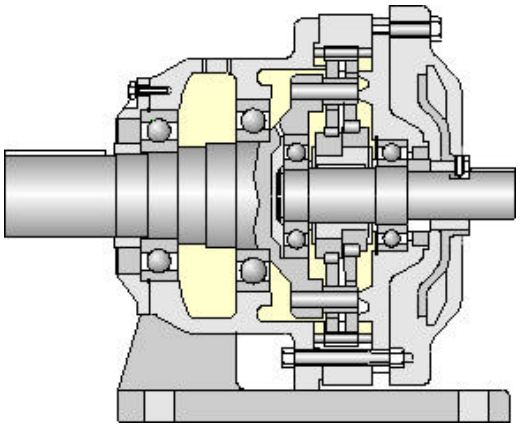
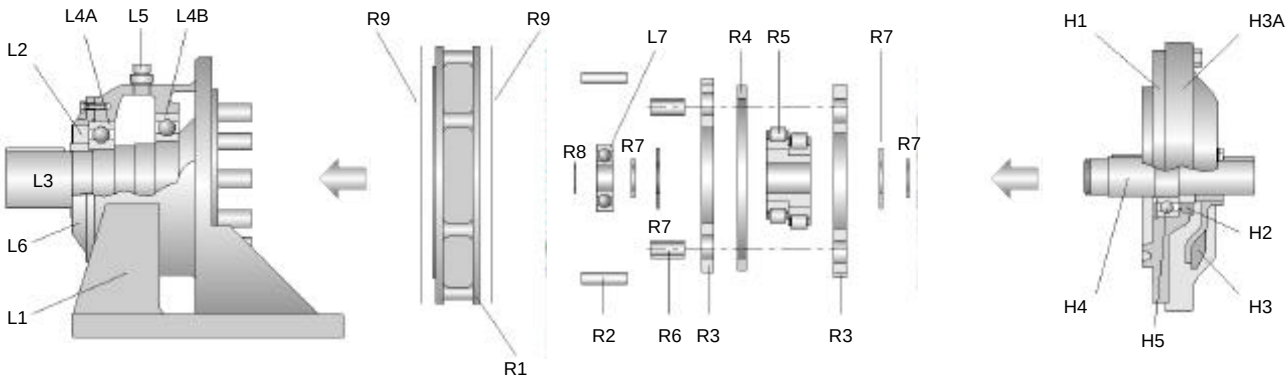
DARALI® Cycloidal Reducers - Parts List (Single Reduction)



Each DARALI® Cycloidal Speed Reducer is constructed with three major sub-assemblies: output sub-assembly, ring gear sub-assembly, and input sub-assembly.

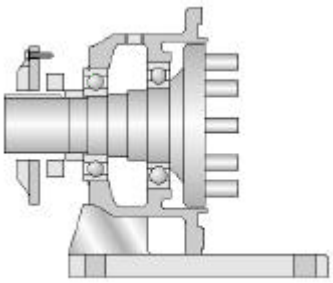
The input and output sub-assemblies are generic within each frame size. That is, disregard what the reduction ratio is (between 6:1 and 87:1), the same input and output assemblies are used to assemble speed reducers in the same frame size. The ring gear sub-assembly determines the reduction ratio of a DARALI® Cycloidal Reducer.

Listed below are the code names for each component inside the cycloidal speed reducer. This Parts List includes only components that may require repair or replacement during the rebuild. Components that are very unlikely to subject to replacement are not listed here.



OUTPUT SUB-ASSEMBLY
**Generic within each frame*

Major Components:
L1 - Output Casting
L2 - Oil Seal
L3 - Slow Speed Shaft with Pins
L4A - Slow Speed Shaft Bearing
L4B - Slow Speed Shaft Bearing
L5 - Oil Filler Cap (B13 and above)
L6 - Oil Seal Housing (B13 and above)
L7 - High Speed Shaft End Bearing

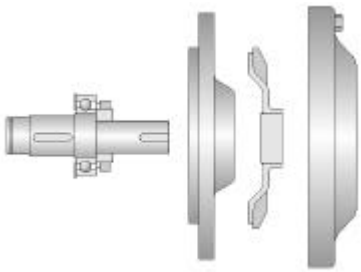


RING GEAR SUB-ASSEMBLY
**The Reduction Ratio Kit*

Major Components:
R1 - Ring Gear Casting
R2 - Ring Gear Pins/Rollers
R3 - Cycloidal Disc(s) (B07~B09: 1 Disc w/ Counter Weight. B10 and above: 2 discs)
R4 - Cycloidal Disc Spacer (B10 and above)
R5 - Eccentric Bearing
R6 - Slow Speed Shaft Rollers
R7 - Bearing Spacers
R8 - Snap Ring
R9 - Gasket Set

