



FINERPOWER
TRANSMISSIONS

Universal Joints, Gearboxes,
Assorted PT & Interchange Charts





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Universal Joints



UNIVERSAL JOINTS

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G5-X Series

Part No.	Fig.	Lubrication	Dimensions						Remark	Description	Alternate Part No.
			L	LI	D	P	R	Hole Pitch			
G5-134X*	A	1	92.00	81.70	26.99	-	-	-	EXTERNAL CIRCLIP	-	-
G5-153X	A	1	81.80	-	26.99	-	-	-	EXTERNAL CIRCLIP	1310 SERIES	K5-13XR
G5-153XB0	A	2	81.80	-	26.99	-	-	-	EXTERNAL CIRCLIP	1310 SERIES LUBE IN CAP	5-433-1X
G5-155X	A	1	126.10	-	34.92	-	-	-	EXTERNAL CIRCLIP	1550 SERIES	5-155X
G5-170X	B	3	-	38.00	23.82	42.88	-	-	INTERNAL CIRCLIP	1000 SERIES	5-170X
G5-178X	A	1	-	92.05	30.18	-	-	-	EXTERNAL CIRCLIP	1350 SERIES	5-178X
G5-221X	H	1	126.10	-	34.92	44.00	140.30	44.00	WING/EXTERNAL CIRCLIP	-	5-221X
G5-279X	D	1	134.80	-	47.62	-	-	-	PLATE TYPE	1610 SERIES	5-279X
G5-280X	D	1	154.65	-	49.20	-	-	-	PLATE TYPE	1710 SERIES	5-280X
G5-281X	D	1	191.76	-	49.20	-	-	-	PLATE TYPE	1810 SERIES	5-281X
G5-297X	B	0	-	55.56	30.17	-	-	-	INTERNAL CIRCLIP	1350 SERIES	5-297X
G5-330X	H	1	142.00	-	41.23	49.20 / 117.48	148.38	-	EXTERNAL CIRCLIP/WING	1650 SERIES TO 7C MECH - 2XBLOCK (Str)	5-330X
G5-347X	H	1	160.30	-	34.92	42.88	115.06	42.88	WING/EXTERNAL CIRCLIP	-	5-347X
G5-353X	B	1	81.75	60.45/53.89	26.99/27.38	-	-	-	INTERNAL/EXTERNAL CIRCLIP	1310 SERIES TO 21R SERIES	K5-A530
G5-1203X	B	1	92.00	70.40	26.99	-	-	-	INTERNAL/EXTERNAL CIRCLIP	1330 SERIES	RUJ-3002
G5-1204X*	B	1	92.20	70.40	26.99/28.57	-	-	-	INTERNAL/EXTERNAL CIRCLIP	-	-
G5-2140X	B	1	81.10	59.40	25.39/26.99	-	-	59.53	INTERNAL/EXTERNAL CIRCLIP	2R SERIES TO 1310 SERIES	RUJ-2032
G5-2173X	B	1	-	59.40	25.39	-	-	-	INTERNAL CIRCLIP	2R TO 25R SERIES	RUJ-2034
G5-6106X	G	1	-	-	-	42.88/114.29	140.45	-	WING TYPE	6C MECH-4XBLOCK (Straight)	114-6128
G5-7105X	G	1	-	-	-	49.20/117.48	148.38	-	WING TYPE	7CMECH4xBLOCK (Straight)	114-7126

* Not a stocked range although available on request.

- L : (ASSY SIZE)
- D : (CASE SIZE)
- L' : (ASSY SIZE-SD)
- D' : (CASE SIZE-SD)
- LI : (ASSY SIZE-INSIDE SNAP)
- R : (ASSY SIZE-WING TYPE)
- P : (HOLE PITCH)

PREMIUM UNIVERSAL JOINT

Special Chrome-Molybdenum Alloy Steel for superior corrosion resistance

Exact fit snap ring included

High strength needle bearings for greater load capacity

Multi-stage testing prior to assembly for maximum quality control



Lubricator Types

- 0 : Lifetime lubrication
- 1 : Regular lube fitting on side of cross
- 2 : Regular lube fitting on end of bearing cup
- 3 : Angle lube fitting on center of cross
- 4 : Regular lube fitting on center of cross
- 5 : Dual lube fitting, regular lube on side of cross & angle lube on center of cross



GU Series

Part No.	Fig.	Lubrication	Dimensions						Remark	Description	Alternate Part No.
			L	LI	D	P	R	Hole Pitch			
GU-297*	J	0	78.40	-	24.06	-	-	-	STAKED TYPE	EUROPEAN	-
GU-350A	A	3	51.96	-	19.04	-	-	-	EXTERNAL CIRCLIP	500 SERIES CENTRE LUBE	K5-A546
GU-350L	A	0	51.95	-	19.04	-	-	-	EXTERNAL CIRCLIP	500 SERIES NON LUBE	K5-A539
GU-3840	A	1	149.00	-	44.00	-	-	-	EXTERNAL CIRCLIP	SCANIA T60 (No wings)	K5-A596
GU-410	A	0	63.30	-	24.00	-	-	-	EXTERNAL CIRCLIP	ALFA ROMEO	K5-A532
GU-500	A	1	61.30	-	23.82	-	-	-	EXTERNAL CIRCLIP	1140/T20 PTO	K5-A64
GU-500L*	A	0	61.30	-	23.82	-	-	-	EXTERNAL CIRCLIP	EUROPEAN	-
GU-1000*	A	1	81.75	-	26.99	-	-	-	EXTERNAL CIRCLIP	EUROPEAN	-
GU-1100	A	1	74.60	-	26.99	-	-	-	EXTERNAL CIRCLIP	1300/T40 PTO	K5-LGB36R
GU-1100SP	A	1	74.612	-	27.00	-	-	-	EXTERNAL CIRCLIP	1300 SERIES HEAVY DUTY	K5-A757
GU-1660*	A	2	58.80	-	22.03	-	-	-	EXTERNAL CIRCLIP	EUROPEAN	-
GU-2000	A	1	92.05	-	30.18	-	-	-	EXTERNAL CIRCLIP	1410 SERIES	K5-GB10R
GU-2050	A	1	106.30	-	30.18	-	-	-	EXTERNAL CIRCLIP	1410 SERIES PTO	K5-A536
GU-2200	A	1	92.08	-	30.18	-	-	-	EXTERNAL CIRCLIP	1350/T60 PTO	K5-A18R
GU-2300	A	1	-	106.30	34.92	-	-	-	EXTERNAL CIRCLIP	1480 SERIES	5-188X
GU-3800*	E	1	126.00	-	44.04	-	-	-	PLATE TYPE	EUROPEAN	-
GU-3810*	E	3	152.60	-	50.00	-	-	-	PLATE TYPE	EUROPEAN	-
GU-5960	H	2	-	43.60	25.40	33.34	65.00	65	WING/INTERNAL CIRCLIP	EARLY HOLDEN/CHAMBERLAIN/TRACTOR	RJ-1764
GU-7100*	H	2	-	43.60	25.40	44.20	65.00	-	WING/INTERNAL CIRCLIP	EUROPEAN	-
GU-7280	B	1	-	52.40	28.00	-	-	-	INTERNAL CIRCLIP	MERCEDES BENZ	RJ-2050
GU-7280/4	J	0	74.40	-	24.06	-	-	-	STAKED TYPE	EUROPEAN	K5-A657
GU-7410*	A	3	69.80	-	26.00	-	-	-	EXTERNAL CIRCLIP	EUROPEAN	-
GU-7420SPR	A	3	81.80	-	30.00	-	-	-	EXTERNAL CIRCLIP	GWB 287-10	K5-A611
GU-7430	A	3	96.80	-	35.00	-	-	-	EXTERNAL CIRCLIP	GWB 587-10	K5-A612
GU-7470	B	3	72.00	-	42.00	-	-	-	INTERNAL CIRCLIP	MECEDES BENZ	RJ-5001

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- LI : (ASSY SIZE-INSIDE SNAP)
- R : (ASSY SIZE-WING TYPE)
- P : (HOLE PITCH)

Lubricator Types

- 0 : Lifetime lubrication
- 1 : Regular lube fitting on side of cross
- 2 : Regular lube fitting on end of bearing cup
- 3 : Angle lube fitting on center of cross
- 4 : Regular lube fitting on center of cross
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GUA Series

Part No.	Fig.	Lubrication	Dimensions						Remark	Description	Alternate Part No.
			L	LI	D	P	R	Hole Pitch			
GUA-1	A	3	47.00	-	18.00	-	-	-	EXTERNAL CIRCLIP	WALTERSCHEID W2000	K5-A587
GUA-2*	A	3	51.95	-	19.04	-	-	-	EXTERNAL CIRCLIP	AGRICULTURAL	-
GUA-3	A	3	54.00	-	22.00	-	-	-	EXTERNAL CIRCLIP	T10 PTO	K5-A588
GUA-4	A	3	54.80	-	22.00	-	-	-	EXTERNAL CIRCLIP	WALTERSCHEID	K5-A589
GUA-11	A	3	80.00	-	30.20	-	-	-	EXTERNAL CIRCLIP	PTO	K5-A591
GUA-12*	A	3	92.05	-	30.18	-	-	-	EXTERNAL CIRCLIP	AGRICULTURAL	-
GUA-13*	A	3	106.30	-	30.18	-	-	-	EXTERNAL CIRCLIP	AGRICULTURAL	-
GUA-14	A	3	75.90	-	32.00	-	-	-	EXTERNAL CIRCLIP	WALTERSCHEID	K5-A592
GUA-20	A	3	88.80	-	36.00	-	-	-	EXTERNAL CIRCLIP	WALTERSCHEID	K5-A593
GUA-21	A	1	118.00	-	41.00	-	-	-	EXTERNAL CIRCLIP	SERIES 10 PTO	K5-A594

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GUH Series

Part No.	Fig.	Lubrication	Dimensions						Remark	Description	Alternate Part No.
			L	LI	D	P	R	Hole Pitch			
GUH-63	A	3	99.00	-	35.00	-	-	-	EXTERNAL CIRCLIP	HINO	K5-A566
GUH-68	C	3	144.00	-	47.00	-	-	-	PLATE TYPE	HINO	K5-A581
GUH-71*	C	3	144.00	-	47.00	-	-	-	PLATE TYPE	HINO	-
GUH-73	C	3	165.00	-	50.00	-	-	-	PLATE TYPE	HINO	K5-A659
GUH-74	A	1	115.60	-	36.00	-	-	-	EXTERNAL CIRCLIP	HINO	K5-A660
GUH-75	C	3	175.00	-	58.00	-	-	-	PLATE TYPE	HINO	K5-A785
GUH-76	A	3	116.10	-	40.00	-	-	-	EXTERNAL CIRCLIP	HINO	K5-A748
GUH-77	A	3	126.00	-	44.00	-	-	-	EXTERNAL CIRCLIP	HINO	K5-A855

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- P : (HOLE PITCH)

Lubricator Types

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GUIS Series

Part No.	Fig.	Lubrication	Dimensions						Remark	Description	Alternate Part No.
			L	LI	D	P	R	Hole Pitch			
GUIS-52	B	1	-	53.00	29.00	-	-	-	INTERNAL CIRCLIP	ISUZU / HOLDEN	RUJ-2036
GUIS-55*	C	3	125.00	-	42.00	-	-	-	PLATE TYPE	ISUZU	-
GUIS-56	A	0	61.30	-	23.82	-	-	-	EXTERNAL CIRCLIP	1140 AUTOMOTIVE	K5-LGB80R
GUIS-57	C	3	145.00	-	49.975	-	-	-	PLATE TYPE	ISUZU	K5-A582
GUIS-60	G	1	-	-	-	49.22/117.48	148.38	-	WING TYPE	7CMECH4xBLOCK (Straight)	114-7205
GUIS-62*	A	3	103.92	-	35.00	-	-	-	EXTERNAL CIRCLIP	ISUZU	-
GUIS-64	A	3	115.00	-	40.00	-	-	-	EXTERNAL CIRCLIP	ISUZU	K5-A639
GUIS-65	C	3	136.00	-	45.98	-	-	-	PLATE TYPE	ISUZU	K5-A577
GUIS-66*	A	3	93.00	-	33.00	-	-	-	EXTERNAL CIRCLIP	ISUZU	-
GUIS-67*	G	3	-	-	-	56.00	173.92	-	WING TYPE	ISUZU	-
GUIS-71	B	2	53.00	-	29.00	-	-	-	INTERNAL CIRCLIP	ISUZU/HOLDEN	RUJ-2033
GUIS-72	A	3	115.00	-	42.00	-	-	-	EXTERNAL CIRCLIP	ISUZU	K5-A753
GUIS-73	A	3	103.00	-	33.00	-	-	-	EXTERNAL CIRCLIP	ISUZU	114-8209
GUIS-74	B	2	-	72.00	29.00	-	-	-	INTERNAL CIRCLIP	HOLDEN JACKAROO	RUJ-3011

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* Also stocked: GUK-14

GUM Series

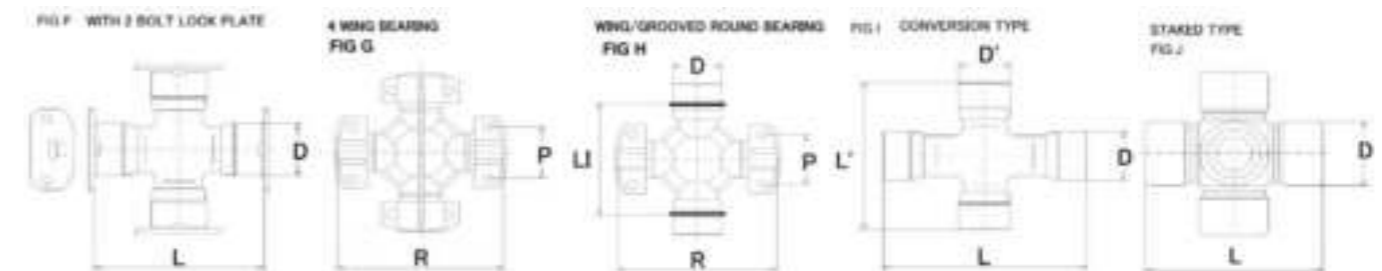
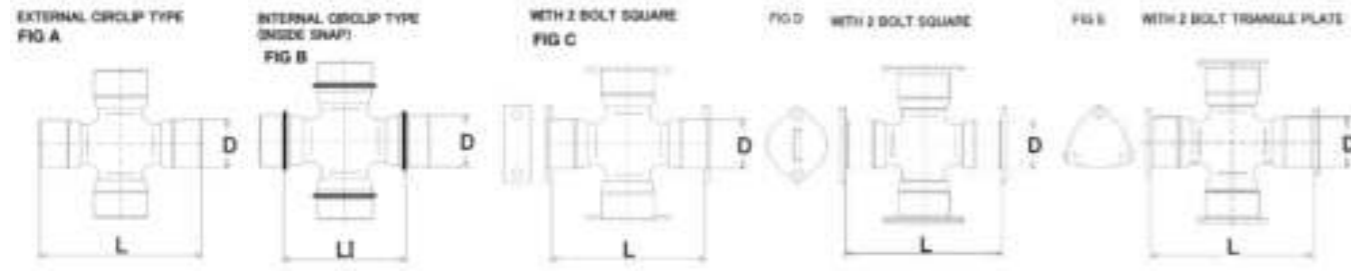
Part No.	Fig.	Lubrication	Dimensions						Remark	Description	Alternate Part No.
			L	LI	D	P	R	Hole Pitch			
GUM-71	C	3	129.00	-	44.00	-	-	-	PLATE TYPE	MITSUBISHI	K5-A576
GUM-75	A	3	102.00	-	31.75	-	-	-	EXTERNAL CIRCLIP	MITSUBISHI CANTER	K5-A563
GUM-80*	C	3	142.00	-	46.00	-	-	-	PLATE TYPE	MITSUBISHI	-
GUM-81	A	2	63.80	-	25.00	-	-	-	EXTERNAL CIRCLIP	MAZDA/MITSUBISHI	K5-A556
GUM-81L	A	0	63.80	-	25.00	-	-	-	EXTERNAL CIRCLIP	MITSUBISHI	RUJ-1783
GUM-88	A	0	76.80	-	25.00	-	-	-	EXTERNAL CIRCLIP	MITSUBISHI TRITON	RUJ-2045
GUM-93	B	3	-	58.1	30	-	-	-	INTERNAL CIRCLIP	MITSUBISHI	RUJ-3006
GUM-94*	A	3	112.00	-	40.00	-	-	-	EXTERNAL CIRCLIP	MITSUBISHI	-
GUM-95	B	0	-	40.00	22.009	-	-	-	INTERNAL CIRCLIP	MITSUBISHI	RUJ-1501
GUM-97	A	3	131.00	-	44.00	-	-	-	EXTERNAL CIRCLIP	MITSUBISHI	K5-A784
GUM-98*	D	1	154.65	-	49.20	-	-	-	PLATE TYPE	MITSUBISHI	-
GUM-99	B	3	-	74.10	30.00	-	-	-	INTERNAL CIRCLIP	MITSUBISHI PAJERO	RUJ-4010
GUM-100	A	0	76.70	-	29.00	-	-	-	EXTERNAL CIRCLIP	GREAT WALL FOTON TUNLAND	K5-A842

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- R : (ASSY SIZE-WING TYPE)
- P : (HOLE PITCH)

Lubricator Types

- 0 : Lifetime lubrication
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GUMZ Series

Part No.	Fig.	Lubrication	Dimensions						Remark	Description	Alternate Part No.
			L	LI	D	P	R	Hole Pitch			
GUMZ-2	A	2	54.80	-	20.02	-	-	-	EXTERNAL CIRCLIP	MAZDA	K5-A510
GUMZ-3	B	3	-	57.00	32.01	-	-	-	INTERNAL CIRCLIP	MAZDA	RUJ-3003
GUMZ-6	B	2	-	59.00	28.00	-	-	-	INTERNAL CIRCLIP	MAZDA	RUJ-2023
GUMZ-7	B	2	-	43.60	25.00	-	-	-	INTERNAL CIRCLIP	MAZDA	RUJ-1784
GUMZ-8	B	3	-	71.00	37.00	-	-	-	INTERNAL CIRCLIP	MAZDA	RUJ-4009
GUMZ-9	B	2	-	50.40	26.50	-	-	-	INTERNAL CIRCLIP	MAZDA E.2200	RUJ-2049
GUMZ-10	B	2	-	37.90	22.50	-	-	-	INTERNAL CIRCLIP	MAZDA	RUJ-1500
GUMZ-12	J	0	71.40	-	24.06	-	-	-	STAKED TYPE	MAZDA	K5-A777

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GUN Series

Part No.	Fig.	Lubrication	Dimensions						Remark	Description	Alternate Part No.
			L	LI	D	P	R	Hole Pitch			
GUN-26*	A	1	61.30	-	23.82	-	-	-	EXTERNAL CIRCLIP	NISSAN	-
GUN-27L	B	0	44.00	-	25.00	-	-	-	INTERNAL CIRCLIP	NISSAN	RUJ-1781
GUN-27	B	2	-	44.00	25.00	-	-	-	INTERNAL CIRCLIP	NISSAN	RUJ-1781
GUN-28	B	2	-	38.00	20.01	-	-	-	INTERNAL CIRCLIP	NISSAN	RUJ-1780
GUN-29	B	1	-	56.10	28.00	-	-	-	INTERNAL CIRCLIP	NISSAN	RUJ-2028
GUN-32*	A	4	119.00	-	35.50	-	-	-	EXTERNAL CIRCLIP	NISSAN	-
GUN-35	B	3	-	68.00	32.01	-	-	-	INTERNAL CIRCLIP	NISSAN PATROL 1988	RUJ-3007
GUN-41*	C	3	135.90	-	43.00	-	-	-	PLATE TYPE	NISSAN	-
GUN-44	A	3	56.50	-	20.50	-	-	-	EXTERNAL CIRCLIP	JAP, STEERING & PTO	K5-A551
GUN-45	J	0	52.80	-	20.06	-	-	-	STAKED TYPE	NISSAN	K5-A648
GUN-46	B	0	-	49.10	27.00	-	-	-	INTERNAL CIRCLIP	NISSAN NAVARA	RUJ-1700
GUN-50*	A	0	74.612	-	27.00	-	-	-	EXTERNAL CIRCLIP	1300 SERIES HEAVY DUTY	-
GUN-54	A	0	92.10	-	26.99	-	-	-	EXTERNAL CIRCLIP	1330 SERIES SOLID	5-618XD

* Not a stocked range although available on request.

GUT Series

Part No.	Fig.	Lubrication	Dimensions						Remark	Description	Alternate Part No.
			L	LI	D	P	R	Hole Pitch			
GUT-12	B	1	-	56.00	26.00	-	-	-	INTERNAL CIRCLIP	TOYOTA	RUJ-2016
GUT-13	B	2	-	46.80	26.00	-	-	-	INTERNAL CIRCLIP	TOYOTA	RUJ-1776
GUT-17*	B	0	-	52.00	29.00	-	-	-	INTERNAL CIRCLIP	TOYOTA	-
GUT-19	A	2	57.00	-	20.00	-	-	-	EXTERNAL CIRCLIP	TOYOTA	K5-A517
GUT-20	B	1	-	64.00	32.00	-	-	-	INTERNAL CIRCLIP	TOYOTA LANDCRUISER	RUJ-2041
GUT-21	B	3	-	52.00	29.00	-	-	-	INTERNAL CIRCLIP	TOYOTA HILUX 4WD	RUJ-2109
GUT-21B0	B	2	-	52.00	29.00	-	-	-	INTERNAL CIRCLIP	TOYOTA HILUX 4WD	RUJ-2100
GUT-23	B	3	-	52.00	29.00	-	-	-	INTERNAL CIRCLIP	TOYOTA 4WD HEAVY DUTY	RUJ-2109HD
GUT-24	J	0	57.50	22.06	-	-	-	-	STAKED TYPE	TOYOTA	K5-A654
GUT-27	B	2,3	-	53.80	28.57	-	-	-	INTERNAL CIRCLIP	25R JAP CARDAN	114-2501

* Not a stocked range although available on request.

- L : (ASSY SIZE)
- D : (CASE SIZE)
- L' : (ASSY SIZE-SD)
- D' : (CASE SIZE-SD)
- LI : (ASSY SIZE-INSIDE SNAP)
- R : (ASSY SIZE-WING TYPE)
- P : (HOLE PITCH)

Lubricator Types

- 0 : Lifetime lubrication
- 1 : Regular lube fitting on side of cross
- 2 : Regular lube fitting on end of bearing cup
- 3 : Angle lube fitting on center of cross
- 4 : Regular lube fitting on center of cross
- 5 : Dual lube fitting, regular lube on side of cross & angle lube on center of cross



MC Series

Part No.	Fig.	Lubrication	Dimensions						Remark	Description	Alternate Part No.
			L	LI	D	P	R	Hole Pitch			
MC-2011	G	2	-	-	-	33.32	79.22	-	WING TYPE	2C MECH-4XWING (Thread)	114-2110
MC-2021	G	2	-	-	-	33.32/59.54	79.22	-	WING TYPE	2C MECH-4XWING (Straight)	RUI-2046
MC-2071	H	2	-	59.54	25.40	33.32/59.54	79.22	-	WING/INTERNAL CIRCLIP	2R SERIES TO 2C MECH	114-2111
MC-3020	G	1	-	-	-	36.50/69.85	90.35	-	WING TYPE	3C MECH-4XWING (C/Sunk)	114-3103
MC-3040	G	1	-	-	-	36.50	90.35	-	WING TYPE	3C(2LWT+2LWD)	114-3101
MC-3091	H	2	-	65.11	28.57	36.50	90.35	-	WING/INTERNAL CIRCLIP	3C(2HWD(1BO)-2RDG)	114-3120
MC-4010	G	1	-	-	-	36.50/87.32	107.82	-	WING TYPE	4C MECH-4XWING	114-4100
MC-4070	H	1	-	82.58	28.57	36.50	107.82	36.50	INTERNAL CIRCLIP/WING	4R SERIES TO 4C MECH	RUI-4005
MC-4100	B	1	-	82.58	28.57	-	-	-	INTERNAL CIRCLIP	4R SERIES	RUI-4000
MC-5030	G	1	-	-	-	42.88/88.89	115.05	-	WING TYPE	5C MECH-4XBLOCK(Straight)	114-5177
MC-5010	G	1	-	-	-	42.88	115.05	-	WING TYPE	5C(4LWT)	114-5122
MC-5050	G	1	-	-	-	42.88(P)	115.05(R)	-	WING TYPE	5C(2LWT+2LWD)	114-5173
MC-5100	B	1	-	84.30	33.33	-	-	-	INTERNAL CIRCLIP	5C(4RD)	114-5109
MC-6090	H	1	-	109.70	33.33	42.88	140.45	-	WING/INTERNAL CIRCLIP	6C(2HWD-2RDG)	114-6150
MC-7010	G	1	-	-	-	49.22	148.38	-	WING TYPE	7C(4LWT)	114-7100
MC-7050	G	1	-	-	-	49.20/117.48	148.38	-	WING TYPE	7C MECH-2XBLOCK 2XWING (Straight)	114-7102
MC-7090	H	1	-	111.14	41.275	49.20	148.38	49.20	INTERNAL CIRCLIP/WING	TOYOTA / TCM / JCB 7R-7C	RUI-7002
MC-8010	G	1	-	-	-	49.22	206.30	-	WING TYPE	8C(4WLT)	114-8100
MC-8030	G	1	-	-	-	49.22	206.30	-	WING TYPE	8C(4HWD)	114-8113
MC-8050	G	1	-	-	-	49.22	206.30	-	WING TYPE	8C(2LWT+2LWD)	114-8102

RUI Series

Part No.	Fig.	Lubrication	Dimensions						Remark	Description	Alternate Part No.
			L	LI	D	P	R	Hole Pitch			
RUI-2029	B	0	81.70	54.20	27.38/28.56	-	-	-	INTERNAL/EXTERNAL CIRCLIP		RUI-2029
RUI-2030	B	0	-	59.60	25.40	-	-	-	INTERNAL CIRCLIP	2R SERIES	RUI-2030
RUI-2030R	B	0	-	59.70	25.40	-	-	-	INTERNAL CIRCLIP	THRUST WASHERS IN CAP	RUI-2030
RUI-2038	B	0	-	54.20	27.38	-	-	-	INTERNAL CIRCLIP	21R SERIES	RUI-2038
RUI-2038SP	B	0	-	54.27	27.394	-	-	-	INTERNAL CIRCLIP	THRUST WASHERS IN CAP	RUI-2038
RUI-2039	B	1	81.70	59.70	26.99/28.57	-	-	59.53	INTERNAL/EXTERNAL CIRCLIP	1310 SERIES TO 9" FORD DIFF & 25R	RUI-2039
RUI-2500	B	0	-	59.70	28.57	-	-	-	INTERNAL CIRCLIP	25R SERIES	RUI-2500
RUI-2500SP	B	0	-	59.70	28.86	-	-	-	INTERNAL CIRCLIP	THRUST WASHERS IN CAP	RUI-2500
RUI-2503	B	2	-	59.70	28.57	-	-	-	INTERNAL CIRCLIP	25R SERIES LUBE	RUI-2503

L : (ASSY SIZE)
 D : (CASE SIZE)
 L' : (ASSY SIZE-SD)
 D' : (CASE SIZE-SD)

LI : (ASSY SIZE-INSIDE SNAP)
 R : (ASSY SIZE-WING TYPE)
 P : (HOLE PITCH)

Lubricator Types

- 0 : Lifetime lubrication
- 1 : Regular lube fitting on side of cross
- 2 : Regular lube fitting on end of bearing cup
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- 4 : Regular lube fitting on center of cross
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Assorted Series

Part No.	Fig.	Lubrication	Dimensions						Remark	Description	Alternate Part No.
			L	LI	D	P	R	Hole Pitch			
114-2101	B	1	-	59.55	25.40	-	-	-	INTERNAL CIRCLIP	2R SERIES	114-2101
114-3105	B	1	-	65.11	28.57	-	-	-	INTERNAL CIRCLIP	3R SERIES	114-3105
114-6102	G	1	-	-	-	42.88/114.29	114.30	-	WING TYPE	6C MECH-2XBLOCK 2XWING (Straight)	114-6114
114-8113	G	1	-	-	-	49.22/174.60	206.30	-	WING TYPE	8C MECH-4xBLOCK (Straight)	114-8113
35R	A	3	81.536	-	31.775	-	-	-	EXTERNAL CIRCLIP	ROCKWELL	CP35N-3
5-178-4X	A	1, 2	92.05	-	30.18	-	-	-	EXTERNAL CIRCLIP	1350 SERIES HEAVY DUTY	5-178XHD
55N	A	3	109.40	-	38.951	-	-	-	EXTERNAL CIRCLIP	ROCKWELL	CP55N
6R	B	3	-	36.77	24.61	-	-	-	INTERNAL CIRCLIP	L6N SERIES	114-1004
GUD-81	A	2	54.80	-	20.02	-	-	-	EXTERNAL CIRCLIP	DAIHATSU	K5-A510
GUD-84	A	3	80.00	-	28.00	-	-	-	EXTERNAL CIRCLIP	DAIHATSU	K5-A522
GUHO-2	A	2	63.80	-	25.00	-	-	-	EXTERNAL CIRCLIP	HONDA	K5-A557
GUHO-3	A	0	65.00	-	22.00	-	-	-	EXTERNAL CIRCLIP	HONDA	K5-A554
GUKO-8	G	1	-	-	-	71.44/123.85	165.01	-	WING TYPE	8.5C MECH-4xBLOCK (Straight)	114-8516
GUS-1	B	3	-	42.80	25.00	-	-	-	INTERNAL CIRCLIP	SUZUKI	RUJ-1795
GUS-6	J	0	59.80	-	20.06	-	-	-	STAKED TYPE	STAKED SUZUKI	K5-A649
S800	F	2	-	40.00	20.01	-	-	-	STAKED TYPE	TOYOTA T.C.M./KAWASAKI	RUJ-0603
ST-1639	J	0	39.00	-	16.00	-	-	-	STAKED TYPE	STAKED STEERING	K5-A666
RUJ-1786P	B	2	-	43.80	25.40	-	-	-	INTERNAL CIRCLIP	17R HOLDEN	RUJ-1786
RUJ-1786SP	B	0	-	43.90	25.40	-	-	-	INTERNAL CIRCLIP	THRUST WASHERS IN CAP	RUJ-1786

L : (ASSY SIZE)
 D : (CASE SIZE)
 L' : (ASSY SIZE-SD)
 D' : (CASE SIZE-SD)

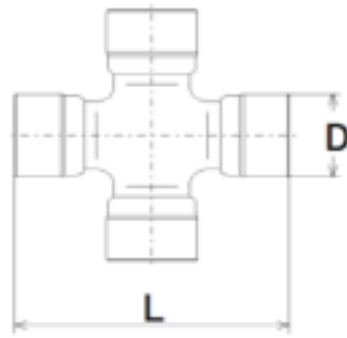
LI : (ASSY SIZE-INSIDE SNAP)
 R : (ASSY SIZE-WING TYPE)
 P : (HOLE PITCH)

Lubricator Types

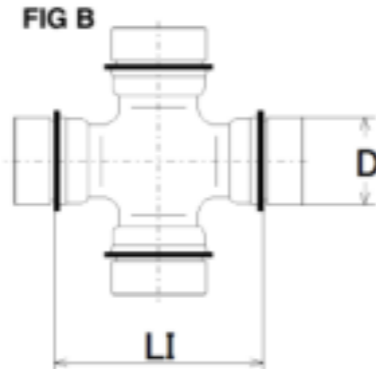
- 0 : Lifetime lubrication
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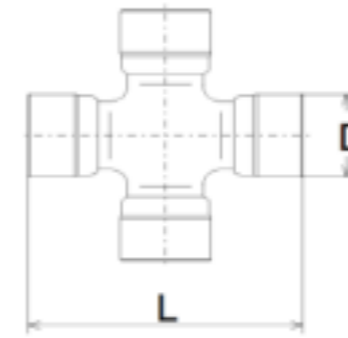
EXTERNAL CIRCLIP TYPE
FIG A



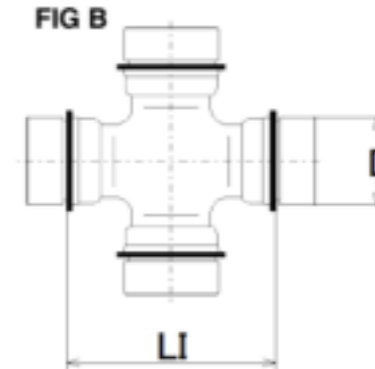
INTERNAL CIRCLIP TYPE
(INSIDE SNAP)
FIG B



EXTERNAL CIRCLIP TYPE
FIG A



INTERNAL CIRCLIP TYPE
(INSIDE SNAP)
FIG B



5 Series

P	Fig.	Lubrication	Dimensions						Remark	Description	GMB Part No.	Alternate Part No
			L	LI	D	P	R	Hole Pitch				
5-170X	B	3	-	38.10	23.80	-	-	-	LUBRICATED - CENTRE (GREASE NIPPLE LOCATED CENTRE OF CROSS)	1000 SERIES	G5-170X	-
5-178X	A	2	92.08	-	30.16	-	-	-	LUBRICATED - SIDE (GREASE NIPPLE LOCATED SIDE / BETWEEN BEARING CUPS)	1350 SERIES	G5-178X	-

CP Series

P	Fig.	Lubrication	Dimensions						Remark	Description	GMB Part No.	Alternate Part No
			L	LI	D	P	R	Hole Pitch				
CP-35N-1	-	3	-	-	-	-	-	-	LUBRICATED - CENTRE (GREASE NIPPLE LOCATED CENTRE OF CROSS)	ROCKWELL	CP35N-3	AM35
CP-55N	A	3	109.60	-	38.89	-	-	-	LUBRICATED - CENTRE (GREASE NIPPLE LOCATED CENTRE OF CROSS)	ROCKWELL	CP55N	AM55

