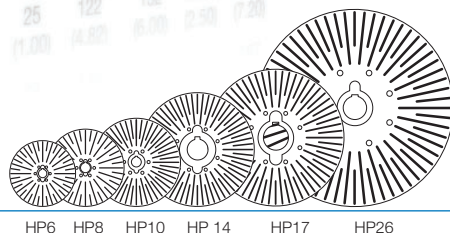
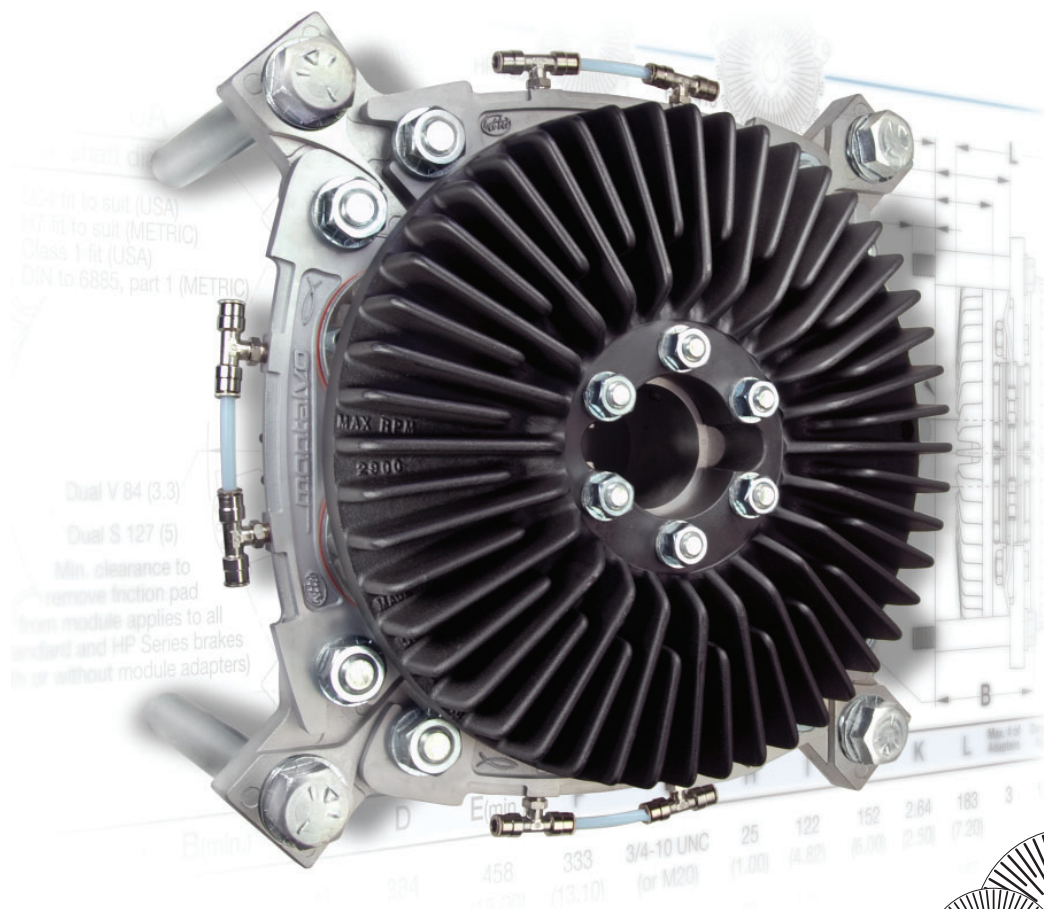


