

## Introduction

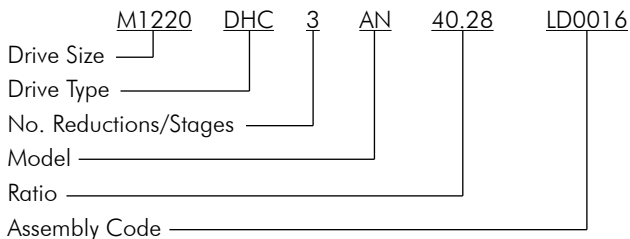
This literature applies to standard gear drives with ratings, speeds, ratios and dimensions as catalogued in current Rexnord selection guides. Refer to the Factory for all specials and modifications.

- IDENTIFY DRIVE** — Give complete data shown on drive nameplate. Also, give reference numbers, Falk part numbers, and name of parts required. Drawings and reference numbers are representative of all sizes and the actual parts may not agree in exact detail for each drive size. Complete nameplate data and parts reference number will assure receipt of correct parts.

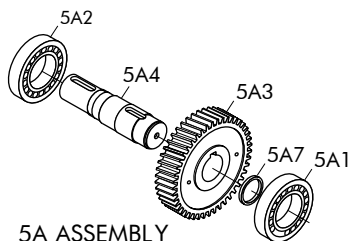
### Sample Nameplate

|   |                          |                            |                      |
|---|--------------------------|----------------------------|----------------------|
|   |                          |                            |                      |
| MODEL   | M1220DHC3AN-39.68-LD0016 |                            |                      |
| M.O. S/N  | 02-066310-01             | RATIO                      | 39.68                |
| RPM n1/n2   | 1750/44.10               | APPLIED POWER              | 500 HP               |
| CATALOG POWER   | 753 HP                   | SERVICE FACTOR             | 1.50                 |
| DATE  | 05-02                    | APPROX. OIL                | 45 GAL               |
| SEE OWNER'S MANUAL FOR INSTALLATION AND SERVICE<br><b>LUBRICATION</b><br>FILL TO LEVEL INDICATED WITH EXTREME PRESSURE OIL<br>PER REQUIREMENTS. CHANGE OIL EVERY 2500 HOURS<br>OR SIX MONTHS, WHICHEVER OCCURS FIRST.<br>FAILURE TO FOLLOW INSTRUCTIONS VOIDS WARRANTY. |                          |                            |                      |
| AMBIENT TEMPERATURE<br>-9 TO +16°C (15 TO 60°F)<br>+10 TO +52°C (50 TO 125°F)   |                          | ISO-VG<br>220 EP<br>320 EP | AGMA<br>5 EP<br>6 EP |
| Rexnord Industries, LLC<br>www.rexnord.com  |                          |                            | D013324              |

### Drive Identification



- IDENTIFY INDIVIDUAL PARTS** — Use exploded view on Page 2 to determine Ref. No. of required parts.



| Ref. No. | Part Description                      |
|----------|---------------------------------------|
| 5A1      | Bearing, Shaft LS                     |
| 5A2      | Bearing, Shaft LS                     |
| 5A3      | Gear, LS                              |
| 5A4      | Shaft, LS (Incl. Ref. 5A7)            |
| 5A7      | Spacer, Gear/Bearing (Incl. Ref. 5A4) |

**NOTE:** It is recommended that the shaft seals be replaced whenever it becomes necessary to disturb a seal in the process of disassembling a drive. It is also recommended that the Repair Kit, Ref. No. "RK", consisting of a full set of seals, bearings and bore plugs be considered when disassembling a drive for servicing.

**PINIONS, GEARS & SHAFTS** — Replacement of a pinion, gear or shaft may also require the replacement of the respective connected parts. It is recommended that Rexnord be contacted to help make that determination.

**FASTENERS** — DRIVE ONE fasteners are generally re-usable. If replacement fasteners are required, consult the drive service manual for sizing and grade information for local availability. The Factory will of course furnish fastener kits if required. Simply identify the part for which they are required.

**SHAFT COUPLINGS & OTHER DRIVE ACCESSORIES** — Refer to coupling parts guide or appropriate accessory product literature for servicing or replacement information.

- ORDER PLACEMENT** — Place your order with your local Rexnord Representative or Distributor. If you need assistance call the number below.

## Bearing & Seal Identification

Refer to the exploded views on Page 2 to identify the bearings and oil seals by the parts list Reference Number. Then refer to Tables 2 thru 5, Page 4, to determine the Manufacturer and Manufacturer's part number.

