

MP-Series Magnetic Particle Brakes

NEW



Smooth, repeatable, high quality performance with no dust!
Ideal for clean room environments, the MP-Series provides the
precise, smooth torque control you require from full
roll to core, maximizing your process capabilities.
Sizes available to 8851 in-lb/1000 Nm of torque.

EST. 1947

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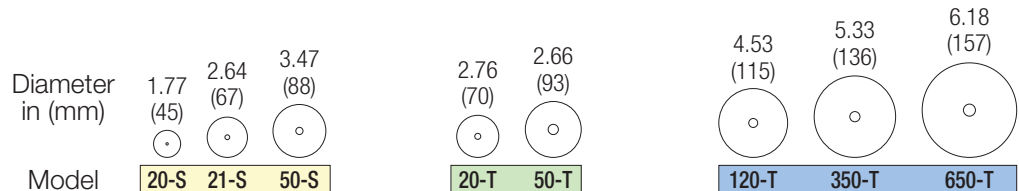
Better Web Control®

Smooth, Reliable,

- ▶ Multiple sizes / broad torque ranges
- ▶ Passive and forced air cooling options
- ▶ Easy installation & long maintenance free service life
- ▶ Rapid response to tension changes
- ▶ Multiple mounting options

*Full specification datasheets available for all individual models.
Contact Montalvo 1-800-226-8710 or visit www.montalvo.com.

Type N Brake Size Comparison

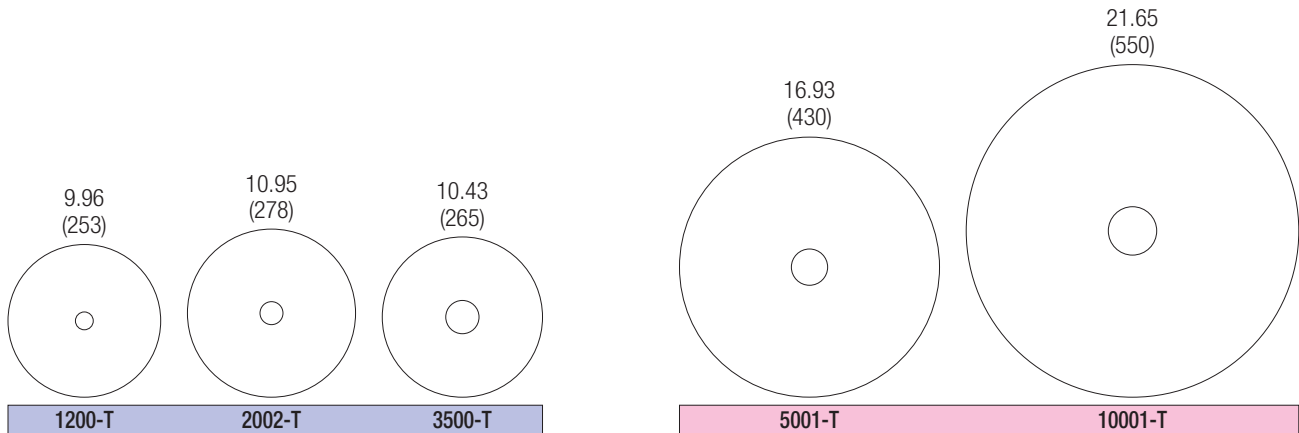


Model*	Shaft Type (Ømm)	Heat Dissipation - HP (watts)			
		Type N Brake	Type R Brake	Type N Brake w/ Fan Kit	Type R Brake w/ Blower Kit
MP-B-2-S	Shafted (4)g6	0.02 (15)	0.03 (25)	—	—
MP-B-21-S	Shafted (8)g6	0.05 (35)	0.08 (60)	—	—
MP-B-50-S	Shafted (12)g6	0.07 (50)	0.11 (85)	—	—
MP-B-20-T	Thru-Bore (10)H8	0.05 (40)	0.08 (60)	—	—
MP-B-50-T	Thru-Bore (17)H8	0.09 (70)	0.13 (100)	—	—
MP-B-120-T	Thru-Bore (15)H7	0.10 (75)	0.20 (150)	—	0.87 (650)
MP-B-350-T	Thru-Bore (17)H7	0.13 (100)	0.28 (210)	0.67 (500)	1.88 (1400)
MP-B-650-T	Thru-Bore (20)H7	0.20 (150)	0.47 (350)	0.94 (700)	2.41 (1800)
MP-B-1200-T	Thru-Bore (28)H7	0.40 (300)	0.74 (550)	1.88 (1400)	2.68 (2000)
MP-B-2002-T	Thru-Bore (38)H8	0.54 (400)	0.94 (700)	2.41 (1800)	2.68 (2000)
MP-B-3500-T	Thru-Bore (55)H7	0.63 (470)	1.27 (950)	—	4.43 (3300)
MP-B-5001-T	Thru-Bore (60)H8	1.34 (1000)	2.41 (1800)	—	6.03 (4500)
MP-B-10001-T	Thru-Bore (80)H8	2.28 (1700)	4.02 (3000)	—	9.39 (7000)