K5 Series

P	Fig.	Lubrication	Dimensions						Remark	Description	GMB Part No.	Alternate Part No
			L	LI	D	P	R	Hole Pitch				
K5-13XR	A	2	81.76	-	26.99	-	-	-	LUBRICATED - SIDE (GREASE NIPPLE LOCATED SIDE / BETWEEN BEARING CUPS)	1310 SERIES	G5-153X	-
K5-A18R	A	3	92.08	-	30.20	-	-	-	LUBRICATED - CENTRE (GREASE NIPPLE LOCATED CENTRE OF CROSS)	1350/T60 PTO	GU-2200	A600
K5-A18RA	A	3	92.00	-	30.18	-	-	-	LUBRICATED - CENTRE (GREASE NIPPLE LOCATED CENTRE OF CROSS)	1350/T60 PTO	-	A622
K5-A536	A	3	106.30	-	30.20	-	-	-	LUBRICATED - CENTRE (GREASE NIPPLE LOCATED CENTRE OF CROSS)	1410 SERIES PTO	GU-2050	A700
K5-A538	A	3	106.30	-	34.93	-	-	-	LUBRICATED - CENTRE (GREASE NIPPLE LOCATED CENTRE OF CROSS)	1480 / T80 PTO	-	A824
K5-A546	A	3	51.96	-	19.05	-	-	-	LUBRICATED - CENTRE (GREASE NIPPLE LOCATED CENTRE OF CROSS)	500 SERIES CENTRE LUBE	GU-350A	A165
K5-A588	A	3	54.00	-	22.00	-	-	-	LUBRICATED - CENTRE (GREASE NIPPLE LOCATED CENTRE OF CROSS)	T10 PTO	GUA-3	A110
K5-A589	A	3	55.00	-	22.00	-	-	-	LUBRICATED - CENTRE (GREASE NIPPLE LOCATED CENTRE OF CROSS)	WALTERSCHEID	GUA-4	A010
K5-A590	A	3	70.00	-	27.00	-	-	-	LUBRICATED - CENTRE (GREASE NIPPLE LOCATED CENTRE OF CROSS)	T30 PTO	-	A311
K5-A591	A	3	80.00	-	30.20	-	-	-	LUBRICATED - CENTRE (GREASE NIPPLE LOCATED CENTRE OF CROSS)	PTO	GUA-11	A500
K5-A592	A	3	76.00	-	32.00	-	-	-	LUBRICATED - CENTRE (GREASE NIPPLE LOCATED CENTRE OF CROSS)	WALTERSCHEID	GUA-14	A035
K5-A593	A	3	89.00	-	36.00	-	-	-	LUBRICATED - CENTRE (GREASE NIPPLE LOCATED CENTRE OF CROSS)	WALTERSCHEID	GUA-20	A036
K5-A595	A	3	104.00	-	42.00	-	-	-	LUBRICATED - CENTRE (GREASE NIPPLE LOCATED CENTRE OF CROSS)	WALTERSCHEID	-	A026
K5-A64	A	3	61.30	-	23.80	-	-	-	LUBRICATED - CENTRE (GREASE NIPPLE LOCATED CENTRE OF CROSS)	1140/T20 PTO	GU-500	A220
K5-A693	A	3	94.00	-	35.00	-	-	-	LUBRICATED - CENTRE (GREASE NIPPLE LOCATED CENTRE OF CROSS)	BYPY	-	A7N
K5-GB10R	A	2	106.30	-	30.16	-	-	-	LUBRICATED - SIDE (GREASE NIPPLE LOCATED SIDE / BETWEEN BEARING CUPS)	1410 SERIES	GU-2000	A723
K5-LGB36R	A	3	74.61	-	26.99	-	-	-	LUBRICATED - CENTRE (GREASE NIPPLE LOCATED CENTRE OF CROSS)	1300/T40 PTO	GU-1100	A421

RUJ Series

P	Fig.	Lubrication	Dimensions						Remark	Description	GMB Part No.	Alternate Part No
			L	LI	D	P	R	Hole Pitch				
K5-LGB80R	A	2	61.30	-	23.80	-	-	-	LUBRICATED - SIDE (GREASE NIPPLE LOCATED SIDE / BETWEEN BEARING CUPS)	1140 AUTOMOTIVE	GUIS-56	-
RUJ-1788	B	3	-	46.04	26.99	-	-	-	LUBRICATED - CENTRE (GREASE NIPPLE LOCATED CENTRE OF CROSS)	12N SERIES	-	A222
RUJ-2038	B	1	-	54.00	27.39	-	-	-	NON LUBRICATED (NO GREASE NIPPLE)	21R SERIES	RUJ-2038	-
RUJ-2041	B	2	-	64.00	32.00	-	-	-	LUBRICATED - SIDE (GREASE NIPPLE LOCATED SIDE / BETWEEN BEARING CUPS)	TOYOTA LANDCRUISER	GUT-20	-
RUJ-2109	B	3	-	52.00	29.00	-	-	-	LUBRICATED - CENTRE (GREASE NIPPLE LOCATED CENTRE OF CROSS)	TOYOTA HILUX 4WD	GUT-21	-
RUJ-3002	A	2	92.08	-	26.99	-	-	-	LUBRICATED - SIDE (GREASE NIPPLE LOCATED SIDE / BETWEEN BEARING CUPS)	1330 SERIES	G5-1203X	-

PREMIUM UNIVERSAL JOINTS	
ALTERNATE PART NUMBERS	GMB PART NUMBERS
114-1004	6R
114-2101	114-2101
114-2110	MC-2011
114-2111	MC-2071
114-2501	GUT-27
114-3103	MC-3020
114-3105	114-3105
114-4100	MC-4010
114-5177	MC-5030
114-6114	114-6102
114-6128	G5-6106X
114-7102	MC-7050
114-7126	G5-7105X
114-7205	GUIS-60
114-8113	114-8113
114-8516	GUKO-8
5-155X	G5-155X
5-170X	G5-170X
5-178X	G5-178X
5-178XHD	5-178-4X
5-188X	GU-2300
5-279X	G5-279X
5-280X	G5-280X
5-281X	G5-281X
5-297X	G5-297X
5-330X	G5-330X
5-433-1X	G5-153XB0
5-618XD	GUN-54
CP35N-3	35R
CP55N	55N
K5-13XR	G5-153X
K5-A18R	GU-2200
K5-A510	GUMZ-2
K5-A517	GUT-19
K5-A522	GUD-84
K5-A530	G5-353X
K5-A532	GU-410
K5-A536	GU-2050
K5-A539	GU-350L
K5-A546	GU-350A
K5-A551	GUN-44
K5-A556	GUM-81
K5-A557	GUHD-2
K5-A563	GUM-75
K5-A587	GUA-1
K5-A588	GUA-3
K5-A589	GUA-4
K5-A591	GUA-11
K5-A592	GUA-14
K5-A593	GUA-20
K5-A594	GUA-21
K5-A596	GU-3840
K5-A611	GU-7420SPR
K5-A612	GU-7430

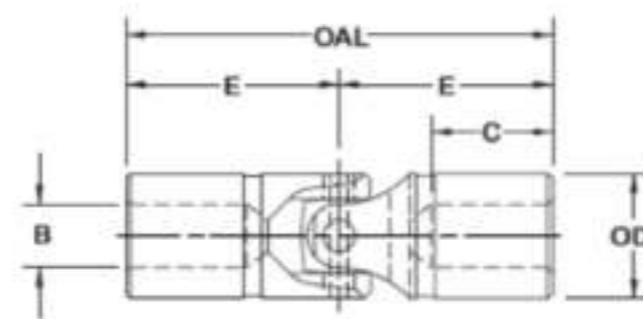
PREMIUM UNIVERSAL JOINTS	
ALTERNATE PART NUMBERS	GMB PART NUMBERS
K5-A64	GU-500
K5-A649	GUS-6
K5-A666	ST-1639
K5-A753	GUIS-72
K5-A757	GU-1100SP
K5-AB42	GUM-100
K5-GB10R	GU-2000
K5-LGB36R	GU-1100
K5-LGB80R	GUIS-56
RUJ-0603	S800
RUJ-1500	GUMZ-10
RUJ-1501	GUM-95
RUJ-1700	GUN-46
RUJ-1764	GU-5960
RUJ-1780	GUN-28
RUJ-1781	GUN-27
RUJ-1784	GUMZ-7
RUJ-1786	RUJ-1786P
RUJ-1795	GUS-1
RUJ-2016	GUT-12
RUJ-2023	GUMZ-6
RUJ-2028	GUN-29
RUJ-2030	RUJ-2030
RUJ-2032	G5-2140X
RUJ-2033	GUIS-71
RUJ-2034	G5-2173X
RUJ-2036	GUIS-52
RUJ-2038	RUJ-2038
RUJ-2039	RUJ-2039
RUJ-2041	GUT-20
RUJ-2041HD	GUT-20
RUJ-2045	GUM-88
RUJ-2046	MC-2021
RUJ-2049	GUMZ-9
RUJ-2050	GU-7280
RUJ-2100	GUT-21BO
RUJ-2109	GUT-21
RUJ-2109HD	GUT-23
RUJ-2500	RUJ-2500
RUJ-2503	RUJ-2503
RUJ-3002	G5-1203X
RUJ-3003	GUMZ-3
RUJ-3006	GUM-93
RUJ-3007	GUN-35
RUJ-3011	GUIS-74
RUJ-4000	MC-4100
RUJ-4005	MC-4070
RUJ-4010	GUM-99
RUJ-5001	GU-7470
RUJ-7002	MC-7090

ECONOMY UNIVERSAL JOINTS	
ALTERNATE PART NUMBERS	NBR PART NUMBERS
A010	K5-A589
A026	K5-A595
A035	K5-A592
A036	K5-A593
A110	K5-A588
A165	K5-A546
A220	K5-A64
A222	RUJ-1788
A311	K5-A590
A421	K5-LGB36R
A500	K5-A591
A600	K5-A18R
A622	K5-A18RA
A700	K5-A536
A723	K5-GB10R
A7N	K5-A693
A824	K5-A538
AM35	CP-35N-1
AM55	CP-55N
-	5-170X
-	5-178X
-	K5-13XR
-	K5-LGB80R
-	RUJ-2038
-	RUJ-2041
-	RUJ-2109
-	RUJ-3002

Finer Power Transmissions stocks a range of Universal Joints in D Type blank bores; the blank bore allows for any bore diameter up to the recommended maximum.

D Type:

Multi-purpose industrial type, standard pin and block design.



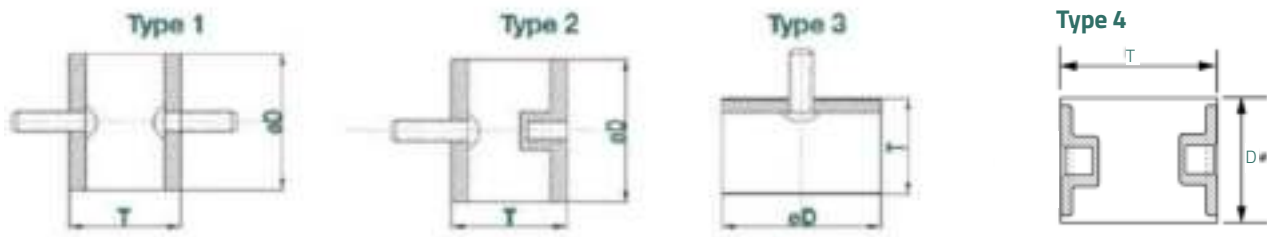
U- joint Size	Max. Bore No Keyway		Max. Bore with Keyway		Max. Square/ Hex Hole		OD	OAL	Bore Depth		Static Breaking Torques		App. Weight Kg
	in	mm	in	mm	in	mm			C	E	in-lb	Nm	
D-1	0.25	6	-	-	0.19	4	0.38	1.75	0.56	0.88	110	12	0.02
D-2	0.38	9	-	-	0.25	6	0.50	2.00	0.62	1.00	378	42	0.05
D-3	0.50	12	0.25	6	0.31	8	0.62	2.25	0.68	1.12	540	61	0.07
D-4	0.62	15	0.44	11	0.38	9	0.75	2.68	0.88	1.34	768	86	0.14
D-5	0.69	17	0.50	12	0.44	11	0.88	3.00	0.88	1.50	1176	132	0.21
D-6	0.75	19	0.56	13	0.50	12	1.00	3.38	1.00	1.68	1560	176	0.29
D-7	0.88	22	0.62	15	0.56	14	1.12	3.50	1.00	1.75	2880	325	0.38
D-8	1.00	25	0.75	18	0.62	15	1.25	3.75	1.06	1.88	5220	589	0.50
D-10	1.12	28	0.88	21	0.75	19	1.50	4.25	1.18	2.12	7920	895	0.82
D-11	1.25	31	1.00	25	0.88	22	1.75	5.00	1.38	2.50	10680	1206	1.36
D-12	1.50	38	1.19	30	1.00	25	2.00	5.44	1.50	2.75	15600	1762	1.90
D-13	1.75	44	1.50	39	1.12	28	2.50	7.00	2.00	3.50	33120	3742	3.86
D-14	2.00	50	1.81	48	1.38	35	3.00	9.06	2.75	4.53	65400	7389	7.25

Note: To disassemble - push pin that does not have the grease nipple.



ASSORTED PT

Anti Vibration Mounts	9.2.4
Circlips - Internal.....	9.2.7
Circlips - External	9.2.10
Stainless Steel Circlips - Internal	9.2.13
Stainless Steel Circlips - External	9.2.16
Heavy Duty Circlips - External	9.2.18
Key Steel	9.2.19
Motor Rails.....	9.2.20
Torque Limiters	9.2.21

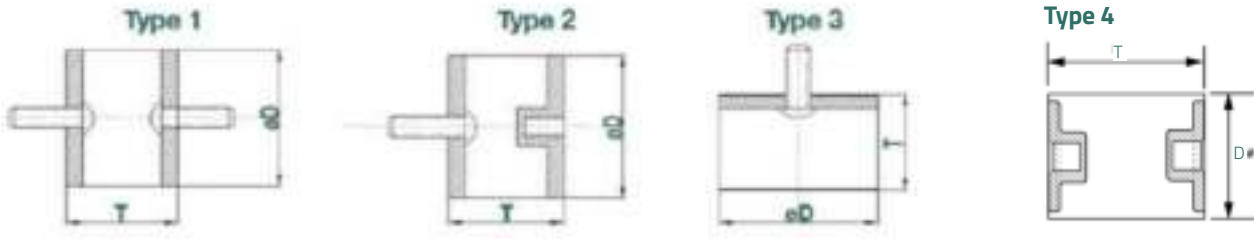


Shore Hardness	
A	40.5
B	55.65
C	65.75

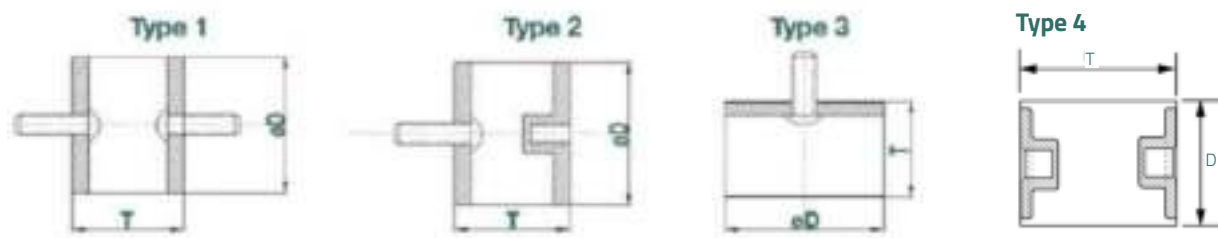


Size/Part No.	Shore Hardness	Type	Max Compressive Load(kg)	STATIC DEFL. (mm)	Thread Size	Bolt/Nut
F 13x13	a	1	4.5	1	3/16"BSW x 13L	3/16"BSW x 4 Deep
F 16x13	A	1	4.3	1	M5x0.8P x12L	M5x0.8P x5 Deep
		3				
F 16x15	A	1	4.1	1	M5x0.8P x12L	M5x0.8P x5 Deep
		2	4.3			
		3	4.5			
F 19x19	A	1	17	3	M6x1P x18L	M6 x 1P x6 Deep
	B	2	28			
F 20x20	A	1	55	4	M6x1P x15L	M6x1P x15L Deep
	B	2	55			
	C	3	55			
F 20x25	A	1	9.8	3	M6x1P x 18L M6*	M6 x 1P x 6 Deep
		4	30.5			-
	B	2	18			M6 x 1P x 6 Deep
		4	65			-
	C	3	30			M6 x 1P x 6 Deep
		4	89.5			-
F 25X20	A	1	33.8	3.5	M6 x 1P x 13L M6*	M6 x 1P x 6 Deep
		4	36			-
	B	2	55			M6 x 1P x 6 Deep
		4	54			-
	C	3	80			M6 x 1P x 6 Deep
		4	66			-

Anti Vibration Mounts



Size/Part No.	Shore Hardness	Type	Max Compressive Load(kg)	STATIC DEFL (mm)	Thread Size	Bolt/Nut
F 25X22	A	2	50	3.5	M8 x 1.25P x 18L	M8 x 1.25P x 7 Deep
F 25X30	A	1	13.8	3	M8 x 1.25P x 18 M6*	M8 x 1.25P x 7 Deep
		4	55			-
	B	2	23			M8 x 1.25P x 7 Deep
		4	98			-
	C	3	32			M8 x 1.25P x 7 Deep
		4	120			-
F 30x20	A	4	42	2.5	M8*	-
	B		62			
	C		82			
F 30X22	A	1	46	3.5	M8 x 1.25P x 23L	M8 x 1.25P x 7 Deep
		2	46			
F 30X30	A	1	21	3	M8 x 1.25P x 23L M8*	M8 x 1.25P x 7 Deep
		2	23			
		3	23			
		4	44			
	B	4	77			-
C		4	108	-		
	F 30x40	A	4	49.5	8	M8*
B		86				
C		131				
F 35X25	A	1	15	1.5	M10 x 1.5P x 38L	M10 x 1.5P x 10 Deep
	B	2	27			
	C	3				
F 38X25	A	1	65	4	M8 x 1.25P x 18L	M8 x 1.25P x 7 Deep
	B	2	127			
	C	3	165			
F 38X38	A	1	61	6	M8 x 1.25P x 18L	M8 x 1.25P x 7 Deep
	B		78			
	C		100			
F 40x30	A	4	60.5	5	M8 x 1.25P x 23L M8*	-
		1	108			M8 x 1.25P x 7 Deep
		2	108			-
	3	108	-			
	4	114	-			
	c	4	195			-
F 40x40	A	1	65	6	M10 x 1.5P x 38L M8	M10 x 1.5P x 10 Deep
		4	78			-
	B	2	93			M10 x 1.5P x 10 Deep
		4	148			-
	C	3	132			M10 x 1.5P x 10 Deep
		4	233			-



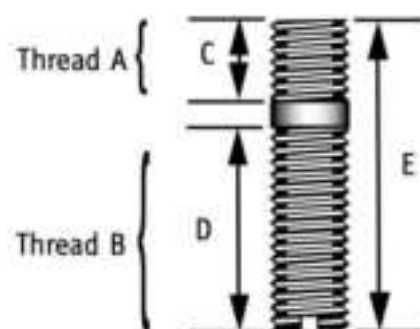
Size/Part No.	Shore Hardness	Type	Max Compressive Load(kg)	STATIC DEFL (mm)	Thread Size	Bolt/Nut
F 50x35	A	4	139.5	6	M10	-
	B		264			
	C		363			
F 50X40	A	1	83	5	M10 x 1.5P x 22L	M10 x 1.5P x 12 Deep
	B	2	149			
F 50X45	A	4	111.5	7	M10 x 1.5P x 25L M10*	-
	B	1	151			M10 x 1.5P x 12 Deep
		4	195			-
F 50X50	A	4	244	7	M10 x 1.5P x 22L	-
	B	1	71.5			M10 x 1.5P x 12 Deep
	C	2	132			-
F 55X38	A	3	202	7	M10 x 1.5P x 22L	-
	B	1	55			M10 x 1.5P x 12 Deep
	C	2	89			-
F 60X50	A	1	112	6.5	M12 x 1.75P x 27L	M12 x 1.75P x 15 Deep
	B	2	201			
	C	3	285			
F 75X50	A	4	150	6.5	M10	-
	B	4	280			
	C	4	390			
F 75X55	A	1	178	6	M12 x 1.75P x 37L	M12 x 1.75P x 15 Deep
	B	2	292			
	C	3	443			
F 80X60	A	1	230	8	M12 x 1.75P x 30L	M12 x 1.75P x 20 Deep
	B	2	352			
	C	3	505			
F 100X55	A	1	324	6	M16 x 2P x 43L	M16 x 2P x 20 Deep

NB. Relevant for Type 4 Female-Female Mounts – see Stud Details table for further information

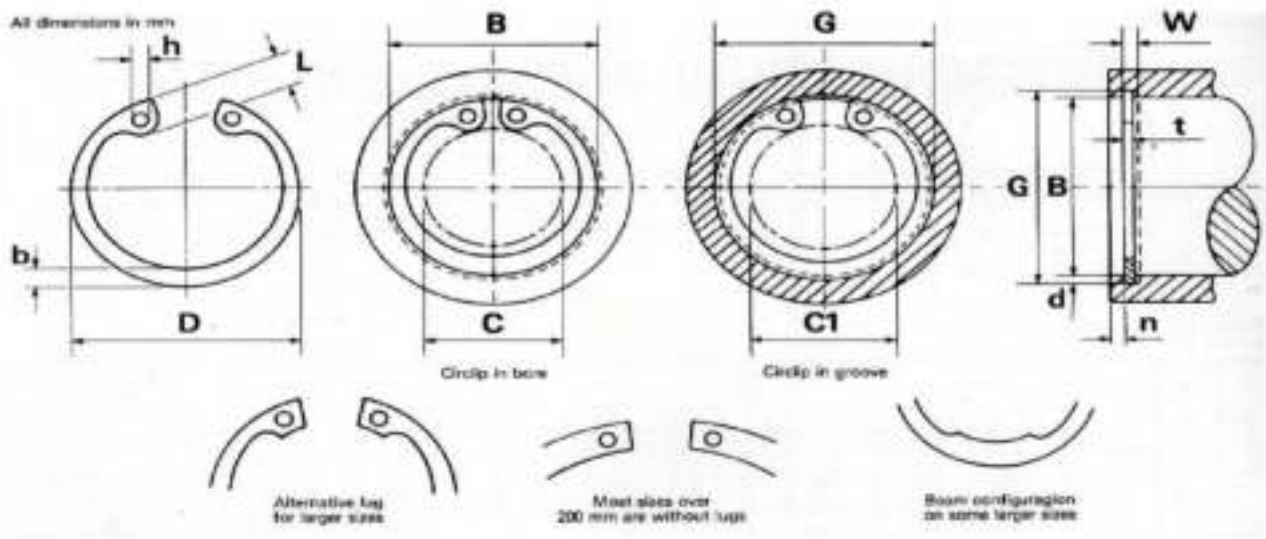
Stud Details

Stud Part No.	Threads		Dimensions		
	A	B	C	D	E
M10XM10	M10 x 1.5	M10 x 1.5	10	25	37
M10XM12	M10 x 1.5	M12 x 1.75	10	35	49
M6XM6	M6 x 1.0	M6 x 1.0	6	15	21
M6XM8	M6 x 1.0	M8 x 1.25	6	20	28
M8XM10	M8 x 1.25	M10 x 1.5	8	25	35
M8XM8	M8 x 1.25	M8 x 1.25	8	20	28

All Studs are continuous threads.



Circlips - Internal

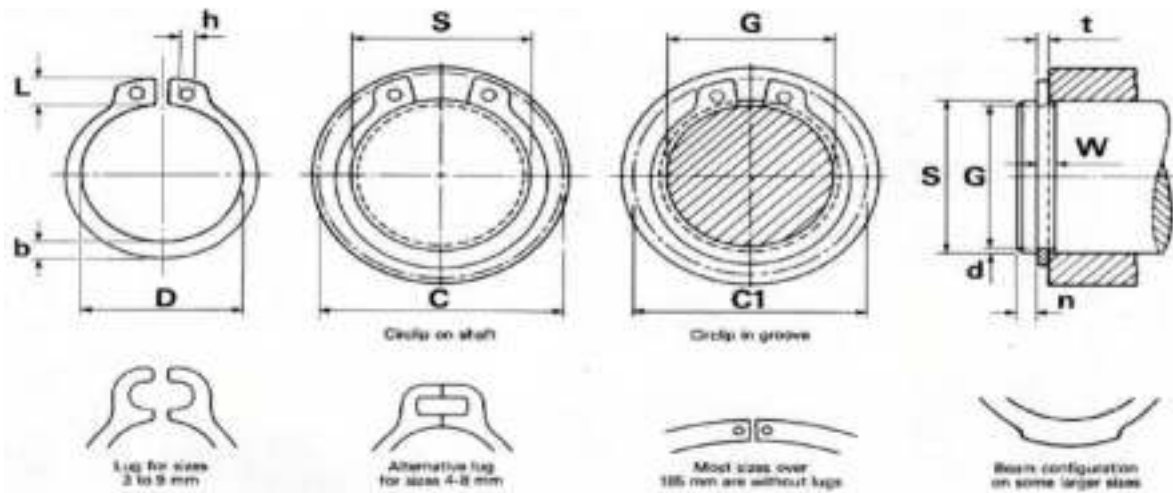


Circlips - Internal																		
SIZE CODE	BORE		GROOVE (G)						CIRCLIP (F)									
	B	G	Tol.	W	Tol.	n (min.)	d-	t	Tol.	D	Tol.	C	C1	L (max)	b-	h (min)		
1300-8	8	8.4	(+0.09 -0.00)	0.9	(+0.11 -0.00)	0.6	0.2	0.8	-	8.7	(+0.36 -0.10)	3	3.6	2.4	1.1	1		
1300-9	9	9.4		0.9		0.6	0.2	0.8	-	9.8		3.7	4.4	2.5	1.3	1		
1300-10	10	10.4	1.1	0.6		0.2	1	-	10.8	3.3		4	3.2	1.4	1.2			
1300-11	11	11.4	1.1	0.6		0.2	1	-	11.8	4.1		4.8	3.3	1.5	1.2			
1300-12	12	12.5	1.1	0.8		0.25	1	-	13	4.9		5.7	3.4	1.7	1.5			
1300-13	13	13.6	1.1	0.9		0.3	1	-	14.1	5.4		6.4	3.6	1.8	1.5			
1300-14	14	14.6	1.1	0.9		0.3	1	-	15.1	6.2		7.2	3.7	1.9	1.7			
1300-15	15	15.7	1.1	1.1		0.35	1	-	16.2	7.2		8.3	3.7	2	1.7			
1300-16	16	16.8	1.1	1.2		0.4	1	-	17.3	8		9.2	3.8	2	1.7			
1300-17	17	17.8	1.1	1.2		0.4	1	-	18.3	8.8		10	3.9	2.1	1.7			
1300-18	18	19	(+0.13 -0.00)	1.1	(+0.14 -0.00)	1.5	0.5	1	-	19.5	(+0.42 -0.13)	9.4	10.8	4.1	2.2	2		
1300-19	19	20		1.1		1.5	0.5	1	-	20.5		10.4	11.8	4.1	2.2	2		
1300-20	20	21		1.1		1.5	0.5	1	-	21.5		11.2	12.6	4.2	2.3	2		
1300-21	21	22		1.1		1.5	0.5	1	-	22.5		12.2	13.6	4.2	2.4	2		
1300-22	22	23	1.1	1.5		0.5	1	-	23.5	13.2		14.6	4.2	2.5	2			
1300-23	23	24.1	(+0.21 -0.00)	1.3		(+0.42 -0.21)	1.7	0.6	1.2	-		24.6	(+0.42 -0.21)	14.2	15.7	4.2	2.5	2
1300-24	24	25.2		1.3			1.8	0.6	1.2	-		25.9		14.8	16.4	4.4	2.6	2
1300-25	25	26.2		1.3			1.8	0.6	1.2	-		26.9		15.5	17.2	4.5	2.7	2
1300-26	26	27.2		1.3			1.8	0.6	1.2	-		27.9		16.1	17.8	4.7	2.8	2
1300-27	27	28.4		1.3			2.1	0.7	1.2	-		29.1		17.1	19	4.7	2.9	2
1300-28	28	29.4		1.3	2.1		0.7	1.2	-	30.1	17.9	19.8		4.8	2.9	2		
1300-29	29	30.4	(+0.25 -0.00)	1.3	(+0.42 -0.21)		2.1	0.7	1.2	-	31.1	(+0.42 -0.21)		18.9	20.8	4.8	3	2
1300-30	30	31.4		1.3			2.1	0.7	1.2	-	32.1			19.9	21.8	4.8	3	2
1300-31	31	32.7		1.3			2.6	0.85	1.2	-	33.4			20	22.3	5.2	3.2	2.5
1300-32	32	33.7		1.3			2.6	0.85	1.2	-	34.4			20.6	22.9	5.4	3.2	2.5
1300-33	33	34.7		1.3		2.6	0.85	1.2	-	35.5	21.6		23.9	5.4	3.3	2.5		

Circlips - Internal																
SIZE CODE	BORE		GROOVE (G)						CIRCLIP (F)							
	B	G	Tol.	W	Tol.	n (min.)	d~	t	Tol.	D	Tol.	C	C1	L (max)	b~	h (min)
1300-34	34	35.7	(+0.25 -0.00)	1.6	(+0.00 -0.06)	2.6	0.85	1.5		36.5	(+0.050 -0.025)	22.6	24.9	5.4	3.3	2.5
1300-35	35	37		1.6		3	1	1.5		37.8		23.6	26.2	5.4	3.4	2.5
1300-36	36	38		1.6		3	1	1.5		38.8		24.6	27.2	5.4	3.5	2.5
1300-37	37	39		1.6		3	1	1.5		39.8		25.4	28	5.5	3.6	2.5
1300-38	38	40		1.6		3	1	1.5		40.8		26.4	29	5.5	3.7	2.5
1300-39	39	41		1.6		3	1	1.5		42	27.3	29.8	5.6	3.8	2.5	
1300-40	40	42.5		1.85		3.8	1.25	1.75		43.5	27.8	30.9	5.8	3.9	2.5	
1300-41	41	43.5		1.85		3.8	1.25	1.75		44.5	28.6	31.7	5.9	4	2.5	
1300-42	42	44.5		1.85		3.8	1.25	1.75		45.5	29.6	32.7	5.9	4.1	2.5	
1300-43	43	45.5		1.85		3.8	1.25	1.75		46.5	30.6	33.7	5.9	4.2	2.5	
1300-44	44	46.5	1.85	3.8	1.25	1.75	47.5	31.4	34.5	6	4.2	2.5				
1300-45	45	47.5	1.85	3.8	1.25	1.75	48.5	32	35.1	6.5	4.3	2.5				
1300-46	46	48.5	1.85	3.8	1.25	1.75	49.5	32.8	35.9	6.3	4.4	2.5				
1300-47	47	49.5	1.85	3.8	1.25	1.75	50.5	33.5	36.7	6.4	4.4	2.5				
1300-48	48	50.5	1.85	3.8	1.25	1.75	51.5	34.5	37.7	6.4	4.5	2.5				
1300-50	50	53	2.15	4.5	1.5	2	54.2	36.3	40	6.5	4.6	2.5				
1300-51	51	54	2.15	4.5	1.5	2	55.2	37.3	41	6.5	4.7	2.5				
1300-52	52	55	2.15	4.5	1.5	2	56.2	37.9	41.6	6.7	4.7	2.5				
1300-53	53	56	2.15	4.5	1.5	2	57.2	39	42.6	6.7	4.9	2.5				
1300-54	54	57	2.15	4.5	1.5	2	58.2	40	43.6	6.7	5	2.5				
1300-55	55	58	2.15	4.5	1.5	2	59.2	40.7	44.4	6.8	5	2.5				
1300-56	56	59	2.15	4.5	1.5	2	60.2	41.7	45.4	6.8	5.1	2.5				
1300-57	57	60	2.15	4.5	1.5	2	61.2	42.7	46.4	6.8	5.2	2.5				
1300-58	58	61	2.15	4.5	1.5	2	62.2	43.5	47.2	6.9	5.2	2.5				
1300-60	60	63	2.15	4.5	1.5	2	64.2	44.7	48.4	7.3	5.4	2.5				
1300-61	61	64	2.15	4.5	1.5	2	65.2	45.7	49.4	7.3	5.4	2.5				
1300-62	62	65	2.15	4.5	1.5	2	66.2	46.7	50.4	7.3	5.5	2.5				
1300-63	63	66	2.15	4.5	1.5	2	67.2	47.7	51.4	7.3	5.6	2.5				
1300-64	64	67	2.15	4.5	1.5	2	68.2	48.7	52.4	7.4	5.7	2.5				
1300-65	65	68	2.65	4.5	1.5	2.5	69.2	49	52.8	7.6	5.8	3				
1300-67	67	70	2.65	4.5	1.5	2.5	71.5	50.8	54.6	7.7	6	3				
1300-68	68	71	2.65	4.5	1.5	2.5	72.5	51.6	55.4	7.8	6.1	3				
1300-70	70	73	2.65	4.5	1.5	2.5	74.5	53.6	57.4	7.8	6.2	3				
1300-72	72	75	2.65	4.5	1.5	2.5	76.5	55.6	59.4	7.8	6.4	3				
1300-75	75	78	2.65	4.5	1.5	2.5	79.5	58.6	62.4	7.8	6.6	3				
1300-77	77	80	2.65	4.5	1.5	2.5	82.5	59.2	63	8.5	6.8	3				
1300-78	78	81	2.65	4.5	1.5	2.5	82.5	60.1	64	8.5	6.8	3				
1300-80	80	83.5	2.65	5.3	1.75	2.5	85.5	62.1	66.5	8.5	7	3				
1300-81	81	84.5	2.65	5.3	1.75	2.5	86.5	62.2		8.5	7	3				

Circlips - Internal																
SIZE CODE	BORE		GROOVE (G)						CIRCLIP (F)							
	B	G	Tol.	W	Tol.	n (min.)	d~	t	Tol.	D	Tol.	C	C1	L (max)	b~	h (min)
1300-82	82	85.5	(+0.35 (-)0.00	2.65	(+0.14 (-)0.00	5.3	1.75	2.5	(+0.00 (-)0.07	87.5	(+1.30 (-)0.54	64.1	68.5	8.5	7	3
1300-83	83	86.5		2.65		5.3	1.75	2.5		88.5		65.2	69.5	8.5	7	3
1300-85	85	88.5		3.15	5.3	1.75	3	90.5	66.9	71.3		8.6	7.2	3.5		
1300-87	87	90.5		3.15	5.3	1.75	3	93.5	69	73.3		8.6	7.4	3.5		
1300-88	88	91.5		3.15	5.3	1.75	3	93.5	69.9	74.3		8.6	7.4	3.5		
1300-90	90	93.5		3.15	5.3	1.75	3	95.5	71.9	76.3		8.6	7.6	3.5		
1300-92	92	95.5		3.15	5.3	1.75	3	97.5	73.7	78.1		8.7	7.8	3.5		
1300-95	95	98.5		3.15	5.3	1.75	3	100.5	76.5	80.9		8.8	8.1	3.5		
1300-97	97	100.5		3.15	5.3	1.75	3	103.5	78.1	82.5		9	8.3	3.5		
1300-98	98	101.5		3.15	5.3	1.75	3	103.5	79	83.5		9	8.3	3.5		
1300-100	100	103.5	3.15	5.3	1.75	3	105.5	80.6	85.1	9.2	8.4	3.5				
1300-102	102	106	(+0.54 (-)0.00	4.15	(+0.18 (-)0.00	6	2	4	(+0.00 (-)0.10	108	(+1.50 (-)0.63	82	87	9.5	8.5	3.5
1300-105	105	109		4.15		6	2	4		112		85	90	9.5	8.7	3.5
1300-107	107	111		4.15		6	2	4		115		87	92	9.5	8.9	3.5
1300-108	108	112		4.15		6	2	4		115		88	93	9.5	8.9	3.5
1300-110	110	114		4.15		6	2	4		117		88.2	93.2	10.4	9	3.5
1300-112	112	116		4.15		6	2	4		119		90	95	10.5	9.1	3.5
1300-115	115	119		4.15		6	2	4		122		93	98	10.5	9.3	3.5
1300-117	117	121		4.15		6	2	4		125		94.6	99.6	10.7	9.6	3.5
1300-118	118	122		4.15		6	2	4		125		95.6	100.6	10.7	9.6	3.5
1300-120	120	124		4.15		6	2	4		127		96.9	102	11	9.7	3.5
1300-125	125	129	(+0.63 (-)0.00	4.15	(+0.18 (-)0.00	6	2	4	(+0.00 (-)0.10	132	(+1.50 (-)0.63	101.9	107	11	10	4
1300-127	127	131		4.15		6	2	4		135		103.9	109	11	10	4
1300-128	128	132		4.15		6	2	4		135		104.9	110	11	10	4
1300-130	130	134		4.15		6	2	4		137		106.9	112	11	10.2	4
1300-135	135	139		4.15		6	2	4		142		111.5	116	11.2	10.5	4
1300-140	140	144		4.15		6	2	4		147		116.5	121	11.2	10.7	4
1300-145	145	149		4.15		6	2	4		152		121	126	11.4	10.9	4
1300-150	150	155		4.15		7.5	2.5	4		158		124.8	131	12	11.2	4
1300-155	155	160		4.15		7.5	2.5	4		164		129.8	136	12	11.4	4
1300-160	160	165		4.15		7.5	2.5	4		169		132.7	144	13	11.6	4
1300-165	165	170	(+0.72 (-)0.00	4.15	(+0.18 (-)0.00	7.5	2.5	4	(+0.00 (-)0.10	174.5	(+1.7 (-)0.72	137.7	144	13	11.8	4
1300-170	170	175		4.15		7.5	2.5	4		179.5		141.6	148	13.5	12.2	4
1300-175	175	180		4.15		7.5	2.5	4		184.5		146.6	153	13.5	12.7	4
1300-180	180	185		4.15		7.5	2.5	4		189.5		150.2	156	14.2	13.2	4
1300-185	185	190		4.15		7.5	2.5	4		194.5		155.2	161	14.2	13.7	4
1300-190	190	195		4.15		7.5	2.5	4		199.5		160.2	166	14.2	13.8	4
1300-195	195	200		4.15		7.5	2.5	4		204.5		165.2	171	14.2	13.8	4
1300-200	200	205		4.15		7.5	2.5	4		209.5		170.2	176	14.2	14	4

