

CLUTCH SECTION



Overload Ratchet Clutch

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K31 - K36
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Cam Type Cut-Out Clutch

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K64/12 K64/14
K64/22 K64/24
K68/22 K68/24
EK68/22 EK68/24


Shearbolt Clutch

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K61/1 KB61/20 K61/30
FKB61/20
FKB61/30

Elastic Clutch

K65


Friction Clutch

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K62/0 K90 K90/4 K90/4T
K94 FK90/4TR - 4TL
K92 K92/4 EK92 EK92/4
K96 K96/4 EK96 EK96/4
EK97/4 EFK97/4


Overrunning Clutch

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F5/1 F5/2 EF5/1 EF5/2
F5/3 JF5/1 JF5/2
IFM/R IFM/L

TYPICAL CLUTCH APPLICATIONS



Mower
F5/1 - FK96



Silo Filler
K33 - K64



Forage Wagon
K33 - K64



Windrower
K32 - K33



Tedder / Turner
K32 - K33



Baler
K64 - K96 - K90



Big Baler
K64 - F5/2



Milling Cutter
K90 - K64



Potato Lifter
K32 - K33



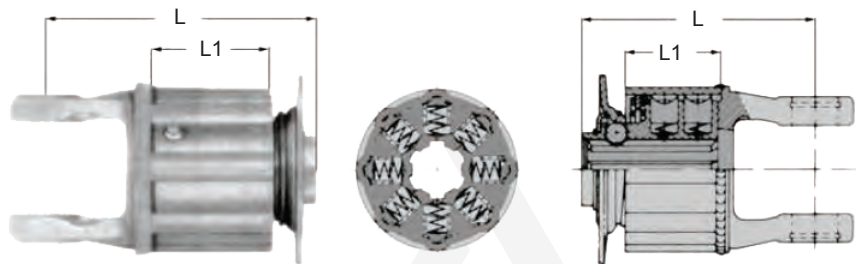
Rotary Tiller
K90 - K64



Maize Harvester
F5/1 - FK96 - FK97



Crop Sprayer
K94/1 - K90

OVERLOAD RATCHET


Series Type	L mm	L1 mm	Hub Size	Part Number
2100				
K31B	101	36	1 3/8"x6 Spl ZV	55.369.03
K31B	101	36	1 3/8"x21 Spl ZV	55.368.03
K32B	120	55	1 1/8"x6 Spl ZV	55.578.03
K32B	120	55	1 3/8"x6 Spl ZV	55.288.03
K32B	120	55	25mm x 8mm K	55.668.03
K32B	120	55	30mm x 10P	55.916.03
K32B	120	55	30mm x 10/16P x 2	55.746.03

2200				
K31B	107	36	1 3/8"x6 Spl ZV	55.194.03
K32B	126	55	1 3/8"x6 Spl ZV	55.196.03
K32B	126	55	1 3/8"x6 GN	55.764.03
K32B	126	55	30mm x 8mm K	55.583.03
K33B	145	74	1 3/8"x6 Spl ZV	55.198.03
80° K32B	126	55	1 3/8"x6 Spl ZV	55.673.03
80° K33B	145	74	1 3/8"x6 Spl ZV	55.663.03

2300				
K32B	136	55	1 3/8"x6 Spl ZV	55.200.03
K33B	155	74	1 3/8"x6 Spl ZV	55.202.03
80° K33B	155	74	1 3/8"x6 Spl ZV	55.674.03
K34M	174	93	1 3/8"x6Spl ZV	55.650.03

Series Type	L mm	L1 mm	Hub Size	Part Number
2400				
K33B	163	74	1 3/8"x6 Spl ZV	55.576.03
K34B	182	93	1 3/8"x6 Spl ZV	55.535.03
K35B	201	112	1 3/8"x6 Spl ZV	55.648.03
K35B	201	112	1 3/8"x21 Spl ZV	55.665.03
K36B	220	131	1 3/8"x6Spl ZV	55.543.03

EK TYPE	L	L1	Hub Size	Part Number
EK31B	74.5	47.6	30mm x 8mm K	55.768.03
EK32B	93	66	25mm x 8mm K	55.842.03
EK32B	98	76.2	30mm x 10mm P	55.479.03
EK32B	93	63	30mm x 8mm K	55.572.03
EK33B	112	85.5	35mm x 18 Spl	55.914.03
EK34B	107.8	92.8	45mm x 22 Spl	55.132.13



ZV Oval Pull Back Collar

K Keyway

B Both Directions

P Pin Hole

GN + Grease Nipple

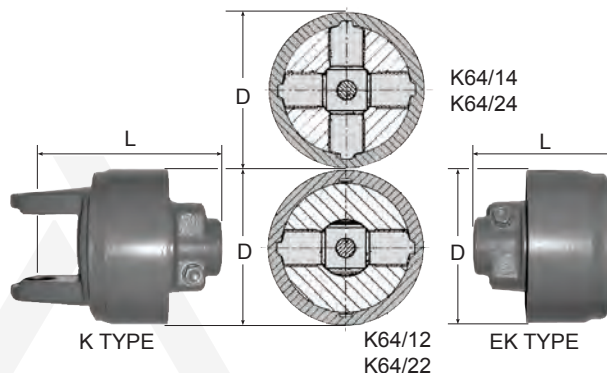
H Hardened

M High Torque Round Housing

Note: More types available quick reference only

Separate spare parts shown on Page 52

CAM TYPE CUT-OUT



Series Type	L mm	D mm	Hub Size	Part Number
2300				
K64/12R	181	130	1 3/8x6 CC	59.108.41
K64/14R	181	130	1 3/8x6 CC	59.108.42
K64/14R	181	130	1 3/8x21 CC	59.110.42
2400				
K64/12R	186	130	1 3/8x6 CC	59.100.41
K64/12L	186	130	1 3/8x6 CC	59.101.41
K64/14R	186	130	1 3/8x6 CC	59.100.42
K64/14R	186	130	1 3/8x21 CC	59.115.42
K64/14L	186	130	1 3/8x6 CC	59.101.42
K64/22R	189	168	1 3/8x6 CC	59.110.43
K64/22R	189	168	1 3/8x21 CC	59.105.43
K64/22R	189	168	1 3/4x6 CC H	59.116.43
2500				
K64/22R	199	168	1 3/8x6 CC	59.117.43
K64/22R	199	168	1 3/8x21 CC	59.123.43
K64/22R	199	168	1 3/4x6 CC H	59.127.43
K64/22R	199	168	1 3/4x20 CC H	59.108.43
K64/22L	199	168	1 3/4x6 CC H	59.128.43
K64/22L	199	168	1 3/4x20 CC	59.109.43
K64/24R	199	168	1 3/8x6 CC H	59.111.44
K64/24R	199	168	1 3/4x6 CC H	59.106.44
K64/24R	199	168	1 3/4x20 CC H	59.104.44

Series Type	L mm	D mm	Hub Size	Part Number
2600				
K64/22R	197	168	1 3/4x6 CC H	59.106.43
K64/22R	197	168	1 3/4x20 CC H	59.124.43
K64/24R	197	168	1 3/4x6 CC H	59.110.44
K64/24R	197	168	1 3/4x20 CC H	59.108.44
K64/24L	197	168	1 3/4x20 CC H	59.114.44
2700				
K64/24R	232	168	52mmx25 CB	59.131.44
K64/24R	232	168	1 3/4x6 CC H	59.118.44
K64/24R	232	168	1 3/4x20 CC H	59.117.44
K64/24R	259	168	2 1/4 x 22 CB H	59.117.44
EK TYPE				
EK64/12R	128	130	1 3/8x6 CC	59.103.41
EK64/12L	128	130	1 3/8x6 CC	59.102.41
EK64/14R	128	130	1 3/8x6 CC	59.103.42
EK64/14L	128	130	1 3/8x6 CC	59.102.42
EK64/22R	136	168	1 3/8x6 CC(PCD118)	59.132.43
EK64/22R	136	168	1 3/8x6 CC	59.111.43
EK64/22R	136	168	1 3/4x6 CC H	59.107.43
EK64/22R	136	168	1 3/4x20 CC H	59.101.43
EK64/22L	136	168	1 3/4x6 CC H	59.102.43
EK64/24R	136	168	1 3/4x6 CC H	59.100.44
EK64/24R	136	168	1 3/4x20 CC H	59.101.44
EK64/24L	136	168	1 3/4x6 CC H	59.102.44
EK64/24L	136	168	1 3/4x20 CC H	59.103.44

