



MINICASE® (SMI/SMID) WORM GEAR OIL FILL QUANTITIES - FOOT HOUSING



DRIVESYSTEMS

RETAIN FOR FUTURE USE

U13150 - 1 of 1

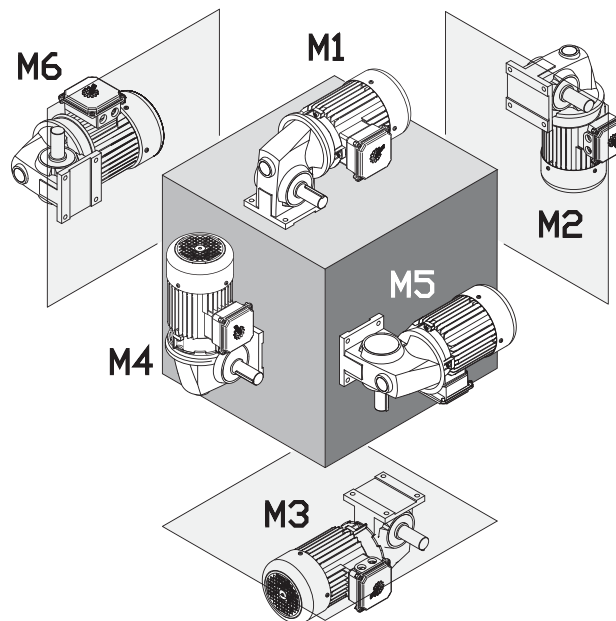
MINICASE® (SMI/SMID Series) Lubrication

NORD MINICASE® (SMI/SMID Series) worm gear reducers and worm gearmotors are inherently maintenance free, factory oil filled, and supplied with a high quality, long life synthetic gear oil intended to be suitable for the life of the product. For lubrication types see user manual U11050.

NORD MINICASE® (SMI/SMID Series) worm gear reducers and worm gearmotors are equipped with oil plugs. Venting the gear unit is optional as discussed in user manual U14750.

Related User Manuals

- U10800 - MINICASE® (SMI/SMID Series) Worm – Lubrication Guidelines.
- U11050 - MINICASE® (SMI/SMID Series) Worm – Lubrication Types
- U14750 - MINICASE® (SMI/SMID Series) Worm – Oil Plug Locations



HARMFUL SITUATION



For mounting orientations other than shown please consult NORD Gear. Reducer modifications may be required.

MINICASE® (SMI Series) Gear Reducer Oil Fill - Foot Housing

Type	M1		M2		M3		M4		M5		M6	
	oz	ml	oz	ml	oz	ml	oz	ml	oz	ml	oz	ml
SK 1SMI31	1.5	45	1.5	45	1.5	45	1.5	45	1.5	45	1.5	45
SK 1SMI40	2.7	80	2.7	80	2.7	80	2.7	80	2.7	80	2.7	80
SK 1SMI50	4.4	130	4.4	130	4.4	130	4.4	130	4.4	130	4.4	130
SK 1SMI63	9.1	270	9.1	270	9.1	270	9.1	270	9.1	270	9.1	270
SK 1SMI75	14.2	420	14.2	420	14.2	420	14.2	420	14.2	420	14.2	420

Oil fill level is universal and independent of mounting position

Oil levels shown apply to any foot-mount gear housings including those ending with no-suffix or LX or AX.

MINICASE® (SMID Series) Integral Gearmotor Oil Fill - Foot Housing

Type	M1		M2		M3		M4		M5		M6	
	oz	ml	oz	ml	oz	ml	oz	ml	oz	ml	oz	ml
SK 1SMID31	2.0	60	3.6	105	2.4	70	1.7	50	2.4	70	2.4	70
SK 1SMID40	3.4	100	5.6	165	4.1	120	3.0	90	4.1	120	4.1	120
SK 1SMID50	5.9	175	8.8	260	6.6	195	5.4	160	6.6	195	6.6	195
SK 1SMID63	9.6	285	14.4	425	11.0	325	9.1	270	11.0	325	11.0	325

Oil levels shown apply to any foot-mount gear housings including those ending with no-suffix or LX or AX.

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159



MINICASE® (SM SERIES) WORM GEAR OIL FILL QUANTITIES - FLANGE HOUSING



DRIVESYSTEMS

RETAIN FOR FUTURE USE

U13200 - 1 of 1

MINICASE® (SM Series) Lubrication

NORD MINICASE® (SM Series) worm gear reducers and worm gearmotors are inherently maintenance free, factory oil filled, and supplied with a high quality, long life synthetic gear oil intended to be suitable for the life of the product. These gear units are also supplied without oil service plugs or vents.

Related User Manuals

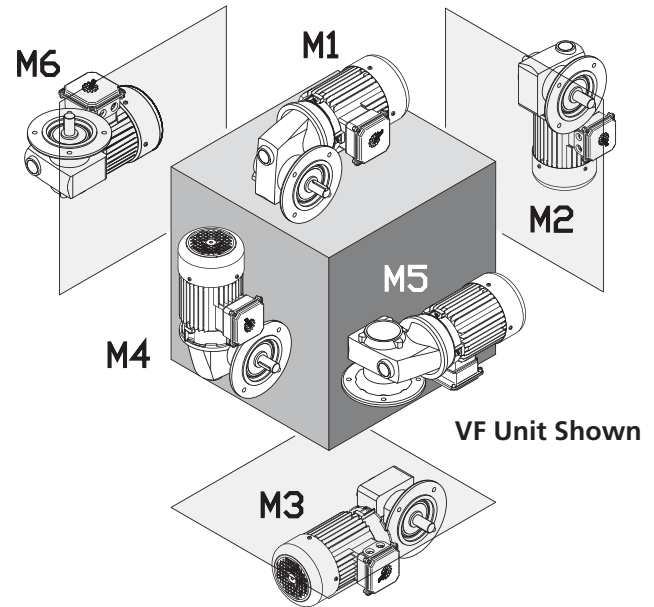
U10790 MINICASE® (SM Series) Worm – Lubrication Guidelines.
U11040 MINICASE® (SM Series) Worm – Lubrication Types.

STOP

HARMFUL SITUATION

STOP

For mounting orientations other than shown please consult NORD Gear. Reducer modifications may be required.



Type	M1		M2		M3		M4		M5		M6	
	oz	ml	oz	ml	oz	ml	oz	ml	oz	ml	oz	ml
SK 1SM31	4.4	130	4.4	130	4.4	130	4.4	130	4.4	130	4.4	130
SK 1SM40	8.1	240	8.1	240	8.1	240	8.1	240	8.1	240	8.1	240
SK 2SM40	11.5	340	11.5	340	11.5	340	12.8	380	11.5	340	11.5	340
SK 1SM50	9.1	270	9.1	270	9.1	270	9.1	270	9.1	270	9.1	270
SK 2SM50	12.5	370	12.5	370	12.5	370	15.2	450	12.5	370	12.5	370
SK 1SM63	15.2	450	15.2	450	15.2	450	15.2	450	15.2	450	15.2	450
SK 2SM63	20.3	600	20.3	600	20.3	600	24.7	730	20.3	600	20.3	600

Oil Levels shown apply to flange-mount gear housings with model type ending in AZ, AF, VZ or VF.



MINICASE® (SMI/SMID) WORM GEAR OIL FILL QUANTITIES - FLANGE HOUSING



DRIVESYSTEMS

RETAIN FOR FUTURE USE

U13250 - 1 of 1

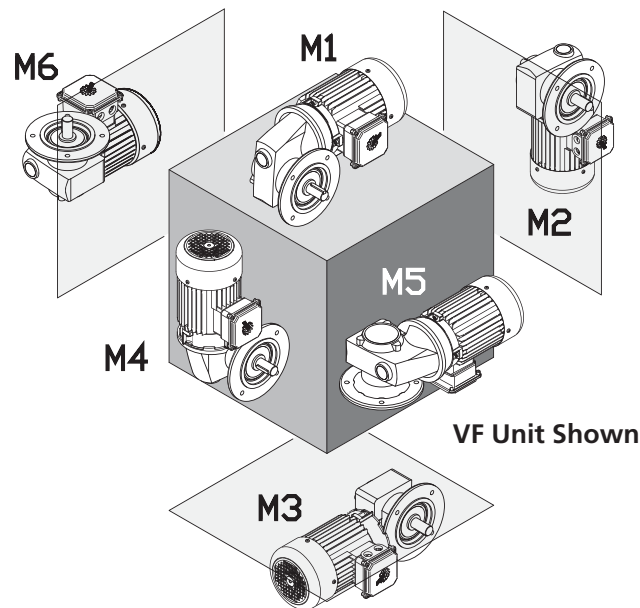
MINICASE® (SMI/SMID Series) Lubrication

NORD MINICASE® (SMI/SMID Series) worm gear reducers and worm gearmotors are inherently maintenance free, factory oil filled, and supplied with a high quality, long life synthetic gear oil intended to be suitable for the life of the product. For lubrication types see user manual U11050.

NORD MINICASE® (SMI/SMID Series) worm gear reducers and worm gearmotors are equipped with oil plugs. Venting the gear unit is optional as discussed in user manual U14750.

Related User Manuals

- U10800 - MINICASE® (SMI/SMID Series) Worm – Lubrication Guidelines.
- U11050 - MINICASE® (SMI/SMID Series) Worm – Lubrication Types
- U14750 - MINICASE® (SMI/SMID Series) Worm – Oil Plug Locations



HARMFUL SITUATION



For mounting orientations other than shown please consult NORD Gear. Reducer modifications may be required.

MINICASE® (SMI Series) Gear Reducer Oil Fill - Flange Housing

Type	M1		M2		M3		M4		M5		M6	
	oz	ml	oz	ml	oz	ml	oz	ml	oz	ml	oz	ml
SK 1SMI31	1.5	45	1.5	45	1.5	45	1.5	45	1.5	45	1.5	45
SK 1SMI40	2.7	80	2.7	80	2.7	80	2.7	80	2.7	80	2.7	80
SK 1SMI50	4.4	130	4.4	130	4.4	130	4.4	130	4.4	130	4.4	130
SK 1SMI63	9.1	270	9.1	270	9.1	270	9.1	270	9.1	270	9.1	270
SK 1SMI75	14.2	420	14.2	420	14.2	420	14.2	420	14.2	420	14.2	420

Oil Fill is universal and independent of mounting position.

Oil Levels shown apply to flange-mount gear housings with model type ending in AZ, AF, VZ or VF.

MINICASE® (SMID Series) Integral Gearmotor Oil Fill - Flange Housing

Type	M1		M2		M3		M4		M5		M6	
	oz	ml	oz	ml	oz	ml	oz	ml	oz	ml	oz	ml
SK 1SMID31	2.0	60	3.6	105	2.4	70	1.7	50	2.4	70	2.4	70
SK 1SMID40	3.4	100	5.6	165	4.1	120	3.0	90	4.1	120	4.1	120
SK 1SMID50	5.9	175	8.8	260	6.6	195	5.4	160	6.6	195	6.6	195
SK 1SMID63	9.6	285	14.4	425	11.0	325	9.1	270	11.0	325	11.0	325

Oil Levels shown apply to flange-mount gear housings with model type ending in AZ, AF, VZ or VF.

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FLEXBLOC™ (SI/SID SERIES) WORM GEAR OIL FILL QUANTITIES



DRIVESYSTEMS

RETAIN FOR FUTURE USE

U13300 - 1 of 1

FLEXBLOC™ (SI/SID Series) Lubrication

NORD FLEXBLOC™ worm gear reducers are inherently maintenance free, factory oil filled, and supplied with a high quality, long life synthetic gear oil intended to be suitable for the life of the product. For lubrication types see User Manual U11060.

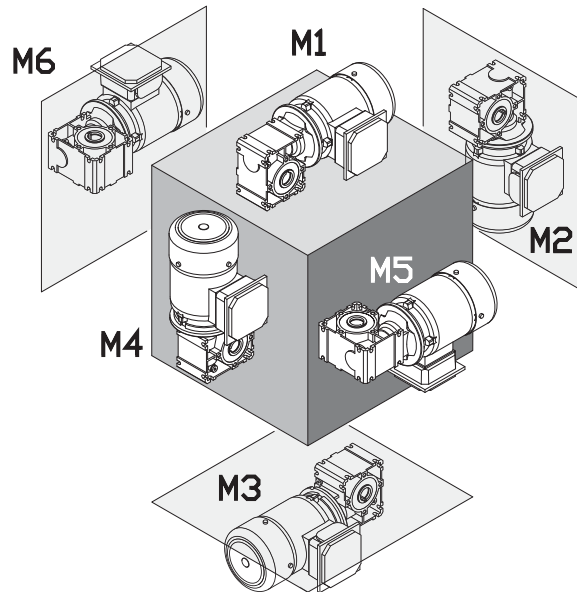
NORD FLEXBLOC™ worm gear reducers are equipped with oil plugs. Venting the gear unit is optional as discussed in User Manual U14800.

Related User Manuals

U10810 FLEXBLOC™ (SI/SID Series) Worm – Lubrication Guidelines

U11060 FLEXBLOC™ Worm (SI/SID Series) – Lubrication Types

U14800 FLEXBLOC™ Worm (SI/SID Series) – Oil Plug Locations



FLEXBLOC™ (SI Series) Gear Reducer Oil Fill

Type	M1		M2		M3		M4		M5		M6	
	oz	ml	oz	ml	oz	ml	oz	ml	oz	ml	oz	ml
SK 1SI31	1.0	30	1.0	30	1.0	30	1.0	30	1.0	30	1.0	30
SK 1SI40	1.9	55	1.9	55	1.9	55	1.9	55	1.9	55	1.9	55
SK 1SI50	3.2	95	3.2	95	3.2	95	3.2	95	3.2	95	3.2	95
SK 1SI63	6.1	180	6.1	180	6.1	180	6.1	180	6.1	180	6.1	180
SK 1SI75	12.2	360	12.2	360	12.2	360	12.2	360	12.2	360	12.2	360

Oil Fill is universal and independent of mounting position.

FLEXBLOC™ (SID Series) Gear Reducer Oil Fill

Type	M1		M2		M3		M4		M5		M6	
	oz	ml	oz	ml	oz	ml	oz	ml	oz	ml	oz	ml
SK 1SID31	1.7	50	3.0	90	2.4	70	1.7	50	2.4	70	2.4	70
SK 1SID40	3.0	90	5.1	150	3.7	110	2.7	80	4.1	120	4.1	120
SK 1SID50	5.7	170	6.8	200	5.7	170	5.1	150	6.1	180	6.1	180
SK 1SID63	9.8	280	12.2	360	9.8	290	8.1	240	10.5	310	10.5	310

Integral gear motors only available upon special request.

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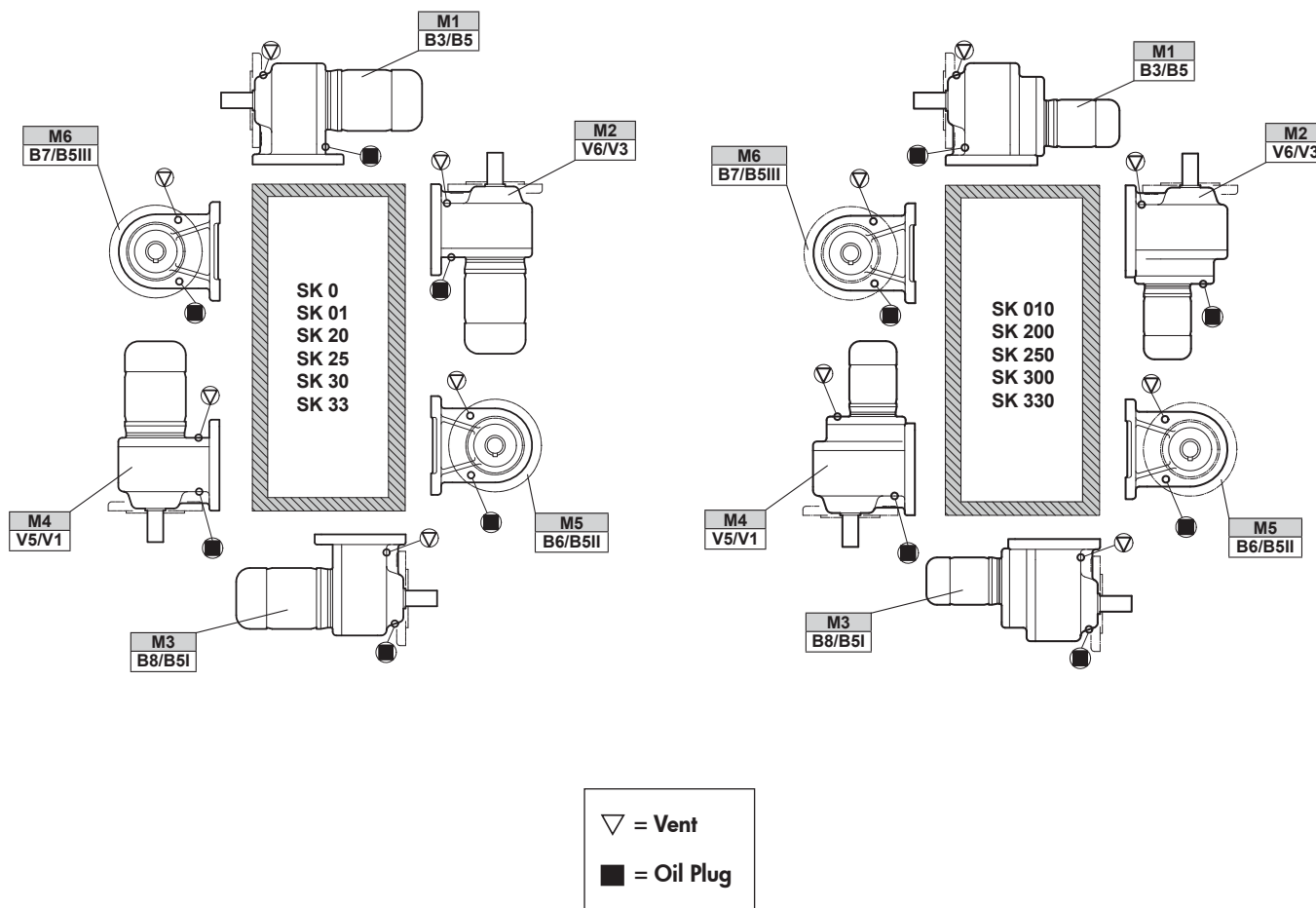
STANDARD IN-LINE OIL PLUG & VENT LOCATIONS



U14000 - 1 of 1

Oil plug connections

All reducers are shipped from the factory with a pre-determined oil fill level in accordance to the specified reducer size and mounting position. *For mounting orientations other than shown please consult NORD Gear. New plug locations may be required.*





DRIVESYSTEMS

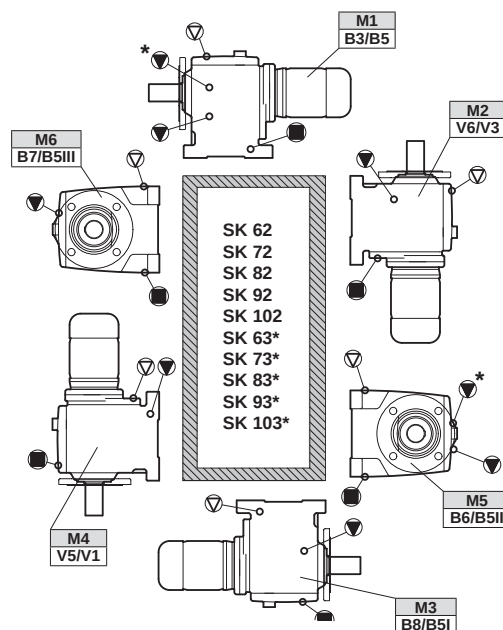
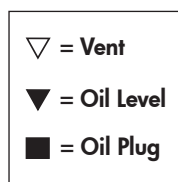
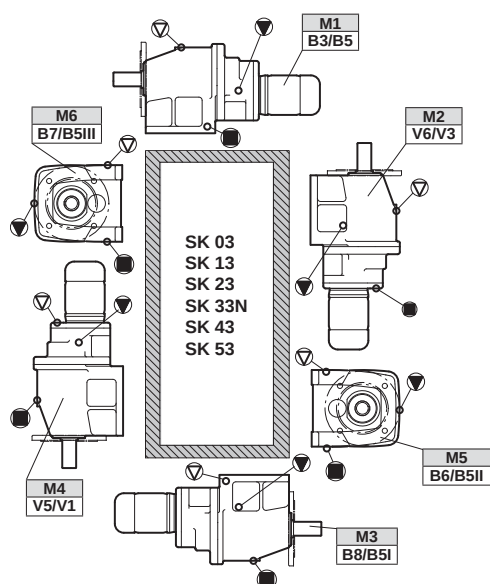
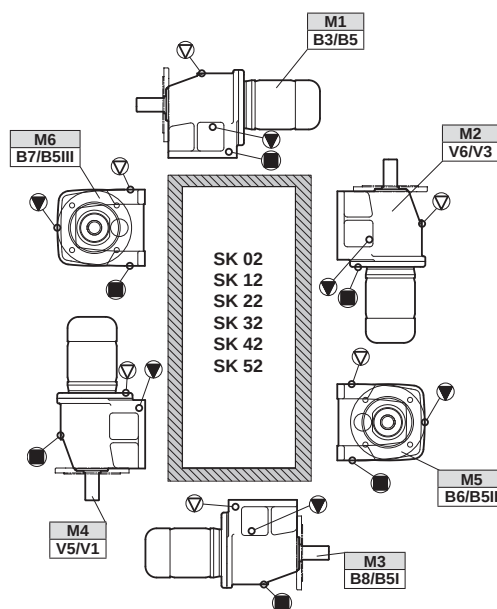
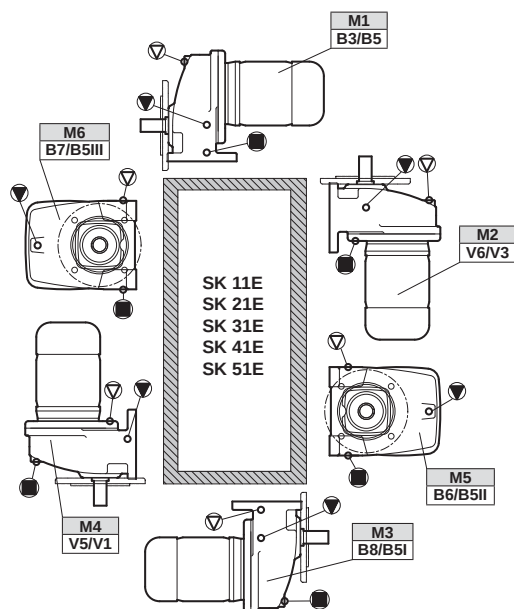
HELICAL IN-LINE OIL PLUG & VENT LOCATIONS



U14100 - 1 of 1

Oil plug connections

Prior to commissioning the reducer, check the oil-fill level using the reducer's oil-level plug and drain or add additional oil as needed. The minimum acceptable oil level is 0.15 in (4mm) below the oil level hole. **For mounting orientations other than shown please consult NORD Gear. New plug locations may be required.**



* Oil level for 3 stage gear units.



DRIVESYSTEMS

CLINCHER™ OIL PLUG & VENT LOCATIONS

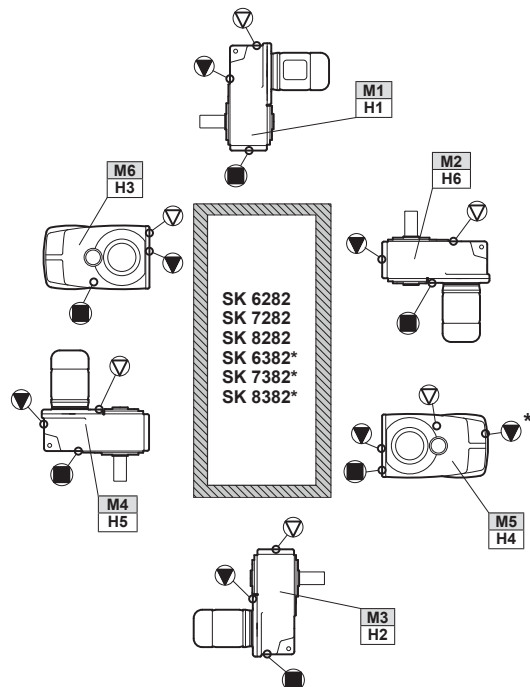
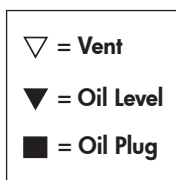
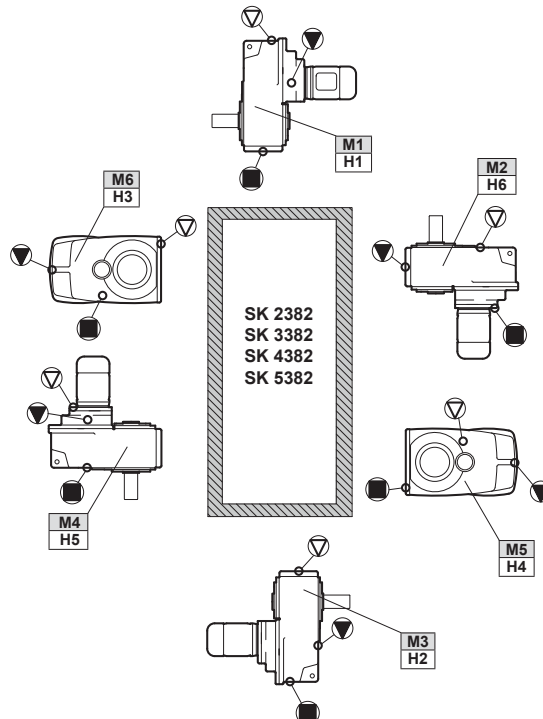
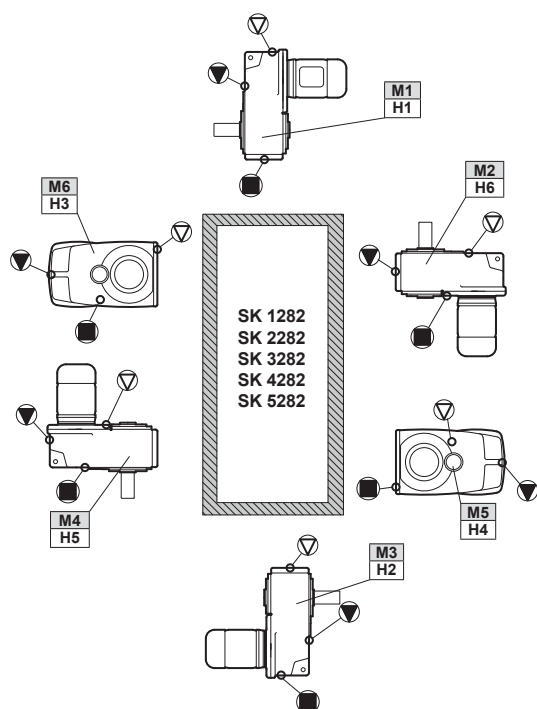


RETAIN FOR FUTURE USE

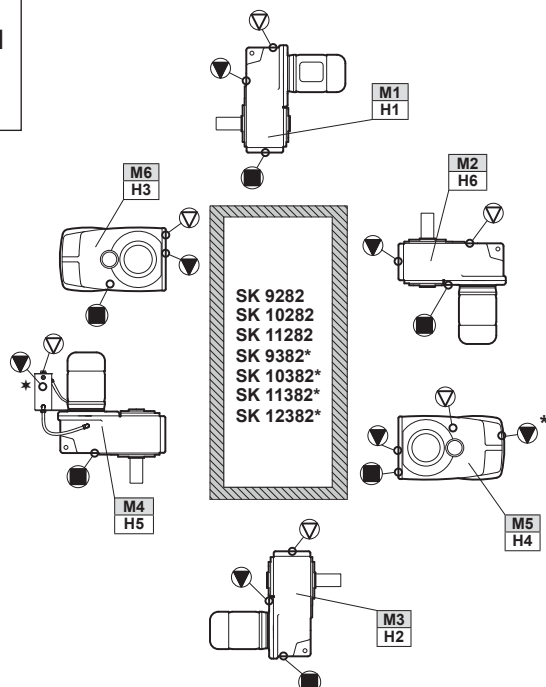
U14200 - 1 of 1

Oil plug connections

Prior to commissioning the reducer, check the oil-fill level using the reducer's oil-level plug and drain or add additional oil as needed. The minimum acceptable oil level is 0.15 in (4mm) below the oil level hole. **For mounting orientations other than shown please consult NORD Gear. New plug locations may be required.**



* Oil level for 3 stage gear units



* Oil level for 3 stage gear units

* Oil fill level should be verified using the dip stick located in the oil tank for the M4/H5 position.

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DRIVESYSTEMS

92 SERIES HELICAL-BEVEL OIL PLUG & VENT LOCATIONS



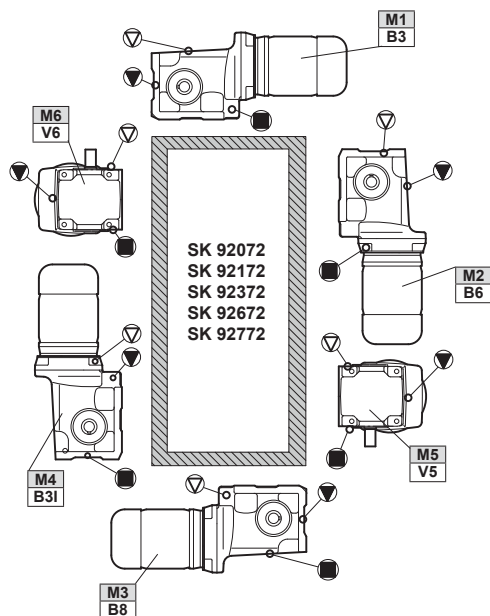
U14300 - 1 of 1

RETAIN FOR FUTURE USE

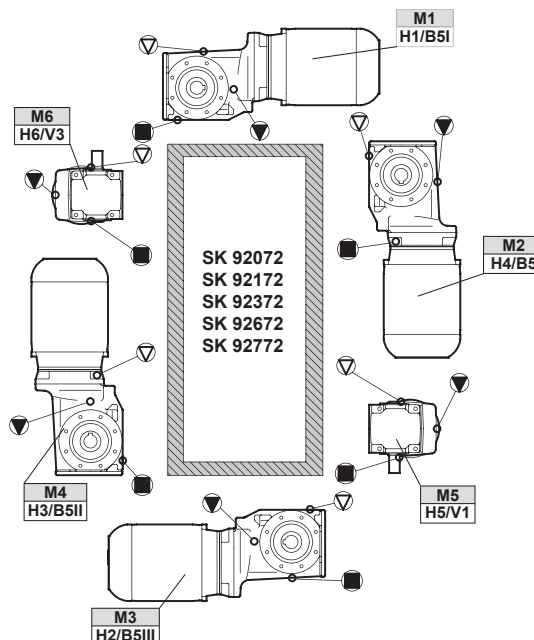
Oil plug connections

Prior to commissioning the reducer, check the oil-fill level using the reducer's oil-level plug and drain or add additional oil as needed. The minimum acceptable oil level is 0.15 in (4mm) below the oil level hole. **For mounting orientations other than shown please consult NORD Gear. New plug locations may be required.**

Foot Mount



Shaft/Flange Mount

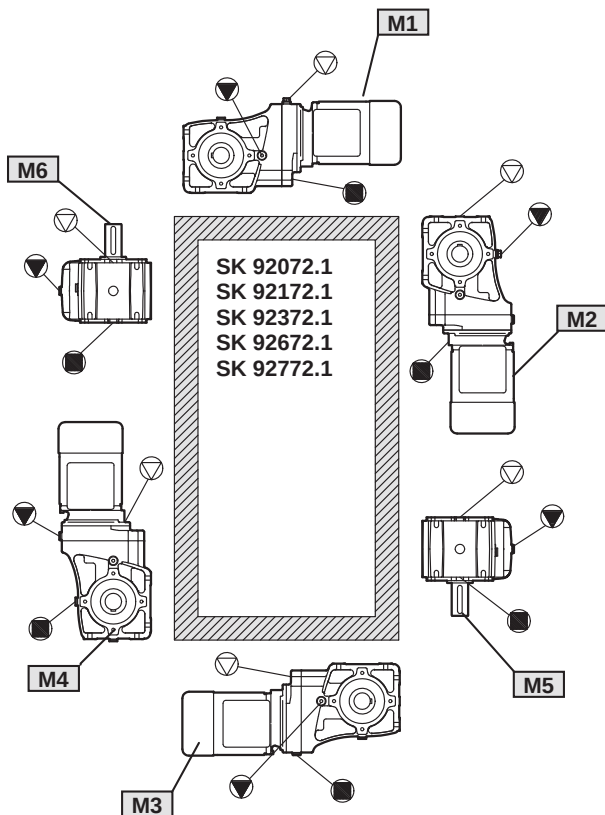


- ▽ = Vent
- ▼ = Oil Level
- = Oil Plug

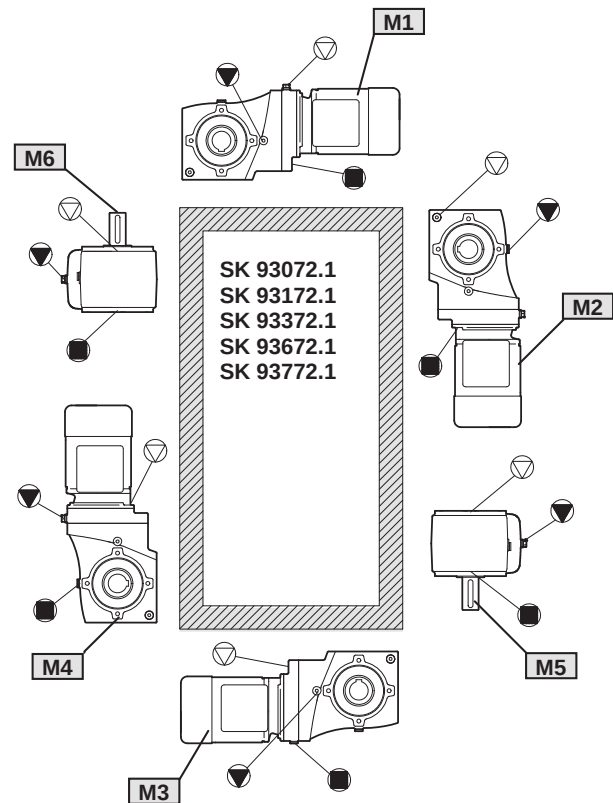
Oil plug locations

Prior to commissioning the reducer, check the oil-fill level using the reducer's oil-level plug and drain or add additional oil as needed. *For mounting orientations other than shown please consult NORD Gear. New plug locations may be required.*

92.1 Series



93.1 Series



▽ = Vent
▼ = Oil Level
■ = Oil Plug



90.1 HELICAL-BEVEL OIL PLUG & VENT LOCATIONS



DRIVESYSTEMS

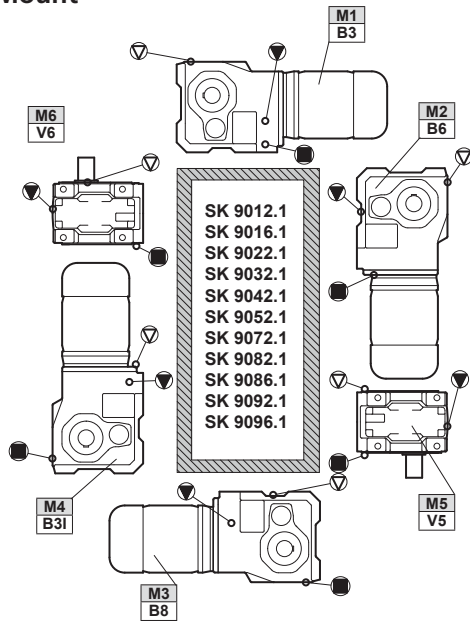
RETAIN FOR FUTURE USE

U14400 - 1 of 1

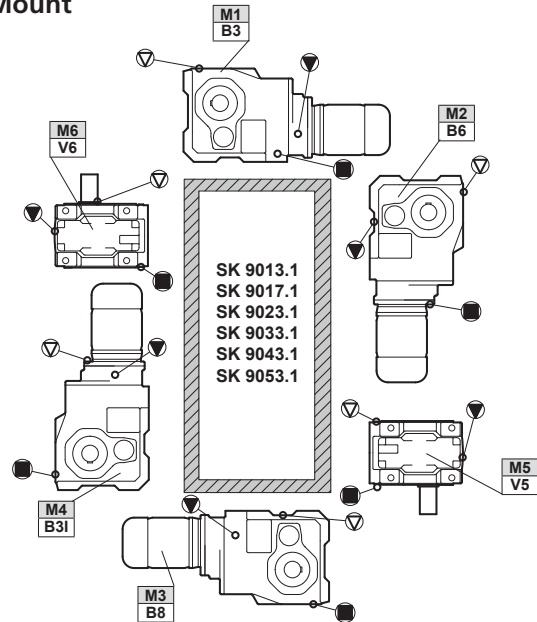
Oil plug connections

Prior to commissioning the reducer, check the oil-fill level using the reducer's oil-level plug and drain or add additional oil as needed. The minimum acceptable oil level is 0.15 in (4mm) below the oil level hole. **For mounting orientations other than shown please consult NORD Gear. New plug locations may be required.**

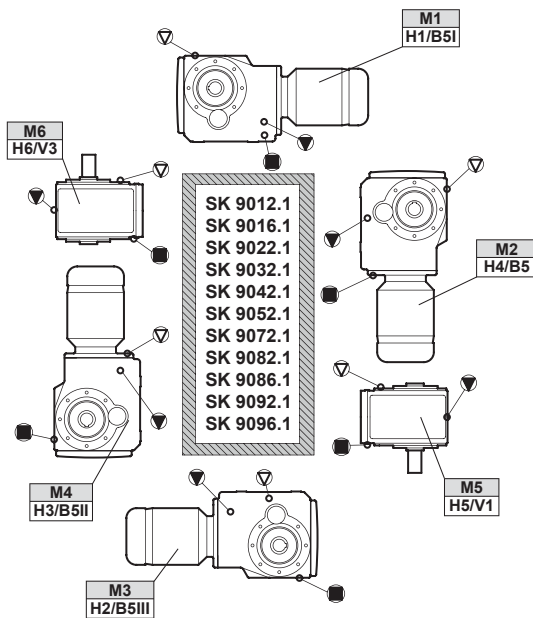
Foot Mount



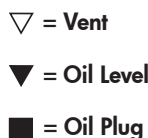
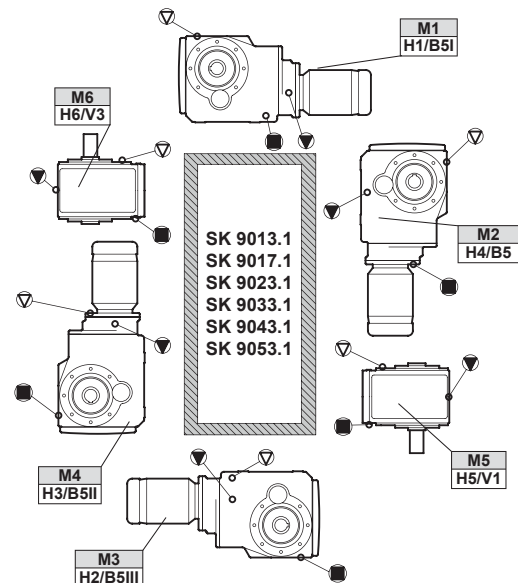
Foot Mount



Shaft/Flange Mount



Shaft/Flange Mount



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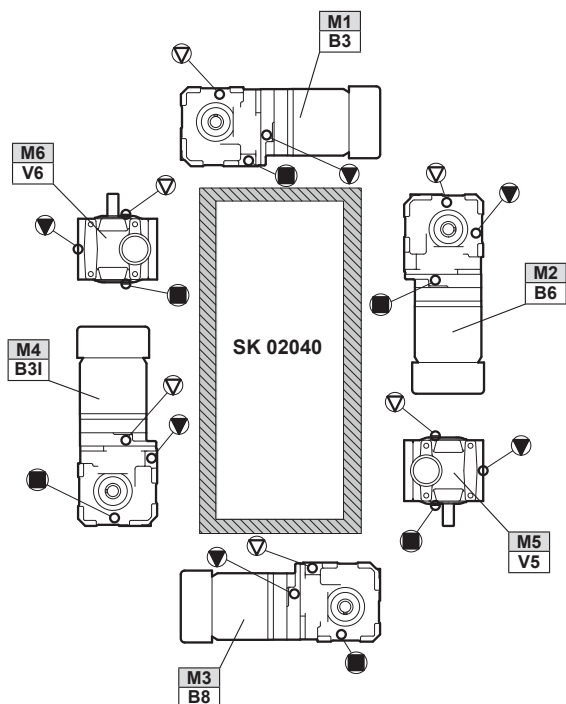
HELICAL-WORM OIL PLUG & VENT LOCATIONS



