



**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

# AND 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:*

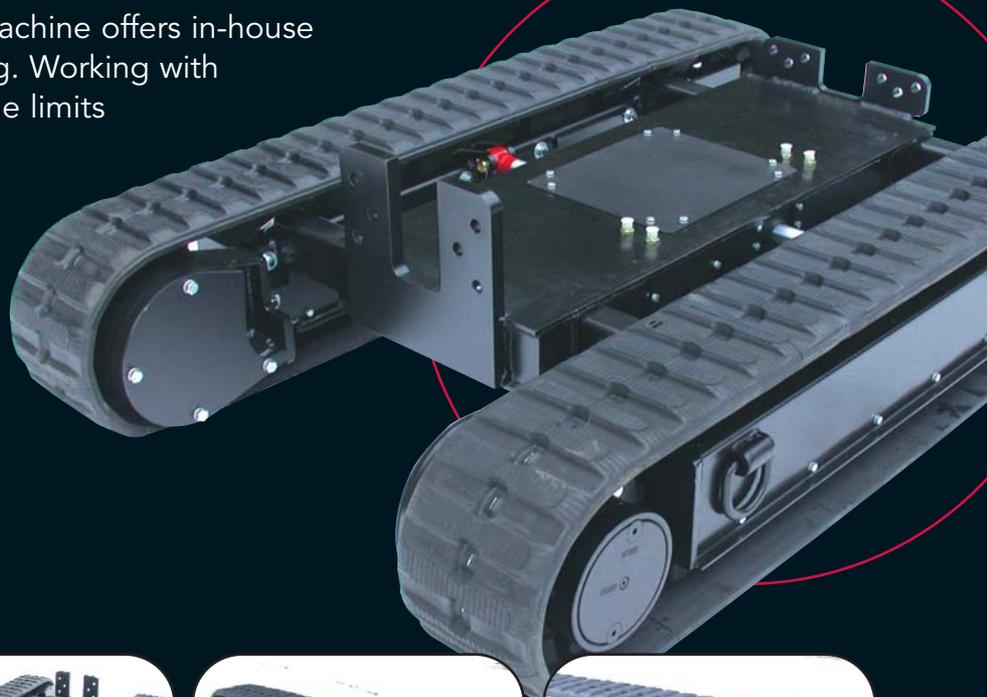
- Construction
- HDD
- Landscaping
- Excavating
- Utility
- Stump Cutter
- Digger Derrick

## *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		
in <sup>3</sup> /rev (cm <sup>3</sup> /rev)	in <sup>3</sup> /rev (cm <sup>3</sup> /rev)	lbf-in (N-m)	lbf-in (N-m)	psi (MPa)	min <sup>-1</sup>	lbf-in (N-m)	lb (kg)			
PHV-1B	1/25.26	0.58/0.29	27.97	13363	6681	3553	3000	173		37
	1/36.96	(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)	(458.3)	(1510)	(755)					
PHV-2B	1/31.00	0.98/0.51	40.93	23186	11593			287	R	55
	1/39.00	(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)	(670.8)	(2620)	(1310)					
PHV-3B	1/36.51	1.26/0.67	69.23	35407	18204		3500	321	S, R	79
	1/45.20	(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)	(1134.5)	(4114)	(2057)					
PHV-4B	1/36.80	1.75/1.06	102.39	61000	30504			764		123
	1/47.53	(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)	(1677.8)	(6893)	(3447)					

Note 1: Real torque at 10min<sup>-1</sup> (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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