CB Clamp Bolt
RH Right Hand

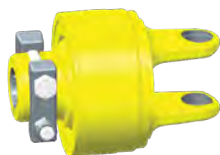
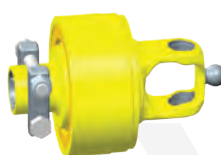
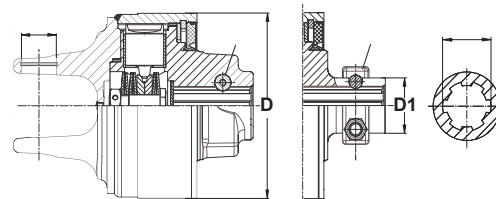
CC Clamp Cone
LH Left Hand

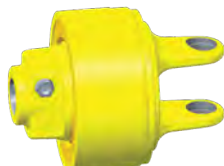
H Hardened

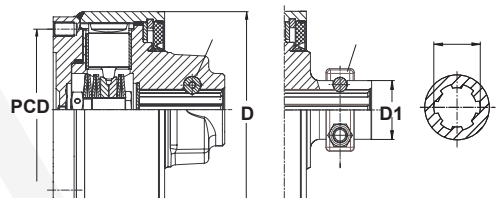
Note: More types available quick reference only

Separate spare parts shown on Pages 53 - 54

CAM TYPE CUT-OUT

EK68

K68

K68 (80°)

K68

EK68

K68

K68 (P75° P80°)

EK68

Series	Type	L mm	D mm	D1 mm	Hub Size	Part Number
2400	K68/22R	197	168	50	1 3/8" x 6 Spl CB	59.106.52
	K68/22R	197	168	80	1 3/4" x 6 Spl CB	59.110.52
	80° K68/22R	197	168	50	1 3/8" x 6 Spl CB	59.107.52
2500	K68/22R	204	168	50	1 3/8" x 6 Spl CB	59.113.52
	K68/22R	211	168	80	1 3/4" x 6 Spl CB	59.119.52
	P80° K68/22R	211	168	80	1 3/4" x 6 Spl CB	59.118.52
	P80° K68/24R-F	211	168	80	1 3/4" x 6 Spl CB	59.106.53
2600	K68/24R	211	168	80	1 3/4" x 6 Spl CC H	59.117.53
	K68/24R	211	168	80	1 3/4" x 20 Spl CC H	59.107.53
	K68/24L	211	168	80	1 3/4" x 20 Spl CC H	59.108.53
	P75° K68/24R	211	168	80	1 3/4" x 6 Spl CB	59.105.53

Series	Type	PCD mm	L mm	D mm	D1 mm	Hub Size	Part Number
EK TYPE							
	EK68/22R	138	154	168	50	1 3/8" x 6 Spl CB	59.115.52
	EK68/22R	138	154	168	80	1 3/4" x 6 Spl CB	59.111.52
	EK68/24R	138	148	168	80	1 3/4" x 6 Spl CC H	59.100.53
	EK68/24L	138	148	168	80	1 3/4" x 6 Spl CC H	59.101.53

CB Clamp Bolt

R Right Hand

CC Clamp Cone

L Left Hand

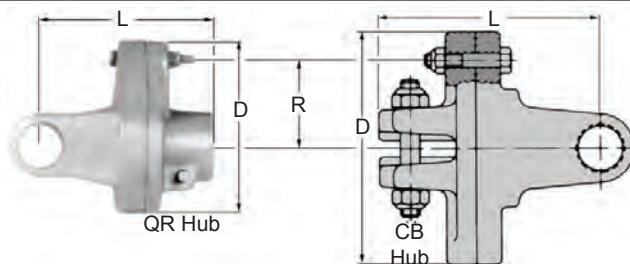
H Hardened

F - Fixed Setting

Note: More types available quick reference only

Separate spare parts shown on Page 55

SHEARBOLT



Series	Type	L mm	D mm	R mm	Shearbolt Diameter mm	Torque NM	Hub Size	Part Number
2100								
QR	K61/1	121	106	42	6	780	1 3/8" x 6Spl	57.103.12
2200								
QR	K61/1	123	106	42	8 (DIN931)	1400	1 1/8" x 6Spl	57.114.12
QR	K61/1	123	106	42	8	910	1 3/8" x 6Spl	57.107.12
2300								
CB	KB61/20	133	140	52	8	1730	1 1/8" x 6Spl	57.103.18
QR	KB61/20	126	140	48	8	1600	1 3/8" x 6Spl	57.134.18
CB	KB61/20	133	140	48	8	1600	1 3/8" x 6Spl	57.102.18
2400								
QR	KB61/20	129	156	56	8	1860	1 3/8" x 6Spl	57.157.18
QR	KB61/20	129	156	48	7	1220	1 3/8" x 6Spl	57.121.18
QR	KB61/20	129	156	48	8	1600	1 3/8" x 6Spl	57.122.18
QR	KB61/20	129	156	48	10	2500	1 3/8" x 6Spl	57.142.18
QR	KB61/20	129	156	64	8	2130	1 3/8" x 6Spl	57.123.18
QR	KB61/20	129	156	56	10	2920	1 3/8" x 6Spl	57.133.18
CB	KB61/20	136	156	48	10	2500	1 3/8" x 6Spl	57.135.18
CB	KB61/20	136	156	56	10	2920	1 3/4" x 6Spl	57.170.18
2500								
QR	KB61/20	136	156	48	10	2500	1 3/8" x 6Spl	57.146.18
QR	KB61/20	136	156	64	8	2130	1 3/8" x 6Spl	57.126.18
QR	KB61/20	143	156	56	10	2920	1 3/8" x 6Spl	57.154.18
CB	KB61/20	143	156	48	12	3600	1 3/8" x 6Spl	57.144.18
QR	KB61/20	136	156	48	10	2500	1 3/8" x 21Spl	57.125.18
QR	KB61/20	143	156	56	8	1860	1 3/4" x 6Spl	57.167.18
CB	KB61/20	143	156	56	10	2920	1 3/4" x 6Spl	57.131.18
CB	KB61/20	143	156	64	8	2130	1 3/4" x 6Spl	57.124.18
QR	KB61/20	170	156	56	10	2920	1 3/4" x 6Spl	117698
CB	KB61/20	143	156	56	10	2920	1 3/4" x 20Spl	57.179.18
P80°SC	KB61/20	177	139	56	10	2920	1 3/4" x 20Spl	371651
2600								
CC	KB61/30	166	180	75	10	3900	1 3/4" x 20Spl	57.115.19
CC	KB61/30	166	180	75	14	7650	1 3/4" x 6Spl	57.101.19

