



Disc Pac Clutches & Brakes (MDP)

Static Torque Ranges from 4 to 2,000 lbs. ft.

ADVANTAGES

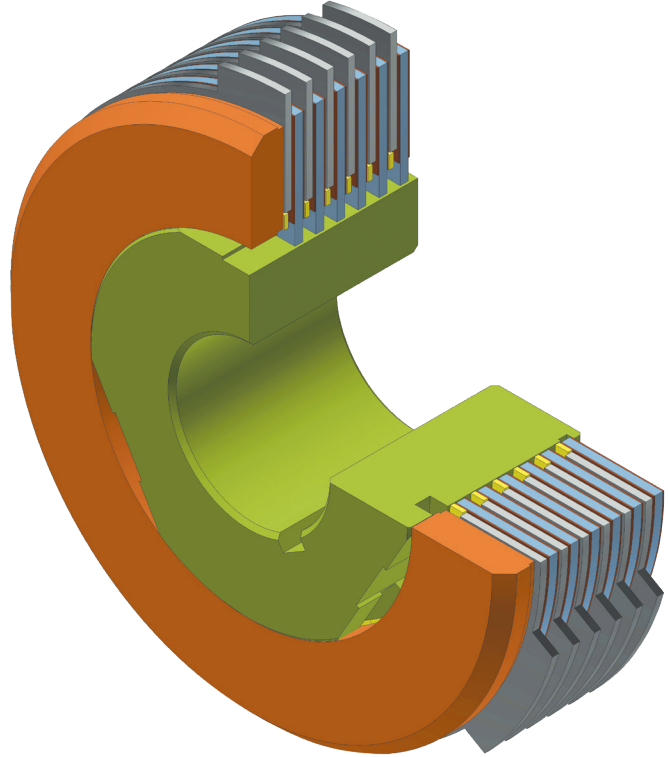
- Simplicity of design offers high versatility.
- Compact, self-contained.
- Completely assembled - no special tools required for installation or maintenance.
- Disc design and finish offers maximum durability and smooth engagement.

OPERATION

- Can run dry or in oil.
- Can be used with standard MAXITORQ® ring and flange cups.
- Patented separator springs prevent drag abrasion and heating when in neutral.

CUSTOMIZATION

- Available in eight sizes from 2" to 8" in diameter; ¼ to 15 hp at 100 rpm.
- Static torque ranges from 4 to 2,000 lbs. ft.
- Custom designs are available.



MDP model MAXITORQ® Disc Pacs are manufactured to deliver high-performance results in air, hydraulic, electric or manually-operated brakes and clutches. Designed for flexibility in any application, our disc pacs allow you to assemble a brake or clutch to your own specifications. These compact, self-contained units feature patented separator springs that prevent drag abrasion and consequent heating when in neutral, as well as free-floating discs that provide a positive neutral (1% of rated torque) with minimum of torque transmission and no ratcheting.

Our versatile disc pacs can run dry or in oil, and can be used as a multiple disc clutch or brake, an overload release clutch or brake, or a torque-limiting device.



