

# Marine Transmission

## TK 280

### STANDARD SCOPE

- SAE housing #1, #2, #3
- Flexible coupling for 11.5" and 14" 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**      1.97, 2.54, 3.04, 3.33, 3.55  
**Max Input Torque:**    71.62(Kgf.m)  
**Dry Weight:**            200 kg

### ADVANTAGES OF TK 280

- 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

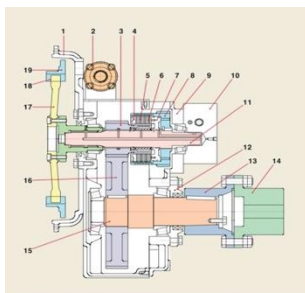
| Model         | Reduction Ratio                | Max. Input Speed (rpm) | Max. Input Torque (Kgf.m) | Input Rating |     |     |          |     |     |          |     |     | Dry Weight (Kg) | Flywheel Housing (SAE No.) | Flywheel (Clutch No.) |
|---------------|--------------------------------|------------------------|---------------------------|--------------|-----|-----|----------|-----|-----|----------|-----|-----|-----------------|----------------------------|-----------------------|
|               |                                |                        |                           | 1600 rpm     |     |     | 1800 rpm |     |     | 2100 rpm |     |     |                 |                            |                       |
|               |                                |                        |                           | KW           | HP  | PS  | KW       | HP  | PS  | KW       | HP  | PS  |                 |                            |                       |
| <b>TK 280</b> | 1.97, 2.54, 3.04<br>3.33, 3.55 | 3,000                  | 71.62                     | 132          | 177 | 180 | 154      | 207 | 210 | 176      | 236 | 240 | 200             | 1,2,3                      | 11.5,14               |

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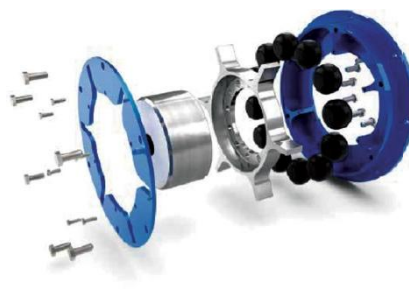
### PRECAUTIONS

- 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

- |                   |                       |
|-------------------|-----------------------|
| 1 Wheel Cover     | 11 Input Shaft        |
| 2 Oil Cooler      | 12 Retainer Cover     |
| 3 Pinion Gear     | 13 Coupling           |
| 4 Plate, Side     | 14 Coupling Companion |
| 5 Plate, Sintered | 15 Output Shaft       |
| 6 Plate, Steel    | 16 Reduction Gear     |
| 7 Piston          | 17 Spider             |
| 8 Drum Gear       | 18 Rubber Block       |
| 9 Block Cover     | 19 Rubber Ring        |
| 10 Control Block  |                       |



### ADVANTAGES OF FLEXIBLE COUPLING

- 01 Plug-in Connection
- 02 Heat-Resistant up to 130°C
- 03 Fail-safe solution
- 04 Lubrication free
- 05 Rubber block solution