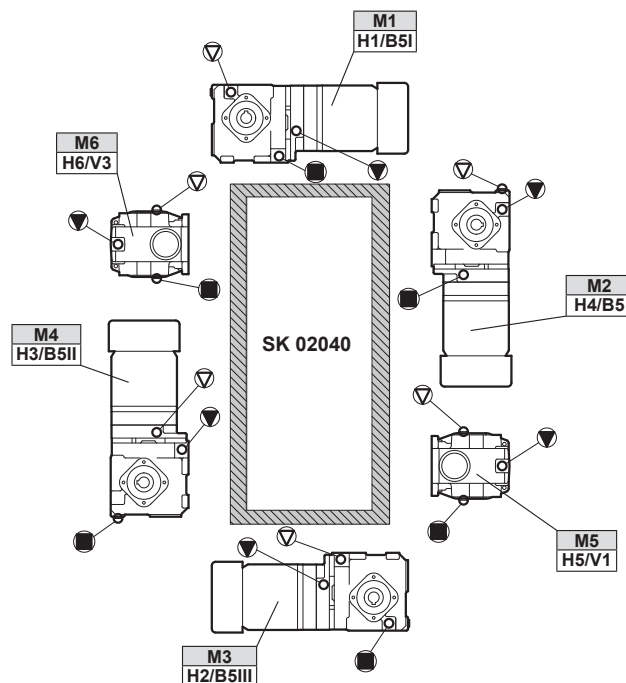
Oil plug connections

Prior to commissioning the reducer, check the oil-fill level using the reducer's oil-level plug and drain or add additional oil as needed. The minimum acceptable oil level is 0.15 in (4mm) below the oil level hole. **For mounting orientations other than shown please consult NORD Gear. New plug locations may be required.**

Foot Mount



Shaft/Flange Mount



▽ = Vent
▼ = Oil Level
■ = Oil Plug



DRIVESYSTEMS

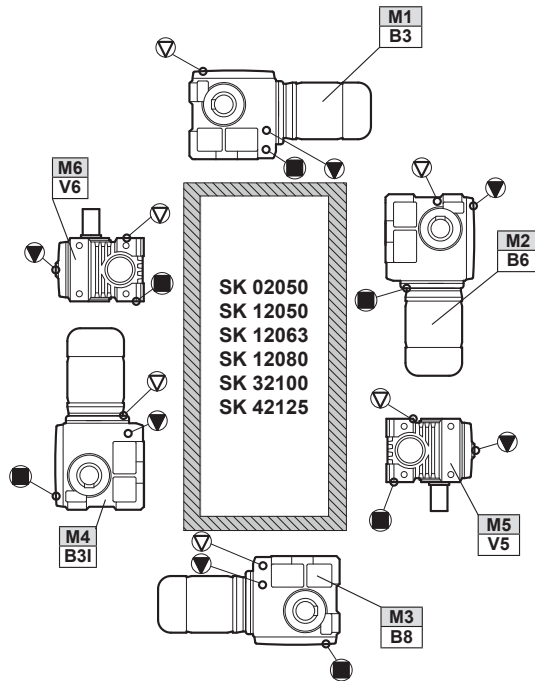
HELICAL-WORM OIL PLUG & VENT LOCATIONS

RETAIN FOR FUTURE USE

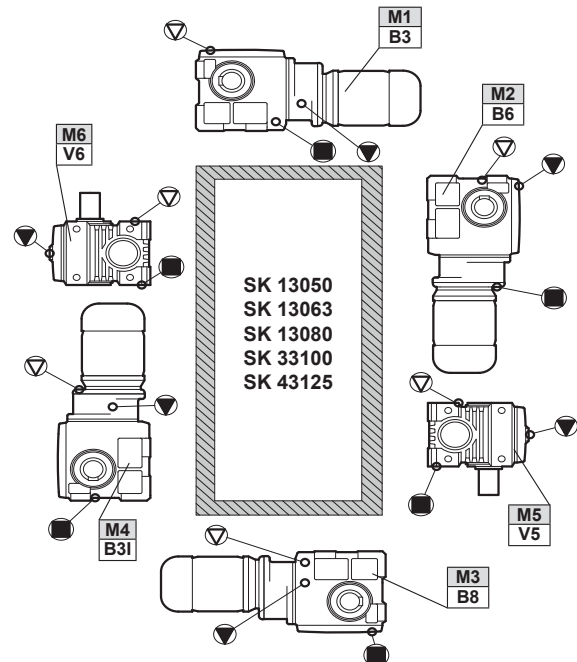


U14500 - 2 of 2

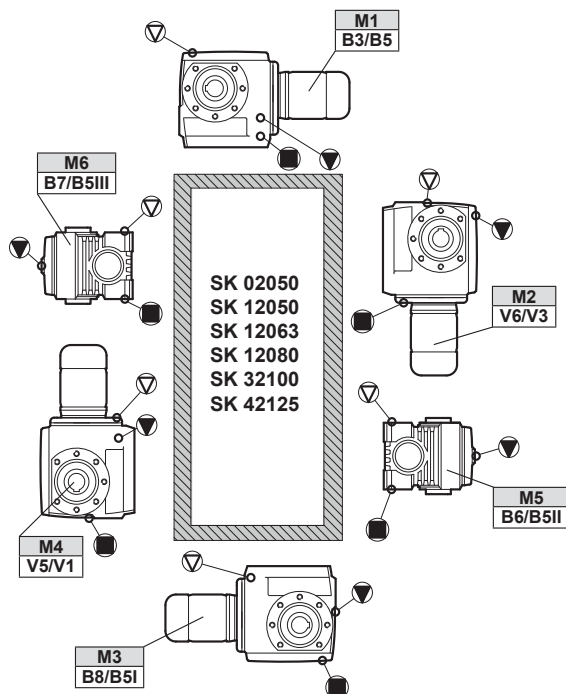
Foot Mount



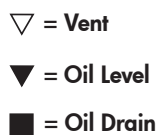
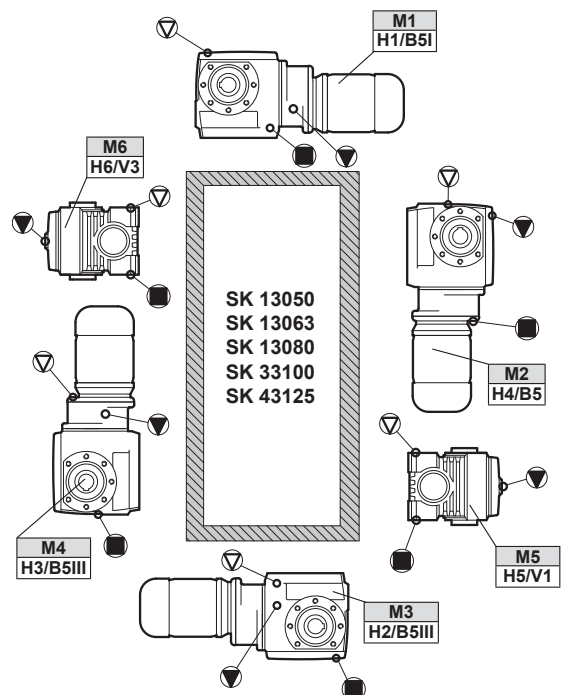
Foot Mount



Shaft/Flange Mount



Shaft/Flange Mount



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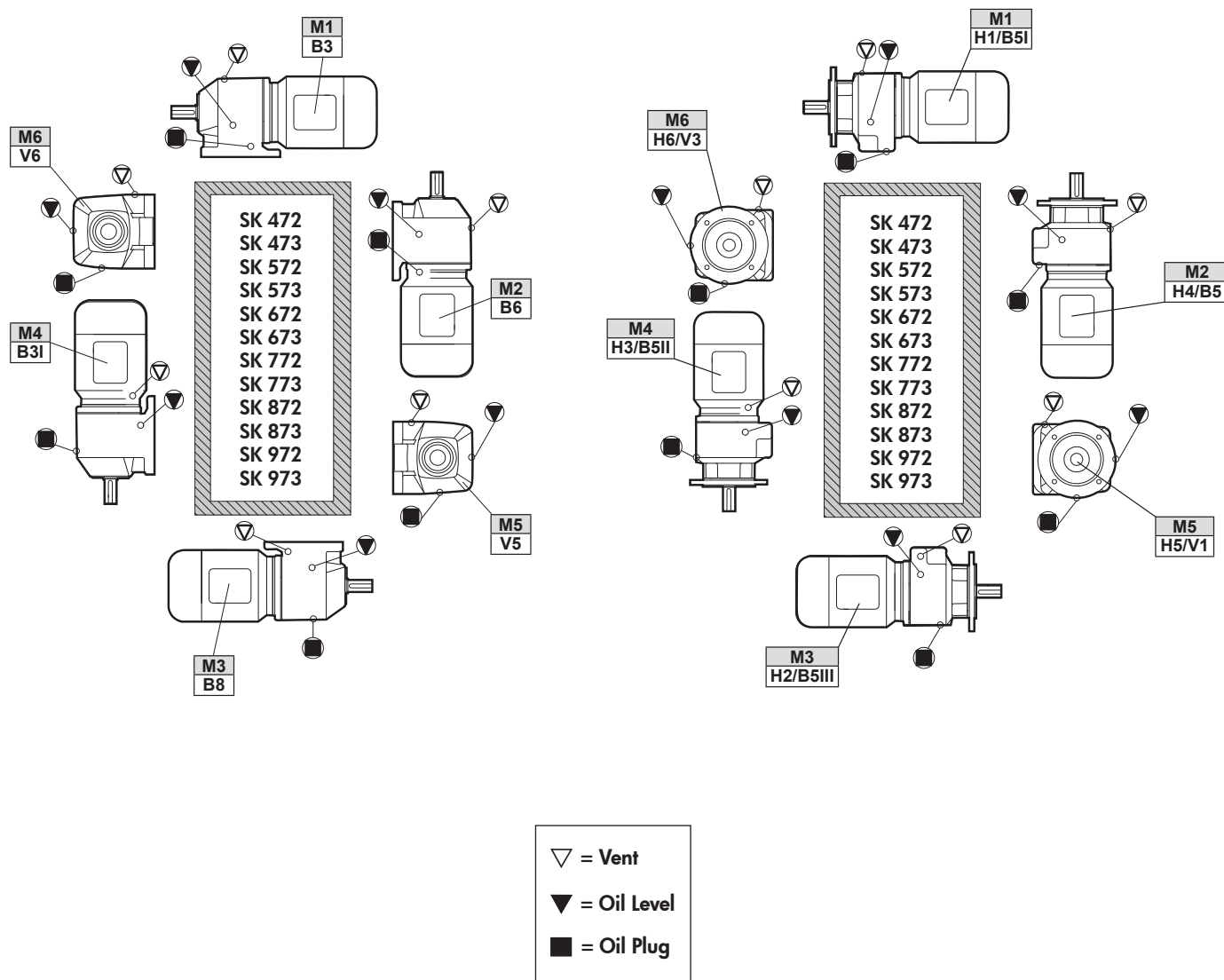
NORDBLOC® OIL PLUG & VENT LOCATIONS



U14600 - 1 of 1

Oil plug connections

Prior to commissioning the reducer, check the oil-fill level using the reducer's oil-level plug and drain or add additional oil as needed. The minimum acceptable oil level is 0.15 in (4mm) below the oil level hole. **For mounting orientations other than shown please consult NORD Gear. New plug locations may be required.**





NORDBLOC®.1 OIL PLUG & VENT LOCATIONS



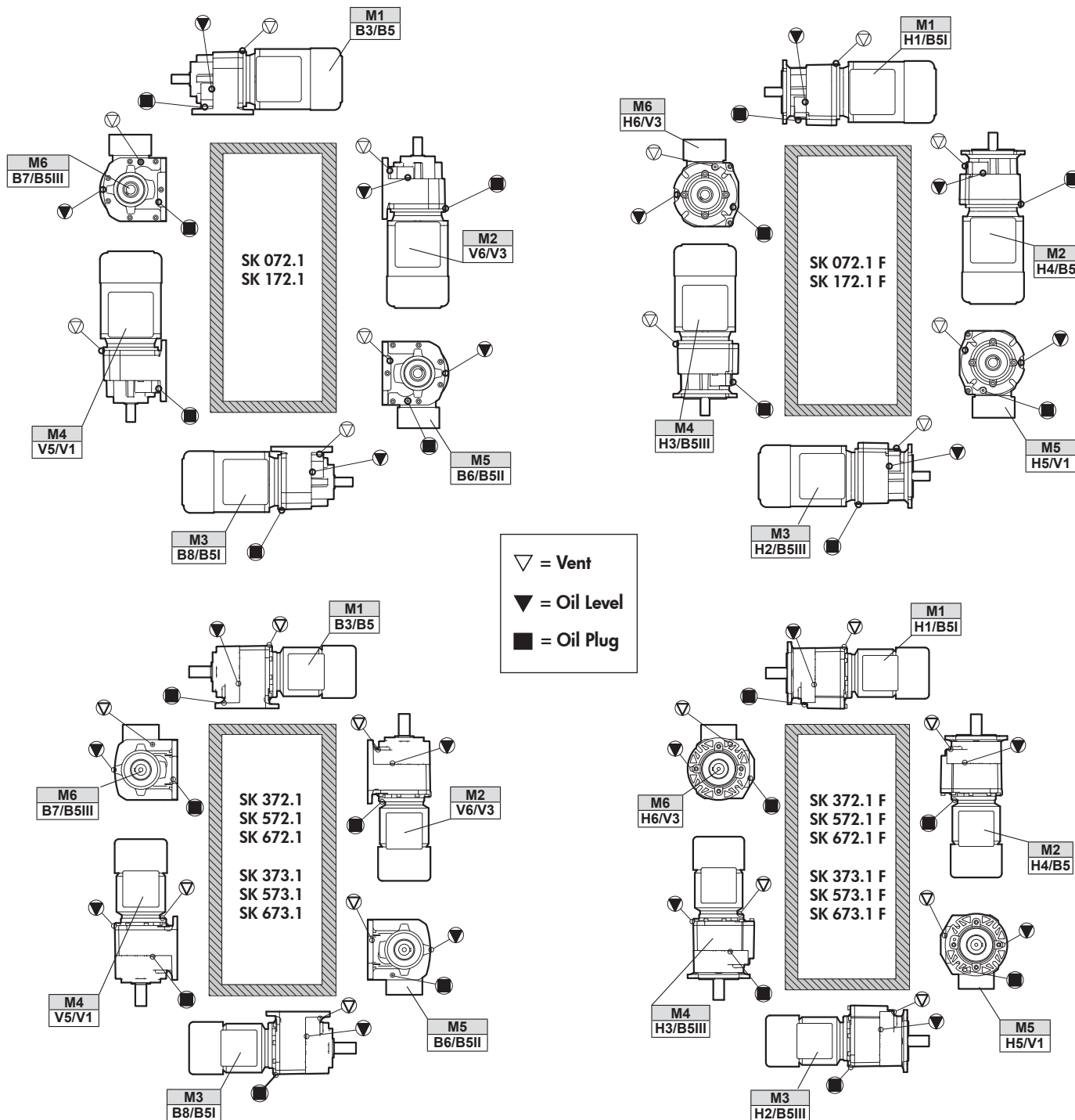
DRIVESYSTEMS

RETAIN FOR FUTURE USE

U14700 - 1 of 2

Oil plug connections

Prior to commissioning the reducer, check the oil-fill level using the reducer's oil-level plug and drain or add additional oil as needed. The minimum acceptable oil level is 0.15 in (4mm) below the oil level hole. **For mounting orientations other than shown please consult NORD Gear. New plug locations may be required.**





NORDBLOC®.1 OIL PLUG & VENT LOCATIONS



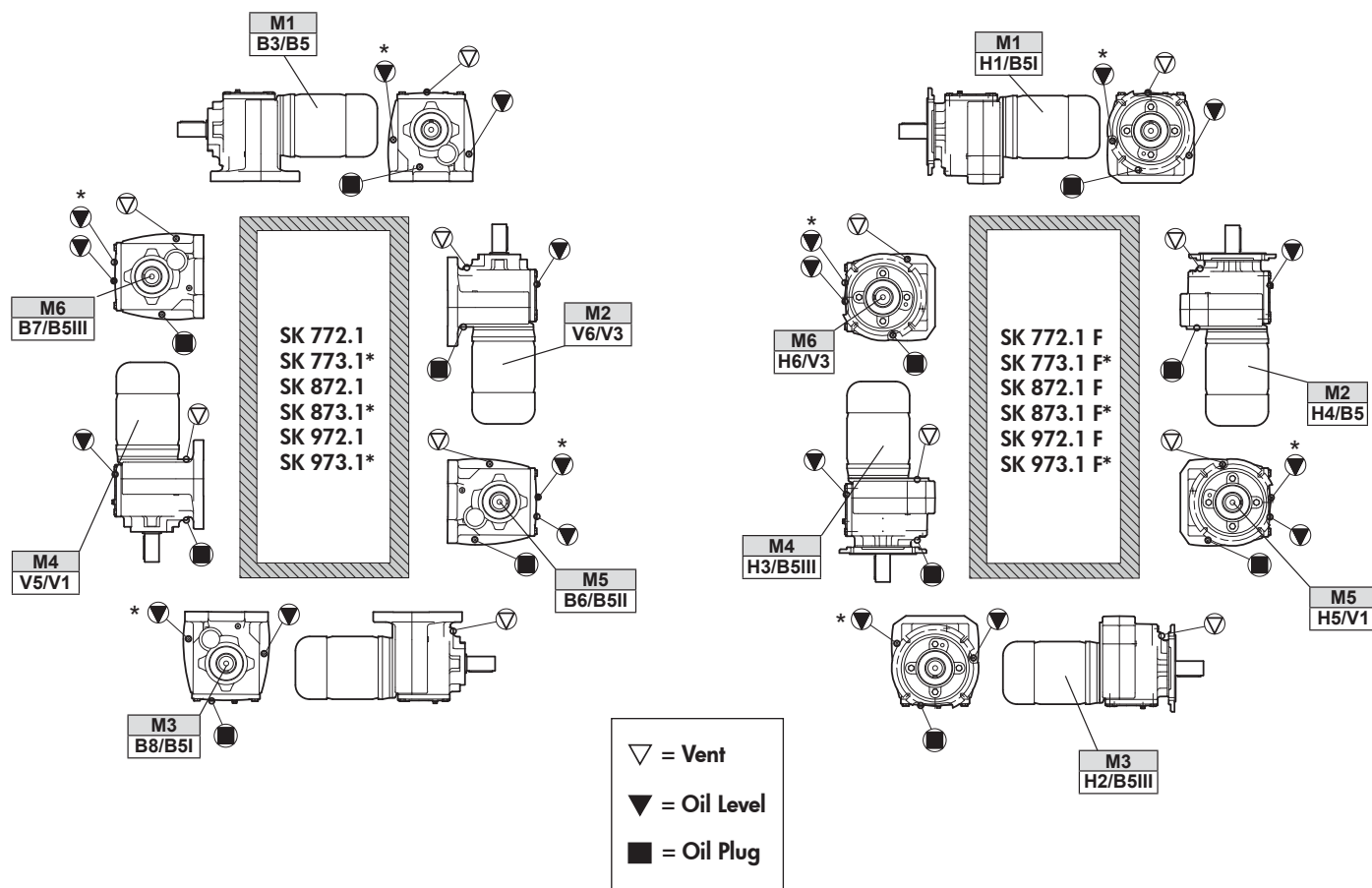
DRIVESYSTEMS

RETAIN FOR FUTURE USE

U14700 - 2 of 2

Oil plug connections

Prior to commissioning the reducer, check the oil-fill level using the reducer's oil-level plug and drain or add additional oil as needed. The minimum acceptable oil level is 0.15 in (4mm) below the oil level hole. **For mounting orientations other than shown please consult NORD Gear. New plug locations may be required.**



* Oil fill level for three stage gear units.

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MINICASE® (SMI/SMID) WORM GEAR OIL PLUG & VENT LOCATIONS



DRIVESYSTEMS

RETAIN FOR FUTURE USE

U14750 - 1 of 1

Oil Plug and Vent Locations

MINICASE® (SMI/SMID) reducers and gear motors are fitted with oil plugs to allow for optional venting of the gear unit. NORD can supply either an AUTOVENT™ (valve-type) vent or an open vent. Vent options are available for most gear unit sizes and positions as indicated by the table below. For more complete details on vent options and when to consider reducer venting, see user manual U10800.

Vent Compatibility by Unit Size & Mounting Position

	M1	M2	M3	M4	M5	M6
SMI/SMID 31		✓	✓	✓		✓
SMI/SMID 40		✓	✓	✓		✓
SMI/SMID 50	✓	✓	✓	✓		✓
SMI/SMID 63	✓	✓	✓	✓	✓	✓
SMI/SMID 75	✓	✓	✓	✓		✓

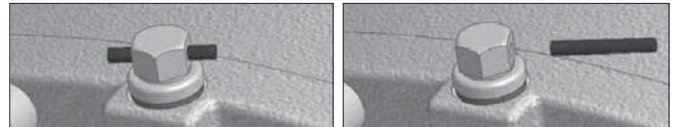
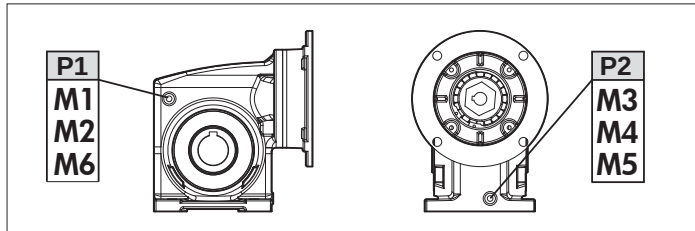
Continuous Input speed ≤ 1800 rpm

Vent Kit Part Numbers

Type	Transportation Seal	Installation	Part Number
AUTOVENT™	Included	Factory or Field site	66093510
Open Vent	None	Field Only	60693500
Open Vent	Included	Factory or Field site	22008004 (vent) 25308120 (gasket)

Unless noted by a separate part number, vent kits include the housing gasket

Optional Vent Locations

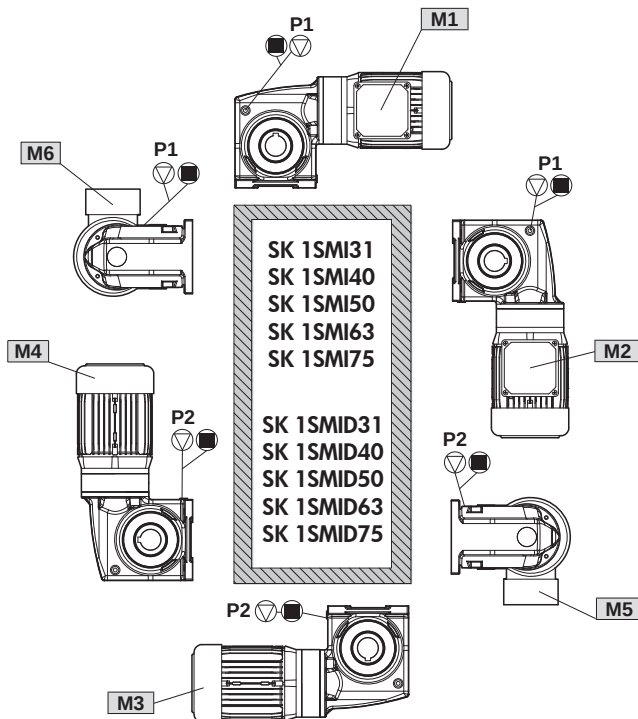


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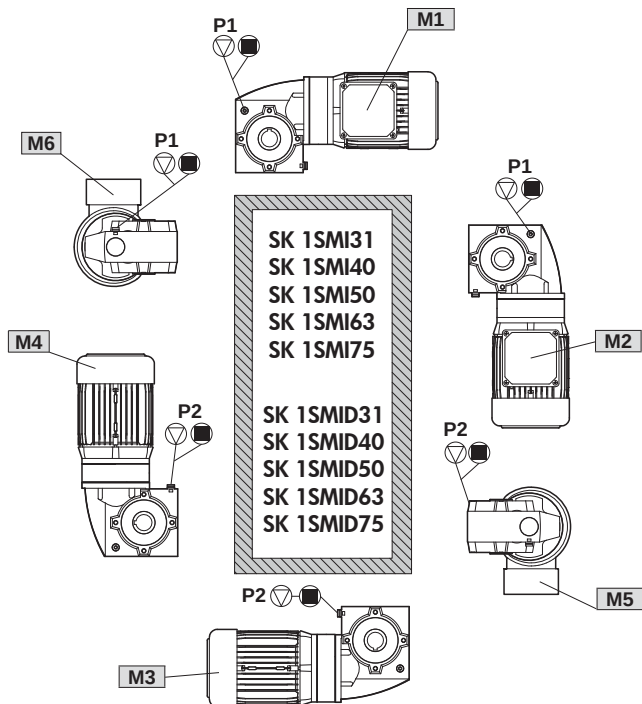


To prevent build-up of excessive pressure, sealed vents must be activated as shown prior to gear unit start-up.

MINICASE® (SMI/SMID) Foot Housing



MINICASE® (SMI/SMID) Flange Housing



▽ = Vent

■ = Oil Plug

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FLEXBLOC™ (SI/SID SERIES) WORM GEAR OIL PLUG & VENT LOCATIONS



DRIVESYSTEMS

RETAIN FOR FUTURE USE

U14800 - 1 of 1

Vent locations

FLEXBLOC™ (SI/SID SERIES) reducers are fitted with oil plugs to allow for optional venting of the gear unit. NORD can supply either an AUTOVENT™ (valve-type) vent or an open vent. Vent options are available for most gear unit sizes and positions as indicated by the table below. For more complete details on vent options and when to consider reducer venting, see user manual U10810.

Vent Compatibility by Unit Size & Mounting Position

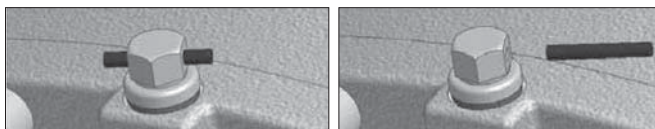
	M1	M2	M3	M4	M5	M6
SI/SID 31		✓	✓	✓		✓
SI/SID 40		✓	✓	✓		✓
SI/SID 50	✓	✓	✓	✓		✓
SI/SID 63	✓	✓	✓	✓	✓	✓
SI/SID 75	✓	✓	✓	✓		✓

Continuous Input speed ≤ 1800 rpm

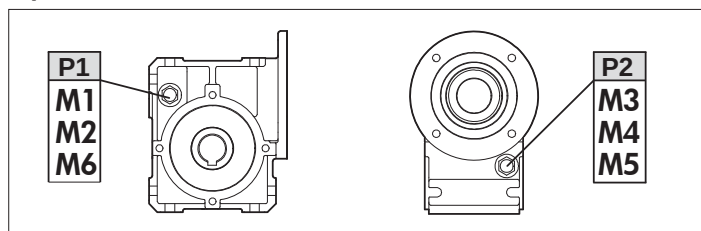
Vent Kit Part Numbers

Type	Transportation Seal	Installation	Part Number
AUTOVENT™	Included	Factory or Field site	66093510
Open Vent	None	Field Only	60693500
Open Vent	Included	Factory or Field site	22008004 (vent) 25308120 (gasket)

Unless noted by a separate part number, vent kits include the housing gasket



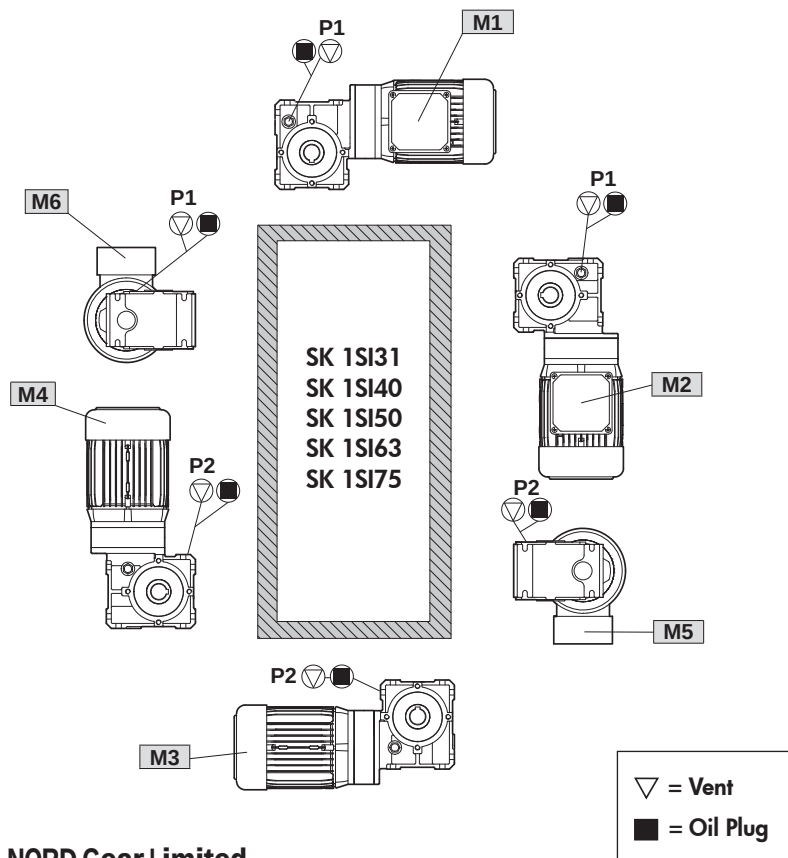
Optional Vent Locations



WARNING

To prevent build-up of excessive pressure, sealed vents must be activated as shown prior to gear unit start-up.

FLEXBLOC™ (SI Series) Universal Housing



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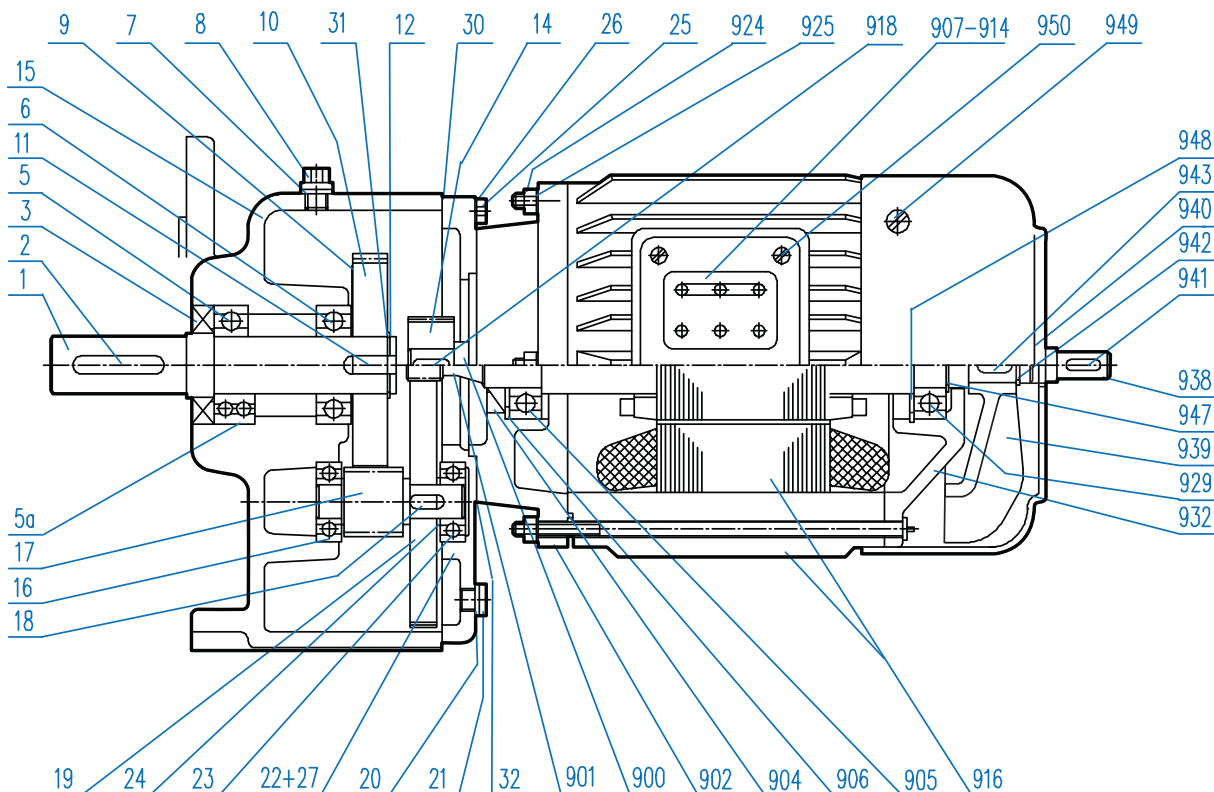
DRIVESYSTEMS

STANDARD IN-LINE PARTS LIST DRAWINGS

RETAIN FOR FUTURE USE



U15000 - 1 of 4



SK 0 - SK 33 Helical Gear Unit

1	Output shaft	21	Plug	910	Terminal box cover gasket
2	Key	22	Gear case cover	911	Terminal board
3	Shaft seal	23	Pinion shaft bearing	914	Cable entry gland
5	Output shaft bearing, normal	24	Shim	916	Stator case
5A	Output shaft bearing, reinforced	25	Hexagon bolt	918	Key
6	Output shaft bearing	26	Washer	924	Collar bolt
7	Seal	27	Spiral pin	925	Hexagonal nut
8	Vent screw	30	Seal	929	Bearing B
9	Shim	31	Shim	932	Endshield B
10	Driven gear	32	Seal	938	Second motor shaft end*
11	Key	900	Rotor with shaft, plain	939	Fan
12	Circlip	901	Rotor with shaft, gearcut	940	Fan cover
14	Driving pinion	902	End shield A	941	Key
15	Gear case	904	Shaft seal	942	Circlip
16	Pinion shaft, bearing	905	Bearing A	943	Key
17	Driven pinion	906	Bearing shim	947	Circlip
18	Key	907	Terminal box frame	948	Circlip
19	Driving gear	908	Terminal box cover	949	Oval flat-head bolt
20	Seal	909	Terminal box frame gasket	950	Oval flat-head bolt

* Optional Part

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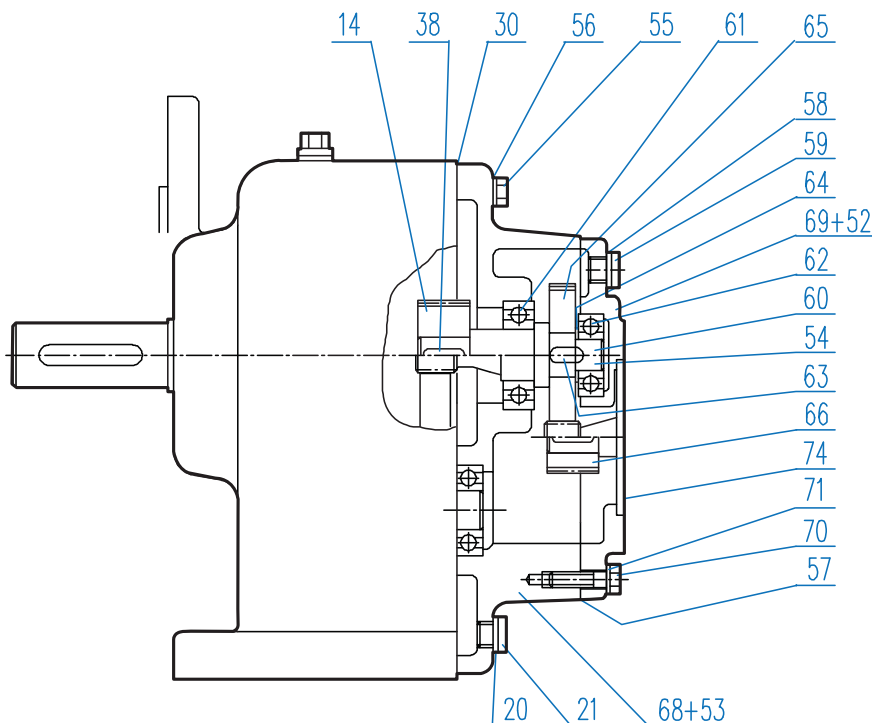
DRIVESYSTEMS

STANDARD IN-LINE PARTS LIST DRAWINGS

RETAIN FOR FUTURE USE



U15000 - 2 of 4



SK 010 - SK 330 Third Stage Reduction Gear

14	Driving pinion	55	Hexagon bolt	64	Shim
20	Seal	56	Washer	65	Driving gear
21	Plug	57	Seal	66	Driving pinion
27	Spiral pin	58	Seal	68	Gear case 3rd.-red.
30	Seal	59	Plug	69	Gear case cover
38	Key	60	Intermediate shaft, plain	70	Hexagon bolt
52	Spiral pin	61	Grooved ball bearing	71	Washer
53	Spiral pin	62	Grooved ball bearing	74	Seal
54	Intermediate shaft, gearcut	63	Key		

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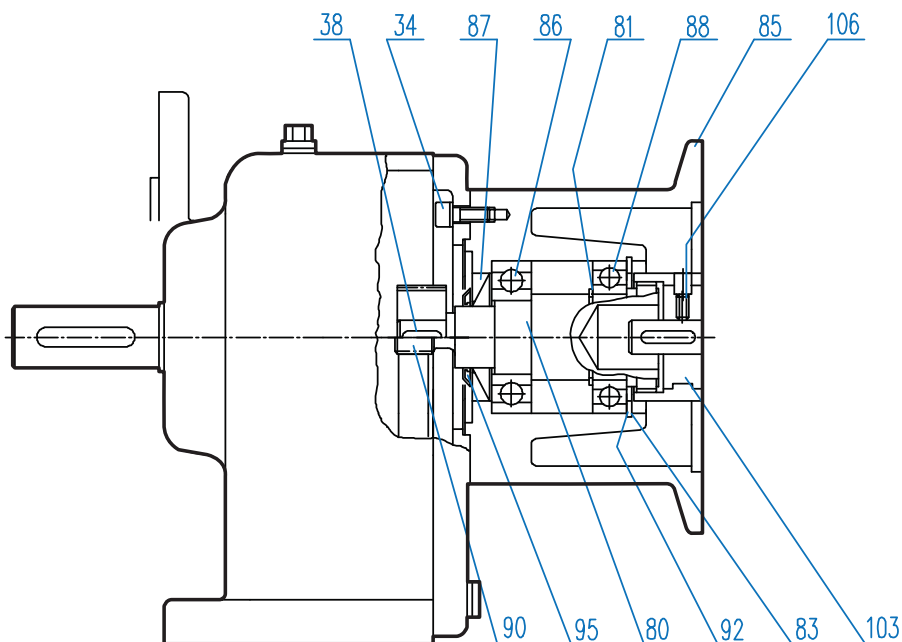
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STANDARD IN-LINE PARTS LIST DRAWINGS

RETAIN FOR FUTURE USE

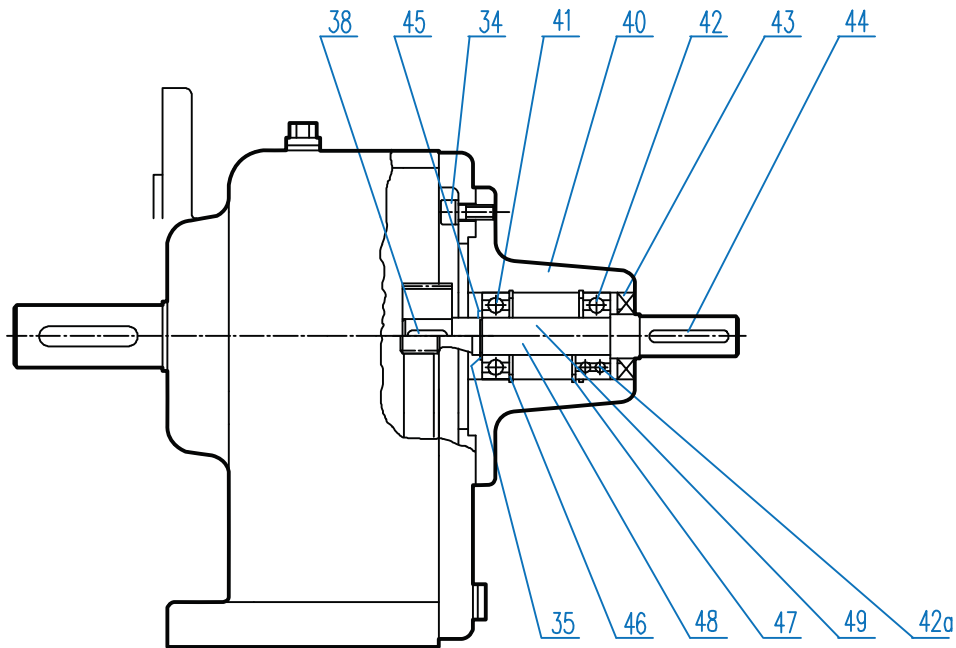


SK 0 - SK 330 IEC Input

34	Socket head bolt	85	IEC adaptor	92	Shim
38	Key	86	Input shaft bearing	103	Coupling
80	Input shaft	87	Shaft seal	106	Set screw
81	Circlip	88	Input shaft bearing		
83	Circlip	90	Pinion shaft		