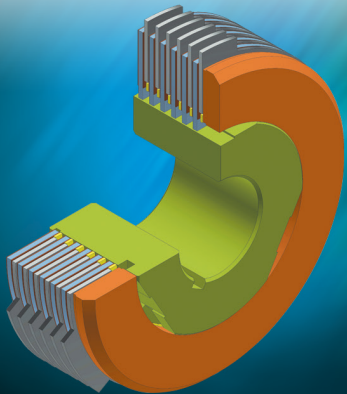
 **CARLYLE JOHNSON**

www.cjmco.com

291 Boston Turnpike, Bolton, CT 06043
Main Phone: 860-643-1531 • Fax: 860-646-2645

Optimum Clutch And Brake Performance

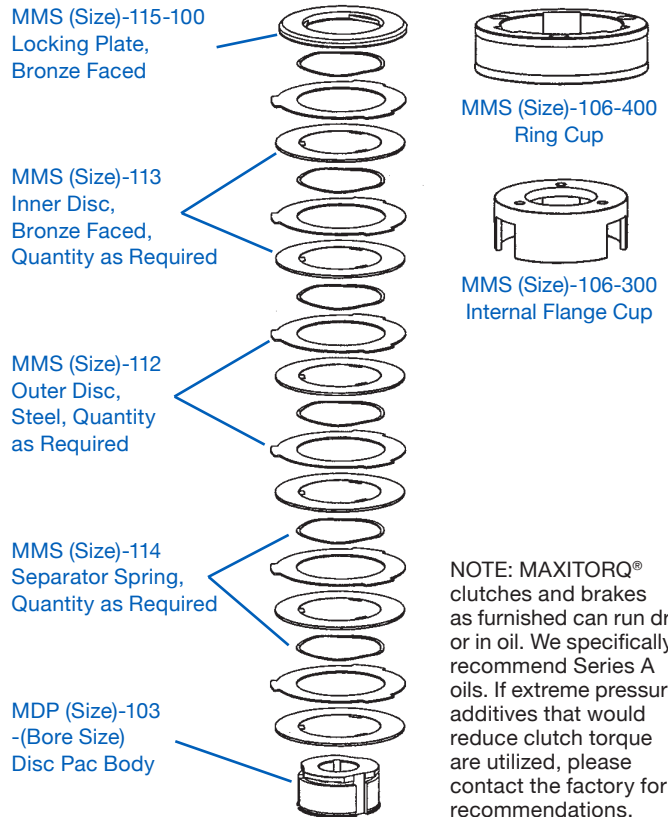
- MAXITORQ® disc separator springs assure a true “floating drag-free neutral” which prevents drag abrasion and consequent heating.
- “Free-floating” discs provide a positive neutral (1% of rated torque) with minimum of torque transmission and no ratcheting.
- Disc design and finish ensure maximum wearability and smooth engagement.
- Compact, self-contained and keys to your shaft.
- All MAXITORQ® Disc Pacs are shipped pre-assembled. No special tools are required for installation or maintenance.
- Lugs range from 3 to 12 depending upon torque rating (see Torque/Range charts).
- Economical MAXITORQ® standard ring cups and flange cups are available, if desired.
- Can run dry or in oil. For wet applications, operation with Series A transmission fluid is recommended.
- Custom designs available.



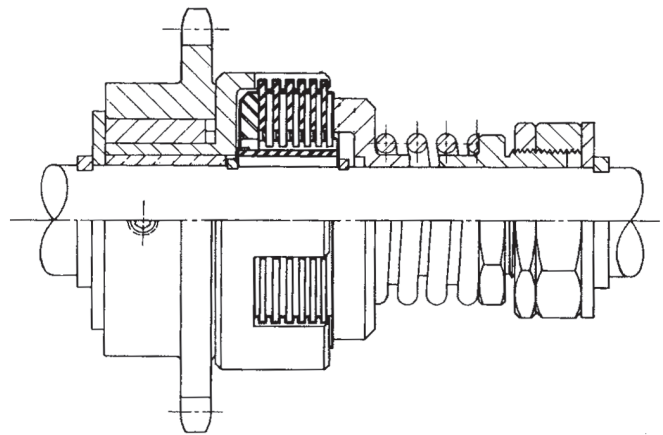
Replacement Parts

Inherent in the MAXITORQ® design is the ability to rebuild an assembly again and again as parts inevitably wear. When ordering, please specify part number, clutch size, and serial number.

