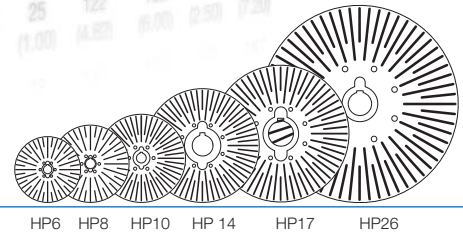
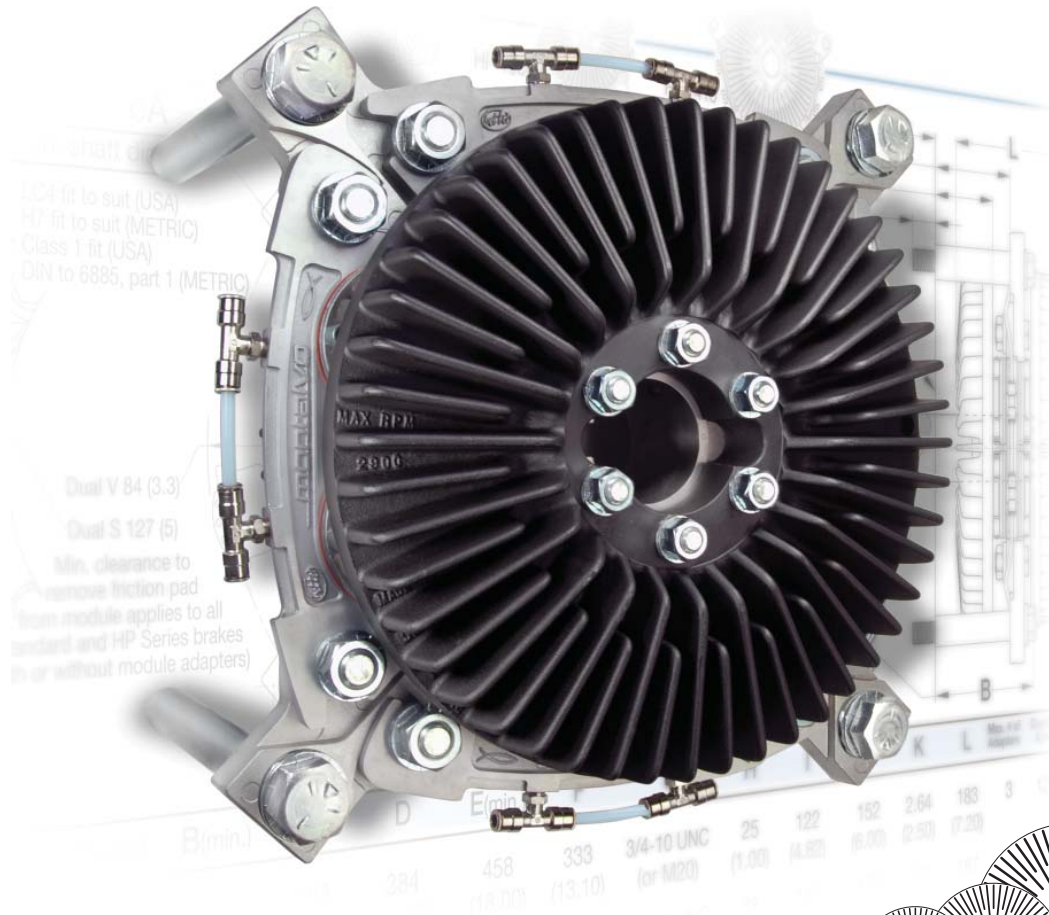


HP-Series

High Performance Dual Disc Brakes

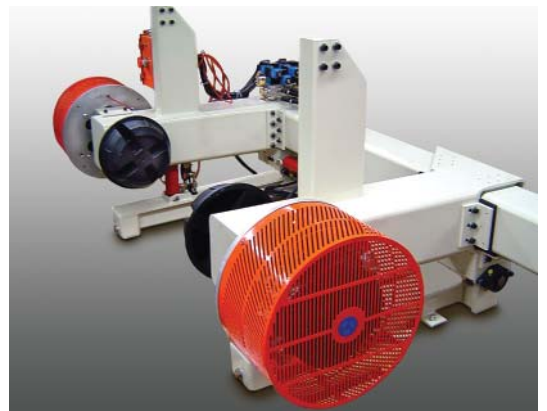


Montalvo HP-Series High Performance Dual Disc Brakes

Montalvo HP-Series pneumatic tension brakes are the result of years of innovative design, engineering excellence and renown 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

