

North American Hydraulics,
(NAHI, LLC), partnering with
Italgroupp offering Single
Displacement Radial Piston Motors
(Low Speed High Torque Motors).

Features and Options:

- High Volumetric and Mechanical Efficiencies
- Smooth Running at Low Speeds
- High Starting and Constant Torque
- High Freewheeling and Cavitation Resistance
- Wide Speed Range
- Compact Design
- Low Maintenance and High Reliability
- Bi-directional
- High Radial and Axial Force
- Speed Sensor Available
- Built-in Valves Available

Proven Solutions for:

- Marine and Offshore Equipment
- Winches / Conveyors
- Steel Bending Machines
- Fork Lift Trucks
- Skid Steer Loaders
- Dumpers
- Agricultural and Forestry Machines
- Municipal Vehicles
- Injection Moulding Machines

Please contact NAHI for additional information.

The above information should be used as a guide and is subject to change without notice.

Please contact NAHI for proper selection.

HCD



Radial Piston Hydraulic Motor Solution Providers



HCD Series Motor								
Motor		Displacement		Max Speed	Peak Speed	Max Pressure	Max Power	Peak Power
Frame	Size	in³	cc	rpm	rpm	psi	hp	hp
HCD05	40	2.4	40	1500	2000	4350	35	70
	60	3.6	60	1400	1900		50	83
	75	4.5	74				51	
	90	5.5	91	1300	1600		54	
	110	7.0	115					
	130	7.8	129					
	150	9.2	151	1200	1500	4000	70	
	170	10.1	166					
HCD1	100	5.9	98	1100	1400	4350	70	107
	150	9.4	154				71	
	175	10.5	173			4000		
	200	12.2	200					
	220	13.4	221	1000	1300			
	250	14.8	243	900	1200			
HCD2	200	11.7	193	1250	1500	4350	107	150
	250	15.3	251	1050	1200			
	300	18.6	305	800	1150			
	350	21.2	348	650	4350			
	400	25.8	424	550	900	4000		
	500	30.0	493					
HCD3	350	21.4	352	800	1050	4350	137	190
	400	25.9	426	700	900			
	500	29.6	486	550	850			
	600	36.3	595	500	800			
	700	42.0	689	450		750		
	800	48.3	792					
HCD5	800	51.1	837	580	720	4350	201	281
	1000	64.7	1060	500	700			282
	1200	73.2	1200		650			
	1300	79.8	1308	470	620			
	1500	89.2	1462					
	1600	99.2	1625	420				



Italgroupp

North American Hydraulics,
(NAHI, LLC), partnering with
Italgroupp offering Single
Displacement Radial Piston Motors
(Low Speed High Torque Motors).

Features and Options:

- High Volumetric and Mechanical Efficiencies
- Smooth Running at Low Speeds
- High Starting and Constant Torque
- High Freewheeling and Cavitation Resistance
- Wide Speed Range
- Compact Design
- Low Maintenance and High Reliability
- Bi-directional
- High Radial and Axial Force
- Speed Sensor Available
- Built-in Valves Available

Proven Solutions for:

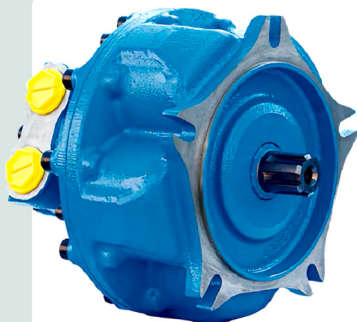
- Marine and Offshore Equipment
- Winches / Conveyors
- Steel Bending Machines
- Fork Lift Trucks
- Skid Steer Loaders
- Dumpers
- Agricultural and Forestry Machines
- Municipal Vehicles
- Injection Moulding Machines

Please contact NAHI for additional information.

The above information should be used as a guide and is subject to change without notice.

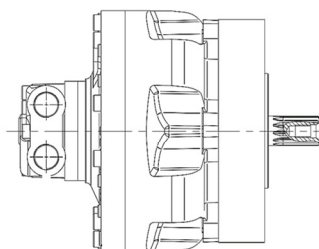
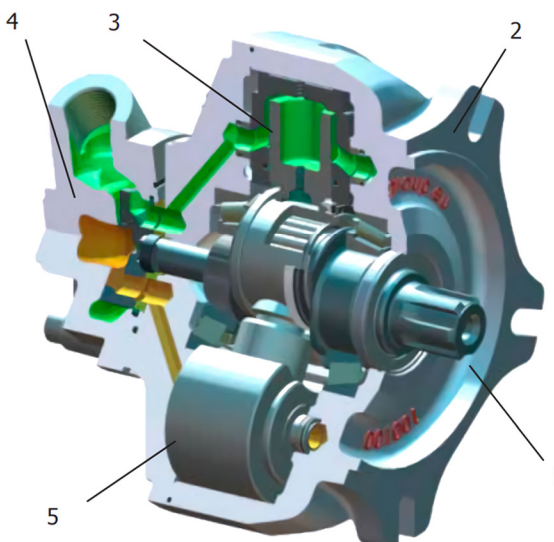
Please contact NAHI for proper selection.

HSM

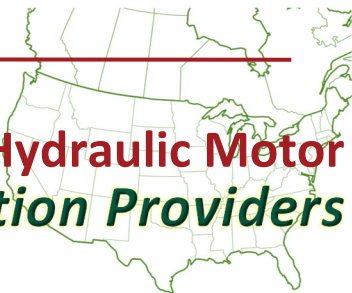


**Enhanced Version
of HCD Motor**

HC series motors are radial piston hydraulic motors (generally indicated as LSHT motors, low speed high torque motors) with a rotating shaft (1) and a stationary housing (2). The pistons (3) are located radially and the working fluid provide the mechanical force that push the pistons against the eccentric shaft, providing the shaft output torque. The inlet and outlet flow to and from the pistons is regulated by a distributor (4), that provides the oil distribution correct timing. The HC motor design is very compact because the piston and the connecting rod are realized in the same piece, to make this realizable an oscillating cylinder is present (5). Acting in the adequate way (increasing or reducing the oil flow coming from the pump) the motor rotational speed can be increased or reduced. The motor design guarantee extremely high starting torque and high mechanical working efficiency. Respecting the limitation of working parameters (indicated into the technical datasheets) and all recommendations (including fluid recommendations), high motor lifetimes are obtained and very low maintenance requirements are needed.



Radial Piston Hydraulic Motor Solution Providers



HSM Series Motor

Motor		Displacement		Max Speed	Peak Speed	Max Pressure	Max Power	Peak Power
Frame	Size	in³	cc	rpm	rpm	psi	hp	hp
HSM05	40	2.4	40	1700	2200	4350	44	60
	60	3.6	60	1600	2100		54	83
	75	4.5	74					
	90	5.5	91	1500	1800			
HSM1	100	5.9	98	1400	1700		71	107
	150	9.4	154	1300	1600			
	175	10.5	173					
HSM2	200	11.7	193	1400	1650		107	150
	250	15.3	251	1200	1350			
	300	18.6	305	950	1300			
HSM3	350	21.4	352		1200		131	190
	400	25.9	426	850	1050			
	500	29.6	486	650	950			
HSM5	800	51.1	837	700	800		201	282
	1000	64.7	1060	620	780			

The HSM version is a special configuration with balanced shaft, in order to erase or reduce to very low values the motor vibration due to the motor rotation at high speeds. In this way the motor can work at higher speeds in a more efficient and less noisy way.

Italgroupp