All Brakes:
Rated Operating Temperature 212°F (100°C)
Max. Temperature 248°F (120°C)



Consistent Torque



Torque Range in-lb (Nm)		Rated Current Amps	Rotor Inertia in-lb ² (kg-m ²)	Rotation ** (RPM)	Weight lb (N)			
Max.	Min.**				Type N	Type R	N + Fan Kit	R + Blower Kit
1.8 (0.20)	0.07 (0.007)	0.05	0.0027 (0.8x10 ⁻⁶)	3000 / 40	0.48 (0.22)	0.73 (0.33)	—	—
18 (2)	0.4 (0.04)	0.45	0.1196 (35x10 ⁻⁶)	3000 / 40	2.09 (0.91)	2.75 (1.25)	—	—
44 (5)	0.9 (0.10)	0.52	0.1524 (44.6x10 ⁻⁶)	3000 / 40	3.41 (1.55)	4.29 (1.95)	—	—
18 (2)	0.4 (0.04)	0.40	0.0547 (16x10 ⁻⁶)	3000 / 40	1.76 (0.80)	1.98 (0.90)	—	—
44 (5)	1.8 (0.20)	0.50	0.3383 (99x10 ⁻⁶)	3000 / 40	3.74 (1.70)	4.40 (2.00)	—	—
106 (12)	2.4 (0.27)	0.55	0.8543 (0.25x10 ⁻³)	3000 / 40	5.72 (2.60)	9.68 (4.40)	—	15.39 (7.00)
310 (35)	3.0 (0.33)	1.00	2.6996 (0.79x10 ⁻³)	3000 / 40	9.90 (4.50)	14.7 (6.70)	12.8 (5.80)	20.6 (9.38)
575 (65)	5.6 (0.63)	1.00	6.8343 (2x10 ⁻³)	3000 / 40	15.8 (7.20)	24.0 (11.0)	18.9 (8.60)	30.2 (13.82)
1062 (120)	10.7 (1.20)	1.10	90.555 (26.5x10 ⁻³)	2000 / 40	37.8 (17.2)	55.0 (25.0)	61.6 (28.0)	67.1 (30.5)
1770 (200)	17.7 (2.0)	1.55	120.284 (35.2x10 ⁻³)	2000 / 40	52.8 (24.0)	66.0 (30.0)	61.6 (10.5)	78.1 (35.5)
3098 (350)	31.0 (3.5)	1.50	304.47 (89x10 ⁻³)	2000 / 40	83.6 (38.0)	117 (53.0)	—	131 (59.5)
4426 (500)	44.3 (5.0)	1.70	1131.426 (331x10 ⁻³)	1500 / 60	161 (73.0)	205 (93.0)	—	222 (101.0)
8851 (1000)	89.6 (10)	1.70	2764.834 (809x10 ⁻³)	1000 / 60	297 (135)	352 (160)	—	374 (170)

** Except remnant rotor versions. Contact Montalvo for further details.

NEW

Montalvo MP Magnetic Particle Clutches

We offer a popular range of mag particle clutches for rewind applications. Maximize the quality of your end product.



NEW

24V

Montalvo VC2 Voltage Converter

The VC2 is a universal current regulated power supply based on microcontroller technology. It is compatible with our new MP-Series Magnetic Particle Brakes and Clutches.



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Better Web Control®

Maximize Your Process Capabilities from Start to Finish

Fully capitalize on your Montalvo Magnetic Particle Brake with a tension controller, load cells, safety chucks, sensors, or more.

We are your total tension control supplier from unwind to rewind.



**Improve End Product Quality
Increase Productivity
Reduce Waste
Decrease Downtime
Achieve More!**

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