HP-Series

High Performance Dual Disc Brakes

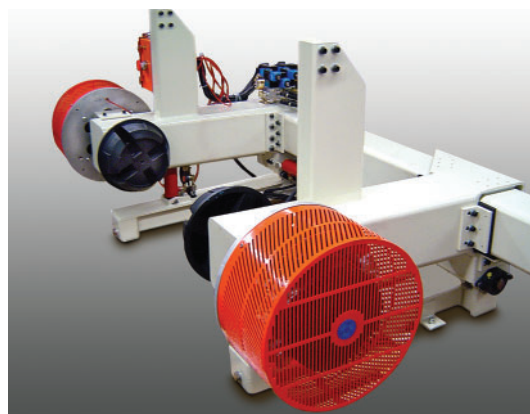


Montalvo HP-Series High Performance Dual Disc Brakes

Montalvo HP-Series pneumatic tension brakes are the result of years of innovative design, engineering excellence and renowned customer service in the converting industry. The HP is the benchmark for performance in all applications from board to tissue.

Features

- ▶ Choose from two friction pad designs - new quick-change or Montalvo "industry" STANDARD
- ▶ High performance fin design provides superior thermal capacity and heat dissipation
- ▶ Choose from a wide torque range of **0.3** to over **5776** Nm
- ▶ Custom milled for shafts from **35** to **115** mm
- ▶ Easily installed in new equipment or as an application upgrade
- ▶ Options: mounting plates, safety covers and I/P converters



A pair of HP 1008s under cover on an unwind stand.

HP-Series

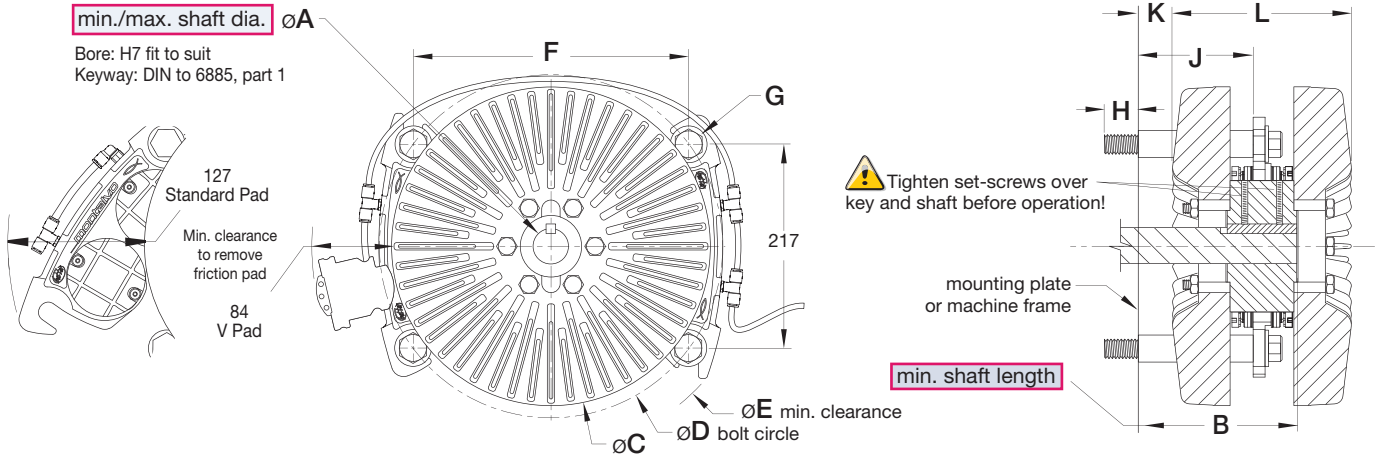
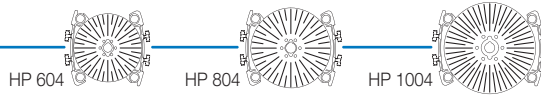
High Performance Dual Disc Brakes

HP (without adapters)

601 - 604

801 - 804

1001 - 1004 (shown)