STANDARD IN-LINE PARTS LIST DRAWINGS

RETAIN FOR FUTURE USE

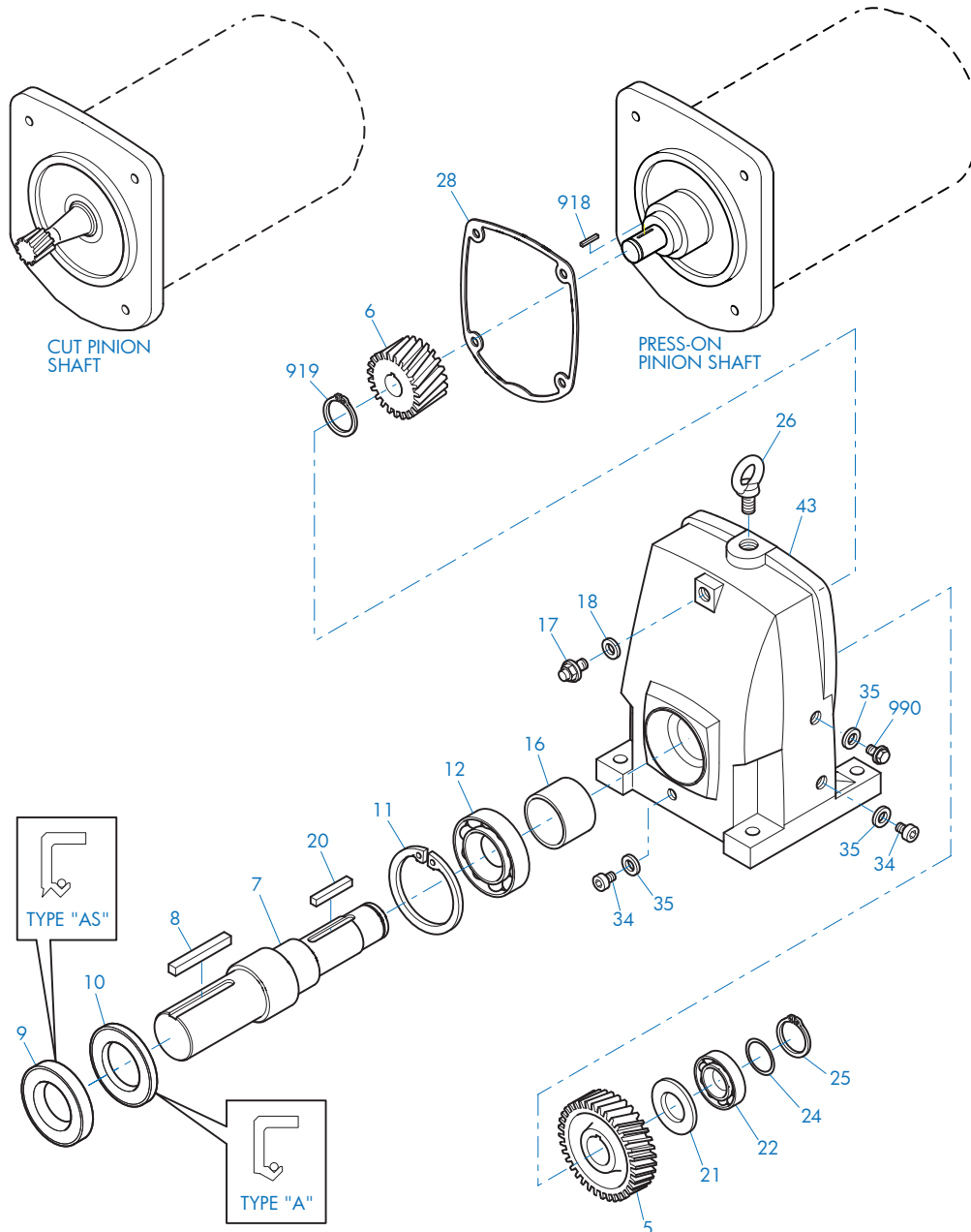


SK 0 - SK 330 Solid Shaft Input (W)

34	Socket head bolt	42	Grooved ball bearing, normal	46	Circlip
35	Shim	42A	Grooved ball bearing, reinforced	47	Circlip
38	Key	43	Shaft seal	48	Input shaft, gearcut
40	Input bearing housing	44	Key	49	input shaft, plain
41	Grooved ball bearing	45	Circlip		

HELICAL IN-LINE PARTS LIST DRAWINGS

RETAIN FOR FUTURE USE



SK 11E - SK 51E Foot Mount

5	Gear	16	Spacer	26	Flanged Eye Bolt
6	Pinion	17	Vent Plug	28	Gasket
7	Output Shaft	18	Seal	34	Drain Plug
8	Key	20	Key	35	Gasket
9	Oil Seal	21	Spacer	43	Gearcase
10	Oil Seal	22	Anti-Friction Bearing	918	Key
11	Snap Ring	24	Shim	919	Snap Ring
12	Anti-Friction Bearing	25	Snap Ring	990	Oil Level Plug



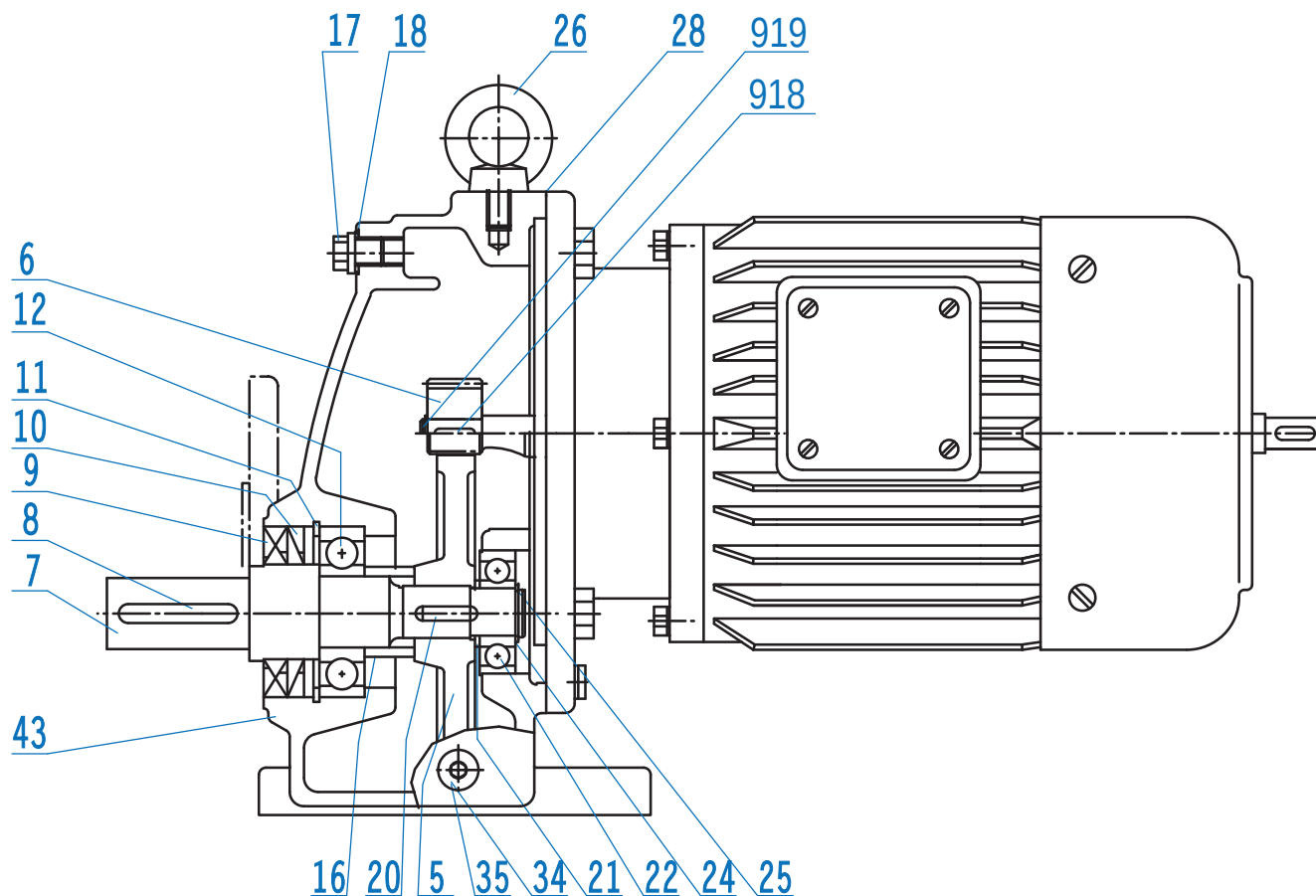
DRIVESYSTEMS

HELICAL IN-LINE PARTS LIST DRAWINGS

RETAIN FOR FUTURE USE



U15100 - 2 of 12



SK 11E - SK 51E Foot Mount

5	Gear	16	Spacer	26	Flanged Eye Bolt
6	Pinion	17	Vent Plug	28	Gasket
7	Output Shaft	18	Seal	34	Drain Plug
8	Key	20	Key	35	Gasket
9	Oil Seal	21	Spacer	43	Gearcase
10	Oil Seal	22	Anti-Friction Bearing	918	Key
11	Snap Ring	24	Shim	919	Snap Ring
12	Anti-Friction Bearing	25	Snap Ring		

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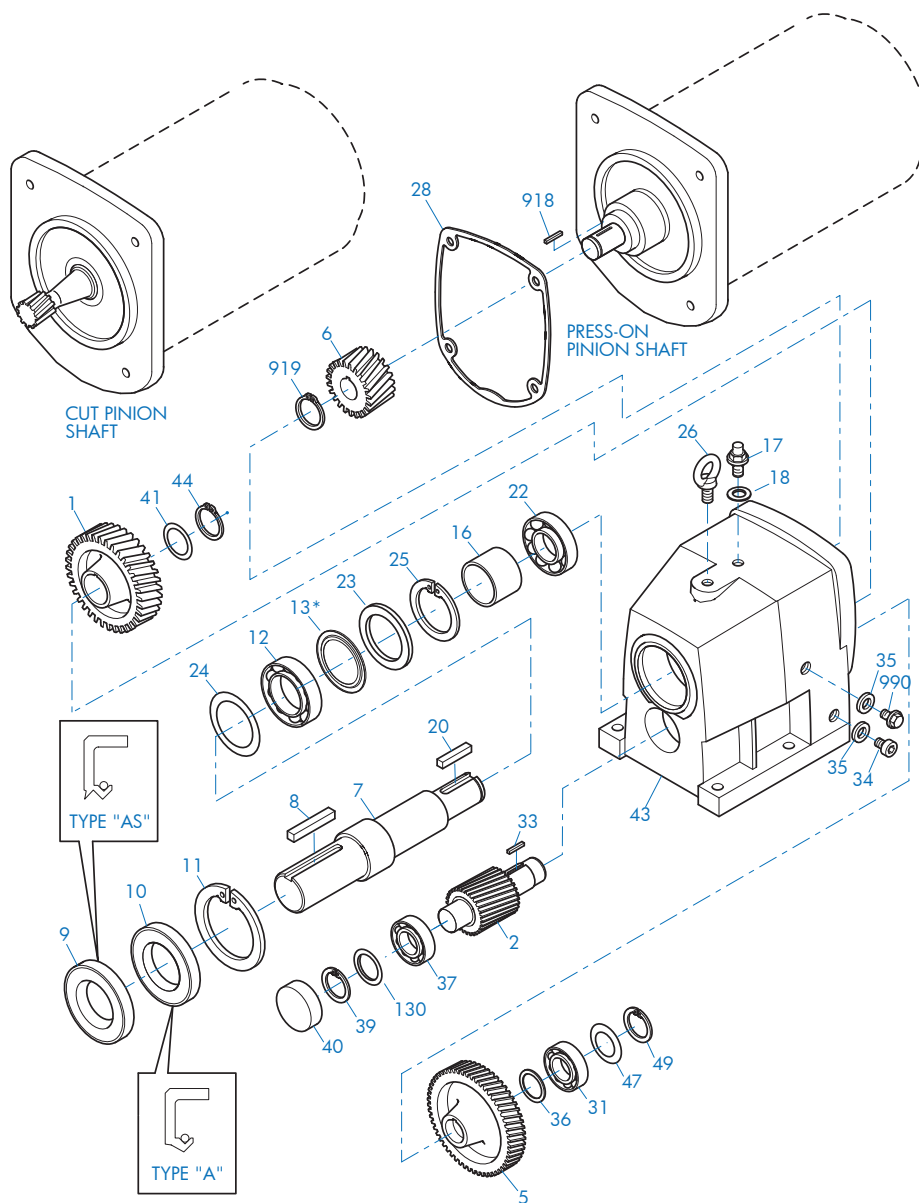
DRIVESYSTEMS

HELICAL IN-LINE PARTS LIST DRAWINGS

RETAIN FOR FUTURE USE



U15100 - 3 of 12



SK02 - SK52 Foot Mount

1	Gear	18	Seal	37	Anti-Friction Bearing
2	Pinion Shaft	20	Key	39	Snap Ring
5	Gear	22	Anti-Friction Bearing	40	Bore Plug
6	Pinion	23	Thrust Washer	41	Shim
7	Output Shaft	24	Shim	43	Gearcase
8	Key	25	Snap Ring	44	Snap Ring
9	Oil Seal	26	Flanged Eye Bolt	47	Shim
10	Oil Seal	28	Gasket	49	Snap Ring
11	Snap Ring	31	Anti-Friction Bearing	130	Shim
12	Anti-Friction Bearing	33	Key	918	Key
13	NILOS Ring*	34	Drain Plug	919	Snap Ring
16	Spacer	35	Gasket	990	Oil Level Plug
17	Vent Plug	36	Spacer		

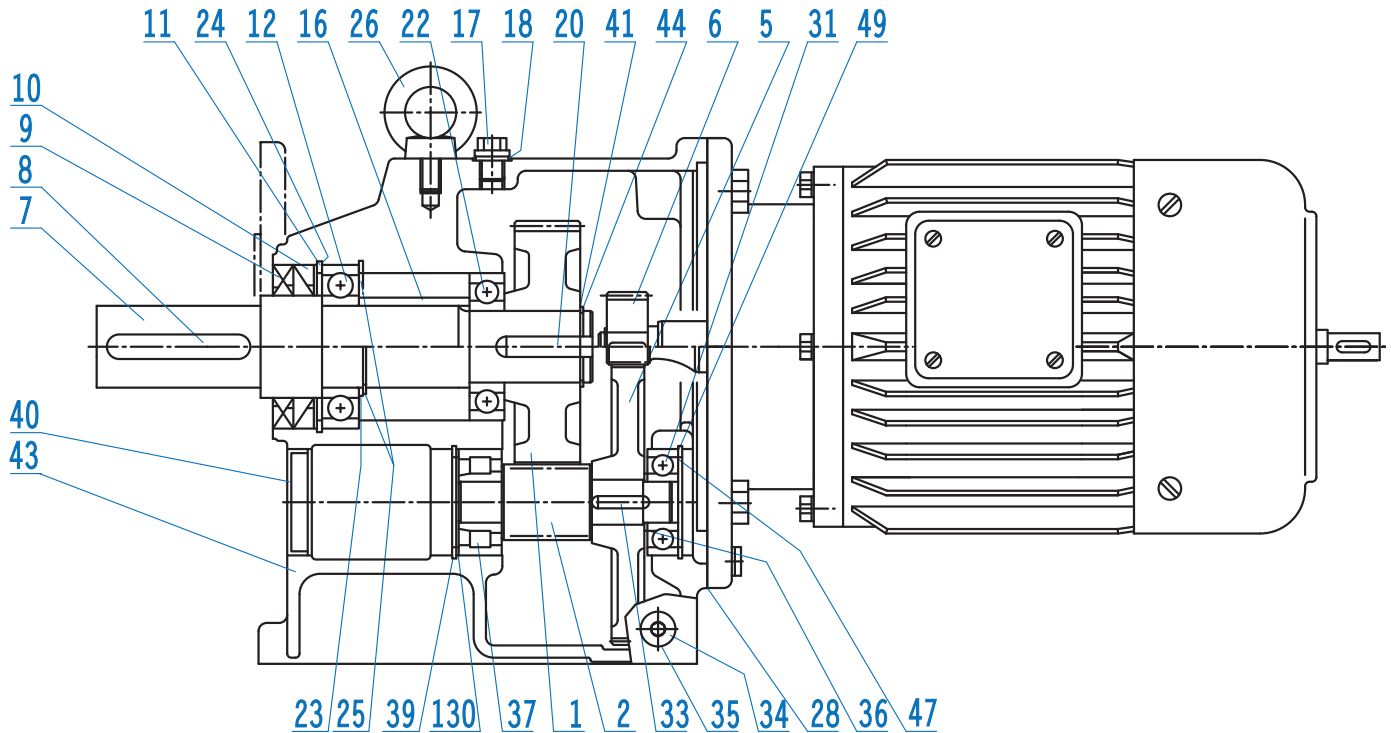
* Conditionally used part

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SK02 - SK52 Foot Mount

1 Gear	18 Seal	37 Anti-Friction Bearing
2 Pinion Shaft	20 Key	39 Snap Ring
5 Gear	22 Anti-Friction Bearing	40 Bore Plug
6 Pinion	23 Thrust Washer	41 Shim
7 Output Shaft	24 Shim	43 Gearcase
8 Key	25 Snap Ring	44 Snap Ring
9 Oil Seal	26 Flanged Eye Bolt	47 Shim
10 Oil Seal	28 Gasket	49 Snap Ring
11 Snap Ring	31 Anti-Friction Bearing	130 Shim
12 Anti-Friction Bearing	33 Key	918 Key
13 NILOS Ring*	34 Drain Plug	919 Snap Ring
16 Spacer	35 Gasket	
17 Vent Plug	36 Spacer	

* Conditionally used part

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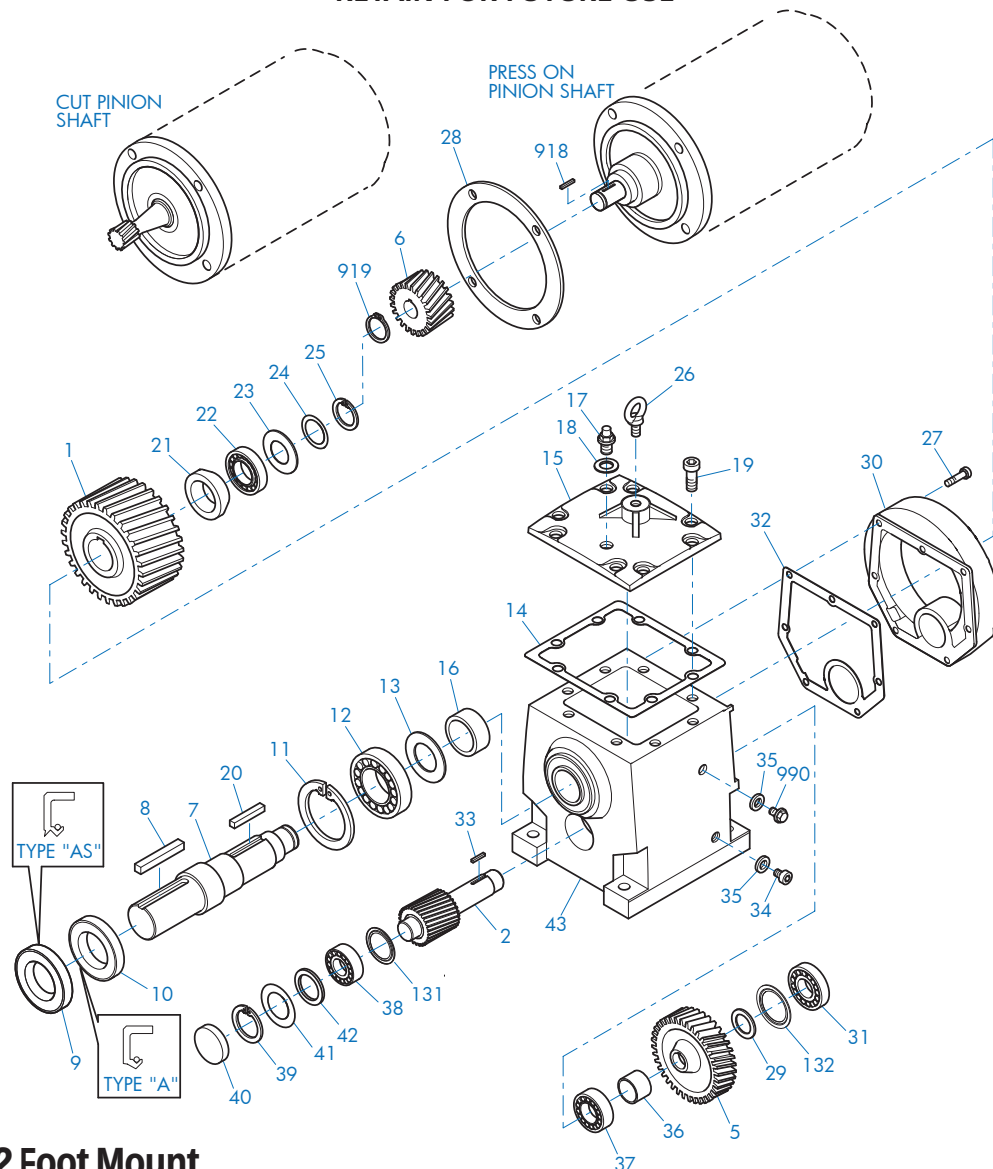
DRIVESYSTEMS

HELICAL IN-LINE PARTS LIST DRAWINGS

RETAIN FOR FUTURE USE



U15100 - 5 of 12



SK62 - SK102 Foot Mount

1	Gear	19	Bolt	35	Gasket
2	Pinion Shaft	20	Key	36	Spacer
5	Gear	21	Spacer	37	Anti-Friction Bearing
6	Pinion	22	Anti-Friction Bearing	38	Anti-Friction Bearing
7	Output Shaft	23	Thrust Washer	39	Snap Ring
8	Key	24	Shim	40	Bore Plug
9	Oil Seal	25	Snap Ring	41	Shim
10	Oil Seal	26	Flanged Eye Bolt	42	Thrust Washer
11	Snap Ring	27	Bolt	43	Gearcase
12	Anti-Friction Bearing	28	Gasket	131	NILOS Ring
13	NILOS ring	29	Spacer	132	NILOS Ring
14	Gasket	30	Input Cover	918	Key
15	Inspection Cover	31	Anti-Friction Bearing	919	Snap Ring
16	Spacer	32	Gasket	990	Oil Level Plug
17	Vent Plug	33	Key		
18	Seal	34	Drain Plug		

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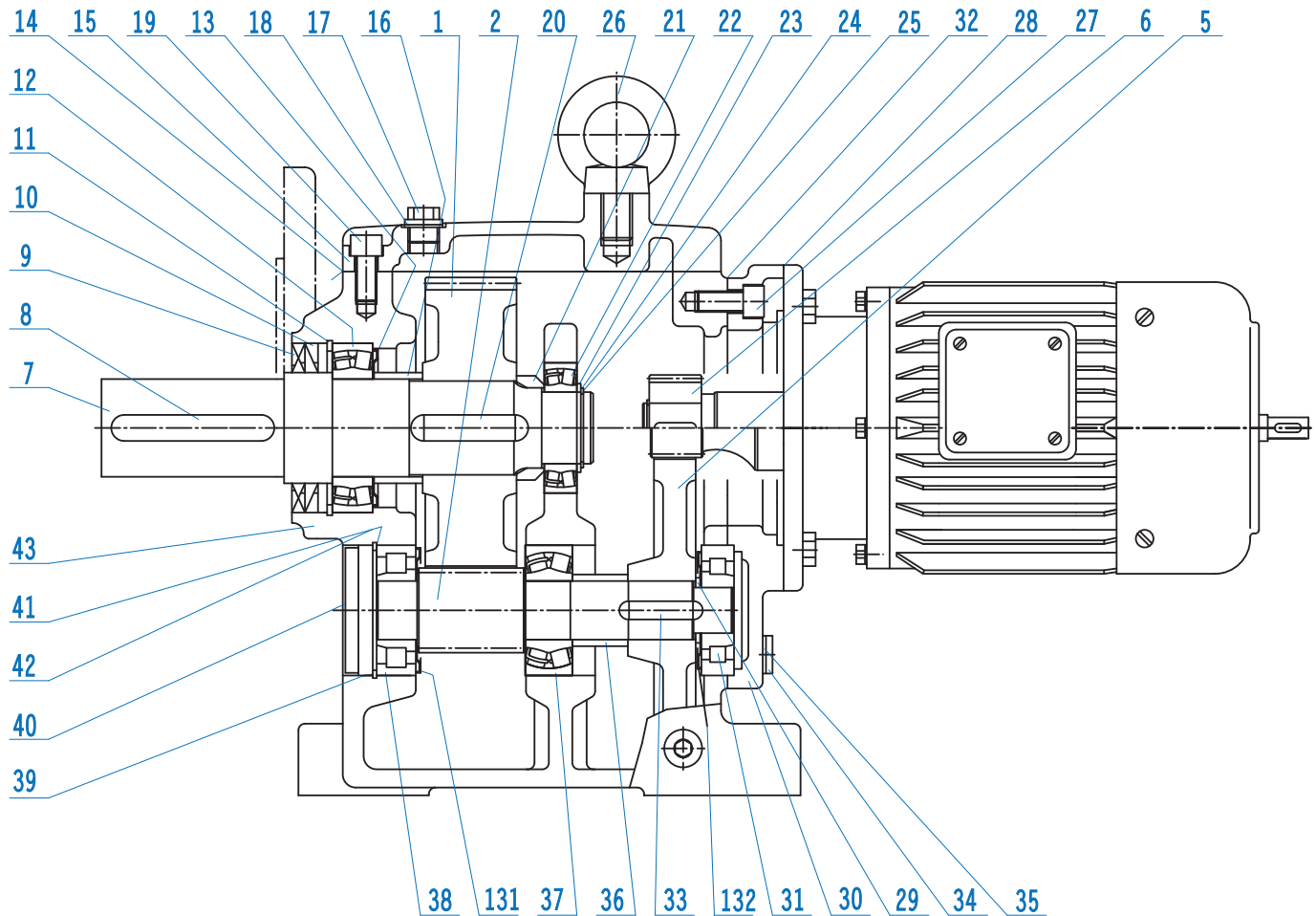
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183

HELICAL IN-LINE PARTS LIST DRAWINGS

RETAIN FOR FUTURE USE



SK62 - SK102 Foot Mount

1 Gear	18 Seal	33 Key
2 Pinion Shaft	19 Bolt	34 Drain Plug
5 Gear	20 Key	35 Gasket
6 Pinion	21 Spacer	36 Spacer
7 Output Shaft	22 Anti-Friction Bearing	37 Anti-Friction Bearing
8 Key	23 Thrust Washer	38 Anti-Friction Bearing
9 Oil Seal	24 Shim	39 Snap Ring
10 Oil Seal	25 Snap Ring	40 Bore Plug
11 Snap Ring	26 Flanged Eye Bolt	41 Shim
12 Anti-Friction Bearing	27 Bolt	42 Thrust Washer
13 NILOS ring*	28 Gasket	43 Gearcase
14 Gasket	29 Spacer	131 NILOS Ring*
15 Inspection Cover	30 Input Cover	132 NILOS Ring*
16 Spacer	31 Anti-Friction Bearing	918 Key
17 Vent Plug	32 Gasket	919 Snap Ring



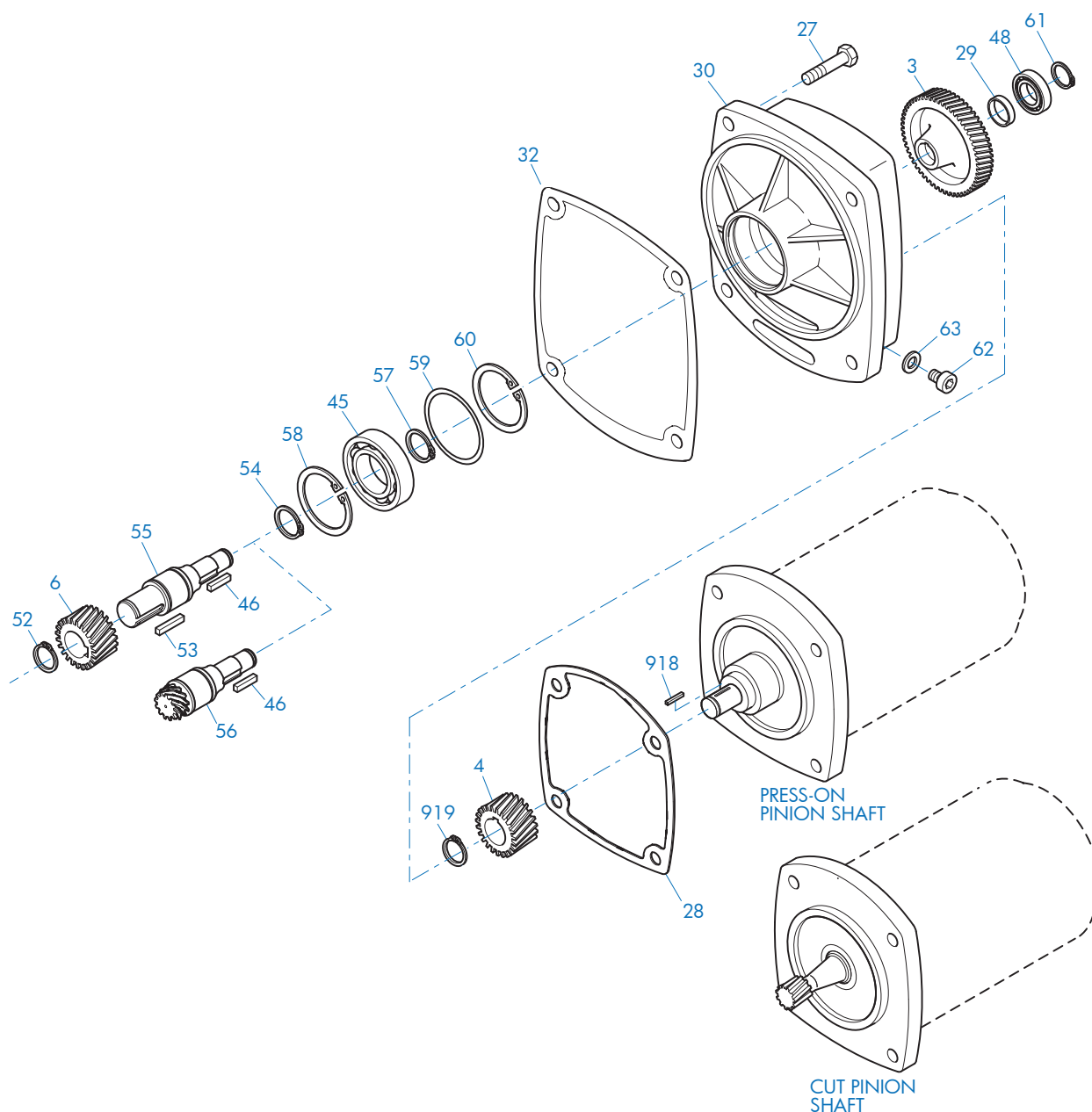
DRIVESYSTEMS

HELICAL IN-LINE PARTS LIST DRAWINGS

RETAIN FOR FUTURE USE



U15100 - 7 of 12



SK03 - SK53 Third Stage Reduction Gear

3	Gear	46	Key	59	Shim
4	Pinion	48	Anti-Friction Bearing	60	Snap Ring
6	Pinion	52	Snap Ring	61	Snap Ring
27	Bolt	53	Key	62	Oil Plug
28	Gasket	54	Snap Ring	63	Gasket
29	Spacer	55	Intermediate Shaft, Plain	918	Key
30	Third Reduction Gearcase	56	Intermediate Shaft, Gearcut	919	Snap Ring
32	Gasket	57	Snap Ring		
45	Anti-Friction Bearing	58	Snap Ring		

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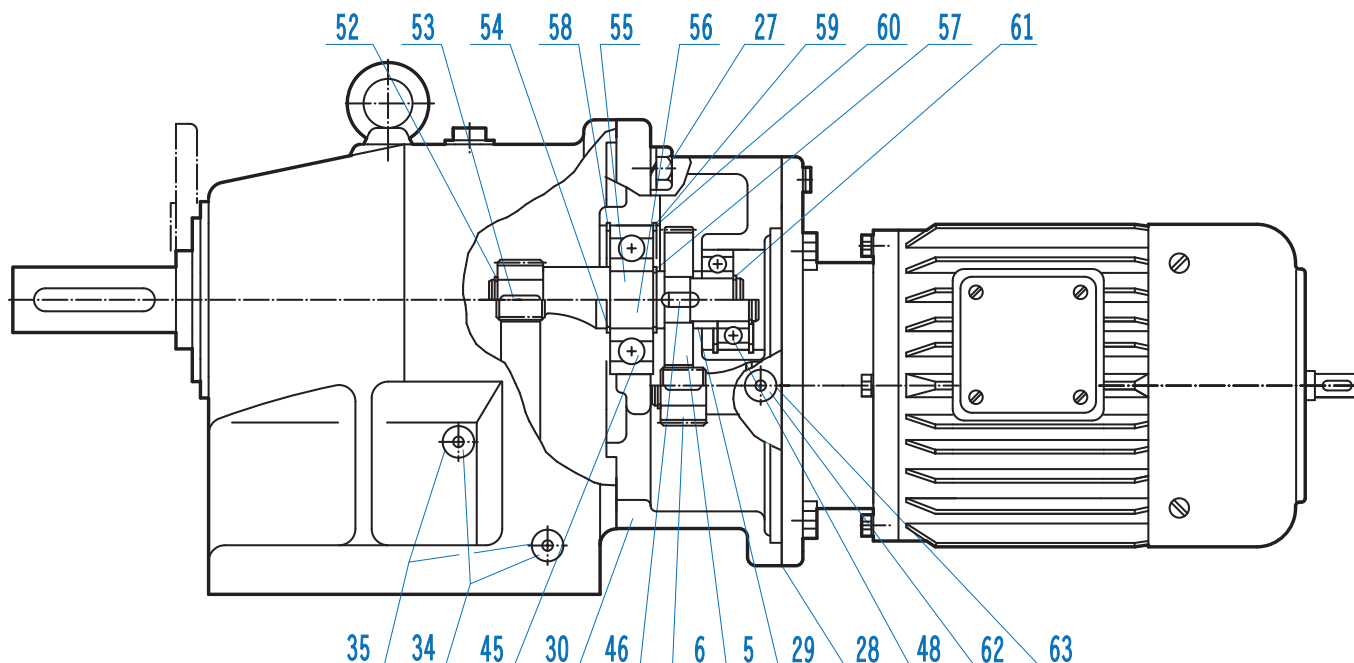
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HELICAL IN-LINE PARTS LIST DRAWINGS

RETAIN FOR FUTURE USE



SK03 - SK53 Using Third Stage Reduction Gear

3 Gear	46 Key	59 Shim
4 Pinion	48 Anti-Friction Bearing	60 Snap Ring
6 Pinion	52 Snap Ring	61 Snap Ring
27 Bolt	53 Key	62 Oil Plug
28 Gasket	54 Snap Ring	63 Gasket
29 Spacer	55 Intermediate Shaft, Plain	918 Key
30 Third Reduction Gearcase	56 Intermediate Shaft, Gearcut	919 Snap Ring
32 Gasket	57 Snap Ring	
45 Anti-Friction Bearing	58 Snap Ring	



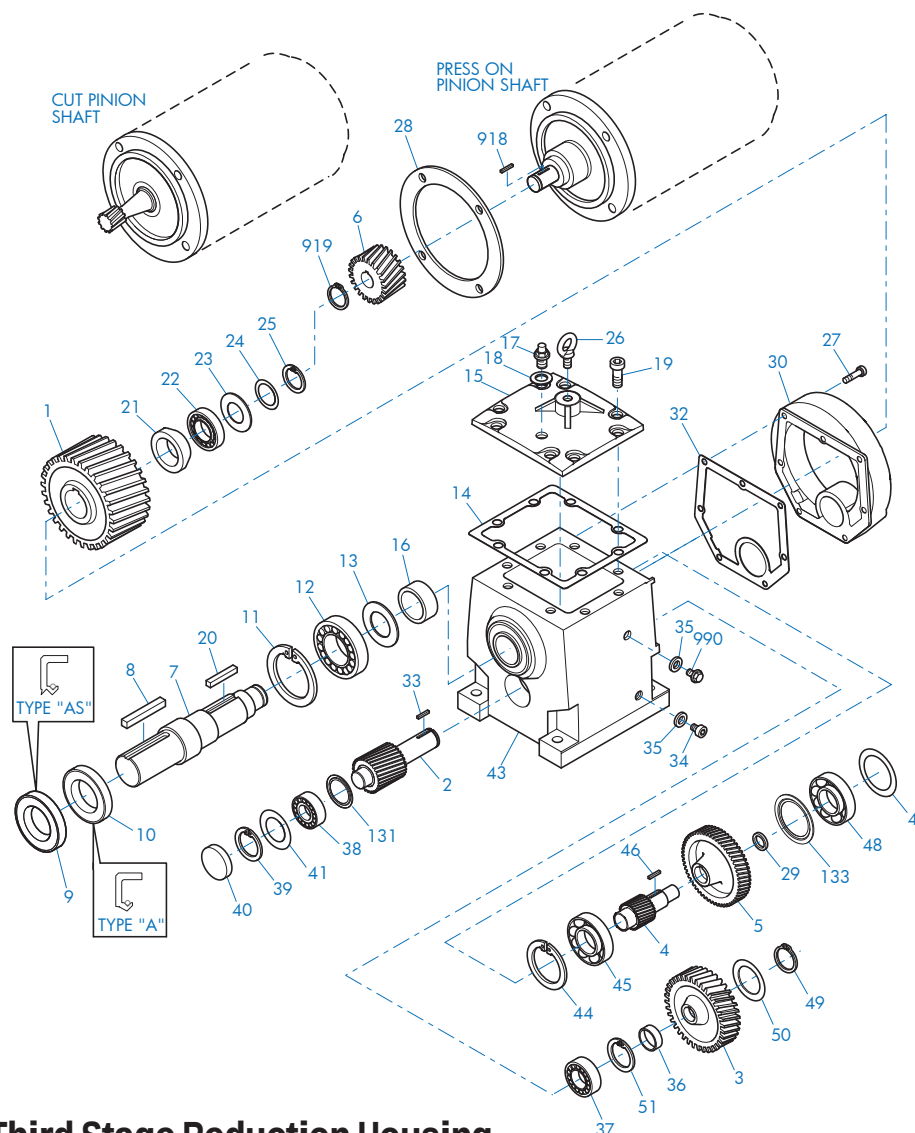
DRIVESYSTEMS

HELICAL IN-LINE PARTS LIST DRAWINGS

RETAIN FOR FUTURE USE



U15100 - 9 of 12



SK63 - SK103 Third Stage Reduction Housing

1 Gear	19 Bolt	38 Anti-Friction Bearing
2 Pinion Shaft	20 Key	39 Snap Ring
3 Gear	21 Spacer	40 Bore Plug
4 Pinion Shaft	22 Anti-Friction Bearing	41 Shim
5 Gear	23 Thrust Washer	43 Gearcase
6 Pinion	24 Shim	44 Snap Ring
7 Output Shaft	25 Snap Ring	45 Anti-Friction Bearing
8 Key	26 Flanged Eye Bolt	46 Key
9 Oil Seal	27 Bolt	47 Shim
10 Oil Seal	28 Gasket	48 Bearing
11 Snap Ring	29 Spacer	49 Snap Ring
12 Anti-Friction Bearing	30 Input Cover	50 Thrust Washer
13 NILOS Ring	32 Gasket	51 Snap Ring
14 Gasket	33 Key	131 NILOS Ring
15 Inspection Cover	34 Drain plug	133 NILOS Ring
16 Spacer	35 Gasket	918 Key
17 Vent Plug	36 Spacer	919 Snap Ring
18 Seal	37 Anti-Friction Bearing	990 Oil Level Plug