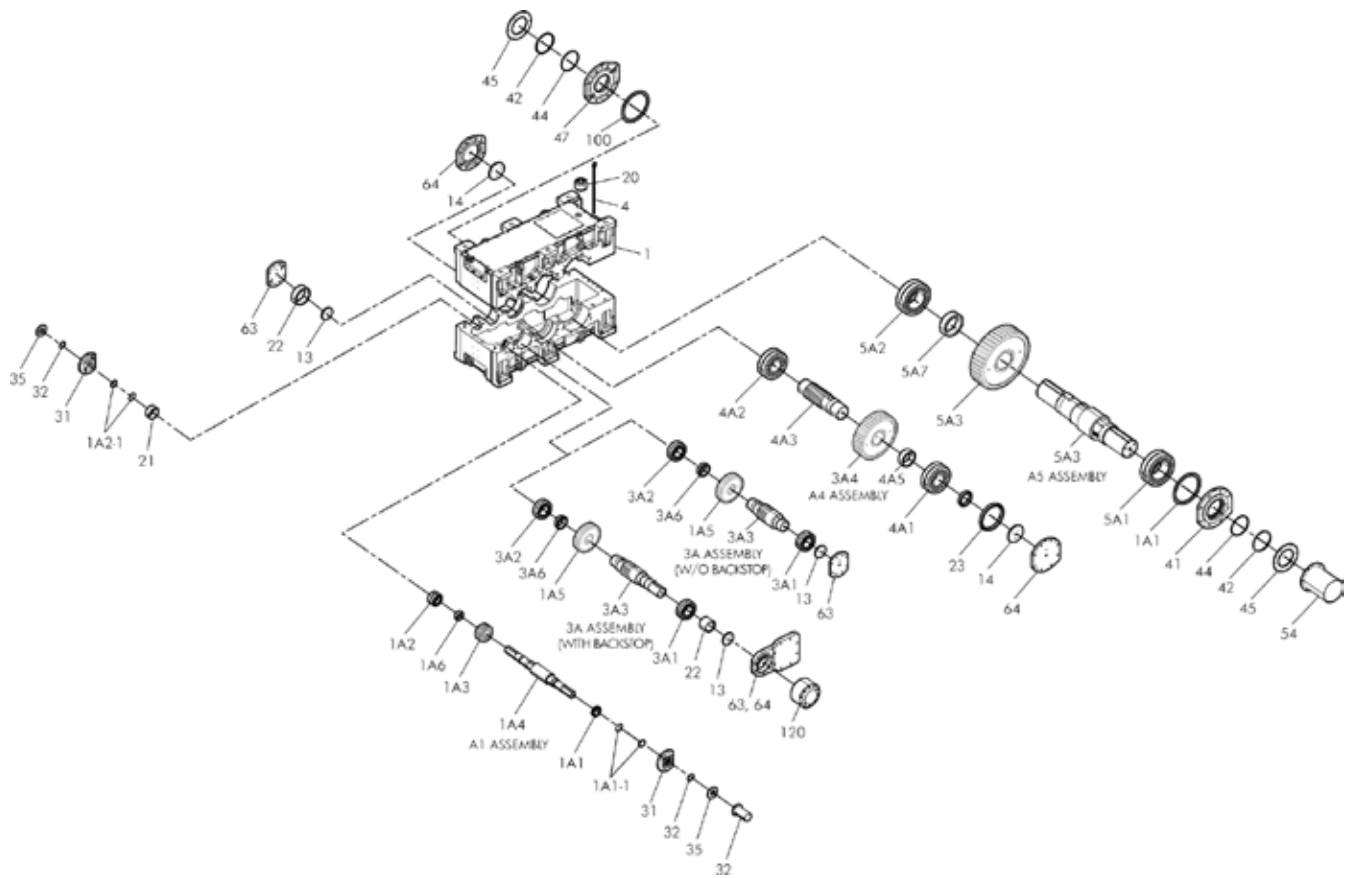
## Corrosion Protection & Storage

**CAUTION:** Follow guidelines below to avoid damage to parts.

- For domestic or indoor storage, Factory provides standard 24 month protection as boxed or optional 24 month protection for individual parts.
- For export or outdoor storage, Factory provides optional 18 month protection.