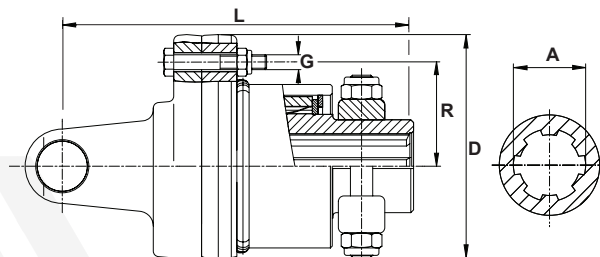
QR Quick Release
R Right Hand

CB Clamp Bolt
L Left Hand

CC Clamp Cone

Note: More types available quick reference only

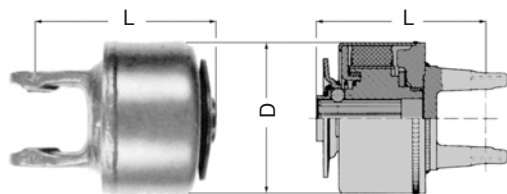
Separate spare parts shown on Pages 56 - 57

COMBINATION SHEARBOLT / FREEWHEEL


Series	Type	L mm	D mm	R mm	G Shearbolt Diameter mm	Torque NM	A Hub Size	Part Number
2500								
CB	FKB61/20R	205	130	56	12	4200	1 3/4" x 6 Spl	58.116.18
CB	FKB61/20R	205	130	64	12	4800	1 3/4" x 20 Spl	58.112.18
2600								
CB	FKB61/30R	245	178	75	12	5630	1 3/4" x 20 Spl	58.100.19


QR - Quick Release

CB - Clamp Bolt

CC - Clamp Cone
ELASTIC


Series Type	L mm	D mm	Hub Size	Part Number
2100				
K65/3	136	85	30mm	55.101.11
2300				
K65/2	185	140	30mm x 8mm	55.117.09
2400				
K65/2	167	140	1 3/8"x6 Spl ZV	55.104.09
K65/2	167	140	30mm x 8mm	55.115.09
K65/2	167	140	35mm x 10mm	55.116.09

ZV Oval Pull Back Collar
R Right Hand

CB Clamp Bolt
L Left Hand

CC Clamp Cone
K Keyway

Note: More types available quick reference only

Separate spare parts shown on Pages 57 - 58

FRICTION CLUTCH LININGS (To Suit Most Ag Clutches)

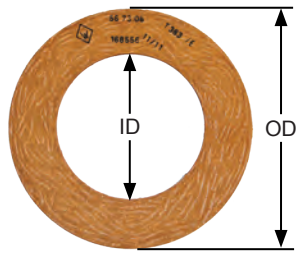


Fig. 1

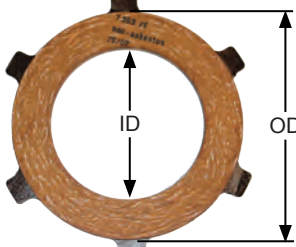


Fig. 2

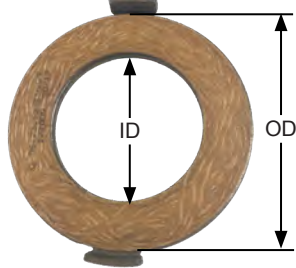
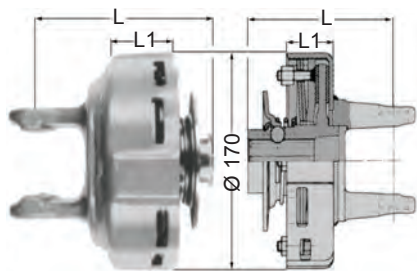


Fig. 3

Type	Fig.	OD mm	ID mm	Part Number
K94/1	1	90	56	56.73.13
F02	1	120	68	F02-014-019
FV22	1	124	67	247006151
6" AFC	1	127	45	P - 1023
FF1, FF3, FNV34	1	140	85	247000054
FV32, FV34	1	141	77	247006251
F12	1	142	77.5	F12-015-019
K92, K92/4, K90, K90/4	1	150	91	56.73.08
K900 EFBK926MR Special For Krone Baler	2	151	101	56.73.104
K900 EFBK926MR Special For Krone Baler	2	151	101	56.73.105
F22/42	1	152	90	F42-019-018
K90/4T	1	152	100	56.73.21
RF	1	152	102	RFO-017-106
FK92	1	153	97	56.73.16
K96, K96/4	1	157	100	56.73.12
K96/4 sintered	1	157	100	56.73.102
K96 (Water Clt)	3	157	100	56.34.102
K96 (Water Clt)	3	157	100	56.34.103
FF2, FF4, FNV44	1	160	97	247000061
FV42, FV44	1	162	85	247006351
8" AFC	1	164	62	P - 1005
K93	1	170	102	56.73.15
K97/4	1	187	120	56.73.11

K92 & K92/4

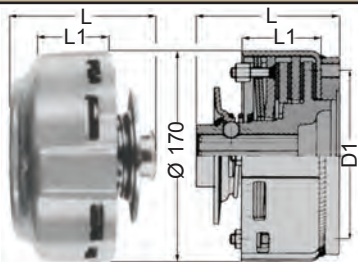


Series Type	L mm	L1 mm	Hub Size	Part Number
2100				
K92	121	44	1 3/8"x 6Spl ZV	56.133.16
2200				
K92	127	44	1 3/8"x 6Spl ZV	56.113.16
2300				
K92	137	44 Hvy Duty Housing	1 3/8"x 6Spl ZV	56.219.16
K92/4	169	64	1 3/8"x 6Spl ZV	56.218.16
2400				
K92	145	44	1 3/8"x 6Spl ZV	56.220.16
K92/4	173	64	1 3/8"x 6Spl ZV	56.221.16
K92/4	173	64	1 3/8"x21Spl QR M	56.290.16
K92/4	188	64	1 3/8"x 6Spl CB	56.246.16
K92/4	188	64	1 3/4"x 6Spl CB	56.242.16
2500				
K92/4	180	64	1 3/8"x 6Spl ZV	56.222.16
K92/4	180	64	1 3/8"x21Spl CB	56.244.16
K92/4	180	64	1 3/4"x 6Spl CB	56.235.16

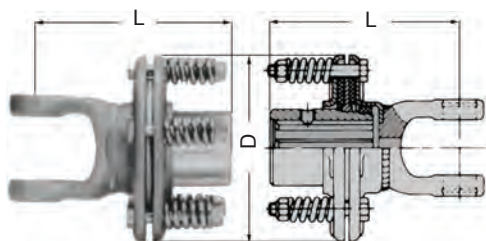
ZV Oval Pull Back Collar
AS Ball Collar

CB Clamp Bolt
M Mini QR Pin

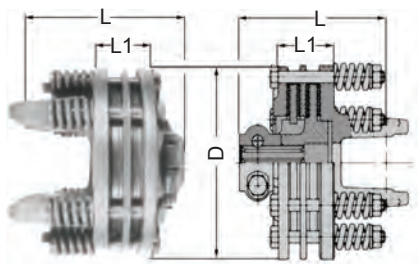
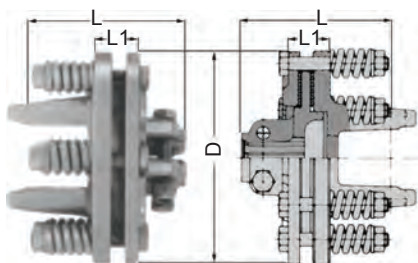
Separate spare parts shown on Page 62

EK92 & EK92/4


Series Type	L mm	L1 mm	D1 mm	Hub Size	Part Number
EK92	88	44	84	1 3/8" x 6Spl ZV	56.100.16
	88	44	84	35mm x 10mm K	56.153.16
EK92/4	115	64	118	1 3/8" x 6Spl ZV	56.134.16
	115	64	138	1 3/8" x 6Spl ZV	56.135.16
	115	64	138	1 3/8" x 21Spl ZV	56.158.16

