

Calzoni's uniqueness is "designed in"



The Calzoni lineup of radial piston hydraulic motors, now available from Denison's sales team and distributors throughout the world, shares the same kind of

unique pedigree and excellence of design that Denison vane, piston and valve products are known for.

The Calzoni motor's functional principle: It's in the transmission of hydraulic force to the motor's eccentric shaft by means of a telescopic piston-cylinder system without the need of other mechanical components — namely, piston rods.

The piston-cylinder system acts between the two spherical surfaces of the eccentric shaft and cylinder head. An important advantage of the Calzoni principle is that the sealing circular profile does not change its geometry under pressure.

The specially hardened eccentric shaft provides minimum mechanical wear and hydraulic losses, thus

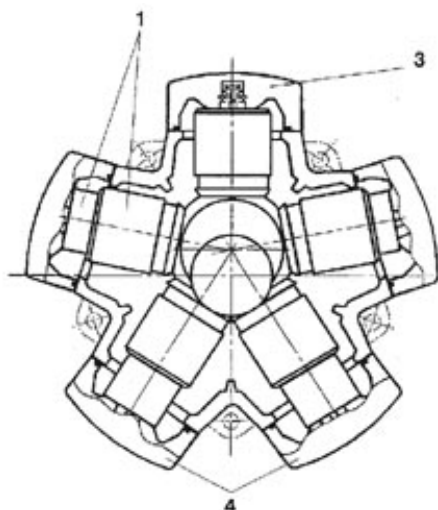
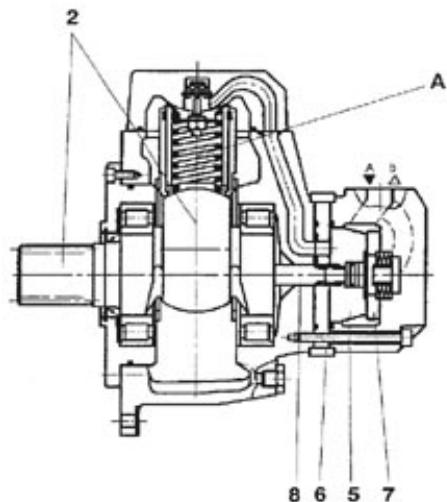
boosting mechanical and volumetric efficiencies.

Hydraulic oil distribution is achieved by means of a rotary valve driven by the motor shaft. The timing system has a radial configuration and is hydraulically balanced. It has been designed to self-recover in case of thermal expansion and contraction.

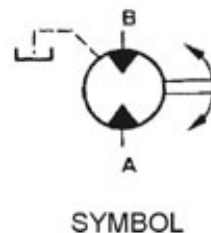
As a result, the motor provides smooth transmission of the torque, even at extremely low speed.



Calzoni radial piston hydraulic-motors for Plastic Molding Machine.



Calzoni radial piston hydraulic-motors for Construction Equipment.



MRC Series Specifications

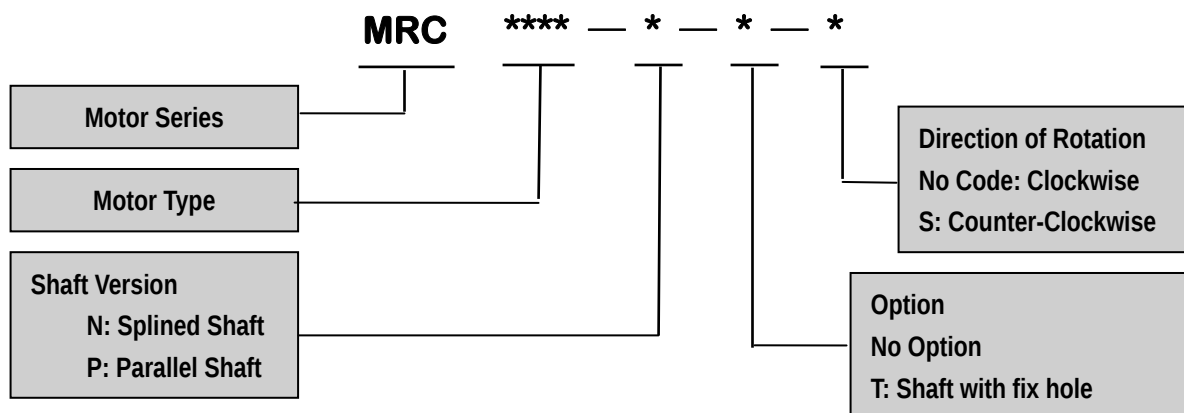
[\[Technical data & Dimensions\]](#)

Type	Displacement (cc/rev)	Theoretical specific torque(N.m/bar)	Max. input pressure (bar)			Max. Speed (rpm)	Max. Drain Pressure (bar)	Max. Power (kW)	Weight (kg)
			Cont.	Inter.	Peak				
MRC250	249.3	4	210	250	300	650	5	42	52
MRC300	304.1	4.84	210	250	300	650	5	46	52
MRC350	349	5.6	210	250	300	590	5	53	52
MRC400	398.1	6.34	210	250	300	480	5	57	52
MRC500	498.6	7.9	210	250	300	500	5	67	98
MRC600	611.2	9.7	210	250	300	450	5	76	98
MRC700	706.9	11.26	210	250	300	450	5	88	98
MRC800	804.3	12.8	210	250	300	430	5	96	98
MRC1000	1016	16.2	210	250	300	350	5	106	140
MRC1100	1125.8	17.93	210	250	300	320	5	116	140
MRC1200	1237	19.7	210	250	300	300	5	135	140
MRC1400L	1369.5	21.81	210	250	300	250	5	132	140
MRC1400	1369.5	21.81	210	250	300	250	5	132	227
MRC1600	1608	25.6	210	250	300	230	5	140	227
MRC1800	1809	28.8	210	250	300	230	5	145	227
MRC2000	2010	32	210	250	300	230	5	161	227
MRC2400	2393.1	38.11	210	250	300	200	5	167	325
MRC2800	2792	44.46	210	250	300	180	5	175	325
MRC3100	3103.7	49.42	180	210	250	180	5	171	325

* The max. continue power is obtained at max. speed and continue pressure.

Note: For technical data regarding different motor versions, please contact us!

Ordering Code



MRCN Series Specifications

[\[Technical data & Dimensions\]](#)

Type	Displacement (cc/rev)	Theoretical specific torque(N.m/bar)	Max. input pressure (bar)			Max. Speed (rpm)	Max. Drain Pressure (bar)	Max. Power (kW)	Weight (kg)
			Cont.	Inter.	Peak				
MRCN250	249.3	3.97	210	250	300	430	5	40	48
MRCN300	299.1	4.76	210	250	300	410	5	44	48
MRCN350	349	5.55	210	250	300	390	5	51	48
MRCN400L	366	5.8	210	250	300	380	5	51	48
MRCN400	398.1	6.34	210	250	300	370	5	54	50
MRCN450	449.2	7.15	210	250	300	450	5	60	62
MRCN500	502	7.99	210	250	300	430	5	64	62
MRCN600	607.7	9.67	210	250	300	410	5	73	62
MRCN700	692.7	11.03	210	250	300	390	5	73	62
MRCN800i	792	12.6	210	250	300	350	5	87	98
MRCN800	808.2	12.86	210	250	300	350	5	92	115
MRCN1000	977.2	15.55	210	250	300	290	5	92	115
MRCN1100	1096.8	17.46	210	250	300	270	5	104	115
MRCN1200	1201.1	19.12	210	250	300	250	5	113	115

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