

Introduction

This literature applies to standard right angle triple reduction gear drives with ratings, speeds, ratios, and dimensions as catalogued in current Rexnord selection guides. The low speed shaft may be configured left or right when viewing the high speed end. Refer to Factory for all specials and modifications.

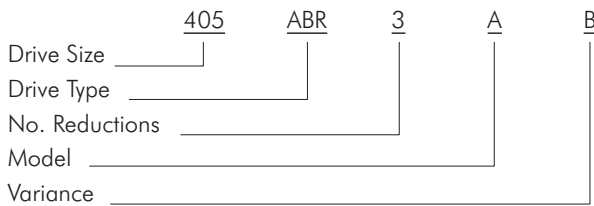
- IDENTIFY DRIVE** — Give complete data shown on drive nameplate. Also, give reference numbers, Falk™ part numbers, and name of parts required. Drawings and reference numbers are representative of all sizes and the actual parts may not agree in exact detail for each drive size. Complete nameplate data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

The numerical designation stamped on the nameplate completely identifies all parts used in the drive. All drives with exactly the same nameplate markings have interchangeable rotating elements.

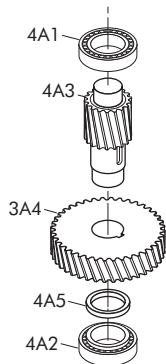
Sample Nameplate



Drive Identification



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



4A ASSEMBLY

Ref. No.	Part Description
3A4	Gear
4A1	Bearing
4A2	Bearing
4A3	Pinion & Shaft
4A5	Spacer

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. New Shim-gaskets are recommended to prevent oil leakage and in some cases necessary to adjust internal running clearances. Shim-gaskets are available only in kits; see Ref. No. 100.

BEVEL GEARING — Bevel gearing is manufactured in matched and marked sets to ensure proper tooth contact. Unless bevel pinions and gears are installed as matched sets, in accordance with the instructions in Rexnord service manuals, Rexnord cannot be responsible for the rating, life, noise, or performance of the parts or the products receiving them.

PINION-SHAFT-BEARING ASSEMBLIES — With today's production procedures, Rexnord can normally furnish a total rotating assembly more economically than if a customer purchases individual parts, disassembles the old parts, and reassembles using some new and some old parts. Falk™ replacement assemblies also reduce down time and always consist of all new parts.

FASTENERS — Fasteners are sold in sets for a specific item, i.e. four for an end cover, eight for a low speed seal cage, etc. Fasteners describe cap screws, bolts, studs, nuts, and lock washers as required.

RATIO CHANGE — Refer complete information to Factory.

SHAFT COUPLINGS — Refer to coupling parts guide and price list.

- HOW TO USE THIS GUIDE** — Use the Part Ref. No. (Step 2) and the drive Model No. (Step 1) to determine the part description and use this information to order the required parts.
- ORDER REPLACEMENT** — Place your order with your local Rexnord Account Executive. 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, Pages 3 thru 5, 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

