
2	GSF2000-01	Combined ring 格来圈	PTFE 聚四氟乙烯	8		
1	GB1235-76	"O" ring O型密封圈	NBR 丁晴橡胶	4		
借通用件登记						
描 图						
校 描						
旧底图总号						
签 字						
日期						
NO. 序号		Code 代号	Name 名称	Material 材料	Qty. 数量	Remark 标记
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独立式主机液压顶推支撑 Hydraulic top bracing stand-Alone type				 南通航海机械集团有限公司		
图样标记				重量	比例	备件清单 Spare parts
共 页				第 页		DYDZ200-BJ
1		2				

Spare parts for LDCL pump
LDCL 循环泵起动器备件

1		2		3		4		5		6		7		8	
NO. 序号		NAME 名称		DESCRIPTION AND SPECIFICATION 型号规格		OUTLINE 外形		QTY. 数量		REMARK 备注		MANUFACTURER 生产厂家			
1		INDICATING LAMP 指示灯		XB2BV81LC				1		AC/DC24V White AC/DC24V 白色		Schneider 施耐德			
2		INDICATING LAMP 指示灯		XB2BV84LC				1		AC/DC24V White AC/DC24V 白色		Schneider 施耐德			
3		INDICATING LAMP 指示灯		XB2BV83LC				1		AC/DC24V GRN AC/DC24V 绿色		Schneider 施耐德			
4		INDICATING LAMP 指示灯		XB2BV86LC				1		AC/DC24V BLU AC/DC24V 蓝色		Schneider 施耐德			
5		RELAY 中间继电器 (4触点)		RXM 4AB2P7				1				Schneider 施耐德			
6		RELAY SOCKET (2/4 Contact) 中间继电器插座 (2/4触点)		RXZE2M114				1				Schneider 施耐德			
7		RELAY 中间继电器		RXM 4AB2B7				1				Schneider 施耐德			
8		SELECT SWITCH 三位选择开关		XB2BD33C				1		2NO BLK 2NO 黑色		Schneider 施耐德			
9		CONTACT ELEMENT 一常开按钮本体		ZB2BE101C				1		1NO 1NO		Schneider 施耐德			
10		INDICATING LAMP 平头按钮		XB2BA31C				1		1NO Green 1NO 绿色		Schneider 施耐德			

Rev. 修改		Modif. 修改		Qty. 数量		Name 姓名		Date 日期		LDCL CIRCULATION PUMP STARTER CABINET LDCL 循环泵启动箱		ANQING MARINE ELECTRIC DEVICE CO., LTD 安庆船用电器有限责任公司		SPARE PARTS LIST 备件清单		Drg. No. 图号 AD404-17003-700		Page 12 共 12 页	
DESIGNED 设计		陈永		CONFIRMED 审核		陈永		2017-03-11										第 12 页	
CHECKED 校对		陈永		APPROVED 批准		陈永		2017-03-11										TOTAL: 12 共 12 页	

文件说明 Document Remarks	机型 Eng. Type	CMD-MAN B&W 6G60ME-C9.5 Tier III
	台份 Set No.	44#45#46#47#
	工程编号 Engine No.	CE0561Y/562Y/576A/580A
	船厂 Shipyard	江苏新时代造船有限公司
	船号 Hull No.	0311117/18/19/20
	船级社 Classification Society	ABS