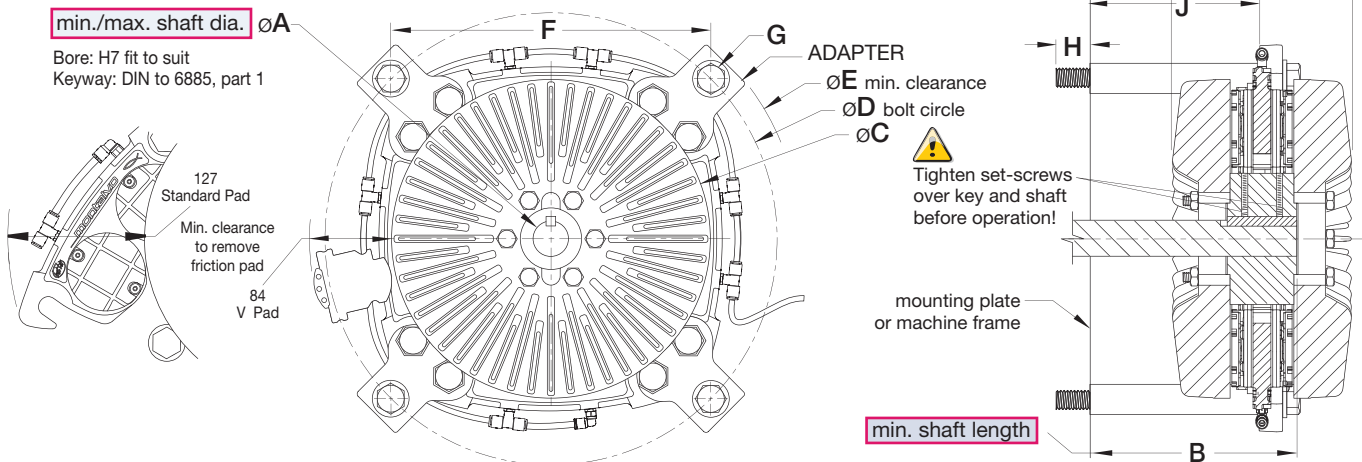
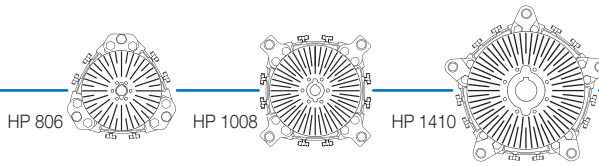
| Size | A(min.) | A(max.) | B(min.) | C | D | E(min.) | F | G | H | J | K | L |
|-------|---------|---------|---------|-----|-----|---------|-----|---------|----|-----|----|-----|
| HP 6 | 35 | 45 | 173 | 254 | 284 | 382 | 201 | M20x2.5 | 32 | 127 | 54 | 166 |
| HP 8 | 35 | 50 | 198 | 298 | 334 | 432 | 254 | M20x2.5 | 26 | 152 | 70 | 183 |
| HP 10 | 40 | 65 | 224 | 340 | 371 | 458 | 300 | M20x2.5 | 32 | 178 | 93 | 187 |

HP (with adapters)

805-806

1005-1008 (shown)