Circlips - External



Circlips - External																		
SIZE CODE	SHAFT	GROOVE (G)							CIRCLIP (F)									
	S	G	Tol.		W	Tol.	n (min.)	d~	t	Tol.	D	Tol.	C	C1	L (max)	b~	h (min)	
1400-3	3	2.8	(+)0.00	(-)0.04	0.5		0.3	0.1	0.4		2.7		7	6.6	1.9	0.8	1	
1400-4	4	3.8	(+)0.00	(-)0.048	0.5	(+)0.14	(-)0.00	0.3	0.1	0.4	(+)0.00	(-)0.05	8.6	8.2	2.2	0.9	1	
1400-5	5	4.8			0.7			0.3	0.1	0.6			4.7	10.3	9.8	2.5	1.1	1
1400-6	6	5.7			0.8			0.5	0.15	0.7			5.6	11.7	11.1	2.7	1.3	1.2
1400-7	7	6.7	(+)0.00	(-)0.06	0.9			0.5	0.15	0.8	6.5	(+)0.06	(-)0.18	13.5	12.9	3.1	1.4	1.2
1400-8	8	7.6			0.9			0.6	0.2	0.8	7.4			14.7	14	3.2	1.5	1.2
1400-9	9	8.6			1.1			0.6	0.2	1	8.4			16	15.2	3.3	1.7	1.2
1400-10	10	9.6	(+)0.00	(-)0.11	1.1			0.6	0.2	1	9.3	(+)0.00	(-)0.06	17	16.2	3.3	1.8	1.5
1400-11	11	10.5			1.1			0.8	0.25	1	10.2			18	17.1	3.3	1.8	1.5
1400-12	12	11.5			1.1			0.8	0.25	1	11			19	18.1	3.3	1.8	1.7
1400-13	13	12.4			1.1			0.9	0.3	1	11.9			20.2	19.2	3.4	2	1.7
1400-14	14	13.4			1.1			0.9	0.3	1	12.9			21.4	20.4	3.5	2.1	1.7
1400-15	15	14.3			1.1			1.1	0.35	1	13.8			22.5	21.5	3.6	2.2	1.7
1400-16	16	15.2			1.1			1.2	0.4	1	14.7			23.8	22.6	3.7	2.2	1.7
1400-17	17	16.2			1.1			1.2	0.4	1	15.7			25	23.8	3.8	2.3	1.7
1400-18	18	17			1.3			1.5	0.5	1.2	16.5			26.2	24.8	3.9	2.4	2
1400-19	19	18			1.3	1.5	0.5	1.2	17.5	27.2	25.8			3.9	2.5	2		
1400-20	20	19	(+)0.00	(-)0.13	1.3	1.5	0.5	1.2	18.5	(+)0.13	(-)0.42	28.4	27	4	2.6	2		
1400-21	21	20			1.3	1.5	0.5	1.2	19.5			29.6	28.2	4.1	2.7	2		
1400-22	22	21			1.3	1.5	0.5	1.2	20.5			30.8	29.4	4.2	2.8	2		
1400-23	23	22			1.3	1.5	0.5	1.2	21.5			32	30.6	4.3	2.9	2		
1400-24	24	22.9	(+)0.00	(-)0.21	1.3	1.7	0.55	1.2	22.2	(+)0.21	(-)0.42	33.2	31.7	4.4	3	2		
1400-25	25	23.9			1.3	1.7	0.55	1.2	23.2			34.2	32.7	4.4	3	2		
1400-26	26	24.9			1.3	1.7	0.55	1.2	24.2			35.5	33.9	4.5	3.1	2		
1400-27	27	25.6			1.3	2.1	0.7	1.2	24.9			36.7	34.8	4.6	3.1	2		
1400-28	28	26.6			1.6	2.1	0.7	1.5	25.9			37.9	36	4.7	3.2	2		

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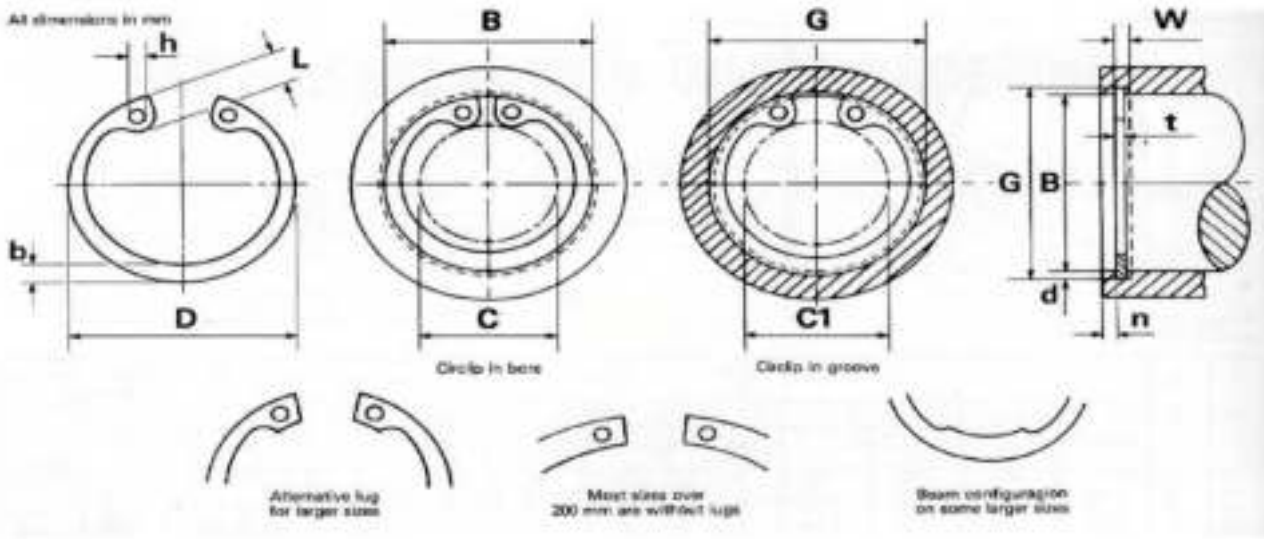
Circlips - External

Circlips - External																
SIZE CODE	SHAFT		GROOVE (G)						CIRCLIP (F)							
	S	G	Tol.	W	Tol.	n (min.)	d~	t	Tol.	D	Tol.	C	C1	L (max)	b~	h (min)
1400-29	29	27.6		1.6		2.1	0.7	1.5		26.9		39.1	37.2	4.8	3.4	2
1400-30	30	28.6	(+)0.00 (-)0.21	1.6		2.1	0.7	1.5		27.9	(+)0.21 (-)0.42	40.5	38.6	5	3.5	2
1400-31	31	29.3		1.6		2.6	0.85	1.5		28.6		41.7	40.9	5.1	3.5	2.5
1400-32	32	30.3		1.6		2.6	0.85	1.5		29.6		43	40.7	5.2	3.6	2.5
1400-33	33	31.3		1.6		2.6	0.85	1.5		30.5		44	41.7	5.2	3.7	2.5
1400-34	34	32.3		1.6		2.6	0.85	1.5		31.5		45.4	43.1	5.4	3.8	2.5
1400-35	35	33		1.6		3	1	1.5		32.2		46.8	44.2	5.6	3.9	2.5
1400-36	36	34		1.85		3	1	1.75		33.2	(+)0.25 (-)0.5	47.8	45.2	5.6	4	2.5
1400-37	37	35		1.85		3	1	1.75		34.2		49	47	5.7	4.1	2.5
1400-38	38	36		1.85		3	1	1.75		35.2		50.2	47.6	5.8	4.2	2.5
1400-39	39	37		1.85		3	1	1.75	(+)0.00 (-)0.06	36		51.4	48.5	5.9	4.3	2.5
1400-40	40	37.5		1.85		3.8	1.25	1.75		36.5		52.6	49.5	6	4.4	2.5
1400-41	41	38.5	(+)0.00 (-)0.25	1.85		3.8	1.25	1.75		37.5		54	51.5	6.2	4.5	2.5
1400-42	42	39.5		1.85		3.8	1.25	1.75		38.5		55.7	52.5	6.5	4.5	2.5
1400-43	43	40.5		1.85		3.8	1.25	1.75		39.5		56.8	53.5	6	5.3	2.5
1400-44	44	41.5		1.85		3.8	1.25	1.75		40.5		57.9	55.4	6.6	4.6	2.5
1400-45	45	42.5		1.85		3.8	1.25	1.75		41.5		59.1	55.9	6.7	4.7	2.5
1400-46	46	43.5		1.85		3.8	1.25	1.75		42.5	(+)0.39 (-)0.90	60.1	56.9	6.7	4.8	2.5
1400-47	47	44.5		1.85		3.8	1.25	1.75		43.5		61.3	58.1	6.8	4.9	2.5
1400-48	48	45.5		1.85	(+)0.14 (-)0.00	3.8	1.25	1.75		44.5		62.5	59.3	6.9	5	2.5
1400-50	50	47		2.15		4.5	1.5	2		45.8		64.5	60.8	6.9	5.1	2.5
1400-51	51	48		2.15		4.5	1.5	2		46.8		65.6	61.9	6.9	5	2.5
1400-52	52	49		2.15		4.5	1.5	2		47.8		66.7	63	7	5.2	2.5
1400-53	53	50		2.15		4.5	1.5	2		48.8		68.8	64.1	7	6.3	2.5
1400-54	54	51		2.15		4.5	1.5	2		49.8		69	65.2	7.1	5.3	2.5
1400-55	55	52		2.15		4.5	1.5	2		50.8		70.2	66.4	7.2	5.4	2.5
1400-56	56	53		2.15		4.5	1.5	2		51.8		71.6	67.6	7.3	5.5	2.5
1400-57	57	54		2.15		4.5	1.5	2		52.8		72.3	69.3	7.3	5.5	2.5
1400-58	58	55		2.15		4.5	1.5	2		53.8		73.6	69.6	7.3	5.6	2.5
1400-60	60	57		2.15		4.5	1.5	2	(+)0.00 (-)0.07	55.8		75.6	71.8	7.4	5.8	2.5
1400-61	61	58	(+)0.00 (-)0.30	2.15		4.5	1.5	2		56.8		76.7	72.9	7.4	5.9	2.5
1400-62	62	59		2.15		4.5	1.5	2		57.8	(+)0.46 (-)1.10	77.8	74	7.5	6	2.5
1400-63	63	60		2.15		4.5	1.5	2		58.8		79	75.2	7.6	6.2	2.5
1400-64	64	61		2.15		4.5	1.5	2		59.8		80.2	76.4	7.8	7.4	2.5
1400-65	65	62		2.65		4.5	1.5	2.5		60.8		81.4	77.6	7.8	6.3	3
1400-67	67	64		2.65		4.5	1.5	2.5		62.5		83.6	79.8	7.9	6.4	3
1400-68	68	65		2.65		4.5	1.5	2.5		63.5		84.4	81	8	6.5	3
1400-70	70	67		2.65		4.5	1.5	2.5		65.5		87	83.2	8.1	6.6	3
1400-72	72	69		2.65		4.5	1.5	2.5		67.5		89.2	85.4	8.2	6.8	3

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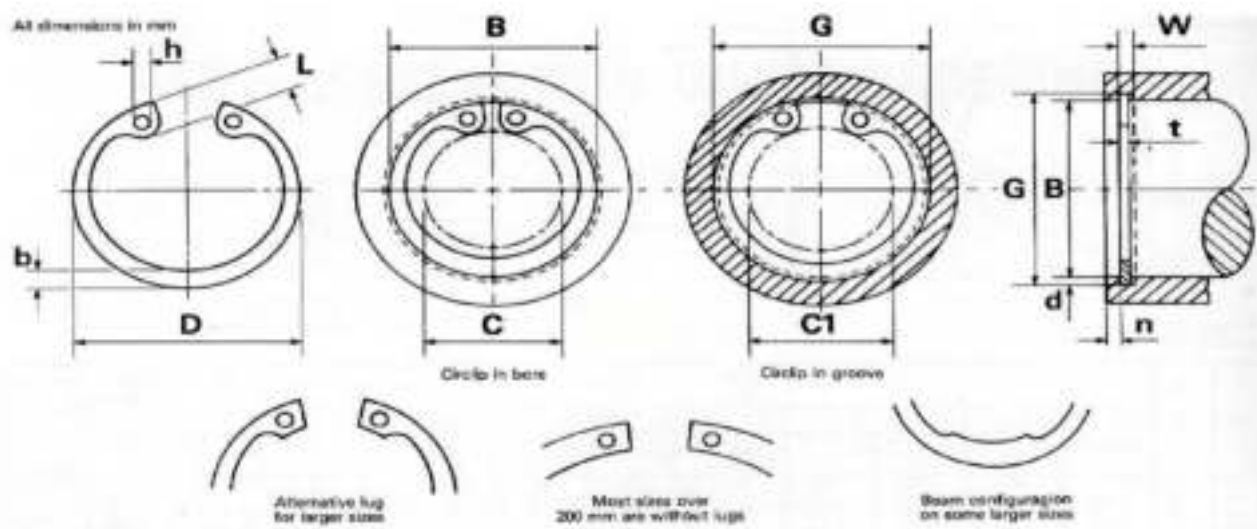
Circlips - External																
SIZE CODE	SHAFT	GROOVE (G)						CIRCLIP (F)								
	S	G	Tol.	W	Tol.	n (min.)	d~	t	Tol.	D	Tol.	C	C1	L (max)	b~	h (min)
1400-75	75	72	(+0.00 (-)0.30	2.65	(+0.14 (-)0.00	4.5	1.5	2.5	(+0.00 (-)0.07	70.5	(+0.46 (-)1.10	92.7	88.8	8.4	7	3
1400-77	77	74		2.65		4.5	1.5	2.5		72.5		94.9	91	8.5	7.2	3
1400-78	78	75		2.65		4.5	1.5	2.5		73.5		96.1	92.2	8.6	7.3	3
1400-80	80	76.5		2.65		5.3	1.75	2.5		74.5		98.1	93.7	8.6	7.4	3
1400-82	82	78.5		2.65		5.3	1.75	2.5		76.5		100.3	95.9	8.7	7.6	3
1400-85	85	81.5	(+0.00 (-)0.35	3.15	(+0.18 (-)0.00	5.3	1.75	3	(+0.00 (-)0.08	79.5	(+0.54 (-)1.30	103.3	98.9	8.7	7.8	3.5
1400-87	87	83.5		3.15		5.3	1.75	3		81.5		105.5	100.9	8.8	7.9	3.5
1400-88	88	84.5		3.15		5.3	1.75	3		82.5		106.5	102	8.8	8	3.5
1400-90	90	86.5		3.15		5.3	1.75	3		84.5		108.5	104	8.8	8.2	3.5
1400-92	92	88.5		3.15		5.3	1.75	3		86.5		110.9	107.4	9	8.4	3.5
1400-95	95	91.5		3.15		5.3	1.75	3		89.5		114.8	111	9.4	8.6	3.5
1400-97	97	93.5		3.15		5.3	1.75	3		91.5		116.7	113.2	9.4	8.8	3.5
1400-98	98	94.5		3.15		5.3	1.75	3		91.5		118.6	114	9.4	8.8	3.5
1400-100	100	96.5		3.15		5.3	1.75	3		94.5		120.2	116	9.6	9	3.5
1400-102	102	98		4.15		6	2	4		95		122.4	118	9.7	9.2	3.5
1400-105	105	101	(+0.00 (-)0.54	4.15	(+0.18 (-)0.00	6	2	4	(+0.00 (-)0.1	98	(+0.63 (-)1.5	126.2	122	9.9	9.3	3.5
1400-110	110	106		4.15		6	2	4		103		131.2	127	10.1	9.6	3.5
1400-112	112	108		4.15		6	2	4		105		133.6	129.6	10.3	9.7	3.5
1400-115	115	111		4.15		6	2	4		108		137.3	133	10.6	9.8	3.5
1400-120	120	116		4.15		6	2	4		113		143.1	138	11	10.2	3.5
1400-122	122	118		4.15		6	2	4		115		145.5	141.5	11.2	10.3	4
1400-125	125	121		4.15		6	2	4		118		149	144	11.4	10.4	4
1400-127	127	123		4.15		6	2	4		120		150.9	146.8	11.4	10.5	4
1400-128	128	124		4.15		6	2	4		120		151.9	147.9	11.4	10.5	4
1400-130	130	126		4.15		6	2	4		123		154.4	150	11.6	10.7	4
1400-135	135	131	(+0.00 (-)0.63	4.15	(+0.18 (-)0.00	6	2	4	(+0.00 (-)0.1	128	(+0.63 (-)1.5	159.8	155	11.8	11	4
1400-140	140	136		4.15		6	2	4		133		165.2	160	12	11.2	4
1400-145	145	141		4.15		6	2	4		138		170.6	166	12.2	11.5	4
1400-150	150	145		4.15		7.5	2.5	4		142		177.3	171	13	11.8	4
1400-155	155	150		4.15		7.5	2.5	4		146		182.3	176	13	12	4
1400-160	160	155		4.15		7.5	2.5	4		151		188	182	13.3	12.2	4
1400-165	165	160		4.15		7.5	2.5	4		155.5		193.4	187	13.5	12.5	4
1400-170	170	165		4.15		7.5	2.5	4		160.5		198.4	192	13.5	12.9	4
1400-175	175	170		4.15		7.5	2.5	4		165.5		203.4	197	13.5	12.9	4
1400-180	180	175		4.15		7.5	2.5	4		170.5		210	204	14.2	13.5	4
1400-185	185	180	(+0.00 (-)0.72	4.15	(+0.18 (-)0.00	7.5	2.5	4	(+0.00 (-)0.1	175.5	(+0.72 (-)1.7	215.2	209	14.2	13.5	4
1400-190	190	185		4.15		7.5	2.5	4		180.5		220	214	14.2	14	4
1400-195	195	190		4.15		7.5	2.5	4		185.5		225	219	14.2	14	4
1400-200	200	195		4.15		7.5	2.5	4		190.5		230	224	14.2	14	4

Stainless Steel Circlips - Internal



Stainless Steel Circlips - Internal																
SIZE CODE	BORE		GROOVE (G)							CIRCLIP (F)						
	B	G	Tol.	W	Tol.	n (min.)	d~	t	Tol.	D	Tol.	C	C1	L (max)	b~	h (min)
1300-10	10	10.4	(+0.11 -0.00)	1.1	(+0.14 -0.00)	0.6	0.2	1	-	10.8	-	3.3	4	3.2	1.4	1.2
1300-11	11	11.4		1.1		0.6	0.2	1	-	11.8		4.1	4.8	3.3	1.5	1.2
1300-12	12	12.5		1.1		0.8	0.25	1	-	13		4.9	5.7	3.4	1.7	1.5
1300-13	13	13.6		1.1		0.9	0.3	1	-	14.1		5.4	6.4	3.6	1.8	1.5
1300-14	14	14.6		1.1		0.9	0.3	1	-	15.1		6.2	7.2	3.7	1.9	1.7
1300-15	15	15.7		1.1		1.1	0.35	1	-	16.2		7.2	8.3	3.7	2	1.7
1300-16	16	16.8		1.1		1.2	0.4	1	-	17.3		8	9.2	3.8	2	1.7
1300-17	17	17.8	1.1	1.2	0.4	1	-	18.3	8.8	10	3.9	2.1	1.7			
1300-18	18	19	(+0.13 -0.00)	1.1	(+0.14 -0.00)	1.5	0.5	1	-	19.5	(+0.42 -0.13)	9.4	10.8	4.1	2.2	2
1300-19	19	20		1.1		1.5	0.5	1	-	20.5		10.4	11.8	4.1	2.2	2
1300-20	20	21		1.1		1.5	0.5	1	-	21.5		11.2	12.6	4.2	2.3	2
1300-21	21	22		1.1		1.5	0.5	1	-	22.5		12.2	13.6	4.2	2.4	2
1300-22	22	23	1.1	1.5	0.5	1	-	23.5	13.2	14.6	4.2	2.5	2			
1300-24	24	25.2	(+0.21 -0.00)	1.3	(+0.14 -0.00)	1.8	0.6	1.2	-	25.9	(+0.42 -0.21)	14.8	16.4	4.4	2.6	2
1300-25	25	26.2		1.3		1.8	0.6	1.2	-	26.9		15.5	17.2	4.5	2.7	2
1300-26	26	27.2		1.3		1.8	0.6	1.2	-	27.9		16.1	17.8	4.7	2.8	2
1300-27	27	28.4		1.3		2.1	0.7	1.2	-	29.1		17.1	19	4.7	2.9	2
1300-28	28	29.4	1.3	2.1	0.7	1.2	-	30.1	17.9	19.8	4.8	2.9	2			
1300-29	29	30.4	(+0.25 -0.00)	1.3	(+0.14 -0.00)	2.1	0.7	1.2	-	31.1	(+0.42 -0.21)	18.9	20.8	4.8	3	2
1300-30	30	31.4		1.3		2.1	0.7	1.2	-	32.1		19.9	21.8	4.8	3	2
1300-32	32	33.7		1.3		2.6	0.85	1.2	-	34.4		20.6	22.9	5.4	3.2	2.5

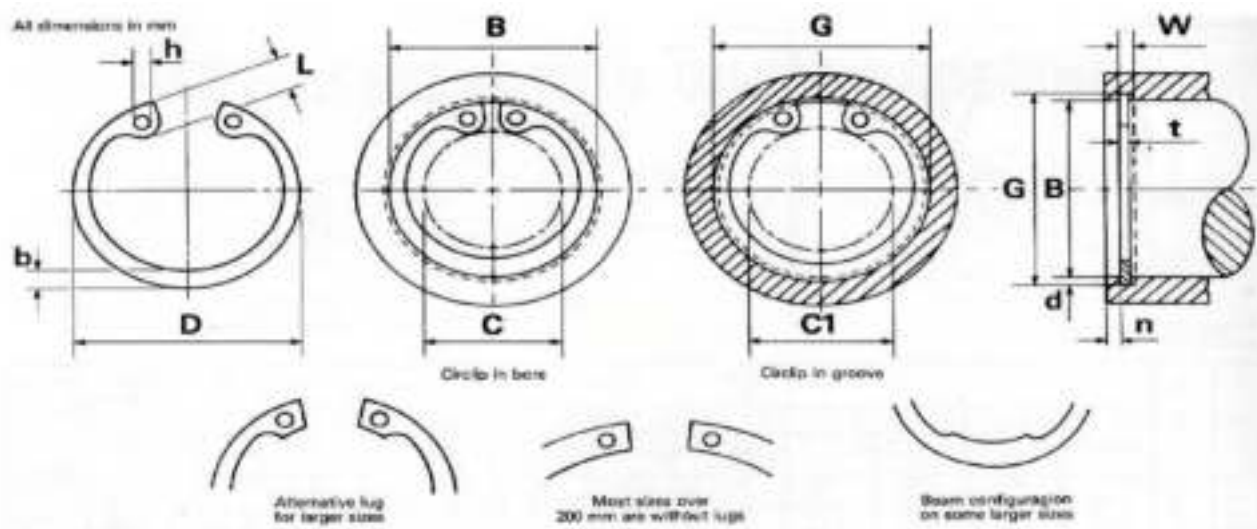
Stainless Steel Circlips - Internal



Stainless Steel Circlips - Internal

SIZE CODE	BORE		GROOVE (G)						CIRCLIP (F)										
	B	G	Tol.	W	Tol.	n (min.)	d~	t	Tol.	D	Tol.	C	C1	L (max)	b~	h (min)			
1300-34	34	35.7	(+0.25 (-)0.00	1.6	(+0.00 (-)0.06	2.6	0.85	1.5		36.5		22.6	24.9	5.4	3.3	2.5			
1300-35	35	37		1.6		3	1	1.5		37.8		23.6	26.2	5.4	3.4	2.5			
1300-36	36	38		1.6		3	1	1.5		38.8		(+0.50 (-)0.25	24.6	27.2	5.4	3.5	2.5		
1300-37	37	39		1.6		3	1	1.5		39.8		25.4	28	5.5	3.6	2.5			
1300-38	38	40		1.6		3	1	1.5		40.8		26.4	29	5.5	3.7	2.5			
1300-39	39	41		1.6		3	1	1.5		42		27.3	29.8	5.6	3.8	2.5			
1300-40	40	42.5		1.85		3.8	1.25	1.75		43.5		(+0.90 (-)0.39	27.8	30.9	5.8	3.9	2.5		
1300-42	42	44.5		1.85		3.8	1.25	1.75		45.5		29.6	32.7	5.9	4.1	2.5			
1300-45	45	47.5		1.85		3.8	1.25	1.75		48.5		32	35.1	6.5	4.3	2.5			
1300-47	47	49.5		1.85		3.8	1.25	1.75		50.5		33.5	36.7	6.4	4.4	2.5			
1300-50	50	53	(+0.30 (-)0.00	2.15	(+0.14 (-)0.00	4.5	1.5	2	(+0.00 (-)0.07	54.2	(+1.10 (-)0.46	36.3	40	6.5	4.6	2.5			
1300-51	51	54		2.15		4.5	1.5	2		55.2		37.3	41	6.5	4.7	2.5			
1300-52	52	55		2.15		4.5	1.5	2		56.2		37.9	41.6	6.7	4.7	2.5			
1300-55	55	58		2.15		4.5	1.5	2		59.2		40.7	44.4	6.8	5	2.5			
1300-56	56	59		2.15		4.5	1.5	2		60.2		41.7	45.4	6.8	5.1	2.5			
1300-57	57	60		2.15		4.5	1.5	2		62.2		42.7	46.4	6.8	5.1	2.5			
1300-58	58	61		2.15		4.5	1.5	2		62.2		43.5	47.2	6.9	5.2	2.5			
1300-59	59	-		-		-	-	-		-		-	-	-	-	-	-	-	-
1300-60	60	63		2.15		4.5	1.5	2		64.2		44.7	48.4	7.3	5.4	2.5			
1300-61	61	-		2.15		-	-	-		-		-	-	-	-	-	-	-	-
1300-62	62	65	2.15	4.5	1.5	2	66.2	46.7	50.4	7.3	5.5	2.5							
1300-63	63	66	2.15	4.5	1.5	2	67.2	47.7	51.4	7.3	5.5	2.5							
1300-64	64	-	2.65	4.5	1.5	2.5	68.2	48.7	52.4	7.3	5.2	2.5							
1300-65	65	68	2.65	4.5	1.5	2.5	69.2	49.0	52.8	7.6	5.8	3.0							
1300-67	67	70	2.65	4.5	1.5	2.5	72.5	50.8	54.6	7.7	6.0	3.0							
1300-68	68	71	2.65	4.5	1.5	2.5	72.5	51.6	55.4	7.8	6.1	3.0							

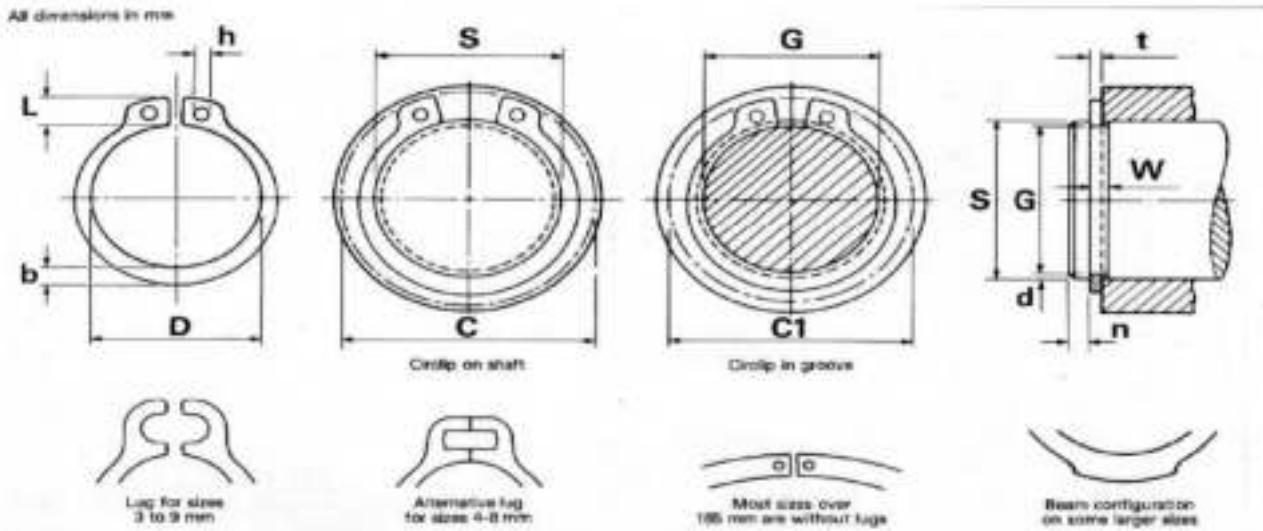
Stainless Steel Circlips - Internal



Stainless Steel Circlips - Internal

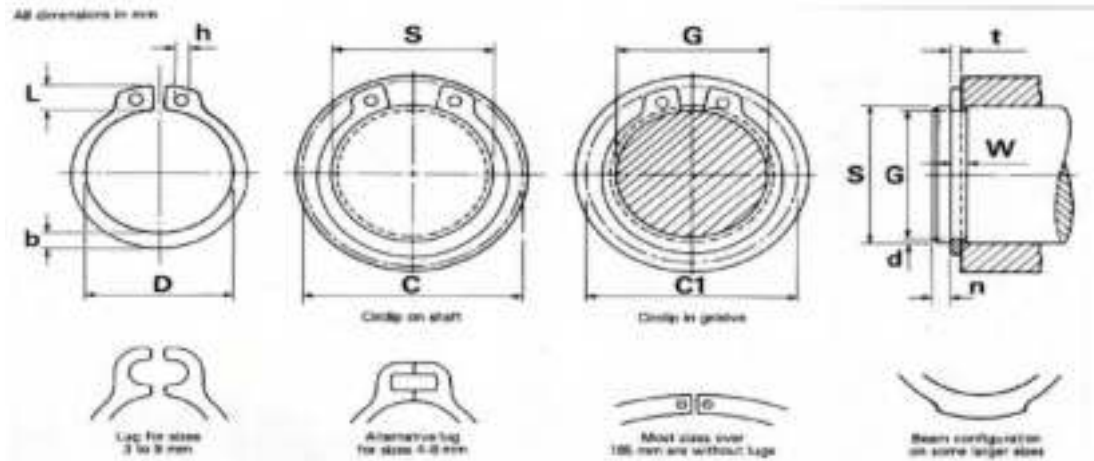
SIZE CODE	BORE		GROOVE (G)					CIRCLIP (F)								
	B	G	Tol.	W	Tol.	n (min.)	d~	t	Tol.	D	Tol.	C	C1	L (max)	b~	h (min)
1300-70	70	73	(+0.30 -0.00)	2.65	(+0.14 -0.00)	4.5	1.5	2.5	(+0.00 -0.07)	74.5	(+1.10 -0.46)	53.6	57.4	7.8	6.2	3.0
1300-72	72	75		2.65		4.5	1.5	2.5		76.5		55.6	59.4	7.8	6.4	3.0
1300-75	75	78		2.65		4.5	1.5	2.5		79.5		58.6	62.4	7.8	6.6	3.0
1300-80	80	83.5	(+0.35 -0.00)	2.65	(+0.18 -0.00)	5.3	1.8	2.5	(+0.00 -0.08)	82.5	(+1.30 -0.54)	62.1	66.5	8.5	7.0	3.0
1300-85	85	88.5		3.15		5.3	1.8	3		90.5		66.9	71.3	8.6	7.2	3.5
1300-90	90	93.5		3.15		5.3	1.8	3		95.5		71.9	76.3	8.6	7.6	3.5
1300-95	95	98.5		3.15		5.3	1.8	3		100.5		76.5	80.9	8.8	8.1	3.5
1300-100	100	103.5		3.15		5.3	1.8	3		105.5		80.6	85.1	9.2	8.4	3.5