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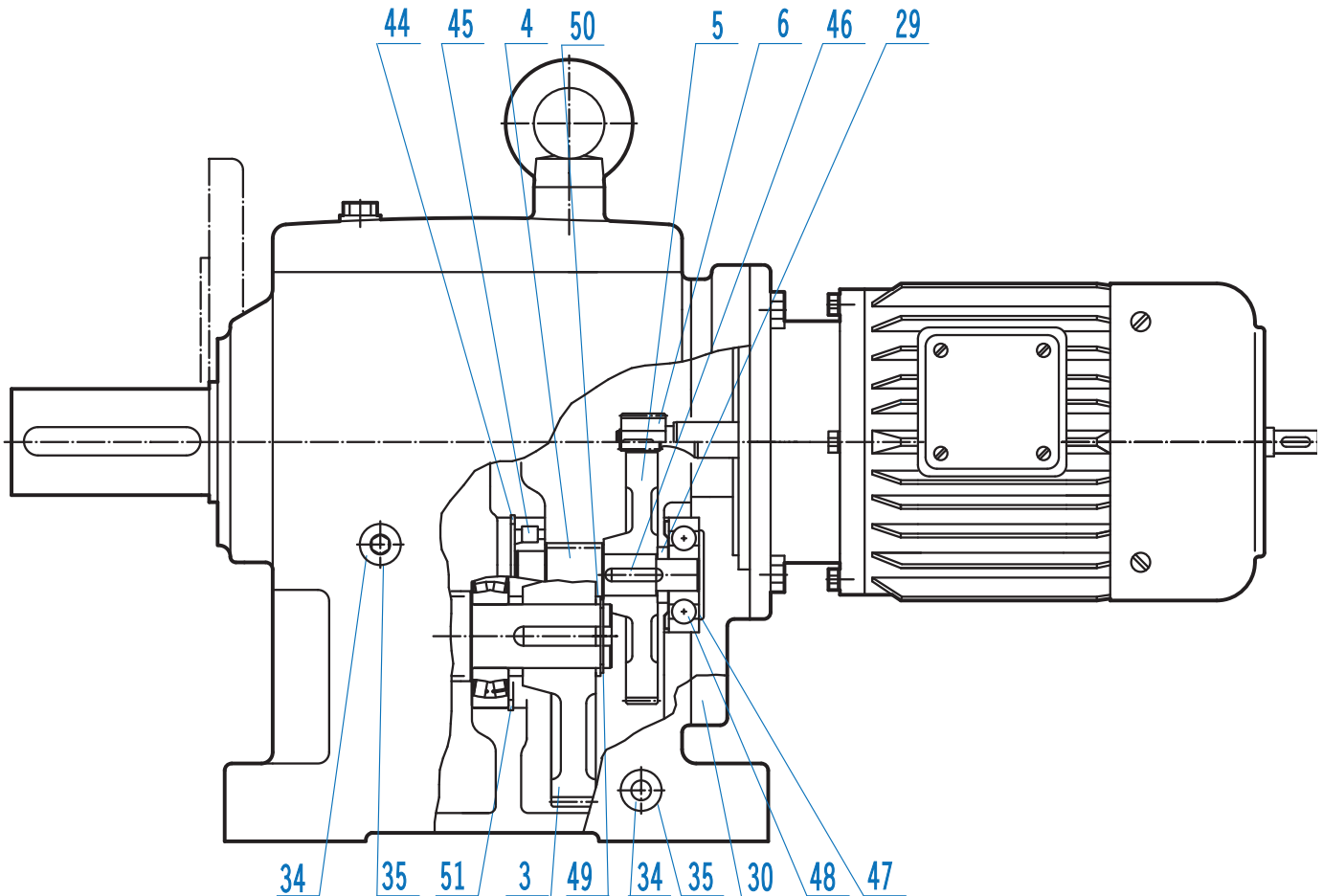
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HELICAL IN-LINE PARTS LIST DRAWINGS

RETAIN FOR FUTURE USE



U15100 - 10 of 12

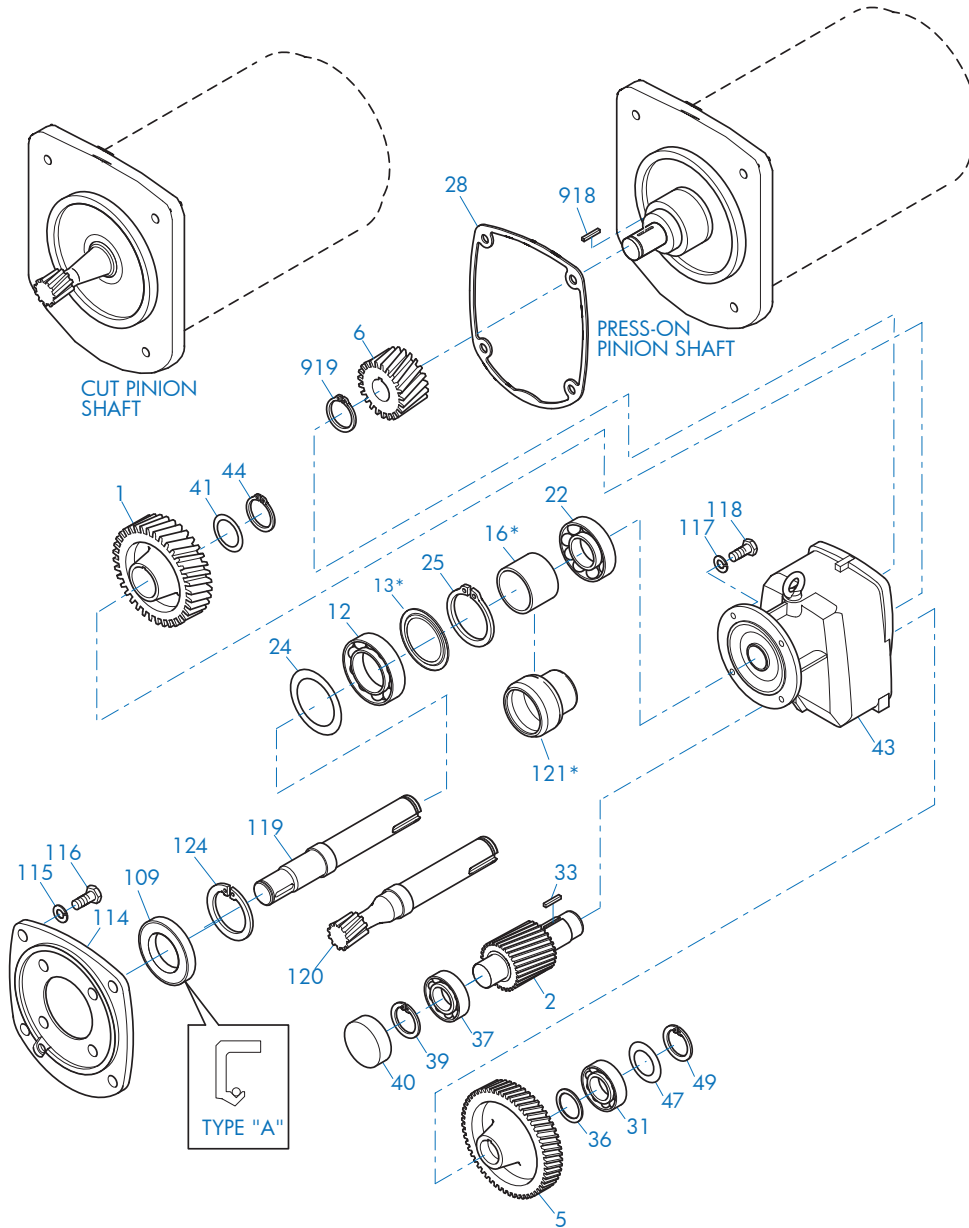


SK63 - SK103 Foot Mount

3 Gear	32 Gasket	47 Shim
4 Pinion Shaft	33 Key	48 Bearing
5 Gear	34 Drain plug	49 Snap Ring
6 Pinion	35 Gasket	50 Thrust Washer
28 Gasket	44 Snap Ring	51 Snap Ring
29 Spacer	45 Anti-Friction Bearing	133 NILOS Ring
30 Input Cover	46 Key	

HELICAL IN-LINE PARTS LIST DRAWINGS

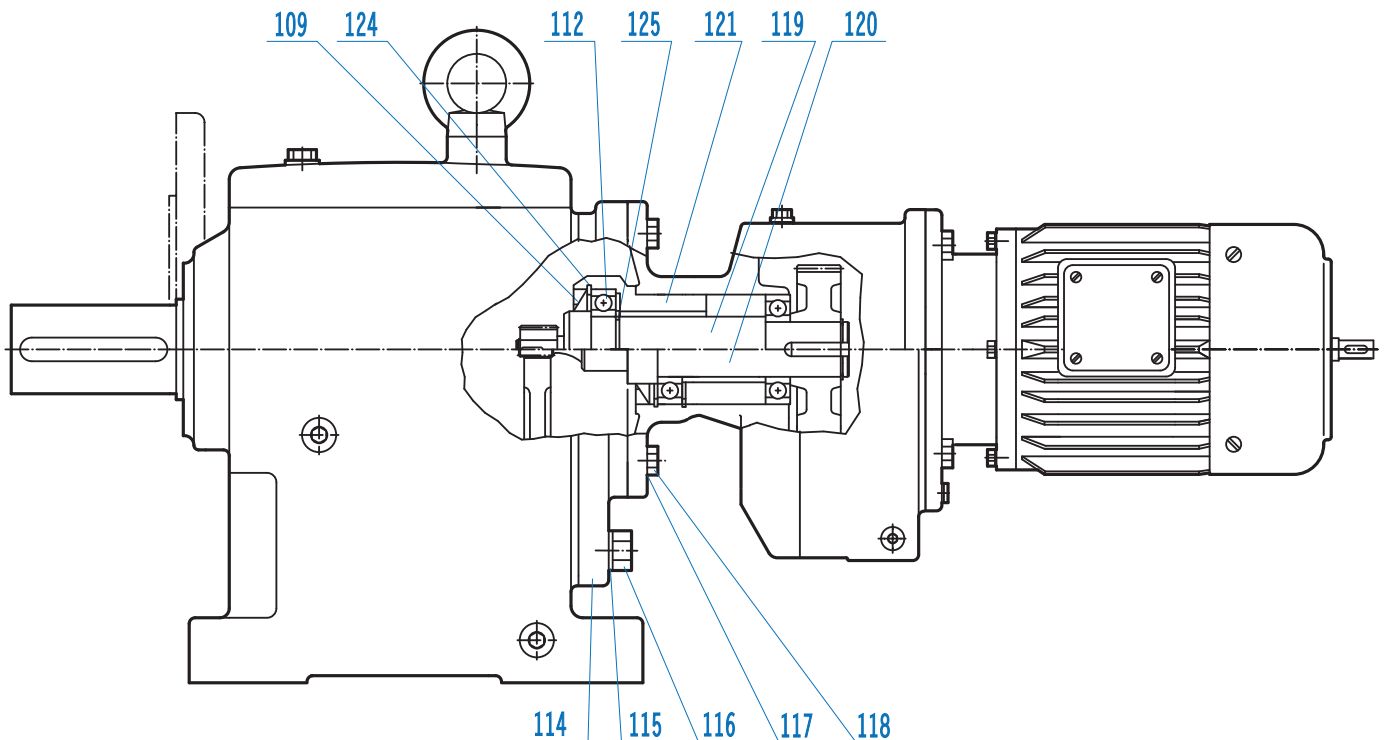
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SK12/02 - SK103/52 Input Compound Reduction

1 Gear	33 Key	115 Lock Washer
2 Pinion Shaft	36 Spacer	116 Bolt
5 Gear	37 Anti-Friction Bearing	117 Lock Washer
6 Pinion	39 Snap Ring	118 Bolt
12 Anti-Friction Bearing	40 Bore Plug	119 Intermediate Shaft, Plain
13 Nilos Ring*	41 Shim	120 Intermediate Shaft, Gearcut
16 Spacer*	43 Gearcase	121 Bearing Sleeve*
22 Anti-Friction Bearing	44 Snap Ring	124 Snap Ring
24 Shim	47 Shim	918 Key
25 Snap Ring	49 Snap Ring	919 Snap Ring
28 Gasket	109 Oil Seal	
31 Anti-Friction Bearing	114 Intermediate Flange	

* Conditionally used part



SK12/02 - SK103/52 Input Compound Reduction

12	Anti-Friction Bearing	115	Lock Washer	120	Intermediate Shaft, Gearcut
13	Nilos Ring*	116	Bolt	121	Bearing Sleeve*
16	Spacer*	117	Lock Washer	124	Snap Ring
25	Snap Ring	118	Bolt		
109	Oil Seal	119	Intermediate Shaft, Plain		
114	Intermediate Flange				

* Conditionally used part



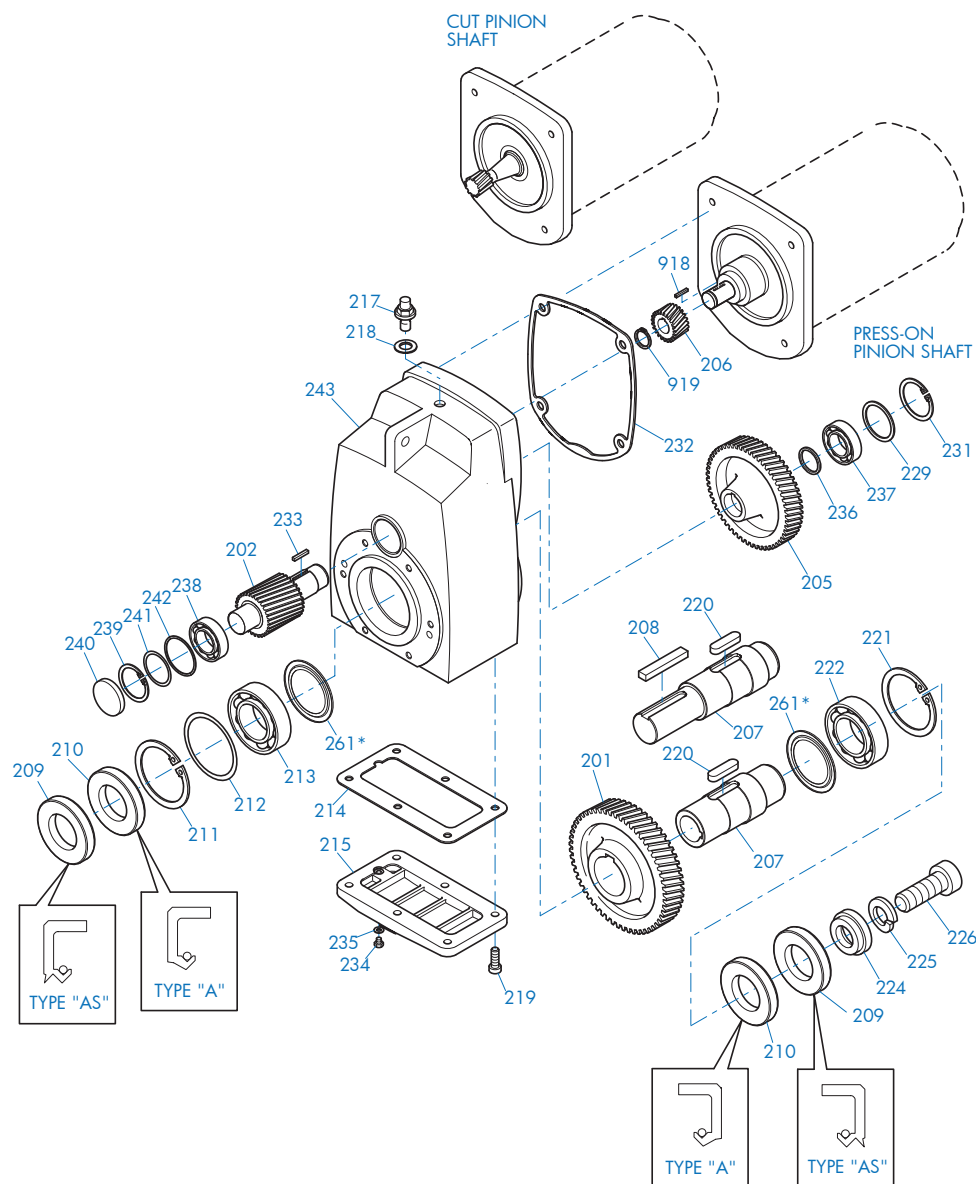
DRIVESYSTEMS

CLINCHER™ PARTS LIST DRAWINGS

RETAIN FOR FUTURE USE



U15200 - 1 of 12



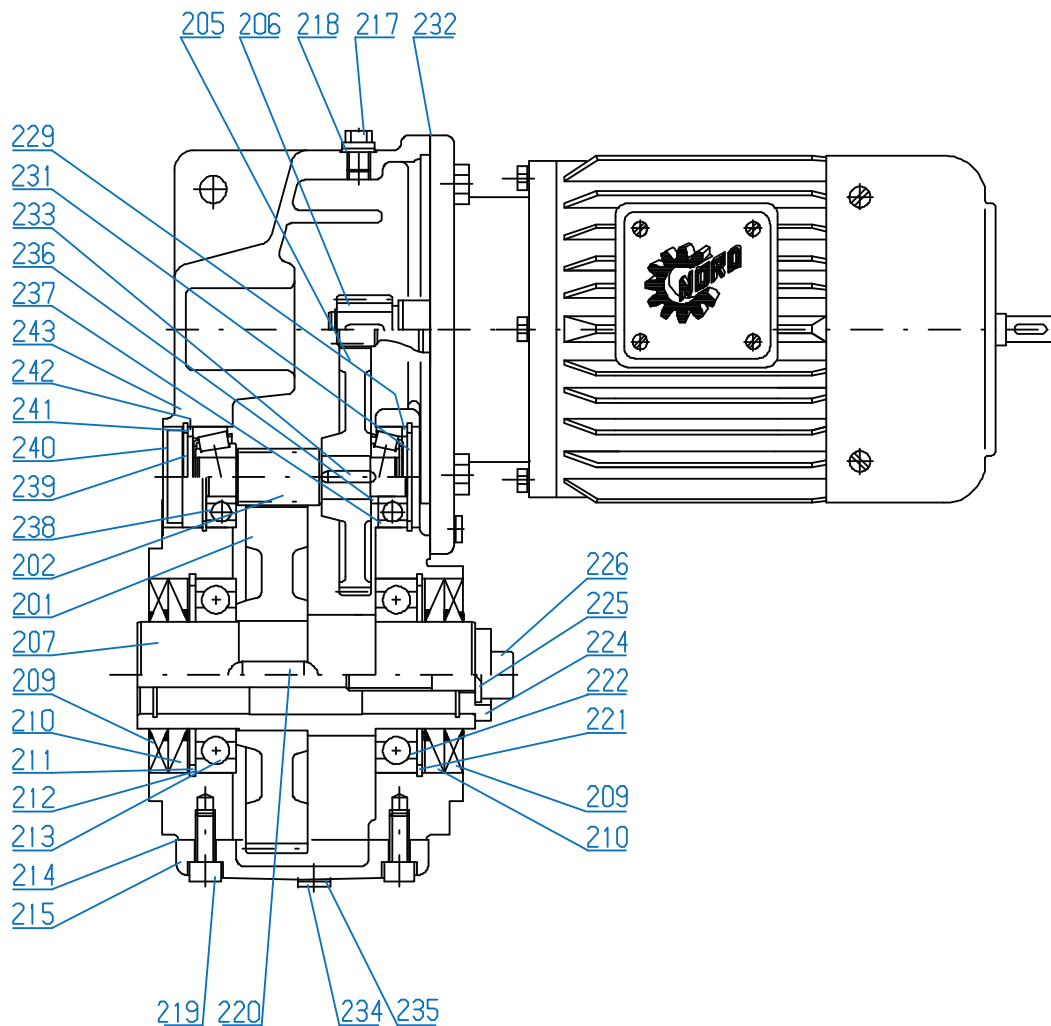
SK 0182NB - SK 5282

201 Gear	217 Vent Plug	234 Drain Plug
202 Pinion Shaft	218 Gasket	235 Gasket
205 Gear	219 Bolt	236 Thrust Washer
206 Pinion	220 Key	237 Anti-Friction Bearing
207 Output Shaft	221 Snap Ring	238 Anti-Friction Bearing
208 Key	222 Anti-Friction Bearing	239 Snap Ring
209 Oil Seal	224 Retaining Washer	240 Bore Plug
210 Oil Seal	225 Lock Washer	241 Shim
211 Snap Ring	226 Bolt	242 Thrust Washer
212 Shim	229 Thrust Washer	243 Gearcase
213 Anti-Friction Bearing	231 Snap Ring	261 Nilos Ring*
214 Gasket	232 Gasket	918 Key
215 Inspection Cover	233 Key	919 Snap Ring

* Conditionally used part

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SK 0182NB - SK 5282

201 Gear	217 Vent Plug	233 Key
202 Pinion Shaft	218 Gasket	234 Drain Plug
205 Gear	219 Bolt	235 Gasket
206 Pinion	220 Key	236 Thrust Washer
207 Output Shaft	221 Snap Ring	237 Anti-Friction Bearing
209 Oil Seal	222 Anti-Friction Bearing	238 Anti-Friction Bearing
210 Oil Seal	224 Retaining Washer	239 Snap Ring
211 Snap Ring	225 Lock Washer	240 Bore Plug
212 Shim	226 Bolt	241 Shim
213 Anti-Friction Bearing	229 Thrust Washer	242 Thrust Washer
214 Gasket	231 Snap Ring	243 Gearcase
215 Inspection Cover	232 Gasket	261 Nilos Ring*

* Conditionally used part

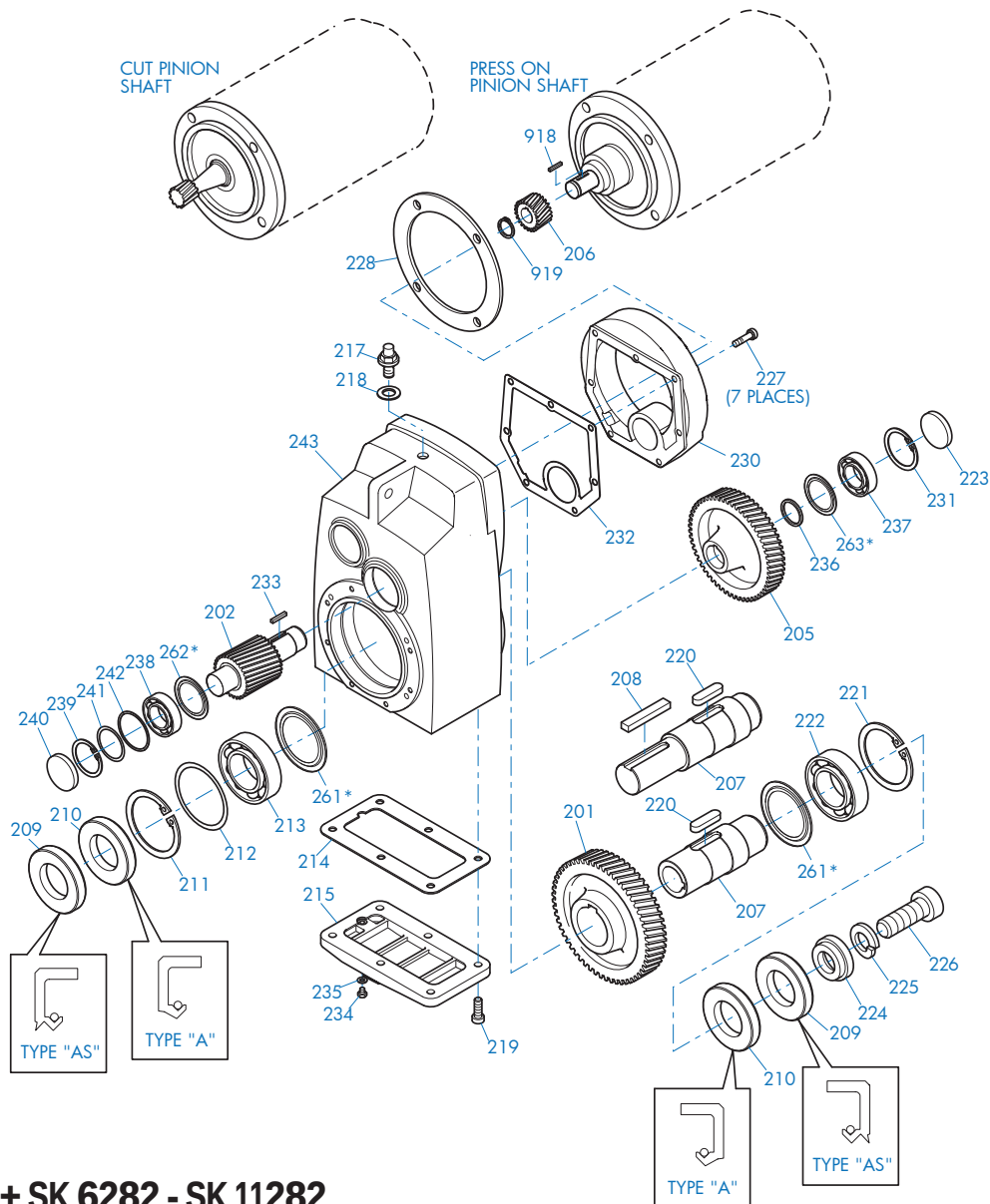


DRIVESYSTEMS

CLINCHER™ PARTS LIST DRAWINGS



U15200 - 3 of 12



SK 0282NB + SK 6282 - SK 11282

201 Gear	219 Bolt	236 Thrust Washer
202 Pinion Shaft	220 Key	237 Anti-Friction Bearing
205 Gear	221 Snap Ring	238 Anti-Friction Bearing
206 Pinion	222 Anti-Friction Bearing	239 Snap Ring
207 Output Shaft	224 Retaining Washer	240 Bore Plug
208 Key	225 Lock Washer	241 Shim
209 Oil Seal	226 Bolt	242 Thrust Washer
210 Oil Seal	227 Bolt	243 Gear case
211 Snap Ring	228 Gasket	261 Nilos Ring*
212 Shim	230 Input Cover	262 Nilos Ring*
213 Anti-Friction Bearing	231 Snap Ring	263 Nilos Ring*
214 Gasket	232 Gasket	918 Key
215 Inspection Cover	233 Key	919 Snap Ring
217 Vent Plug	234 Drain Plug	
218 Gasket	235 Gasket	

* Conditionally used part

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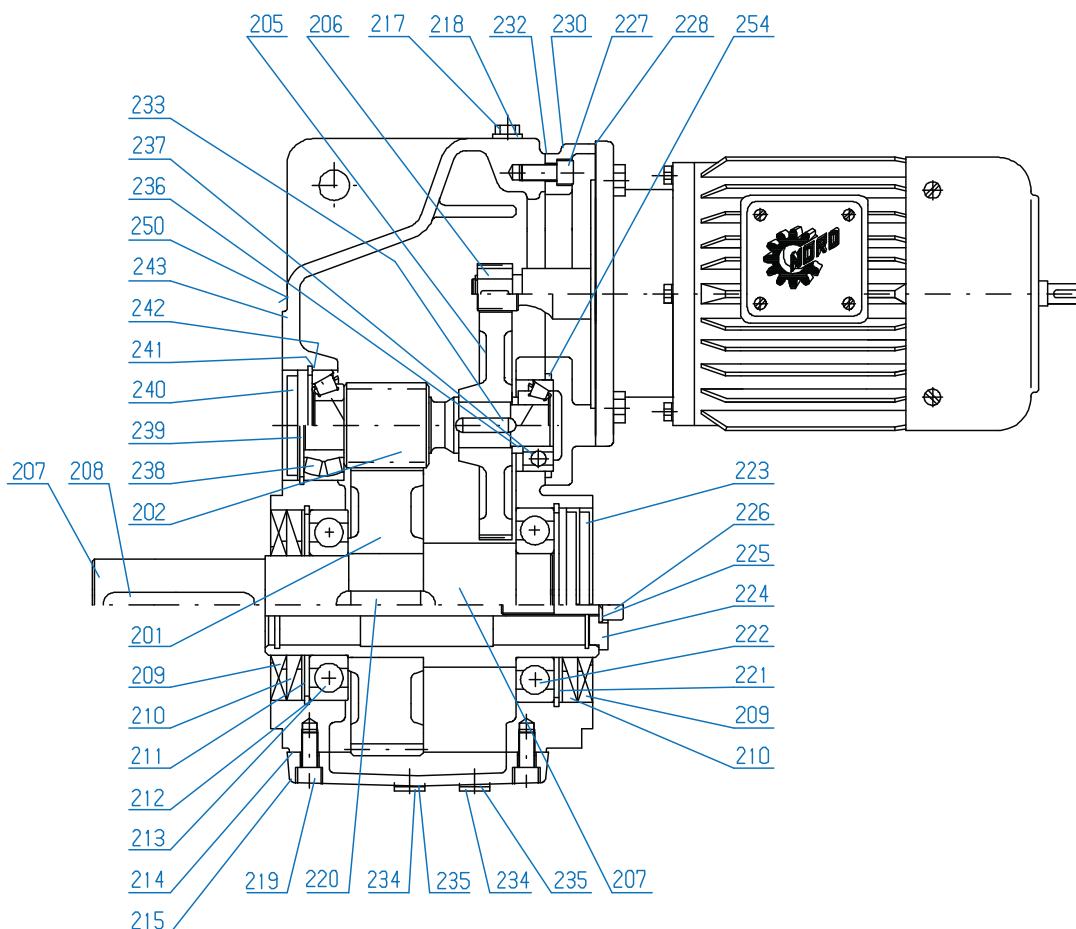
DRIVESYSTEMS

CLINCHER™ PARTS LIST DRAWINGS

RETAIN FOR FUTURE USE



U15200 - 4 of 12



SK 0282NB + SK 6282 - SK 11282

201 Gear	218 Gasket	234 Drain Plug
202 Pinion Shaft	219 Bolt	235 Gasket
205 Gear	220 Key	236 Thrust Washer
206 Pinion	221 Snap Ring	237 Anti-Friction Bearing
207 Output Shaft	222 Anti-Friction Bearing	238 Anti-Friction Bearing
208 Key	223 Bore Plug	239 Snap Ring
209 Oil Seal	224 Retaining Washer	240 Bore Plug
210 Oil Seal	225 Lock Washer	241 Shim
211 Snap Ring	226 Bolt	242 Thrust Washer
212 Shim	227 Bolt	243 Gear case
213 Anti-Friction Bearing	228 Gasket	250 Bore Plug
214 Gasket	230 Input Cover	261 Nilos Ring*
215 Inspection Cover	232 Gasket	262 Nilos Ring*
217 Vent Plug	233 Key	263 Nilos Ring*

* Conditionally used part

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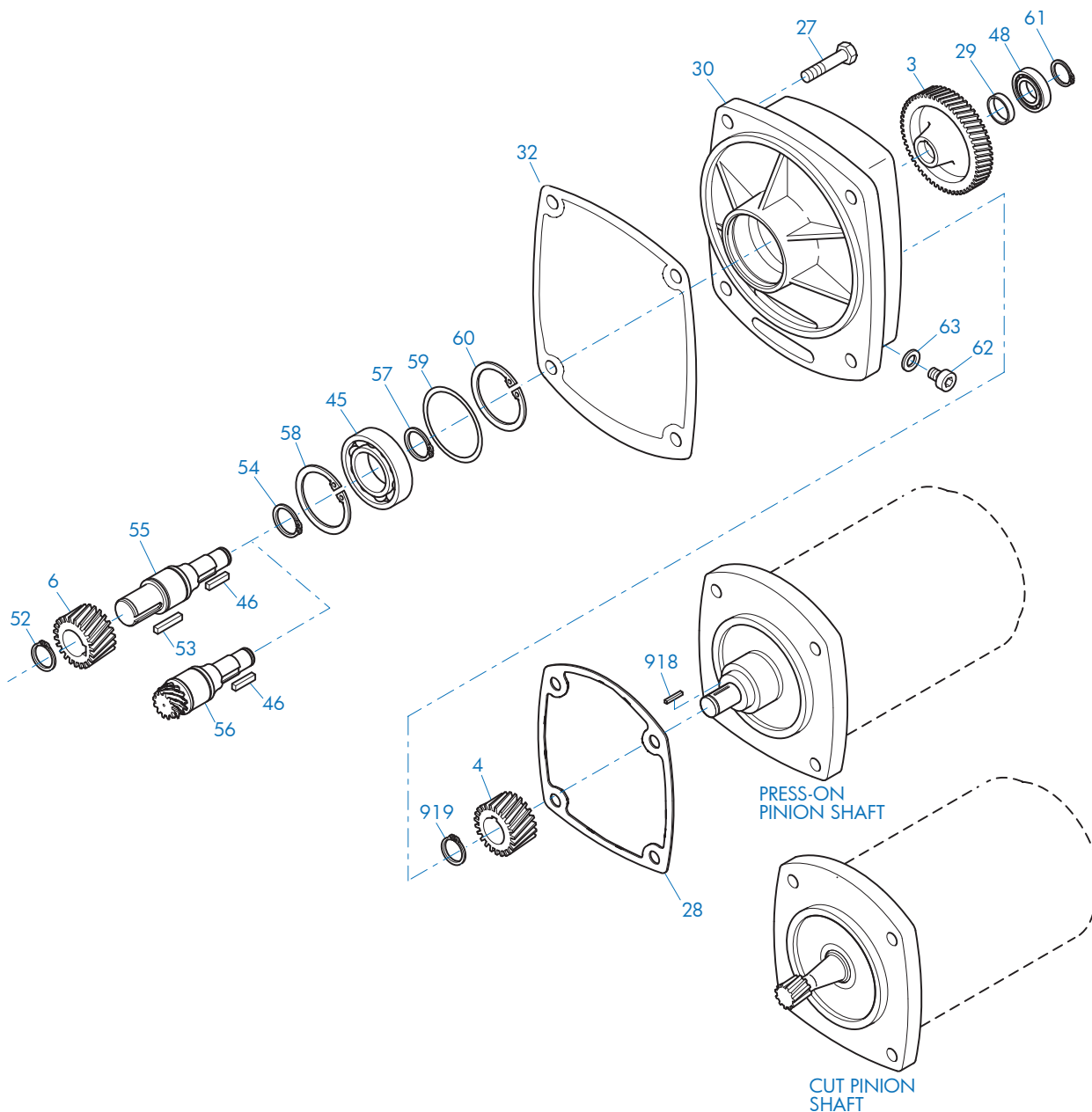
DRIVESYSTEMS

CLINCHER™ PARTS LIST DRAWINGS

RETAIN FOR FUTURE USE



U15200 - 5 of 12



SK 2382 - SK 5382 Third Stage Reduction Housing

3	Gear	46	Key	59	Shim
4	Pinion	48	Anti-Friction Bearing	60	Snap Ring
6	Pinion	52	Snap Ring	61	Snap Ring
27	Bolt	53	Key	62	Oil Plug
28	Gasket	54	Snap Ring	63	Gasket
29	Spacer	55	Intermediate Shaft, Plain	918	Key
30	Third Reduction Gearcase	56	Intermediate Shaft, Gearcut	919	Snap Ring
32	Gasket	57	Snap Ring		
45	Anti-Friction Bearing	58	Snap Ring		

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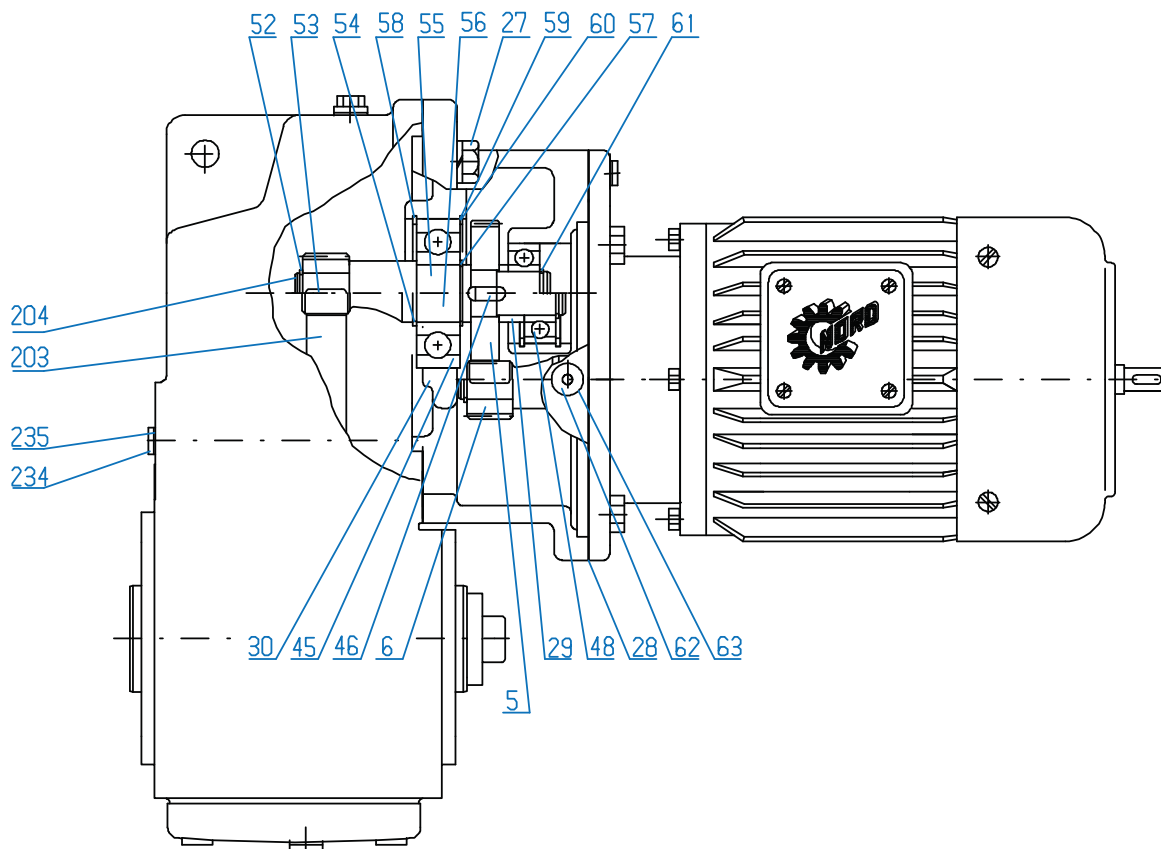
DRIVESYSTEMS

CLINCHER™ PARTS LIST DRAWINGS

RETAIN FOR FUTURE USE



U15200 - 6 of 12



SK 2382 - SK 5382 Third Stage Reduction Housing

3	Gear	46	Key	59	Shim
4	Pinion	48	Anti-Friction Bearing	60	Snap Ring
6	Pinion	52	Snap Ring	61	Snap Ring
27	Bolt	53	Key	62	Oil Plug
28	Gasket	54	Snap Ring	63	Gasket
29	Spacer	55	Intermediate Shaft, Plain	203	Gear
32	Gasket	56	Intermediate Shaft, Gearcut	204	Pinion Shaft
30	Third Reduction Gearcase	57	Snap Ring	234	Oil Plug
45	Anti-Friction Bearing	58	Snap Ring	235	Gasket

