

GM5 Series



齒輪馬達

GEAR MOTOR

一、概述 Description

GM5系列高压齿轮马达为三片式结构，主要由前盖、中间体、后盖及齿轮组成。前后盖内各压装两个DU轴承。后盖内装有压力板，可进行轴向压力补偿和径向压力平衡，大大提高了齿轮马达的性能指标。

GM5系列可以提供不带前轴承的单、双旋向齿轮马达和带前轴承的单、双旋向齿轮马达四种结构型式。其中带前轴承的齿轮马达可承受一定的轴向力和径向力。

GM5系列齿轮马达可以提供各种符合SAE和国家标准的法兰、轴伸、进出油口连接型式。

GM5系列齿轮马达广泛适用于汽车、拖拉机、工程机械及其他机械液压系统。

High pressure gear motor series GM5 is three section structure, mainly composed of front and rear cover, body, gear, Du bearing in front and rear cover, pressure plate in rear cover realize axial pressure compensation and radial pressure balance, which largely improves the performance of the motor.

Series GM5 have four Structure styles, single or double rotation motors without front bearing and single or double rotation motors with front bearing. Gear motor with front bearing is recommended for application where radial shaft loads are present.

GM5 May provide various kind of mounting flanges shaft ends, inlet and outlet connection styles according with SAE and chinese standards.

GM5 is broadly applied in the hydraulic systems of auto mobile, tractors, construct machinery and other machines.

二、型号说明 Model instruction

GM 5- * * - * * (*)** * -20 - *

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

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| <p>①、齿轮马达</p> <p>②、结构代号</p> <p>③、公称排量：(ml/r)
5、6、8、10、12、16、20、25</p> <p>④、安装法兰型式
A: 菱型法兰，止口 ϕ 82.55(符合SAE 标准)
1: 菱型法兰，止口 ϕ 80</p> <p>⑤、传动轴支承：
无：不带前轴承
F：带前轴承</p> <p>⑥、轴伸型式
13: 平键圆柱轴伸 ϕ 19.05
15: SAE渐开线花键轴伸DP16/32 9齿
E13: 平键圆柱轴伸 ϕ 18
H15: 渐开线花键轴伸EXT12Z \times 1.5m \times 30p \times 5d GB3478.1-83
S16: 半圆键圆锥轴伸1:5Z4
S17: 平键圆锥轴伸1:10Z4</p> <p>⑦、进出油口连接型式
F: 法兰连接
S: 公制螺纹连接
R: 管螺纹连接
R1: 管螺纹连接 (用于双旋向油口 R3/4)</p> <p>⑧、设计编号</p> <p>⑨、旋向(从轴端看)
L: 左旋(逆时针)
R: 右旋(顺时针)
无: 双旋向</p> | <p>①、gear motor</p> <p>②、frame size</p> <p>③、nominal displacement</p> <p>④、mounting flange style
A: Rhombic, spigot ϕ 82.55(standard SAE)
1: Rhombic, spigot ϕ 80</p> <p>⑤、transmission shaft bearing
none: without front bearing
F: with front bearing</p> <p>⑥、shaft end
13: straight keyed shaft ϕ 19.05
15: SAE involute spline DP 16/32 9-teeth
E13: straight keyed shaft ϕ 18
H15: involute splined shaft EXT12Z \times 1.5m \times 30p \times 5d GB3478.1-83
S16: semicircular splined cone 1:5Z4
S17: straight keyed splined cone 1:10Z4</p> <p>⑦、outlet and inlet connection style
F: flange connection
S: Metric thread
R: Pipe thread
R1: pipe thread (for double direction, port R3/4)</p> <p>⑧、design number</p> <p>⑨、direction of rotation (looking onto from shaft end)
L: counter clockwise
R: clockwise
None: double direction</p> |
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