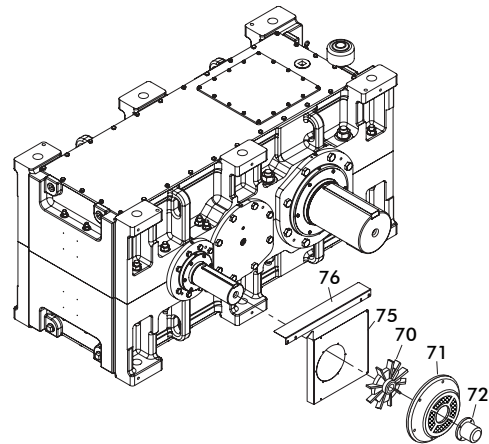
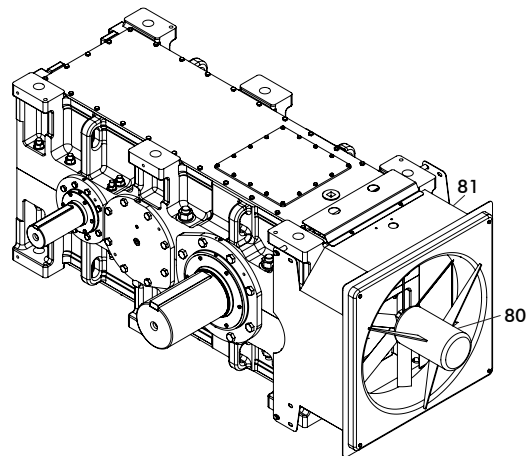
**CAUTION:** This protection does not cover exposure to elements such as standing water, etc.

### Parts Diagram



**TABLE 1 — Parts List**

| Ref. No.  | Description   |
|-----------|---|
| 1         | Housing<br>(Consists of Base & Cover & all Hardware)                |
| 2         | Inspection Cover  |
| 4         | Dipstick  |
| 12        | Keeper Plate, HS Bearing (Single Ended)                             |
| 13        | Keeper Plate, Intermediate Bearing                                  |
| 14        | Keeper Plate, LSP Bearing   |
| 20        | Air Vent  |
| 21        | Spacer, Housing HS Bore   |
| 22        | Spacer, Housing Intermediate Bore                                   |
| 23        | Spacer, Housing LS Pinion Bore                                      |
| 30        | Seal Cage Assy. HS (Incl. Ref. 31-35, 34 where req'd.)              |
| 31        | Seal Cage HS  |
| 32        | Seal, Exclusion HS (Outer)  |
| 34        | Seal, Oil HS (Inner)  |
| 35        | Cover, Seal HS  |
| 40        | Seal Cage Assy. LS (Incl. Ref. 41-45, 44 where req'd.)              |
| 41        | Seal Cage LS  |
| 42        | Seal, Exclusion LS (Outer)  |
| 44        | Seal, Oil LS (Inner)  |
| 45        | Cover, Seal LS  |
| 52        | Guard, Shaft HS   |
| 54        | Guard, Shaft LS   |
| 62        | Cover, End (HS Pinion)  |
| 63        | Cover, End (Intermediate)   |
| 64        | Cover, End (LS Pinion)  |
| 65        | Cover, End (LS Gear)  |
| 70        | Fan, Shaft  |
| 71        | Guard, Fan  |
| 72        | Shaft Cover, Fan Assy.  |
| 75        | Shroud, Fan   |
| 76        | Shroud, Fan (Drive)   |
| 77        | Fan Assy. (Incl. Ref. 70-76)  |
| 80        | Fan, Electric   |
| 81        | Fan, Electric, Drive Shroud   |
| 100       | Gasket, Shim Kit (Drive) Including Sealing Package                  |
| 120       | Backstop  |
| <b>1A</b> | <b>HIGH SPEED SHAFT ASSEMBLY</b> (Incl. Ref. 1A1-1A4 & 1A6)         |
| 1A1       | Bearing, Shaft HS   |
| 1A2       | Bearing, Shaft HS   |
| 1A3       | Pinion, HS SOS (Incl. Ref. 1A6)                                     |
| 1A3/1A4   | Pinion, Shaft HS (Incl. Ref. 1A6)                                   |
| 1A5       | Gear, HS  |
| 1A6       | Spacer, HS Pinion/Bearing (Incl. with Ref. 1A3 & 1A3/1A4)           |
| <b>3A</b> | <b>INTERMEDIATE SHAFT ASSEMBLY</b> (Incl. Ref. 3A1-3A3, 3A6 & 1A5)) |
| 3A1       | Bearing, Shaft Int.   |
| 3A2       | Bearing, Shaft Int.   |
| 3A3       | Pinion & Shaft Int. (Incl. Ref. 3A6)                                |
| 3A4       | Gear, Int.  |
| 3A6       | Spacer, Int. Gear/Bearing (Incl. with Ref. 3A3)                     |
| <b>4A</b> | <b>LOW SPEED PINION ASSEMBLY</b> (Incl. Ref. 4A1-4A5 & 3A4)         |
| 4A1       | Bearing, Pinion LS  |
| 4A2       | Bearing, Pinion LS  |
| 4A3       | Pinion LS (Incl. Ref. 4A5)  |
| 4A5       | Spacer, Int. Gear/Bearing (Incl. with Ref. 4A3)                     |
| <b>5A</b> | <b>LOW SPEED SHAFT ASSEMBLY</b> (Incl. Ref. 5A1-5A7)                |
| 5A1       | Bearing, Shaft LS   |
| 5A2       | Bearing, Shaft LS   |
| 5A3       | Gear LS   |
| 5A4       | Shaft LS (Incl. Ref. 5A7)   |
| 5A7       | Spacer, Gear/Bearing (Incl. with Ref. 5A4)                          |