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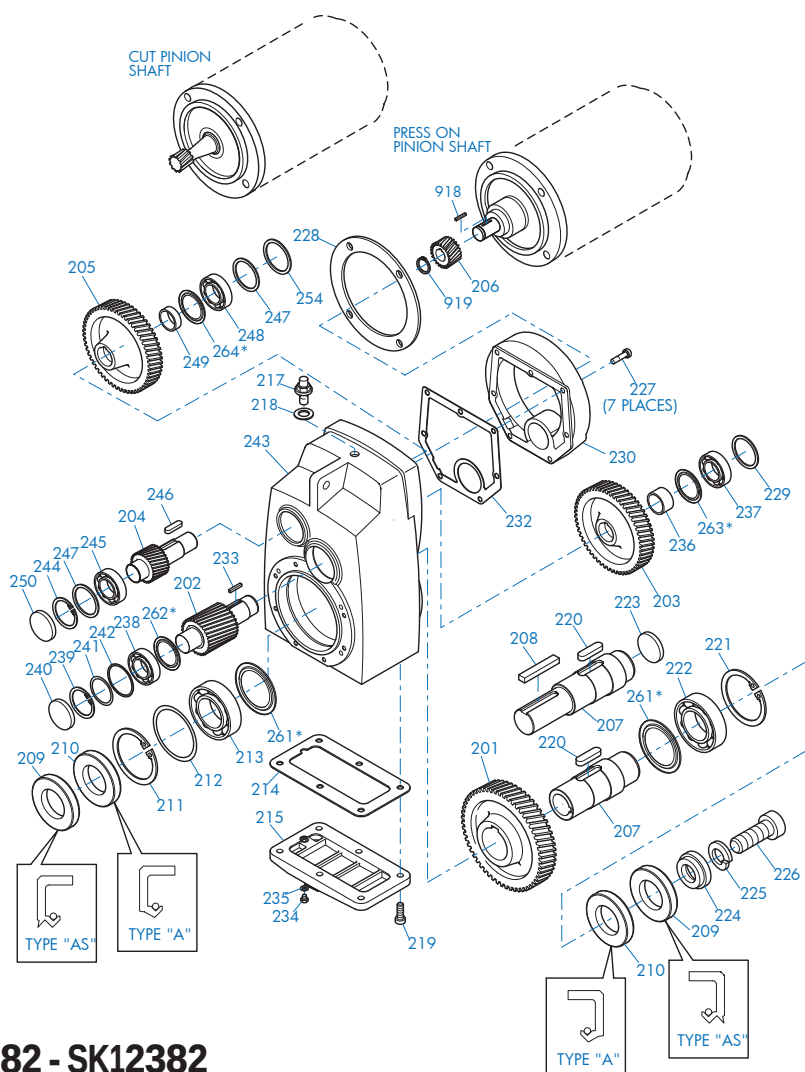
DRIVESYSTEMS

CLINCHER™ PARTS LIST DRAWINGS

RETAIN FOR FUTURE USE



U15200 - 7 of 12



SK 1382 NB + SK 6382 - SK12382

201 Gear	221 Snap Ring	241 Shim
202 Pinion Shaft	222 Anti-Friction Bearing	242 Thrust Washer
203 Gear	223 Bore Plug	243 Gearcase
204 Pinion Shaft	224 Retaining Washer	244 Snap Ring
205 Gear	225 Lock Washer	245 Anti-Friction Bearing
206 Pinion	226 Bolt	246 Key
207 Output Shaft	227 Bolt	247 Shim
208 Key	228 Gasket	248 Anti-Friction Bearing
209 Oil Seal	229 Thrust Washer	249 Spacer
210 Oil Seal	230 Input Cover	250 Bore Plug
211 Snap Ring	232 Gasket	254 Thrust Washer
212 Shim	233 Key	261 Nilos Ring*
213 Anti-Friction Bearing	234 Drain Plug	262 Nilos Ring*
214 Gasket	235 Gasket	263 Nilos Ring*
215 Inspection Cover	236 Thrust Washer	264 Nilos Ring*
217 Vent Plug	237 Anti-Friction Bearing	918 Key
218 Gasket	238 Anti-Friction Bearing	919 Snap Ring
219 Bolt	239 Snap Ring	
220 Key	240 Bore Plug	

* Conditionally used part

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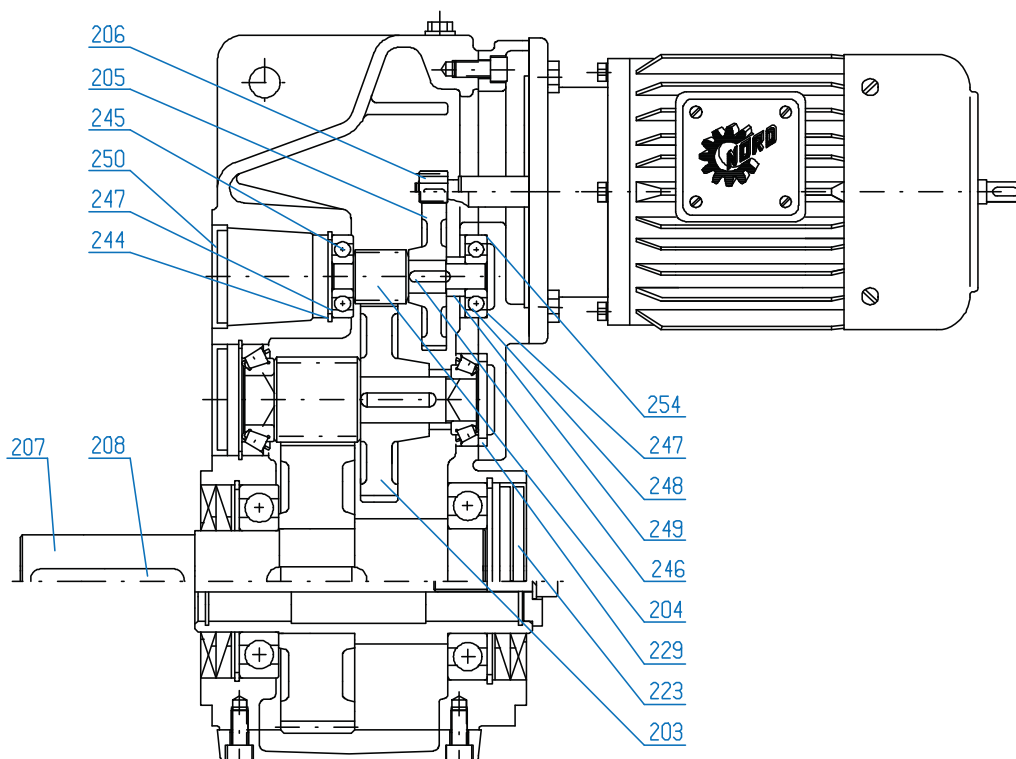
DRIVESYSTEMS

CLINCHER™ PARTS LIST DRAWINGS

RETAIN FOR FUTURE USE



U15200 - 8 of 12



SK 1382 NB + SK 6382 - SK12382

203 Gear	229 Thrust Washer	250 Bore Plug
204 Pinion Shaft	244 Snap Ring	254 Thrust Washer
205 Gear	245 Anti-Friction Bearing	261 Nilos Ring*
206 Pinion	246 Key	262 Nilos Ring*
207 Output Shaft	247 Shim	263 Nilos Ring*
208 Key	248 Anti-Friction Bearing	264 Nilos Ring*
223 Bore Plug	249 Spacer	

* Conditionally used part

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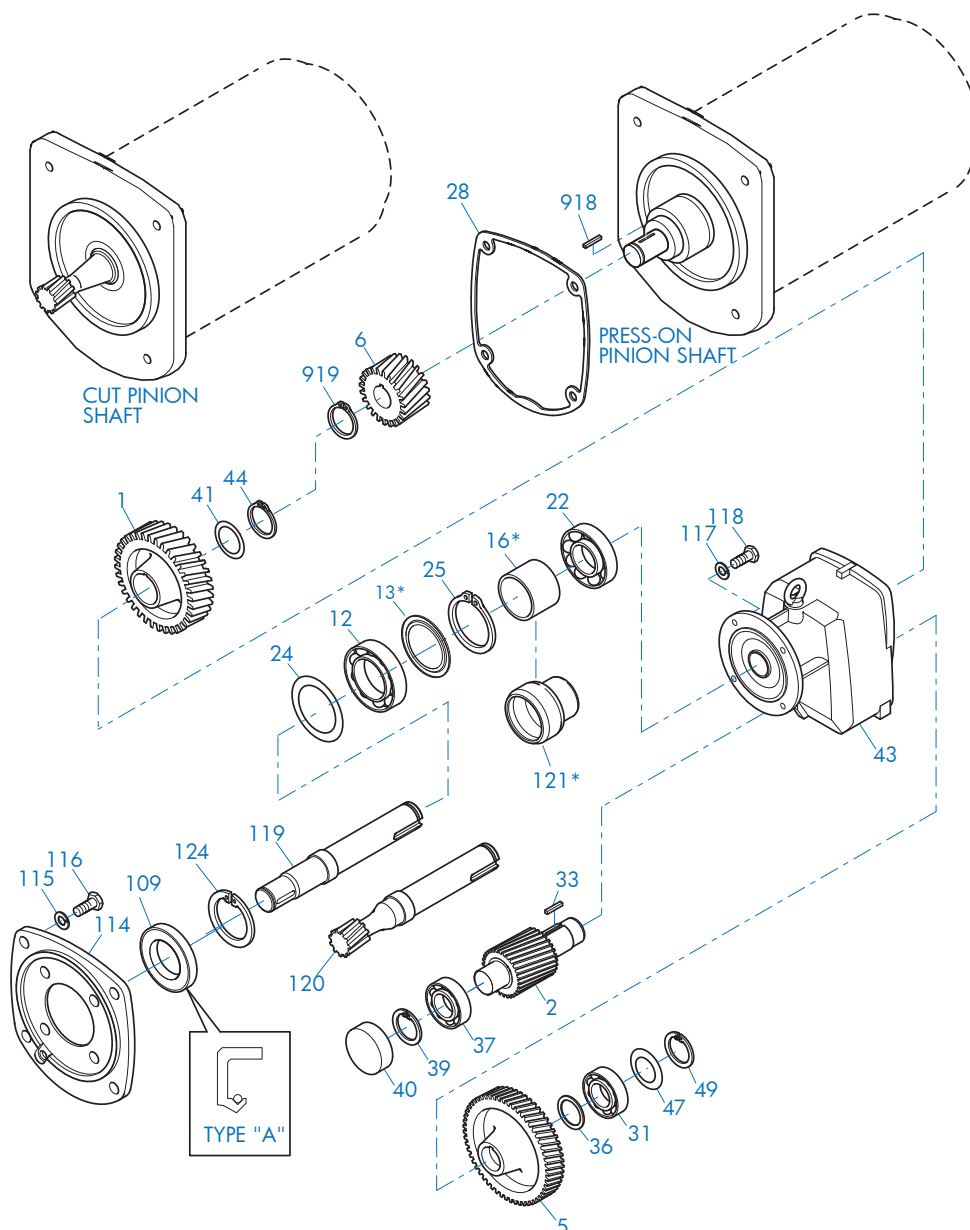
DRIVESYSTEMS

CLINCHER™ PARTS LIST DRAWINGS

RETAIN FOR FUTURE USE



U15200 - 9 of 12



SK1282/02 - SK11382/52 Multi-stage Reduction Unit

1 Gear	33 Key	115 Lock Washer
2 Pinion Shaft	36 Spacer	116 Bolt
5 Gear	37 Anti-Friction Bearing	117 Lock Washer
6 Pinion	39 Snap Ring	118 Bolt
12 Anti-Friction Bearing	40 Bore Plug	119 Intermediate Shaft, Plain
13 Nilos Ring*	41 Shim	120 Intermediate Shaft, Gearcut
16 Spacer*	43 Gearcase	121 Bearing Sleeve*
22 Anti-Friction Bearing	44 Snap Ring	124 Snap Ring
24 Shim	47 Shim	918 Key
25 Snap Ring	49 Snap Ring	919 Snap Ring
28 Gasket	109 Oil Seal	
31 Anti-Friction Bearing	114 Intermediate Flange	

* Conditionally used part

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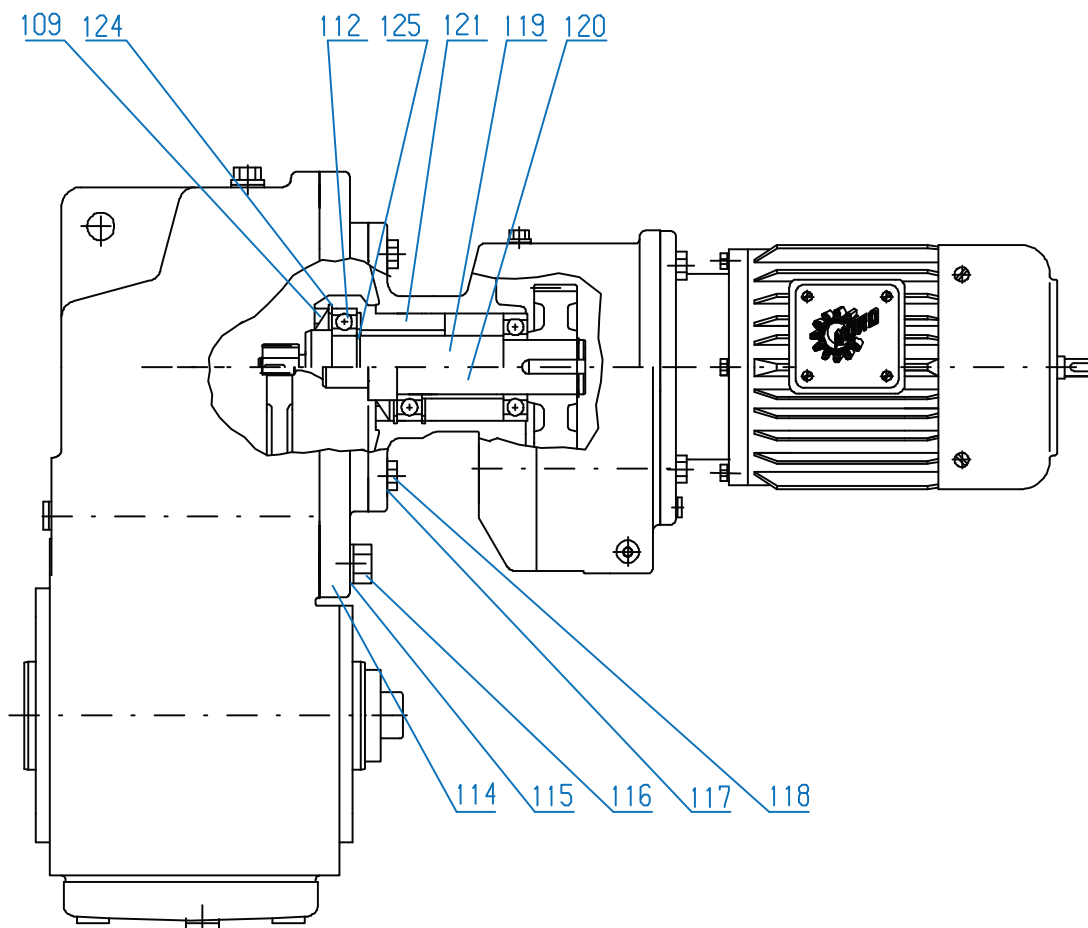
DRIVESYSTEMS

CLINCHER™ PARTS LIST DRAWINGS

RETAIN FOR FUTURE USE



U15200 - 10 of 12



SK 1282/02 - SK 11382/52

12 Anti-friction Bearing	114 Intermediate Flange	119 Intermediate Shaft, Plain
13 Nilos Ring*	115 Lock Washer	120 Intermediate Shaft, Gearcut
16 Spacer	116 Bolt	121 Bearing Sleeve
25 Snap Ring	117 Lock Washer	124 Snap Ring
109 Oil Seal	118 Bolt	

* Conditionally used part

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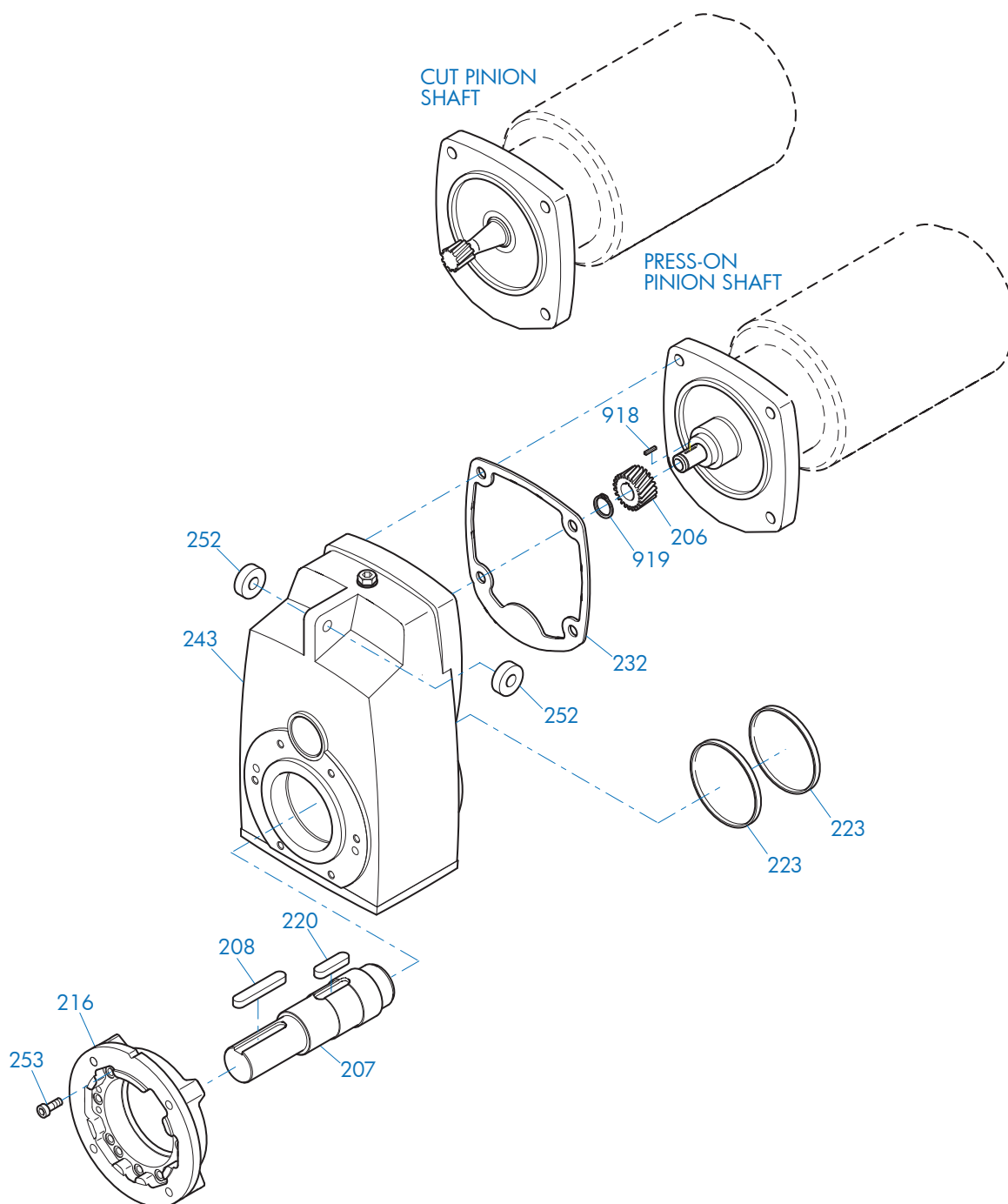
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CLINCHER™ PARTS LIST DRAWINGS

RETAIN FOR FUTURE USE



U15200 - 11 of 12



SK 0182NB - SK 11282 & SK 1382 - SK 11382

206 Pinion
207 Output Shaft
208 Key
216 Flange

220 Key
223 Bore Plug
232 Gasket
243 Gearcase

252 Rubber Buffer
253 Bolt
918 Key
919 Snap Ring

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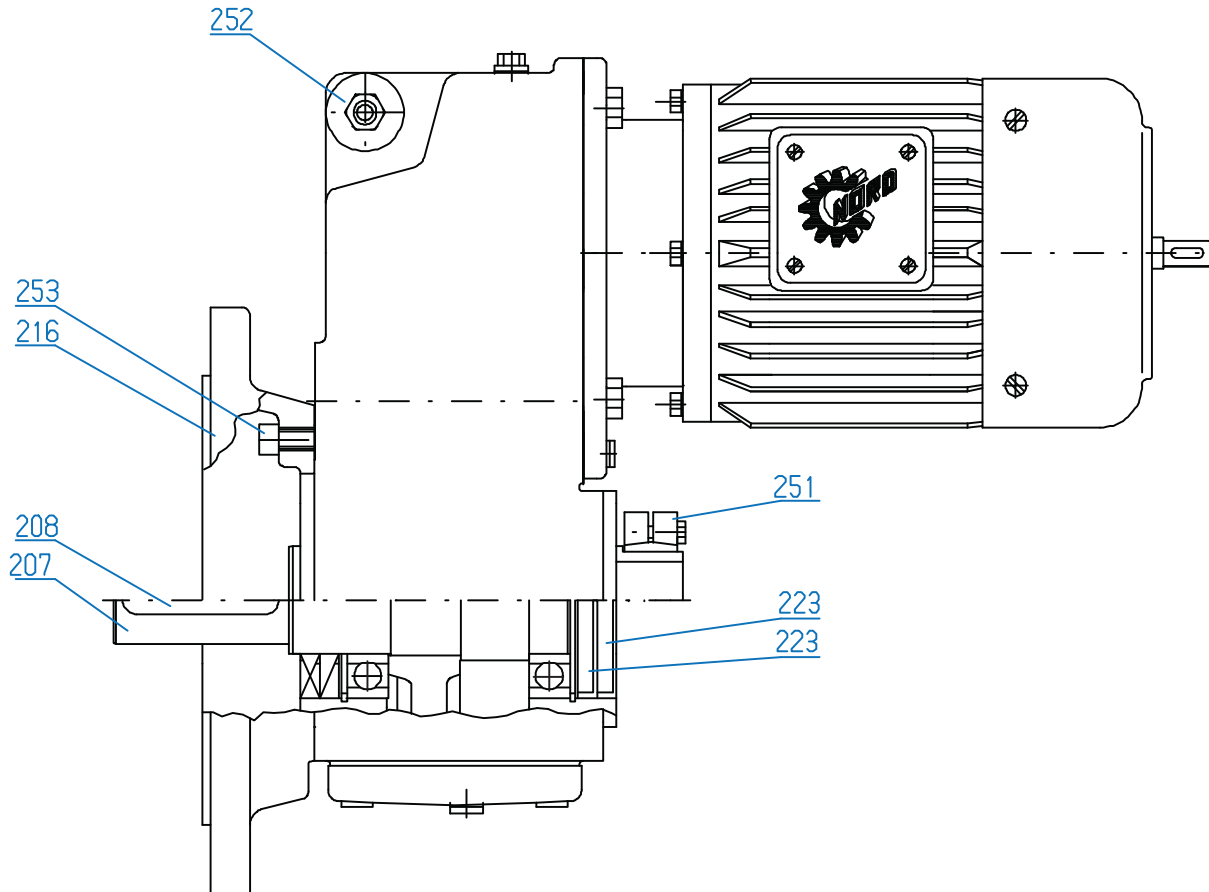
DRIVESYSTEMS

CLINCHER™ PARTS LIST DRAWINGS

RETAIN FOR FUTURE USE



U15200 - 12 of 12



SK 0182NB - SK 11282 & SK 1382 - SK 11382

207 Output Shaft
208 Key
216 Flange

223 Bore Plug
251 Shrink Disc
252 Rubber Buffer

253 Bolt

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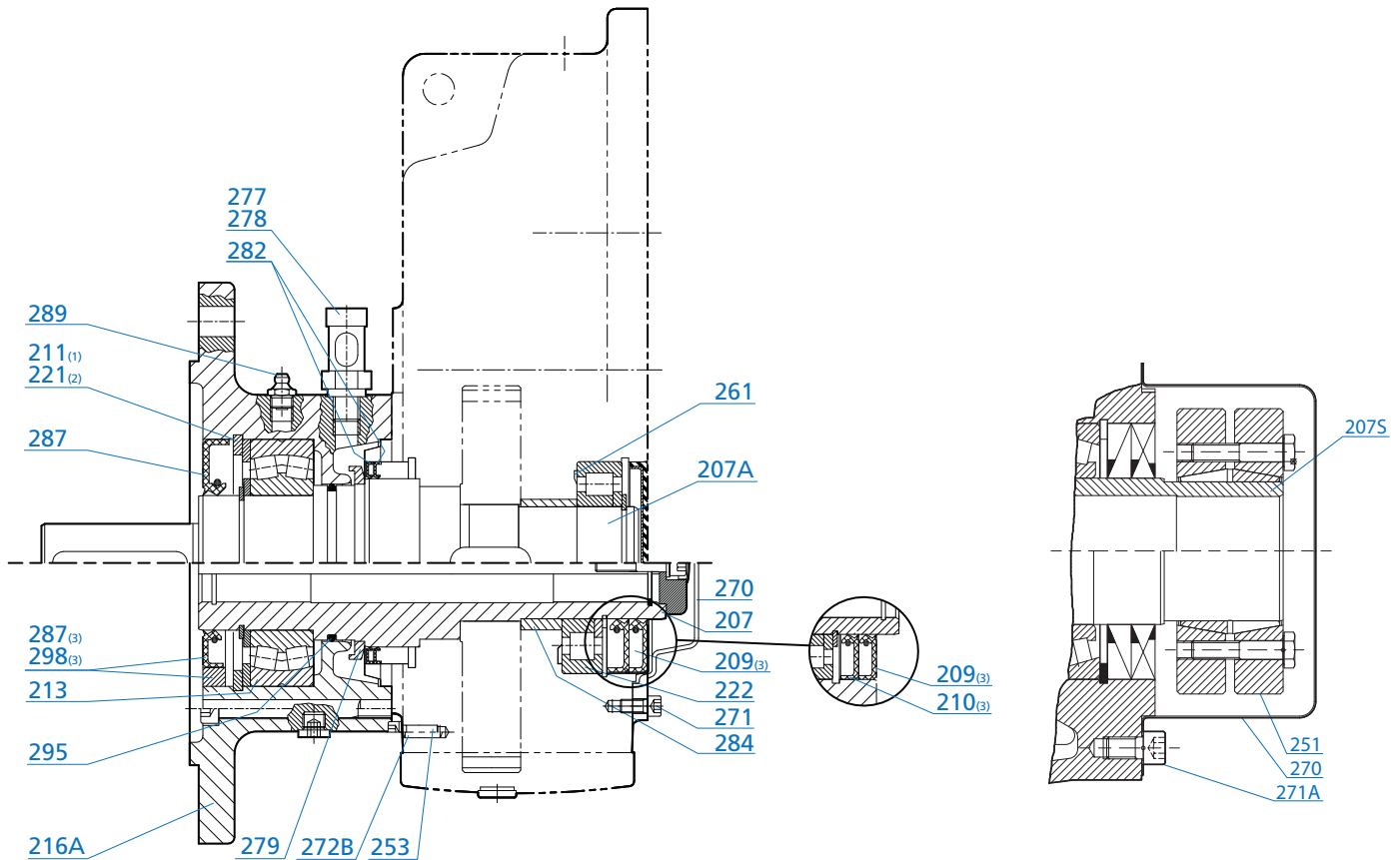


DRIVESYSTEMS

CLINCHER™ VL2 & VL3 PARTS LIST DRAWINGS



U15210 - 1 of 1



Parallel Helical Clincher VL2 & VL3

207A	Hollow Output Shaft	222	Bearing	278	Plug Gasket
207	Solid Output Shaft	251	Shrink Disk	279	Oil Slinger (VL3)
207S	Shrink Disk Hollow Shaft	253	Screw	282	Seal
209 (3)	Seal	261	NILOS Ring	284	Spacer
210 (3)	Seal	270	Shaft Cover	287 (3)	Seal
211 (1)	Snap Ring	271	Shaft Cover Screw	289	Grease Fitting
213	Bearing	272B	Dowel Pin	295	O-Ring
216A	Flange	277	Drain Plug (VL2)	298 (3)	Bushing
221 (3)	Snap Ring	277	Oil Level Indicator (VL3)		

(1) = Needed for 2282/3282

(3) = Varies By Unit

(2) = Needed for 3282/3382

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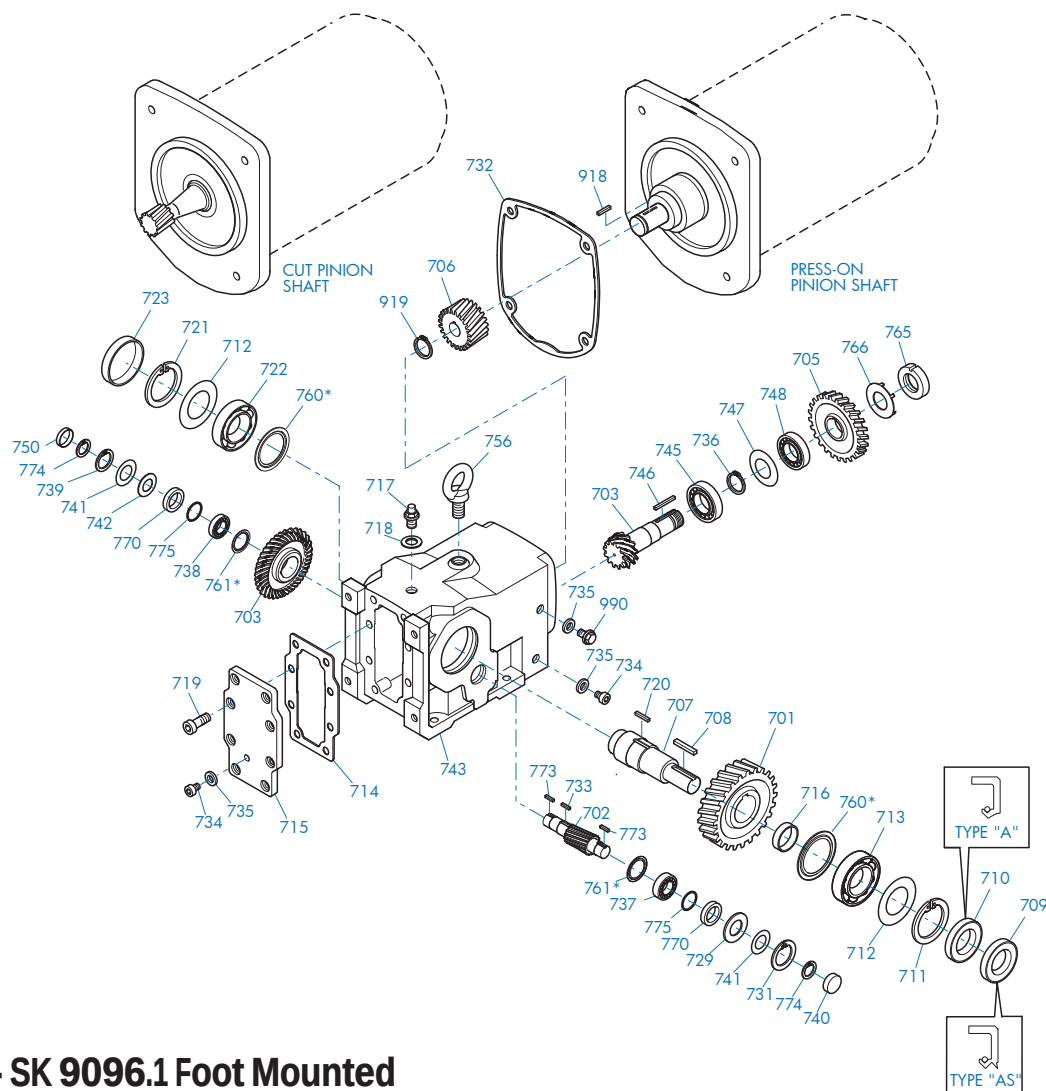
DRIVESYSTEMS

90.1 HELICAL-BEVEL PARTS LIST DRAWINGS

RETAIN FOR FUTURE USE



U15300 - 1 of 10



SK 9012.1 - SK 9096.1 Foot Mounted

701 Output Gear	721 Snap Ring	747 Shim
702 Pinion Shaft	722 Anti-Friction Bearing	748 Anti-Friction Bearing
703 Bevel Gearset	723 Bore Plug	750 Bore Plug
705 Gear	729 Thrust Washer	756 Flanged Eye Bolt
706 Pinion	731 Snap Ring	760 Nilos Ring*
707 Output Shaft	732 Gasket	761 Nilos Ring*
708 Key	733 Key	765 Slotted Round Nut
709 Oil Seal	734 Oil Plug	766 Tab Lock Washer
710 Oil Seal	735 Gasket	770 Backstop (If Equipped)
711 Snap Ring	736 Snap Ring	773 Key (w/Backstop)
712 Shim	737 Anti-Friction Bearing	774 Snap Ring
713 Anti-Friction Bearing	738 Anti-Friction Bearing	(w/Backstop)
714 Gasket	739 Snap Ring	775 Thrust Washer
715 Inspection Cover	740 Bore Plug	(w/Backstop)
716 Spacer	741 Shim	918 Key
717 Vent screw	742 Thrust Washer	919 Snap Ring
718 Gasket	743 Gearcase	990 Oil Level Plug
719 Bolt	745 Anti-Friction Bearing	
720 Key	746 Key	

* Conditionally used part

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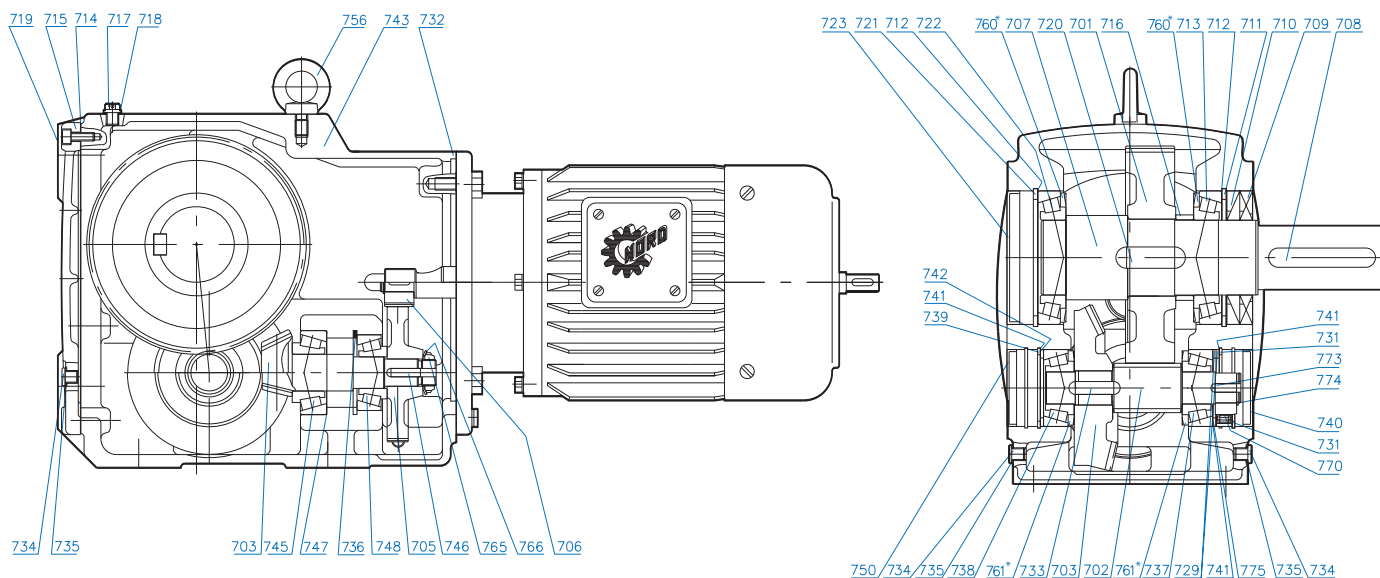
DRIVESYSTEMS

90.1 HELICAL-BEVEL PARTS LIST DRAWINGS

RETAIN FOR FUTURE USE



U15300 - 2 of 10



SK 9012.1 - SK 9096.1 Foot Mounted

701 Output Gear	720 Key	745 Anti-Friction Bearing
702 Pinion Shaft	721 Snap Ring	746 Key
703 Bevel Gearset	722 Anti-Friction Bearing	747 Shim
705 Gear	723 Bore Plug	748 Anti-Friction Bearing
706 Pinion	729 Thrust Washer	750 Bore Plug
707 Output Shaft	731 Snap Ring	756 Flanged Eye Bolt
708 Key	732 Gasket	760 Nilos Ring*
709 Oil Seal	733 Key	761 Nilos Ring*
710 Oil Seal	734 Oil Plug	765 Slotted Round Nut
711 Snap Ring	735 Gasket	766 Tab Lock Washer
712 Shim	736 Snap Ring	770 Backstop (If Equipped)
713 Anti-Friction Bearing	737 Anti-Friction Bearing	773 Key (w/Backstop)
714 Gasket	738 Anti-Friction Bearing	774 Snap Ring
715 Inspection Cover	739 Snap Ring	(w/Backstop)
716 Spacer	740 Bore Plug	775 Thrust Washer
717 Vent	741 Shim	(w/Backstop)
718 Gasket	742 Thrust Washer	
719 Bolt	743 Gearcase	

* Conditionally used part

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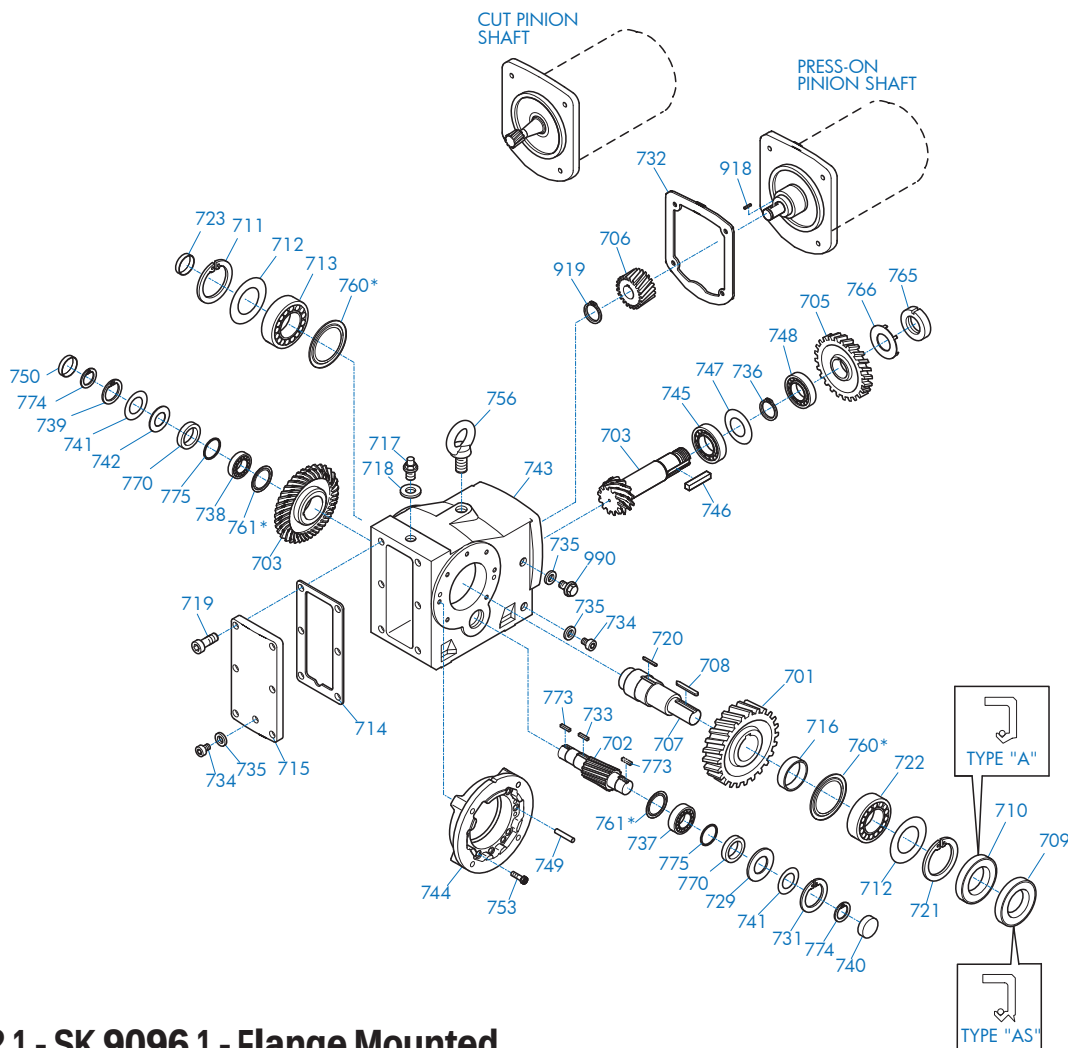
DRIVESYSTEMS