K94/1


Series Type	L mm	D mm	Hub Size	Part Number
2100				
K94/1	127	120	1 1/8" x 6Spl AS	56.111.19
K94/1	127	120	1 1/8" x 6Spl GS	56.101.19
K94/1	127	120	1 3/8" x 6Spl GS	56.105.19
K94/1	127	120	1 3/8" x 6Spl ZV	56.117.19
K94/1	127	120	25mm x 8mm K GS	56.107.19
K94/1	127	120	30mm x 8mm K GS	56.100.19
K94/1	127	120	30mm VICON	56.104.19
2200				
K94/1	129	120	1 1/8" x 6Spl AS	56.115.19
K94/1	129	120	1 1/8" x 6Spl AZ	56.102.19
K94/1	129	120	1 3/8" x 6Spl GS	56.103.19

K90 & K90/4


Series Type	L mm	L1 mm	D mm	Hub Size	Part Number
2300					
K90	134	32	190	1 3/8" x 6Spl CB	56.100.08
2400					
K90	129	32	190	1 3/8" x 6Spl CB	56.102.08
K90	129	32	190	1 3/8" x 21Spl CB	56.103.08
K90	129	32	190	1 3/4" x 6Spl CB	56.104.08
K90	129	32	190	1 3/4" x 20Spl CB	56.105.08
K90/4	149	52	190	1 3/8" x 6Spl CB	56.108.09
K90/4	149	52	190	1 3/8" x 21Spl CB	56.109.09
K90/4	149	52	190	1 3/4" x 6Spl CB	56.110.09
K90/4	149	52	190	1 3/4" x 20Spl CB	56.111.09
2500					
K90	134	32	190	1 3/8" x 6Spl CB	56.106.08
K90	134	32	190	1 3/8" x 21Spl CB	56.107.08
K90	134	32	190	1 3/4" x 20 Spl CB	56.108.08
K90/4	154	52	190	1 3/8" x 6Spl CB	56.100.09
K90/4	154	52	190	1 3/8" x 21Spl CB	56.101.09
K90/4	154	52	190	1 3/4" x 6Spl CB	56.102.09
K90/4	154	52	190	1 3/4" x 20Spl CB	56.103.09
2600					
K90/4	164	58	190	1 3/8" x 6Spl CB	56.104.09
K90/4	164	58	190	1 3/8" x 21Spl CB	56.105.09
K90/4	164	58	190	1 3/4" x 6Spl CB	56.106.09
K90/4	164	58	190	1 3/4" x 20Spl CB	56.107.09

AZ Pull Back Collar

CB Clamp Bolt

ZV Oval Pull Back Collar

AS Ball Collar

GS Grub Screw

K Keyway

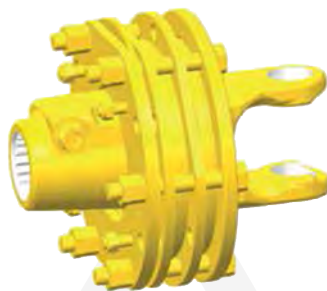
NB All Series: Bore + Key Hubs & Hex Hubs available on request.

Separate spare parts shown on Pages 60 & 62

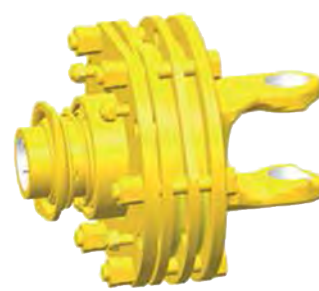
K90T K90/4T & FK90/4TR FK90/4TL



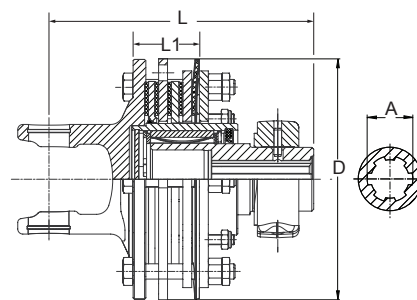
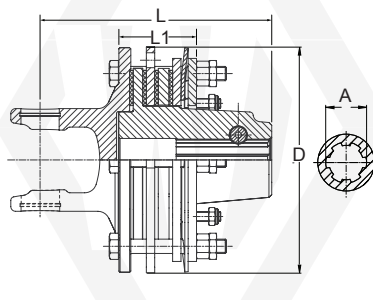
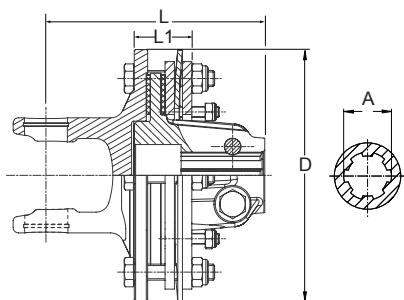
K90T



K90/4T



FK90/4TR & FK90/4TL



K90T SERIES

Series	Type	D mm	Torque Range da Nm	A Hub Size	Part Number
2400	K90T	188	100	1 3/8" x 6Spl CB	56.100.12
2400	K90/4T	188	75 - 180	1 3/8" x 6Spl CC	56.101.13
2400	K90/4T	188	120 - 160	1 3/4" x 20Spl CC	56.100.13
2500	K90/4T	188	180	1 3/4" x 20Spl CC	56.102.13

FK90/4T SERIES

Series	Type	D mm	Torque Range da Nm	A Hub Size	Part Number
2400	FK90/4TR	188	150	1 3/8" x 6Spl ZV	58.100.41
2400	FK90/4TR	188	120	1 3/8" x 6Spl CC	58.102.41
2400	FK90/4TL	188	150	1 3/4" x 20Spl ZV	58.101.41
2400	FK90/4TL	188	120	1 3/4" x 20Spl CC	58.103.41

CB Clamp Bolt

CC Clamp Cone

ZV Oval Pull Back Collar

R Right Hand

L Left Hand

Note: More types available quick reference only

Separate spare parts shown on Page 59

K62/0 BALL RATCHET CLUTCH

K62 SERIES

Series	Type	L mm	L1 mm	D mm	Torque Range da Nm	A Hub Size	Part Number
-	EK62/0	185	-	108	80	1 3/8" x 21Spl QR	59.100.00

K90TF & K90/4TF FRICTION CLUTCH (FIXED)


Series	Type	L mm	L1 mm	D mm	Torque Range da Nm	A Hub Size	Part Number
2500	K90/4TF	170	50	192	1100 - 2500	1 3/4" x 20Spl CB	56.102.37
2600	K90/4TF	170	50	192	1100 - 2500	1 3/4" x 20Spl CB	56.107.37



CB Clamp Bolt
R Right Hand

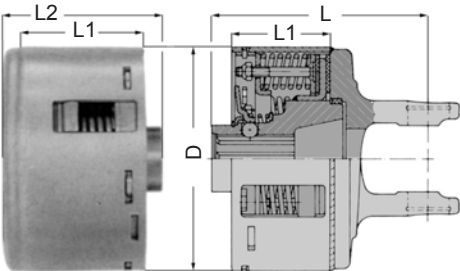
CC Clamp Cone
L Left Hand

QR Quick Release

Note: More types available quick reference only

Separate spare parts shown on Pages 58 - 59

K96 & K96/4 & EK96/4

EK Type	K Type	Series Type	L mm	L1 mm	D mm	Hub Size	Part Number	
		2300						
		K96	163	75	170	1 3/8"x 6Spl ZV	56.100.50	
		K96/4	173	90	170	1 3/8"x 6Spl ZV	56.109.51	
		2400						
		K96	164	75	170	1 3/8"x 6Spl ZV	56.107.50	
		K96/4	209	90	170	1 3/8"x 6Spl CC	56.138.51	
		K96/4	209	90	170	1 3/8"x 6Spl ZV	56.100.51	
		K96/4	207	90	170	1 3/8"x21Spl ZV	56.108.51	
		K96/4	211	90	170	1 3/4"x 6Spl CC	56.139.51	
		K96/4	211	90	170	1 3/4"x20Spl CB	56.113.51	
		2500						
		K96/4	215	90	170	1 3/8"x 6Spl CC	56.136.51	
		K96/4	215	90	170	1 3/8"x21Spl CC	56.140.51	
		K96/4	222	90	170	1 3/4"x6Spl CC	56.141.51	
		K96/4	222	90	170	1 3/4"x20Spl CC	56.145.51	
		2600						
		K96/4	221	90	170	1 3/4"x 6Spl CC	56.133.51	
		K96/4	221	90	170	1 3/4"x20Spl CC	56.134.51	
		EK TYPE	L2					
		EK96/4	110	90	170	1 3/8"x21Spl Kemper	56.148.51	
	EK96/4	152	90	170	1 3/8"x 6Spl CC	56.142.51		

