Marine Transmission

TK 650 L

STANDARD SCOPE

SAE housing # 0, #1
Flexible coupling for 14" and 18" flywheel
Mechanical control valve
Oil strainer
Trolling valve (mechanical or electrical)
Oil filter mounted
Oil cooler with thermostatic bypass valve
Companion flange/bolts set
Mounting brackets
Shaft with key

Available Ratio's 3.53, 4.04,4.48
Max Input Torque: 222.7 (Kgf.m)
Dry Weight: 547 kg

ADVANTAGES OF TK 650 L

01 **Greater durability through change of the rubber block made of special material.**
02 **Hydraulic clutch can be easily handled outside.**
03 **Control system fitted for a small-size ship and high speed.**
04 **Guaranteed durability.**

SPECIFICATIONS

Model	Reduction Ratio	Max. Input Speed (rpm)	Max. Input Torque (Kgf.m)	Input Rating									Dry Weight (Kg)	Flywheel Housing (SAE No.)	Flywheel (Clutch No.)
				1600 rpm			1800 rpm			2100 rpm					
				KW	HP	PS	KW	HP	PS	KW	HP	PS			
TK 650 L	3.53, 4.04 4.48	2,600	222.7	365	490	497	411	551	559	480	644	653	547	**0,1**	14,18

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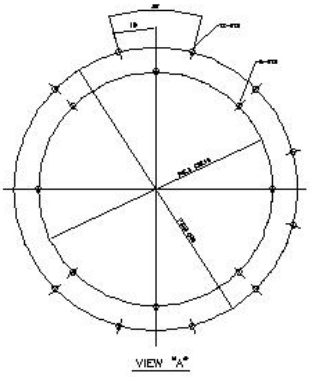
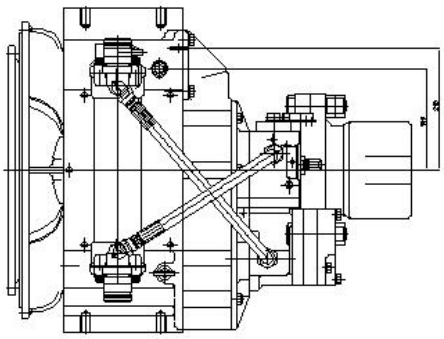
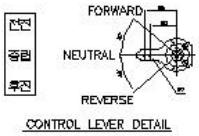
TK 650 L