Mechanical Multiple Disc Replacement Parts



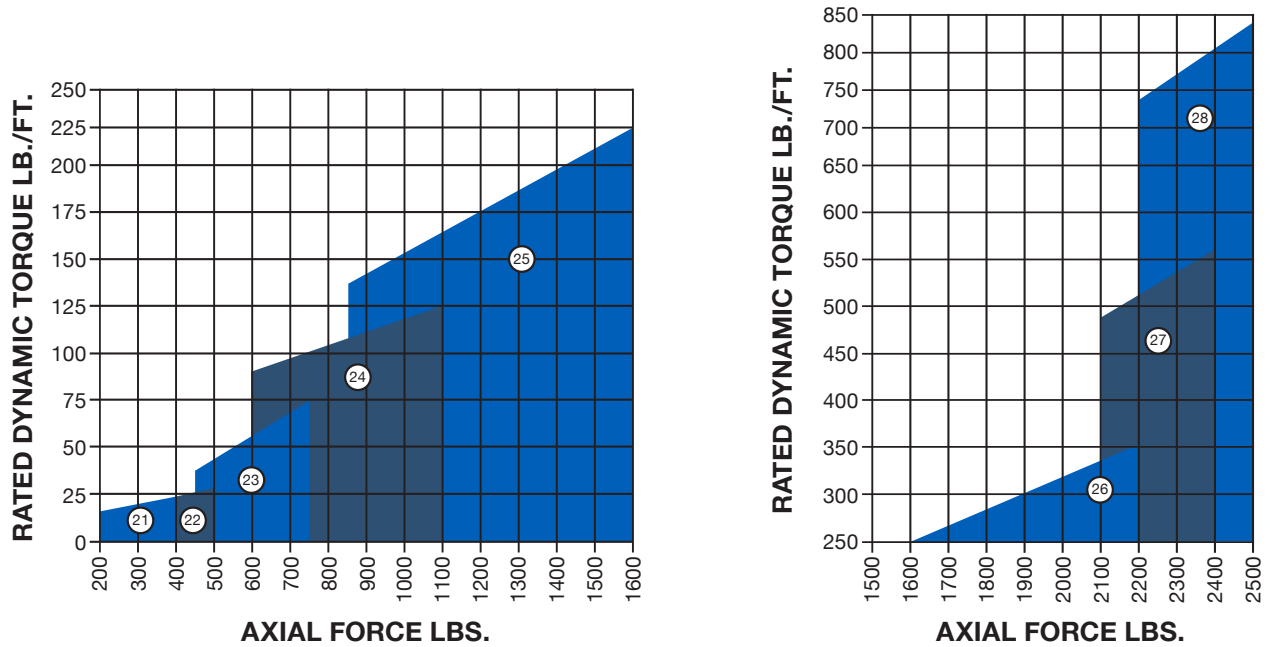
Typical Disc Pac Application



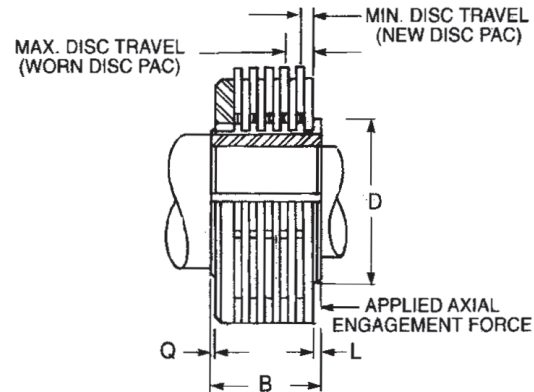
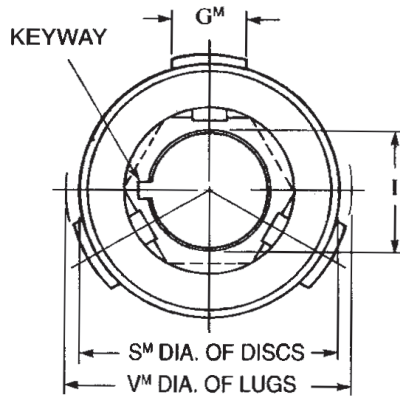
MAXITORQ® Disc Pac applied as a spring-loaded, adjustable, torque-limiting device.

Torque/Range Charts for Disc Pac Size Selection

These charts can be used as an aid in determining the disc pac size for your clutch or brake application. For precise application information, contact the engineering department at Carlyle Johnson.



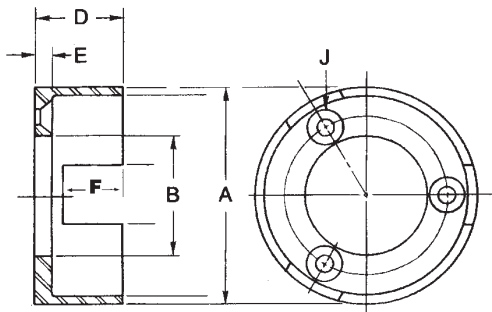
Specifications of MAXITORQ® Disc Pac Clutches & Brakes