CMD-MAN B&W 6G60ME-C9.5 Tier III

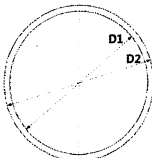
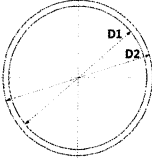
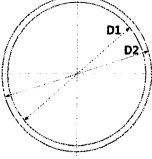
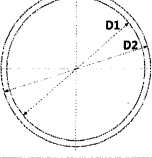
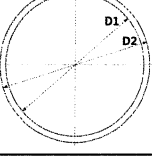
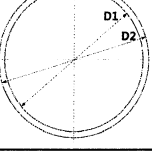
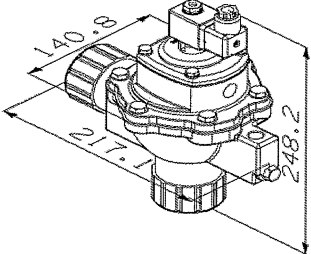
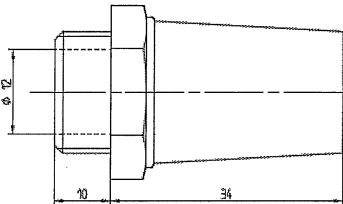
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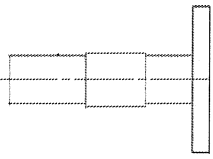
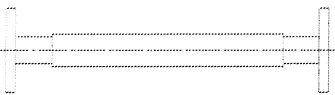
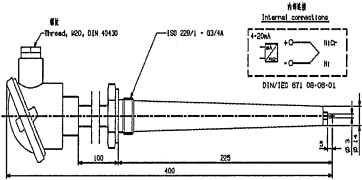
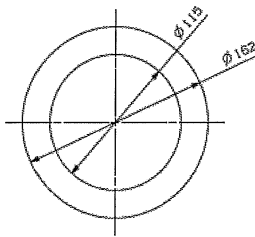
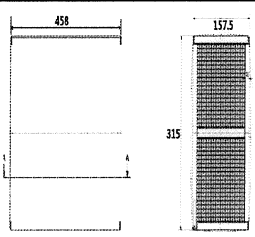
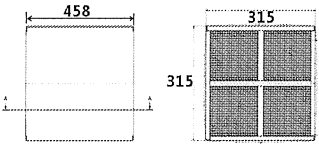
SCR系统备件清单

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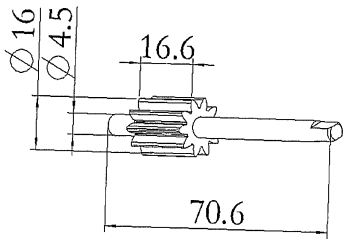
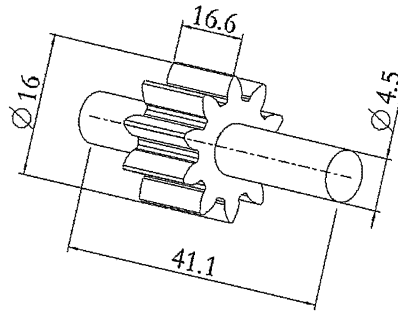
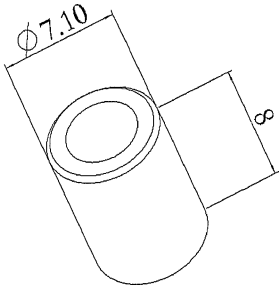
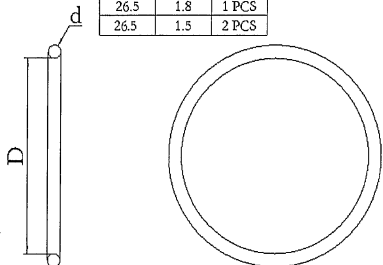
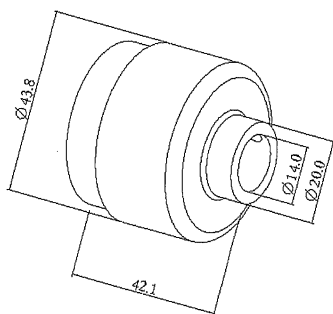
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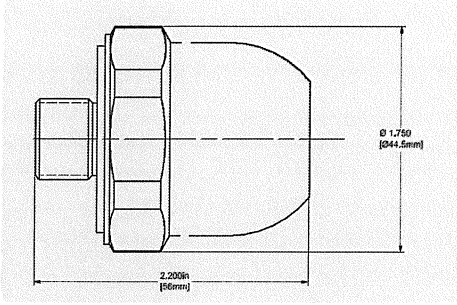
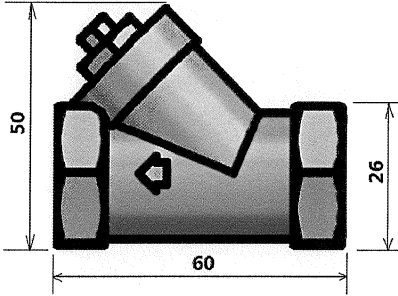
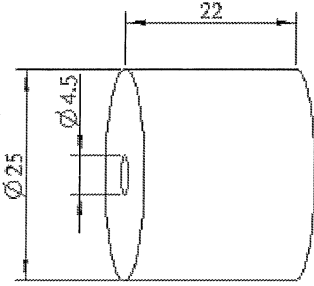
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	SCR SPARE PARTS			D6521509-0.		
	备件清单					
PART OR/AND DRAWING	DESCRIPTION 名称	SKETCH 简图	QTY. 数量	MASS 重量(kg)	MATERIAL 材料	Remark 备注
801D5	Gasket 垫片	 D1=618,D2=670	2		Carbon steel,1Cr18 Ni9 and expanded graphite	Used in manhole cover sealing of reactor
801A3&801B13&801Q2	Gasket 垫片	 D1=825,D2=885	2		Carbon steel,1Cr18 Ni9 and expanded graphite	Used in flange sealing of RSV/RBV/RTV and pipe
801F4	Gasket 垫片	 D1=117,D2=158	2		Carbon steel,1Cr18 Ni9 and expanded graphite	Used in flange sealing of RVV and pipe
801R4	Gasket 垫片	 D1=260,D2=310	1		Carbon steel,1Cr18 Ni9 and expanded graphite	Used in flange sealing of CBV and pipe
801R5	Gasket 垫片	 D1=277,D2=328	1		Carbon steel,1Cr18 Ni9 and expanded graphite	Used in flange sealing of CBV and pipe
801B12	Gasket 垫片	 D1=90,D2=126	1		Carbon steel,1Cr18 Ni9 and expanded graphite	Used in flange sealing of RTV bypass pipe
801G24	SOOT BLOWER VALVE 吹灰阀		2	4.079× 2	component	Used for Soot Blowing System
801G25	Silencer 消音器		2	0.026×2	component	Used for Soot Blowing Valve