1401-1410



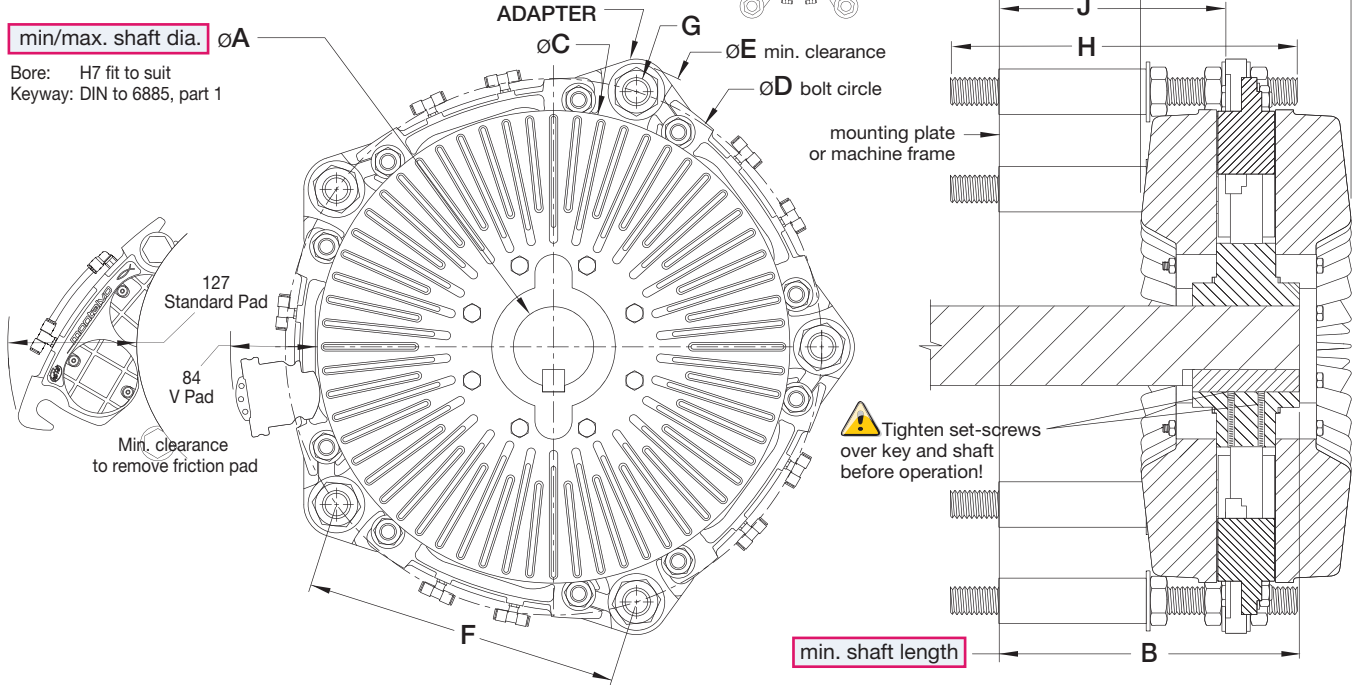
| Size | A(min.) | A(max.) | B(min.) | C | D | E(min.) | F | G | H | J | K | L | Max. # of Adapters | Degrees Apart |
|-------|---------|---------|---------|-----|-----|---------|-----|---------|----|-----|-----|-----|--------------------|---------------|
| HP 8 | 35 | 50 | 198 | 298 | 384 | 458 | 333 | M20x2.5 | 25 | 152 | 64 | 183 | 3 | 120 |
| HP 10 | 40 | 65 | 224 | 340 | 482 | 534 | 341 | M20x2.5 | 33 | 178 | 87 | 187 | 4 | 90 |
| HP 14 | 50 | 100 | 253 | 438 | 572 | 636 | 336 | M20x2.5 | 35 | 213 | 114 | 206 | 5 | 72 |

HP (with adapters)