ZV Oval Pull Back Collar
CC Clamp Cone

CB Clamp Bolt

Note: More types available quick reference only

Separate spare parts shown on Page 64



EK Type



K Type

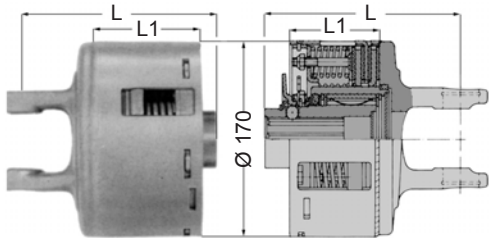


K & EK Type Clutch Settings

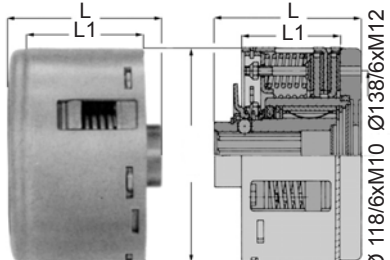
Torque Level		Setting	Clutch Housing Position
I	70%	min.	1
II*	80%	max.	1
III	90%	min.	2
IV	100%	max.	2

* Preferred Torque Setting

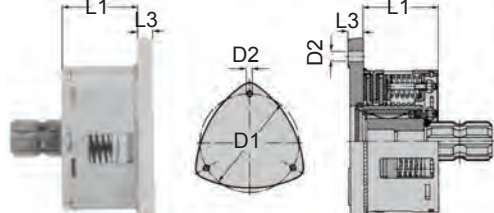
FK96R & FK96/4R & FK96/4L & FBK96/4R

	TYPE	Series	L mm	L1 mm	Hub Size	Part Number
	FK96 R	2300	189	75	1 3/8" x 6 Spl ZV	58.107.50
		2400	190	75	1 3/8" x 6 Spl ZV	58.111.50
	FK96/4 R	2400	190	90	35mm x 10mm K CB	154042
		2400	165	90	1 3/8" x 6 Spl ZS	156899
		2400	190	90	1 3/8" x 6 Spl ZV	58.109.51
		2400	190	90	1 3/8" x 6 Spl CC	58.139.51
		2400	190	90	1 3/8" x 21 Spl CC	58.118.51
		2400	190	90	1 3/4" x 6 Spl CC	58.140.51
		2500	175	90	1 3/8" x 6 Spl ZS	58.173.51
		2500	198	90	1 3/8" x 6 Spl ZV	58.148.51
		2500	219	90	1 3/8" x 6 Spl CC	58.133.51
		2500	190	90	1 3/8" x 21 Spl CC	58.152.51
		2500	214	90	1 3/4" x 6 Spl CC	58.145.51
		2500	214	90	1 3/4" x 20 Spl CB	58.138.51
		2500	190	90	1 3/4" x 20 Spl ZS	387824
		2600	214	90	1 3/4" x 20 Spl CB	58.142.51
		2600	214	90	1 3/4" x 20 Spl ZS	387825
	FK96/4 L	2400	165	90	1 3/8" x 6 Spl ZS	156905
		2400	165	90	1 3/4" x 6 Spl ZS	58.172.51
		2400	190	90	1 3/4" x 6 Spl CC	58.141.51
		2500	175	90	1 3/8" x 6 Spl ZS	58.174.51
	FBK96/4 R	2500	219	90	1 3/4" x 20 Spl CC	58.113.51
		2500	219	90	1 3/4" x 20 Spl CC	58.149.51

EFK96R & EFK96/4R

	TYPE	Series	L mm	L1 mm	Hub Size	Part Number
	EFK96 R	-	136	75	1 3/8" x 6 Spl ZV	58.108.50
	EFK96/4 R	-	157	90	1 3/8" x 6 Spl CC	58.143.51
		-	157	90	1 3/8" x 21 Spl CB	137841

PFK96/4R & PFBK96/4R

	TYPE	D1 mm	D2 mm	L3 mm	L1 mm	Hub Size	Part Number
	PFK96/4 R	203	12.5	18	90	1 3/4" x 6 Spl	58.101.53
	PFBK96/4 R	203	12.5	18	90	1 3/4" x 6 Spl	58.111.53
		280	13	18	90	1 3/4" x 6 Spl	58.108.53

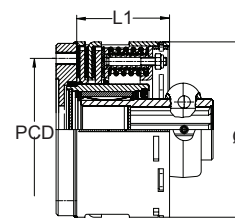
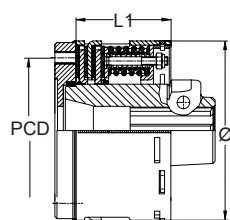
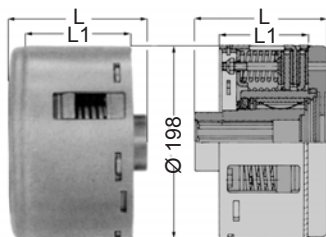
ZV Oval Pull Back Collar
R Right Hand

CC Clamp Cone
L Left Hand

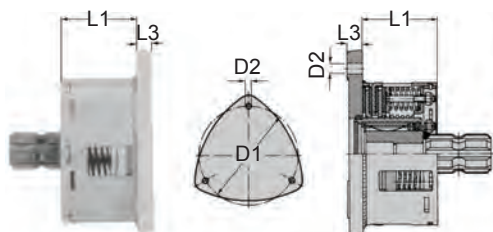
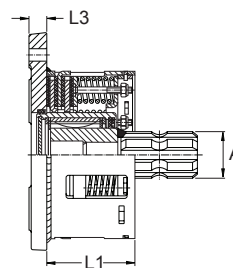
CB Clamp Bolt
ZS Inline

Note: More types available quick reference only

Separate spare parts shown on Pages 66 - 67

FRICTION & FRICTION OVERRUNNING**EK97/4 & EFK97/4**

TYPE	Ø mm	L mm	L1 mm	PCD mm	A Hub Size	Part Number
EK97/4	198	113	93	138	1 3/4"x 6Spl CC	56.104.56
	198	113	93	138	1 3/4"x20Spl	56.102.56
EFK97/4	198	113	93	138	1 3/4"x 20Spl CC	58.104.56

PK97/4R & PFK97/4R

TYPE	D1 mm	D2 mm	L3 mm	L1 mm	A Hub Size	Part Number
PK97/4 R	240	13	25	90	1 3/4"x 6Spl	56.106.56
PFK97/4 R	248	13	18	90	1 3/4"x 6Spl	58.105.56
	240	13	18	90	1 3/4"x 6Spl	58.106.56
	260	13	18	90	1 3/4"x 6Spl	58.102.56
	340	13	18	90	1 3/4"x 6Spl	58.107.56

