

ROLLER CLUTCHES



FOR 4 mm TO 35 mm HARDENED SHAFTS
UNIDIRECTIONAL DRIVE

PHONE: 516.328.3300 • FAX: 516.326.8827 • WWW.SDP-SI.COM

> MATERIAL:

- Roller Cup** - Case-Hardened Steel
- Needle Bearing** - 52100 Hardened Chrome Steel
- Springs** - Stainless Steel
- Cage** - Nylon 66 (or Equivalent)

> FEATURES:

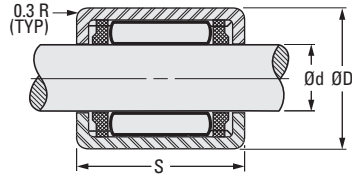
- Ideal for indexing, backstopping or overrunning operations.
- Free rolling one way, drives in opposite direction.
- Lightweight, low profile.
- High indexing frequency, up to 4CPS.
- Operating temperature, grease +10°C to +70°C.
- Minimum backlash.

> SHAFT REQUIREMENTS:

Shaft surface hardness must be HRC 58 min.

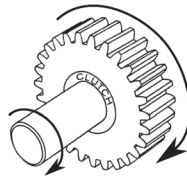
> HOUSING RECOMMENDATION:

Recommended tolerances for housing bore according to N7 for steel, R7 for aluminum.

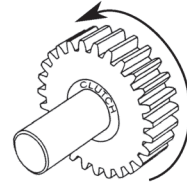


What It Does...

Transmits torque load in one direction.
Overruns freely in opposite direction.
Either shaft or housing can be driving member.



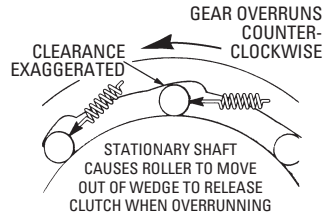
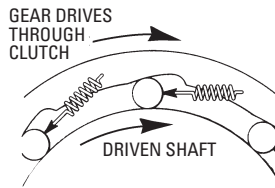
GEAR DRIVES
SHAFT CLOCKWISE



GEAR OVERRUNS
SHAFT COUNTERCLOCKWISE

How It Works...

Rollers wedge between shaft and outer race. Positive wedging forces prevent slipping. Springs position rollers for instantaneous lockup.



METRIC COMPONENT

| Catalog Number | d Shaft Dia. h6 | D Dia. | S Face Width 0 -0.2 | Max. Torque N • m | Rotating Overrun Speed Max. rpm | |
|----------------|--------------------------|-----------|------------------------------|-------------------------|---------------------------------------|---------|
| | | | | | Shaft | Housing |
| S99NH3MURC0406 | 4 | 8 | 6 | 0.34 | 34000 | 8000 |
| S99NH3MURC0612 | 6 | 10 | 12 | 1.76 | 23000 | 13000 |
| S99NH3MURC0812 | 8 | 12 | | 3.15 | 17000 | 12000 |
| S99NH3MURC1012 | 10 | 14 | | 5.3 | 14000 | 11000 |
| S99NH3MURC1216 | 12 | 18 | 16 | 12.2 | 11000 | 8000 |
| S99NH3MURC1416 | 14 | 20 | | 17.3 | 9500 | 8000 |
| S99NH3MURC1616 | 16 | 22 | | 20.5 | 8500 | 7500 |
| S99NH3MURC1816 | 18 | 24 | 20 | 24.1 | 7500 | 7500 |
| S99NH3MURC2016 | 20 | 26 | | 28.5 | 7000 | 6500 |
| S99NH3MURC2520 | 25 | 32 | | 66 | 5500 | 5500 |
| S99NH3MURC3020 | 30 | 37 | 20 | 90 | 4500 | 4500 |
| S99NH3MURC3520 | 35 | 42 | | 121 | 3900 | 3900 |