Stainless Steel Circlips - External



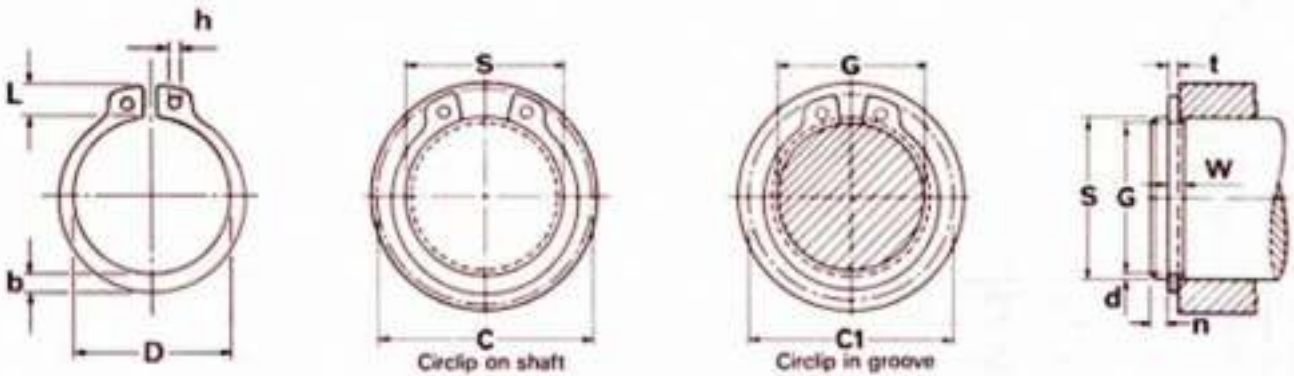
Stainless Steel Circlips - External																	
SIZE CODE	SHAFT		GROOVE (G)						CIRCLIP (F)								
	S	G	Tol.	W	Tol.	n (min.)	d~	t	Tol.	D	Tol.	C	C1	L (max)	b~	h (min)	
1400-4	4	3.8	(+) 0.00 (-) 0.048	0.5		0.3	0.1	0.4	(+) 0.00 (-) 0.05-	3.7		8.6	8.2	2.2	0.9	1	
1400-5	5	4.8		0.7		0.3	0.1	0.6		4.7		(+) 0.04 (-) 0.15	10.3	9.8	2.5	1.1	1
1400-6	6	5.7		0.8		0.5	0.15	0.7		5.6		11.7	11.1	2.7	1.3	1.2	
1400-7	7	6.7	(+) 0.00 (-) 0.06	0.9		0.5	0.15	0.8		6.5		13.5	12.9	3.1	1.4	1.2	
1400-8	8	7.6		0.9		0.6	0.2	0.8		7.4		(+) 0.06 (-) 0.18	14.7	14	3.2	1.5	1.2
1400-9	9	8.6		1.1		0.6	0.2	1		8.4		16	15.2	3.3	1.7	1.2	
1400-10	10	9.6	(+) 0.00 (-) 0.11	1.1		0.6	0.2	1		9.3		17	16.2	3.3	1.8	1.5	
1400-11	11	10.5		1.1		0.8	0.25	1		10.2		18	17.1	3.3	1.8	1.5	
1400-12	12	11.5		1.1		0.8	0.25	1		11		19	18.1	3.3	1.8	1.7	
1400-13	13	12.4	(+) 0.00 (-) 0.13	1.1		0.9	0.3	1		11.9		20.2	19.2	3.4	2	1.7	
1400-14	14	13.4		1.1		0.9	0.3	1		12.9		(+) 0.10 (-) 0.36	21.4	20.4	3.5	2.1	1.7
1400-15	15	14.3		1.1		1.1	0.35	1		13.8		22.5	21.5	3.6	2.2	1.7	
1400-16	16	15.2	(+) 0.00 (-) 0.21	1.1		1.2	0.4	1		14.7		23.8	22.6	3.7	2.2	1.7	
1400-17	17	16.2		1.1		1.2	0.4	1		15.7		25	23.8	3.8	2.3	1.7	
1400-18	18	17		1.3		1.5	0.5	1.2		16.5		26.2	24.8	3.9	2.4	2	
1400-19	19	18	(+) 0.00 (-) 0.13	1.3		1.5	0.5	1.2	(+) 0.00 (-) 0.06	17.5		27.2	25.8	3.9	2.5	2	
1400-20	20	19		1.3		1.5	0.5	1.2		18.5		28.4	27	4	2.6	2	
1400-21	21	20		1.3		1.5	0.5	1.2		19.5		29.6	28.2	4.1	2.7	2	
1400-22	22	21	(+) 0.00 (-) 0.21	1.3		1.5	0.5	1.2		20.5		30.8	29.4	4.2	2.8	2	
1400-23	23	22		1.3		1.5	0.5	1.2		21.5		32	30.6	4.3	2.9	2	
1400-24	24	22.9		1.3		1.7	0.55	1.2		22.2		33.2	31.7	4.4	3	2	
1400-25	25	23.9	(+) 0.00 (-) 0.21	1.3		1.7	0.55	1.2		23.2		34.2	32.7	4.4	3	2	
1400-26	26	24.9		1.3		1.7	0.55	1.2		24.2		(+) 0.21 (-) 0.42	35.5	33.9	4.5	3.1	2
1400-27	27	25.6		1.3		2.1	0.7	1.2		24.9		36.7	34.8	4.6	3.1	2	
1400-28	28	26.6		1.6		2.1	0.7	1.5		25.9		37.9	36	4.7	3.2	2	

Stainless Steel Circlips - External



Stainless Steel Circlips - External																	
SIZE CODE	SHAFT		GROOVE (G)						CIRCLIP (F)								
	S	G	Tol.	W	Tol.	n (min.)	d~	t	Tol.	D	Tol.	C	C1	L (max)	b~	h (min)	
1400-29	29	27.6	(+0.00 -0.21)	1.6	(+0.00 -0.25)	2.1	0.7	1.5	(+0.00 -0.06)	26.9	(+0.21 -0.42)	39.1	37.2	4.8	3.4	2	
1400-30	30	28.6		1.6		2.1	0.7	1.5		27.9		40.5	38.6	5	3.5	2	
1400-32	32	30.3	1.6	2.6		0.85	1.5	29.6		43	40.7	5.2	3.6	2.5			
1400-33	33	31.3	1.6	2.6		0.85	1.5	30.5		44	41.7	5.2	3.7	2.5			
1400-35	35	33	1.6	3		1	1.5	32.2		46.8	44.2	5.6	3.9	2.5			
1400-36	36	34	1.85	3		1	1.75	33.2		47.8	45.2	5.6	4	2.5			
1400-37	37	35	1.85	3		1	1.75	34.2		49	47	5.7	4.1	2.5			
1400-38	38	36	1.85	3		1	1.75	35.2		50.2	47.6	5.8	4.2	2.5			
1400-40	40	37.5	1.85	3.8		1.25	1.75	36.5		52.6	49.5	6	4.4	2.5			
1400-41	41	38.5	1.85	3.8		1.25	1.75	37.5		54	51.5	6.2	4.5	2.5			
1400-42	42	39.5	1.85	3.8	1.25	1.75	38.5	55.7	52.5	6.5	4.5	2.5					
1400-45	45	42.5	1.85	3.8	1.25	1.75	41.5	59.1	55.9	6.7	4.7	2.5					
1400-47	47	44.5	1.85	3.8	1.25	1.75	43.5	61.3	58.1	6.8	4.9	2.5					
1400-48	48	45.5	1.85	3.8	1.25	1.75	44.5	62.5	59.3	6.9	5	2.5					
1400-50	50	47	2.15	4.5	1.5	2	45.8	64.5	60.8	6.9	5.1	2.5					
1400-52	52	49	2.15	4.5	1.5	2	47.8	66.7	63	7	5.2	2.5					
1400-55	55	52	(+0.00 -0.30)	2.15	(+0.14 -0.00)	4.5	1.5	2	(+0.00 -0.07)	50.8	(+0.39 -0.90)	70.2	66.4	7.2	5.4	2.5	
1400-56	56	53		2.15		4.5	1.5	2		51.8		71.6	67.6	7.3	5.5	2.5	
1400-57	57	-		-		-	-	-		-		-	-	-	-	-	-
1400-58	58	55		2.15		4.5	1.5	2		53.8		73.6	68.6	7.3	5.5	2.5	
1400-60	60	75		2.15		4.5	1.5	2		55.8		75.6	71.8	7.4	5.8	2.5	
1400-61	61	-		2.15		-	-	-		-		-	-	-	-	-	-
1400-62	62	59		2.15		4.5	1.5	2		57.8		77.8	74	7.5	6.0	2.5	
1400-63	63	60		2.15		4.5	1.5	2		58.8		79.0	75.2	7.6	6.2	2.5	
1400-64	64	-		-		-	-	-		-		-	-	-	-	-	-
1400-65	65	62		2.65		4.5	1.5	2.5		60.8		81.4	77.6	7.8	6.3	3.0	
1400-67	67	64	2.65	4.5	1.5	2.5	62.5	83.6	79.8	7.9	6.4	3.0					
1400-68	68	65	2.65	4.5	1.5	2.5	63.5	84.4	81.0	8.0	6.5	3.0					
1400-70	70	67	2.65	4.5	1.5	2.5	65.5	87.0	83.2	8.1	6.6	3.0					
1400-72	72	69	2.65	4.5	1.5	2.5	67.5	89.2	85.4	8.2	6.8	3.0					
1400-75	75	72	2.65	4.5	1.5	2.5	70.5	92.7	88.8	8.4	7.0	3.0					
1400-80	80	76	2.65	5.3	1.75	2.5	74.5	98.1	93.7	8.6	7.4	3.0					
1400-85	85	81.5	3.15	5.3	1.75	3	79.5	103.3	98.9	8.7	7.8	3.5					
1400-90	90	86.5	(+0.00 -0.35)	3.15	(+0.18 -0.00)	5.3	1.75	3	(+0.00 -0.08)	84.5	(+0.54 -1.13)	108.5	104.0	8.8	8.2	3.5	
1400-95	95	91.5		3.15		5.3	1.75	3		89.5		114.8	111.0	9.4	8.6	3.5	
1400-100	100	96.5		3.15		5.3	1.75	3		94.5		120.2	116.0	9.6	9.0	3.5	

Heavy Duty Circlips - External



Circlips - Heavy Duty																			
SIZE CODE	SHAFT		GROOVE (G)					CIRCLIP (F)									Wt (kg/k)	Tc (N)	Tg (N)
	S	G	Tol.	W	Tol.	n	d	t	Tol.	D	Tol.	C	C1	L	b	h			
1460-12	12	11.5	+0.00 -0.01	1.6	+0.14 -0.00	0.7	0.25	1.5	+0.00 -0.06	11	+0.10 -0.36	19.3	8.3	3.4	1.8	1.7	0.75	17500	1130
1460-15	15	14.3		1.6		1.1	0.35	1.5		13.8		25.1	3.9	4.8	2	2	1.1	21900	2260
1460-18	18	17		1.6		1.5	0.5	1.5		16.5		28.7	27.2	5.1	2.7	2	1.56	26300	4070
1460-20	20	19	+0.00 -0.13	1.85		1.5	0.5	1.75	18.5	31.5	30	5.5	3	2	2.19	34100	4150		
1460-25	25	23.9	+0.00 -0.21	2.15		1.7	0.55	2	23.2	38.3	36.7	6.4	3.4	2	3.59	48700	6130		
1460-28	28	26.6		2.15		2.1	0.7	2	25.9	41.5	39.6	6.5	3.5	2	4.25	54500	8440		
1460-30	30	28.6		2.15		2.1	0.7	2	27.9	43.5	41.6	6.5	4.1	2	5.35	58400	9610		
1460-32	32	30.3	+0.00 -0.25	2.15		2.6	0.85	2	29.6	45.5	43.3	6.5	4.1	2.5	5.85	62300	10200		
1460-35	35	33		2.65		3	1	2.5	32.2	48.9	46.4	6.7	4.2	2.5	7.2	85200	13200		
1460-38	38	36		2.65		3	1	2.5	35.2	52.1	49.6	6.8	4.3	2.5	8.3	92500	15800		
1460-40	40	37.5	+0.00 -0.25	2.65	3.8	1.25	2.5	36.5	55	51.5	7	4.4	2.5	8.6	80900	18800			
1460-42	42	39.5		2.65	3.8	1.25	2.5	38.5	57.4	53.9	7.2	4.5	2.5	9.3	84900	19800			
1460-45	45	42.5		2.65	3.8	1.25	2.5	41.5	61	57.5	7.5	4.7	2.5	10.7	91000	21200			
1460-48	48	45.5	+0.00 -0.30	2.65	3.8	1.25	2.5	4.5	64.6	61.1	7.8	5	2.5	11.3	97100	22600			
1460-50	50	47		3.15	4.5	1.5	3	45.8	67	63	8	5.1	2.5	15.3	121000	28300			
1460-55	55	52		3.15	4.5	1.5	3	50.8	73	69	8.5	5.4	2.5	17.1	133000	31100			
1460-58	58	55	+0.00 -0.30	3.15	4.5	1.5	3	53.8	76.6	72.6	8.8	5.6	2.5	18.9	141000	32800			
1460-60	60	57		3.15	4.5	1.5	3	55.8	79	75	9	5.8	2.5	19.4	146000	33900			
1460-65	65	62		4.15	4.5	1.5	4	60.8	84.6	80.6	9.3	6.3	3	29.1	210000	36800			
1460-70	70	67	+0.00 -0.35	4.15	4.5	1.5	4	65.5	90	86	9.5	6.6	3	35.3	226000	39600			
1460-75	75	72		4.15	4.5	1.5	4	70.5	95.4	91.4	9.7	7	3	39.3	243000	424000			
1460-80	80	76.5		4.15	5.3	1.75	4	74.5	100.6	96.1	9.8	7.4	3	43.7	259000	52800			
1460-85	85	81.5	+0.00 -0.35	4.15	5.3	1.75	4	79.5	106	101.5	10	7.8	3.5	48.5	275000	56100			
1460-90	90	86.5		4.15	5.3	1.75	4	84.5	111.4	106.9	10.2	8.2	3.5	59.4	291000	59400			
1460-95	95	91.5		4.15	5.3	1.75	4	89.5	116.6	112.1	10.3	8.6	3.5	61.2	307000	62700			
1460-100	100	96.5	4.15	5.3	1.75	4	94.5	122	117.5	10.5	9	3.5	71.6	324000	66000				

Key Steel

Zinc Plated and Stainless Steel

Finer Power Transmissions carries a wide range of Key Steel in both Metric and Imperial Sizes. Individual pieces are clearly marked for quick identification. Specifically manufactured from steel designed for keyways, it can be used in situations where a shaft has a keyed drive running of it. Finer stocks both Zinc Coated and Stainless Steel Key Steel.

IMPERIAL (Zinc Coated)

Size	To Suit Shafts Between		App. kg
	Min	Max	
1/8 x 1/8	1/4	1/2	0.02
1/8 x 1/4	-	-	0.05
1/8 x 3/16	-	-	0.04
5/32 x 5/32	-	-	0.04
3/16 x 3/16	1/2	3/4	0.05
3/16 x 1/4	-	-	0.07
1/4 x 1/4	3/4	1	0.1
1/4 x 5/16	-	-	0.12
1/4 x 1/2	-	-	0.19
1/4 x 3/8	1 1/4	1 1/2	0.14
5/16 x 5/16	1	1 1/4	0.15
5/16 x 3/8	-	-	0.18
5/16 x 7/16	1 1/2	1 3/4	0.21
5/16 x 1/2	1 3/4	2	0.24
3/8 x 3/8	1 1/4	1 1/2	0.22
3/8 x 1/2	-	-	0.29
3/8 x 7/16	-	-	0.3
7/16 x 7/16	1 1/2	1 3/4	0.3
7/16 x 1/2	-	-	0.34
7/16 x 5/8	2	2 1/2	0.42
1/2 x 1/2	1 3/4	2	0.39
1/2 x 5/8	-	-	0.48
1/2 x 3/4	-	-	0.58
9/16 x 5/8	-	-	0.55
9/16 x 9/16	2	2 1/4	0.49
5/8 x 5/8	2	2 1/2	0.6
5/8 x 3/4	2 1/2	3	0.72
5/8 x 7/8	3	3 1/2	0.84
3/4 x 3/4	2 1/2	3	0.87
3/4 x 1	3 1/2	4	1.16
7/8 x 7/8	3	3 1/2	1.18
7/8 x 1 1/4	4	5	1.69
1 x 1	-	-	1
1 1/8 x 1 1/8	4	4 1/2	1.95
1 x 1 1/2	5	6	2.32
1 1/4 x 1 1/4	4	5	2.41
1 1/2 x 1 1/2	5	6	3.47
1 3/4 x 1 3/4	6 1/2	7	4.73
2 x 2	-	-	6.17

METRIC (Zinc Coated)

Size	To Suit Shafts Between		App. kg
	Min	Max	
3 x 3mm	-	-	0.03
4 x 4mm	10	12	0.04
5 x 5mm	12	17	0.06
6 x 6mm	17	22	0.08
6 x 8mm	-	-	0.12
6 x 10mm	-	-	0.14
7 x 7mm	-	-	0.13
7 x 8mm	22	30	0.13
8 x 8mm	-	-	0.15
8 x 10mm	30	38	0.19
8 x 12mm	38	44	0.23
9 x 14mm	44	50	0.3
10 x 10mm	-	-	0.24
10 x 12mm	-	-	0.28
10 x 16mm	50	58	0.38
11 x 18mm	58	65	0.47
12 x 12mm	-	-	0.34
12 x 20mm	65	75	0.57
14 x 14mm	-	-	0.46
14 x 22mm	75	85	0.73
14 x 25mm	85	95	0.82
16 x 16mm	-	-	0.6
16 x 28mm	95	110	1.06
18 x 18mm	-	-	0.76
18 x 32mm	110	130	1.36
20 x 20mm	-	-	0.94
20 x 36mm	130	150	1.7
22 x 22mm	-	-	1.14
22 x 40mm	150	170	2.07
25 x 25mm	-	-	1.5



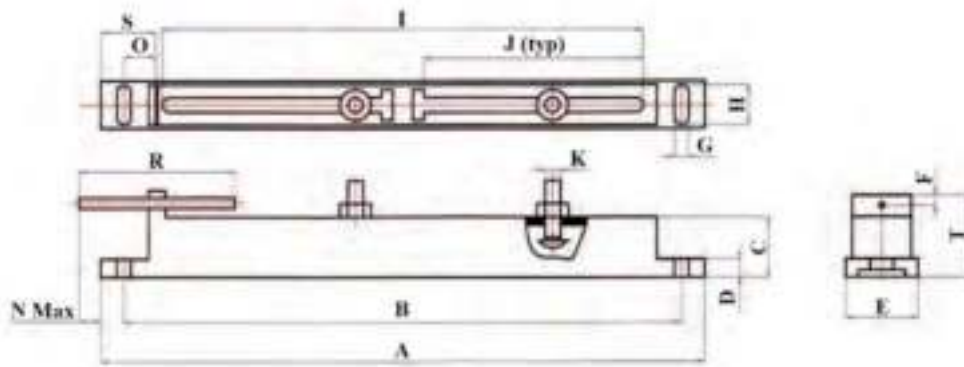
IMPERIAL STAINLESS

Size	To Suit Shafts Between		App. Kg
	Min	Max	
1/8x1/8SS	1/4	1/2	0.03
3/16x3/16SS	1/2	3/4	0.05
1/4x1/4SS	3/4	1	0.10
5/16x5/16SS	1	1 1/4	0.15
3/8x3/8SS	1 1/4	1 1/2	0.22
7/16x7/16SS	1 1/2	1 3/4	0.30
1/2x1/2SS	1 3/4	2	0.39
9/16x9/16SS	2	2 1/4	0.49
5/8x5/8SS	2	2 1/2	0.60
3/4x3/4SS	2 1/2	3	0.87
7/8x7/8SS	3	3 1/2	1.19
1x1SS	-	-	1.55

METRIC STAINLESS

Size	To Suit Shafts Between		App. Kg
	Min	Max	
3 x 3MMSS	-	-	0.02
4 x 4MMSS	10	12	0.04
5 x 5MMSS	12	17	0.06
6 x 6MMSS	17	22	0.08
7 x 8MMSS	22	30	0.12
8 x 8MMSS	-	-	0.15
8 x 10MMSS	30	38	0.19
8 x 12MMSS	38	44	0.23
9 x 14MMSS	44	50	0.30
10 x 10MMSS	-	-	0.24
10 x 16MMSS	50	58	0.38
11 x 18MMSS	58	65	0.48
12x12MMSS	-	-	0.35
12x20MMSS	65	75	0.58
14x14MMSS	-	-	0.47
16 x16MMSS	-	-	0.61
20 x 20MMSS	-	-	0.96

NB. All stock in 12 inch length



Frame Size	MR08090	MR100132	MR160180	MR220225	MR250280	MR315355
A	380	475	567	790	945	1220
B	328	425	515	780	870	1115
C	30	37	48	60	70	125
D	15	19	19	32	38	40
E	48	70	72	92	105	122
F	10	10	11	18	16	22
G	15	14	18	20	21	30
H	25	35	35	20	21	30
I	245	340	380	610	725	920
J	95	150	162	285	305	420
K	8	10	12	16	20	24
M	75	135	115	200	240	285
N	25	26	28	30	35	50
O	40	42	57	60	70	105
R	145	200	200	290	380	450
S	65	68	85	90	105	155
T	50	62	70	92	110	170
Weight KGS	3	8.5	10	22	40	105

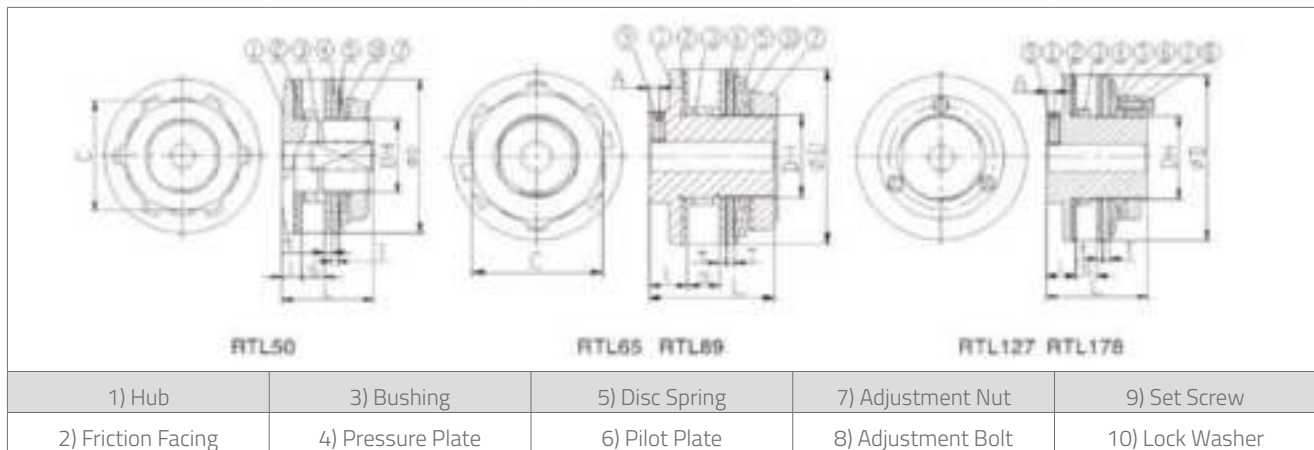


The Finer Torque Limiter has been designed to protect drive systems from unnecessary overload. When too much torque is transmitted through a drive, the Torque Limiter automatically slips on its shaft when a predetermined torque level is reached.

This device is suitable in situations where there is excessive and unpredictable shock loads, overloads or machine jams. When the problem in the system is overcome or removed, the Torque Limiter automatically re-engages, unlike other devices such as those with shear pin mechanisms, which have to be manually reset.

Torque Limiters not only prevent damage to drive systems but also eliminates unnecessary downtime due to system resets.

The Torque Limiter utilizes spring loaded friction surfaces, the slip torque is preset by the adjustment of the spring force which is as simple tightening or loosening the appropriate nut or bolt.



Size	Torque Range (kgf-m)	Plain Bore	Max Bore	Bush Length	OD of Bush	Bore for Centre Member	D	DH	L	I	T	t	S (Max)	A	C	Adjust. Nut	Adjust. Bolt	Set Screw	(kg)
RTL50-1	0.3 ~ 1.0	8	14	3.8	30	30	50	24	29	6.5	1.6	2.5	7	-	36	M24 P1.0	-	-	0.248
RTL50-2	0.7 ~ 2.0			6															-0.020 -0.041
RTL65-1	0.7 ~ 2.8	10	22	6	41	41	65	35	48	16	4	3.2	9	4	50	M35 P1.5	-	M5	0.721
RTL65-2	1.4 ~ 5.5			8															-0.025 -0.050
RTL89-1	2.0 ~ 7.6	17	25	6	49	49	89	42	62	19	4	3.2	16	5	65	M42 P1.5	-	M6	2.417
RTL89-2	3.5 ~ 15.2			8 9.5 14.5															-0.025 -0.050
RTL127-1	4.8 ~ 21.4	20	42	6	74	74	127	65	76	22	6	3.2	16	6	-	M65 P1.5	M8 P1.0 3pcs	M8	3.692
RTL127-2	9.0 ~ 42.9			8 9.5 14.5															-0.030 -0.060
RTL178-1	11.8 ~ 58.1	30	64	8	105	105	178	95	98	24	7	3.2	29	6.5	-	M95 P1.5	M10 P1.25 3pcs	M10	9.033
RTL178-2	22.8 ~ 111			8 9.5 14.5 17 22															-0.036 -0.071

Selection

Determine the required slip torque from the loading conditions or from the design strength of the machine. If the loading conditions of the machine are unknown, set the required slip torque of the torque limiter to 1.5~2 times the torque that the motor produces on the shaft where the torque limiter is mounted.

Select a Torque Limiter that has enough torque range and bore range.

Determine the proper bushing length from the thickness of the centre member to be inserted between the friction facings. Always choose the largest bushing which does not exceed the width of the centre member, shown as S Max in the dimension table.

Centre Member

The centre member should be machined on its rubbing surface to obtain the rated torque and be flat, parallel and square with the bore and free from rust, scale and oil. Surface finish recommended is Ra1.6. If the centre member is not in accordance with these specifications, the slip torque will be erratic.

The Max. Bore of the centre member is listed below. Also shown is the Min. number of sprocket teeth to be used and the bushing length.

Size	Bore of Centre Member (mm)	9.525-06B		12.7-08B		15.875-10B		19.05-12B		25.4-16B		31.75-20B		38.1-24B	
		Spr. Min. Teeth	Bush Length (mm)	Spr. Min. Teeth	Bush Length (mm)	Spr. Min. Teeth	Bush Length (mm)	Spr. Min. Teeth	Bush Length (mm)	Spr. Min. Teeth	Bush Length (mm)	Spr. Min. Teeth	Bush Length (mm)	Spr. Min. Teeth	Bush Length (mm)
RTL50	30	20	3.8	16	6	-	-	-	-	-	-	-	-	-	-
RTL65	41	-	-	20	6	17	8	-	-	-	-	-	-	-	-
RTL89	49	-	-	26	6	21	8	18	9.5	15	14.5	-	-	-	-
RTL127	74	-	-	35	6	29	8	25	9.5	19	14.5	-	-	-	-
RTL178	105	-	-	-	-	39	8	33	9.5	26	14.5	21	17	18	22

Torque Settings

The torque setting of the Torque Limiter is manipulated by tightening or loosening the adjustment nut and/or the adjustment bolts. RTL 50 – RTL 89 use an adjustment nut, RTL 127 – RTL 178 use adjustment bolts.

The torque setting is adjusted after the Torque Limiter is mounted on the shaft, once the Torque Limiter is mounted:

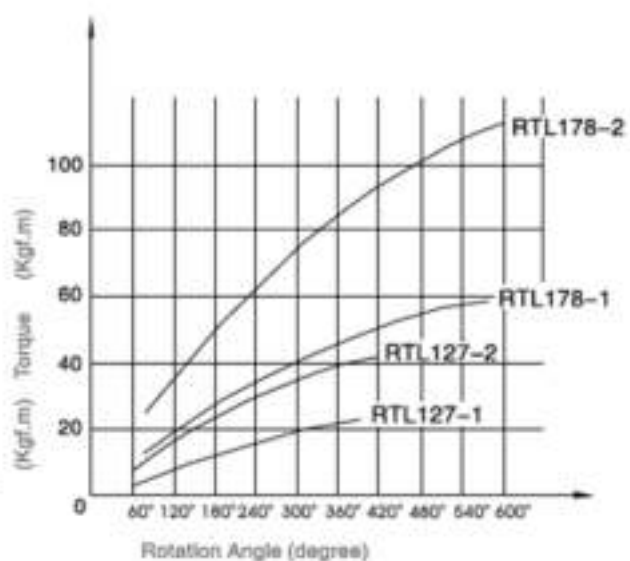
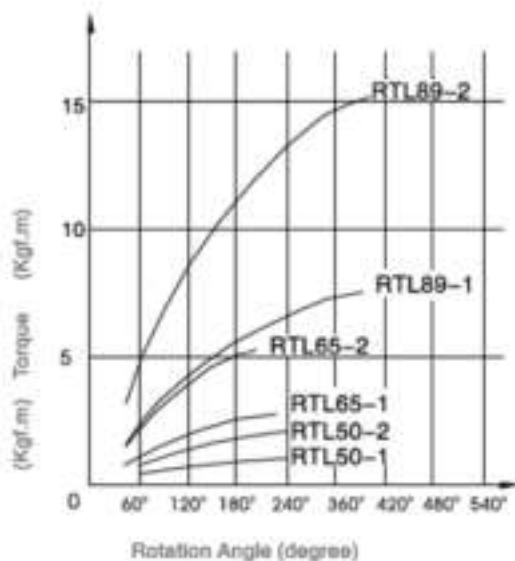
RTL 50 – RTL 89

First, rotate the adjustment nut tightly by hand so that the disk spring fits the plate. Then tentatively tighten the nut by about 60 degrees with a wrench.

RTL 127 – RTL 178

First, rotate the nut for fixing the disk spring to the plate, and then tighten each adjustment bolt by about 60 degrees. Then, if the Torque Limiter slips under normal loading conditions, tighten the bolts gradually until the Torque Limiter stops slipping. Always tighten or loosen the bolts evenly. You may have to make several adjustments to find the appropriate setting for the machine. For your guidance the below chart shows the relation between the effective rotated angle and preset torque.

For precise torque setting, run-in of the Torque Limiter is recommended, eg: 500 revolution at 50-60rpm with a rotated angle of 45 degrees of the adjustment bolts.



Grab Kit



GRAB KITS

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Nut & Bolt Assortment - Imperial Grab Kit.....	9.3.16

CIRCLIP External Grab Kit (6mm to 50mm) - 360 Pieces

Parts	Qty	Parts	Qty
6mm Shaft	20	20mm Shaft	20
7mm Shaft	20	25mm Shaft	20
8mm Shaft	20	30mm Shaft	20
9mm Shaft	20	32mm Shaft	20
10mm Shaft	20	35mm Shaft	20
12mm Shaft	20	38 mm Shaft	20
13mm Shaft	20	40mm Shaft	10
15mm Shaft	20	42 mm Shaft	10
17mm Shaft	20	45 mm Shaft	10
19mm Shaft	20	50 mm shaft	10



Part # FD-2015CE

CIRCLIP Internal Grab Kit (10mm to 52mm) - 360 Pieces

Parts	Qty	Parts	Qty
10mm Bore	20	26mm Bore	20
13mm Bore	20	28mm Bore	20
14mm Bore	20	30mm Bore	20
15mm Bore	20	32mm Bore	20
16mm Bore	20	35mm Bore	20
19mm Bore	20	40mm Bore	20
20mm Bore	20	42mm Bore	10
22mm Bore	20	45mm Bore	10
24mm Bore	20	47mm Bore	10
25mm Bore	20	52mm Bore	10



Part # FD-2015CI

Clevis & Hitch Pin Grab Kit (5/16x2 to 1-3/4x0.125) - 56 Pieces

Parts	Qty
5/16x2 Inch Tiller Tine Pin	5
0.080 Wire x 1-3/16 Inch Hair Pin	5
3/8x2 Inch Tiller Tine Pin	15
0.094 Wire x 1-5/8 Inch Hair Pin	20
7/16x2-1/2 Inch Tiller Tine Pin	5
1/2x2 Inch Tiller Tine Pin	3
0.125 Wire x 1-3/4 Inch Hair Pin	3



Part # FD-6075

Cotter Pin / Split Pin Grab Kit (1/16x1 Inch to 5/32x2-1/2 Inch) - 280 Pieces

Parts	Qty
1/16x1 Inch	75
3/32x1.1/2 Inch	50
1/8x2 Inch	25
3/32x1 Inch	75
1/8x1.1/4 Inch	40
5/32x2.1/2 Inch	15



Part # FD-6117

Drill Bit Inserts Grab Kit (PZ1 to T30) - 114 Pieces

Parts	Qty	Parts	Qty
PZ1	6	T10	6
PZ2	6	T20	6
PZ3	6	P3/16 Inch	6
PH0	6	P1/4 Inch	6
PH1	6	H5/32 Inch	6
PH2	6	H1/4 Inch	6
P1/8 Inch	6	T25	6
P5/32 Inch	6	T30	6
H5/64 Inch	6	Drivers	6
H1/8 Inch	6		



Part # FD-6149

E Clip Grab Kit (1.5mm to 22mm) - 300 Pieces

Parts	Qty
15mm	20
19mm	20
22mm	20
1.5mm	30
3mm	30
5mm	40
12mm	40
6mm	50
10mm	50



Part # FD-6005

Fuses - European Auto Fuse Grab Kit (6AMP to 30AMP) - 120 Pieces

Parts	Qty
6 Amp	20
8 Amp	20
16 Amp	20
20 Amp	20
25 Amp	20
30 Amp	20



Part # FD-6078

Fuses - Glass Fuse Grab Kit (10mm to 52mm) - 120 Pieces

Parts	Qty
5 Amp	20
8 Amp	20
16 Amp	20
20 Amp	20
25 Amp	20
30 Amp	20



Part # FD-6073

Fuses - Car Fuse Grab Kit (5AMP to 30AMP) - 120 Pieces

Parts	Qty
5 Amp ORANGE	20
10 Amp RED	20
15 Amp BLUE	20
20 Amp YELLOW	20
25 Amp CLEAR	20
30 Amp GREEN	20



Part # FD-6037

Fuses - Mini Car Fuse Grab Kit (5AMP to 30AMP) - 120 Pieces

Parts	Qty
5 Amp ORANGE	20
10 Amp RED	20
15 Amp BLUE	20
20 Amp YELLOW	20
25 Amp CLEAR	20
30 Amp GREEN	20



Part # FD-6059

Grease Nipples - Imperial Grab Kit (1/8-27 to 1/4-28) - 110 Pieces

Parts	Qty
1/4-28	30
1/4-28 45 Degrees	15
1/4-28 90 Degrees	15
1/8-27 90 Degrees	15
1/8-27 45 Degrees	15
1/8-27	20



Part # FD-6029

Grease Nipples - Metric Grab Kit (M6x1 to M10x1.5) - 110 Pieces

Parts	Qty
M6x1	60
M6x1 90 Degrees	5
M6x1 45 Degrees	5
M8x1.25 45 Degrees	5
M8x1.25	10
M8x1.25 90 Degrees	5
M10x1.5	10
M10x1.5 45 Degrees	5
M10x1.5 90 Degrees	5



Part # FD-6030

Grommet Grab Kit (1/8x1/4 Inch to 1 Inch Open & Closed) - 125 Pieces

Parts	Qty	Parts	Qty
1/8"x1/4" Open	15	5/8"x31/32" Open	3
7/32"x5/16" Open	10	3/4"x15/16 Open	2
9/32"x1/2" Open	7	9/32" Closed	20
5/16"x9/16" Open	3	3/8" Closed	20
3/8"x15/32" Open	6	1/2" Closed	10
3/8"x1/2" Open	5	5/8" Closed	5
3/8"x13/16" Open	3	3/4" Closed	4
7/16"x3/4" Open	4	7/8" Closed	3
1/2"x19/32" Open	3	1" Closed	2



Part # FD-6001

Grub Screw - Imperial (5/32x3/16 to 3/8x1/2) - 450 Pieces

Parts	Qty	Parts	Qty
5/32"x 3/16" Long-32 Thread	50	3/8"x 3/8" Long-24 Thread	20
5/16"x 3/8" Long-18 Thread	40	5/16"x 3/8" Long-24 Thread	40
3/8"x 3/8" Long-16 Thread	20	5/16"x1/2" Long-18 Thread	40
1/8"x 3/16" Long-40 Thread	50	3/16"x1/4" Long-24 Thread	50
1/4"x 1/4" Long-20 Thread	40	1/4"x1/4" Long-28 Thread	40
3/8"x 1/2" Long-16 Thread	20	1/4"x 3/8" Long-20 Thread	40



Part # FD-6159G

Grub Screw - Metric (6AMP to 30AMP) - 450 Pieces

Parts	Qty	Parts	Qty
3x 5mm Long	50	8 x 10mm Long Fine	40
4x 5mm Long	50	8x 10mm Long	40
5x 6mm Long	50	8x 12mm Long	40
6x 6mm Long Fine	40	10 x 10mm Long Fine	20
6x 6mm Long	40	10x 10mm Long	20
6x 10mm Long	40	10x 12mm Long	20



Part # FD-6158G

Hitch Pin Grab Kit (2.4x31mm to 4x75mm) - 150 Pieces

Parts	Qty
2.4x31mm	42
2x33mm	30
2x40mm	25
2.8x42mm	25
3.5x45mm	20
4x75mm	8



Part # FD-6011M

Lamp (Auto) Bulbs Grab Kit 17 Pieces

Parts	Qty
53 x 3, 57 x 2, 67 x 2, 194 x 2, 1141 x 1, 1003 x 1, 1073 x 1, 1034 x 1, 1157 x 2, 2057 x 2	17