Disc Pac Number	HP @ 100 rpm	Dynamic Torque lbs. ft.	Static Torque lbs. ft.	Max. Required Axial Force lbs.	Min. Disc Travel (New Disc Pac)	Max. Disc Travel (Worn Disc Pac)	L Std. Body Bores Disc. +.001 - .000		Keyway	Driving Lugs G ^M No.	Length B +.003	D	L	Q	S ^M	O.D. V ^M	
MDP 21	1/4	13	26	225	.084	.220	3/4	7/8	3/16 x 3/32	3	.615	.950	1 5/16	1/16	1/64	1 63/64	2 3/16
MDP 22	1/2	27	54	470	.088	.239	1	1 1/8	3/16 x 3/32	3	.740	1.072	1 5/8	1/16	1/64	2 31/64	2 3/4
MDP 23	1	53	106	550	.091	.243	1 1/4	1 3/8	1/4 x 1/8	3	.990	1.234	2 1/8	1/16	1/64	3 15/64	3 9/16
MDP 24	1 3/4	92	184	800	.091	.243	1 1/2	1 5/8	5/16 x 5/32	3	.990	1.234	2 13/32	1/16	1/64	3 47/64	4 1/16
MDP 25	3	158	316	1,150	.091	.273	1 3/4	1 7/8	3/8 x 3/16	8	.740	1.505	2 3/4	1/16	1/64	4 31/64	4 7/8
MDP 26	5	263	526	1,650	.104	.259	2	2 1/4	7/16 x 7/32	12	.615	1.651	3 5/16	1/16	1/64	5 31/64	5 7/8
MDP 27	10	525	1,050	2,260	.161	.485	2 1/2	2 3/4	9/16 x 9/32	12	.740	2.077	4 3/4	1/16	1/32	6 63/64	7 1/2
MDP 28	15	788	1,576	2,350	.127	.509	2 3/4	3	9/16 x 9/32	12	.740	2.297	5 11/16	1/16	1/32	7 63/64	8 1/2

Internal Flange Type Driving Cup

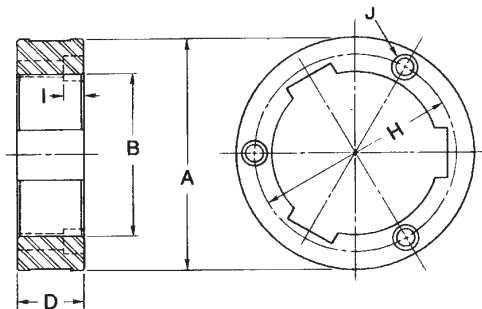
Internal flange driving cups are lower in inertia and smaller in outside diameter than ring type driving cups.



Drive Cup Number	A	B	D	E	F	J*	# of Mtg Holes	# of Slots
MMS-0021-106-300	2 3/16	1.033 1.031	1 1/32	3/16	23/32	8/32	3	3
MMS-0022-106-300	2 3/4	1.439 1.438	1 5/32	3/16	13/16	10/32	3	3
MMS-0023-106-300	3 9/16	1.940 1.938	1 13/32	1/4	31/32	1/4-20	3	3
MMS-0024-106-300	4 1/16	2.065 2.063	1 7/16	9/32	31/32	5/16-18	3	3
MMS-0025-106-300	4 7/8	2.565 2.563	1 23/32	5/16	1 5/32	5/16-18	5	8
MMS-0026-106-300	5 7/8	3.627 3.625	1 29/32	5/16	1 3/8	5/16-18	5	12
MMS-0027-106-300	7 1/2	4.753 4.750	2 5/16	5/16	1 21/32	7/16-14	5	12
MMS-0028-106-300	8 1/2	5.753 5.750	2 1/2	5/16	1 7/8	7/16-14	6	12

* Flathead screw size

Ring Type Driving Cup



Drive Cup Number	A	B	D	E	F	J*	# of Mtg Holes	# of Slots
MMS-0021-106-400	3.123 3.125	2.015 2.017	1 1/32	2 9/16	11/32	1/4-20	3	3
MMS-0022-106-400	3.623 3.625	2.015 2.017	1 5/32	3 1/16	11/16	1/4-20	3	3
MMS-0023-106-400	4.623 4.625	3.015 3.017	1 5/16	3 15/4	13/32	5/16-18	3	3
MMS-0024-106-400	5.123 5.125	3.015 3.017	1 5/16	4 7/16	13/32	5/16-18	3	3
MMS-0025-106-400	6.123 6.125	4.015 4.017	1 19/32	5 5/16	17/32	3/8-16	4	8
MMS-0026-106-400	7.120 7.125	5.015 5.017	1 25/32	6 1/4	17/32	3/8-16	6	12
MMS-0027-106-400	9.120 9.125	7.015 7.017	2 3/16	8 1/16	11/16	1/2-13	6	12
MMS-0028-106-400	10.102 10.125	8.015 9.017	2 7/16	9 1/16	11/16	1/2-13	6	12

* Cap screw size

