

NACHI

Nachi Wheel Motors for Compact Rubber Track Machines
Improve Your Sales Potential with Rubber Tracks.

W H E E L M O T O R S



ADD RUBBER TRACKS TO YOUR PRODUCT LINE...

Give your customers the option of rubber tracks, as an alternative to tires, and better meet their light-duty construction and earthmoving needs.



Nachi America, Inc. Wheel Motors for Compact Rubber Track Machines - Sold Separately or with Chermack Machine Inc. Custom-Built Tracks.

Wheel Motors for Compact Rubber Track Machines

Proven and trusted, our wheel motors are utilized by 50% of Europe and Japan's rubber track markets. Nachi Wheel Motor sales exceed over 65,000 in those regions.

Nachi PHV Series Wheel Motors for Track Drives:

- Incorporates easily into a design
- All-in-one design - all required components are integrated (planetary gearbox, hydraulic motor, negative type parking brake, counterbalance valve, optional relief valve)
- High reliability - all main parts, including special-made angular ball bearings in gearbox, are made and tested by Nachi
- High efficiency - the axial piston motor maintains high efficiency. It reduces engine stall, and enables better machine maneuverability.
- Compact
- Two-speed function
- Parking brake - included as standard for safety
- Auto kick down

...INCREASE YOUR SALES OPPORTUNITIES



Tracks are the ideal choice for applications requiring:

- Minimal ground damage or track marks
- Increased traction, especially on muddy, wet or sandy surfaces
- Greater stability

Rubber track applications now in use:

- Construction
- HDD
- Landscaping
- Excavating
- Utility
- Stump Cutter
- Digger Derrick

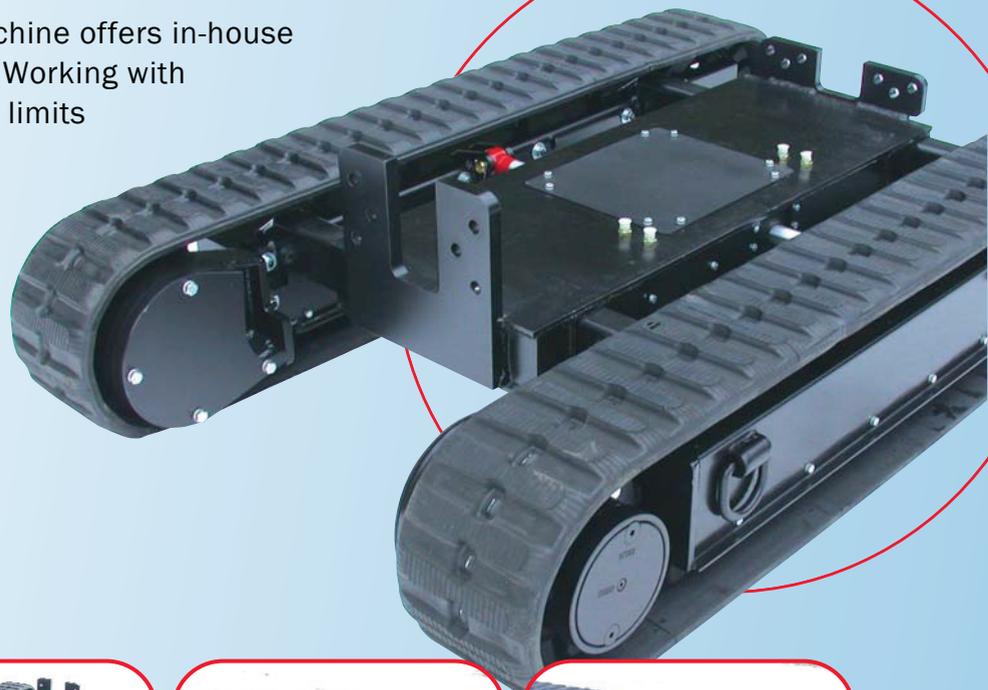


Custom-Built Tracks

Partnered with Nachi, Chermack Machine offers in-house track development and engineering. Working with existing designs, Chermack Machine limits customer downtime and gets the product to market faster.

Chermack Machine Tracks:

- Expandable for added stability
- Turf-friendly
- Custom-built
- Non-marking track
- Two-speed functionality
- Compact
- Built in U.S.A.
- ISO 9001:2000



Nachi PHV Series Wheel Motor Specifications

Model	Available Gear Ratio	Available Hyd. Motor Displacement (Lo/Hi mode) in ³ /rev (cm ³ /rev)	Max. Final Displacement (Lo mode) in ³ /rev (cm ³ /rev)	Max. Output Torque (Theoretical Value)		Hydraulic Motor (Piston Motor)			Optional Relief Valve S: Shockless Type R: Surge Suppressor	Mass lb (kg)
				Intermittent (Lo mode)	Continuous (Lo mode)	Max. Operating Pressure	Max. Speed (Theo.) (Hi mode)	Optional Parking Brake Torque		
				lbs-in (N-m)	lbs-in (N-m)	psi (MPa)	min ⁻¹	lbs-in (N-m)		
PHV-1B	1/25.26 1/36.96	0.58/0.29 (9.5/4.7)	27.97 (458.3)	13363 (1510)	6681 (755)	3553 (24.5)	3000	173 (19.6)		37 (17)
		0.67/0.34 (10.9/5.6)								
PHV-2B	1/31.00 1/39.00	0.98/0.51 (16.1/8.4)	40.93 (670.8)	23186 (2620)	11593 (1310)	3553 (24.5)	3000	287 (32.4)	R	55 (25)
		0.98/0.56 (16.1/9.1)								
PHV-3B	1/36.51 1/45.20	1.26/0.67 (20.7/10.9)	69.23 (2917)	35407 (4114)	18204 (2057)	3553 (24.5)	3500	321 (36.3)	S, R	79 (36)
		1.31/0.79 (21.4/12.9)								
PHV-4B	1/36.80 1/47.53	1.75/1.06 (28.6/17.4)	102.39 (1677.8)	61000 (6893)	30504 (3447)	3553 (24.5)	3500	764 (86.3)		123 (56)
		1.81/1.12 (29.7/18.3)								
PHV-5B	1/64.25	2.09/1.33 (34.3/21.8)	178.01 (2917)	115050 (12999)	57525 (6499)	4640 (32.0)	3800	937 (105.9)	S, R	190 (87)
		2.26/1.25 (37.1/20.5)								

Note 1: Real torque at 10min⁻¹ (Lo) should be approximately 85% of theoretical torque.

Intermittent means less than 7% of operating time.

Note 2: Speed at Hi (P<10.2MPa) should be approximately 96% of theoretical speed.

Note 3: Multiply brake torque value by gear ratio to get final brake torque.

NACHI

Nachi America, Inc.
Hydraulics Division
715 Pushville Rd.
Greenwood, IN 46143
Phone: 800-622-4410
e-mail: ml-nai.hydraulics@nachi.com
www.nachiamerica.com