90.1 HELICAL-BEVEL PARTS LIST DRAWINGS

RETAIN FOR FUTURE USE



U15300 - 3 of 10



SK 9012.1 - SK 9096.1 - Flange Mounted

701 Output Gear	722 Anti-Friction Bearing	748 Anti-Friction Bearing
702 Pinion Shaft	723 Bore Plug	749 Dowel Pin
703 Bevel Gearset	729 Thrust Washer	750 Bore Plug
705 Gear	731 Snap Ring	753 Bolt
706 Pinion	732 Gasket	756 Flanged Eye Bolt
707 Output Shaft	733 Key	760 Nilos Ring*
708 Key	734 Oil plug	761 Nilos Ring*
709 Oil Seal	735 Gasket	765 Slotted Round Nut
710 Oil Seal	736 Snap Ring	766 Tab Lock Washer
711 Snap Ring	737 Anti-Friction Bearing	770 Backstop (If Equipped)
712 Shim	738 Anti-Friction Bearing	773 Key (w/Backstop)
713 Anti-Friction Bearing	739 Snap Ring	774 Snap Ring
714 Gasket	740 Bore Plug	(w/Backstop)
715 Inspection Cover	741 Shim	775 Thrust Washer
716 Spacer	742 Thrust Washer	(w/Backstop)
717 Vent Plug	743 Gearcase	918 Key
718 Gasket	744 Flange	919 Snap Ring
719 Bolt	745 Anti-Friction Bearing	990 Oil Level Plug
720 Key	746 Key	
721 Snap Ring	747 Shim	

* Conditionally used part

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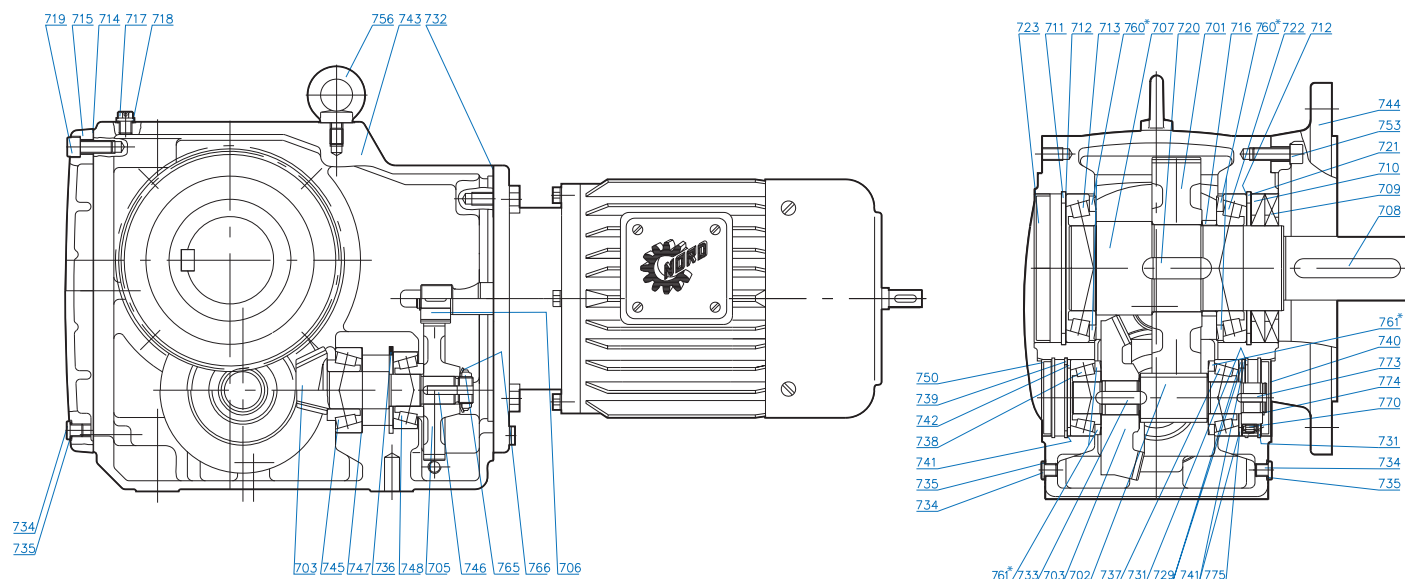
DRIVESYSTEMS

90.1 HELICAL-BEVEL PARTS LIST DRAWINGS

RETAIN FOR FUTURE USE



U15300 - 4 of 10



SK 9012.1 - SK 9096.1 - Flange Mounted

701 Output Gear	720 Key	744 Flange
702 Pinion Shaft	721 Snap Ring	745 Anti-Friction Bearing
703 Bevel Gearset	722 Anti-Friction Bearing	746 Key
705 Gear	723 Bore Plug	747 Shim
706 Pinion	729 Thrust Washer	748 Anti-Friction Bearing
707 Output Shaft	731 Snap Ring	750 Bore Plug
708 Key	732 Gasket	753 Bolt
709 Oil Seal	733 Key	756 Flanged Eye Bolt
710 Oil Seal	734 Oil plug	760 Nilos Ring*
711 Snap Ring	735 Gasket	761 Nilos Ring*
712 Shim	736 Snap Ring	765 Slotted Round Nut
713 Anti-Friction Bearing	737 Anti-Friction Bearing	766 Tab Lock Washer
714 Gasket	738 Anti-Friction Bearing	770 Backstop*
715 Inspection Cover	739 Snap Ring	773 Key (w/Backstop)
716 Spacer	740 Bore Plug	774 Snap Ring
717 Vent Plug	741 Shim	(w/Backstop)
718 Gasket	742 Thrust Washer	775 Thrust Washer
719 Bolt	743 Gearcase	(w/Backstop)

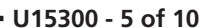
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701 Gear	724 Retaining Washer	748 Anti-Friction Bearing
702 Pinion Shaft	725 Lock Washer	750 Bore Plug
703 Bevel Gearset	726 Bolt	752 Torque Arm
705 Gear	729 Thrust Washer	753 Bolt
706 Pinion	731 Snap Ring	756 Flanged Eye Bolt
707 Output Shaft	732 Gasket	760 Nilos Ring*
709 Oil Seal	733 Key	761 Nilos Ring*
710 Oil Seal	734 Oil plug	765 Slotted Round Nut
711 Snap Ring	735 Gasket	766 Tab Lock Washer
712 Shim	736 Snap Ring	770 Backstop (If Equipped)
713 Anti-Friction Bearing	737 Anti-Friction Bearing	773 Key (w/Backstop)
714 Gasket	738 Anti-Friction Bearing	774 Snap Ring (w/Backstop)
715 Inspection Cover	739 Snap Ring	775 Thrust Washer (w/Backstop)
716 Spacer	740 Bore Plug	918 Key
717 Vent Plug	741 Shim	919 Snap Ring
718 Gasket	742 Thrust Washer	990 Oil Level Plug
719 Bolt	743 Gearcase	
720 Key	745 Anti-Friction Bearing	
721 Snap Ring	746 Key	
722 Anti-Friction Bearing	747 Shim	

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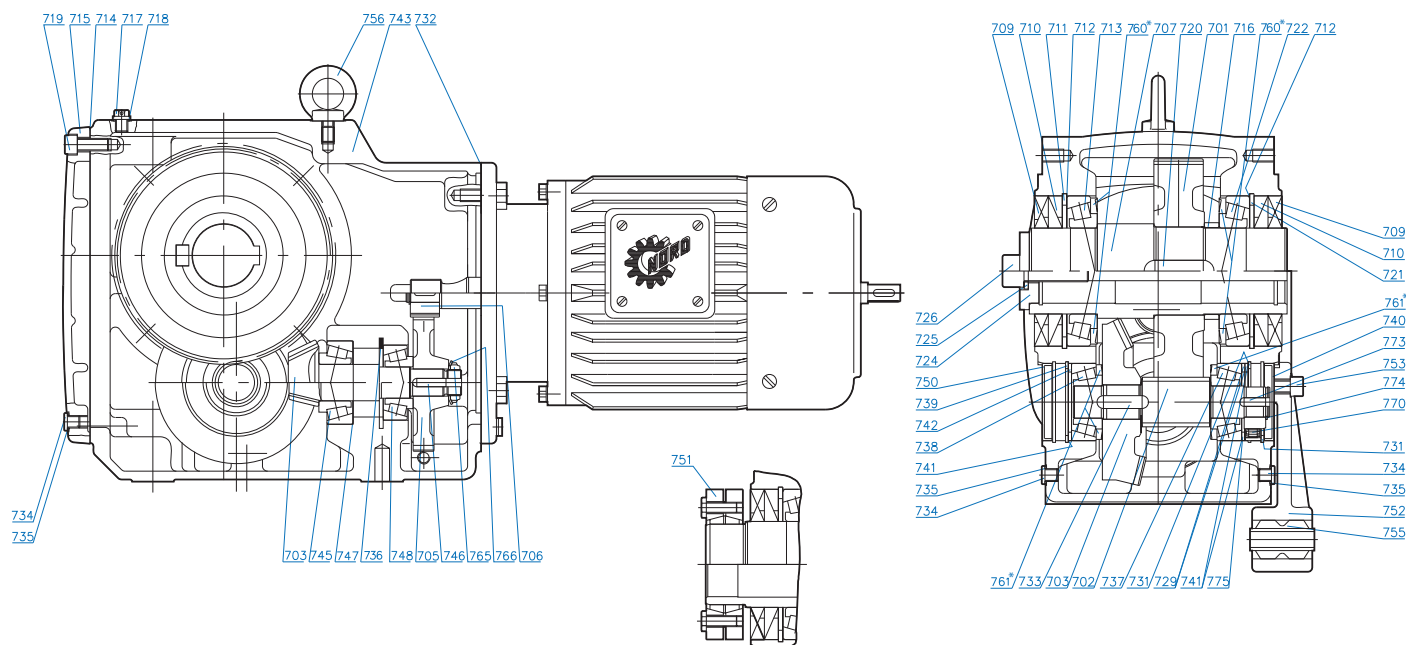
DRIVESYSTEMS

90.1 HELICAL-BEVEL PARTS LIST DRAWINGS

RETAIN FOR FUTURE USE



U15300 - 6 of 10



SK 9012.1 - SK 9096.1 - Shaft Mounted

701 Gear	722 Anti-Friction Bearing	746 Key
702 Pinion Shaft	724 Washer	747 Shim
703 Bevel Gearset	725 Lock Washer	748 Anti-Friction Bearing
705 Gear	726 Bolt	750 Bore Plug
706 Pinion	729 Thrust Washer	751 Shrink Disc
707 Output Shaft	731 Snap Ring	752 Torque Arm
709 Oil Seal	732 Gasket	753 Bolt
710 Oil Seal	733 Key	755 Rubber Buffer
711 Snap Ring	734 Oil plug	756 Flanged Eye Bolt
712 Shim	735 Gasket	760 Nilos Ring*
713 Anti-Friction Bearing	736 Snap Ring	761 Nilos Ring*
714 Gasket	737 Anti-Friction Bearing	765 Slotted Round Nut
715 Inspection Cover	738 Anti-Friction Bearing	766 Tab Lock Washer
716 Spacer	739 Snap Ring	770 Backstop*
717 Vent Plug	740 Bore Plug	773 Key (w/Backstop)
718 Seal	741 Shim	774 Snap Ring
719 Bolt	742 Thrust Washer	(w/Backstop)
720 Key	743 Gearcase	775 Thrust Washer
721 Snap Ring	745 Anti-Friction Bearing	(w/Backstop)

* Conditionally used part

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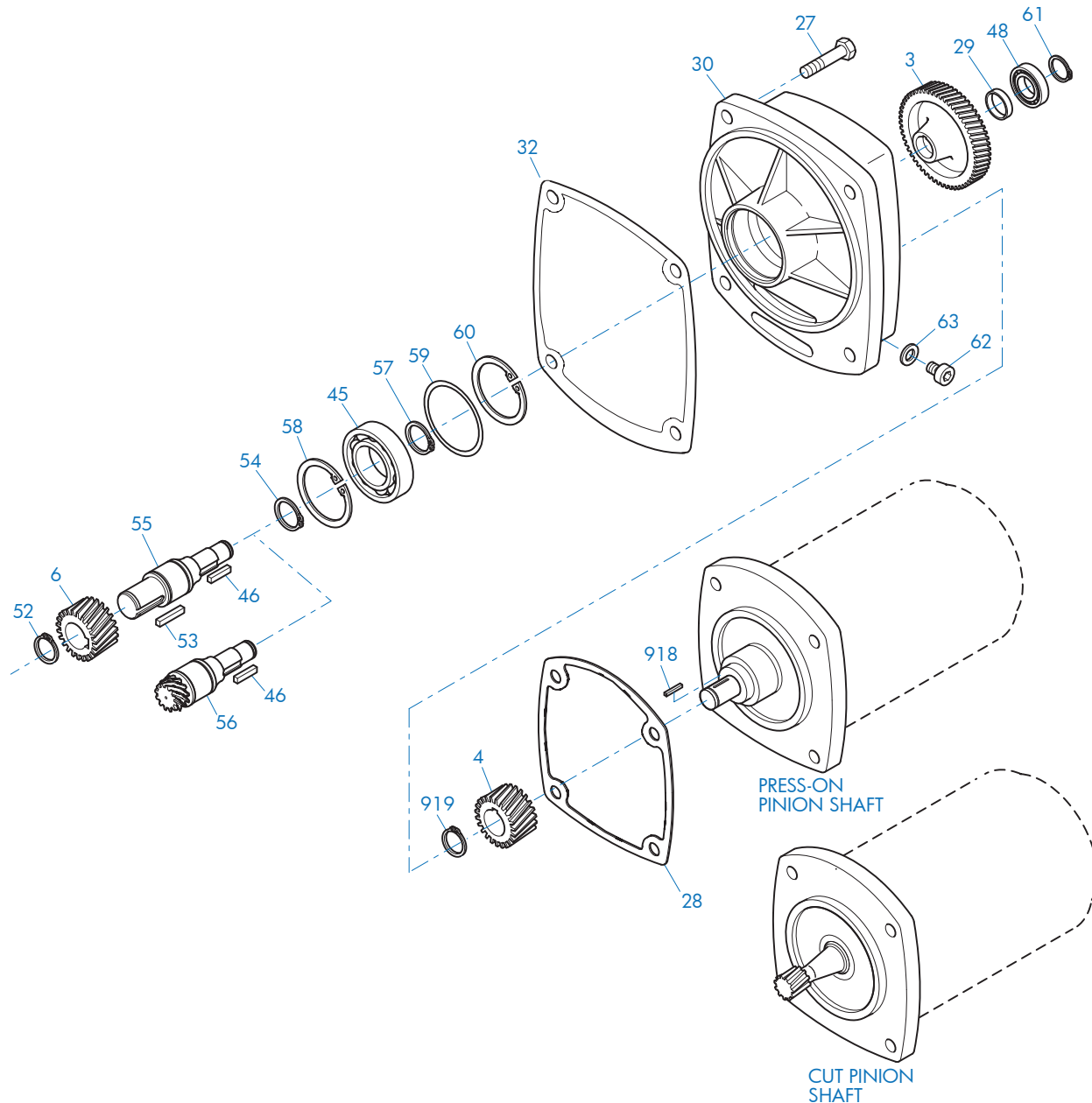
DRIVESYSTEMS

90.1 HELICAL-BEVEL PARTS LIST DRAWINGS

RETAIN FOR FUTURE USE



U15300 - 7 of 10



SK9013.1 - SK9053.1 Third Stage Reduction Gear

3	Gear	46	Key	59	Shim
4	Pinion	48	Anti-Friction Bearing	60	Snap Ring
6	Pinion	52	Snap Ring	61	Snap Ring
27	Bolt	53	Key	62	Oil Plug
28	Gasket	54	Snap Ring	63	Gasket
29	Spacer	55	Intermediate Shaft, Plain	918	Key
30	Third Reduction Gearcase	56	Intermediate Shaft, Gearcut	919	Snap Ring
32	Gasket	57	Snap Ring		
45	Anti-Friction Bearing	58	Snap Ring		



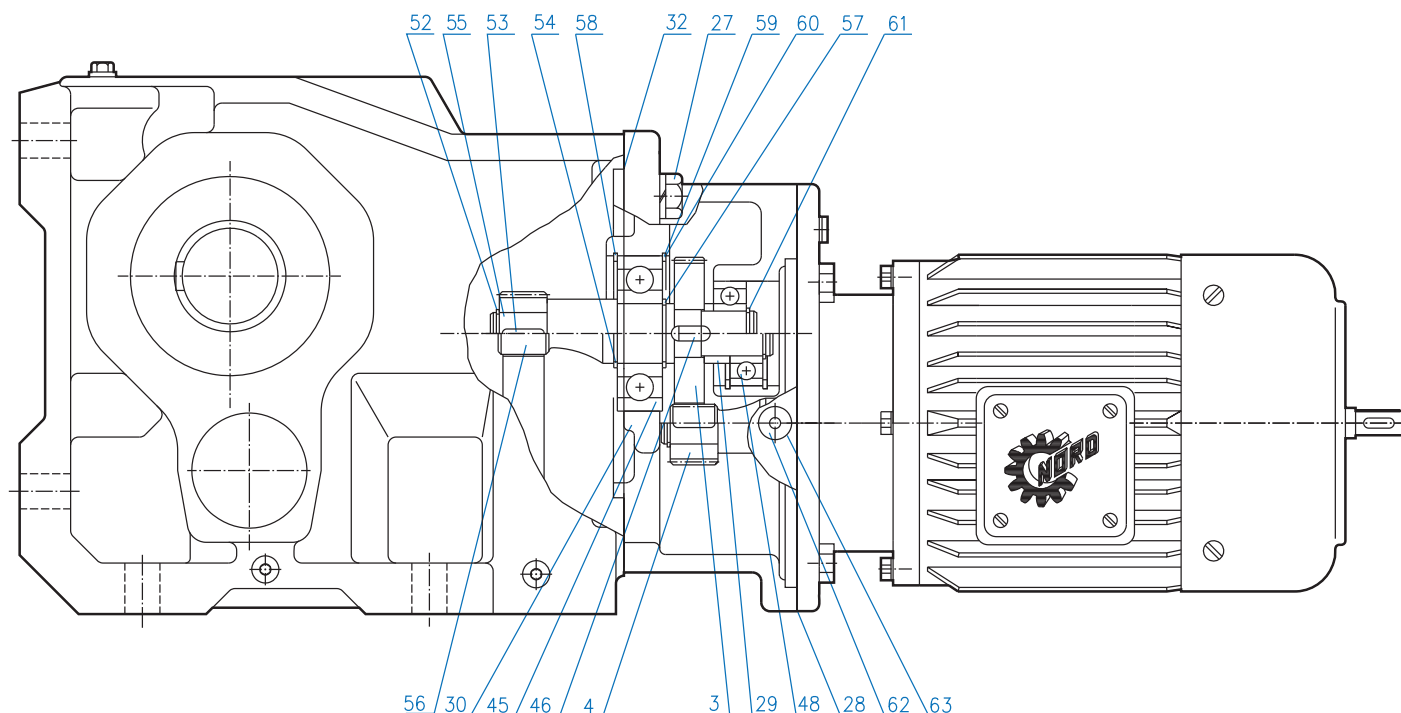
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90.1 HELICAL-BEVEL PARTS LIST DRAWINGS

RETAIN FOR FUTURE USE



U15300 - 8 of 10



SK9013.1 - SK9053.1 Third Stage Reduction Gear

3	Gear	46	Key	58	Snap Ring
4	Pinion	48	Anti-Friction Bearing	59	Shim
27	Bolt	52	Snap Ring	60	Snap Ring
28	Gasket	53	Key	61	Snap Ring
29	Spacer	54	Snap Ring	62	Oil Plug
30	Third Reduction Gearcase	55	Intermediate Shaft, Plain	63	Gasket
32	Gasket	56	Intermediate Shaft, Gearcut		
45	Anti-Friction Bearing	57	Snap Ring		

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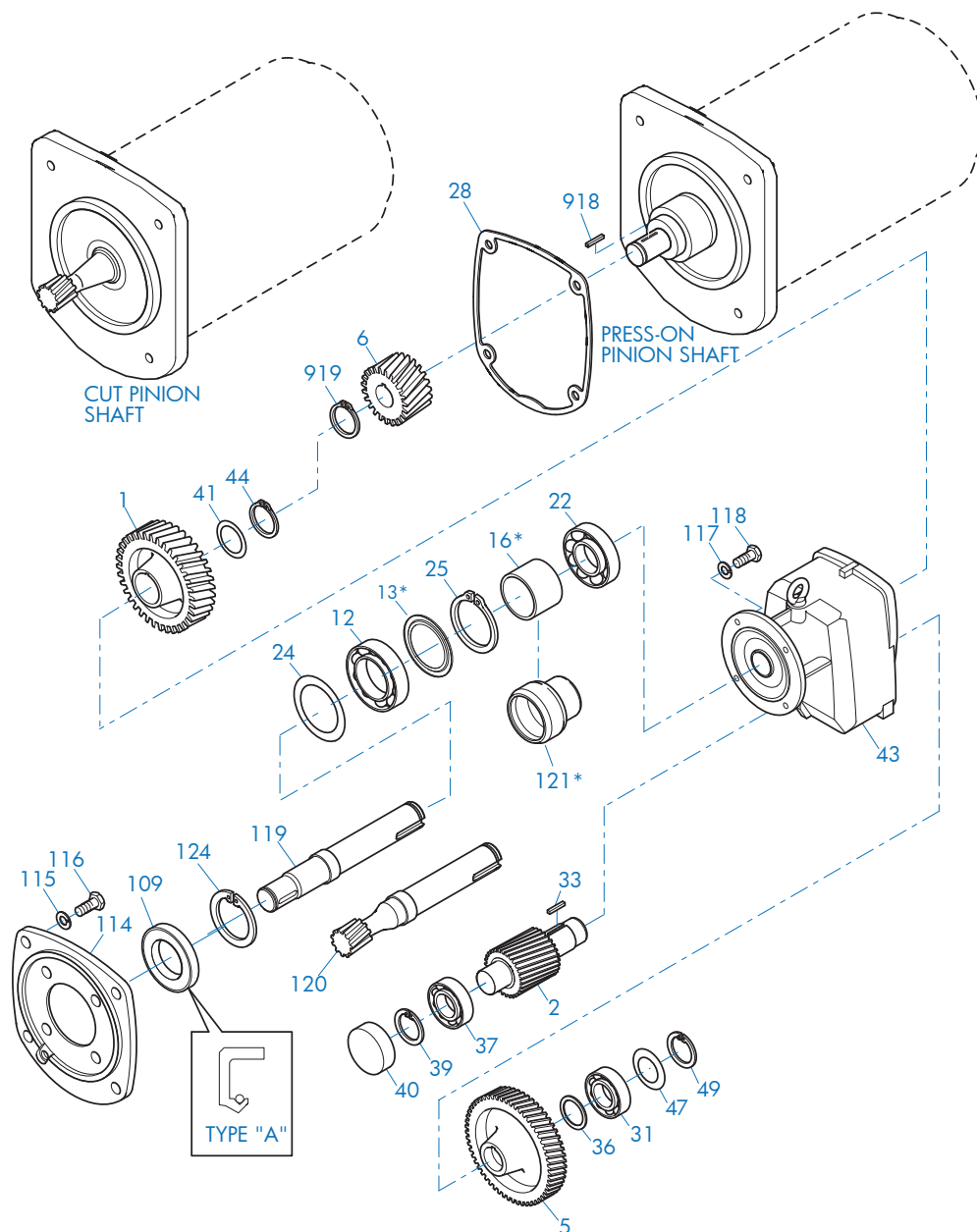
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90.1 HELICAL-BEVEL PARTS LIST DRAWINGS

RETAIN FOR FUTURE USE



U15300 - 9 of 10



SK9062.1/32 - SK9092.1/52 Input Compound Reduction

1 Gear	33 Key	115 Lock Washer
2 Pinion Shaft	36 Spacer	116 Bolt
5 Gear	37 Anti-Friction Bearing	117 Lock Washer
6 Pinion	39 Snap Ring	118 Bolt
12 Anti-Friction Bearing	40 Bore Plug	119 Intermediate Shaft, Plain
13 Nilos Ring*	41 Shim	120 Intermediate Shaft, Gearcut
16 Spacer*	43 Gearcase	121 Bearing Sleeve*
22 Anti-Friction Bearing	44 Snap Ring	124 Snap Ring
24 Shim	47 Shim	918 Key
25 Snap Ring	49 Snap Ring	919 Snap Ring
28 Gasket	109 Oil Seal	
31 Anti-Friction Bearing	114 Intermediate Flange	

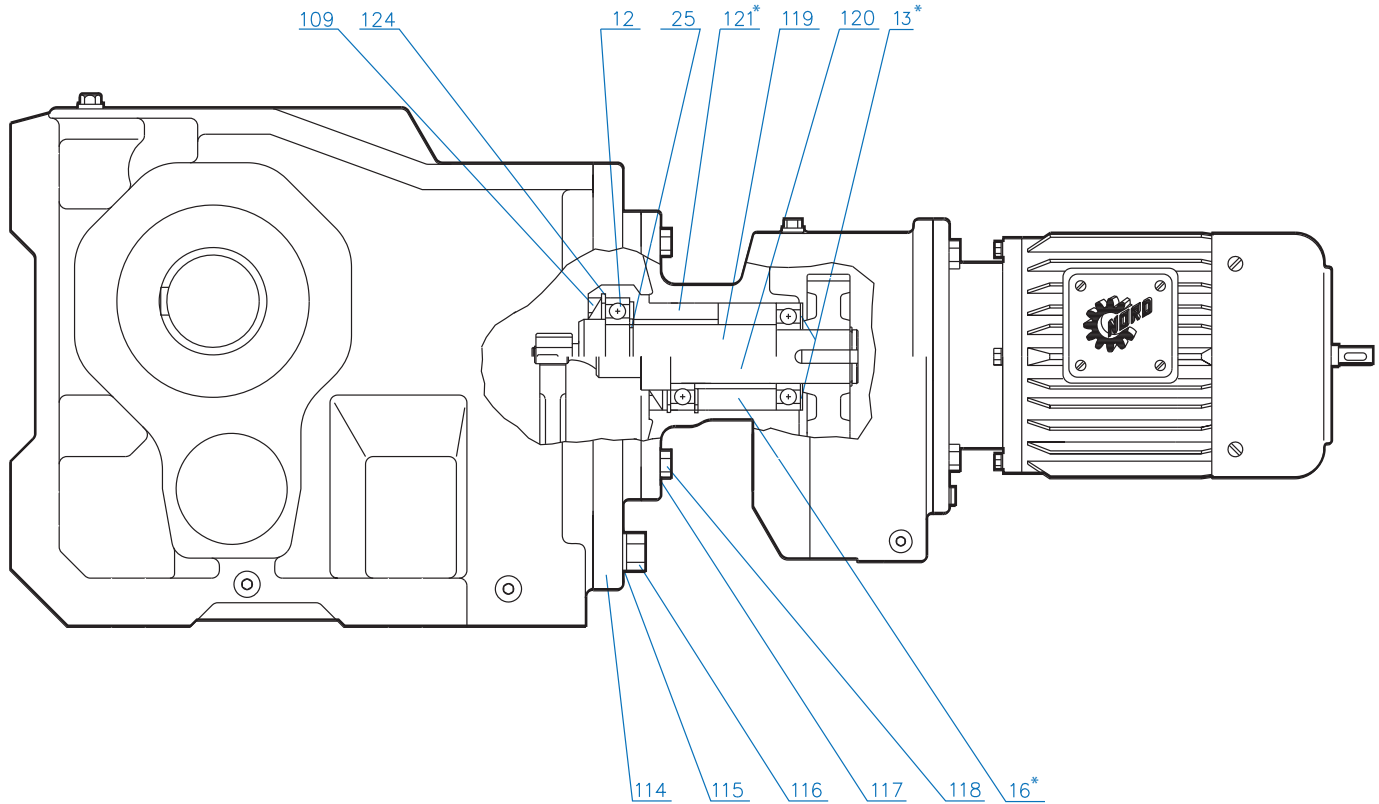
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90.1 HELICAL-BEVEL PARTS LIST DRAWINGS

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SK9062.1/32 - SK9092.1/52 Input Compound Reduction

11 Bearing	114 Intermediate Flange	119 Intermediate Shaft, Plain
13 Nilos Ring*	115 Lock Washer	120 Intermediate Shaft, Gearcut
16 Spacer*	116 Bolt	121 Bearing Sleeve *
25 Snap Ring	117 Lock Washer	124 Snap Ring
109 Oil Seal	118 Bolt	

* Conditionally used part

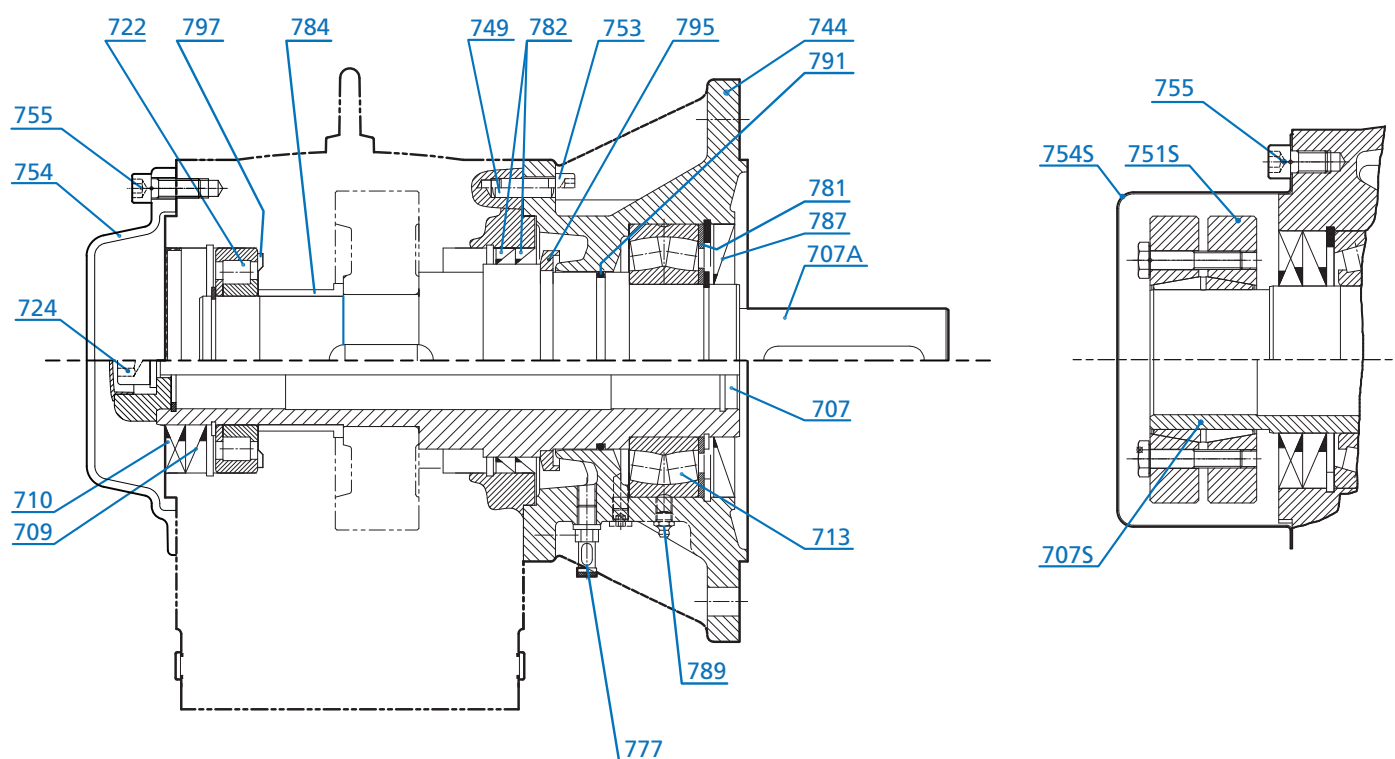


DRIVESYSTEMS

Helical Bevel VL2 & VL3 PARTS LIST DRAWINGS



U15310 - 1 of 1



Helical Bevel VL2 & VL3

707	Hollow Output Shaft	744	Flange VLII & VLIII	782	Seal
707A	Output Shaft	749	Dowel Pin	784	Spacer VLIII
707S	Shrink Disk Hollow Shaft	751S	Shrink Disk	787	Seal
709	Seal	753	Screw	789	Grease Fitting
710	Seal	754	Shaft Cover	791	O-Ring
711	Snap Ring	755	Shaft Cover Screw	795	Oil Slinger (VLIII Only)
713	Bearing	777	Drain Plug (VLII)	797	NILOS Ring
722	Bearing	777	Oil Indicator (VLIII Only)		
724	Fixing Kit	781	Axial Shim		

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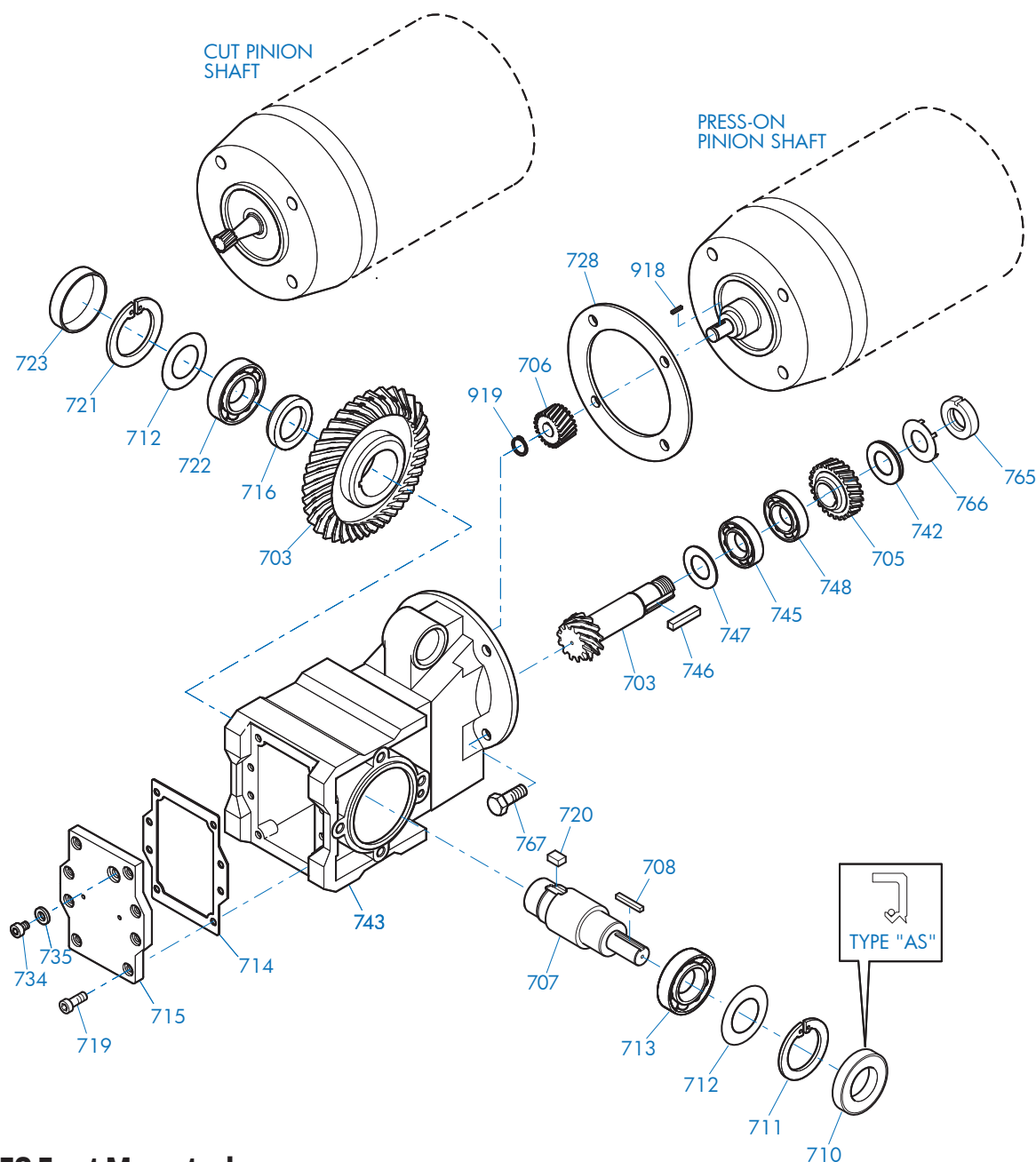
DRIVESYSTEMS

92 SERIES HELICAL-BEVEL PARTS LIST DRAWINGS

RETAIN FOR FUTURE USE



U15400 - 1 of 7



SK 92072 Foot Mounted

703 Bevel Gearset	716 Spacer	745 Anti-Friction Bearing
705 Gear	719 Bolt	746 Key
706 Pinion	720 Key	747 Shim
707 Output Shaft	721 Snap Ring	748 Anti-Friction Bearing
708 Key	722 Anti-Friction Bearing	765 Slotted Nut
710 Oil Seal	723 Bore Plug	766 Tab Lock Washer
711 Snap Ring	728 Gasket	767 Bolt
712 Shim	734 Oil Plug	918 Key
713 Anti-Friction Bearing	735 Gasket	919 Snap Ring
714 Gasket	742 Thrust Washer	
715 Inspection Cover	743 Gear case	

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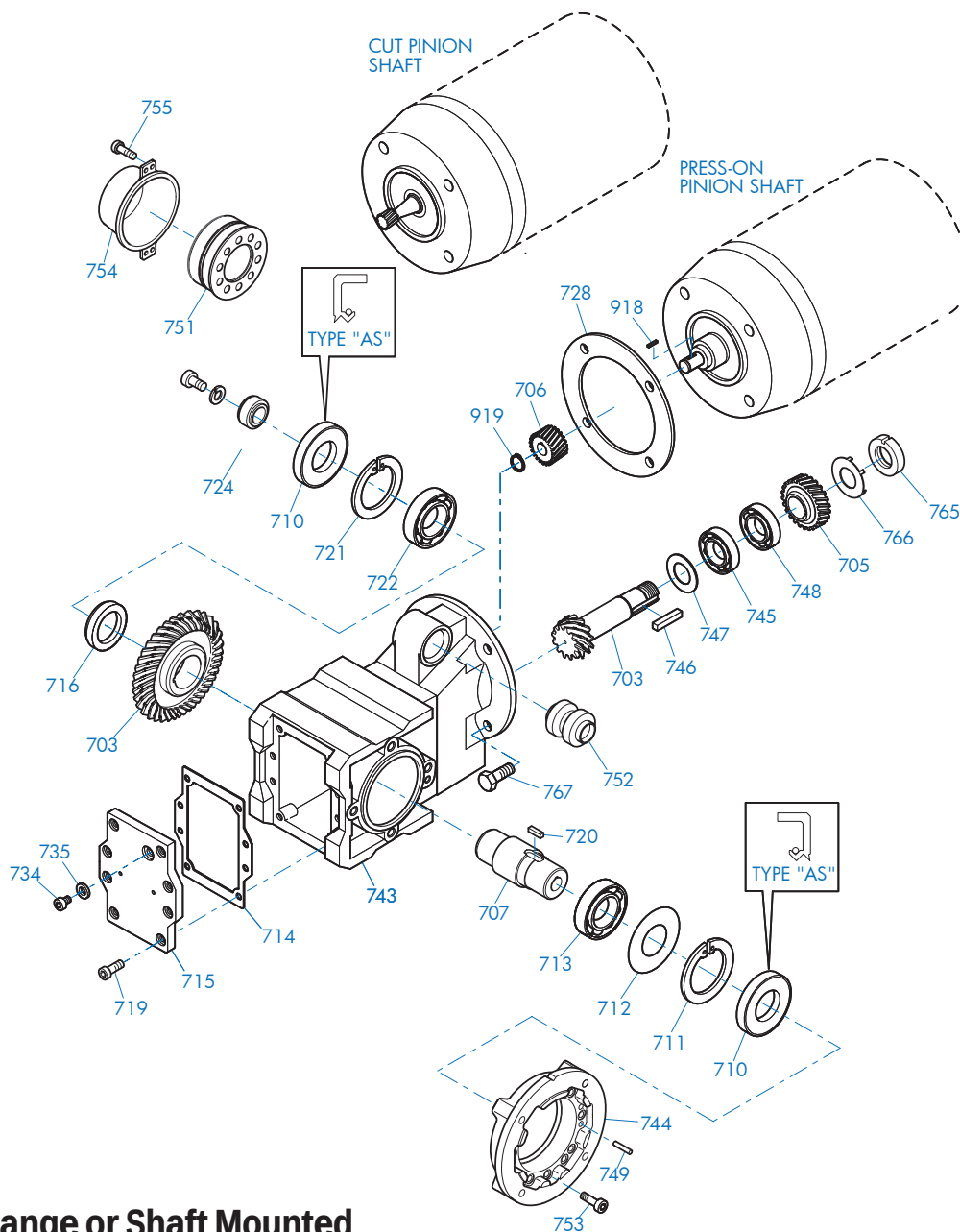
DRIVESYSTEMS