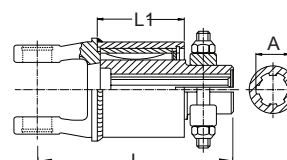
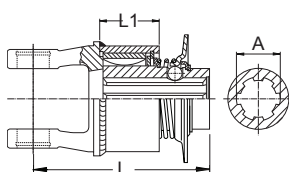
CC Clamp Cone

R Right Hand

L Left Hand

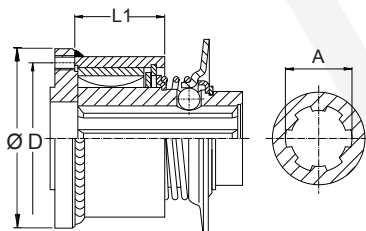
Note: More types available quick reference only

Separate spare parts shown on Pages 67 - 68

OVERRUNNING


Series Type	L mm	L1 mm	A Hub Size	Part Number
2100				
F5/1R	132	50	1 3/8"x 6Spl ZV	56.147.40
F5/1L	132	50	1 3/8"x 6Spl ZV	56.148.40
F5/1R	132	50	1 3/8"x21Spl ZV	56.149.40
2200				
F5/1R	138	50	1 3/8"x 6Spl ZV	56.140.40
F5/1L	138	50	1 3/8"x 6Spl ZV	56.142.40
F5/1L	138	50	30mm x 8mm K	56.109.40
F5/1R	138	50	1 3/8"x 21Spl ZV	56.153.40
80° F5/1R	138	50	1 3/8"x 6Spl ZV	56.179.40
2300				
F5/1R	148	50	1 3/8"x 6Spl ZV	56.141.40
F5/1L	148	50	1 3/8"x 6Spl ZV	56.143.40
F5/1R	148	50	1 3/8"x21Spl ZV	56.157.40
80° F5/1R	148	50	1 3/8"x 6Spl ZV	56.244.40
2400				
F5/1R	156	50	1 3/8"x 6Spl ZV	56.144.40
F5/1R	159	50	1 3/8"x 6Spl CB	56.172.40
F5/1R	156	50	1 3/8"x 6 PH	56.203.40
F5/1R	156	50	1 3/8"x21Spl ZV	56.163.40
F5/1R	142	50	40mm x 12mm K PH	56.138.40
F5/1L	156	50	1 3/8"x 6Spl ZV	56.137.40
F5/1L	184	50	1 3/4"x 6Spl CB	56.166.40
F5/1R	156	50	35mm x 10mm K	56.125.40
80° F5/1R	156	50	1 3/8"x 6Spl ZV	56.132.40
F5/1R	184	50	1 3/4" x 6Spl CB	56.165.40
F5/1R	184	50	1 3/4" x 20Spl CB	56.167.40

Series Type	L mm	L1 mm	A Hub Size	Part Number
2500				
F5/1R	166	50	1 3/8"x 6Spl ZV	56.104.40
F5/1L	166	50	1 3/8"x 6Spl ZV	56.108.40
F5/1R	166	50	1 3/8"x21Spl ZV	56.107.40
F5/1R	172	50	1 3/4"x 6Spl CB	56.119.40
F5/1R	172	50	1 3/4"x20Spl CB	56.120.40
F5/1R	171	50	1 3/4"x20Spl AS	56.253.40
80° F5/1R	172	50	1 3/8"x6Spl ZV	56.123.40
F5/2R	192	74	1 3/8"x 6Spl CB	56.131.41
F5/2R	208	74	1 3/8"x 6Spl CC	56.157.41
F5/2R	192	74	1 3/8"x21Spl CB	56.132.41
F5/2R	198	74	1 3/4"x 6Spl CB	56.121.41
F5/2L	198	74	1 3/4"x 6Spl CB	56.122.41
F5/2R	198	74	1 3/4"x20Spl CB	56.123.41
F5/2R	198	74	1 3/4"x20Spl CB	56.107.41
F5/2R	198	74	1 3/4"x20Spl AS	56.118.41
F5/2R	208	74	1 3/4"x20Spl CCH	56.145.41
2600				
F5/2R	206	74	1 3/8"x21Spl CB	56.128.41
F5/2R	206	74	1 3/4"x 6Spl CB	56.101.41
F5/2L	206	74	1 3/4"x 6Spl CB	56.102.41
75° F5/2R	206	74	1 3/4"x 6Spl CB	56.164.41
F5/2R	206	74	1 3/4"x20Spl CB	56.129.41
F5/2R	206	74	1 3/4"x20Spl CC	56.151.41
F5/2L	206	74	1 3/4"x20Spl CB	56.130.41
2700				
F5/2R	243	74	1 3/4"x20Spl CC	56.155.41

EF TYPE OVERRUNNING CLUTCH


Series Type	D (PCD) mm	L1 mm	A Hub Size	Part Number
EF5/1R		50	1 3/8"x6Spl ZV	56.126.40
EF5/1R		50	1 3/8"x21Spl ZV	56.136.40
EF5/1R		50	1 3/4"x 6Spl CB	56.128.40
EF5/1R		50	1 3/4"x20Spl CB	56.129.40
EF5/1L		50	1 3/8"x6Spl ZV	56.127.40
EF5/1R	101	50	45mmx22Spl	56.266.40
ESF5/1L	Ø 152.5		1 3/8"x6Spl	114344

ZV Oval Pull Back Collar

K Keyway

R Right Hand

CB Clamp Bolt

PH Pinhole

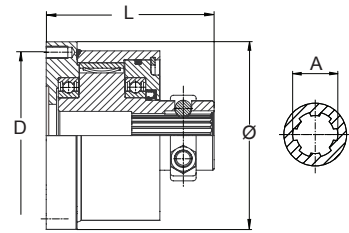
L Left Hand

AS Ball Collar

Note: More types available quick reference only

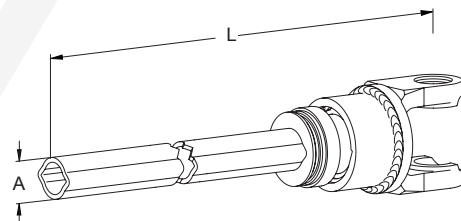
Separate spare parts shown on Pages 69 - 70

EFB5/3 OVERRUNNING CLUTCH



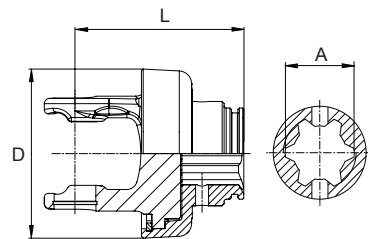
Series	Type	L mm	Ø mm	D (PCD) mm	Thread	Locating Spigot mm	A Hub Size	Part Number
CB	EFB5/3R	163	186	165	M12 x 8	98	1 3/4" x 6Spl	57.103.12
CB	EFB5/3R	163	186	165	M12 x 8	98	1 3/4" x 20Spl	57.114.12
CB	EFB5/3L	163	186	165	M12 x 8	98	1 3/4" x 20Spl	57.107.12

JF5 INBOARD OVERRUNNING CLUTCH



Series	Type	L mm	A Profile	Part Number
2200	JF5/12R	1200	1	56.109.42
2300	JF5/12R	1200	1	56.111.42
2400	JF5/1R	1100	1B	56.134.40
2500	JF5/12R	1000	S4	56.117.42

IFM INBOARD OVERRUNNING CLUTCH



Series	Type	L mm	A Profile	D mm	Part Number
2200	IFM/R	93.5	1	130	56.100.45
2300	IFM/R	123	2A	130	56.103.45
2400	IFM/R	123	2A	130	56.101.45
P400	IFM/R	132	S5	130	56.106.45
2200	IFM/L	93.7	1	130	56.114.45
2400	IFM/L	129.5	S5	130	56.115.45
2500	IFM/L	135	S5	140	56.116.45