**SHAFT FAN PARTS**

**ELECTRIC FAN PARTS**


**TABLE 2 — Oil Seals/Falk Part Numbers**

| DRIVE SIZE | H.S. Shaft    |         | L.S. Shaft |         |
|------------|---------------|---------|------------|---------|
|            | Reference No. |         |            |         |
|            | 32            | 34      | 42         | 44      |
| 1220       | D009045       | D003434 | D009047    | D003199 |
| 1230       | D009045       | D003434 | D009047    | D003199 |
| 1240       | D009049       | D009050 | D009051    | D009052 |
| 1250       | D009049       | D009050 | D009051    | D009052 |

**TABLE 3 — Seal Manufacturer's Part Numbers**

| Falk Part No. | Manufacturer's Part No. |              |
|---------------|-------------------------|--------------|
|               | Chicago Rawhide         | Transcom     |
| D003199       | ...                     | 240X270X15TC |
| D003434       | CR29526                 | ...          |
| D009045       | CR29542                 | 75X100X10VTF |
| D009047       | ...                     | 240X280X16SC |
| D009049       | CR37076                 | 95X130X12VTC |
| D009050       | 37041                   | 95X120X12VTF |
| D009051       | ...                     | 260X300X20SB |
| D009052       | ...                     | 260X290X15TC |

**TABLE 4 — Bearings/Falk Part Numbers**

| DRIVE SIZE | H.S. Shaft    |         | 1st Int. Shaft |         | 2nd Int. Shaft |         | L.S. Shaft |         |
|------------|---------------|---------|----------------|---------|----------------|---------|------------|---------|
|            | Reference No. |         |                |         |                |         |            |         |
|            | 1A1           | 1A2     | 3A1            | 3A2     | 4A1            | 4A2     | 5A1        | 5A2     |
| 1220       | D008857       | 919237  | 919281         | 919281  | 919112         | 919112  | D008825    | D008825 |
| 1230       | D008857       | 919237  | 919281         | 919281  | 919112         | D008829 | D008825    | D008825 |
| 1240       | D008826       | D008858 | 919111         | D008828 | 919315         | 919315  | D008830    | D008830 |
| 1250       | D008826       | D008858 | 919111         | D008828 | 919315         | D008831 | D008830    | D008830 |

**TABLE 5 — Bearing Manufacturer's Part Numbers**

| Falk Part No. | Manufacturer's Part No. |
|---------------|-------------------------|
| 919111        | NACHI 22324EXW33C3      |
| 919112        | SKF 22332CCC3W33        |
| 919237        | NACHI 22216EXW33C3      |
| 919281        | NACHI 23224EX1W33C3     |
| 919315        | SKF 22338CCC3W33        |
| D008825       | NACHI 23148EW33         |
| D008826       | SKF 23220CCC3W33        |
| D008828       | TIMKEN 23324YMW33C3S11  |
| D008829       | NSK 23332CAME4C3S11     |
| D008830       | SKF 24052CCW33          |
| D008831       | NSK 23338CAME4C3S11     |
| D008857       | 2TS-IM33216 •           |
| D008858       | 2TS-IM30220 •           |

• Special end play required on these bearings. Do not replace without consulting the Factory.