

# AXIAL PISTON TRAVEL MOTOR

## PTM SERIES

### PTM-59/34-01-R53

The PTM Series is a hydraulic motor with a planetary reduction gear, which can be controlled from high-speed low torque to low-speed high torque, and vice versa. It is used in various areas, including construction, shipbuilding, and industrial machinery and vehicles with special functions.

- The PTM Series is a two speed control-type axial piston motor in which a double-counter balance valve and a mechanical brake are built.
- The motor of high-pressure and high-capacity has an optimized design at every part in it.
- It combines the hydraulic motor and the planetary reduction gear with various built-in functions.
- The two speed of the motor is properly controlled by adjusting the exterior pilot.
- The double counter balance valve and the shockless, cross over relief valve being built in the motor's main body, the motor is equipped with a brake system which is excellent in the absorption of shocks.
- The mechanical brake is a negative brake and operates together with the counter balance valve. It operates and stops operation automatically as the motor runs and stops running.



PTM系列是附加减速器的液压发动机，广泛适用于建筑机械、船舶机械、特种车辆、工业机械等领域，可变换高速低扭力、低速高扭力的发动机。

- PTM系列是一种双速写盘型轴向柱塞马达，包含制动阀和机械制动器。
- 是把发动机各部分系统最优化的高压、高性能发动机。
- 它最佳地结合了电机和行星齿轮减速器，具有各种内置附加功能的优良特性。
- 双速斜盘式电机的体积变化通过外部先导操作执行适当的体积转换。
- 发动机主机配有Double Counter Balance Valve和Shockless, Cross Over Relief Valve，具有Shock少的Brake功能。
- 机械制动装置时Negative Brake，与Counter Balance Valve连动，当停止时，机械制动自动动作，启动时自动解除。



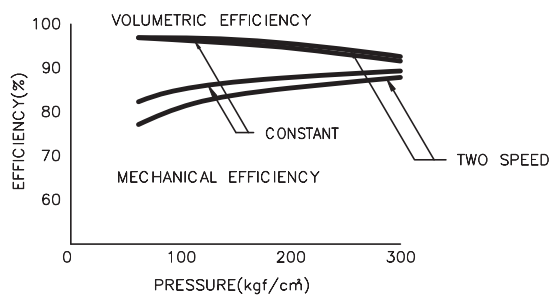
# PTM-59/34-01-R53



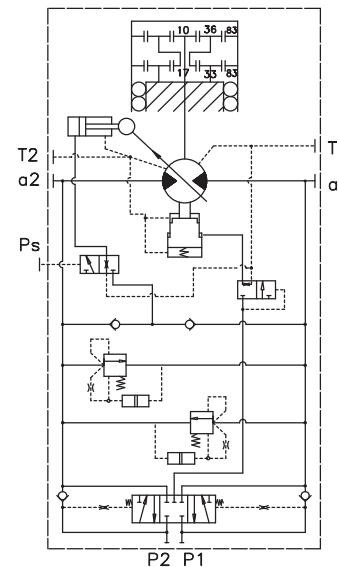
## Specification

| OUTPUT TORQUE<br>(kgf·m) | OUTPUT SPEED<br>(rpm) | GEAR RATIO | MOTOR                    |                    |                                          |                                                      |                           |                     | WEIGHT<br>(kg) |
|--------------------------|-----------------------|------------|--------------------------|--------------------|------------------------------------------|------------------------------------------------------|---------------------------|---------------------|----------------|
|                          |                       |            | DISPLACEMENT<br>(cc/rev) | MAX SPEED<br>(rpm) | RATED PRESSURE<br>(kgf/cm <sup>2</sup> ) | TWO SPEED CONTROL PRESSURE<br>(kgf/cm <sup>2</sup> ) | PARKING TORQUE<br>(kgf·m) | MAX FLOW<br>(l/min) |                |
| 1520/877                 | 26.7/46.3             | 53.7       | 59.3/34.2                | 1433/2485          | 300                                      | 20                                                   | 9                         | 85                  | 86.0           |

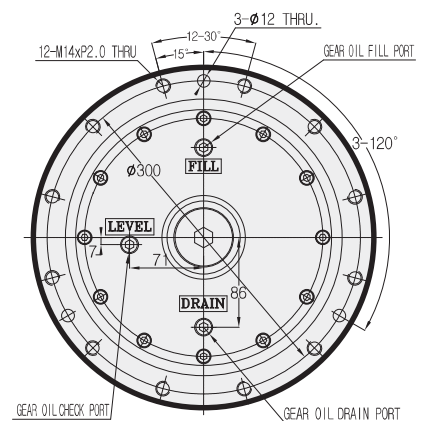
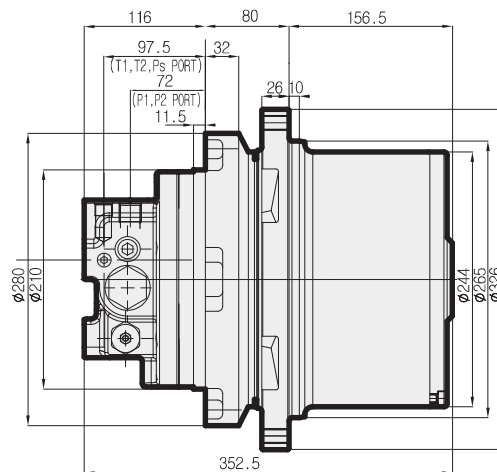
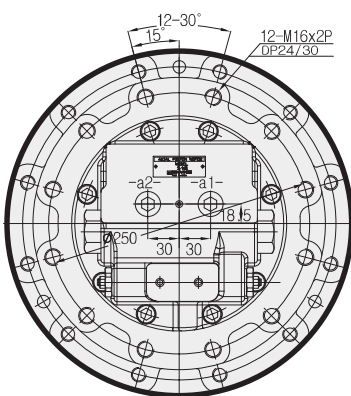
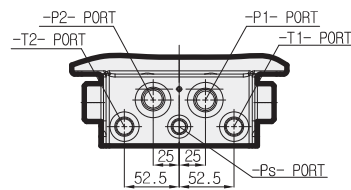
## Performance Curve



## Circuit



## Dimensions



## Port Size

| INLET / OUTLET PORT | CASE DRAIN PORT | PRESSURE GAGE PORT | 2SPEED CONTROL PORT | GEAR OIL CHECK PORT | GEAR OIL DRAIN PORT | GEAR OIL FILL PORT |
|---------------------|-----------------|--------------------|---------------------|---------------------|---------------------|--------------------|
| PF 1/2(P1, P2)      | PF 3/8(T1, T2)  | PF 1/4(a1, a2)     | PF 1/4(Ps)          | PT 3/8              | PT 3/8              | PT 3/8             |