INPUT SUB-ASSEMBLY
**Generic within each frame*

Major components:
H1 - Input Cap
H2 - Oil Seal
H3 - Cooling Fan (B16 and above)
H3A - Fan Cover (B16 and above)
H4 - High Speed Shaft
H5 - High Speed Shaft Bearing

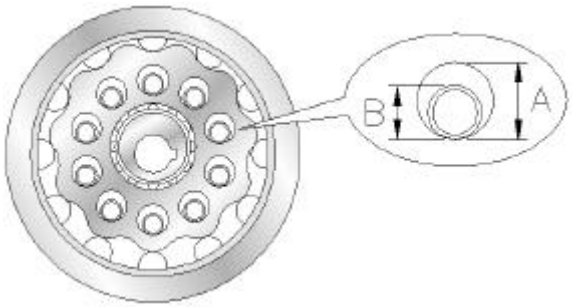


DARALI® Cycloidal Reducers - Parts List (Single Reduction)

Frame / Parts	B07	B08	B09	B10	B11	B12	B13	B14	B15	B16	B17	B18	B19
L1	B07H-L1	B08H-L1	B09H-L1	B10H-L1	B11H-L1	B12H-L1	B13H-L1	B14H-L1	B15H-L1	B16H-L1	B17H-L1	B18H-L1	B19H-L1
L2	35x47x8	35x47x8	40x72x10	40x72x10	65x90x12	65x90x12	65x90x12	65x90x12	65x90x12	85x110x13	95x130x14	110x145x14	120x155x15
L3	B07-L3	B08-L3	B09-L3	B10-L3	B11-L3	B12-L3	B13-L3	B14-L3	B15-L3	B16-L3	B17-L3	B18-L3	B19-L3
L4A	6005	6005	6306	6306	6308	6308	6211NR	22211NR	22211NR	6213NR	6216NR	6218NR	6221NR
L4B	6008	6008	6011	6011	6013	6013	6213	6213	6213	6215	6218	6220	6026
L5	--	--	--	--	--	--	L5	L5	L5	L5	L5	L5	L5
L6	--	--	--	--	--	--	B13-L6	B14-L6	B15-L6	B16-L6	B17-L6	B18-L6	B19-L6
L7	6200	6200	6302	6302	6304	6304	6305	6305	6305	6307	6406	6407	6408
R1	See Note	See Note	See Note	See Note	See Note	See Note	See Note	See Note	See Note	See Note	See Note	See Note	See Note
R2	See Note	See Note	See Note	See Note	See Note	See Note	See Note	See Note	See Note	See Note	See Note	See Note	See Note
R3	See Note	See Note	See Note	See Note	See Note	See Note	See Note	See Note	See Note	See Note	See Note	See Note	See Note
R4	--	--	--	B10-R4	B11-R4	B12-R4	B13-R4	B14-R4	B15-R4	B16-R4	B17-R4	B18-R4	B19-R4
R5	B07-EB-?	B08-EB-?	B09-EB-?	B10-EB-?	B11-EB-?	B12-EB-?	B13-EB-?	B14-EB-?	B15-EB-?	B16-EB-?	B17-EB-?	B18-EB-?	B19-EB-?
R6	B07-R6	B08-R6	B09-R6	B10-R6	B11-R6	B12-R6	B13-R6	B14-R6	B15-R6	B16-R6	B17-R6	B18-R6	B19-R6
R7	B07-R7	B08-R7	B09-R7	B10-R7	B11-R7	B12-R7	B13-R7	B14-R7	B15-R7	B16-R7	B17-R7	B18-R7	B19-R7
R8	--	--	--	--	S-20	S-20	S-25	S-25	S-25	S-35	S-30	S-35	S-40
R9	B07-R9	B08-R9	B09-R9	B10-R9	B11-R9	B12-R9	B13-R9	B14-R9	B15-R9	B16-R9	B17-R9	B18-R9	B19-R9
H1	B07-H1	B08-H1	B09-H1	B10-H1	B11-H1	B12-H1	B13-H1	B14-H1	B15-H1	B16-H1	B17-H1	B18-H1	B19-H1
H2	17x30x8	17x30x8	20x35x8	20x35x8	32x52x10	32x52x10	38x58x9	38x58x9	38x58x9	55x78x12	60x82x12	65x88x12	85x110x12
H3	--	--	--	--	--	--	--	--	--	B16-H3	B17-H3	B18-H3	B19-H3
H3A	--	--	--	--	--	--	--	--	--	B16-H3A	B17-H3A	B18-H3A	B19-H3A
H4	B07-H4	B08-H4	B09-H4	B10-H4	B11-H4	B12-H4	B13-H4	B14-H4	B15-H4	B16-H4	B17-H4	B18-H4	B19-H4
H5	6301	6301	6302	6302	6305	6305	6306	6306	6306	6308	6407	6409	6411