1701 - 1710 (shown)
2601 - 2616

HP 1710

HP 2616

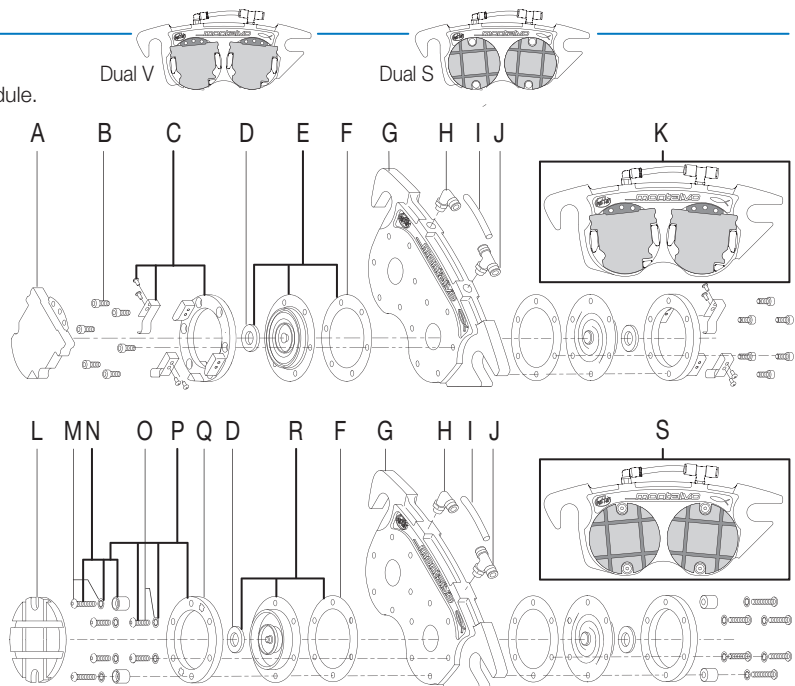


| Size | A(min.) | A(max.) | B(min.) | C | D | E(min.) | F | G | H | J | K | L | Max. # of Adapters | Degrees Apart |
|-------|---------|---------|---------|-----|-------|---------|-----|---------|-----|-----|-----|-----|--------------------|---------------|
| HP 17 | 65 | 115 | 317 | 530 | 587.2 | 673 | 345 | M30x3.5 | 394 | 254 | 140 | 233 | 5 | 72 |
| HP 26 | 95 | 115 | 419 | 762 | 914 | 1016 | 350 | M36x4.0 | 508 | 356 | 203 | 311 | 8 | 45 |

Dual V and Dual S Friction Modules

For new brake orders choose either style to fit your needs.
For existing brakes, make sure to order parts for correct module.

| Description | Ordering Part # |
|---|----------------------|
| A V Friction pad (many types)..... | call / visit website |
| B SHCS M5x12DIN912 | 18000489 |
| C V Torque Collar Kit..... | 27000018 |
| D Piston Magnet | 10000266 |
| E V Piston Kit (magnet, piston, gasket) | 27000430 |
| F Piston Gasket..... | 10000270 |
| G Dual Friction Module Casting..... | 10001772 |
| H Elbow Fitting 6mm..... | 18000669 |
| I Teflon Tubing 6mm | 20000323 |
| J Branch Tee Fitting 6mm..... | 18000670 |
| K Dual V Complete Module (w/friction pads) | 10001827 |
| L Standard Friction pad (many types) | call / visit website |
| M Torque Post Screw Kit (PPHMS M5x0.8x25 & wshr) | 10002014 |
| N Torque Post (w/#10002014 screw & washer)..... | 10002009 |
| O Torque Collar Screw Kit (BHSS M5x0.8x18 & wshr) | 10002015 |
| P Torque Collar Kit (w/torque posts & screws)..... | 10001830 |
| Q Torque Collar..... | 10000279 |
| R Standard Piston Kit (magnet, piston, gasket) | 10002048 |
| S Dual S Complete Module (w/friction pads) | 10001829 |