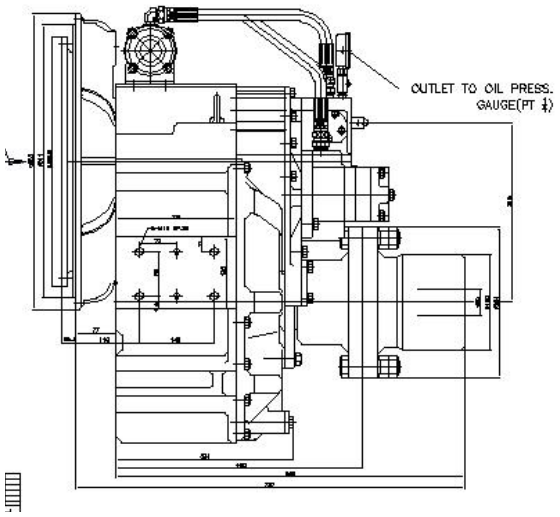


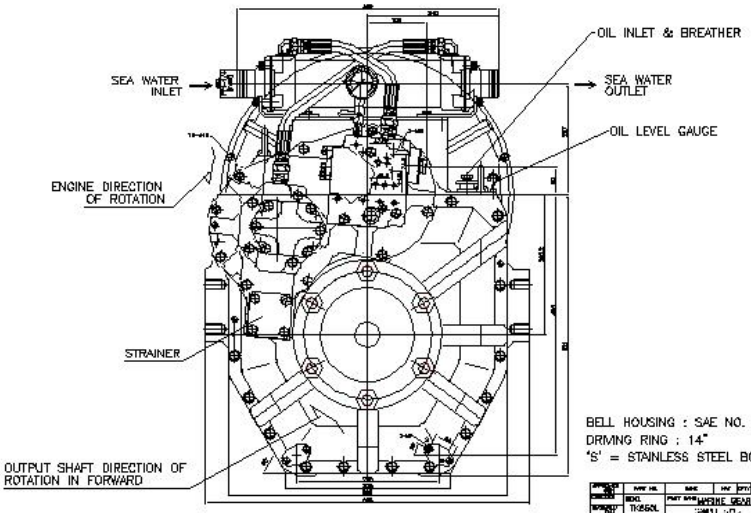


TK650L MARINE GEAR SPECIFICATION			
GEAR RATIO	4.04, 4.48		
OIL CAPACITY	17 l		
WEIGHT	530 kg		
OIL VISCOSITY	SAE #30		
STRAINER	WIRE MESH		
OIL PRESSURE	CLUTCH OIL	18~23 kg/cm²	AT RATED ENGINE SPEED
	LUB. OIL	1~5 kg/cm²	
DIRECTION OF ROTATION IN FORWARD	INPUT SHAFT	C.C.W VIEWED FROM THE STERN	
	OUTPUT SHAFT	C.W VIEWED FROM THE STERN	
OIL CHANGE INTERVAL	THE FIRST 100HOURS OF INITIAL OPERATION AND EVERY 1000HOURS THEREAFTER.		
SHIFTING LIMIT	UNDER 50% OF THE RATED ENGINE SPEED.		
OIL COOLER	WATER FLOW 40~60 l/min.		
	TEMPREATURE OF COOLING WATER	MAX. 32°C	



CONTROL LEVER DETAIL

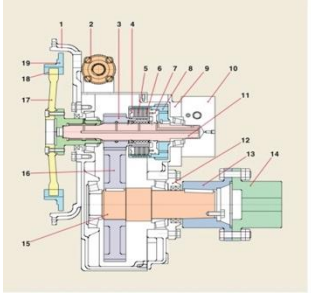




BELL HOUSING : SAE NO. #1
DRIVING RING : 14"
'S' = STAINLESS STEEL BOLTS

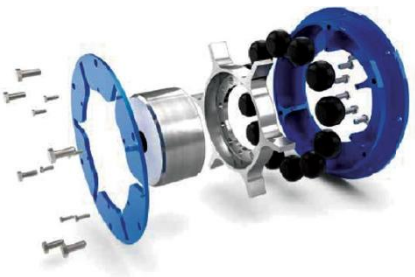
PRECAUTIONS

- Align the center of engine with marine gear (For greater effectiveness and longer lifespan)
- Install the supporting bracket of marine gear.
- When assembling flange on output shaft of marine gear, be sure to align another flange accurately.
- Make sure to wash flywheel housing cover if dust should accumulate.
- When installing the cable and the remote-control level, check to make sure the marine gear level is smooth.
- The oil with the viscosity equivalent to SAE#30 is recommended.
- Check the oil amount of oil before sailing.
- After 100 hours of operation check the oil, and then change every 1,000 hours.



▸ SECTIONAL DRAWING

❶ Wheel Cover	⓫ Input Shaft
❷ Oil Cooler	⓬ Retainer Caver
❸ Pinion Gear	⓭ Coupling
❹ Plate, Side	⓮ Coupling Companion
❺ Plate, Sintered	⓯ Output Shaft
❻ Plate, Steel	⓰ Reduction Gear
❼ Piston	⓱ Spider
❽ Drum Gear	⓲ Rubber Block
❾ Block Cover	⓳ Driving Ring
❿ Control Block	



ADVANTAGES OF FLEXIBLE COUPLING

01 **Plug-in Connection**

02 **Heat-Resistant up to 130℃**

03 **Fail-safe solution**

04 **Lubrication free**

05 **Rubber block solution**

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