



Model 20HP-10S

● Standard Model Nos.

Bushingmount type:

- 20HP-5S (5-turn)
- 20HP-10S (10-turn)

Servomount type:

- 20HPS-5S (5-turn)
- 20HPS-10S (10-turn)

● Standard Dimensions

■ Bushingmount type

Model No.	L
20HP-5S	18
20HP-10S	25.5

Note: 1 pc. inner teeth washer and 2 pcs. hex nuts are attached.

■ Servomount type

Model No.	L
20HPS-5S	24.5
20HPS-10S	32

● General Specifications

Standard Resistance

Range: 100Ω to 50kΩ (5-turn)
100Ω to 100kΩ (10-turn)

Max. Practical

Resistance Value: 100kΩ (5-turn)
150kΩ (10-turn)

Total Resistance

Tolerance: Standard Class ±3% (H)
Precision Class ±1% (F)

Independent Linearity

Tolerance:

	5-turn	10-turn
Standard Class	±0.3%	±0.2%
Precision Class	±0.2%	±0.1%

(Within 5kΩ) (±0.25%) (±0.15%)

Power Rating:

1.0W (5-turn)
2.0W (10-turn)

Noise:

Within 100Ω E.N.R.

Electrical Travel:

360° × n ±5° (n: No. of turns)

Mechanical Travel:

360° × n +10°₀ (n: No. of turns)

Insulation Resistance:

Over 100MΩ at 1,000V.D.C.

Dielectric Strength:

1 minute at 1,000V.A.C.

Starting Torque:

Within 5mN·m (50gf·cm)
(Bushingmount type)
Within 3mN·m (30gf·cm)
(Servomount type)

Stopper Strength:

Approx. 0.9N·m (9kgf·cm)
(Bushingmount type)
Approx. 0.6N·m (6kgf·cm)
(Servomount type)

Max. Working Voltage:

900V

Resist. Temperature

Coefficient of Wire:

±20p.p.m./°C

Mass:

Approx. 25g (5-turn)
Approx. 30g (10-turn)

● Standard Resistance Values ■ No. of Wire Turns ■ Resistance Wire Used

Resist. Value (Ω)	100	200	500	1k	2k	5k	10k	20k	50k	100k
20HP-5S	1,100	1,500	2,000	2,500	2,400	3,200	3,900	4,800	5,500	※6,500
20HP-10S	1,800	2,200	3,200	4,000	5,000	5,000	6,400	7,800	10,000	11,000
Resist. Wire Used	Cu-Ni System					Ni-Cr System				

Note: Mark ※ shows values at special higher practical resistance.

● Special Specifications Available

3-turn type (S20HP-3S), Lower resistance values (10Ω, 20Ω, 50Ω), Extra taps (Available up to 1 tap), Multi-ganged (Available up to 2 gangs), Rear shaft (2mm dia. and 10mm length), Inch dimensional shaft dia. (φ 6.35mm) • Bushing with inch dimensions, Special machining on the shaft, Simple sealed housing (except servomount type), Slipping-clutch incorporated type (S20HP-10S-1782, 20mN·m~60mN·m), With a limit-switch adaptor.