92 SERIES HELICAL-BEVEL PARTS LIST DRAWINGS

RETAIN FOR FUTURE USE



U15400 - 2 of 7



SK 92072 Flange or Shaft Mounted

703 Bevel Gearset	720 Key	748 Anti-Friction Bearing
705 Gear	721 Snap Ring	749 Grooved Pin
706 Pinion	722 Anti-Friction Bearing	751 Shrink Disc
707 Output Shaft	724 Fixing Element Kit	752 Rubber Buffer
710 Oil Seal	728 Gasket	753 Bolt
711 Snap Ring	734 Oil Plug	754 Cover
712 Shim	735 Gasket	755 Bolt
713 Anti-Friction Bearing	743 Gearcase	765 Slotted Round Nut
714 Gasket	744 Flange	766 Tab Lock Washer
715 Inspection Cover	745 Anti-Friction Bearing	767 Bolt
716 Spacer	746 Key	918 Key
719 Bolt	747 Shim	919 Snap Ring

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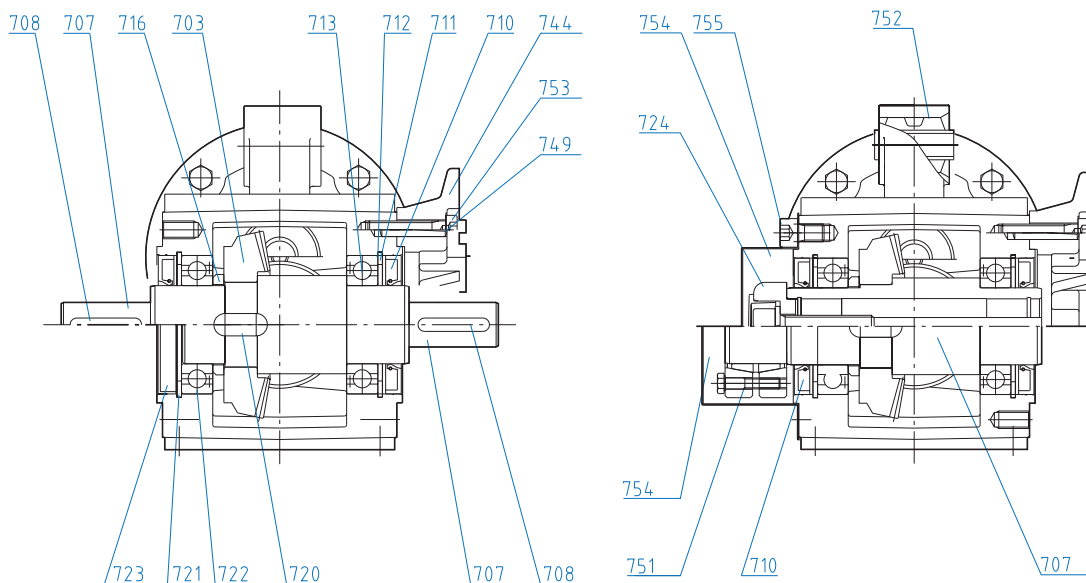
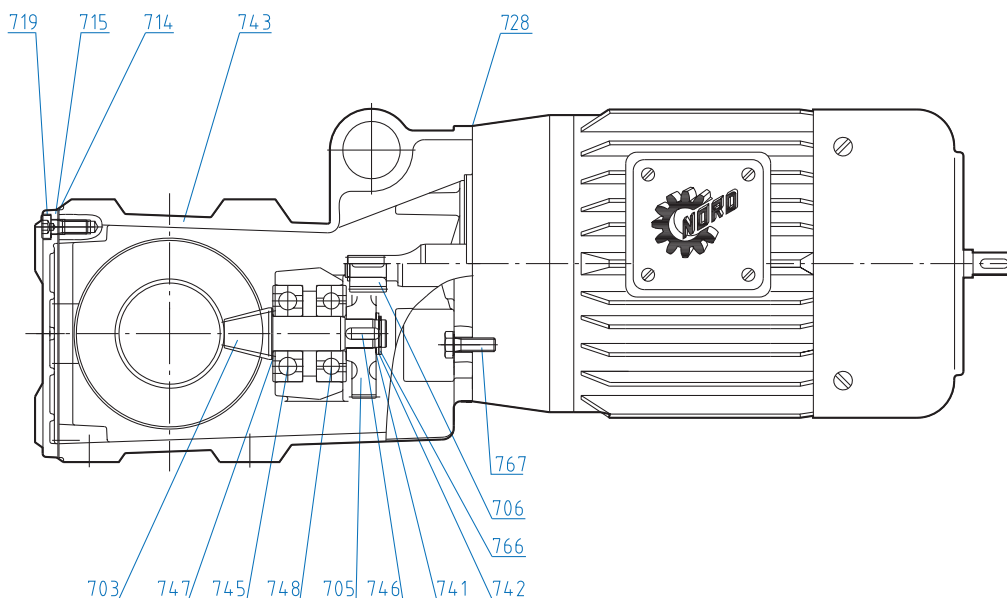


DRIVESYSTEMS

92 SERIES HELICAL-BEVEL PARTS LIST DRAWINGS



U15400 - 3 of 7

**SK 92072**

703 Bevel Gearset

705 Gear

706 Pinion

707 Output Shaft

708 Key

710 Oil Seal

711 Snap Ring

712 Shim

713 Anti-Friction Bearing

714 Gasket

715 Inspection Cover

716 Spacer

719 Bolt

720 Key

721 Snap Ring

722 Anti-Friction Bearing

723 Bore Plug

724 Fixing Element Kit

728 Gasket

741 Shim

742 Thrust Washer

743 Gear case

744 Flange

745 Anti-Friction Bearing

746 Key

747 Shim

748 Anti-Friction Bearing

749 Grooved Pin

751 Shrink Disc Connector

752 Rubber Buffer

753 Socket Head Screw

754 Shrink Disc Cover

755 Socket Head Screw

766 Tab Lock Washer

767 Bolt

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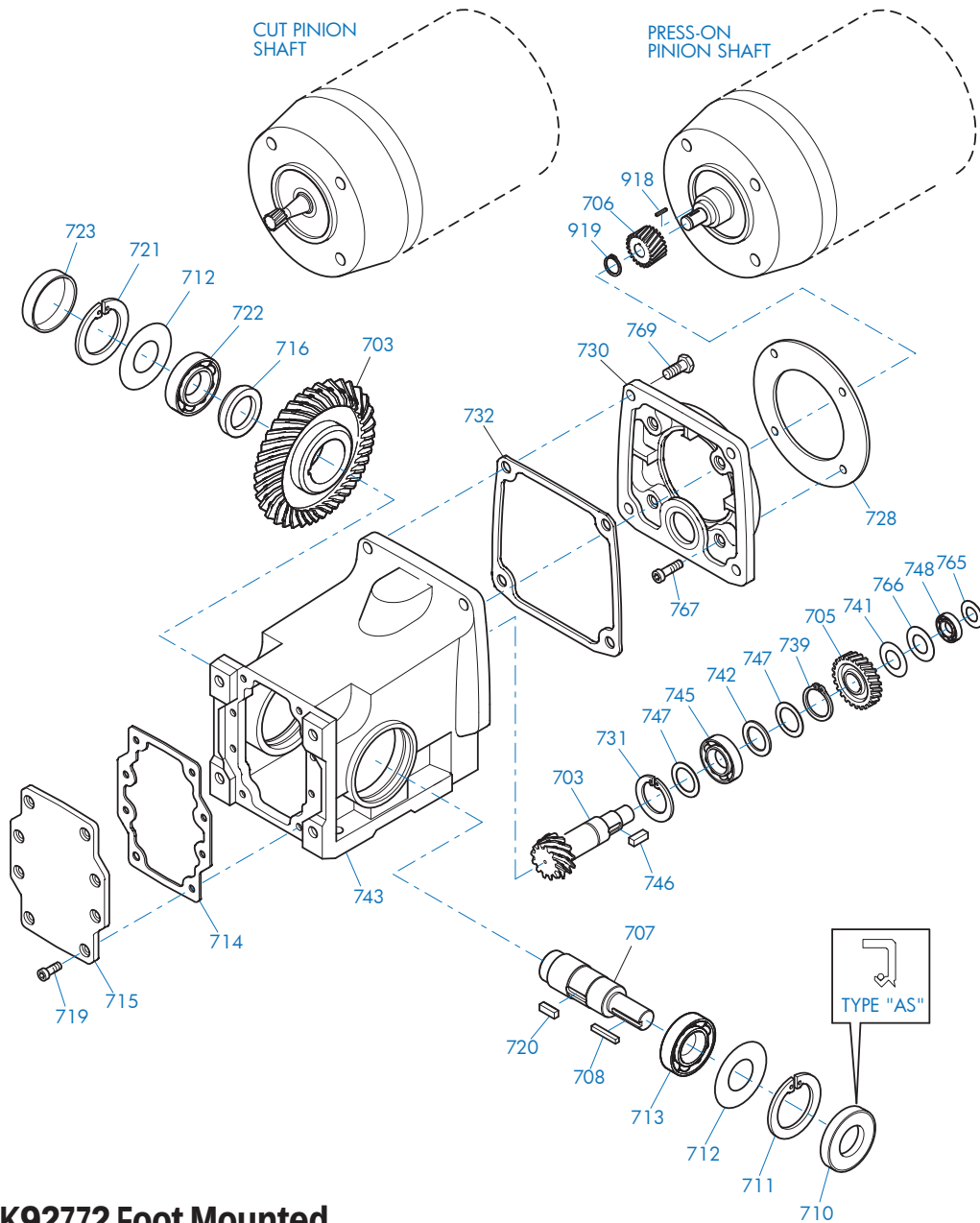
DRIVESYSTEMS

92 SERIES HELICAL-BEVEL PARTS LIST DRAWINGS

RETAIN FOR FUTURE USE



U15400 - 4 of 7



SK 92172 - SK92772 Foot Mounted

703 Bevel Gearset	719 Bolt	743 Gearcase
705 Gear	720 Key	745 Anti-Friction Bearing
706 Pinion	721 Snap Ring	746 Key
707 Output Shaft	722 Anti-Friction Bearing	747 Shim
708 Key	723 Bore Plug	748 Anti-Friction Bearing
710 Oil Seal	728 Gasket	765 Shim
711 Snap Ring	730 Input Cover	766 Snap Ring
712 Shim	731 Snap Ring	767 Bolt
713 Anti-Friction Bearing	732 Gasket	769 Bolt
714 Gasket	739 Snap Ring	918 Key
715 Inspection Cover	741 Shim	919 Snap Ring
716 Spacer	742 Thrust Washer	

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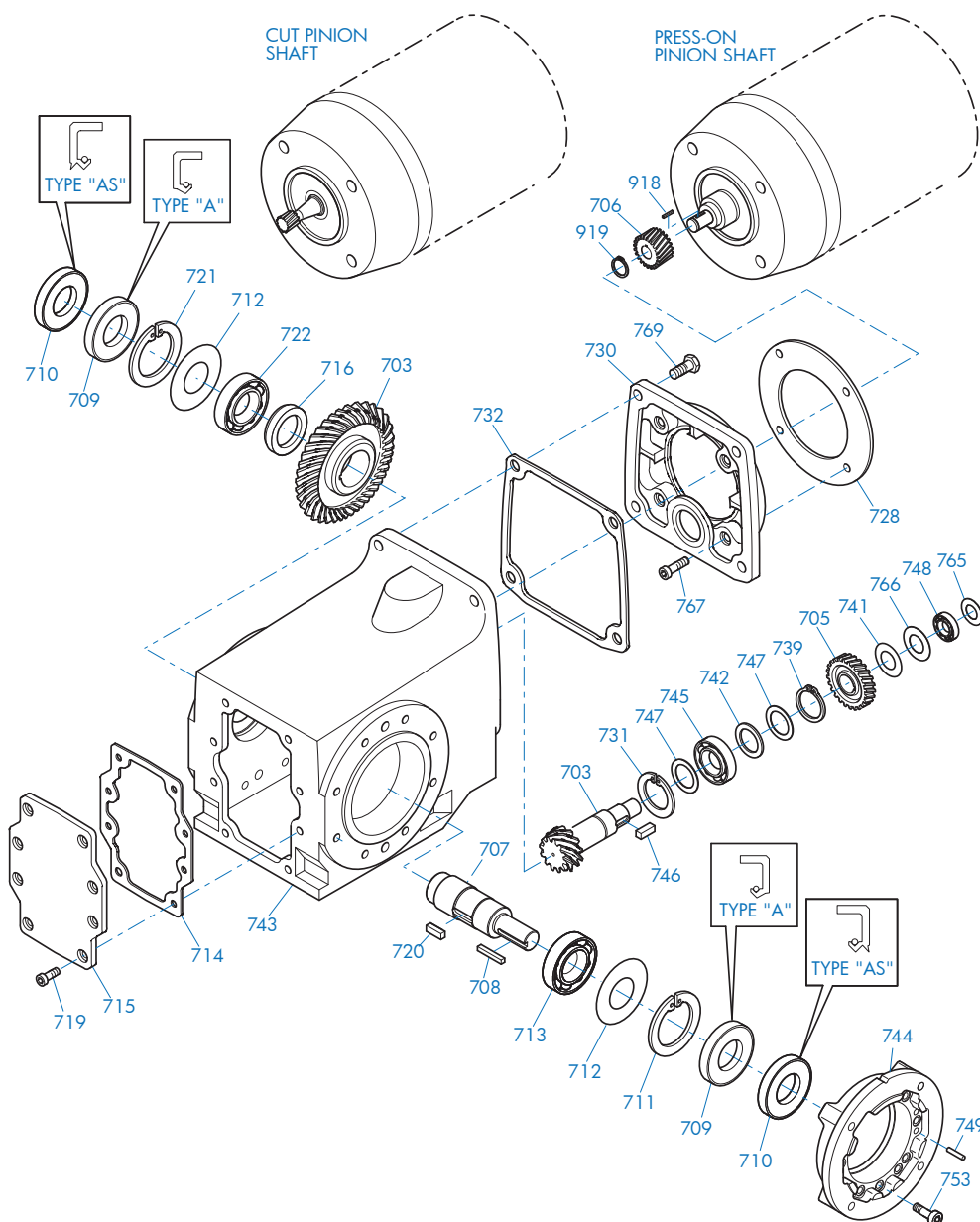
DRIVESYSTEMS

92 SERIES HELICAL-BEVEL PARTS LIST DRAWINGS

RETAIN FOR FUTURE USE



U15400 - 5 of 7



SK 92172 - SK92772 Solid Shaft + Flange Mount

703 Bevel Gearset	719 Bolt	745 Anti-Friction Bearing
705 Gear	720 Key	746 Key
706 Pinion	721 Snap Ring	747 Shim
707 Output Shaft	722 Anti-Friction Bearing	748 Anti-Friction Bearing
708 Key	728 Gasket	749 Grooved Pin
709 Oil Seal	730 Input Cover	753 Bolt
710 Oil Seal	731 Snap Ring	765 Shim
711 Snap Ring	732 Gasket	766 Snap Ring
712 Shim	739 Snap Ring	767 Bolt
713 Anti-Friction Bearing	741 Shim	769 Bolt
714 Gasket	742 Thrust Washer	918 Key
715 Inspection Cover	743 Gearcase	919 Snap Ring
716 Spacer	744 Flange	

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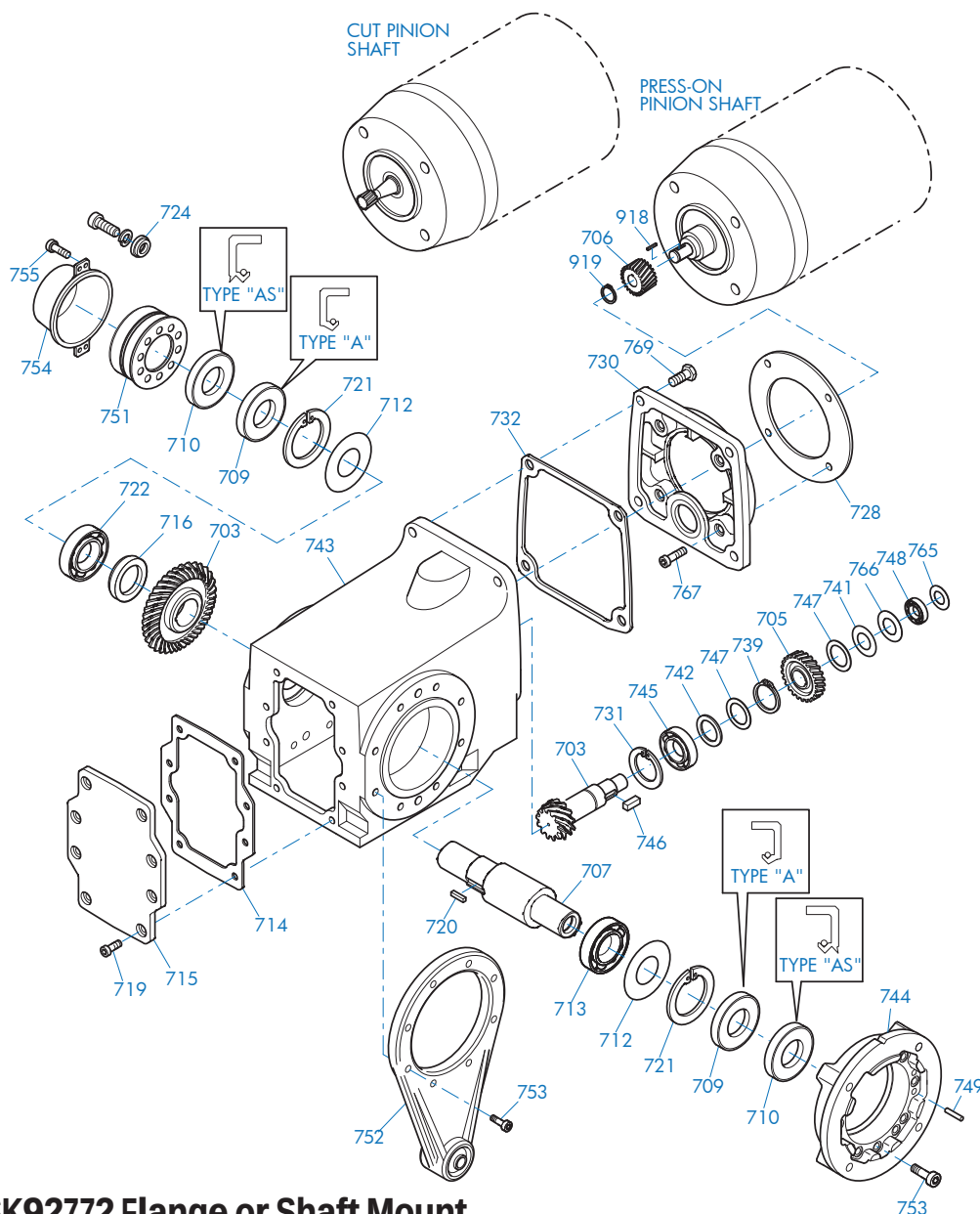
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92 SERIES HELICAL-BEVEL PARTS LIST DRAWINGS

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U15400 - 6 of 7



SK 92172 - SK92772 Flange or Shaft Mount

703 Bevel Gearset	722 Anti-Friction Bearing	748 Anti-Friction Bearing
705 Gear	724 Fixing Element Kit	749 Grooved Pin
706 Pinion	728 Gasket	751 Shrink Disc Connector
707 Output Shaft	730 Input Cover	752 Torque Arm
709 Oil Seal	731 Snap Ring	753 Bolt
710 Oil Seal	732 Gasket	754 Cover
712 Shim	739 Snap Ring	755 Bolt
713 Anti-Friction Bearing	741 Shim	765 Shim
714 Gasket	742 Thrust Washer	766 Snap Ring
715 Inspection Cover	743 Gearcase	767 Bolt
716 Spacer	744 Flange	769 Bolt
719 Bolt	745 Anti-Friction Bearing	918 Key
720 Key	746 Key	919 Snap Ring
721 Snap Ring	747 Shim	

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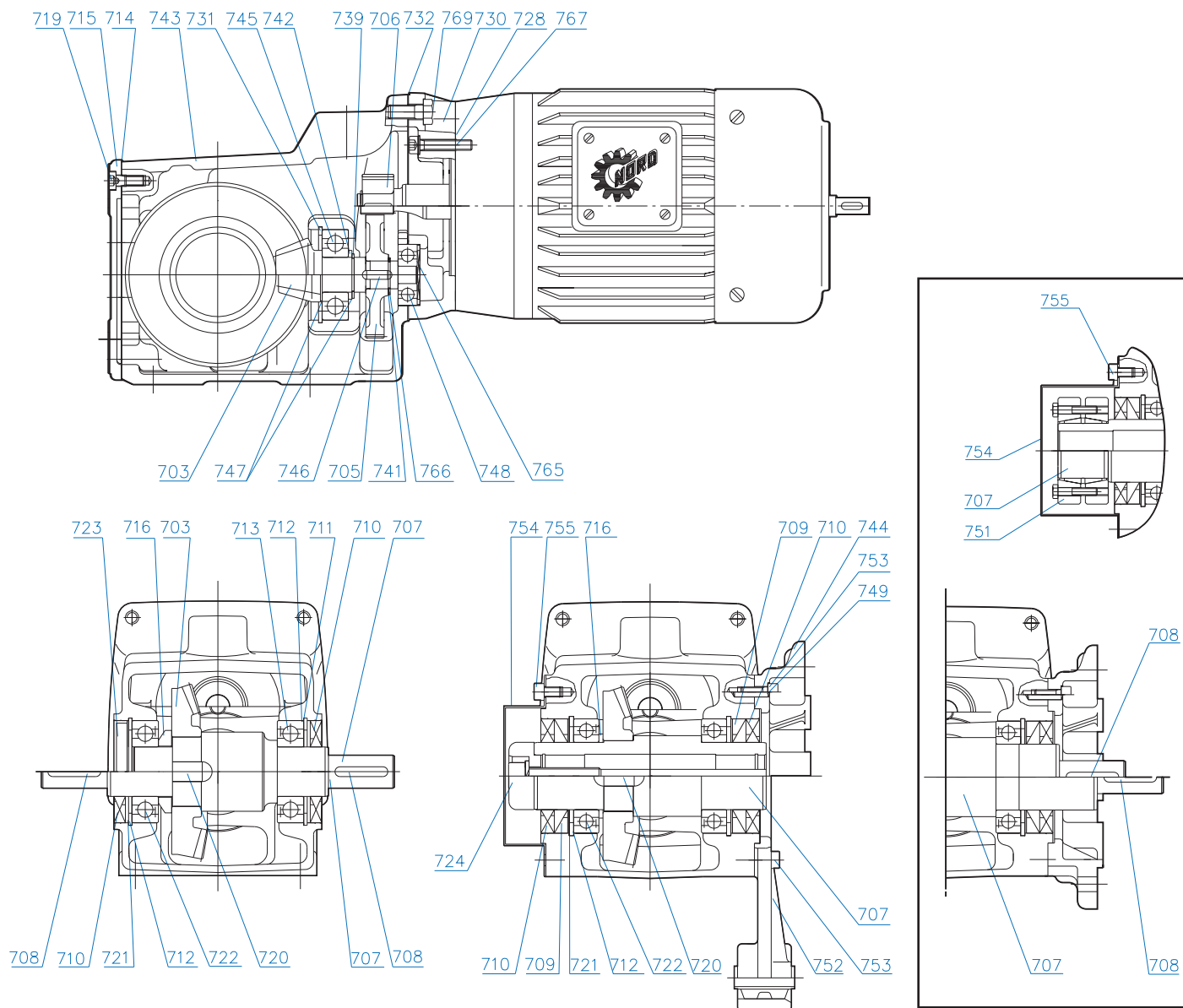
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U15400 - 7 of 7



SK 92172 - SK 92772

703 Bevel Gearset	720 Key	745 Anti-Friction Bearing
705 Gear	721 Snap Ring	746 Key
706 Pinion	722 Anti-Friction Bearing	747 Shim
707 Output Shaft	723 Sealing Plug	748 Anti-Friction Bearing
708 Key	724 Fixing Element Kit	749 Grooved Pin
709 Oil Seal	728 Gasket	751 Shrink Disc Connector
710 Oil Seal	730 Gearbox Cover	752 Torque Arm
711 Snap Ring	731 Snap Ring	753 Bolt
712 Shim	732 Gasket	754 Cover
713 Anti-Friction Bearing	739 Snap Ring	755 Bolt
714 Gasket	741 Shim	765 Slotted Round Nut
715 Inspection Cover	742 Thrust Washer	766 Tab Lock Washer
716 Spacer	743 Gearcase	767 Bolt
719 Bolt	744 Flange	769 Hexagonal Screw

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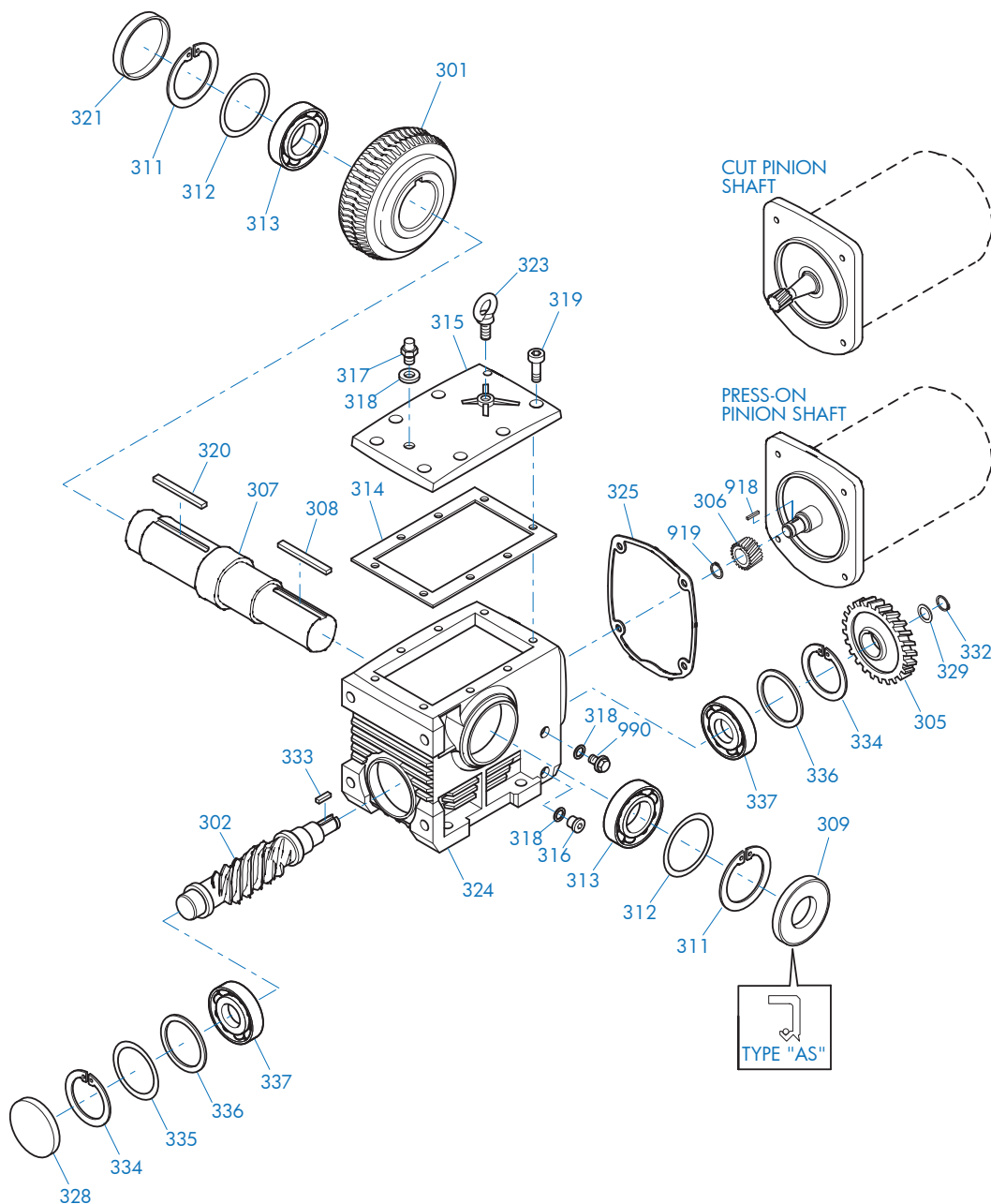
DRIVESYSTEMS

HELICAL-WORM PARTS LIST DRAWINGS

RETAIN FOR FUTURE USE



U15500 - 1 of 11



SK 02040 - SK 42125 Foot Mounted

301 Worm Wheel	315 Inspection Cover	329 Thrust Washer
302 Worm	316 Drain Plug	332 Snap Ring
305 Gear	317 Vent Plug	333 Key
306 Pinion	318 Gasket	334 Snap Ring
307 Output Shaft	319 Socket Head Screw	335 Shim
308 Key	320 Key	336 Thrust Washer
309 Oil Seal	321 Bore Plug	337 Anti-Friction Bearing
311 Snap Ring	323 Flanged Eye Bolt	918 Key
312 Shim	324 Gearcase	919 Snap Ring
313 Anti-Friction Bearing	325 Gasket	990 Oil Level Plug
314 Gasket	328 Bore Plug	

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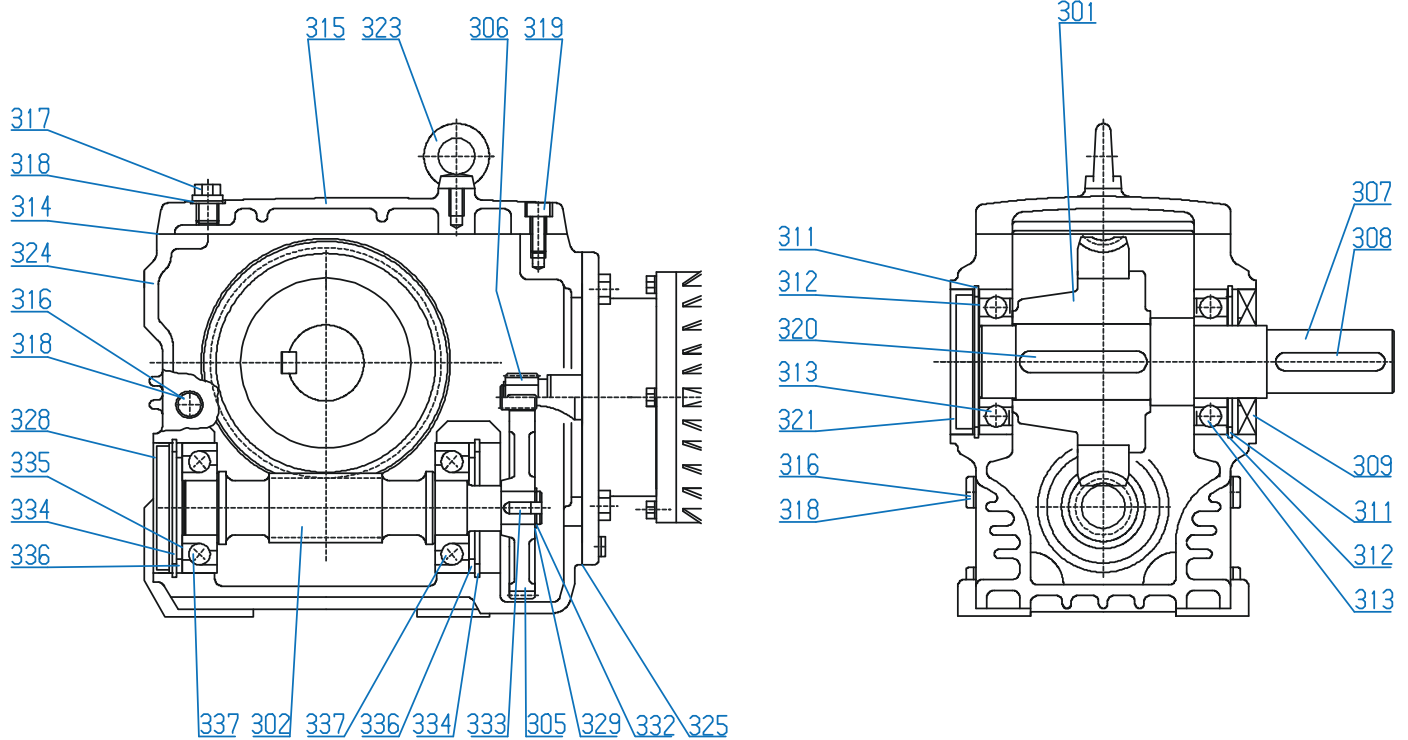
DRIVESYSTEMS

HELICAL-WORM PARTS LIST DRAWINGS

RETAIN FOR FUTURE USE



U15500 - 2 of 11



SK 02040 - SK 42125 Foot Mounted

301 Worm Wheel	314 Gasket	325 Gasket
302 Worm	315 Inspection Cover	328 Bore Plug
305 Gear	316 Drain Plug	329 Thrust Washer
306 Pinion	317 Vent Plug	332 Snap Ring
307 Output Shaft	318 Gasket	333 Key
308 Key	319 Socket Head Screw	334 Snap Ring
309 Oil Seal	320 Key	335 Shim
311 Snap Ring	321 Bore Plug	336 Thrust Washer
312 Shim	323 Flanged Eye Bolt	337 Anti-Friction Bearing
313 Anti-Friction Bearing	324 Gearcase	

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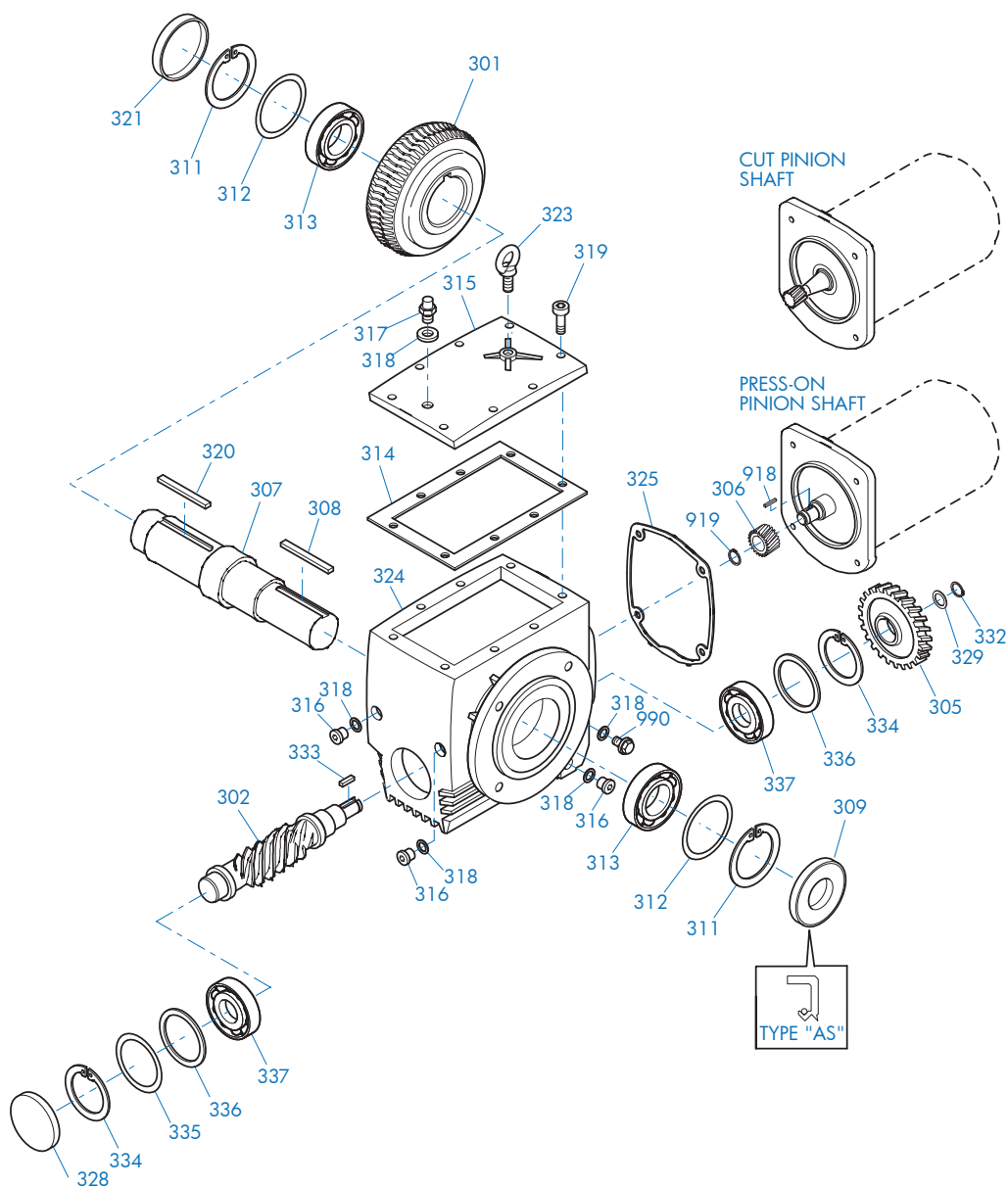
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HELICAL-WORM PARTS LIST DRAWINGS

RETAIN FOR FUTURE USE



U15500 - 3 of 11



SK 02040 - SK 42125 Flange Mounted

301 Worm Wheel	315 Inspection Cover	329 Thrust Washer
302 Worm	316 Drain Plug	332 Snap Ring
305 Gear	317 Vent Plug	333 Key
306 Pinion	318 Gasket	334 Snap Ring
307 Output Shaft	319 Socket Head Screw	335 Shim
308 Key	320 Key	336 Thrust Washer
309 Oil Seal	321 Bore Plug	337 Anti-Friction Bearing
311 Snap Ring	323 Flanged Eye Bolt	918 Key
312 Shim	324 Gearcase	919 Snap Ring
313 Anti-Friction Bearing	325 Gasket	990 Oil Level Plug
314 Gasket	328 Bore Plug	

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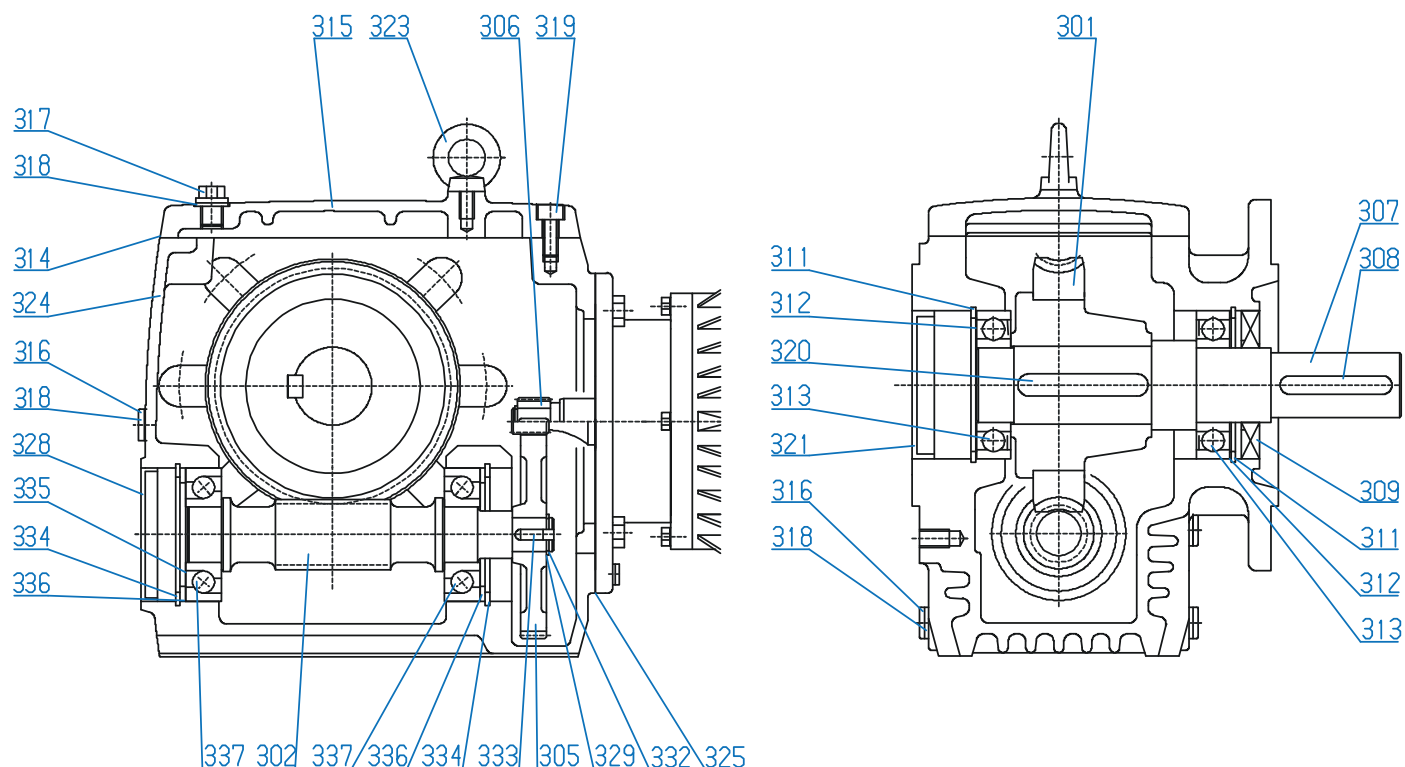
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HELICAL-WORM PARTS LIST DRAWINGS