Part # FD-6159

Hose Clamp Grab Kit (16mm to 40mm) - 26 Pieces

Parts	Qty
16mm	8
22mm	6
25mm	4
28mm	2
35mm	2
40mm	4



Part # FD-6080

Machinery Key - Imperial Grab Kit (1/4x1/4x3/4 to 1/2x1/2x1/2) - 60 Pieces

Parts	Qty	Parts	Qty
1/4"x1/4"x3/4"	5	1/8"x1/8"x3/4"	4
1/8"x1/8"x1"	4	5/16"x5/16"x1-1/4"	5
5/16"x5/16"x1-1/2"	5	3/8"x3/8"x1-1/4"	5
3/8"x3/8"x1-1/2"	5	1/2"x1/2"x1-1/2"	2
3/16"x3/16"x3/4"	5	3/16"x3/16"x1"	5
3/16"x3/16"x1-1/4"	5	1/4"x1/4"x1-1/4"	5
1/4"x1/4"x1-1/2"	5		



Part # FD-6028S

Machinery Key - Metric Grab Kit (3x20mm 6x40mm) - 60 Pieces

Parts	Qty	Parts	Qty
3x20mm	4	6x40mm	5
3x25mm	4	8x30mm	5
5x20mm	5	8x40mm	5
5x25mm	5	10x30mm	5
5x30mm	5	10x40mm	5
6x20mm	5	12x40mm	2
6x30mm	5		



Part # FD-6028M

O-Ring - Metric Grab Kit (3mm to 44mm) - 386 Pieces

Part	ID (mm)	OD (mm)	Section (mm)	Qty	Part	ID (mm)	OD (mm)	Section (mm)	Qty
R-1	3	7	2	16	R-16	20	26	3.0	12
R-2	4	8	2	16	R-17	22	28	3.0	12
R-3	5	9	2	16	R-18	24	30	3.0	12
R-4	6	10	2	16	R-19	25	31	3.0	12
R-5	7	11	2	16	R-20	27	33	3.0	12
R-6	8	12	2	16	R-21	28	34	3.0	12
R-7	10	14	2	16	R-22	30	36	3.0	12
R-8	10	15	2.5	13	R-23	32	38	3.0	12
R-9	11	16	2.5	13	R-24	33	39	3.0	12
R-10	12	17	2.5	13	R-25	35	41	3.0	12
R-11	14	19	2.5	13	R-26	36	42	3.0	12
R-12	16	21	2.5	13	R-27	38	44	3.0	12
R-13	17	22	2.5	13	R-28	38	46	4.0	9
R-14	19	24	2.5	13	R-29	41	49	4.0	9
R-15	19	25	3.0	12	R-30	44	52	4.0	9



Part # FD-2001

O-Ring - Imperial Grab Kit (5/32x3/16 to 3/8x1/2) - 450 Pieces

Part	ID (in)	OD (in)	Section (in)	Qty	Part	ID (in)	OD (in)	Section (in)	Qty
BS006	1/8	1/4	1/16	22	BS211	13/16	11/16	1/8	10
BS007	5/32	9/32	1/16	22	BS212	7/8	1-1/8	1/8	10
BS008	3/16	5/16	1/16	20	BS213	15/16	1-3/16	1/8	10
BS009	7/32	11/32	1/16	20	BS214	1	1-1/4	1/8	10
BS010	1/4	3/8	1/16	18	BS215	1-1/16	1-5/16	1/8	10
BS011	5/16	7/16	1/16	19	BS216	1-1/8	1-3/8	1/8	10
BS012	3/8	1/2	1/16	19	BS217	1-3/16	1-7/16	1/8	10
BS110	3/8	9/16	3/32	13	BS218	1-1/4	1-1/2	1/8	10
BS111	7/16	5/8	3/32	13	BS219	1-5/16	19/16	1/8	10
BS112	1/2	11/16	3/32	13	BS220	1-3/8	15/8	1/8	10
BS113	9/16	3/4	3/32	13	BS221	1-7/16	1-11/16	1/8	10
BS114	5/8	13/16	3/32	13	BS222	1-1/2	13/4	1/8	10
BS115	11/16	7/8	3/32	13	BS325	1-1/2	17/8	3/16	7
BS116	3/4	15/16	3/32	13	BS326	1-5/8	2	3/16	7
BS210	3/4	1	1/8	10	BS327	1-3/4	2-1/8	3/16	7

Rivet Grab Kit

(1/8x1/4 to 1/8x5/8) - 500 Pieces

Parts	Qty
1/8"x1/4"	125
1/8"x5/16"	125
1/8"x3/8"	125
1/8"x5/8"	125



Part # FD-6046

Roll Pin - Metric Grab Kit

(1.5x5mm to 10x50mm) - 315 Pieces

Parts	Qty	Parts	Qty
1.5x20mm	10	5.5x16mm	10
1.5x5mm	10	5.5x30mm	10
1.5x8mm	10	5.5x45mm	10
2.5x16mm	10	5x16mm	15
2.5x25mm	10	5x25mm	15
2.5x30mm	10	5x30mm	15
2x12mm	10	6x16mm	10
2x25mm	10	6x30mm	10
2x6mm	10	6x45mm	10
3x16mm	15	8x20mm	10
3x25mm	15	8x40mm	10
3x30mm	15	8x50mm	10
4x16mm	10	10x20mm	5
4x25mm	10	10x40mm	5
4x40mm	10	10x50mm	5



Part # FD-6067

Spring Grab Kit

(4x79.5mm to 8.5x36.5mm Ext / 5.5x38mm to 9.5x16mm) - 200 Pieces

Parts	Type	Qty	Parts	Type	Qty
5.5x38mm	Compression	10	4x79.5mm	Extension	12
5.5x17mm	Compression	10	5x20.5mm	Extension	10
6.5x10mm	Compression	10	5x25.5mm	Extension	10
7x12.5mm	Compression	10	6.5x22mm	Extension	10
7x19mm	Compression	10	7x38mm	Extension	18
9.5x19mm	Compression	12	7x51mm	Extension	12
9x35mm	Compression	8	8x28.5mm	Extension	8
9.5x16mm	Compression	6	8x31.5mm	Extension	10
First Number = Outside Diameter Second Number = Length			8x44.5mm	Extension	12
			8.5x47mm	Extension	12
			8.5x36.5mm	Extension	10



Part # FD-6006

Large Cotter Pin Assortment Grab Kit (1/8 x 2 - 5/16 x 2-1/2) - 144 Pieces

Parts	Qty
1/8x2 Inch	50
5/32x2-1/2 Inch	30
3/16x3 Inch	20
1/4x2 Inch	20
1/4x3 Inch	16
5/16x2-1/2 Inch	8



Part # FD-6007

Washers - Copper Washer Grab Kit (5x10x1 to 17.5x24x2) - 150 Pieces

Parts	Qty	Parts	Qty
5x10x1mm	10	12x20x1.5mm	10
6x10x1mm	10	12.5x20x1.5mm	10
7x10x1mm	10	14x20x1.5mm	10
8x12x1mm	10	15x20x2mm	10
10x16x1mm	10	16x22x2mm	10
10.5x17x1.5mm	10	16.5x24x2mm	10
11x17x1.5mm	10	17.5x24x2mm	10
14x18x1mm	10		



Part # FD-6043

Washers - Sealing Washer Grab Kit (3/8x10mm to 3/4-16x24mm) - 141 Pieces

Parts	Type	Qty	Parts	Type	Qty
1/2x16mm	Rubber/Gummi	10	3/8x8mm	Fiber	10
3/4-15x24mm	Rubber/Gummi	10	21x17mm	Fiber	10
1/2x10mm	Rubber/Gummi	5	3/8	Fiber	10
3/8x8mm	Rubber/Gummi	5	1/2	Fiber	10
3/4-11x24x2mm	Rubber/Gummi	10	1-1/2.27x38mm	Klingerith	3
3/8x10mm	Rubber/Gummi	5	3/4 16x24mm	Klingerith	10
1/2x17mm	Rubber/Gummi	10	1	Fiber	5
1/2.9x19mm	Rubber/Gummi	5	1-1/4 .30x39mm	Klingerith	3
3/4	Fiber	10	1/2 12x18mm	Klingerith	10



Part # FD-6044

Wire Terminal Grab Kit (10ga to 18ga) - 360 Pieces

Parts	Qty	Parts	Qty
22-18ga butt connector	30	16-14 butt connector	30
22-18ga butt connector	10	16-14spade 2-5	30
22-18ga m.disconnect	10	16-14ga m.disconnect	25
22-18ga f.disconnect	10	16-14ga f.disconnect	25
16-14ga bullet. m	25	12-10ga ring 5.5-5	20
16-14ga bullet. f	10	12-10ga ring 1/4 5/5-6	15
16-14ga ring 2-5	30	12-10ga ring 3/8 5.5-10	15
16-14ga ring 1/4 2-6	20	12-10ga butt connector	15
16-14ga ring 3/8 2-10	20	12-10ga spade 5.5-5	20



Part # FD-6052

Washers - Lock And Flat Washer Grab Kit (3mm to 10mm) - 350 Pieces

Parts	Type	Qty	Parts	Type	Qty
#3 Washer	Lock Washer	50	#3 Washer	Flat Washer	50
#4 Washer	Lock Washer	40	#4 Washer	Flat Washer	40
#5 Washer	Lock Washer	30	#5 Washer	Flat Washer	30
#6 Washer	Lock Washer	25	#6 Washer	Flat Washer	25
#8 Washer	Lock Washer	15	#7 Washer	Flat Washer	15
#10 Washer	Lock Washer	15	#8 Washer	Flat Washer	15



Part # FD-6068

Wing Nut Grab Kit (M5x0.8mm to M8x1mm) - 150 Pieces

Parts	Qty
M5x0.8mm	60
M6x1mm	50
M8x1.25mm	40



Part # FD-6012M

Woodruff Key Metric Grab Kit (3x5x13mm to 9x22mm) - 80 Pieces

Parts	Qty
3x5x13mm	10
3x6.5x16mm	10
4x7x19mm	10
4x5x13mm	10
4x6.5x16mm	10
5x7.5x19mm	10
6x9x22mm	10
9x22mm	10



Part # FD-6049

Nut & Bolt Assortment - Metric Grab Kit 420 Pieces

Parts	Qty	Parts	Qty
3x16 Machine Screws	20	M4 Washer	50
4x16 Machine Screws	20	M5 Washer	50
4x25 Machine Screws	20	M6 Washer	25
5x20 Machine Screws	20	M3 Hex Nut	25
5x25 Machine Screws	20	M4 Hex Nut	50
6x20 Machine Screws	20	M5 Hex Nut	50



Part # FD-6084

Nut & Bolt Assortment - Imperial Grab Kit 420 Pieces

Parts	Qty	Parts	Qty
6x5/8 Machine Screws	20	Washer 1/4"	25
1/4x3/4 Machine Screws	20	Washer #8	50
8x5/8 Machine Screws	20	Washer #10	50
8x1 Machine Screws	20	Hex Nut #6	25
10x3/4 Machine Screws	20	Hex Nut 1/4"	25
10x1 Machine Screws	20	Hex Nut #8	50
Washer #6	25	Hex Nut #10	50



Part # FD-6085





AG FLEX HYDRAULIC HOSE

1 Wire Braid Hose - EN853 1SN	9.4.5
2 Wire Braid Hose - EN853 2SN	9.4.5

Finer Power Transmissions stocks a range of Ag Flex 1 wire and 2 wire braided hydraulic hoses. It is generally suitable for medium to high pressure hydraulic lines, suitable for petroleum based hydraulic fluids, synthetic esters and biogradable hydraulic fluids.

1 Wire Braid Hose - EN853 1SN



Part No.	Hose Size		Braid Diameter (mm)	Hose OD (mm)	Reel Length (M)
	DIN	IMP			
R1AT1/4-1SN06	6	1/4	10.8-11.4	12.7-13.5	100
R1AT3/8-1SN10	10	3/8	14.5-15.1	16.7-17.5	100
R1AT1/2-1SN12	12	1/2	17.7-18.3	19.8-20.6	100
R1AT5/8-1SN16	16	5/8			
R1AT3/4-1SN20	20	3/4	24.6-25.4	26.9-27.7	50
R1AT1-1SN25	25	1	32.1-32.9	34.6-35.4	

2 Wire Braid Hose - EN853 2SN



Part No.	Hose Size		Braid Diameter (mm)	Hose OD (mm)	Reel Length (M)
	DIN	IMP			
R2AT1/4-2SN06	6	1/4	12.5-13.1	14.4-15.2	100
R2AT3/8-2SN10	10	3/8	16.2-16.8	18.3-19.1	100
R2AT1/2-2SN12	12	1/2	19.4-20.0	19.8-20.6	100
R2AT5/8-2SN16	16	5/8			
R2AT3/4-2SN20	20	3/4	26.4-27.2	28.6-29.4	50
R2AT1-2SN25	25	1	33.9-24.7	36.5-37.1	

Liner: Synthetic oil resistant rubber

Reinforcement: High tensile steel braid

Working Temperature: -40°C to +100°C

Intermittent Temperature: -40°C to +120°C



Gearboxes





GEARBOXES

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Worm Gearbox Design



Designation

NMRV30-R10-D63-B5

NMRV	Worm Reduction Unit
30	Centre Distance
10	Reduction Ratio
D63	Electric Motor Frame Size
B5	Mounting Type

Input Motor Flanges



NMRV	Motor Flange							Input Hub Bore												
	PAM IEC	N	M	P	E	F	D	Transmission Ratio												
								7.5	10	15	20	25	30	40	50	60	80	100		
NMRV030	63B5	95	115	140	4	12.8	14	11	11	11	11	11	11	11	11	11	-	-	-	
	63B14	60	75	90				9	9	9	9	9	9	9	9	9	9	9	9	9
	56B5	80	100	120	3	10.4		-	-	-	-	-	-	-	-	-	-	-	-	-
	56B14	50	65	80				14	14	14	14	14	14	14	14	14	14	14	14	14
NMRV040	71B5	110	130	160	5	16.3	18	19	19	19	19	19	19	19	19	19	-	-	-	
	71B14	70	85	105				11	11	11	11	11	11	11	11	11	11	11	11	11
	63B5	95	115	140	4	12.8		-	-	-	-	-	-	-	-	-	-	-	-	
	63B14	60	75	90				9	9	9	9	9	9	9	9	9	9	9	9	9
	56B5	80	100	120	3	10.4		19	19	19	19	19	19	19	19	19	19	19	19	19
NMRV050	80B5	130	165	200	6	21.8	25	14	14	14	14	14	14	14	14	14	14	14	-	
	80B14	80	100	120				-	-	-	-	-	-	-	-	-	-	-	-	-
	71B5	110	130	160	5	16.3		19	19	19	19	19	19	19	19	19	19	19	19	
	71B14	70	85	105				14	14	14	14	14	14	14	14	14	14	14	14	
	63B5	95	115	140	4	12.8		-	-	-	-	-	-	11	11	11	11	11	11	
NMRV063	90B5	130	165	200	8	27.3	25	24	24	24	24	24	24	24	24	24	24	24	-	
	90B14	95	115	140				19	19	19	19	19	19	19	19	19	19	19	19	19
	80B5	130	165	200	6	21.8		-	-	-	-	-	-	-	-	-	-	-	-	
	80B14	80	100	120				14	14	14	14	14	14	14	14	14	14	14	14	
	71B5	110	130	160	5	16.3		28	28	28	28	28	28	28	28	28	28	28	28	28
	71B14	70	85	105				24	24	24	24	24	24	24	24	24	24	24	24	24
NMRV075	100/112B5	180	215	250	8	31.3	28	-	-	-	-	-	-	-	-	-	-	-		
	100/112B14	110	130	160				19	19	19	19	19	19	19	19	19	19	19	19	
	90B5	130	165	200	8	27.3		-	-	-	-	-	-	-	-	-	-	-		
	90B14	95	115	140				24	24	24	24	24	24	24	24	24	24	24	24	
	80B5	130	165	200	6	21.8		28	28	28	28	28	28	28	28	28	28	28	28	
	80B14	80	100	120				19	19	19	19	19	19	19	19	19	19	19	19	
NMRV090	100/112B5	180	215	250	8	31.3	35	24	24	24	24	24	24	24	24	24	24	24		
	100/112B14	110	130	160				-	-	-	-	-	-	-	-	-	-	-	-	
	90B5	130	165	200	8	27.3		19	19	19	19	19	19	19	19	19	19	19		
	90B14	95	115	140				28	28	28	28	28	28	28	28	28	28	28	28	
	80B5	130	165	200	6	21.8		-	-	-	-	-	-	19	19	19	19	19		

Every effort has been taken to ensure that the data listed in this catalogue is correct. Finer Power Transmissions P/L will not accept liability for any damage or loss caused as a result of the data in this catalogue.



RPM=1400

NMRV30

Ratio	Speed (RPM)	Power (kW1)	Torque (Nm)	Service Factor
7	186.6	0.18	8	2.3
10	140	0.18	10	1.8
15	93.3	0.18	14	1.3
20	70	0.18	18	1
25	56	0.18	21	1
30	46.6	0.18	24	0.8
40	35	0.12	19	0.9
50	28	0.12	23	0.8
60	23.3	0.09	19	0.8
80	17.5	0.06	14	0.9

NMRV40

Ratio	Speed (RPM)	Power (kW1)	Torque (Nm)	Service Factor
7	186.6	0.37	16	2.4
10	140	0.37	21	1.9
15	93.3	0.37	31	1.3
20	70	0.37	39	0.9
25	56	0.37	47	0.8
30	46.6	0.37	53	0.8
40	35	0.25	44	0.9
50	28	0.18	38	1
60	23.3	0.18	43	0.8
80	17.5	0.12	34	0.9
100	14	0.12	38	0.8

NMRV50

Ratio	Speed (RPM)	Power (kW1)	Torque (Nm)	Service Factor
7.5	186.6	0.75	34	2.1
10	140	0.75	44	1.6
15	93.3	0.75	63	1.2
20	70	0.75	81	0.9
25	56	0.55	71	1
30	46.6	0.55	81	1
40	35	0.37	68	1.1
50	28	0.37	80	0.9
60	23.3	0.37	89	0.8
80	17.5	0.25	72	0.8
100	14	0.18	60	0.9

NMRV63

Ratio	Speed (RPM)	Power (kW1)	Torque (Nm)	Service Factor
7.5	186.6	1.5	68	1.9
10	140	1.5	89	1.5
15	93.3	1.5	127	1.1
20	70	1.5	166	0.8
25	56	1.1	146	0.8
30	46.6	1.1	167	0.9
40	35	0.75	143	1
50	28	0.55	124	1
60	23.3	0.55	140	0.9
80	17.5	0.37	115	1
100	14	0.37	129	0.9

NMRV75

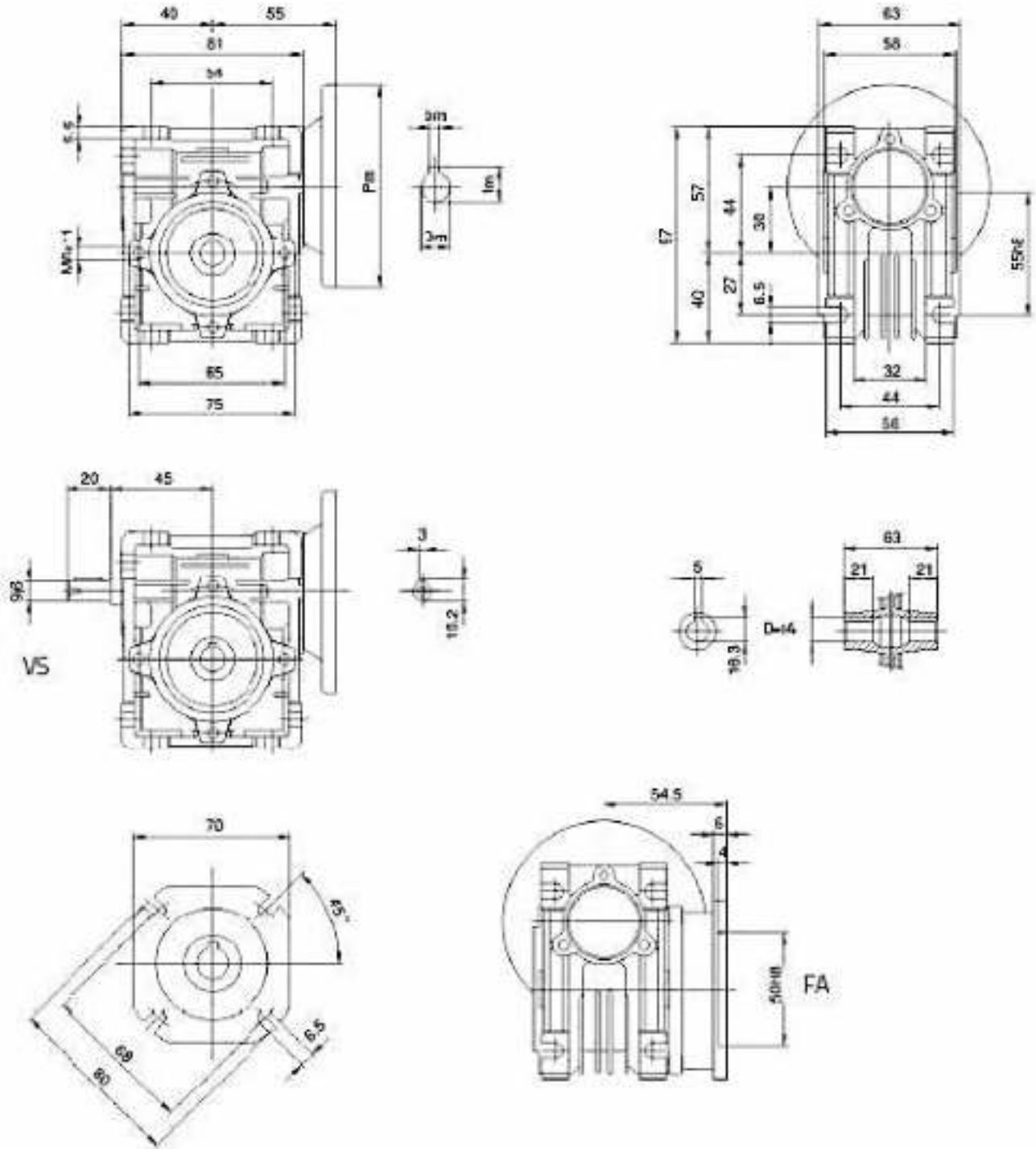
Ratio	Speed (RPM)	Power (kW1)	Torque (Nm)	Service Factor
7.5	186.6	4	182	1
10	140	3	180	1
15	93.3	3	260	0.8
20	70	1.5	174	1.2
25	56	1.5	204	0.9
30	46.6	1.1	180	1.3
40	35	1.1	2016	1
50	28	0.75	189	1.1
60	23.3	0.75	218	0.9
80	17.5	0.55	180	1
100	14	0.55	206	0.8

NMRV90

Ratio	Speed (RPM)	Power (kW1)	Torque (Nm)	Service Factor
7.5	186.6	4	184	1.6
10	140	4	243	1.3
15	93.3	4	352	1
20	70	4	458	0.8
25	56	3	420	0.8
30	46.6	3	479	0.8
40	35	1.5	307	1.2
50	28	1.5	368	0.9
60	23.3	1.5	424	0.8
80	17.5	0.75	258	1.1
100	14	0.75	302	0.8

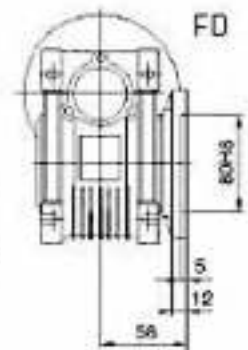
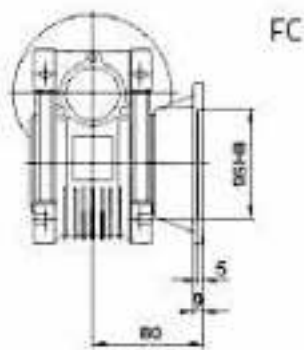
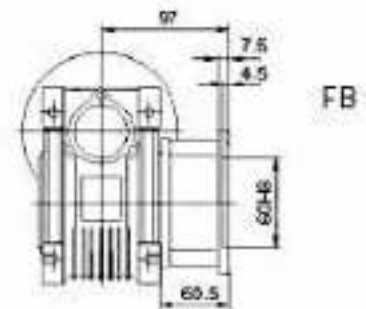
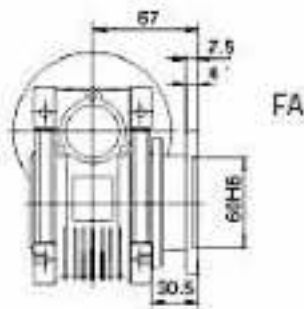
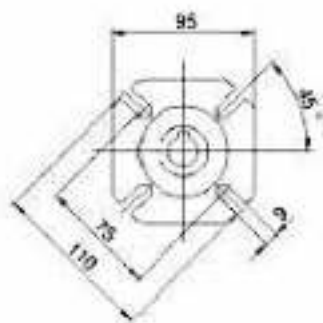
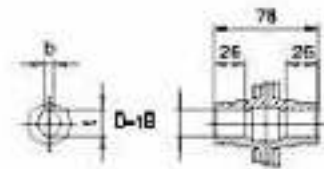
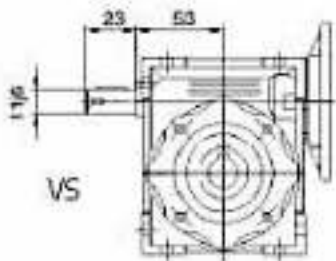
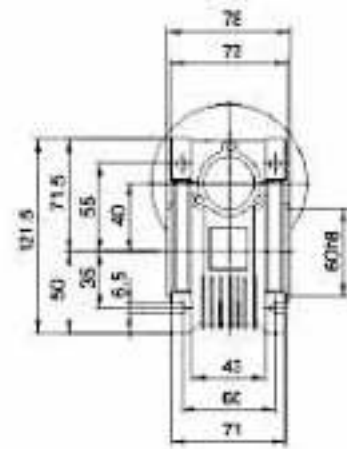
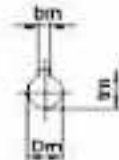
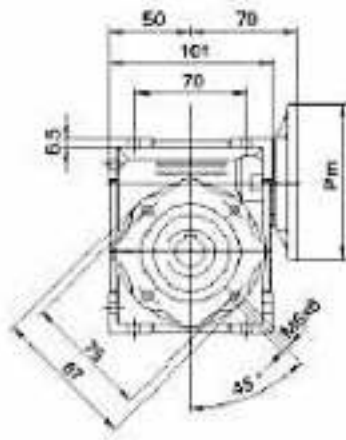


NMRV030 Gearbox Dimensions



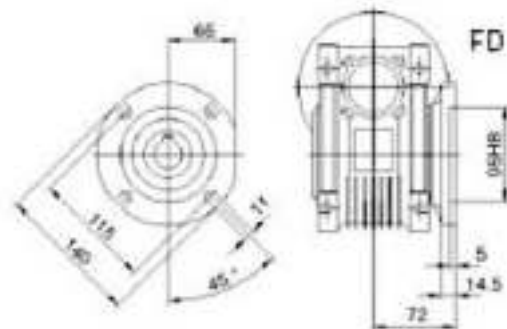
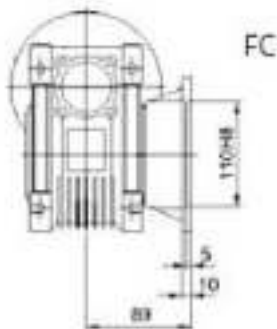
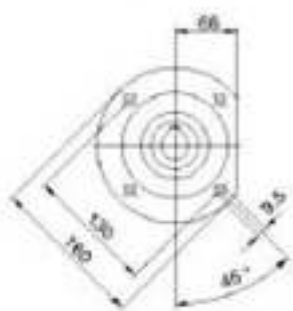
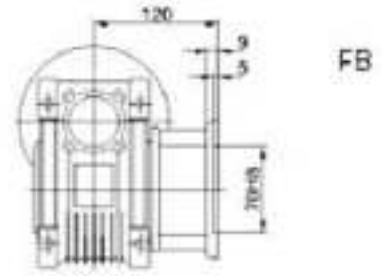
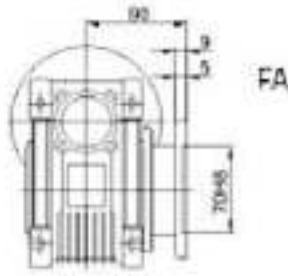
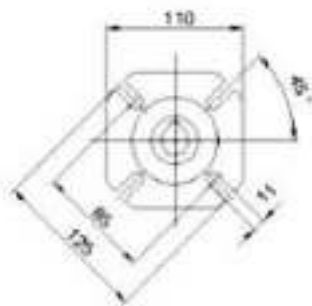
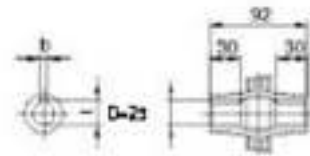
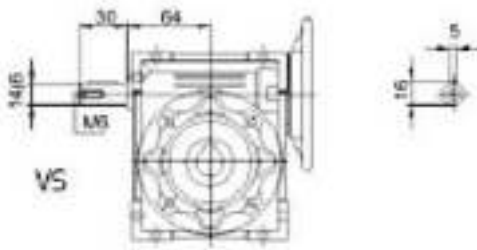
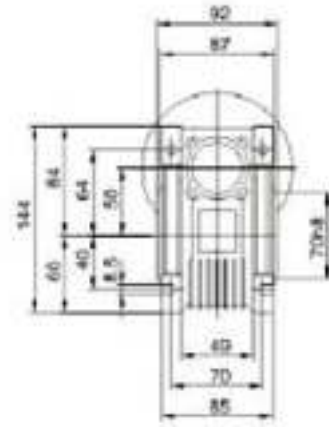


NMRV040 Gearbox Dimensions



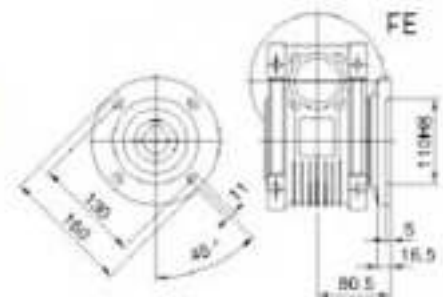
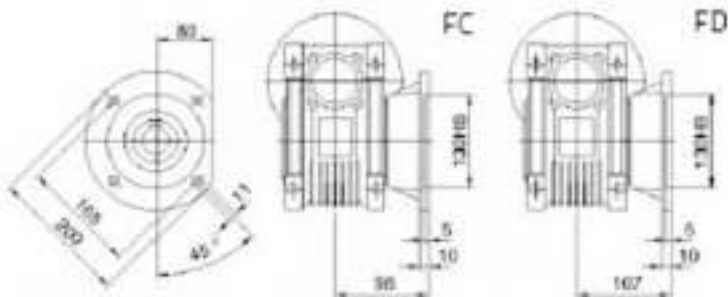
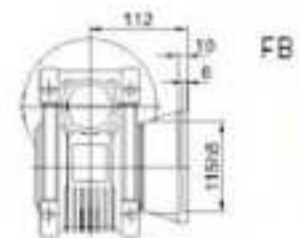
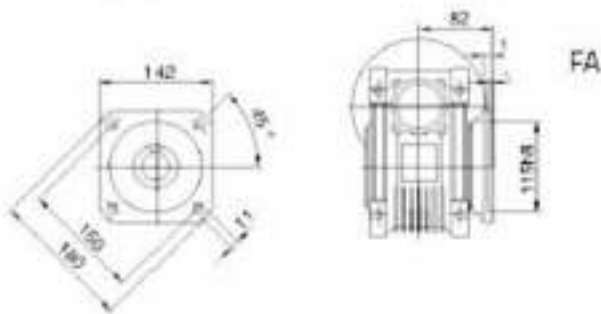
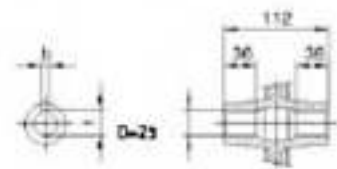
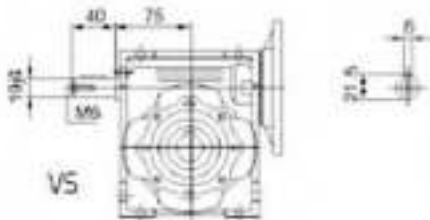
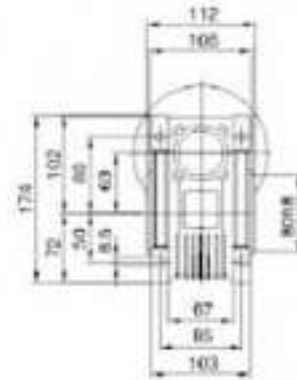
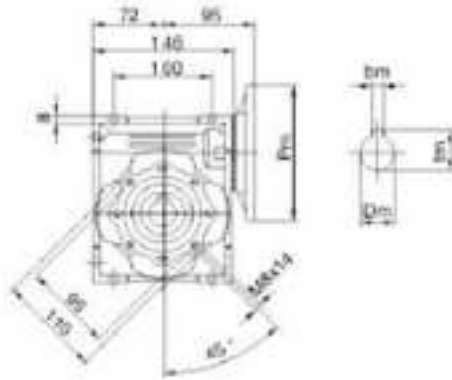


NMRV050 Gearbox Dimensions



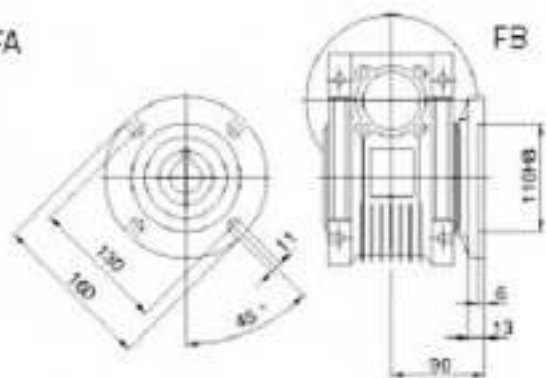
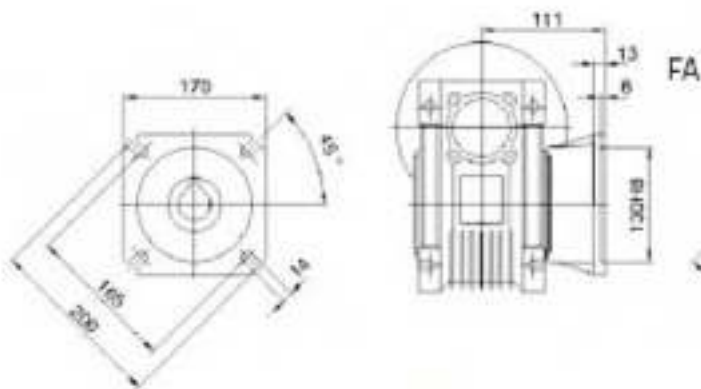
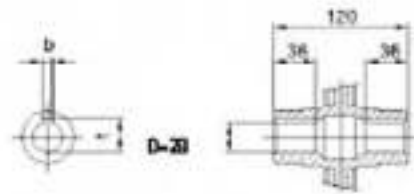
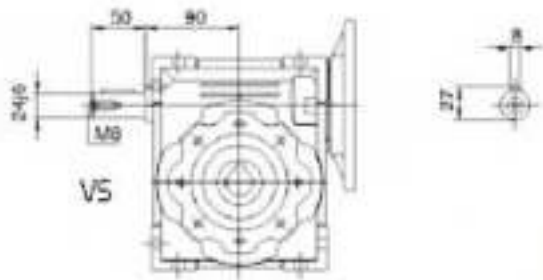
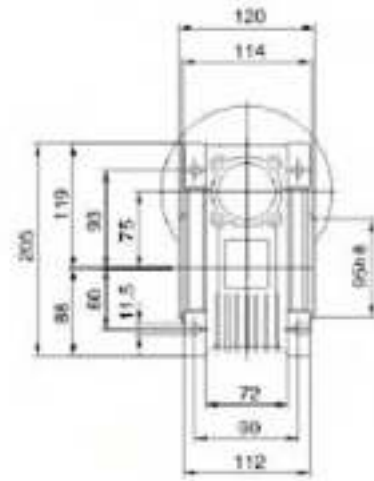
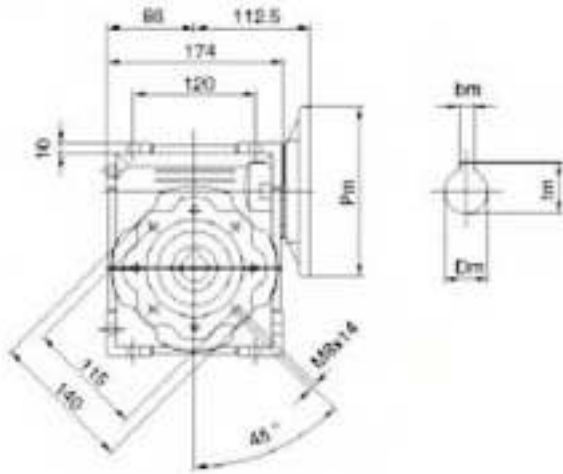


