



**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



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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

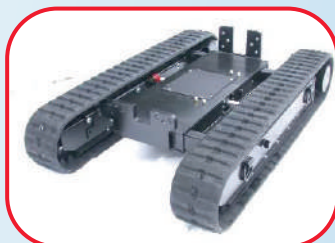
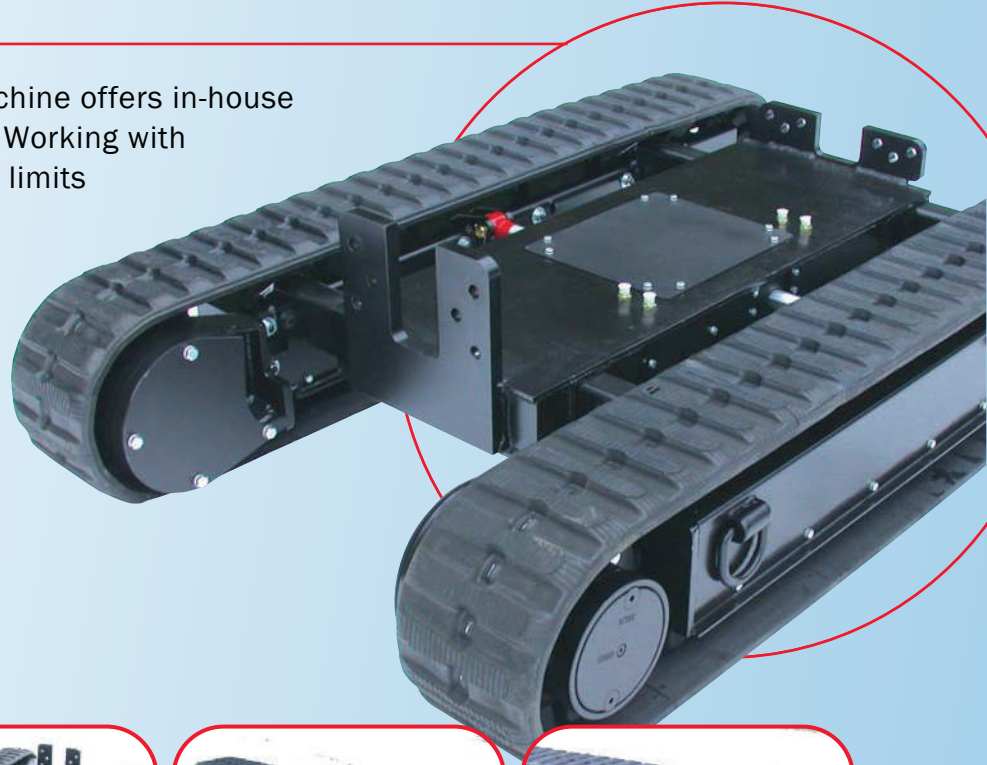


Custom-Built Tracks

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)	Max. Final Displacement (Lo mode)	Max. Output Torque (Theoretical Value)		Hydraulic Motor (Piston Motor)			Optional Relief Valve S: Shockless Type R: Surge Suppressor	Mass
				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) 0.67/0.34 (10.9/5.6) 0.70/0.35 (11.4/5.8) 0.76/0.38 (12.4/6.2)	27.97 (458.3)	13363 (1510)	6681 (755)	3553 (24.5)	3000	173 (19.6)	R	37 (17)
PHV-2B	1/31.00 1/39.00	0.98/0.51 (16.1/8.4) 0.98/0.56 (16.1/9.1) 1.05/0.52 (17.2/8.6) 1.05/0.58 (17.2/9.5)	40.93 (670.8)	23186 (2620)	11593 (1310)			287 (32.4)		55 (25)
PHV-3B	1/36.51 1/45.20	1.26/0.67 (20.7/10.9) 1.31/0.79 (21.4/12.9) 1.44/0.73 (23.6/12.0) 1.44/0.79 (23.6/12.9) 1.44/0.96 (23.6/15.7) 1.53/0.87 (25.1/14.2)	69.23 (2917)	35407 (4114)	18204 (2057)		3500	321 (36.3)	S, R	79 (36)
PHV-4B	1/36.80 1/47.53	1.75/1.06 (28.6/17.4) 1.81/1.12 (29.7/18.3) 2.09/1.17 (34.2/19.1) 2.15/1.30 (35.3/21.3)	102.39 (1677.8)	61000 (6893)	30504 (3447)			764 (86.3)		123 (56)
PHV-5B	1/64.25	2.09/1.33 (34.3/21.8) 2.26/1.25 (37.1/20.5) 2.58/1.30 (42.3/21.3) 2.77/1.39 (45.4/22.7)	178.01 (2917)	115050 (12999)	57525 (6499)	4640 (32.0)	3800	937 (105.9)	S, R	190 (87)

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

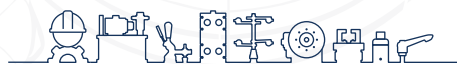
Intermittent means less than 7% of operating time.

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.

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