

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:

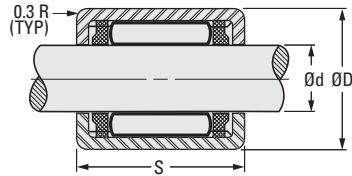
- Ideal for indexing, backstopping or overrunning operations.
- Free rolling one way, drives in opposite direction.
- Lightweight, low profile.
- High indexing frequency, up to 4CPS.
- Operating temperature, grease +10°C to +70°C.
- Minimum backlash.

> SHAFT REQUIREMENTS:

Shaft surface hardness must be HRC 58 min.

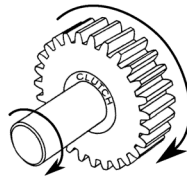
> HOUSING RECOMMENDATION:

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

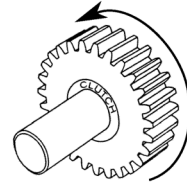


What It Does...

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



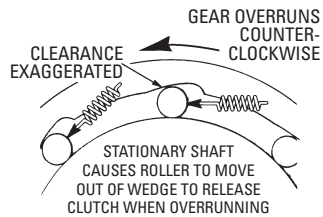
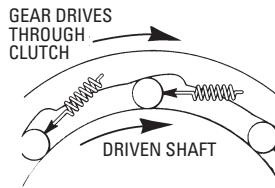
GEAR DRIVES
SHAFT CLOCKWISE



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		12.2	11000	8000
S99NH3MURC1416	14	20	16	17.3	9500	8000
S99NH3MURC1616	16	22		20.5	8500	7500
S99NH3MURC1816	18	24		24.1	7500	7500
S99NH3MURC2016	20	26		28.5	7000	6500
S99NH3MURC2520	25	32	20	66	5500	5500
S99NH3MURC3020	30	37		90	4500	4500
S99NH3MURC3520	35	42		121	3900	3900