Note:

- Ring Gear Sub-Assembly is typically sold as one set instead of individual components.
- When purchasing Eccentric Bearing (R5), please specify eccentricity. Eccentricity can be measured using the following method.



Eccentricity = (A-B) / 2

Where,

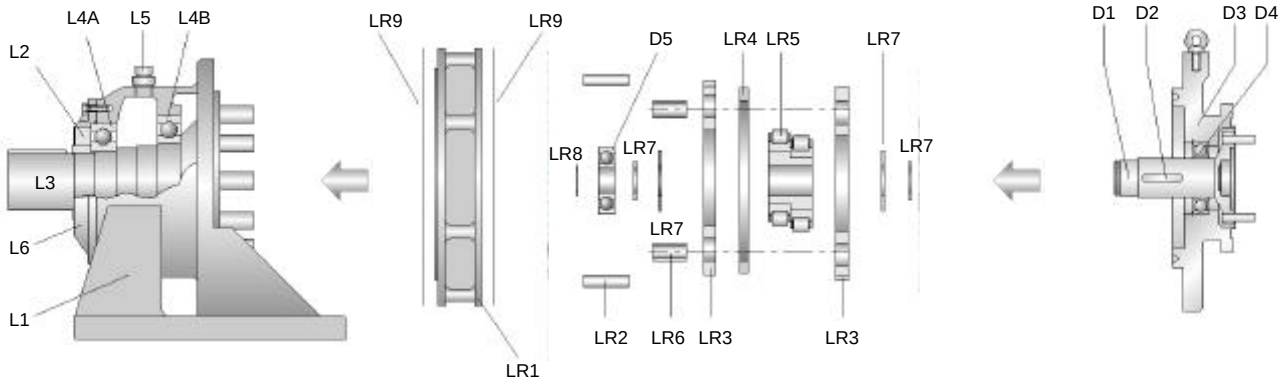
A = Diameter of Planetary Bore

B = Outside Diameter of Output Shaft Roller

* Both A & B have to be measured in mm. We recommend not to measure A & B in inches and then convert. Error may occur when converting from inch to mm.

- Therefore, when ordering Eccentric Bearing (R5), the "?" in the part number denotes eccentricity, and eccentricity can be determined using the above measurement.

DARALI® Cycloidal Reducers - Parts List (Double Reduction)



OUTPUT SUB-ASSEMBLY

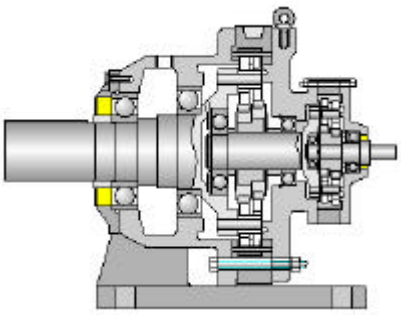
Major Components:
L1 - Output Casting
L2 - Oil Seal
L3 - Slow Speed Shaft with Pins
L4A - Slow Speed Shaft Bearing
L4B - Slow Speed Shaft Bearing
L5 - Oil Filler Cap (B13 and above)
L6 - Oil Seal Housing (B13 and above)
D5 - Double Stage Shaft End Bearing