	SCR SPARE PARTS			D6521509-0.		
	备件清单					
801G18	Reinforced Hose 软管	 length=212	1		Stainless Steel:022Cr 17Ni12Mo2	Used for Soot Blowing Valve connection
801G19	Reinforced Hose 软管	 length=599	2		Stainless Steel:022Cr 17Ni12Mo2	Used for gas pipe connection
806C1	Temperature sensor 温度传感器		1	1.2kg	NICR-NI	
801M4	Gasket 垫片		1	160g	FJ2815	Used for Injection lance
801E2	Catalyst block 催化剂		3	15.4kg	component	Used for reactor
801E3	Catalyst block 催化剂		6	28.9kg	component	Used for reactor

	SCR Aux. System Control Cabinet SPARE PARTS			D6521509-0.
	辅助控制箱备件清单			
PART OR/AND DRAWING NO. 料号和图号	DESCRIPTION 名称	SKETCH 简图	QTY. 数量	Remark 备注
XB2-BVB1LC 24V	指示灯 Indicator		1	
XB2-BVB3LC 24V	指示灯 Indicator		1	
XB2-BVB4LC 24V	指示灯 Indicator		1	
ZB2-BD2C 1NO+1NC	开关 Select switch		1	
ZB2-BA5C 1NO+1NC	按钮 Butten		1	

		UREA INJECTIONG SYSTEM SPARE PARTS			D6521509-0.										
		尿素喷射系统备件													
NO.	DESCRIPTION 名称	SKETCH 简图	QTY. 数量	MASS 重量(kg)	MATERIAL 材料	REPLACEMENT CONDITION 更换条件									
1	MRB170SZKLF用主动齿轮 Active Gear		2	9.6g*2	Gear: PEEK Draft: Ceramics	being used for 20000h; or impaired									
2	MRB170SZKLF用从动齿轮 Passive Gear		2	6.8g*2	Gear: PEEK Draft: Ceramics	being used for 20000h; or impaired									
3	MRB170SZKLF用轴套组件 Pump shaft sleeve		10	0.2g*10	NdFeB	being used for 20000h; or impaired									
4	MRB170SZKLF用密封圈组件 Seal ring	 <table border="1" data-bbox="509 1442 676 1507"><thead><tr><th>D</th><th>d</th><th></th></tr></thead><tbody><tr><td>26.5</td><td>1.8</td><td>1 PCS</td></tr><tr><td>26.5</td><td>1.5</td><td>2 PCS</td></tr></tbody></table>	D	d		26.5	1.8	1 PCS	26.5	1.5	2 PCS	2 set	0.2g*6	PTEF	being used for 20000h; or impaired
D	d														
26.5	1.8	1 PCS													
26.5	1.5	2 PCS													
5	MRB170SZKLF用外磁驱 External magnetic drive		2	127g*2	NdFeB	being used for 20000h; or impaired									

6	喷嘴137420-00050-316L Injector		1	270g	316L	being used for 20000h; or impaired
7	液体过滤器 Filter		2	300g	200目	impaired
8	MRB170SZKLF用内磁球 internal magnetic drive		2	46g*2	NdFeB	being used for 20000h; or impaired