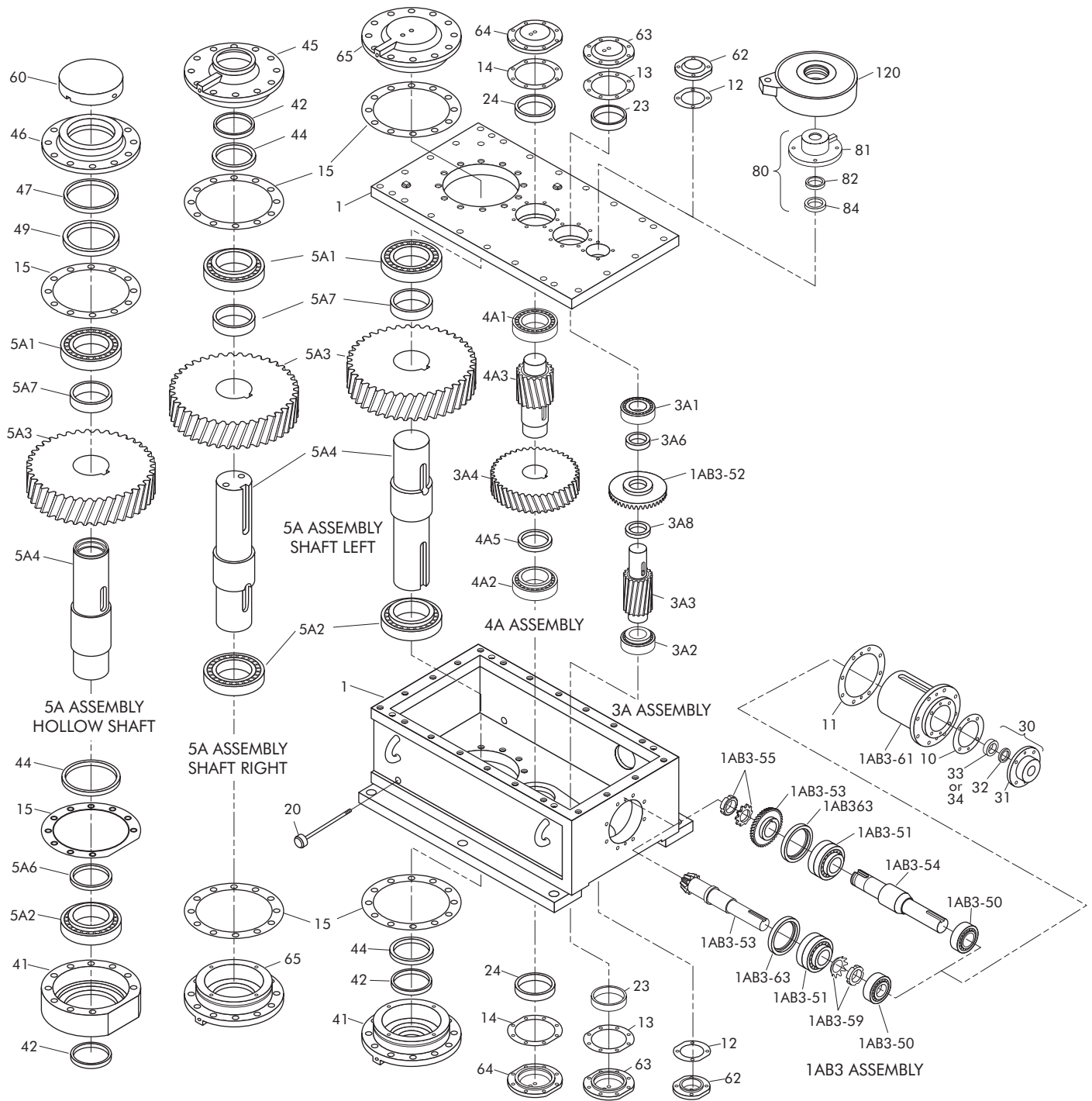


TABLE 1 — Parts List

Ref. No.	Part Description	Drive Type
1	Housing - Cover & Base	ABR,ABRJ
10	Shim - Gasket	ABR,ABRJ
11	Shim - Gasket	ABR,ABRJ
12	Shim - Gasket	ABR,ABRJ
13	Shim - Gasket	ABR,ABRJ
14	Shim - Gasket	ABR,ABRJ
15	Shim - Gasket	ABR,ABRJ
20	Dipstick	ABR,ABRJ
23	Spacer	ABR,ABRJ
24	Spacer	ABR,ABRJ
30	Seal Cage Assy. (Inc. Ref. Nos. 31 thru 33)	ABR,ABRJ
31	Seal Cage	ABR,ABRJ
32	Seal	ABR,ABRJ
33	Bush Seal	ABR,ABRJ
34	Seal	ABR,ABRJ
41	Bearing/Seal Cage	ABR,ABRJ
42	Seal	ABR,ABRJ
44	Seal	ABR,ABRJ
45	Bearing/Seal Cage	ABR
46	Seal Cage	ABRJ
47	Seal	ABRJ
49	Seal	ABRJ
60	Shaft Cover	ABRJ
62	Shaft Cover (Size 405 thru 465)	ABR,ABRJ
63	Shaft Cover	ABR,ABRJ
64	Shaft Cover	ABR,ABRJ
65	Bearing Cage/Cover	ABR
80	Intermediate Seal Cage Assembly (For Use With Backstop)	
81	Cage, Seal	
82	Seal, Exclusion	
84	Seal, Oil	
100	Shim - Gasket Kit (Inc. Ref. Nos. 10,11,12, 13, 14 & 15)	ABR,ABRJ
120	Replacement Backstop	ABR,ABRJ
	HIGH SPEED SHAFT ASSEMBLY — WITH INTEGRAL PINION	
1AB3	Shaft Assembly (Inc. Ref. Nos. 1AB3-50 thru 1AB3-63 & Ref. No. 30)	ABR,ABRJ
1AB3-50	Bearing	ABR,ABRJ
1AB3-51	Bearing	ABR,ABRJ
1AB3-52	Bevel Gear (Matched set with 1AB3-53)	ABR,ABRJ
1AB3-53	Bevel Pinion & Shaft (Matched set with 1AB3-52)	ABR,ABRJ
1AB3-59	Locknut & Washer	ABR,ABRJ
1AB3-61	Bearing Cage	ABR,ABRJ
1AB3-63	Threaded Ring	ABR,ABRJ
	HIGH SPEED SHAFT ASSEMBLY — WITH BORED PINION	
1AB3	Shaft Assembly (Inc. Ref. Nos. 1AB3-50 thru 1AB3-63 & Ref. No. 30)	ABR,ABRJ
1AB3-50	Bearing	ABR,ABRJ
1AB3-51	Bearing	ABR,ABRJ
1AB3-52	Bevel Gear (Matched set with 1AB3-53)	ABR,ABRJ
1AB3-53	Bevel Pinion (Matched set with 1AB3-52)	ABR,ABRJ
1AB3-54	Shaft	ABR,ABRJ
1AB3-55	Locknut & Washer	ABR,ABRJ
1AB3-61	Bearing Cage	ABR,ABRJ
1AB3-63	Threaded Ring	ABR,ABRJ
	INTERMEDIATE SHAFT ASSEMBLY	
3A	Shaft Assembly (Inc. Ref. Nos. 3A1 thru 3A8 & 1AB3-52)	ABR,ABRJ
3A1	Bearing	ABR,ABRJ
3A2	Bearing	ABR,ABRJ
3A3	Pinion & Shaft	ABR,ABRJ
3A4	Gear (Inc. with Ref. No. 4A)	ABR,ABRJ
3A6	Spacer	ABR,ABRJ
3A8	Spacer (Sizes 405, 465 & 485)	ABR,ABRJ
	LOW SPEED PINION ASSEMBLY	