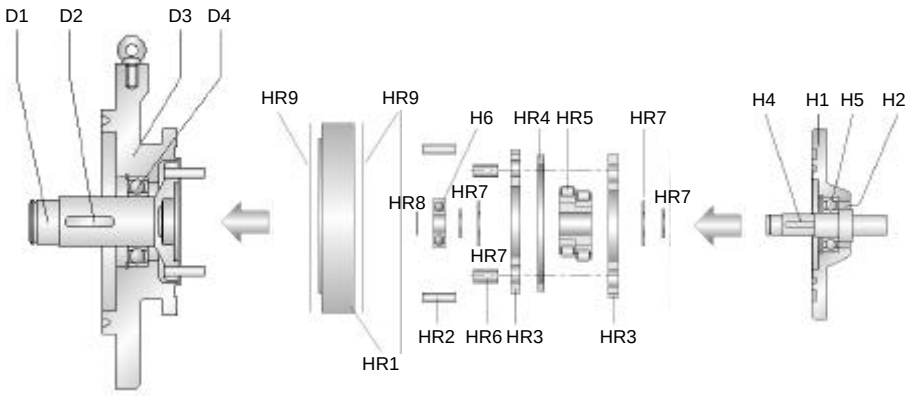
RING GEAR SUB-ASSEMBLY
(Second Stage Ring Gear)

Major Components:
LR1 - Ring Gear Casting
LR2 - Ring Gear Pins/Rollers
LR3 - Cycloidal Disc(s) (B07~B09: 1 Disc w/ Counter Weight. B10 and above: 2 discs)
LR4 - Cycloidal Disc Spacer (B10 and above)
LR5 - Eccentric Bearing
LR6 - Slow Speed Shaft Rollers
LR7 - Bearing Spacers
LR8 - Snap Ring
LR9 - Gasket Set

DOUBLE STAGE KIT
(Connects First Stage and Second Stage Ring Gears)

Major components:
D1 - Double Stage Intermediate Shaft
D2 - Eccentric Bearing Key
D3 - Double Stage Casting
D4 - Double Stage Shaft Bearing
H6 - High Speed Shaft End Bearing (please refer to the diagram below)





EXAMPLE:

B1711-1849:1-XHH

- First Stage Ring Gear
- Second Stage Ring Gear

RING GEAR SUB-ASSEMBLY
(First Stage Ring Gear)

Major Components:
HR1 - Ring Gear Casting
HR2 - Ring Gear Pins/Rollers
HR3 - Cycloidal Disc(s) (B07~B09: 1 Disc w/ Counter Weight. B10 and above: 2 discs)
HR4 - Cycloidal Disc Spacer (B10 and above)
HR5 - Eccentric Bearing
HR6 - Slow Speed Shaft Rollers
HR7 - Bearing Spacers
HR8 - Snap Ring
HR9 - Gasket Set

INPUT SUB-ASSEMBLY

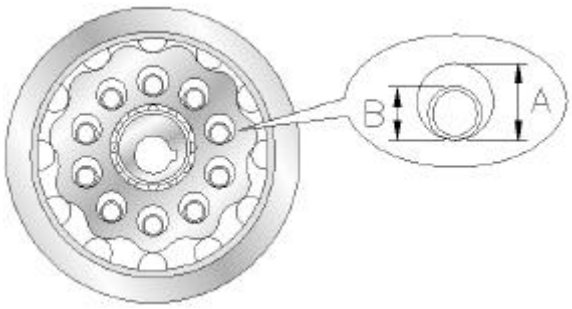
Major components:
H1 - Input Cap
H2 - Oil Seal
H4 - High Speed Shaft
H5 - High Speed Shaft Bearing
H6 - High Speed Shaft End Bearing

DARALI® Cycloidal Reducers - Parts List (Double Reduction)