CB Clamp Bolt

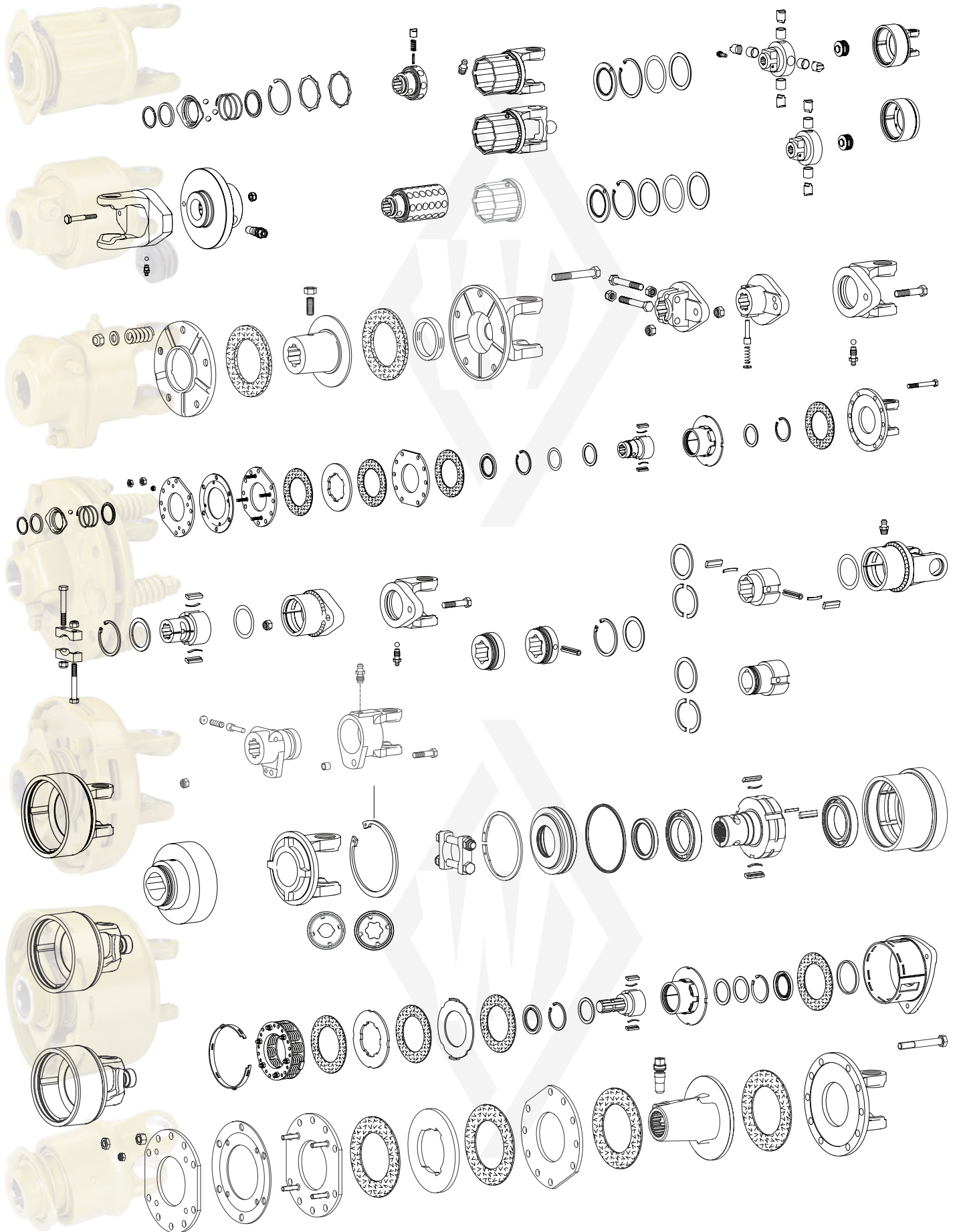
R Right Hand

L Left Hand

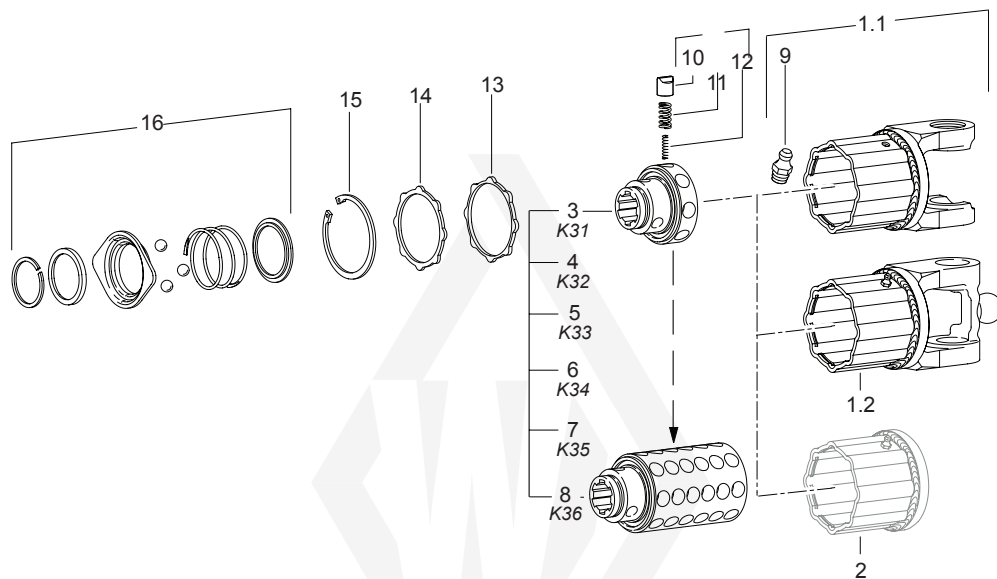
Note: More types available quick reference only

Separate spare parts shown on Pages 71 - 73

CLUTCH COMPONENT SECTION



K31B - K36B K33M - K34M OVERLOAD RATCHET



Item	Series / Size	Type	Part Number
1.1 Housing	2100	K31B	55.10.11
	2200	K31B	20.31.07
	2100	K32B	55.10.15
	2200	K32B	20.31.08
	2300	K32B	21.31.10
	2200	K33B	20.31.09
	2300	K33B	21.31.11
	2400	K33B	35.31.15
	2300	K34B	21.31.39
	2300	K34M	21.31.64
	2400	K34B	35.31.16
	2400	K34M	35.31.64
	2400	K35B	35.31.17
	2400	K36B	35.31.18
1.2 Housing	2280	K32B	20.31.820
	2280	K33B	20.31.821
	2380	K33B	21.31.833
	2380	K34B	21.31.834
2 Housing EK Series	84mm PCD	EK32	55.20.192
	84mm PCD	EK33B	55.20.194
	84mm PCD	EK34B	55.20.310
3 Hub	1 3/8x6	K31	55.14.12
	1" x 1/4 K	K31	55.14.1000
4 Hub	1 1/8x6	K32	55.14.16
	1 3/8x6	K32	55.14.15
	1 3/8x6 N	K32	55.14.462
	1 3/8x21	K32	55.14.17
	25mmx8mm K	K32	55.14.197
	30mmx8mm K	K32	55.14.343
	35mmx10mm K	K32	55.14.434