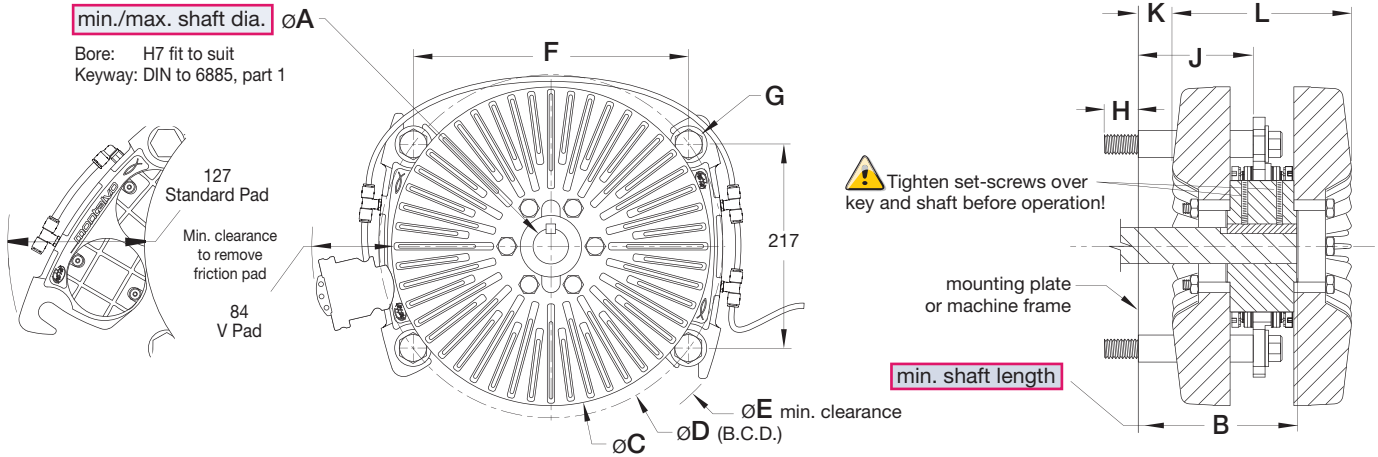
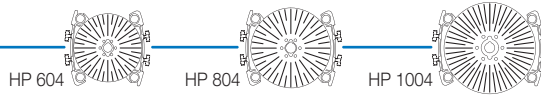
High Performance Dual Disc Brakes

HP (without adapters)

601 - 604

801 - 804

1001 - 1004 (shown)



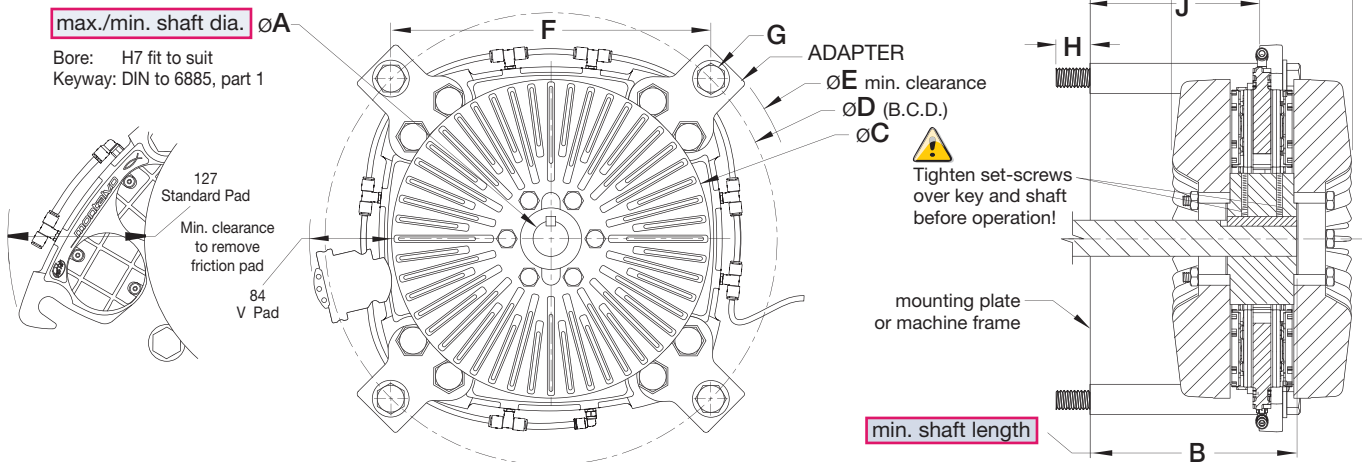
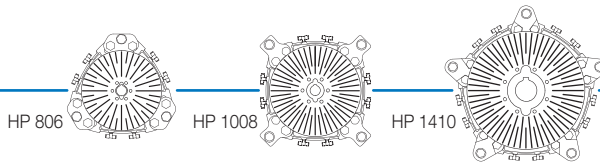
Size	A(min.)	A(max.)	B(min.)	C	D(B.C.D.)	E(min.)	F	G	H	J	K	L
HP 6	35	45	173	254	296	382	201	M20x2.5	32	127	54	166
HP 8	35	50	198	298	334	432	254	M20x2.5	26	152	70	183
HP 10	40	65	224	340	371	458	300	M20x2.5	32	178	93	187