NMRV063 Gearbox Dimensions



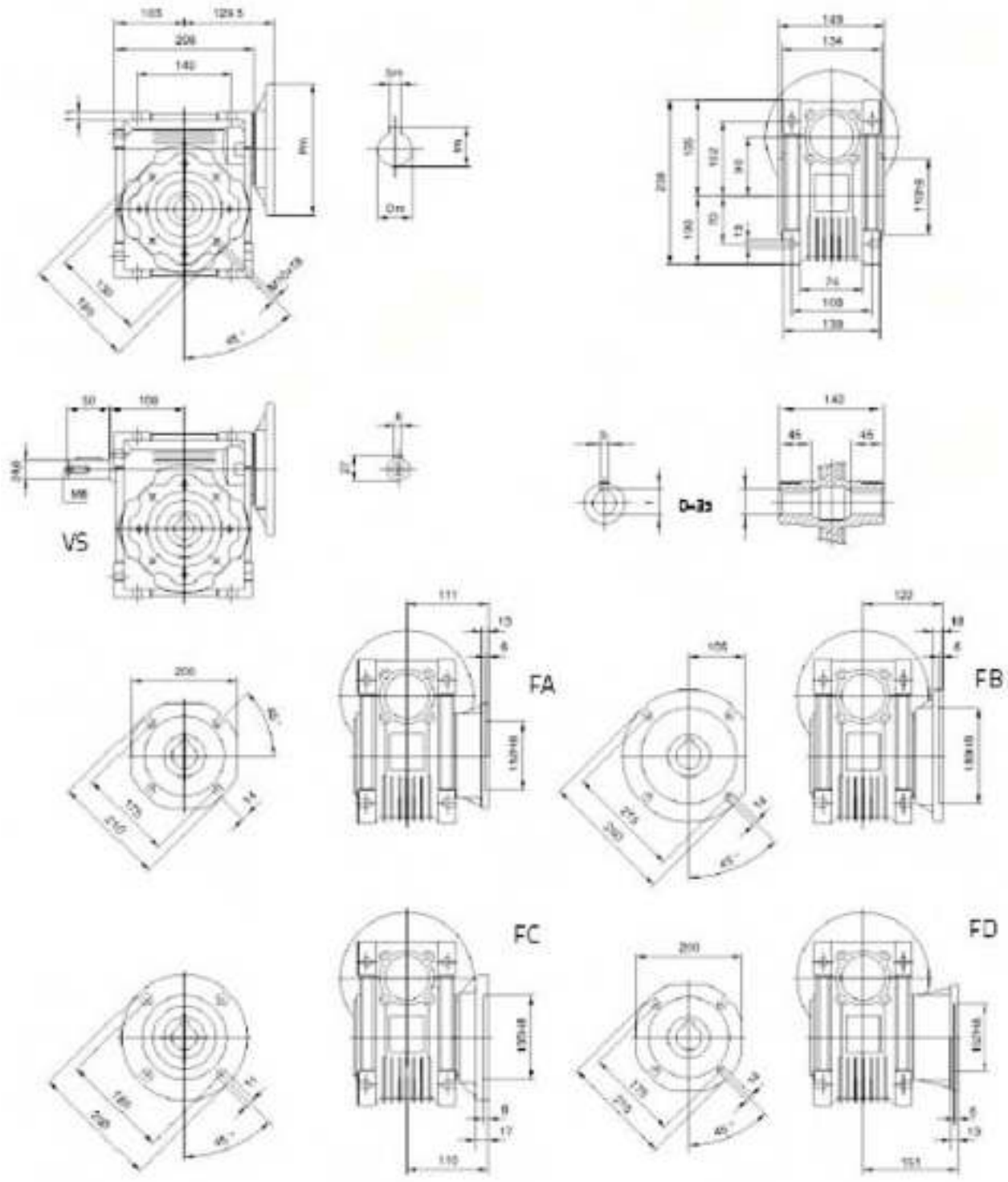


NMRV075 Gearbox Dimensions





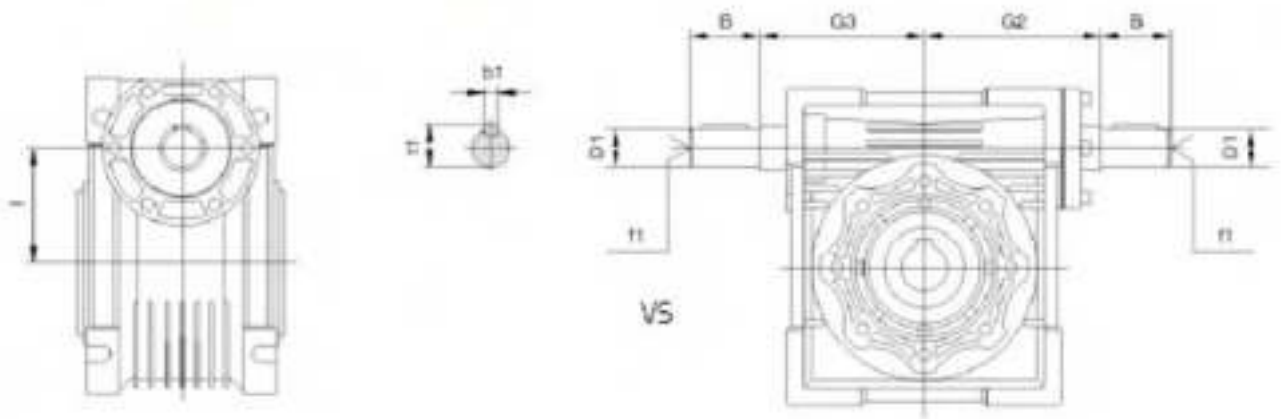
NMRV090 Gearbox Dimensions





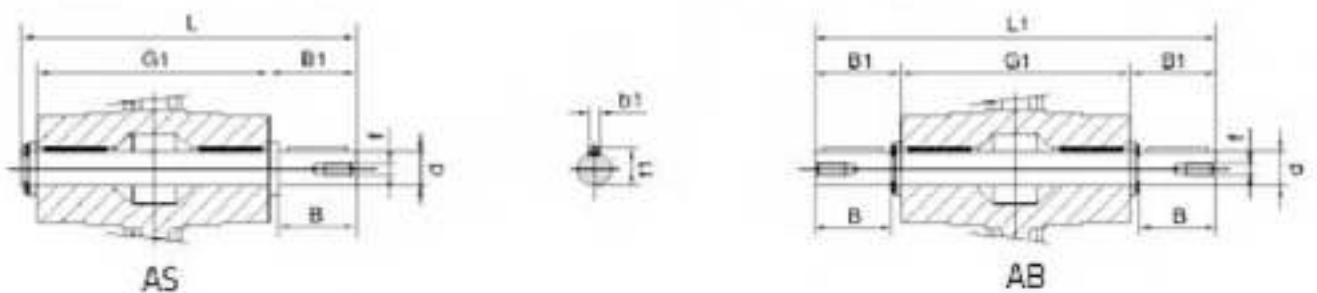
Shaft Dimensions

NMRV	G2	G3	D1	B	F1	l	b1	t1
030	51	45	9j6	20	-	30	3	10.2
040	60	53	11j6	23	-	40	4	12.5
050	74	64	14j6	30	M6	50	5	16
063	90	75	19j6	40	M6	63	6	21.5
075	105	90	24j6	50	M8	75	8	27
090	125	108	24j6	50	50	90	8	27



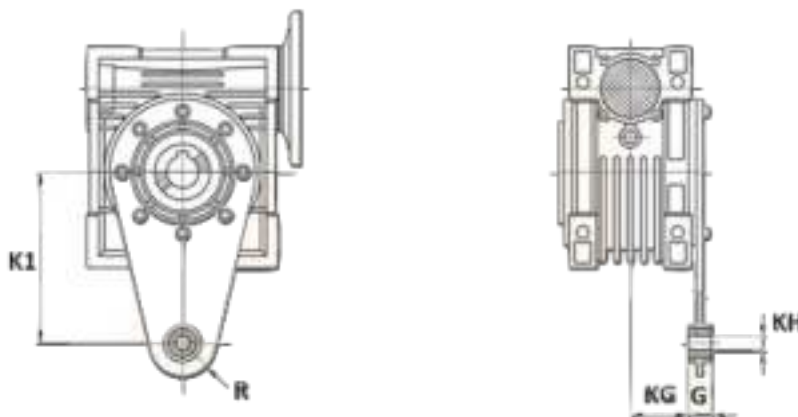
Low Speed Shafts Dimensions

NMRV	d	B	B1	G1	L	f	b1	t1
030	14 g6	30	32.5	63	102	M6	5	16
040	18 h6	40	43	78	128	M6	6	20.5
050	25 h6	50	53.5	92	153	M10	8	28
063	25 h6	50	53.5	112	173	M10	8	28
075	28 h6	60	63.5	120	192	M10	8	31
090	35 h6	80	84.5	140	234	M12	10	38



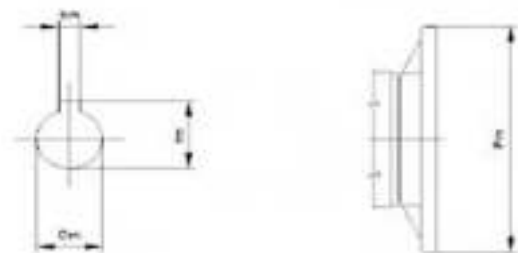


Torque Arm Dimensions



NMRV	K1	G	KG	KH	R
030	85	14	24	8	15
040	100	14	31.5	10	18
050	100	14	38.5	10	18
063	150	14	49	10	18
075	200	25	47.5	20	30
090	200	25	57.5	20	30

Input Flanges Dimensions



B5	IEC					
	056	063	071	080	090	100
Pm	120	140	160	200	200	250
Dm	9	11	14	19	24	28
bm	3	4	5	6	8	8
tm	10.4	12.8	16.3	21.8	27.3	31.3

B14	IEC					
	056	063	071	080	090	100
Pm	80	90	105	120	140	160
Dm	9	11	14	19	24	28
bm	3	4	5	6	8	8
tm	10.4	12.8	16.3	21.8	27.3	31.3



Worm Gearboxes with Input Flanges							
Part Number	Size	Ratio	Flange	Part Number	Size	Ratio	Flange
NMRV30-R7-D63-B5	NMRV30	7:1	D63-B5	NMRV63-R7.5-D90-B5	NMRV63	7.5:1	D90-B5
NMRV30-R10-D63-B5	NMRV30	10:1	D63-B5	NMRV63-R10-D90-B5	NMRV63	10:1	D90-B5
NMRV30-R15-D63-B5	NMRV30	15:1	D63-B5	NMRV63-R15-D90-B5	NMRV63	15:1	D90-B5
NMRV30-R20-D63-B5	NMRV30	20:1	D63-B5	NMRV63-R20-D90-B5	NMRV63	20:1	D90-B5
NMRV30-R25-D63-B5	NMRV30	25:1	D63-B5	NMRV63-R25-D90-B5	NMRV63	25:1	D90-B5
NMRV30-R30-D63-B5	NMRV30	30:1	D63-B5	NMRV63-R30-D90-B5	NMRV63	30:1	D90-B5
NMRV30-R40-D63-B5	NMRV30	40:1	D63-B5	NMRV63-R40-D80-B5	NMRV63	40:1	D80-B5
NMRV30-R50-D63-B5	NMRV30	50:1	D63-B5	NMRV63-R50-D80-B5	NMRV63	50:1	D80-B5
NMRV30-R60-D56-B5	NMRV30	60:1	D56-B5	NMRV63-R60-D80-B5	NMRV63	60:1	D80-B5
NMRV30-R80-D56-B5	NMRV30	80:1	D56-B5	NMRV63-R80-D71-B5	NMRV63	80:1	D71-B5
				NMRV63-R100-D71-B5	NMRV63	100:1	D71-B5
NMRV40-R7-D71-B5	NMRV40	7:1	D71-B5				
NMRV40-R10-D71-B5	NMRV40	10:1	D71-B5	NMRV75-R7.5-D100-B5	NMRV75	7.5:1	D100-B5
NMRV40-R15-D71-B5	NMRV40	15:1	D71-B5	NMRV75-R10-D100-B5	NMRV75	10:1	D100-B5
NMRV40-R20-D71-B5	NMRV40	20:1	D71-B5	NMRV75-R15-D100-B5	NMRV75	15:1	D100-B5
NMRV40-R25-D71-B5	NMRV40	25:1	D71-B5	NMRV75-R20-D90-B5	NMRV75	20:1	D90-B5
NMRV40-R30-D71-B5	NMRV40	30:1	D71-B5	NMRV75-R25-D90-B5	NMRV75	25:1	D90-B5
NMRV40-R40-D71-B5	NMRV40	40:1	D71-B5	NMRV75-R30-D90-B5	NMRV75	30:1	D90-B5
				NMRV75-R40-D90-B5	NMRV75	40:1	D90-B5
NMRV40-R50-D63-B5	NMRV40	50:1	D63-B5	NMRV75-R40-D80-B5	NMRV75	40:1	D80-B5
NMRV40-R60-D63-B5	NMRV40	60:1	D63-B5	NMRV75-R50-D80-B5	NMRV75	50:1	D80-B5
NMRV40-R80-D63-B5	NMRV40	80:1	D63-B5	NMRV75-R60-D80-B5	NMRV75	60:1	D80-B5
NMRV40-R100-D63-B5	NMRV40	100:1	D63-B5	NMRV75-R80-D80-B5	NMRV75	80:1	D80-B5
				NMRV75-R100-D80-B5	NMRV75	100:1	D80-B5
NMRV50-R7.5-D80-B5	NMRV50	7.5:1	D80-B5	NMRV75-R100-D80-B5	NMRV75	100:1	D80-B5
NMRV50-R10-D80-B5	NMRV50	10:1	D80-B5	NMRV90-R7.5-D100-B5	NMRV90	7.5:1	D100-B5
NMRV50-R15-D80-B5	NMRV50	15:1	D80-B5	NMRV90-R10-D100-B5	NMRV90	10:1	D100-B5
NMRV50-R20-D80-B5	NMRV50	20:1	D80-B5	NMRV90-R15-D100-B5	NMRV90	15:1	D100-B5
NMRV50-R25-D80-B5	NMRV50	25:1	D80-B5	NMRV90-R20-D100-B5	NMRV90	20:1	D100-B5
NMRV50-R30-D80-B5	NMRV50	30:1	D80-B5	NMRV90-R25-D100-B5	NMRV90	25:1	D100-B5
NMRV50-R40-D71-B5	NMRV50	40:1	D71-B5	NMRV90-R30-D100-B5	NMRV90	30:1	D100-B5
NMRV50-R50-D71-B5	NMRV50	50:1	D71-B5	NMRV90-R40-D90-B5	NMRV90	40:1	D90-B5
NMRV50-R60-D71-B5	NMRV50	60:1	D71-B5	NMRV90-R50-D90-B5	NMRV90	50:1	D90-B5
NMRV50-R80-D71-B5	NMRV50	80:1	D71-B5	NMRV90-R60-D90-B5	NMRV90	60:1	D90-B5
NMRV50-R100-D63-B5	NMRV50	100:1	D63-B5	NMRV90-R80-D80-B5	NMRV90	80:1	D80-B5
				NMRV90-R100-D80-B5	NMRV90	100:1	D80-B5

Bush & Key Sets			
Part Number	Description	Part Number	Description
NMRV-9X11BK-SET	Bush & Key Set	NMRV-19X24BK-SET	Bush & Key Set
NMRV-11X14BK-SET	Bush & Key Set	NMRV-19X28BK-SET	Bush & Key Set
NMRV-14X19BK-SET	Bush & Key Set	NMRV-24X28BK-SET	Bush & Key Set



Input Flanges	
Part Number	Description
NMRV30-D56-B5-IF	NMRV30 D56-B5 Input Flange (with seal)
NMRV30-D56-B14-IF	NMRV30 D56-B14 Input Flange (with seal)
NMRV30-D63-B5-IF	NMRV30 D63-B5 Input Flange (with seal)
NMRV30-D63-B14-IF	NMRV30 D63-B14 Input Flange (with seal)
NMRV40-D63-B5-IF	NMRV40 D63-B5 Input Flange (with seal)
NMRV40-D63-B14-IF	NMRV40 D63-B14 Input Flange (with seal)
NMRV40-D71-B5-IF	NMRV40 D71-B5 Input Flange (with seal)
NMRV40-D71-B14-IF	NMRV40 D71-B14 Input Flange (with seal)
NMRV50-D63-B5-IF	NMRV50 D63-B5 Input Flange (with seal)
NMRV50-D63-B14-IF	NMRV50 D63-B14 Input Flange (with seal)
NMRV50-D71-B5-IF	NMRV50 D71-B5 Input Flange (with seal)
NMRV50-D71-B14-IF	NMRV50 D71-B14 Input Flange (with seal)
NMRV50-D80-B5-IF	NMRV50 D80-B5 Input Flange (with seal)
NMRV50-D80-B14-IF	NMRV50 D80-B14 Input Flange (with seal)
NMRV63-D71-B5-IF	NMRV63 D71-B5 Input Flange (with seal)
NMRV63-D71-B14-IF	NMRV63 D71-B14 Input Flange (with seal)
NMRV63-D80-B5-IF	NMRV63 D80-B5 Input Flange (with seal)
NMRV63-D80-B14-IF	NMRV63 D80-B14 Input Flange (with seal)
NMRV63-D90-B5-IF	NMRV63 D90-B5 Input Flange (with seal)
NMRV63-D90-B14-IF	NMRV63 D90-B14 Input Flange (with seal)
NMRV75-D71-B5-IF	NMRV75 D71-B5 Input Flange (with seal)
NMRV75-D80-B5-IF	NMRV75 D80-B5 Input Flange (with seal)
NMRV75-D80-B14-IF	NMRV75 D80-B14 Input Flange (with seal)
NMRV75-D90-B5-IF	NMRV75 D90-B5 Input Flange (with seal)
NMRV75-D90-B14-IF	NMRV75 D90-B14 Input Flange (with seal)
NMRV75-D100-B5-IF	NMRV75 D100-B5 Input Flange (with seal)
NMRV75-D100-B14-IF	NMRV75 D100-B14 Input Flange (with seal)
NMRV90-D80-B5-IF	NMRV90 D80-B5 Input Flange (with seal)
NMRV90-D80-B14-IF	NMRV90 D80-B14 Input Flange (with seal)
NMRV90-D90-B5-IF	NMRV90 D90-B5 Input Flange (with seal)
NMRV90-D90-B14-IF	NMRV90 D90-B14 Input Flange (with seal)
NMRV90-D100-B5-IF	NMRV90 D100-B5 Input Flange (with seal)
NMRV90-D100-B14-IF	NMRV90 D100-B14 Input Flange (with seal)

Output Flanges	
Part Number	Description
NMRV30-FA-OF	NMRV30 FA Output Flange
NMRV40-FA-OF	NMRV40 FA Output Flange
NMRV40-FB-OF	NMRV40 FB Output Flange
NMRV40-FC-OF	NMRV40 FC Output Flange
NMRV40-FD-OF	NMRV40 FD Output Flange
NMRV50-FA-OF	NMRV50 FA Output Flange
NMRV50-FB-OF	NMRV50 FB Output Flange
NMRV50-FC-OF	NMRV50 FC Output Flange
NMRV50-FD-OF	NMRV50 FD Output Flange
NMRV63-FA-OF	NMRV63 FA Output Flange
NMRV63-FB-OF	NMRV63 FB Output Flange
NMRV63-FC-OF	NMRV63 FC Output Flange
NMRV63-FD-OF	NMRV63 FD Output Flange
NMRV75-FA-OF	NMRV75 FA Output Flange
NMRV75-FB-OF	NMRV75 FB Output Flange
NMRV75-FC-OF	NMRV75 FC Output Flange
NMRV75-FD-OF	NMRV75 FD Output Flange
NMRV90-FA-OF	NMRV90 FA Output Flange
NMRV90-FB-OF	NMRV90 FB Output Flange
NMRV90-FC-OF	NMRV90 FC Output Flange
NMRV90-FD-OF	NMRV90 FD Output Flange

Torque Arms	
Part Number	Description
NMRV30-TORQUE-ARM	NMRV30 Torque Arm
NMRV40-TORQUE-ARM	NMRV40 Torque Arm
NMRV50-TORQUE-ARM	NMRV50 Torque Arm
NMRV63-TORQUE-ARM	NMRV63 Torque Arm
NMRV75-TORQUE-ARM	NMRV75 Torque Arm
NMRV90-TORQUE-ARM	NMRV90 Torque Arm

Shafts	
Part Number	Description
NMRV30-SHAFT	NMRV30 Single Shaft
NMRV30-D-SHAFT	NMRV30 Double Shaft
NMRV40-SHAFT	NMRV40 Single Shaft
NMRV40-D-SHAFT	NMRV40 Double Shaft
NMRV50-SHAFT	NMRV50 Single Shaft
NMRV50-D-SHAFT	NMRV50 Double Shaft
NMRV63-SHAFT	NMRV63 Single Shaft
NMRV63-D-SHAFT	NMRV63 Double Shaft
NMRV75-SHAFT	NMRV75 Single Shaft
NMRV75-D-SHAFT	NMRV75 Double Shaft
NMRV90-SHAFT	NMRV90 Single Shaft
NMRV90-D-SHAFT	NMRV90 Double Shaft



INTERCHANGE CHARTS

Chain Quick Reference	9.6.4
Sprockets	9.6.11
DOM Tensioners Cross Reference	9.6.12
Couplings Comparison Chart	9.6.13
Bare Essentials Checklist for Drive Selection	9.6.13
Self Locking Units	9.6.14
Spherical Plain Bearings	9.6.15
Tapered Roller Bearings	9.6.15
Rod Ends - Imperial	9.6.16
Rod Ends - Metric	9.6.17
Deep Groove Bearings - Imperial	9.6.19
Disc Harrow Bearings	9.6.20
Needle Roller Bearings	9.6.22
WIR Bearings	9.6.24
Bore Size Cross Reference	9.6.24
WIR Housings	9.6.26
Universal Joints	9.6.28

Chain Number	Pitch Inch	Pitch mm	Roller Diameter mm	Roller Width mm	Inner Plate Thickness mm
25-1	0.25	6.35	3.302	3.175	0.76
25-2	0.25	6.35	3.302	3.175	0.76
25-1SS	0.25	6.35	3.302	3.175	0.76
05B-1	0.312	8	5	3	1.3
05B-2	0.312	8	5	3	1.3
05B-1SS	0.312	8	5	3	1.3
05B-1N	0.312	8	5	3	1.3
35-1	0.375	9.525	5.08	4.763	1.27
35-2	0.375	9.525	5.08	4.763	1.27
35-3	0.375	9.525	5.08	4.763	1.27
35-1N	0.375	9.525	5.08	4.763	1.27
35-1SS	0.375	9.525	5.08	4.763	1.27
06B-1	0.375	9.525	6.35	5.72	1.4
06B-2	0.375	9.525	6.35	5.72	1.4
06B-3	0.375	9.525	6.35	5.72	1.4
06B-1N	0.375	9.525	6.35	5.72	1.4
06B-1SS	0.375	9.525	6.35	5.72	1.4
40-1	0.5	12.7	7.925	7.938	1.52
40-2	0.5	12.7	7.925	7.938	1.52
40-3	0.5	12.7	7.925	7.938	1.52
40HP	0.5	12.7	7.925	7.938	1.52
40SB	0.5	12.7	7.925	7.938	1.52
40SL	0.5	12.7	7.925	7.938	1.52
40N	0.5	12.7	7.925	7.938	1.52
40-1SS	0.5	12.7	7.925	7.938	1.52
40-2SS	0.5	12.7	7.925	7.938	1.52
40H	0.5	12.7	7.925	7.938	2
40AQUA	0.5	12.7	7.925	7.938	1.52
40NEO	0.5	12.7	7.925	7.938	1.52
08B-1	0.5	12.7	8.51	7.75	1.5
08B-2	0.5	12.7	8.51	7.75	1.5
08B-3	0.5	12.7	8.51	7.75	1.5
08B-1N	0.5	12.7	8.51	7.75	1.5
08B-1SS	0.5	12.7	8.51	7.75	1.5
08B-2SS	0.5	12.7	8.51	7.75	1.5
08B-1AQUA	0.5	12.7	8.51	7.75	1.5
08B-2AQUA	0.5	12.7	8.51	7.75	1.5
08B-1NEO	0.5	12.7	8.51	7.75	1.5
08B-2NEO	0.5	12.7	8.51	7.75	1.5
41-1	0.5	12.7	7.75	6.35	1.27
410	0.5	12.7	7.75	3.17	1
415	0.5	12.7	7.75	4.75	1.1
415S	0.5	12.7	7.75	4.75	1.5

Chain Number	Pitch Inch	Pitch mm	Roller Diameter mm	Roller Width mm	Inner Plate Thickness mm
420	0.5	12.7	7.75	6.35	1.5
428	0.5	12.7	8.51	7.92	1.5
428H	0.5	12.7	8.51	7.92	2
BL434	0.5	12.7	-	-	2
BL466	0.5	12.7	-	-	2
50-1	0.625	15.88	10.16	9.53	2.03
50-2	0.625	15.88	10.16	9.53	2.03
50-3	0.625	15.88	10.16	9.53	2.03
50F	0.625	15.88	10.16	9.53	2.03
50HE	0.625	15.88	10.16	9.53	2.4
50HP	0.625	15.88	10.16	9.53	2.03
50SB	0.625	15.88	10.16	9.53	2.03
50SL	0.625	15.88	10.16	9.53	2.03
50-1SS	0.625	15.88	10.16	9.53	2.03
50-2SS	0.625	15.88	10.16	9.53	2.03
50H	0.625	15.88	10.16	9.53	2.4
50N	0.625	15.88	10.16	9.53	2.03
50-1AQUA	0.625	15.88	10.16	9.53	2.03
50-2AQUA	0.625	15.88	10.16	9.53	2.03
50-1NEO	0.625	15.88	10.16	9.53	2.03
50-2NEO	0.625	15.88	10.16	9.53	2.03
520	0.625	15.88	10.16	6.35	2
520H	0.625	15.88	10.16	6.35	2.4
530	0.625	15.88	10.16	9.53	2.03
530H	0.625	15.88	10.16	9.53	2.4
10B-1	0.625	15.88	10.16	9.65	1.6
10B-2	0.625	15.88	10.16	9.65	1.6
10B-3	0.625	15.88	10.16	9.65	1.6
10B-1N	0.625	15.88	10.16	9.65	1.6
10B-1SS	0.625	15.88	10.16	9.65	1.6
10B-1AQUA	0.625	15.88	10.16	9.65	1.6
10B-2AQUA	0.625	15.88	10.16	9.65	1.6
10B-1NEO	0.625	15.88	10.16	9.65	1.6
10B-2NEO	0.625	15.88	10.16	9.65	1.6
BL523	0.625	15.88	-	-	2.4
BL532	0.625	15.88	-	-	2.4
BL534	0.625	15.88	-	-	2.4
AL544	0.625	15.88	-	-	2
BL546	0.625	15.88	-	-	2.4
AL566	0.625	15.88	-	-	2
BL566	0.625	15.88	-	-	2.4
630H	0.75	19.05	11.91	9.53	3.2
60-1	0.75	19.05	11.91	12.7	2.4

Chain Number	Pitch Inch	Pitch mm	Roller Diameter mm	Roller Width mm	Inner Plate Thickness mm
60-2	0.75	19.05	11.91	12.7	2.4
60-3	0.75	19.05	11.91	12.7	2.4
60-4	0.75	19.05	11.91	12.7	2.4
60F	0.75	19.05	11.91	12.7	2.4
60HE	0.75	19.05	11.91	12.7	3.2
60HP	0.75	19.05	11.91	12.7	2.4
60SL	0.75	19.05	11.91	12.7	2.4
60H	0.75	19.05	11.91	12.7	3.2
60-1SS	0.75	19.05	11.91	12.7	2.4
60-2SS	0.75	19.05	11.91	12.7	2.4
60N	0.75	19.05	11.91	12.7	2.4
60-1AQUA	0.75	19.05	11.91	12.7	2.4
60-2AQUA	0.75	19.05	11.91	12.7	2.4
60-1NEO	0.75	19.05	11.91	12.7	2.4
60-2NEO	0.75	19.05	11.91	12.7	2.4
12B-1	0.75	19.05	12.07	11.68	2
12B-2	0.75	19.05	12.07	11.68	2
12B-3	0.75	19.05	12.07	11.68	2
12B-1N	0.75	19.05	12.07	11.68	2
12B-1SS	0.75	19.05	12.07	11.68	2
12B-2SS	0.75	19.05	12.07	11.68	2
12B-1AQUA	0.75	19.05	12.07	11.68	2
12B-2AQUA	0.75	19.05	12.07	11.68	2
12B-1NEO	0.75	19.05	12.07	11.68	2
12B-2NEO	0.75	19.05	12.07	11.68	2
12B-3NEO	0.75	19.05	12.07	11.68	2
BL623	0.75	19.05	-	-	3.2
BL634	0.75	19.05	-	-	3.2
AL644	0.75	19.05	-	-	2.4
BL644	0.75	19.05	-	-	3.2
BL646	0.75	19.05	-	-	3.2
AL666	0.75	19.05	-	-	2.4
AL688	0.75	19.05	-	-	2.4
S25 DET	0.9	22.96	-	-	-
A2040	1	25.4	7.92	7.92	1.52
C2040	1	25.4	7.92	7.92	1.52
C2040HP	1	25.4	7.92	7.92	1.52
C2040SS	1	25.4	7.92	7.92	1.52
C2040NEO	1	25.4	7.92	7.92	1.52
208B	1	25.4	8.51	7.75	-
80F	1	25.4	15.88	15.88	3.2
80HE	1	25.4	15.88	15.88	4
80H	1	25.4	15.88	15.88	4

Chain Quick Reference

Chain Number	Pitch Inch	Pitch mm	Roller Diameter mm	Roller Width mm	Inner Plate Thickness mm
80H-SUPER	1	25.4	15.88	15.88	4
80-1	1	25.4	15.88	15.88	3.2
80-2	1	25.4	15.88	15.88	3.2
80-3	1	25.4	15.88	15.88	3.2
80-4	1	25.4	15.88	15.88	3.2
80N	1	25.4	15.88	15.88	3.2
80-1SS	1	25.4	15.88	15.88	3.2
80HP	1	25.4	15.88	15.88	3.2
80-1AQUA	1	25.4	15.88	15.88	3.2
80-1NEO	1	25.4	15.88	15.88	3.2
16B-1	1	25.4	15.88	17.02	3.2/4
16B-2	1	25.4	15.88	17.02	3.2/4
16B-3	1	25.4	15.88	17.02	3.2/4
16B-1SS	1	25.4	15.88	17.02	3.2/4
16B-1N	1	25.4	15.88	17.02	3.2/4
16B-1AQUA	1	25.4	15.88	17.02	3.2/4
16B-2AQUA	1	25.4	15.88	17.02	3.2/4
16B-1NEO	1	25.4	15.88	17.02	3.2/4
16B-2NEO	1	25.4	15.88	17.02	3.2/4
C2042	1	25.4	15.88	7.92	1.52
C2042HP	1	25.4	15.88	7.92	1.52
C2042N	1	25.4	15.88	7.92	1.52
C2042SS	1	25.4	15.88	7.92	1.52
BL823	1	25.4	-	-	4
BL834	1	25.4	-	-	4
AL844	1	25.4	-	-	3.2
BL844	1	25.4	-	-	4
BL846	1	25.4	-	-	4
AL866	1	25.4	-	-	3.2
BL866	1	25.4	-	-	4
S32	1.15	29.21	11.43	15.88	-
S32 DET	1.16	29.39	-	-	-
S51 DET	1.13	28.78	-	-	-
A2050	1.25	31.75	10.16	9.53	2.03
C2050	1.25	31.75	10.16	9.53	2.03
C2050HP	1.25	31.75	10.16	9.53	2.03
C2050N	1.25	31.75	10.16	9.53	2.03
C2050SS	1.25	31.75	10.16	9.53	2.03
C2050NEO	1.25	31.75	10.16	9.53	2.03
100-1	1.25	31.75	19.05	19.05	3.96
100-2	1.25	31.75	19.05	19.05	3.96
100-3	1.25	31.75	19.05	19.05	3.96
100HE	1.25	31.75	19.05	19.05	4.75

Chain Number	Pitch Inch	Pitch mm	Roller Diameter mm	Roller Width mm	Inner Plate Thickness mm
100H	1.25	31.75	19.05	19.05	4.75
100H-SUPER	1.25	31.75	19.05	19.05	4.75
100-1AQUA	1.25	31.75	19.05	19.05	3.96
100-1NEO	1.25	31.75	19.05	19.05	3.96
20B-1	1.25	31.75	19.56	19.05	4.7
20B-2	1.25	31.75	19.56	19.05	4.7
20B-3	1.25	31.75	19.56	19.05	4.7
20B-1AQUA	1.25	31.75	19.56	19.05	4.7
20B-1NEO	1.25	31.75	19.56	19.05	4.7
C2052	1.25	31.75	19.05	9.53	2.03
C2052HP	1.25	31.75	19.05	9.53	2.03
C2052SS	1.25	31.75	19.05	9.53	2.03
BL1034	1.25	31.75	-	-	4.8
BL1046	1.25	31.75	-	-	4.8
BL1066	1.25	31.75	-	-	4.8
A2060	1.5	38.1	11.91	12.7	2.39
C2060H	1.5	38.1	11.91	12.7	3.18
C2060HP	1.5	38.1	11.91	12.7	3.18
C2060HN	1.5	38.1	11.91	12.7	3.18
C2060HSS	1.5	38.1	11.91	12.7	3.18
C2060HNEO	1.5	38.1	11.91	12.7	3.18
C2060HAQUA	1.5	38.1	11.91	12.7	3.18
120-1	1.5	38.1	22.23	25.4	4.75
120-2	1.5	38.1	22.23	25.4	4.75
120-3	1.5	38.1	22.23	25.4	4.75
120HE	1.5	38.1	22.23	25.4	5.56
120H	1.5	38.1	22.23	25.4	5.56
120-1N	1.5	38.1	22.23	25.4	4.75
24B-1	1.5	38.1	25.4	25.4	6.3
24B-2	1.5	38.1	25.4	25.4	6.3
24B-3	1.5	38.1	25.4	25.4	6.3
C2062HP	1.5	38.1	22.23	12.7	3.18
C2062H	1.5	38.1	22.23	12.7	3.18
C2062HSS	1.5	38.1	22.23	12.7	3.18
C2062HN	1.5	38.1	22.23	12.7	3.18
C2062HNEO	1.5	38.1	22.23	12.7	3.18
C2062HAQUA	1.5	38.1	22.23	12.7	3.18
212B	1.5	38.1	12.07	11.68	-
BL1234	1.5	38.1	-	-	5.6
BL1246	1.5	38.1	-	-	5.6
S52	1.5	38.1	15.24	22.23	-
S52 DET	1.5	38.1	-	-	-
CA550	1.6	41.4	16.66	20.4	2.6