RETAIN FOR FUTURE USE



U15500 - 4 of 11



SK 02040 - SK 42125 Flange Mounted

301 Worm Wheel	314 Gasket	325 Gasket
302 Worm	315 Inspection Cover	328 Bore Plug
305 Gear	316 Drain Plug	329 Thrust Washer
306 Pinion	317 Vent Plug	332 Snap Ring
307 Output Shaft	318 Gasket	333 Key
308 Key	319 Socket Head Screw	334 Snap Ring
309 Oil Seal	320 Key	335 Shim
311 Snap Ring	321 Bore Plug	336 Thrust Washer
312 Shim	323 Flanged Eye Bolt	337 Anti-Friction Bearing
313 Anti-Friction Bearing	324 Gearcase	

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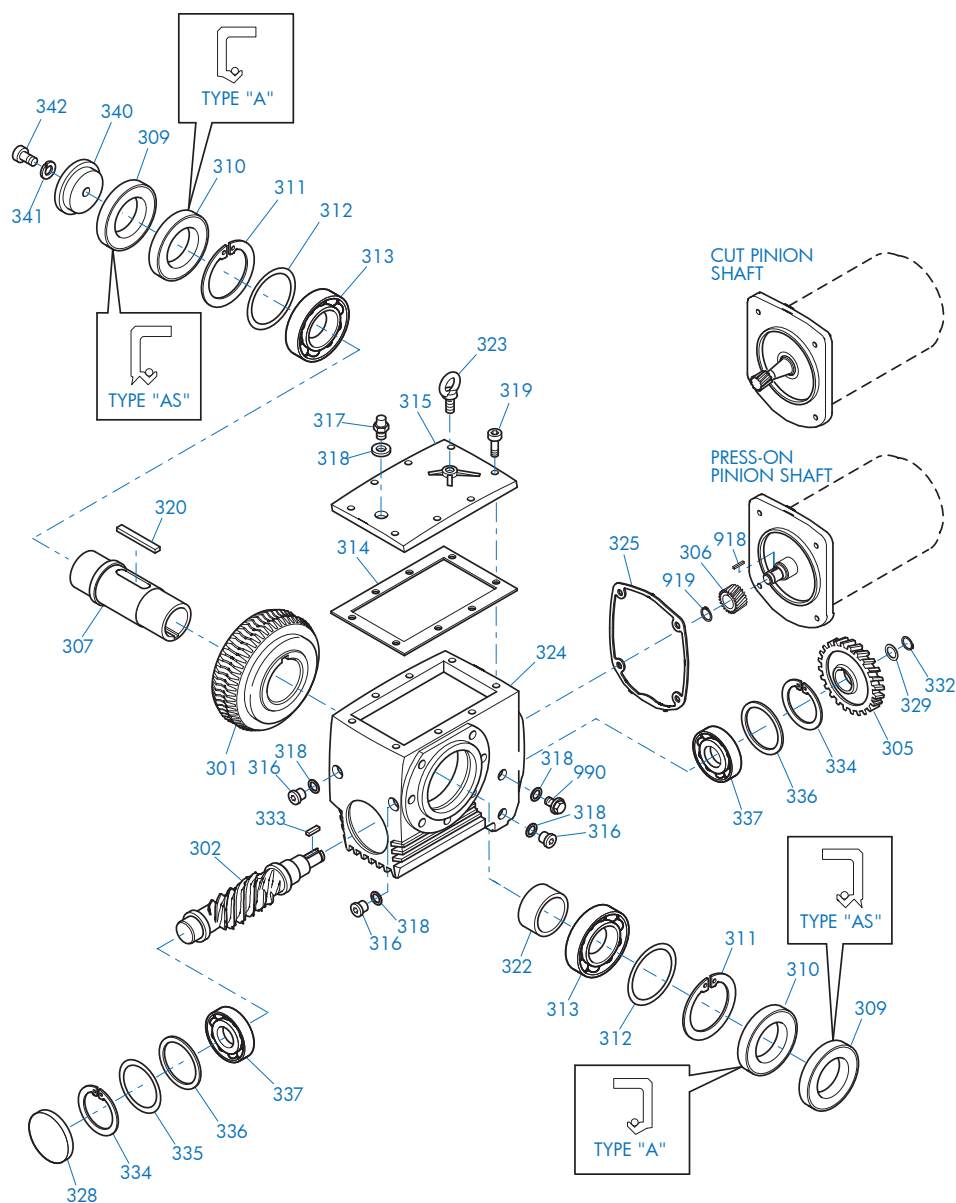
DRIVESYSTEMS

HELICAL-WORM PARTS LIST DRAWINGS

RETAIN FOR FUTURE USE



U15500 - 5 of 11



SK 02040 - SK 42125 Shaft Mounted

301 Worm Wheel	317 Vent Plug	335 Shim
302 Worm	318 Gasket	336 Thrust Washer
305 Gear	319 Socket Head Screw	337 Anti-Friction Bearing
306 Pinion	320 Key	340 Retaining Washer
307 Output Shaft	322 Spacer	341 Lock Washer
309 Oil Seal	323 Flanged Eye Bolt	342 Bolt
310 Oil Seal	324 Gearcase	350 Flange
311 Snap Ring	325 Gasket	351 Bolt
312 Shim	328 Bore Plug	918 Key
313 Anti-Friction Bearing	329 Thrust Washer	919 Snap Ring
314 Gasket	332 Snap Ring	990 Oil Level Plug
315 Inspection Cover	333 Key	
316 Drain Plug	334 Snap Ring	

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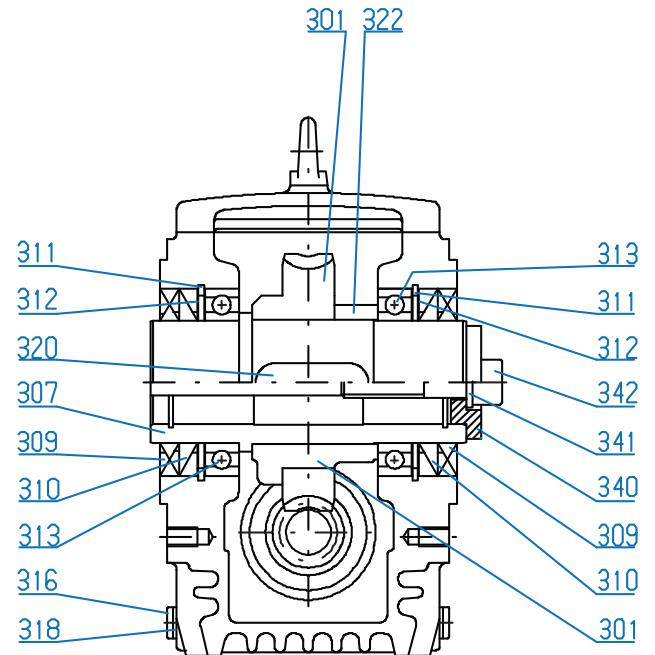
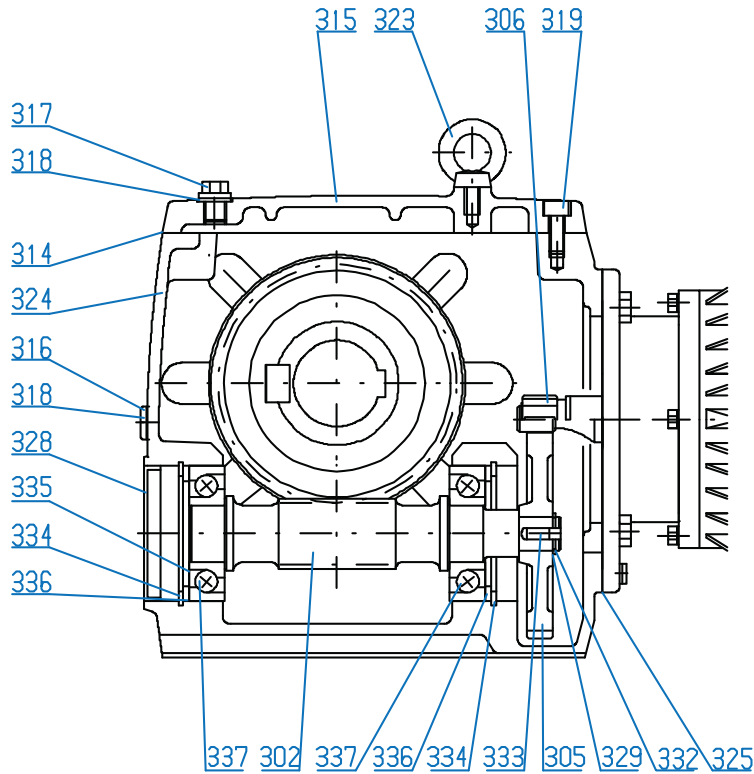
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HELICAL-WORM PARTS LIST DRAWINGS

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SK 02040 - SK 42125 Shaft Mounted

301 Worm Wheel	316 Drain Plug	333 Key
302 Worm	317 Vent Plug	334 Snap Ring
305 Gear	318 Gasket	335 Shim
306 Pinion	319 Socket Head Screw	336 Thrust Washer
307 Output Shaft	320 Key	337 Anti-Friction Bearing
309 Oil Seal	322 Spacer	340 Retaining Washer
310 Oil Seal	323 Flanged Eye Bolt	341 Lock Washer
311 Snap Ring	324 Gearcase	342 Bolt
312 Shim	325 Gasket	350 Flange
313 Anti-Friction Bearing	328 Bore Plug	351 Bolt
314 Gasket	329 Thrust Washer	
315 Inspection Cover	332 Snap Ring	



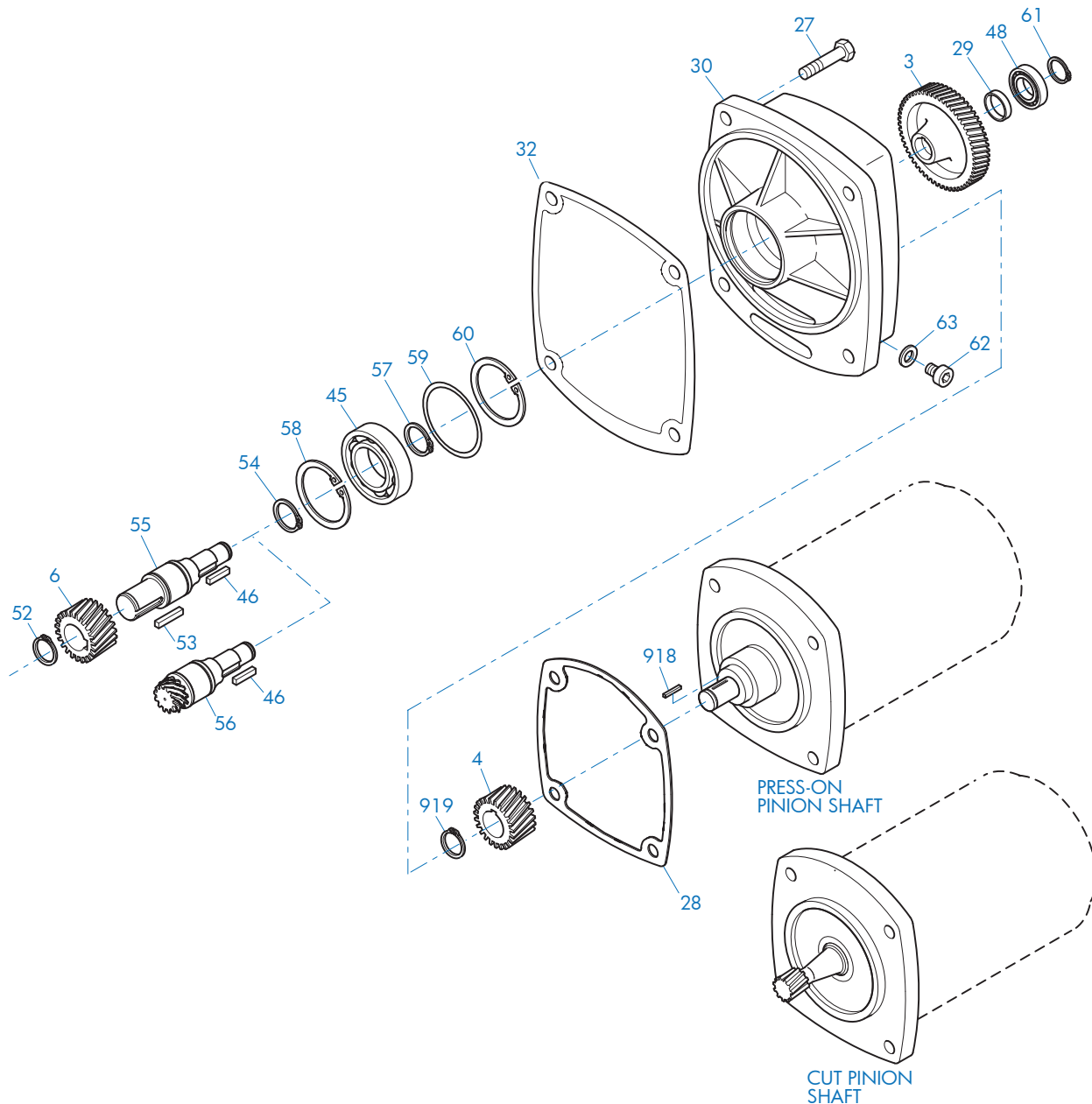
DRIVESYSTEMS

HELICAL-WORM PARTS LIST DRAWINGS

RETAIN FOR FUTURE USE



U15500 - 7 of 11



SK13050 - SK43125 Third Stage Reduction Gear

3	Gear	46	Key	59	Shim
4	Pinion	48	Anti-Friction Bearing	60	Snap Ring
6	Pinion	52	Snap Ring	61	Snap Ring
27	Bolt	53	Key	62	Oil Plug
28	Gasket	54	Snap Ring	63	Gasket
29	Spacer	55	Intermediate Shaft, Plain	918	Key
30	Third Reduction Gearcase	56	Intermediate Shaft, Gearcut	919	Snap Ring
32	Gasket	57	Snap Ring		
45	Anti-Friction Bearing	58	Snap Ring		

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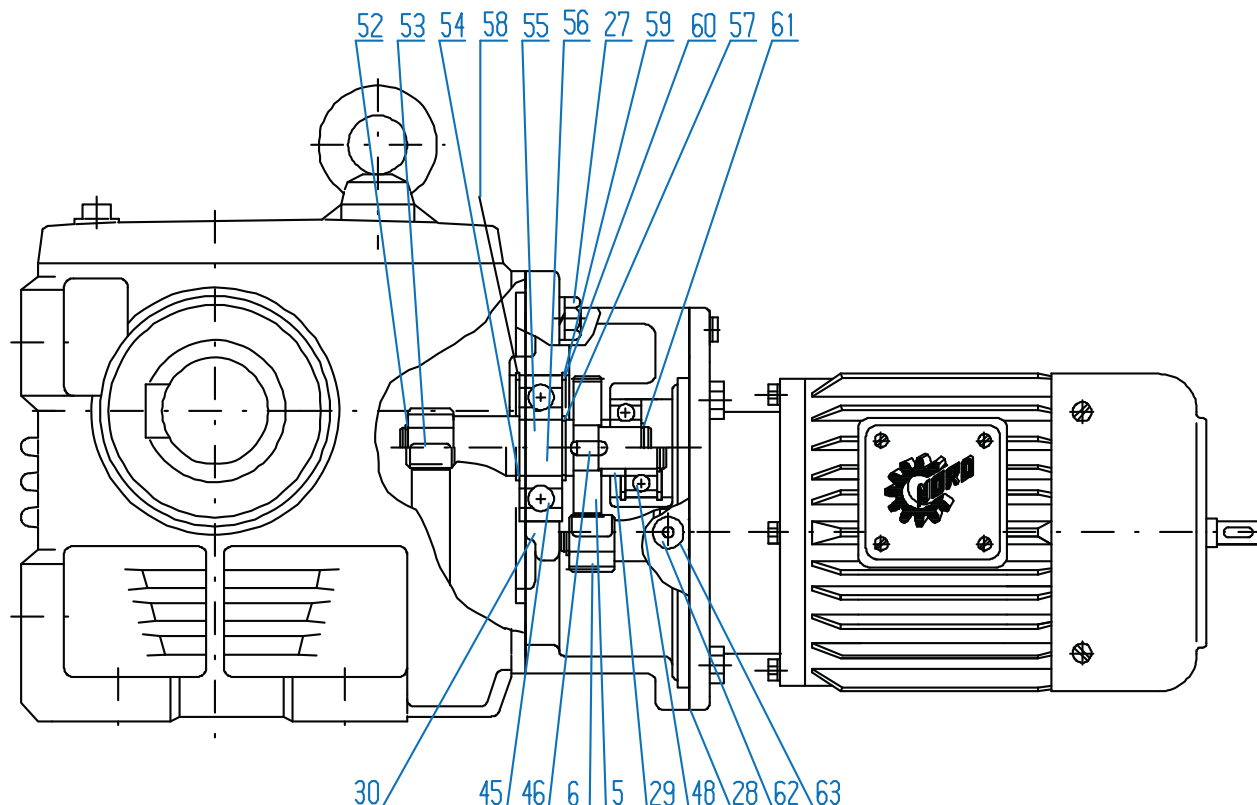
DRIVESYSTEMS

HELICAL-WORM PARTS LIST DRAWINGS

RETAIN FOR FUTURE USE



U15500 - 8 of 11



SK13050 - SK43125 Third Stage Reduction Gear

3	Gear	46	Key	58	Snap Ring
4	Pinion	48	Anti-Friction Bearing	59	Shim
27	Bolt	52	Snap Ring	60	Snap Ring
28	Gasket	53	Key	61	Snap Ring
29	Spacer	54	Snap Ring	62	Oil Plug
30	Third Reduction Gearcase	55	Intermediate Shaft, Plain	63	Gasket
32	Gasket	56	Intermediate Shaft, Gearcut		
45	Anti-Friction Bearing	57	Snap Ring		

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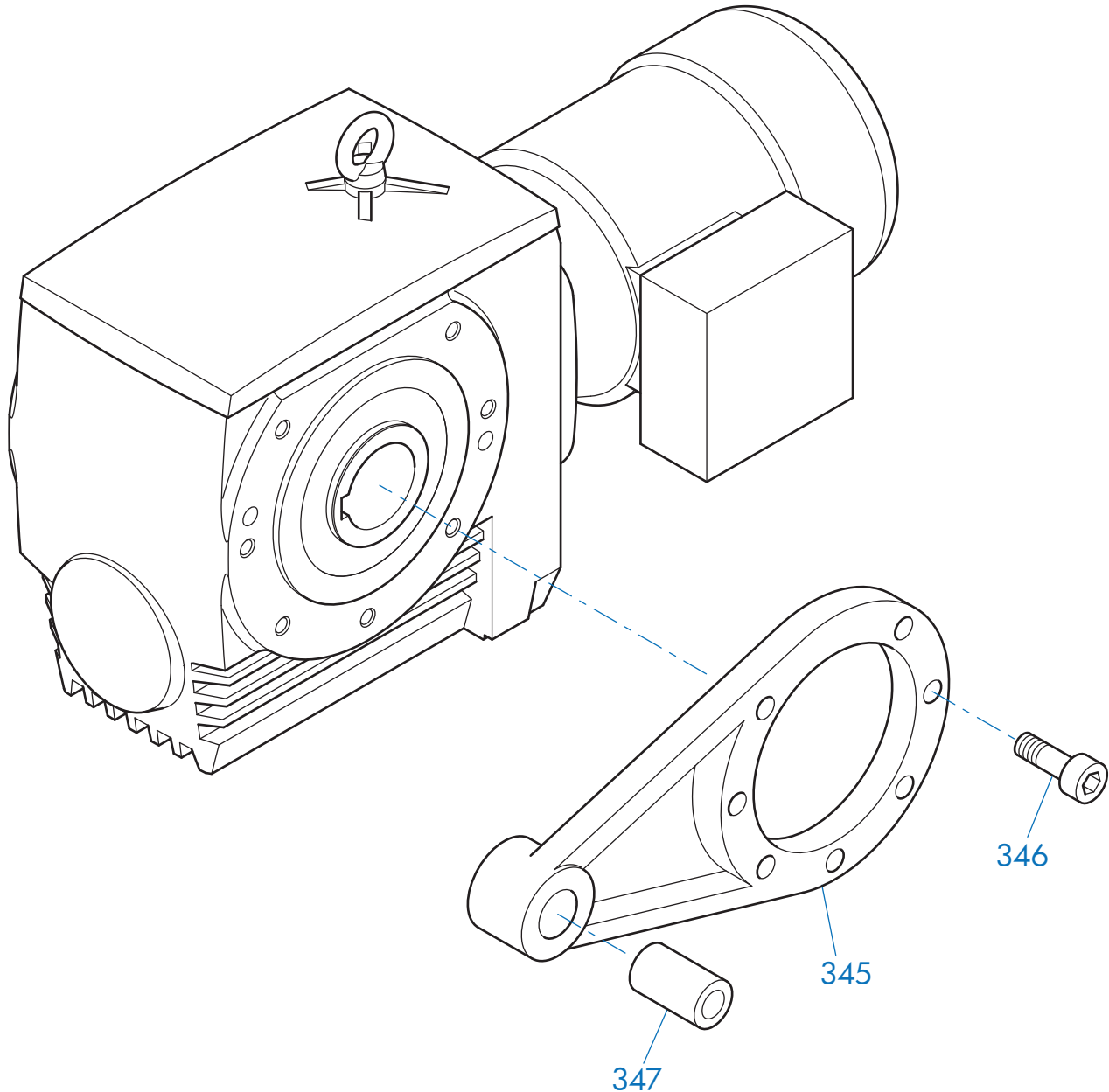
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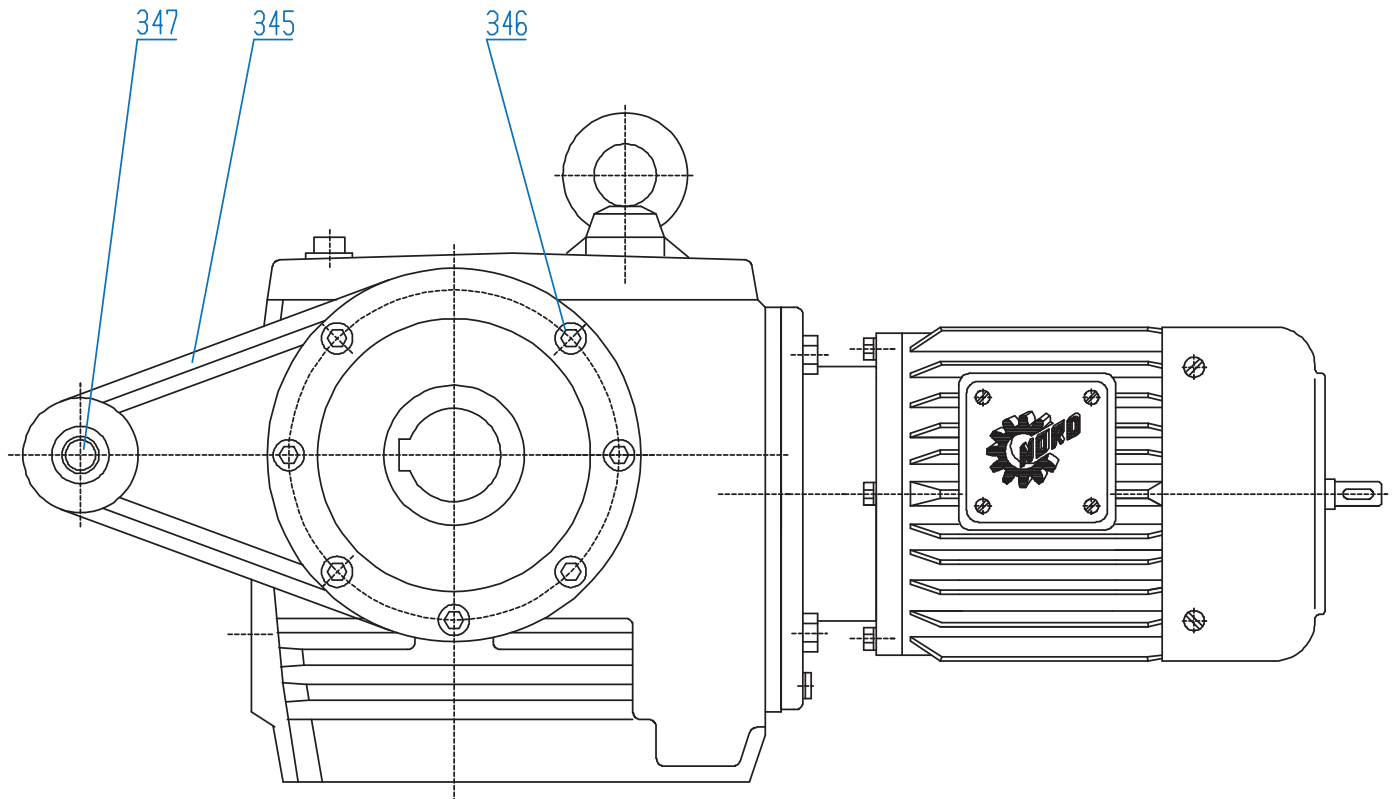


SK13050 - SK43125 Torque Arm

345 Torque Arm

346 Bolt

347 Bushing



SK13050 - SK43125 Torque Arm

345 Torque Arm

346 Bolt

347 Bushing



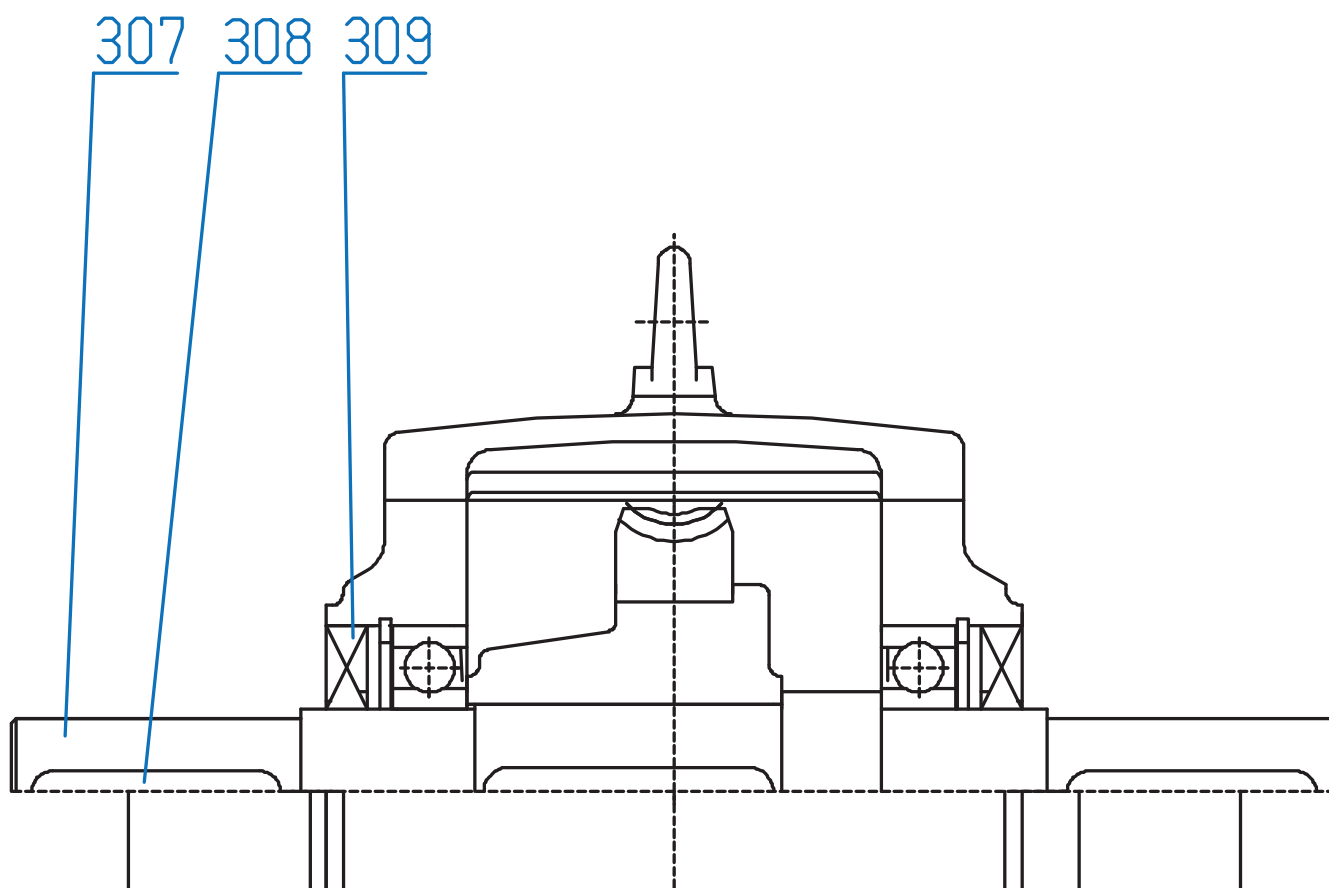
DRIVESYSTEMS

HELICAL-WORM PARTS LIST DRAWINGS

RETAIN FOR FUTURE USE



U15500 - 11 of 11



SK13050 - SK43125

307 Output Shaft
308 Key

309 Oil Seal
346 Screw

350 Flange
354 Shrink Disc Connector

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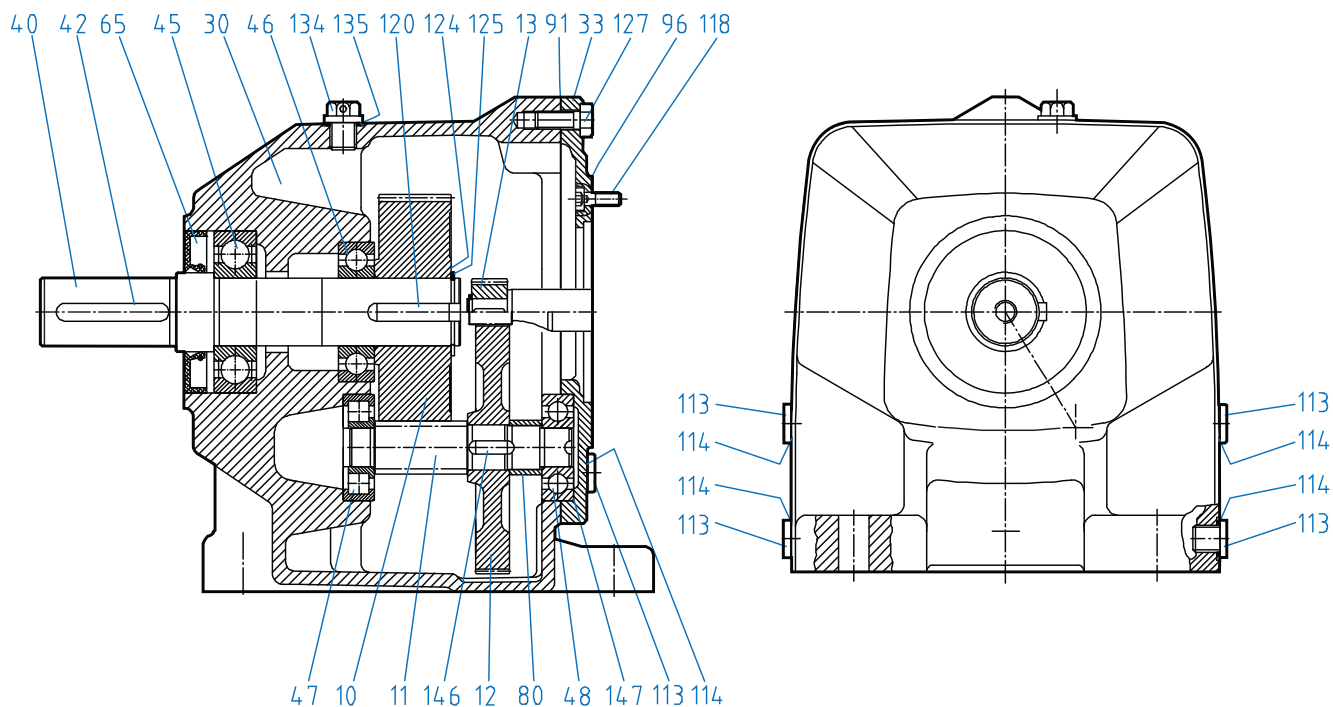
DRIVESYSTEMS

NORDBLOC® PARTS LIST DRAWINGS

RETAIN FOR FUTURE USE



U15600 - 1 of 4



SK 172 - SK 972 Foot Mounted

10	Driven gear	46	Output shaft bearing	118	Bolt
11	Pinion shaft	47	Pinion shaft bearing	120	Key
12	Driving gear	48	Pinion shaft bearing	124	Shim
13	Driving pinion	65	Shaft seal	125	Snap ring
30	Gearcase	80	Spacer	127	Bolt
33	Input cover	91	Gasket	134	Vent plug
40	Output shaft	96	Gasket	135	Gasket
42	Key	113	Oil plug	146	Key
45	Output shaft bearing	114	Gasket	147	Shim

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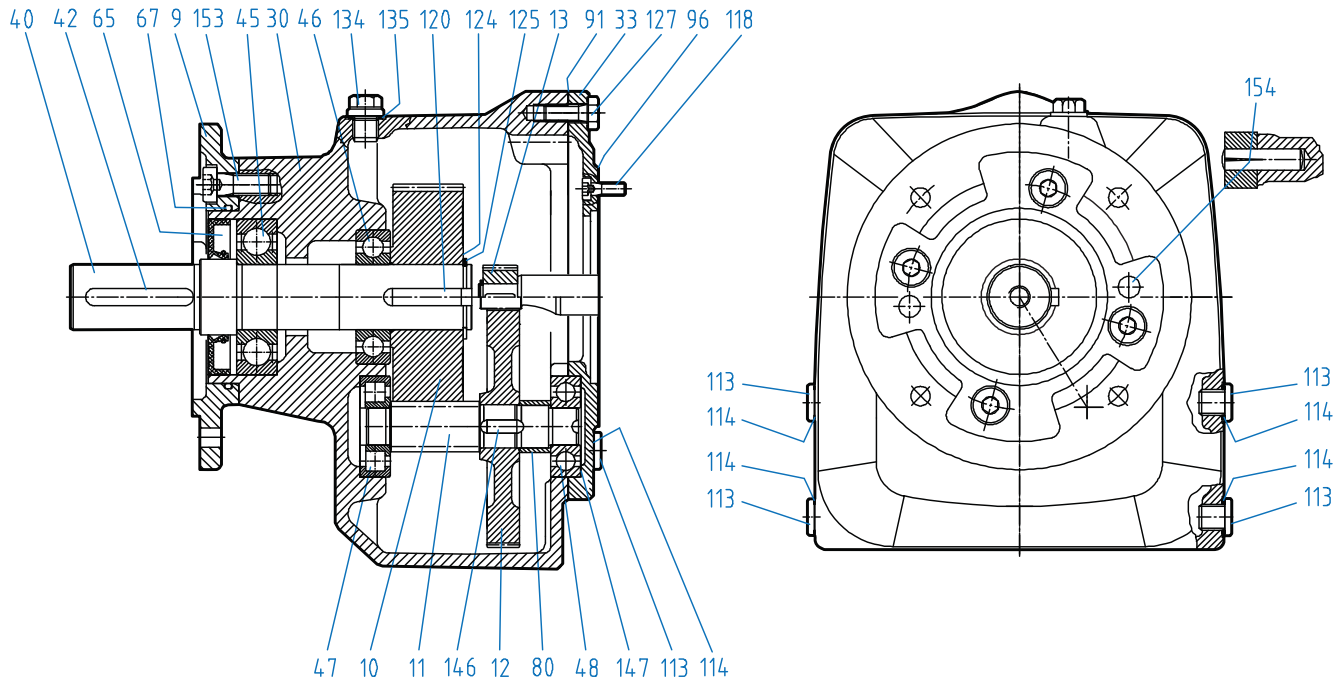
DRIVESYSTEMS

NORDBLOC® PARTS LIST DRAWINGS

RETAIN FOR FUTURE USE



U15600 - 2 of 4



SK 172 - SK 972 Flange Mounted

9	Flange	47	Pinion shaft bearing	124	Shim
10	Driven gear	48	Pinion shaft bearing	125	Snap ring
11	Pinion shaft	65	Shaft seal	127	Bolt
12	Driving gear	67	O-Ring	134	Vent plug
13	Driving pinion	80	Spacer	135	Gasket
30	Gearcase	91	Gasket	146	Key
33	Input cover	96	Gasket	147	Shim
40	Output shaft	113	Oil plug	153	Bolt
42	Key	114	Gasket	154	Grooved dowel pin
45	Output shaft bearing	118	Bolt		
46	Output shaft bearing	120	Key		

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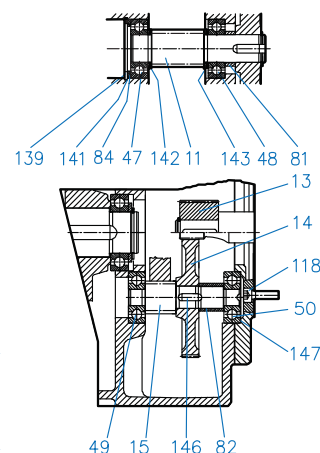
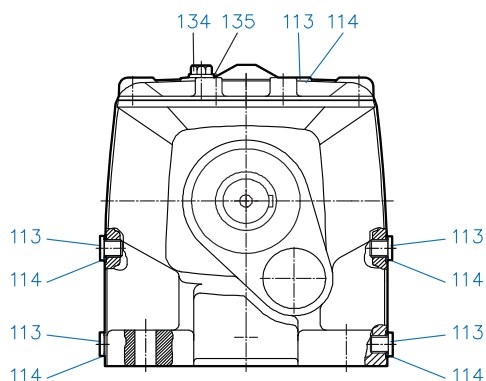
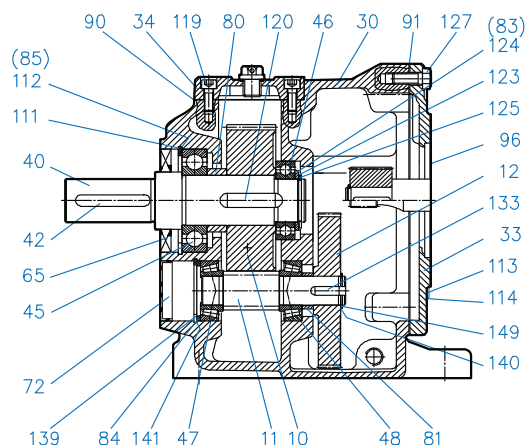
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NORDBLOC® PARTS LIST DRAWINGS

RETAIN FOR FUTURE USE



U15600 - 3 of 4



SK 273 - SK 973 Foot Mounted

10 Driven gear	65 Shaft seal	120 Key
11 Pinion shaft	72 Bore plug	123 Thrust washer
12 Driving gear	80 Spacer	124 Shim
13 Driving pinion	81 Spacer	125 Snap ring
14 Driving gear	82 Spacer	127 Bolt
15 Pinion shaft	83 Thrust washer	133 Key
30 Gearcase	84 Thrust washer	134 Vent plug
33 Input cover	85 Thrust washer	135 Gasket
34 Gear case cover	90 Gasket	139 Snap ring
40 Output shaft	91 Gasket	140 Shim
42 Key	96 Gasket	141 Shim
45 Output shaft bearing	111 Snap ring	142 Thrust washer
46 Output shaft bearing	112 Shim	143 Thrust washer
47 Pinion shaft bearing	113 Oil plug	146 Key
48 Pinion shaft bearing	114 Gasket	147 Shim
49 Pinion shaft bearing	118 Bolt	149 Snap ring
50 Pinion shaft bearing	119 Bolt	