HP-Series

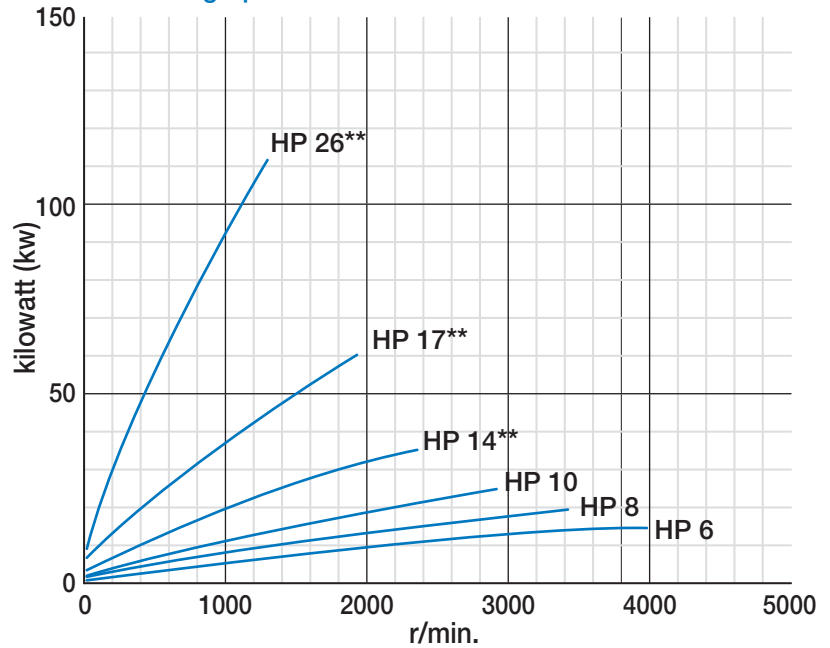
High Performance Dual Disc Brakes

Torque†

| | Max. - Min. (Nm) | | | | | |
|----------------|------------------|-----------------|-------------------------------|-----|-----|-----|
| | (Max. @ 5.2 bar) | | (Min. @ 0.07 bar x1 cylinder) | | | |
| | LOW Friction | MEDIUM Friction | HIGH Friction | | | |
| HP 600 | | | | | | |
| HP601 | 19 | 57 | 85 | | | |
| HP602 | 37 | 113 | 170 | 0.3 | 0.8 | 1.1 |
| HP603 | 57 | 170 | 254 | | | |
| HP604 | 75 | 226 | 339 | | | |
| HP 800 | | | | | | |
| HP801 | 26 | 78 | 117 | | | |
| HP802 | 52 | 156 | 234 | | | |
| HP803 | 78 | 234 | 351 | 0.3 | 1.0 | 1.6 |
| HP804 | 104 | 312 | 468 | | | |
| HP805 | 130 | 390 | 585 | | | |
| HP806 | 156 | 468 | 702 | | | |
| HP 1000 | | | | | | |
| HP1001 | 31 | 93 | 139 | | | |
| HP1002 | 62 | 185 | 278 | | | |
| HP1003 | 93 | 278 | 417 | | | |
| HP1004 | 123 | 371 | 556 | 0.4 | 1.2 | 1.9 |
| HP1005 | 154 | 463 | 685 | | | |
| HP1006 | 185 | 556 | 834 | | | |
| HP1007 | 216 | 649 | 973 | | | |
| HP1008 | 247 | 741 | 1112 | | | |
| HP 1400 | | | | | | |
| HP1401 | 43 | 130 | 195 | | | |
| HP1402 | 86 | 260 | 390 | | | |
| HP1403 | 130 | 390 | 585 | | | |
| HP1404 | 173 | 520 | 780 | | | |
| HP1405 | 216 | 650 | 975 | 0.6 | 1.7 | 2.6 |
| HP1406 | 260 | 780 | 1170 | | | |
| HP1407 | 303 | 910 | 1364 | | | |
| HP1408 | 346 | 1040 | 1559 | | | |
| HP1409 | 390 | 1170 | 1754 | | | |
| HP1410 | 433 | 1300 | 1949 | | | |
| HP 1700 | | | | | | |
| HP1701 | 52 | 157 | 236 | | | |
| HP1702 | 105 | 315 | 472 | | | |
| HP1703 | 157 | 472 | 709 | | | |
| HP1704 | 210 | 630 | 945 | | | |
| HP1705 | 262 | 788 | 1181 | 0.7 | 2.1 | 3.2 |
| HP1706 | 315 | 945 | 1418 | | | |
| HP1707 | 367 | 1102 | 1653 | | | |
| HP1708 | 424 | 1260 | 1890 | | | |
| HP1709 | 472 | 1418 | 2126 | | | |
| HP1710 | 525 | 1574 | 2362 | | | |
| HP 2600 | | | | | | |
| HP2601 | 80 | 241 | 361 | | | |
| HP2602 | 160 | 481 | 722 | | | |
| HP2603 | 241 | 722 | 1074 | | | |
| HP2604 | 321 | 963 | 1444 | | | |
| HP2605 | 401 | 1203 | 1805 | | | |
| HP2606 | 481 | 1444 | 2166 | | | |
| HP2607 | 562 | 1685 | 2527 | | | |
| HP2608 | 642 | 1926 | 2888 | 1.1 | 3.2 | 4.8 |
| HP2609 | 722 | 2166 | 3249 | | | |
| HP2610 | 802 | 2407 | 3610 | | | |
| HP2611 | 883 | 2648 | 3971 | | | |
| HP2612 | 963 | 2888 | 4332 | | | |
| HP2613 | 1043 | 3129 | 4693 | | | |
| HP2614 | 1123 | 3370 | 5054 | | | |
| HP2615 | 1203 | 3610 | 5415 | | | |
| HP2616 | 1284 | 3851 | 5776 | | | |