Chain Quick Reference

Chain Number	Pitch Inch	Pitch mm	Roller Diameter mm	Roller Width mm	Inner Plate Thickness mm
CA557	1.6	41.4	17.78	20.4	3.1
C55	1.6	41.43	18.24	17.45	4.75
S55	1.6	41.43	17.78	22.23	-
S62	1.65	41.91	19.05	25.4	-
662	1.66	42.27	-	-	3.2
S62 DET	1.65	42.01	-	-	-
140-1	1.75	44.45	25.4	25.4	5.56
140-2	1.75	44.45	25.4	25.4	5.56
140-3	1.75	44.45	25.4	25.4	5.56
140H-1	1.75	44.45	25.4	25.4	6.35
140H-2	1.75	44.45	25.4	25.4	6.35
140HE	1.75	44.45	25.4	25.4	6.35
140DC	1.75	44.45	25.4	25.4	6.35
28B-1	1.75	44.45	30.99	27.94	7.8
28B-2	1.75	44.45	30.99	27.94	7.8
28B-3	1.75	44.45	30.99	27.94	7.8
C2080H	2	50.8	15.88	15.88	3.96
C2080HSS	2	50.8	15.88	15.88	3.96
C2080N	2	50.8	15.88	15.88	3.96
C2080HP	2	50.8	15.88	15.88	3.96
C2080HNEO	2	50.8	15.88	15.88	3.96
160-1	2	50.8	28.58	31.75	6.35
160-2	2	50.8	28.58	31.75	6.35
160-3	2	50.8	28.58	31.75	6.35
160H	2	50.8	28.58	31.75	7.14
160HE	2	50.8	28.58	31.75	7.14
32B-1	2	50.8	30.99	29.21	7.3
32B-2	2	50.8	30.99	29.21	7.3
32B-3	2	50.8	30.99	29.21	7.3
C2082H	2	50.8	28.58	15.88	3.96
C2082HN	2	50.8	28.58	15.88	3.96
C2082HSS	2	50.8	28.58	15.88	3.96
C2082HP	2	50.8	28.58	15.88	3.96
180-1	2.25	57.15	35.71	35.71	7.13
180H	2.25	57.15	35.71	35.71	7.9
180DC	2.25	57.15	35.71	35.71	7.13
667K	2.25	57.15	-	-	5.1
C2100H	2.5	63.5	19.05	19.05	4.75
200-1	2.5	63.5	39.97	38.1	7.93
81X	2.6	66.27	23.01	17.46	3.97
81X Rooftop	2.6	66.27	23.01	17.46	3.97
81XH	2.6	66.27	23.01	17.46	7.93
H78	2.6	66.27	22.22	-	-

Chain Number	Pitch Inch	Pitch mm	Roller Diameter mm	Roller Width mm	Inner Plate Thickness mm
H78A	2.6	66.27	-	-	-
H78B	2.6	66.27	-	-	-
WH78	2.6	66.27	31.75	25.4	6.35
C188	2.6	66.27	22.23	23.8	6.35
SS188	2.6	66.27	22.23	25.6	6.35
88K	2.6	66.27	-	-	5.1
C2120H	3	76.2	22.23	25.4	5.56
C2122H	3	76.2	44.5	25.4	5.56
SS131	3.01	78.1	32.5	31.7	9.7
C102B	4	101.6	24.59	50.8	9.53
W 10	6	152.4	-	-	9.52
WH132	6	152.4	-	-	12.75

PITCH	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"
BS	06B-1	08B-1	10B-1	12B-1	16B-1	20B-1	24B-1
ASA	35-1	40-1	50-1	60-1	80-1	100-1	120-1
PLATE THICKNESS BS	5.2	7	8.7	10.5	16.1	18.6	24.25
PLATE THICKNESS ASA	4.3	7.2	8.7	11.7	14.6	17.6	25
ROLLER DIAMETER BS	6.35	8.51	10.16	12.07	15.88	19.05	25.4
ROLLER DIAMETER ASA	5.08 (Bush dia.)	7.95	10.16	11.91	15.88	19.05	22.23
BS SPROCKETS ON ASA CHAIN	x	a	a	a	x	x	x
ASA SPROCKETS ON BS CHAIN	x	x	a	x	a	a	a
NOTES	BS and ASA not interchangeable at all.	BS sprockets will wrap ASA chain, but ASA sprockets will not wrap BS chain - roller diameters differ.	BS and ASA are identical plate thickness and roller diameters - both interchangeable	BS sprockets will wrap ASA chain (not recommended for frequent forward/reverse indexing), but ASA sprockets will not wrap BS chain (unless teeth skimmed) - plate thickness differ.	ASA sprockets will wrap BS chain, BS sprockets will not wrap ASA chain (unless teeth have been skimmed.) Take care if using several ASA sprockets on BS chain.	ASA sprockets will wrap BS chain, BS sprockets may need to have teeth skimmed to run on ASA chain - plate thickness differ.	BS sprockets will wrap ASA chain (not recommended for frequent forward/reverse indexing), but ASA sprockets may need to have teeth skimmed to wrap BS chain - plate thickness differ.

Series S		
Chain Simplex		
Part No.	Pitch	Equivalent (Spann Box)
ET-S06B1H	06 B1	S 0 Profile P1
ET-S08B1H	08 B1	S 0 Profile P1
ET-S10B1H	10 B1	S 0 Profile P1
ET-S12B1H	12 B1	S 0 Profile P1
Chain Duplex		
Part No.	Pitch	Equivalent (Spann Box)
ET-S06B2H	06 B2	S 0 Profile P1
ET-S08B2H	08 B2	S 0 Profile P1
ET-S10B2H	10 B2	S 0 Profile P1
Chain Triplex		
Part No.	Pitch	Equivalent (Spann Box)
ET-S06B3H	06 B3	S 0 Profile P1
ET-S08B3H	06 B3	S 0 Profile P1

Series L		
Chain Simplex		
Part No.	Pitch	Equivalent (Spann Box)
ETL-AR06B1H	06 B1	S 30 Profile AA
ETL-AR08B1H	08 B1	S 30 Profile AA
ETL-AR10B1H	10 B1	S 30 Profile AA
ETL-AR12B1H	12 B1	S 30 Profile AA
ETL-AR16B1H	16 B1	S 30 Profile AA
ETL-AR20B1H	20 B1	S 30 Profile AA
Chain Duplex		
Part No.	Pitch	Equivalent (Spann Box)
ETL-AR06B2H	06 B2	S 30 Profile AA
ETL-AR08B2H	08 B2	S 30 Profile AA
ETL-AR10B2H	10 B2	S 30 Profile AA
ETL-AR12B2H	12 B2	S 30 Profile AA
ETL-AR16B2H	16 B2	S 30 Profile AA
Chain Triplex		
Part No.	Pitch	Equivalent (Spann Box)
ETL-AR06B3H	06 B3	S 30 Profile AA
ETL-AR08B3H	08 B3	S 30 Profile AA

Coupling Comparison Chart

Selection Criterion	Rigid	Chain	Gear	Taper Grid	Curved Tooth Gear	HRC	Jaw	Curved Jaw (Rotex)	Cone Ring	Tyre	Max Dynamic
Torque Range (Nm)	Up to 11300	217-8786	1138-135242	47-25980	18-160	31-3150	3.5-280	10-3600	50-15140	24-3770	21-19230
Speed Capability	Fair	Good	Excellent	Excellent	Fair	Good	Good	Excellent	Fair	Good	Excellent
Shaft Size Range - mm	11mm-125mm	14mm-110mm	13mm-255mm	12mm-184mm	8mm-41mm	25mm-90mm	14mm-60mm	6mm-100mm	12mm-150mm	10mm-75mm	35mm-124mm
Bore Types	Taperlock	Pilotbore	Pilotbore	Pilotbore	Pilotbore	Taperlock & Pilotbore	Pilotbore + Bore & Keyed Range	Taperlock & Pilotbore	Taperlock & Pilotbore	Taperlock	Pilotbore & Taperlock
Misalignment Capability (Maximum Angular - Deg.)	0	1	1.5	0.25	3-5	0.2-1.7	1	0.8-1.2	0.2-1.7	4	4
Temperature Range Standard Element	-100°C to +60°C	-10°C to +60°C	-40°C to +100°C	-18°C to +70°C	-25°C to +66°C	-40°C to +100°C	-40°C to +100°C	-4°C to +120°C	Up to +70°C	-50°C to +50°C	Up to +120°C
Ease of Installation	Easy	Easy	Fair	Fair	Easy	Easy	Easy	Easy	Easy	Fair	Fair
Damping Capacity	Poor	Fair	Poor	Fair	Poor	Good	Good	Good	Good	Excellent	Excellent

Bare Essentials Checklist for Drive Selection

COUPLING SELECTION
Power (kw or Hp)
Speed (RPM)
Shaft Sizes
Once you have this information you can contact the team at Finer Power Transmissions to help you select the appropriate drive.

Locking Assembly Interchange Chart

REACH (FINER)	01	02	04	07	19
B-LOC	B-400	B-800	B-700A	B-106	B-115
BIKON	4000	8000	1003	7000B	1012
BONFIX	CCE2000	CCE1000	CCE4000	CCE4600	
Chiaravalli	RCK40	RCK80	RCK70	RCK16	RCK11
COMPOMAC	CONEX A	CONEX B	CONEX D	CONEX ES/DS	CONEX G
EUROCONIC	210	55	54/N	914	
FENLOCK	FLK200	FLK110	FLK130	FLK133	FLK450
HAUSMANN	112	110	131	136	
ITALBLOCK	CN210	CN55	CN54/N	CN914	
KANA	200			201	
KINLOK	LOK30	LOK10	LOK20A		
KTR	KTR100/1	KTR250	KTR200	KTR206	KTR400
MAV	2005	5061	6901	1061	4061
OPTIBELT	1	2	4	7	
PETER GERWAH	2001			2002.3	
Poggi	CAL-A	CAL-B	CAL-D	CAL-ES	
QUANTUM	30	10	20		70
RC	40	80	70	16	
RINGBLOK	1120	1100	1300.1	1720	1800
Ringfeder	RFN7012	RFN7110	RFN7013.0	RFN7013.1	RFN7015
RINGSPANN	RLK200	RLK110	RLK130	RLK133	RLK450
SIT	Type 1	Type 3	Type 5A		
TAS - Schafer	TAS 3020			TAS 3006	
TOLLOK	TLK200	TLK110	TLK130	TLK133	TLK450
TSUBAKI	AS	TF			
VBLOK	VK400	VK800B	VK700	VK130	
VICENTINA	100	800	700	160	

Reach01 is not self centering.

Reach02 & Reach07 is self centering.

NOTE: The above comparison chart is accurate to the best of our knowledge.

The possibility exists that there might be some dimentinal and capacity differences, please check torque capabilities are adequate before supplying.

SDTZ Part#	Description	SKF Part#	INA Part#	IKO Part#
GE---ES	STD DUTY,METRIC,GROOVE AND HOLES	GE---ES	GE---DO	GE---ES
GE---ET	STD DUTY,TEFLON LINED, MAINT FREE	GE---TE	GE---UK	GE---EC
GEG---ES	MED DUTY, METRIC,GROOVE AND HOLES	GEH---ES	GE---FO	GE---GS
GEG---ET	MED DUTY ,METRIC, TEFLON LINED	GEH---TE	GE---FW	-
GEZ---ES	STD DUTY,INCH, GROOVE AND HOLES	GEZ---ES	GE---ZO	SBB
GEEM-ES	STD DUTY,METRIC WIDE INNER, GROOVE AND HOLES	GEM---ES	GE---HO	-

Tapered Roller Bearings

Bearing No.	Set	Bearing No.	Set	Bearing No.	Set
LM11749/10	SET1 / SET D	HM88649/10	SET67	LM300849/11	SET318
LM11949/10	SET2 / SET A	LM501349/14	SET69	M802048/10	SET328
M12649/10	SET3	LM29749/10	SET70	02474/20	SET362
L44649/10	SET4 / SET C	15101/245	SET73	395/394A	SET365
LM48548/10	SET5	387/382A	SET75	580/572	SET401
LM67048/10	SET6 / SET B	387A5/382A	SET76	582/572	SET402
L45449/10	SET8	55200C/55437	SET78	594A/592A	SET403
U399	SET10	HM88542/10	SET81	598A/592A	SET404
JL69349/10	SET11	LM104949/10	SET82	633/653	SET405
LM12749/10	SET12 / SET E	25877A/25821	SET96	3782/3720	SET406
L68149/10	SET13 / SET F	HM212049/10	SET99	29622/28682	SET407
L44643/10	SET14	HM89446/10	SET100	39590/39520	SET408
07100/07196	SET15	3982/3920	SET103	45220/45280	SET409
LM12749/11	SET16	L44642/10	SET104	45220/45284	SET410
L68149/11	SET17	JLM104948/10	SET107	47686/47620	SET411
LM102949/11	SET18	JLM506849/10	SET118	HM212047/11	SET412
U399A	SET20	25580/22	SET122	HM212049/11	SET413
1988/1922	SET21	3780/20	SET123	HM218248/10	SET414
LM67048/10BCE	SET27	368A/362A	SET201	HM518445/10	SET415
LM603049/12	SET36	469/453X	SET205	45220/45291	SET416
LM603049/11	SET37	M88046/10	SET219	47820/47890	SET417
LM104949/11	SET38	HM88649/10	SET222	H715334/11	SET418
15123/15245	SET43	2788/20	SET230	H715343/11	SET419
LM501349/10	SET45	M88043/10	SET242	H715345/11	SET420
LM102949/10	SET47	18590/20	SET253	HM516449A/10	SET421
25580/20	SET52	LM29749/11	SET268	HM516449C/10	SET422
LM29748/10	SET56	U298	SET280	6420/6461A	SET423
11590/20	SET61	U298H	SET284	552A/555S	SET424
M88048/10	SET63	M84548/10	SET308	563/567	SET425
HM903249/10	SET64	M86649/10	SET309	47620/47679	SET426
HM86647/10	SET65	HM89449/10	SET312		

Rod Ends - Imperial

SDTZ Part#	Description	LS Part#	SKF Part#	INA Part#	IKO Part#	Heim Part#	Aurora Part#
PHSB-3	IMPERIAL - FEMALE - RH - 3/16"	SIZP4S	-	-	PHSB-3	HF3	MW-3
PHSB-4	IMPERIAL - FEMALE - RH - 1/4"	SIZP6S	-	-	PHSB-4	HF4	MW-4
PHSB-5	IMPERIAL - FEMALE - RH - 5/16"	SIZP7S	-	-	PHSB-5	HF5	MW-5
PHSB-6	IMPERIAL - FEMALE - RH - 3/8"	SIZP9S	-	-	PHSB-6	HF6	MW-6
PHSB-7	IMPERIAL - FEMALE - RH - 7/16"	SIZP11S	-	-	PHSB-7	HF7	MW-7
PHSB-8	IMPERIAL - FEMALE - RH - 1/2"	SIZP12S	-	-	PHSB-8	HF8	MW-8
PHSB-10	IMPERIAL - FEMALE - RH - 5/8"	SIZP15S	-	-	PHSB-10	HF10	MW-10
PHSB-12	IMPERIAL - FEMALE - RH - 3/4"	SIZP19S	-	-	PHSB-12	HF12	MW-12
PHSB-16	IMPERIAL - FEMALE - RH - 1"	SIZP25S	-	-	PHSB-16	HF16	MW-16
PHSB-3L	IMPERIAL - FEMALE - LH - 3/16"	SILZP4S	-	-	PHSB-3L	HFL3	MG-3
PHSB-4L	IMPERIAL - FEMALE - LH - 1/4"	SILZP6S	-	-	PHSB-4L	HFL4	MG-4
PHSB-5L	IMPERIAL - FEMALE - LH - 5/16"	SILZP7S	-	-	PHSB-5L	HFL5	MG-5
PHSB-6L	IMPERIAL - FEMALE - LH - 3/8"	SILZP9S	-	-	PHSB-6L	HFL6	MG-6
PHSB-7L	IMPERIAL - FEMALE - LH - 7/16"	SILZP11S	-	-	PHSB-7L	HFL7	MG-7
PHSB-8L	IMPERIAL - FEMALE - LH - 1/2"	SILZP12S	-	-	PHSB-8L	HFL8	MG-8
PHSB-10L	IMPERIAL - FEMALE - LH - 5/8"	SILZP15S	-	-	PHSB-10L	HFL10	MG-10
PHSB-12L	IMPERIAL - FEMALE - LH - 3/4"	SILZP19S	-	-	PHSB-12L	HFL12	MG-12
PHSB-16L	IMPERIAL - FEMALE - LH - 1"	SILZP25S	-	-	PHSB-16L	HFL16	MG-16
POSB-3	IMPERIAL - MALE - RH - 3/16"	SAZP4S	-	-	POSB-3	HM3	MM-3
POSB-4	IMPERIAL - MALE - RH - 1/4"	SAZP6S	-	-	POSB-4	HM4	MM-4
POSB-5	IMPERIAL - MALE - RH - 5/16"	SAZP7S	-	-	POSB-5	HM5	MM-5
POSB-6	IMPERIAL - MALE - RH - 3/8"	SAZP9S	-	-	POSB-6	HM6	MM-6
POSB-7	IMPERIAL - MALE - RH - 7/16"	SAZP11S	-	-	POSB-7	HM7	MM-7
POSB-8	IMPERIAL - MALE - RH - 1/2"	SAZP12S	-	-	POSB-8	HM8	MM-8
POSB-10	IMPERIAL - MALE - RH - 5/8"	SAZP15S	-	-	POSB-10	HM10	MM-10
POSB-12	IMPERIAL - MALE - RH - 3/4"	SAZP19S	-	-	POSB-12	HM12	MM-12
POSB-16	IMPERIAL - MALE - RH - 1"	SAZP25S	-	-	POSB-16	HM16	MM-16
POSB-3L	IMPERIAL - MALE - LH - 3/16"	SALZP4S	-	-	POSB-3L	HML3	MB-3
POSB-4L	IMPERIAL - MALE - LH - 1/4"	SALZP6S	-	-	POSB-4L	HML4	MB-4
POSB-5L	IMPERIAL - MALE - LH - 5/16"	SALZP7S	-	-	POSB-5L	HML5	MB-5
POSB-6L	IMPERIAL - MALE - LH - 3/8"	SALZP9S	-	-	POSB-6L	HML6	MB-6
POSB-7L	IMPERIAL - MALE - LH - 7/16"	SALZP11S	-	-	POSB-7L	HML7	MB-7
POSB-8L	IMPERIAL - MALE - LH - 1/2"	SALZP12S	-	-	POSB-8L	HML8	MB-8
POSB-10L	IMPERIAL - MALE - LH - 5/8"	SALZP15S	-	-	POSB-10L	HML10	MB-10
POSB-12L	IMPERIAL - MALE - LH - 3/4"	SALZP19S	-	-	POSB-12L	HML12	MB-12
POSB-16L	IMPERIAL - MALE - LH - 1"	SALZP25S	-	-	POSB-16L	HML16	MB-16

Rod Ends - Metric

SDTZ Part#	Description	LS Part#	SKF Part#	INA Part#	IKO Part#	Heim Part#	Aurora Part#
PHS-3	METRIC - FEMALE - RH - 3MM	SIBP3S	SIKAC3M	GIKFR3PB	PHS-3	SF3	MW-M3
PHS-4	METRIC - FEMALE - RH - 4MM	SIBP4S	SIKAC4M	GIKFR4PB	PHS-4	SF4	MW-M4
PHS-5	METRIC - FEMALE - RH - 5MM	SIBP5S	SIKAC5M	GIKFR5PB	PHS-5	SF5	MW-M5
PHS-6	METRIC - FEMALE - RH - 6MM	SIBP6S	SIKAC6M	GIKFR6PB	PHS-6	SF6	MW-M6
PHS-8	METRIC - FEMALE - RH - 8MM	SIBP8S	SIKAC8M	GIKFR8PB	PHS-8	SF8	MW-M8Z
PHS-10	METRIC - FEMALE - RH - 10MM	SIBP10S	SIKAC10M	GIKFR10PB	PHS-10	SF10	MW-M10Z
PHS-12	METRIC - FEMALE - RH - 12MM	SIBP12S	SIKAC12M	GIKFR12PB	PHS-12	SF12	MW-M12Z
PHS-14	METRIC - FEMALE - RH - 14MM	SIBP14S	SIKAC14M	GIKFR14PB	PHS-14	SF14	MW-M14Z
PHS-16	METRIC - FEMALE - RH - 16MM	SIBP16S	SIKAC16M	GIKFR16PB	PHS-16	SF16	MW-M16Z
PHS-18	METRIC - FEMALE - RH - 18MM	SIBP18S	SIKAC18M	GIKFR18PB	PHS-18	SF18	MW-M18Z
PHS-20	METRIC - FEMALE - RH - 20MM	SIBP20S	SIKAC20M	GIKFR20PB	PHS-20	SF20	MW-M20Z
PHS-22	METRIC - FEMALE - RH - 22MM	SIBP22S	SIKAC22M	GIKFR22PB	PHS-22	SF22	MW-M22Z
PHS-25	METRIC - FEMALE - RH - 25MM	SIBP25S	SIKAC25M	GIKFR25PB	PHS-25	SF25	MW-M25Z
PHS-3L	METRIC - FEMALE - LH - 3MM	SILBP3S	SILKAC3M	GIKFL3PB	PHS-3L	SFL3	MG-M3
PHS-4L	METRIC - FEMALE - LH - 4MM	SILBP4S	SILKAC4M	GIKFL4PB	PHS-4L	SFL4	MG-M4
PHS-5L	METRIC - FEMALE - LH - 5MM	SILBP5S	SILKAC5M	GIKFL5PB	PHS-5L	SFL5	MG-M5
PHS-6L	METRIC - FEMALE - LH - 6MM	SILBP6S	SILKAC6M	GIKFL6PB	PHS-6L	SFL6	MG-M6
PHS-8L	METRIC - FEMALE - LH - 8MM	SILBP8S	SILKAC8M	GIKFL8PB	PHS-8L	SFL8	MG-M8Z
PHS-10L	METRIC - FEMALE - LH - 10MM	SILBP10S	SILKAC10M	GIKFL10PB	PHS-10L	SFL10	MG-M10Z
PHS-12L	METRIC - FEMALE - LH - 12MM	SILBP12S	SILKAC12M	GIKFL12PB	PHS-12L	SFL12	MG-M12Z
PHS-14L	METRIC - FEMALE - LH - 14MM	SILBP14S	SILKAC14M	GIKFL14PB	PHS-14L	SFL14	MG-M14Z
PHS-16L	METRIC - FEMALE - LH - 16MM	SILBP16S	SILKAC16M	GIKFL16PB	PHS-16L	SFL16	MG-M16Z
PHS-18L	METRIC - FEMALE - LH - 18MM	SILBP18S	SILKAC18M	GIKFL18PB	PHS-18L	SFL18	MG-M18Z
PHS-20L	METRIC - FEMALE - LH - 20MM	SILBP20S	SILKAC20M	GIKFL20PB	PHS-20L	SFL20	MG-M20Z
PHS-22L	METRIC - FEMALE - LH - 22MM	SILBP22S	SILKAC22M	GIKFL22PB	PHS-22L	SFL22	MG-M22Z
PHS-25L	METRIC - FEMALE - LH - 25MM	SILBP25S	SILKAC25M	GIKFL25PB	PHS-25L	SFL25	MG-M25Z
POS-3	METRIC - MALE - RH - 3MM	SABP3S	SAKAC3M	GAKFR3PB	POS-3	SM3	MM-M3
POS-4	METRIC - MALE - RH - 4MM	SABP4S	SAKAC4M	GAKFR4PB	POS-4	SM4	MM-M4
POS-5	METRIC - MALE - RH - 5MM	SABP5S	SAKAC5M	GAKFR5PB	POS-5	SM5	MM-M5
POS-6	METRIC - MALE - RH - 6MM	SABP6S	SAKAC6M	GAKFR6PB	POS-6	SM6	MM-M6
POS-8	METRIC - MALE - RH - 8MM	SABP8S	SAKAC8M	GAKFR8PB	POS-8	SM8	MM-M8Z
POS-10	METRIC - MALE - RH - 10MM	SABP10S	SAKAC10M	GAKFR10PB	POS-10	SM10	MM-M10Z
POS-12	METRIC - MALE - RH - 12MM	SABP12S	SAKAC12M	GAKFR12PB	POS-12	SM12	MM-M12Z
POS-14	METRIC - MALE - RH - 14MM	SABP14S	SAKAC14M	GAKFR14PB	POS-14	SM14	MM-M14Z
POS-16	METRIC - MALE - RH - 16MM	SABP16S	SAKAC16M	GAKFR16PB	POS-16	SM16	MM-M16Z
POS-18	METRIC - MALE - RH - 18MM	SABP18S	SAKAC18M	GAKFR18PB	POS-18	SM18	MM-M18Z
POS-20	METRIC - MALE - RH - 20MM	SABP20S	SAKAC20M	GAKFR20PB	POS-20	SM20	MM-M20Z
POS-22	METRIC - MALE - RH - 22MM	SABP22S	SAKAC22M	GAKFR22PB	POS-22	SM22	MM-M22Z
POS-25	METRIC - MALE - RH - 25MM	SABP25S	SAKAC25M	GAKFR25PB	POS-25	SM25	MM-M25Z
POS-3L	METRIC - MALE - LH - 3MM	SALBP3S	SALKAC3M	GAKFL3PB	POS-3L	SML3	MB-M3
POS-4L	METRIC - MALE - LH - 4MM	SALBP4S	SALKAC4M	GAKFL4PB	POS-4L	SML4	MB-M4
POS-5L	METRIC - MALE - LH - 5MM	SALBP5S	SALKAC5M	GAKFL5PB	POS-5L	SML5	MB-M5
POS-6L	METRIC - MALE - LH - 6MM	SALBP6S	SALKAC6M	GAKFL6PB	POS-6L	SML6	MB-M6
POS-8L	METRIC - MALE - LH - 8MM	SALBP8S	SALKAC8M	GAKFL8PB	POS-8L	SML8	MB-M8Z
POS-10L	METRIC - MALE - LH - 10MM	SALBP10S	SALKAC10M	GAKFL10PB	POS-10L	SML10	MB-M10Z
POS-12L	METRIC - MALE - LH - 12MM	SALBP12S	SALKAC12M	GAKFL12PB	POS-12L	SML12	MB-M12Z

SDTZ Part#	Description	LS Part#	SKF Part#	INA Part#	IKO Part#	Heim Part#	Aurora Part#
POS-14L	METRIC - MALE - LH - 14MM	SALBP14S	SALKAC14M	GAKFL14PB	POS-14L	SML14	MB-M14Z
POS-16L	METRIC - MALE - LH - 16MM	SALBP16S	SALKAC16M	GAKFL16PB	POS-16L	SML16	MB-M16Z
POS-18L	METRIC - MALE - LH - 18MM	SALBP18S	SALKAC18M	GAKFL18PB	POS-18L	SML18	MB-M18Z
POS-20L	METRIC - MALE - LH - 20MM	SALBP20S	SALKAC20M	GAKFL20PB	POS-20L	SML20	MB-M20Z
POS-22L	METRIC - MALE - LH - 22MM	SALBP22S	SALKAC22M	GAKFL22PB	POS-22L	SML22	MB-M22Z
POS-25L	METRIC - MALE - LH - 25MM	SALBP25S	SALKAC25M	GAKFL25PB	POS-25L	SML25	MB-M25Z

Deep Groove Bearings - Imperial

Part #	FAG Part #	RHP Part #	SKF Part #	STEYR Part #
RLS4	LS5	LJ 1/2	RLS4	RLS4
RLS5	LS7	LJ 5/8	RLS5	RLS5
RLS6	LS8	LJ 3/4	RLS6	RLS6
RLS7	LS9	LJ 7/8	RLS7	RLS7
RLS8	LS10	LJ 1 E	RLS8	RLS8
RLS9	LS11	LJ 1 1/8	RLS9	RLS9
RLS10	LS12	LJ 1 1/4	RLS10	RLS10
RLS11	LS12 1/2	LJ 1 3/8	RLS11	RLS11
RLS12	LS13	LJ 1 1/2	RLS12	RLS12
RLS14	LS13 1/2	LJ 1 3/4	RLS14	RLS14
RLS16	LS15	LJ 2 E	RLS16	RLS16
RMS4	MS5	MJ 1/2	RMS4	RMS4
RMS5	MS7	MJ 5/8	RMS5	RMS5
RMS6	MS8	MJ 3/4	RMS6	RMS6
RMS7	MS9	MJ 7/8	RMS7	RMS7
RMS8	MS10	MJ 1 E	RMS8	RMS8
RMS9	MS11	MJ 1 1/8	RMS9	RMS9
RMS10	MS12	MJ 1 1/4	RMS10	RMS10
RMS11	MS12 1/2	MJ 1 3/8	RMS11	RMS11
RMS12	MS13	MJ 1 1/2	RMS12	RMS12

Part #	FAG Part #	SKF Part #	MRC Part #	FAFNIR Part #
R2	R-2	EE0	R-2	33-K-3
R3	R-3	EE1	R-3	33-K-5
R4	R-4	EE2	R-4	S-1-K-7
R6	R-6	EE3	R-6	S-3-K
R8	R-8	EE4	R-8	S-5-K
R10	R-10	EE5	R-10	S-7-K
R12	R-12	EE6	R-12	S-8-K
EE7	-	-	-	-
R14	R-14	EE8	R-14	S-9-K
R16	R-16	EE9	R-16	S-10-K
R18	R-18	EE10	R-18	S-11-K
R20	R-20	EE11	R-20	S-12-K
R4A	R-4-A	-	R-4-A	S-1-K

Finer Part #	W208PP5	W208PPB6	W208PPB8	W208PPB12	W211PP3		W211PPB3	W211PP5	W211PP30	W211PPB30	W211PP34	W211PPB2
GB Part #	W208PP5	W208PPB6	W208PPB8	W208PPB12	W211PP3		W211PPB3	W211PP5	W211PP30	W211PPB30	W211PP34	W211PPB2
FAG / BCA Part #	DC208TT5	DS208TT6	DS208TT8	DS208TT12	DC211TT3		DS211TT3	DC211TT5	DC211TT40A	-	DC211TT40	DS211TT2
FAFNIR Part #	W208PP5	W208PPB6	W208PPB8	W208PPB12	W211PP3		W211PPB3	W211PP5	W211PP30	W211PPB30	W211PP34	W211PPB2
FEDERAL Part #	TN208S1	TN5208S	TS208S1	TSC208S1A	TW211SY		TWS211S4	T211S4A	-	-	-	TSW211A
RHP Part #	2/DF240/9	2/DNF240/8	PDNF240/9	41/PDNF240/9B	PDF155/12		PDNF155/12	37/PDF255/12	PDF155/12A	PDNF155/12A	48/PDF255/12A	PDNF155-2 3/16
NTN Part #	5AS08-1 1/8	1AS08-1	2AS08-1 1/8	4AS08-1 1/8	7AS11-1 1/2		3AS11-1 1/2	6AS11-1 1/2V1	-	-	-	3AC11-2 3/16
LINK BELT Part #	W208PP5	W208PPB6	-	W208PPB12	W211PP3		W211PPB3	-	-	-	-	W211PPB2
INA Part #	W208PP3AH05	GW208PPB3AH06	-	-	-		W211PPB3AH02	-	-	-	-	-
NDH Part #	AS4508BH	AS4508BK	AS4508EF	AS4508BC	AS4511BD		AS4511BE	AS4511AE				
SKF Part #	W208-PP5	W208-PPB6	W208-PPB8	W208PPB12	W211PP3		W211-PPB3	W211PP5	-	-	-	W211PPB2
KOYO Part #	4508A2TR18SC7	4508B2TR16S	-	4508B2TR18S1	4511C2TR24SC		-	4511B2TR24SC	-	-	-	4511C2TR35R
OTHER Part #	208A3TT-1	-	"TC25-18S	-	-		211B3TTC-1	-	-	-	-	TS35-35
SHAFT SIZE	1 1/8	1	1 1/8	1 1/8	1 1/2		1 1/2	1 1/2	40mm	40mm	40mm	2 3/16
NOTES	O.D	80mm (P)	80mm (S)	80mm (S)	87mm (S)		100mm (S)	4.000" (P)	100mm (P)	100mm (S)	4.000"	100mm (S)
	I.R	1.437"	1.437"	1.437"	1.437"		1.312"	1.750"	1.312"	1.312"	-	1.312"
	O.R	18mm	18mm	1.187"	1.187"		1.312"	1.437"	0.9375"	25mm	-	1.312"

