

AIR CHAMP[®] PRODUCTS

User Manual



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High Speed Clutch Models MWHS and HWHS

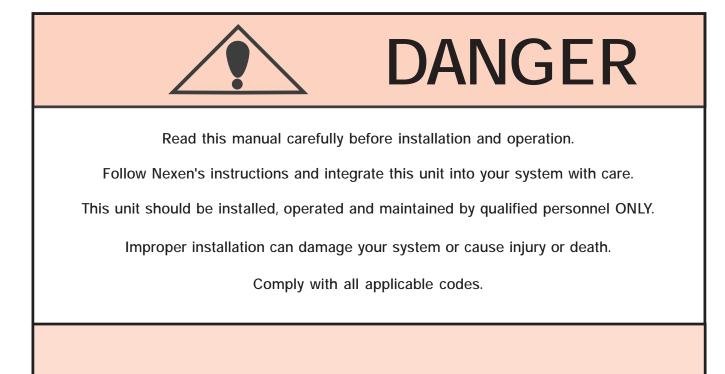
FORM NO. L-20005-M-0204



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INTRODUCTION



The "Air Champ" High Speed Clutch is designed to handle high inertia load at high RPM and cycle at frequencies far beyond the operational range of ordinary clutches. The High Speed Series of clutches is easy to install and mount on motor shafts or on the end of driven shafts without special tooling or attachments. Simple design features only one bearing, minimum number of parts to reduce maintenance and extend operational life. All of these units operate on static air pressure.

MOUNTING

A key of correct length is supplied with the clutch. Insert the key in your shaft keyway and slide the clutch over the key and to the end of the hub. (Part No. 1) Locate the clutch and tighten the set screws in the hub.

AIR CONNECTION

Connect the rotary air union (Part No. 8) to the hub (Part No. 1). There is a short piece of flexible hose supplied, for connection to the air union. DO NOT USE RIGID PIPE OR TUBING for this connection. Connect your air controls, keeping the controls as close as possible to the clutch for faster engagement and disengagement. Now your clutch is ready to operate.

LUBRICATION

The clutch requires no lubrication as the bearing(s) in the sheave are sealed and require no further lubrication. The only lubrication required is light oil periodically in the air union. When these units are used for high cycling, use an air line lubricator.

MAINTENANCE

Examine the friction facing (Part No. 3) occasionally and change when it is approximately 3/16 inch thick. To disassemble the unit, remove the rotary air union (Part No. 8), loosen the Set Screw (Part No. 13) and remove Cap Screw (Part No. 21), lockwasher (Part No. 22), threaded insert (Part No. 20) and piston (Part No. 6). Slide the friction disc assembly (Part No. 5) off from the hub and the friction facing (Part No. 3) is exposed for changing. To reassemble simply reverse this process.

Failure of the clutch to operate properly may be due to one or more of the following:

- 1. Air leakage from the air union (Part No. 8).
- 2. Faulty air controls.
- 3. Broken or worn O-Rings (Part Nos. 10, 11 & 12).
- 4. Broken or weak return spring (Part No. 4).
- 5. Worn or grease-laden friction facing (Part No. 3).
- 6. Bad bearing(s) in sheave (Part No. 7).

A WARNING

This clutch has rotating parts. If you install this clutch in an area where an operator could come into contact with the rotating parts and be injured, then use a quard that will not restrict the flow of cooling air around the clutch.



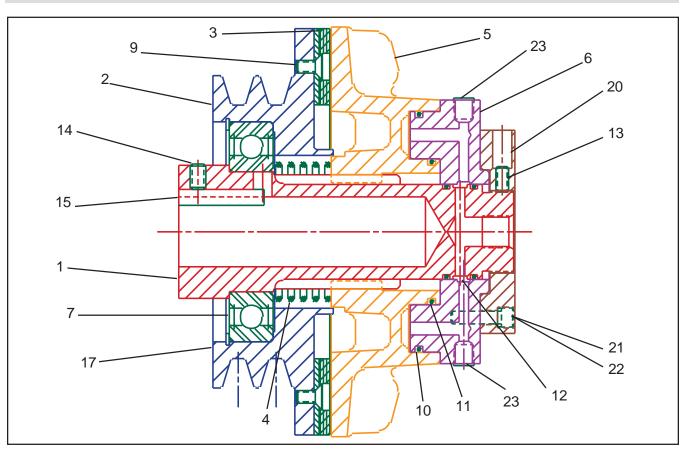
REPAIR KITS

The repair kits listed below include a friction facing, friction facing screws, spring and o-rings.

Order Replacement Bearings separately. Specify model size and type (Sheave or Drive Disc).

<u>Model</u>	Product Number
MWHS	848400
HWHS	848500

PARTS LIST



ITEM NO.	DESCRIPTION	MWHS	HWHS
1	Hub	1	1
* 2	Sheave	1	1
■ 3	Facing, Friction	1	1
■ 4	Spring	1	1
5	Disc, Assembly, Friction	1	1
6	Piston	1	1
7	Bearing	1	1
8	Rotary Air Union(not shown)	1	1
■ 9	Screw, Machine	6	6
1 0	O-Ring (large)	1	1
∎11	O-Ring (small)	1	1

ITEM NO.	DESCRIPTION	MWHS	HWHS
■ 12	O-Ring (hub)	2	2
13	Screw, Set	2	2
14	Screw, Set	2	2
15	Кеу	1	1
17	Ring, Retainer	1	1
20	Insert, Threaded	1	1
21	Screw, Cap	4	4
22	Lockwasher	4	4
23	Plug, Pipe	2	2
25	Hose Assembly	1	1

- * Used in place of drive disc sheave models
- Repair kit items

NOTE: Bearings are not included as Repair Kit items. To order new bearings specify model size and type (Sheave or Drive Disc).

FOR REPLACEMENT PARTS CONTACT YOUR LOCAL NEXEN DISTRIBUTOR

NOTE: When ordering any parts, specify clutch model, part number, description, and quntity for prompt and accurate delivery.



WARRANTY

Warranties

Nexen warrants that the Products will be free from any defects in material or workmanship for a period of 12 months from the date of shipment. NEXEN MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, AND ALL IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED. This warranty applies only if (a) the Product has been installed, used and maintained in accordance with any applicable Nexen installation or maintenance manual for the Product; (b) the alleged defect is not attributable to normal wear and tear; (c) the Product has not been altered, misused or used for purposes other than those for which it was intended; and (d) Buyer has given written notice of the alleged defect to Nexen, and delivered the allegedly defective Product to Nexen, within one year of the date of shipment.

Exclusive Remedy

The exclusive remedy of the Buyer for any breach of the warranties set out above will be, at the sole discretion of Nexen, a repair or replacement with new, serviceably used or reconditioned Product, or issuance of credit in the amount of the purchase price paid to Nexen by the Buyer for the Products.

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Warranty Claim Procedures

To make a claim under this warranty, the claimant must give written notice of the alleged defect to whom the Product was purchased from and deliver the Product to same within one year of the date on which the alleged defect first became apparent.



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