4A	Shaft Assembly (Inc. Ref. Nos. 4A1 thru 4A5 & 3A-4)	ABR,ABRJ
4A1	Bearing	ABR,ABRJ
4A2	Bearing	ABR,ABRJ
4A3	Pinion & Shaft	ABR,ABRJ
4A5	Spacer	ABR,ABRJ

TABLE 1 — Parts List (Cont'd)

Ref. No.	Part Description	Drive Type
	LOW SPEED SHAFT ASSEMBLY	
5A	Shaft Assembly (Inc. Ref. No. 5A1 thru 5A7)	ABR,ABRJ
5A1	Bearing	ABR,ABRJ
5A2	Bearing	ABR,ABRJ
5A3	Gear	ABR,ABRJ
5A4	Shaft	ABR,ABRJ
5A6	Spacer (Sizes 405 only)	ABR,ABRJ
5A7	Spacer	ABR,ABRJ

TABLE 2 — Oil Seals/Falk™ Part Numbers

DRIVE SIZE	Reference No. & Type										
	32	33	34	42		44		47	49	82	84
	ABR/ABRJ	ABR/ABRJ	ABR/ABRJ	ABR	ABRJ	ABR	ABRJ	ABRJ	ABRJ	ABR/ABRJ	ABR/ABRJ
405	913018	...	912946	913000	912816	913001	912833	912816	912833	912991	912992
425	912993	...	912994	913016	2913531	913017	912767	2913531	912767	913012	913013
445	912993	...	912994	913004	912672	913005	912578	912672	912578	912995	912996
465	913030	...	913031	913023	912580	913024	912940	912580	912940	912997	912998
485	912995	...	912996	2913169	912550	2913170	2913168	912550	2913168	913014	913015
505	913028	...	913029	913025	2918235	912769	912808	2918235	912808		
535	913028	...	913029	2918393	2900932	2903222	912842	2900932	2913542		
555	913014	5741076	...	912550	912902	913034	912903	912902	912903		

TABLE 3 — Bearings/Falk™ Part Numbers

DRIVE SIZE	Reference No. & Type									
	1AB3-50	1AB3-51	3A1	3A2	4A1	4A2	5A1	5A2	5A1	5A2
	ABR/ABRJ	ABR/ABRJ	ABR/ABRJ	ABR/ABRJ	ABR/ABRJ	ABR/ABRJ	ABR	ABR	ABRJ	ABRJ
405	920615	921820	921809 ★	921809 ★	921899	921899	921674	921674	921331	921331
425	919242	921815	921895	921895	921552	921552	921881	921881	921759	921759
445	919242	921817	921678	921899 †	921443	921443	921439	921439	2912892	2912892
465	920698	921821	921443	921551 ‡	921541	921541	2912611	2912611	2912802	2912802
485	919065	921819	921541	921459 ●	921470	921470	921788	921788	2913166	2913166
505	920713	921818	921470	921470	921481	921481	921791	921791	2917472	2917472
535	920713	921818	921470	921470	921901	921901	2918718	921794	2918635	2918635
555	921911	921911	921481	921481	921906	921906	2918739	2918739	2918743	2918743

★ Use 2916560 for ratios 14.38 thru 32.07.