† Friction values are nominal. Rated torque may vary depending on operating temperature.

Effective Cooling Speed*



*Effective Cooling Speed (nECS)
The speed at which a brake will dissipate given kilowatts.

$$nECS = \frac{2 \times n \text{ min.} + n \text{ max.}}{3}$$

**Maximum Power Absorption (MPA) Rating

HP 14, 17 & 26 disc/hubs have the capacity to dissipate rated horsepower, however, excessive power absorption by the friction pads may result in higher pad wear. For optimum pad wear, do not exceed the MPA rating: MPA rating = 3.0 kw per cylinder (example: HP1403 = 3 x 3 hp = 9 kw MPA rating).

Testing

Brakes were mounted as recommended in *Installation Instructions*. No guard or cover was used. Addition of machine guarding, fan or blower cooling, differences in ambient conditions, location, mounting method, etc. will affect heat dissipation capacity of any air cooled brake. Careful consideration should be given to all conditions surrounding installation. Consult Montalvo for help in application sizing.

Conditions: Ambient temp. 13 -16°C
Cast Iron Bulk 177°C
Humidity 65 - 70%

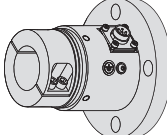

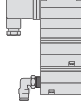

| Size | Max. r/min* (min ⁻¹) | Moment of Inertia (kgm ²) | Total Weight (kg) |
|-------|----------------------------------|---------------------------------------|-------------------|
| HP 6 | 4300 | 0.18 | 16 |
| HP 8 | 3400 | 0.46 | 28 |
| HP 10 | 2900 | 0.88 | 48 |
| HP 14 | 2300 | 3.00 | 83 |
| HP 17 | 1900 | 7.92 | 139 |
| HP 26 | 1300 | 45.1 | 384 |





* Do not use to calculate kilowatt.

Note:

Montalvo Brakes are called upon to operate within a wide speed range when used in converting applications They do not carry "nominal" ratings.

Related Montalvo Products

| | | | |
|---|---|---|--|
| <p>Load Cells</p>  <p>Measure web tension with precision strain gauge sensing.</p> | <p>Tension Controls</p>  <p>Process load cell/sensor input and regulate web tension with brake torque output.</p> | <p>I/P Converter</p>  <p>Convert electrical input from control to regulated air output to brake.</p> | <p>Range Expander</p>  <p>Connection to friction modules to produce multiple torque ranges.</p> |
|---|---|---|--|

 207-856-2501 / 800-226-8710
 +86-21-52188010
 +45 75 57 27 11
 +49 (0)511 760 691 41

The Montalvo Corporation

EST. 1947

montalvo

Better Web Control®

Tel: EU +45 75 57 27 11 / USA +1 207-856-2501

Fax: USA +1 207-856-2509

info.eu@montalvo.com www.montalvo.com

Technical details subject to change without notice. HP-GB-03 © Montalvo