IKO	KOYO/TOR	INA	FAG	SKF	MCGILL	Description
AS	AS	AS	AS	AS	-	NR - Thrust Washer
AZK	-	K	K	K	-	NR - Thrust Cage & Roller
BA	J	SCE	-	-	-	NR - Shell Type w/Oil Hole
BHA	JH	SCH	-	-	-	NR HD - Shell Type w/Oil Hole
BR	HJ	NCS	-	-	MR	NR - w/o Inner Ring
CF...	-	KR...X	KR...DZ	KR...X	MCFR...X	-
CF...B	-	KR...XSK	-	KR...XSK	MCFR...BX	CF - Hex Sealed cyl. Outer Ring
CF...BR	-	KR...SK	-	KR...SK	MCFR...B	CF - Hex Sealed Crowned Outer Ring
CF...FB	-	-	-	-	-	CF - Stainless Steel Hex Sealed Cyl. Outer ring
CF...FBR	-	-	-	-	-	CF - Stainless Steel Hex Sealed Crowned Outer ring
CF...R	-	KR	KR	KR	MCFR	-
CF...V	-	KRV...X	-	KRV...X	MCF...X	-
CF...VB	-	KRV...XSK	-	KRV...XSK	MCF...BX	CF - Full Comp Hex Sealed, cyl. Outer Ring
CF...VBR	-	KRV...SK	-	KRV...SK	MCF...B	CF - Full Comp Hex Sealed, Crowned. Outer Ring
CF...VR	-	KRV	-	KRV	MCF	-
CFE	-	KRE...X	-	-	-	-
CFE...B	-	KRE...XSK	-	-	-	CF - Eccentric Collar, Hex, Sealed Cyl. Outer Ring
CFE...BR	-	KRE...SK	-	-	-	CF - Eccentric Collar, Hex, Sealed Crowned. Outer Ring
CFE...R	-	KRE	-	-	-	-
CFE...V	-	KRVE...X	-	-	-	-
CFE...VB	-	KRVE...XSK	-	-	-	CF - Eccentric Collar, Hex, Sealed Cyl. Outer Ring
CFE...VBR	-	KRVE...SK	-	-	-	CF - Eccentric Collar, Full comp, Hex, Sealed Crowned. Outer Ring
CFE...VR	-	KRVE	-	-	-	-
CR...	-	CFC	-	-	-	-
CR...B	-	CFC...SK	-	-	-	CF - Hex Sealed, cyl. Outer Ring
CR...BR	-	CFC...YSK	-	-	-	CF - Hex Sealed, Crowned Outer Ring
CR...R	-	CFC...Y	-	-	-	-
CR...V	CR	CF	-	-	CF	CF - Full Comp Slotted, Sealed Cyl. Outer Ring
CR...VB	CRB	CF...SK	-	-	CF...B	CF - Full Comp, HEX, sealed Cyl. Outer ring
CR...VBR	CRBC	CF...YSK	-	-	CCF...B	CF - Full comp, HEX, sealed Crowned Outer ring
CR...VR	CRC	CF...Y	-	-	CCF	-
CRH...VB	-	-	-	-	CFH...B	CF - Full Comp, HD hex Sealed, cyl Outer Ring
CRH...VBR	-	-	-	-	CCFH...B	CF - Full Comp, HD hex Sealed, Crowned Outer Ring
CRY...V	-	-	-	-	CYR	RF - Non Sep, Full Comp, Sealed cyl. Outer Ring
CRY...VR	-	-	-	-	CCYR	RF - Non Sep, Full Comp, Sealed Crowned. Outer Ring
GBR	-	-	-	-	GR	-
GS	GS	GS	GS	GS	-	NR - Thrust, Outer ring/Housing Washer
IRB	IR	SI	-	-	-	NR - Shell Type - Inner Ring
IRT	JR	IR	JR	IR	-	NR - Shell Type - Inner Ring
KT	FWJV	K	K	K	-	NR - Cage
KT...EG	-	KZK	K...FV	KZK	-	-
KTV...EG	-	KBK	K...FKIV	KBK	-	-
LRB	IR	PI	-	-	MI	NR - Machined, Inner Ring
LRBZ	IR	-	-	-	MI	-
LRT	JR	IR	JR	IR	-	NR - Machined - Inner Ring
LRTZ	JRZ	IR	JRZ	IRZ	-	NR - Machined - Inner Ring
NA	NA	NA	NA	NA	-	NR - Machined - Inner Ring
NAF	-	NAO	NAO	NAO	-	-
NART...R	NATR	NATR	NATR	NATR	MCYRR	RF - Non - Sep, sealed, Crowned Outer Ring
NART...VR	-	NATV	-	NATV	MCYR	RF - Non Sep, Full Comp, Sealed Crowned outer Ring
NAS...NR	DC	SL04	NNF	-	-	Full Comp Sheave Roller Sealed Snap Ring
NAST	STO...DZ	STO...X	STO...DZ	STO...X	-	RF - sep. w/Inner Ring, Crowned Outer Ring
NAST...R	STO	STO	STO	STO	-	RF - sep w/ Inner Ring, Sealed, Crowned Outer Ring
NATA	-	NKIA	NKJA	NKIA	-	Comb NR with Angular Contact
NATB	-	NKIB	NKJB	NKIB	-	Comb NR with 3-Point Contact

IKO	KOYO/TOR	INA	FAG	SKF	MCGILL	Description
NAX	-	NKX	NAXK	NKX	-	-
NAX...Z	-	NKX...Z	NAXK...Z	NKX...Z	-	-
NBX	-	NKXR	NAXR	NKXR	-	-
NBX...Z	-	NKXR...Z	NAXR...Z	NKXR...Z	-	-
NTB	AXK	AXK	AXK	AXK	-	NR - Thrust
NUCF...R	-	NUKR	-	-	MCFD	CF - Cyl. Roller, Hex Crowned Outer Ring
NURT	-	NUTR...X	-	-	MCYRD...X	RF - Full comp, cyl. Roller, cyl outer ring
NURT...R	-	NUTR	-	-	MCYRD	RF - Full comp, cyl. Roller, crowned outer ring
RNA	RNA	RNA	RNA	RNA	-	NR w/o Inner Ring
RNAF	-	RNAO	RNAO	RNAO	-	-
TAF	NK	NK	NK	NK	-	NR - Machined w/o Inner Ring
TAFI	NKJ	NKI	NKJ	NKI	-	NR - Machined wit Inner Ring
TLA	HK	HK	HK	-	-	NR - Shell type
TLAM	BK	BK	BK	BK	-	NR - Shell type, closed end
WS	WS	WS	WS	WS	-	NR - Thrust, inner ring, Shaft washer
YB	Y	SN	-	-	-	-
UU*	2RS	2RS / PP	2RS / 2LS	2RS	SS	Sealed
NB. Suffix	-	-	-	-	-	-

NBR	FYH	UNIVERSAL	ASAHI	NSK	NACHI	KOYO		NTN	RHP	SKF	DESCRIPTION
UC	UC	UC	UC	UC	UC	UC		UC	1000G	YAR	SPHERICAL - GRUB SCREW, WIDE INNER RING TWO SIDES
SB	SB	SB	B	UB	B	SB		AS	1200	UB	SPHERICAL - GRUB SCREW, WIDE INNER RING ONE SIDE
SA	SA	SA	KH	EN	FH	SA		AEL	1200EC	YET	SPHERICAL - LOCK COLLAR, WIDE INNER RING ONE SIDE
NA	NA	NA	FG/UG	EW	FG/HC	HA		UEL	1000ECG	YEL	SPHERICAL - LOCK COLLAR, WIDE INNER RING TWO SIDES
SER	ER	UR	SER	UR	ER	ER		UCS	1100G	ER	CYLINDRICAL - GRUB SCREW, WIDE INNER RING TWO SIDES
CS	-	CS	-	-	-	-		-	-	-	SPHERICAL - DEEP GROOVE BEARING
CSA	SAA	CSA	KHR	ENR		SAA		AELS	1300EC	ENR	CYLINDRICAL - LOCK COLLAR, WIDE INNER RING ONE SIDE
UCX	UCX	UCX	UCX	UCX	UCX	UCX		UCX	1000G	UCX	SPHERICAL - GRUB SCREW, WIDE INNER RING ONE SIDE
UK	UK	UK	UK	UK	UK	UK		UK	1000KG	UK	SPHERICAL - TAPER BORE
UG/R3	-	UC-R3	-	-	-	-		UC-LLS	T1000G	-	SPHERICAL - TRIPLE LIP SEAL, WIDE INNER RING ONE SIDE
	-		-	-	-	-		UR*		-	*COULD ALSO BE SAME AS ABOVE*

Bore Size Cross Reference

Finer Part No	Other Part No	Bore Size	Example
-12	012	3/4"	UC204-12
-14	014	7/8"	UC204-14
-16	100	1"	UC205-16
-19	103	1-3/16"	UC206-19
-20	104	1-1/4"	UC207-20
-22	106	1-3/8"	UC207-22
-23	107	1-7/16"	UC207-23
-24	108	1-1/2"	UC208-24
-26	110	1-5/8"	UC209-26
-28	112	1 1/4	UC209-28
-32	200	2"	UC211-32
-36	204	2-1/4"	UC212-36
-39	207	2-7/16"	UC213-39
-40	208	2-1/2"	UC213-40
-43	211	2-11/16"	UC214-43
-44	212	2-3/4"	UC214-44
-47	215	2-15/16"	UC215-47
-48	300	3"	UC215-48
-52	304	3-1/4"	UC217-52
-56	308	3-1/2"	UC218-56

NBR	FYH	UNIVERSAL	ASAHI	NSK	NACHI	KOYO		NTN	FAG	RHP	SKF	DESCRIPTION
P000	P000	P000	P000	-	-	-		-	-	-	-	EXTRA LIGHT PILLOW BLOCK (ZINC ALLOY)
P200	P200	P200	P200	P200	P200	P200		P200	P200	NP	SY500	LIGHT PILLOW BLOCK (CAST IRON)
PX00	PX00	PX00	PX00	PX00	PX00	PX00		PX00	-	MP	PX00	MEDIUM PILLOW BLOCK (CAST IRON)
P300	P300	P300	P300	P300	P300	-		P300	-	-	P300	HEAVY PILLOW BLOCK (CAST IRON)
F200	F200	F200	F200	F200	F200	F200		F200	F200	SF	FY500	LIGHT FOUR BOLT FLANGE (CAST IRON)
FX00	FX00	FX00	FX00	FX00	FX00	FX00		FX00	-	MSF	FX00	MEDIUM FOUR BOLT FLANGE (CAST IRON)
F300	F300	F300	F300	F300	F300	-		F300	-	-	F300	HEAVY FOUR BOLT FLANGE (CAST IRON)
FL000	FL000	FL000	FL000	-	-	-		-	-	-	-	EXTRA LIGHT TWO BOLT FLANGE (ZINC ALLOY)
FL200	FL200	FL200	FL200	FL200	FL200	FL200		FL200	FL200	SFT	FYTB500	LIGHT TWO BOLT FLANGE (CAST IRON)
FC200	FC200	FC200	FC200	FC200	FC200	FC200		FC200	FC200		FYC200	LIGHT FOUR BOLT SPIGOTTED FLANGE (CAST IRON)
FCX00	FCX00	FCX00	FCX00	FCX00	FCX00	FCX00		FCX00	-	MFC	FCX00	MEDIUM FOUR BOLT SPIGOTTED FLANGE (CAST IRON)
C200	-	C200	C200	C200	C200	C200		C200	-	SLC	C200	LIGHT CARTRIDGE (CAST IRON)
FB200	FB200	FB200	FK200	FK200	FK200	FK200		FH200	-		FK200	LIGHT THREE BOLT OFFSET FLANGE (CAST IRON)
LF200	LF200	LF200	LFL200	LF200	LF200	LF200		FB200	-	LFTC	LF200	EXTRA LIGHT TWO BOLT FLANGE (CAST IRON)
PA200	PA200	PA200	PA200	PA200	PA200	PA200		UP200	-	SNP	PA200	LIGHT TAPPED BASE PILLOW BLOCK (CAST IRON)
SBH200	-	SB200	-	SB200	-	-		SB200	-			MEDIUM SAW BENCH PILLOW BLOCK (CAST IRON)
T200	T200	T200	T200	T200	T200	T200		T200	-	ST	TU500	LIGHT TAKE-UP BLOCK (CAST IRON)
PP200	-	PP200	PP200	PP200	PP200	PP200		PP200	-	LPB	PBST	EXTRA LIGHT PILLOW BLOCK (PRESSED STEEL)
PF200	-	PF200	PF200	PF200	PF200	PF200		PF200	-	SLFE	MS	EXTRA LIGHT ROUND FLANGE (PRESSED STEEL)
PFL200	-	PFL200	PFL200	PFL200	PFL200	PFL200		PFL200	-	SLFL	MST	EXTRA LIGHT TWO BOLT FLANGE (PRESSED STEEL)
PL-P	-	PL-P	-	-	-	-		-	-	PNP	SYK	THERMO-PLASTIC PILLOW BLOCK
PL-F	-	PL-F	-	-	-	-		-	-	PSF	FYK	THERMO-PLASTIC FOUR BOLT FLANGE
PL-FL	-	PL-FL	-	-	-	-		-	-	PSFT	TYTBK	TWO BOLT FLANGE (THERMO-PLASTIC)
PL-PA	-	PL-PA	-	-	-	-		-	-	PSNP	-	TAPPED BASE PILLOW BLOCK (THERMO-PLASTIC)
PL-T	-	PL-T	-	-	-	-		-	-	PST	-	TAKE-UP BLOCK (THERMO-PLASTIC)
SS-P200	-	S-P	-	-	-	-		-	-	-	-	PILLOW BLOCK (STAINLESS STEEL)
SS-F200	-	S-F	-	-	-	-		-	-	-	-	FOUR BOLT FLANGE (STAINLESS STEEL)
SS-FL200	-	S-FL	-	-	-	-		-	-	-	-	TWO BOLT FLANGE (STAINLESS STEEL)
SS-T200	-	S-T	-	-	-	-		-	-	-	-	TAKE-UP BLOCK (STAINLESS STEEL)

PREMIUM UNIVERSAL JOINTS	
ALTERNATE PART NUMBERS	GMB PART NUMBERS
114-1004	6R
114-2101	114-2101
114-2110	MC-2011
114-2111	MC-2071
114-2501	GUT-27
114-3103	MC-3020
114-3105	114-3105
114-4100	MC-4010
114-5177	MC-5030
114-6114	114-6102
114-6128	G5-6106X
114-7102	MC-7050
114-7126	G5-7105X
114-7205	GUIS-60
114-8113	114-8113
114-8516	GUKO-8
5-155X	G5-155X
5-170X	G5-170X
5-178X	G5-178X
5-178XHD	5-178-4X
5-188X	GU-2300
5-279X	G5-279X
5-280X	G5-280X
5-281X	G5-281X
5-297X	G5-297X
5-330X	G5-330X
5-433-1X	G5-153XB0
5-618XD	GUN-54
CP35N-3	35R
CP55N	55N
K5-13XR	G5-153X
K5-A18R	GU-2200
K5-A510	GUMZ-2
K5-A517	GUT-19
K5-A522	GUD-84
K5-A530	G5-353X
K5-A532	GU-410
K5-A536	GU-2050
K5-A539	GU-350L
K5-A546	GU-350A
K5-A551	GUN-44
K5-A556	GUM-81
K5-A557	GUHO-2
K5-A563	GUM-75
K5-A587	GUA-1
K5-A588	GUA-3
K5-A589	GUA-4
K5-A591	GUA-11
K5-A592	GUA-14
K5-A593	GUA-20
K5-A594	GUA-21
K5-A596	GU-3840
K5-A611	GU-7420SPR
K5-A612	GU-7430

PREMIUM UNIVERSAL JOINTS	
ALTERNATE PART NUMBERS	GMB PART NUMBERS
K5-A64	GU-500
K5-A649	GUS-6
K5-A666	ST-1639
K5-A753	GUIS-72
K5-A757	GU-1100SP
K5-A842	GUM-100
K5-GB10R	GU-2000
K5-LGB36R	GU-1100
K5-LGB80R	GUIS-56
RUJ-0603	S800
RUJ-1500	GUMZ-10
RUJ-1501	GUM-95
RUJ-1700	GUN-46
RUJ-1764	GU-5960
RUJ-1780	GUN-28
RUJ-1781	GUN-27
RUJ-1784	GUMZ-7
RUJ-1786	RUJ-1786P
RUJ-1795	GUS-1
RUJ-2016	GUT-12
RUJ-2023	GUMZ-6
RUJ-2028	GUN-29
RUJ-2030	RUJ-2030
RUJ-2032	G5-2140X
RUJ-2033	GUIS-71
RUJ-2034	G5-2173X
RUJ-2036	GUIS-52
RUJ-2038	RUJ-2038
RUJ-2039	RUJ-2039
RUJ-2041	GUT-20
RUJ-2041HD	GUT-20
RUJ-2045	GUM-88
RUJ-2046	MC-2021
RUJ-2049	GUMZ-9
RUJ-2050	GU-7280
RUJ-2100	GUT-21B0
RUJ-2109	GUT-21
RUJ-2109HD	GUT-23
RUJ-2500	RUJ-2500
RUJ-2503	RUJ-2503
RUJ-3002	G5-1203X
RUJ-3003	GUMZ-3
RUJ-3006	GUM-93
RUJ-3007	GUN-35
RUJ-3011	GUIS-74
RUJ-4000	MC-4100
RUJ-4005	MC-4070
RUJ-4010	GUM-99
RUJ-5001	GU-7470
RUJ-7002	MC-7090

ECONOMY UNIVERSAL JOINTS	
ALTERNATE PART NUMBERS	NBR PART NUMBERS
A010	K5-A589
A026	K5-A595
A035	K5-A592
A036	K5-A593
A110	K5-A588
A165	K5-A546
A220	K5-A64
A222	RUJ-1788
A311	K5-A590
A421	K5-LGB36R
A500	K5-A591
A600	K5-A18R
A622	K5-A18RA
A700	K5-A536
A723	K5-GB10R
A7N	K5-A693
A824	K5-A538
AM35	CP-35N-1
AM55	CP-55N
-	5-170X
-	5-178X
-	K5-13XR
-	K5-LGB80R
-	RUJ-2038
-	RUJ-2041
-	RUJ-2109
-	RUJ-3002

Products & Various Interchange Charts	Category	Reference	Products & Various Interchange Charts	Category	Reference
H200 series - FYH	Adapter Sleeves	7.2.72	FCX00 Series - NBR	Bearing Housings	8.1.48
H200 Series - NBR	Adapter Sleeves	8.1.81	FD200 Series - NBR	Bearing Housings	8.1.40
H2300 series - FYH	Adapter Sleeves	7.2.74	FL000 Silver Series - FYH	Bearing Housings	7.2.62
H2300 Series - NBR	Adapter Sleeves	8.1.82	FL000 Silver Series - NBR	Bearing Housings	8.1.49
H300 Series - FYH	Adapter Sleeves	7.2.73	FL200 Series - FYH	Bearing Housings	7.2.54
H300 Series - NBR	Adapter Sleeves	8.1.81	FL200 Series - NBR	Bearing Housings	8.1.40
H3000 series - FYH	Adapter Sleeves	7.2.75	FL200 Stainless Steel Series - NBR	Bearing Housings	8.1.76
H3000 Series - NBR	Adapter Sleeves	8.1.83	FL300 Series - FYH	Bearing Housings	7.2.56
H3100 series - FYH	Adapter Sleeves	7.2.76	FX00 Series - FYH	Bearing Housings	7.2.50
H3100 Series - NBR	Adapter Sleeves	8.1.83	FX00 Series - NBR	Bearing Housings	8.1.47
HE200 series - FYH	Adapter Sleeves	7.2.77	HA200 Series - NBR	Bearing Housings	8.1.43
HE200 Series - NBR	Adapter Sleeves	8.1.84	Interchange Chart - WIR Housings - NBR	Bearing Housings	8.1.97
HE2300 series - FYH	Adapter Sleeves	7.2.79	LF200 Series - FYH	Bearing Housings	7.2.52
HE2300 Series - NBR	Adapter Sleeves	8.1.85	LF200 Series - NBR	Bearing Housings	8.1.41
HE300 series - FYH	Adapter Sleeves	7.2.78	P000 Silver Series - FYH	Bearing Housings	7.2.60
HE300 Series - NBR	Adapter Sleeves	8.1.84	P000 Silver Series - NBR	Bearing Housings	8.1.49
Anti Vibration Mounts	Anti Vibration Mounts	9.2.4	P200 Series - FYH	Bearing Housings	7.2.38
UCF200 Series - NBR	Bearing & Housing Units	8.1.54	P200 Series - NBR	Bearing Housings	8.1.36
UCFL200 Series - NBR	Bearing & Housing Units	8.1.55	P200 Stainless Steel Series - NBR	Bearing Housings	8.1.75
UCP200 Series - NBR	Bearing & Housing Units	8.1.53	P300 Series - FYH	Bearing Housings	7.2.40
UP000 ER Silver Series - NBR	Bearing & Housing Units	8.1.56	P300 Series - NBR	Bearing Housings	8.1.37
UP000 Silver Series - NBR	Bearing & Housing Units	8.1.56	PA200 Series - FYH	Bearing Housings	7.2.46
Adapter Sleeves - NBR	Bearing Accessories	8.1.81	PA200 Series - NBR	Bearing Housings	8.1.42
Back Seals for Thermoplastic Housings - NBR	Bearing Accessories	8.1.88	PF200 Pressed Metal Series - NBR	Bearing Housings	8.1.51
Bearing Accessories - NBR	Bearing Accessories	8.1.89	PFL200 Pressed Metal Series - NBR	Bearing Housings	8.1.50
Dust Cap to suit 45mm/1-3/4 Axle - NBR	Bearing Accessories	8.1.89	PFT200 Pressed Metal Series - NBR	Bearing Housings	8.1.50
End Caps for Plummer Block Housings - NBR	Bearing Accessories	8.1.89	PL-F200 Series - Thermoplastic - NBR	Bearing Housings	8.1.78
KM & MB Series - NBR	Bearing Accessories	8.1.86	PL-FB200 Series - Thermoplastic - NBR	Bearing Housings	8.1.80
Lock Nuts & Tab Washers - NBR	Bearing Accessories	8.1.86	PL-FL200 Series - Thermoplastic - NBR	Bearing Housings	8.1.79
Open Caps for Thermoplastic Housings - NBR	Bearing Accessories	8.1.89	PL-P200 Series - Thermoplastic - NBR	Bearing Housings	8.1.78
Rubber Inserts for Pressed Metal Housings - NBR	Bearing Accessories	8.1.89	PL-PA200 Series - Thermoplastic - NBR	Bearing Housings	8.1.80
Spacer Rings - NBR	Bearing Accessories	8.1.89	PL-T200 Series - Thermoplastic - NBR	Bearing Housings	8.1.79
TSNG Seals for SNK Plummer Block Housings - NBR	Bearing Accessories	8.1.69	Plummer Block Housings - NBR	Bearing Housings	8.1.66
TSNG Seals for SNK Plummer Block Housings - NBR	Bearing Accessories	8.1.89	PP200 Pressed Metal Series - NBR	Bearing Housings	8.1.51
U-Seals - NBR	Bearing Accessories	8.1.89	PX00 Series - FYH	Bearing Housings	7.2.48
V Rings for Plummer Block Housings - NBR	Bearing Accessories	8.1.89	PX00 Series - NBR	Bearing Housings	8.1.46
Bearing & Housings Chart - NBR	Bearing Housings	8.1.69	SBH200 Series - NBR	Bearing Housings	8.1.44
C200 Series - NBR	Bearing Housings	8.1.45	SN500 Series - NBR	Bearing Housings	8.1.66
F200 Series - FYH	Bearing Housings	7.2.42	SNK500 Series - NBR	Bearing Housings	8.1.67
F200 Series - NBR	Bearing Housings	8.1.38	T200 Series - FYH	Bearing Housings	7.2.68
F200 Stainless Steel Series - NBR	Bearing Housings	8.1.75	T200 Series - NBR	Bearing Housings	8.1.41
F300 Series - FYH	Bearing Housings	7.2.44	T200 Stainless Steel Series - NBR	Bearing Housings	8.1.76
F300 Series - NBR	Bearing Housings	8.1.39	T300 Series - FYH	Bearing Housings	7.2.70
FA200 Series - NBR	Bearing Housings	8.1.42	Thermoplastic Bearing Housings - NBR	Bearing Housings	8.1.78
FB200 Series - FYH	Bearing Housings	7.2.58	UFL000 ER Silver Series (KFL) - NBR	Bearing Housings	8.1.52
FB200 Series - NBR	Bearing Housings	8.1.43	UFL000 Silver Series (KFL) - NBR	Bearing Housings	8.1.52
FB200 Stainless Steel Series - NBR	Bearing Housings	8.1.77	CS200 Series - NBR	Bearing Inserts	8.1.22
FC200 Series - FYH	Bearing Housings	7.2.64	CSA200 Series - NBR	Bearing Inserts	8.1.32
FC200 Series - NBR	Bearing Housings	8.1.44	NA200 Series - FYH	Bearing Inserts	7.2.8
FCM Series - NBR	Bearing Housings	8.1.68	NA200 Series - NBR	Bearing Inserts	8.1.34
FCT200 Series - NBR	Bearing Housings	8.1.48	NA200 Triple Lip Series - NBR	Bearing Inserts	8.1.34
FCX00 Series - FYH	Bearing Housings	7.2.66	SA200 Series - FYH	Bearing Inserts	7.2.12

Products & Various Interchange Charts	Category	Reference	Products & Various Interchange Charts	Category	Reference
SA200 Series - NBR	Bearing Inserts	8.1.30	Cylindrical Roller Thrust Bearings- KOYO	Bearings	6.1.70
SAA200 Series - FYH	Bearing Inserts	7.2.14	Deep Groove Ball - Non-Standard Bores - Japanese	Bearings	7.5.6
SB200 Series - FYH	Bearing Inserts	7.2.16	Deep Groove Ball Bearings - Imperial Interchange Chart	Bearings	7.5.9
SB200 Series - NBR	Bearing Inserts	8.1.31	Deep Groove Ball Bearings - KOYO	Bearings	6.1.4
SB200 Stainless Steel Series - NBR	Bearing Inserts	8.1.74	Deep Groove Ball Bearings - Nachi	Bearings	5.1.4
SBB200 Series - FYH	Bearing Inserts	7.2.16	Deep Groove Ball Bearings - NBR	Bearings	8.1.6
SC200 Series - FYH	Bearing Inserts	7.2.18	Deep Groove Hex Bore Ball Bearings - NBR	Bearings	8.1.57
SER200 Series - NBR	Bearing Inserts	8.1.33	Deep Groove Round Bore Ball Bearings - NBR	Bearings	8.1.58
SER200/ER200 Series - FYH	Bearing Inserts	7.2.26	Disc Harrow Bearings - Disc Harrow Units - NBR	Bearings	8.1.65
SU000 Silver Series - FYH	Bearing Inserts	7.2.18	Disc Harrow Bearings - Hex Bore Greaseable - NBR	Bearings	8.1.64
U000 Silver Series - NBR	Bearing Inserts	8.1.35	Disc Harrow Bearings - Hex Bore Non-Greaseable - NBR	Bearings	8.1.64
U000ER Silver Series - NBR	Bearing Inserts	8.1.35	Disc Harrow Bearings - Round Bore Greaseable - NBR	Bearings	8.1.60
UC200 Series - FYH	Bearing Inserts	7.2.6	Disc Harrow Bearings - Round Bore Non-Greaseable - NBR	Bearings	8.1.59
UC200 Series - NBR	Bearing Inserts	8.1.23	Disc Harrow Bearings - Square Bore Greaseable - NBR	Bearings	8.1.62
UC200 Stainless Steel Series - FYH	Bearing Inserts	7.2.30	Disc Harrow Bearings - Square Bore Non-Greaseable - NBR	Bearings	8.1.61
UC200 Stainless Steel Series - NBR	Bearing Inserts	8.1.73	Double Row Angular Contact Ball Bearings - NBR	Bearings	8.1.15
UC200 Triple Lip Series - FYH	Bearing Inserts	7.2.20	Double Row Cylindrical Roller Bearings - Nachi	Bearings	5.1.54
UC200 Triple Lip Series - NBR	Bearing Inserts	8.1.26	Double Row Self Aligning Ball Bearings - Nachi	Bearings	5.1.70
UC300 Series - FYH	Bearing Inserts	7.2.24	Imperial Ball Bearings - EZO	Bearings	7.1.6
UC300 Series - NBR	Bearing Inserts	8.1.25	Interchange Chart - Bore Size Cross Reference - NBR	Bearings	8.1.95
UCX00 Series - FYH	Bearing Inserts	7.2.28	Interchange Chart - Deep Groove Ball Bearings - Imperial - NBR	Bearings	8.1.91
UCX00 Series - NBR	Bearing Inserts	8.1.29	Interchange Chart - Disc Harrow Bearings - NBR	Bearings	8.1.91
UK200 Series - FYH	Bearing Inserts	7.2.32	Interchange Chart - Spherical Plain Brgs & Rod Ends	Bearings	7.4.120
UK200 Series - NBR	Bearing Inserts	8.1.27	Interchange Chart - Tapered Roller Bearings - NBR	Bearings	8.1.90
UK300 Series - FYH	Bearing Inserts	7.2.34	Interchange Chart - WIR Bearings - NBR	Bearings	8.1.95
UK300 Series - NBR	Bearing Inserts	8.1.28	Interchange Charts - FYH	Bearings	7.2.80
UKX00 Series - FYH	Bearing Inserts	7.2.36	Interchange Charts - KOYO	Bearings	6.1.169
Agricultural Bearings - NBR	Bearings	8.1.57	Miniature Bearings - Metric - EZO	Bearings	7.1.4
Agricultural Planter Bearings - KOYO	Bearings	6.1.80	Miniature Series - KOYO	Bearings	6.1.14
Angular Contact Ball Bearings - Nachi	Bearings	5.1.64	Needle Roller Bearings - Japanese	Bearings	7.4.6
Angular Contact Ball Bearings - NBR	Bearings	8.1.13	Needle Roller Thrust Bearings- KOYO	Bearings	6.1.122
Angular Contact Ball Bearings- KOYO	Bearings	6.1.75	Premium Ball Bearings - Imperial - Japanese	Bearings	7.5.4
Automotive Angular Contact Bearings - KOYO	Bearings	6.1.162	Roller Followers - Japanese	Bearings	7.4.92
Automotive Ball Bearings - KOYO	Bearings	6.1.164	Roller Followers - KOYO	Bearings	6.1.152
Automotive Bearings - KOYO	Bearings	6.1.162	Self Aligning Ball Bearings - NBR	Bearings	8.1.18
Automotive Bearings - Nachi	Bearings	5.1.76	Self Aligning Ball Bearings- KOYO	Bearings	6.1.82
Automotive Clutch Release Bearings - KOYO	Bearings	6.1.165	Spherical Roller Bearings - Nachi	Bearings	5.1.34
Automotive Cylindrical Roller Bearings - Gearbox - KOYO	Bearings	6.1.165	Spherical Roller Bearings- KOYO	Bearings	6.1.54
Automotive Hub Units - KOYO	Bearings	6.1.168	Spherical Roller Thrust Bearings - Nachi	Bearings	5.1.48
Automotive Needle Roller Bearings - KOYO	Bearings	6.1.166	Stainless Steel Ball Bearings - NBR	Bearings	8.1.71
Automotive Taper Roller Bearings - KOYO	Bearings	6.1.163	Stainless Steel Balls - NBR	Bearings	8.1.88
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WIR Bearings - NBR	Bearings	8.1.22	600-620-630 Series - NBR	Bearings - Deep Groove	8.1.9
WIR Housings - FYH	Bearings	7.2.82	6000 Series - KOYO	Bearings - Deep Groove	6.1.4
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5200-5300 Series - Nachi	Bearings - Angular Contact	5.1.64	6000-6200-6300 Open Series - KOYO	Bearings - Deep Groove	6.1.22
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7200 Series - NBR	Bearings - Angular Contact	8.1.13	6200 Series - Non Standard Bore - NBR	Bearings - Deep Groove	8.1.11
7200-7300 Series - Nachi	Bearings - Angular Contact	5.1.68	6200 Series w/Snap Ring - Nachi	Bearings - Deep Groove	5.1.10
7300 Series - NBR	Bearings - Angular Contact	8.1.14	6200 Stainless Steel Series - EZO	Bearings - Deep Groove	7.1.8
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Bronze Bushes - Metric	Bearings - Bushes	8.3.6	6300 Series - Nachi	Bearings - Deep Groove	5.1.12
Flanged Plain Sintered Bronze Bushes - Metric	Bearings - Bushes	8.3.11	6300 Series - KOYO	Bearings - Deep Groove	6.1.8
Flanged Sintered Bronze Bushes - Imperial	Bearings - Bushes	8.3.9	6300 Series w/Snap Ring - Nachi	Bearings - Deep Groove	5.1.14
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Metric Glacier Bushes	Bearings - Bushes	8.2.6	680-690 Series - NBR	Bearings - Deep Groove	8.1.10
Metric PTFE Lined Glacier Bushes (Lined)	Bearings - Bushes	8.2.10	680-690 Stainless Steel Series - EZO	Bearings - Deep Groove	7.1.10
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BH Heavy Series- KOYO	Bearings - Needle Roller	6.1.116	NTB Series & AS Washers To Suit - Japanese	Bearings - Needle Roller	7.4.66
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Needle Roller Shell Type (Drawn Cup) - Metric- KOYO	Bearings - Needle Roller	6.1.88	30200 Series - Nachi	Bearings - Tapered Roller	5.1.22
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32200 Series - NBR	Bearings - Tapered Roller	8.1.20	PR-4066 High Strength Plastic & Rubber Bonding - EMS Force	Engineering Adhesives	4.2.13
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32900 Series - KOYO	Bearings - Tapered Roller	6.1.40	RT-20 High Temperature Resistant Retaining Compound - EMS Force	Engineering Adhesives	4.2.10
33000 Series - KOYO	Bearings - Tapered Roller	6.1.42	RT-38 High Strength Retaining Compound - EMS Force	Engineering Adhesives	4.2.11
33100 Series - KOYO	Bearings - Tapered Roller	6.1.44	RT-41 Medium Strength Retaining Compound - EMS Force	Engineering Adhesives	4.2.11
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5567 Pipe Sealant (with PTFE) - EMS Force	Engineering Adhesives	4.2.5	Hitch Pin Grab Kit	Grab Kits	9.3.10
5577 Pipe Sealant (with PTFE) - EMS Force	Engineering Adhesives	4.2.5	Hose Clamp Grab Kit	Grab Kits	9.3.11
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HP-69 Hydraulic & Pneumatic Sealant - EMS Force	Engineering Adhesives	4.2.12			

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Rivet Grab Kit	Grab Kits	9.3.13	Chain Lubricant Aerosl (Motul)	Lubricants	4.3.9
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Washers - Sealing Washer Grab Kit	Grab Kits	9.3.14	Wheel Bearing Grease	Lubricants	4.3.8
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Wire Terminal Grab Kit	Grab Kits	9.3.14	BS Series O-Rings	O-Rings	4.1.21
Woodruff Key - Metric Grab Kit	Grab Kits	9.3.15	BS Series Viton O-Rings - 75 Viton	O-Rings	4.1.35
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Flat Single Flange Idler Pulleys (4 Point Heavy Duty) - Aetna	Idler Pulleys	2.5.13	Oil Seals - Metric	Oil Seals	4.1.7
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L100 Classical Timing Pulleys (Taper Lock)	Pulleys	2.4.7	ANSI Heavy Series Chain - SSP	Roller Chain	1.3.7
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SPA Pilot Bore Pulleys	Pulleys	2.4.40	ANSI Roller Chain - SY	Roller Chain	1.1.10
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SPB Pilot Bore Pulleys	Pulleys	2.4.40	Aqua Series Chain - SY	Roller Chain	1.1.16
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Roller Chain Reels - SSP	Roller Chain	1.3.9	100-1 Plate Wheel Sprocket	Sprockets	1.4.5
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Self Lubricating Chain - KCM	Roller Chain	1.2.25	10B-1 Stainless Steel Sprocket	Sprockets	1.4.31
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Stainless Steel Chain - BS & ANSI - KCM	Roller Chain	1.2.26	12B-1-2-3 Pilot Bore Sprocket	Sprockets	1.4.18
Stainless Steel Chain - BS & ANSI - SY	Roller Chain	1.1.34	12B-1-2-3 Taper Lock Sprocket	Sprockets	1.4.25
Stainless Steel Chain - Double Pitch - KCM	Roller Chain	1.2.27	16A-1 Plate Wheel Sprocket	Sprockets	1.4.37
Stainless Steel Chain - Double Pitch - SY	Roller Chain	1.1.35	16B-1 Stainless Steel Sprocket	Sprockets	1.4.32
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Self Locking Units (Type-01)	Shaft Fixings	3.1.53	40-1 Pilot Bore Sprocket	Sprockets	1.4.8
Self Locking Units (Type-02) (Self Centering)	Shaft Fixings	3.1.54	40-1 Plate Wheel Sprocket	Sprockets	1.4.4
Self Locking Units (Type-04) (Self Centering)	Shaft Fixings	3.1.55	60-1 Pilot Bore Sprocket	Sprockets	1.4.10
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Shaft Collars - Two Piece Split (Clamp Type) Metric	Shaft Fixings	3.1.63	BS Sprockets	Sprockets	1.4.14
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GUN Series - GMB	Universal Joints	9.1.12			
GUT Series - GMB	Universal Joints	9.1.12			
Industrial Universal Joints - Single D-Type - NBR	Universal Joints	9.1.21			
Interchange Chart - Universal Joints	Universal Joints	9.1.20			
K5 Series - NBR	Universal Joints	9.1.18			