HP (with adapters)

805-806

1005-1008 (shown)

1401-1410



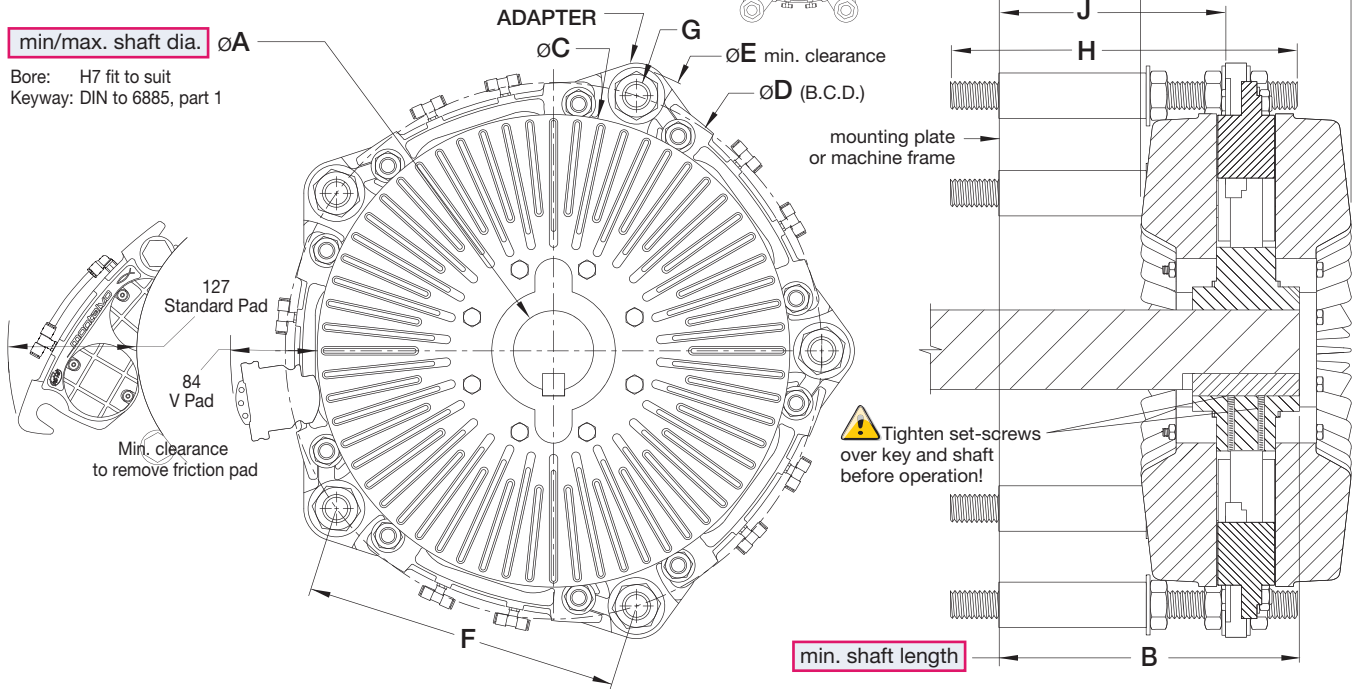
Size	A(min.)	A(max.)	B(min.)	C	D(B.C.D.)	E(min.)	F	G	H	J	K	L	Max. # of Adapters	Degrees Apart
HP 8	35	50	198	298	384	458	333	M20x2.5	25	152	64	183	3	120
HP 10	40	65	224	340	482	534	341	M20x2.5	33	178	87	187	4	90
HP 14	50	100	253	438	572	636	336	M20x2.5	35	213	114	206	5	72

HP (with adapters)