Frame / Parts	B0908	B1008	B1109	B1310	B1409	B1611	B1711	B1813	B1911	B1913
L1	B09H-L1	B10H-L1	B11H-L1	B13H-L1	B14H-L1	B16H-L1	B17H-L1	B18H-L1	B19H-L1	B19H-L1
L2	40x72x10	40x72x10	65x90x12	65x90x12	65x90x12	85x110x13	95x130x14	110x145x14	120x155x15	120x155x15
L3	B09-L3	B10-L3	B11-L3	B13-L3	B14-L3	B16-L3	B17-L3	B18-L3	B19-L3	B19-L3
L4A	6306	6306	6308	6211NR	22211NR	6213NR	6216NR	6218NR	6221NR	6221NR
L4B	6011	6011	6013	6213	6213	6215	6218	6220	6026	6026
L5	--	--	--	L5	L5	L5	L5	L5	L5	L5
L6	--	--	--	B13-L6	B14-L6	B16-L6	B17-L6	B18-L6	B19-L6	B19-L6
L7	6302	6302	6304	6305	6305	6307	6406	6407	6408	6408
LR1	See Note	See Note	See Note	See Note	See Note	See Note	See Note	See Note	See Note	See Note
LR2	See Note	See Note	See Note	See Note	See Note	See Note	See Note	See Note	See Note	See Note
LR3	See Note	See Note	See Note	See Note	See Note	See Note	See Note	See Note	See Note	See Note
LR4	--	B10-R4	B11-R4	B13-R4	B14-R4	B16-R4	B17-R4	B18-R4	B19-R4	B19-R4
LR5	B09-EB-?	B10-EB-?	B11-EB-?	B13-EB-?	B14-EB-?	B16-EB-?	B17-EB-?	B18-EB-?	B19-EB-?	B19-EB-?
LR6	B09-R6	B10-R6	B11-R6	B13-R6	B14-R6	B16-R6	B17-R6	B18-R6	B19-R6	B19-R6
LR7	B09-R7	B10-R7	B11-R7	B13-R7	B14-R7	B16-R7	B17-R7	B18-R7	B19-R7	B19-R7
LR8	--	--	S-20	S-25	S-25	S-35	S-30	S-35	S-40	S-40
LR9	B09-R9	B10-R9	B11-R9	B13-R9	B14-R9	B16-R9	B17-R9	B18-R9	B19-R9	B19-R9
D1	B0908-D1	B1008-D1	B1109-D1	B1310-D1	B1409-D1	B1611-D1	B1711-D1	B1813-D1	B1911-D1	B1913-D1
D2	B0908-D2	B1008-D2	B1109-D2	B1310-D2	B1409-D2	B1611-D2	B1711-D2	B1813-D2	B1911-D2	B1913-D2
D3	B0908-D3	B1008-D3	B1109-D3	B1310-D3	B1409-D3	B1611-D3	B1711-D3	B1813-D3	B1911-D3	B1913-D3
D4	6302	6302	6205	6206	6206	6208	6208	6213	6210	6213
HR1	See Note	See Note	See Note	See Note	See Note	See Note	See Note	See Note	See Note	See Note
HR2	See Note	See Note	See Note	See Note	See Note	See Note	See Note	See Note	See Note	See Note
HR3	See Note	See Note	See Note	See Note	See Note	See Note	See Note	See Note	See Note	See Note
HR4	--	--	--	B10-R4	--	B11-R4	B11-R4	B13-R4	B11-R4	B13-R4
HR5	B08-EB-?	B08-EB-?	B09-EB-?	B10-EB-?	B09-EB-?	B11-EB-?	B11-EB-?	B13-EB-?	B11-EB-?	B13-EB-?
HR6	B08-R6	B08-R6	B09-R6	B10-R6	B09-R6	B11-R6	B11-R6	B13-R6	B11-R6	B13-R6
HR7	B08-R7	B08-R7	B09-R7	B10-R7	B09-R7	B11-R7	B11-R7	B13-R7	B11-R7	B13-R7
HR8	--	--	--	--	--	S-20	S-20	S-25	S-20	S-25
HR9	B08-R9	B08-R9	B09-R9	B10-R9	B09-R9	B11-R9	B11-R9	B13-R9	B11-R9	B13-R9
H1	B08-H1	B08-H1	B09-H1	B10-H1	B09-H1	B11-H1	B11-H1	B13-H1	B11-H1	B13-H1
H2	17x30x8	17x30x8	20x35x8	20x35x8	20x35x8	32x52x10	32x52x10	38x58x9	32x52x10	38x58x9
H4	B08-H4	B08-H4	B09-H4	B10-H4	B09-H4	B11-H4	B11-H4	B13-H4	B11-H4	B13-H4
H5	6301	6301	6302	6302	6302	6305	6305	6306	6305	6306
H6	6200	6200	6302	6302	6302	6204	6204	6305	6304	6305

Note:

- Ring Gear Sub-Assembly is typically sold as one set instead of individual components.
- When purchasing Eccentric Bearing (LR5 or HR5), please specify eccentricity. Eccentricity can be measured using the following method.



Eccentricity = (A-B) / 2

Where,

A = Diameter of Planetary Bore

B = Outside Diameter of Output Shaft Roller

* Both A & B have to be measured in mm. We recommend not to measure A & B in inches and then convert. Error may occur when converting from inch to mm.

- Therefore, when ordering Eccentric Bearing (LR5 or HR5), the "?" in the part number denotes eccentricity, and eccentricity can be determined using the above measurement.