† Use 921678 for ratios 14.41 thru 21.48.

‡ Use 921443 for ratios 13.82 thru 20.99 and 34.54.

● Use 921541 for ratios 14.16 thru 22.55.

TABLE 4 — Seal Manufacturer's Part Numbers

Falk™ Part No.	Manufacturer's No.
912550	CRWHI-115021
912578	JM/16554-LUP
912580	JM/1000-9830-LPD
912672	CR90006
912767	CRWH77540
912769	CR92536
912808	CR1300570
912816	CR70016
912833	CR70052
912842	JM10516LUPHL15 ▲
912902	CR1500240
912903	CR1500380
912940	JM/17846LDS
912946	CRW17558(V)
912991	CR22363
912992	CRWH22449(V)
912993	CRWH24914(V)
912994	CRWH24984(V)
912995	CRWH34892(V)
912996	JM/8821LPD-H5/L16(V)
912997	CRWH39932(V)
912998	CRWH39996(V)
913000	CRWH52447(V)
913001	CRWH52489(V)
913004	CRWH64998(V)
913005	JM/8950LUP-H5/L16(V)
913012	JM/5961LUP-H5/L16(V)
913013	CRWH29958(V)
913014	CRWH44973(V)
913015	JM/11709LUP-H5/L16(V)
913016	CRWH57522(V)
913017	CRWH57523(V)
913018	CRW17379(V)
913023	JM/12094LUP
913024	JM/8951LUP
913025	NAT416257
913028	CRWH37405(V)
913029	CRWH37577(V)
913030	JM14042LPDH5/L16(V)
913031	CRWH127365(V)
913034	JM/10509H1L5LUP
2900932	CR1350250HSD1
2903222	CR105051
2913168	CRWHI115041
2913169	CRWHI80010
2913170	CRWHI80037
2913531	CR77530
2913542	CR1350542HDS-Z
2918235	CR1300250HDS1
2918393	CR1050240-HDS1

▲ Manufacturer is J.M. Clipper.

TABLE 5 — Bearing Manufacturer's Part Numbers

Falk™ Part No.	Manufacturer's No.
919065	SKF22218-W33/C3
919242	SKF22313-W33/C3
920615	ND-HYATTU-5309TS
920698	SKF22314-W33/C3
920713	LB/MU-5220-TV
921331	TIMHM237545/HM237510
921439	TIMHM237535/HM237510
921443	TIMHH221449/HH221410
921459	TIMHH224335/HH224310
921470	TIMHH228349/HH228310
921481	TIMHH234048/HH234010
921541	TIMHH224346/HH224310
921551	TIMHH221430/HH221410
921552	TIMHH421246C/HH421210
921674	TIM95528/95925
921678	TIM850/832
921759	TIMJHM840449/JHM840410
921788	TIMH242649/H242610
921791	TIMH247549/H247510
921794	TIMH852849/H852810
921809	TIM5583/5535
921815 ▼	TIM9285-90022
921817 ▼	TIM9380-90015
921818 ▼	TIMHH924349/HH924310D
921819 ▼	TIMH924045-90027
921820 ▼	TIM72225C-907A1
921881	TIM99575/99100
921895	TIMH715346/H715311
921899	TIM843/832
921901	TIMHH437549/HH437510
921906	TIMNP180202/NP513983
921911	TIMHH932132/HH932110
2912611	TIMH239649/H239610
2912802	TIMEE275100/EE275155
2912892	TIMEE130902/EE131400
2913166	TIMEE722115/EE722185
2916560	TIMNP747110/NP520308
2917472	TIMHM261049/HM261010
2918635	TIMHM262749/HM262710
2918718	TIMEE295110/EE295193
2918739	TIMHH258248/HH258210
2918743	TIMHM266446/HM266410

▼ Double row (TDO) tapered roller bearings must be purchased per the manufacturer's assembly part number, or Falk™ part number, to obtain correct bearing end play.