1701 - 1710 (shown)
2601 - 2616

HP 1710

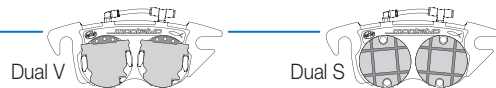
HP 2616



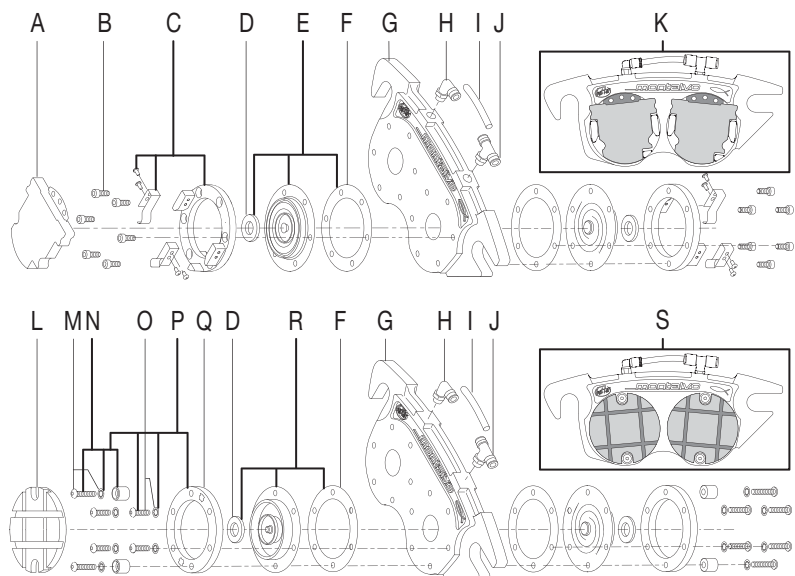
Size	A(min.)	A(max.)	B(min.)	C	D(B.C.D.)	E(min.)	F	G	H	J	K	L	Max. # of Adapters	Degrees Apart
HP 17	65	115	317	530	587.2	673	345	M30x3.5	394	254	140	233	5	72
HP 26	95	115	419	762	914	1016	350	M36x4.0	508	356	203	311	8	45

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

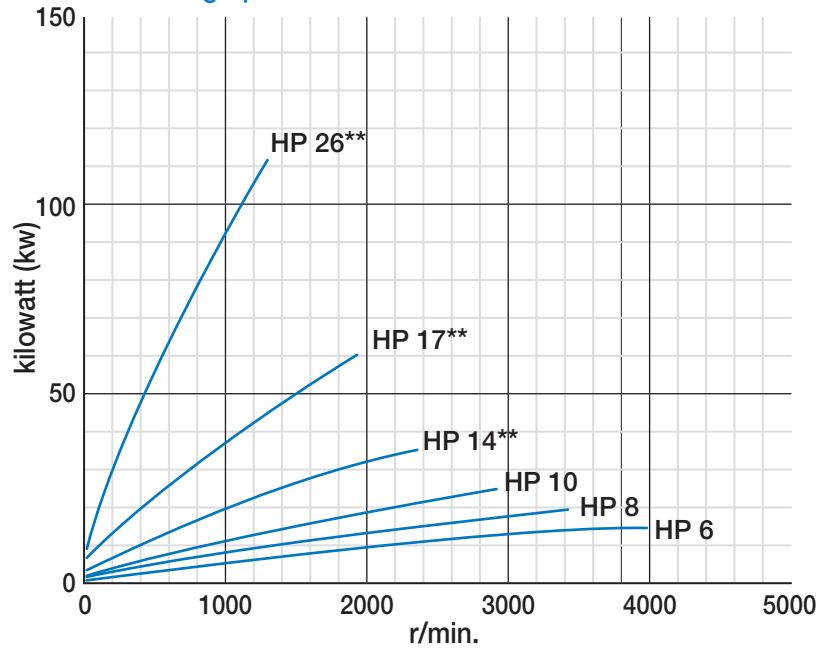
High Performance Dual Disc Brakes

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%

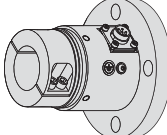

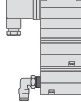

Size	Max. r/min* (min ⁻¹)	Moment of Inertia (kgm ²)	Total Weight (kg)
HP 6	4300	0.18	16
HP 8	3400	0.46	28
HP 10	2900	0.88	48
HP 14	2300	3.00	83
HP 17	1900	7.92	139
HP 26	1300	45.1	384





* 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>
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