Item	Series / Size	Type	Part Number
5 Hub	1 3/8x6	K33	55.14.18
	1 3/8x6 N	K33	55.14.490
	1 3/8x21	K33	55.14.20
	1 1/4xH QR	K33	55.14.1250
	30mmx8mm K	K33	55.14.153
6 Hub	1 3/8x6	K34	55.14.21
	1 3/8x21	K34	55.14.23
7 Hub	1 3/8x6	K35	55.14.26
8 Hub	1 3/8x6	K36	55.14.24
	1 3/8x21	K36	55.14.458
9 Lubricator			63.12.05
10 Cam			55.01.03
11 Spring Outer	Standard Black		66.01.04
	Low Torque Copper		66.01.26
	High Torque Blue		66.01.52
12 Spring Inner	Standard Black		66.01.05
	Low Torque Copper		66.01.27
13 Sealing Ring		K31-36B	55.17.12
		K33-34M	55.17.20
14 Support Ring		K31-36B	55.15.10
		K33-34M	55.15.20
15 Retaining Ring			62.15.00
16 Locking Collar Set ZV	1 1/8x6		Agraset 127
	1 3/8x6 1 3/8x21		Agraset 108

QR Quick Release

K Keyway

M Heavy Duty

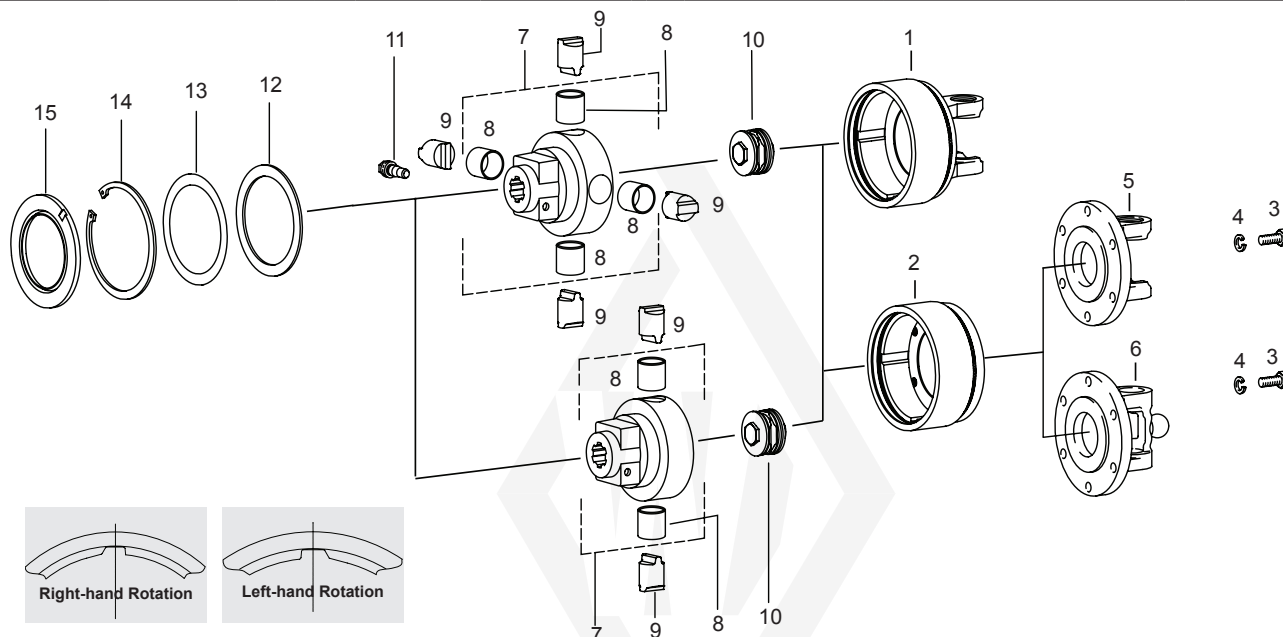
ZV Oval Pull Back Collar

H Hex

B Both Directions

N Grease Nipple

Note: More types available quick reference only

K64/12 - K64/14, EK64/12 - EK64/14 CAM TYPE CUT-OUT


ITEM	Series	OD	Type	Part Number
1 Housing	2300	130	K64/12&14RH	21.64.07
	2300	130	K64/12&14LH	21.64.08
	2400	130	K64/12&14RH	35.62.05
	2400	130	K64/12&14LH	35.62.06
2 Housing	PCD	OD		
	118 M10x6	130	EK64/12&14RH	59.42.02
	118 M10x6	130	EK64/12&14LH	59.42.03
	101.5 M8x8	130	EK64/12&14RH	59.42.04
	101.5 M8x8	130	EK64/12&14LH	59.42.05
3 Bolt	M8x22		DIN 933	60.04.23
	M10x25		DIN 933	90.05.55
4 Lock Washer	A8		DIN 127	60.81.00
	A10		DIN 127	60.82.03
5 Flange Yoke		PCD		
	2300	101.5 M8x8		21.66.00
	2300	118 M10x6		21.32.03
	2400	101.5 M8x8		35.27.00
	2400	118 M10x6		35.20.100
6 Flange Yoke				
	2380	118 M10x6		21.32.816

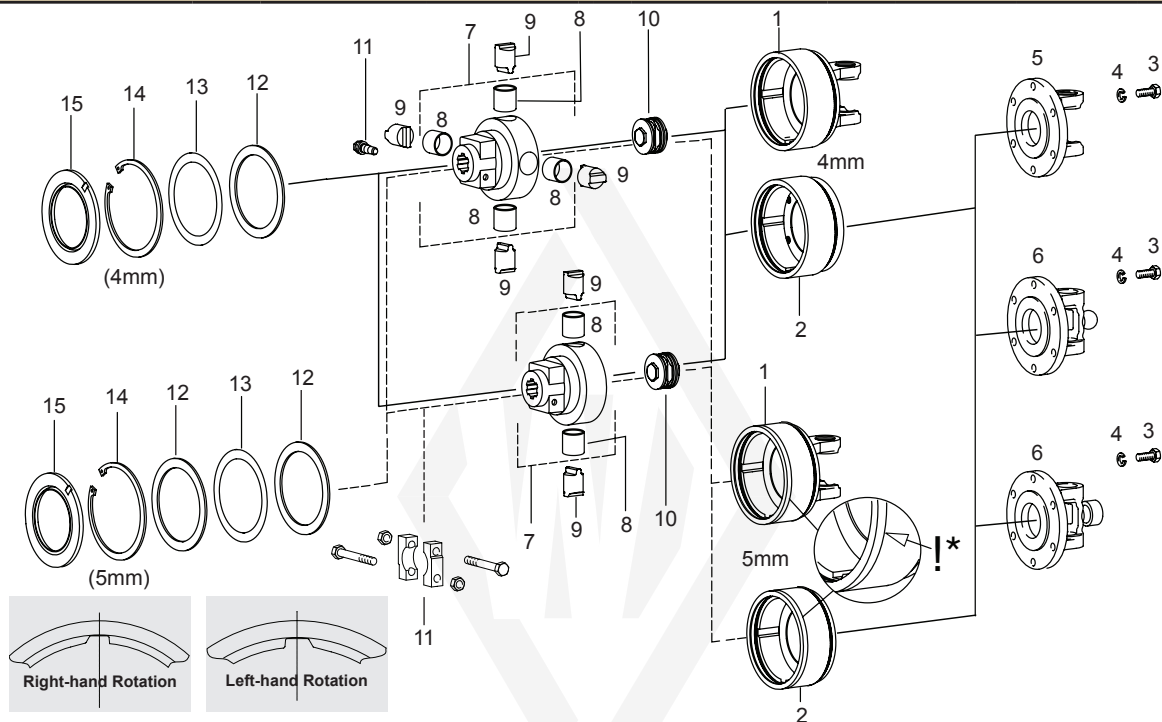
ITEM	Series / Size	Type	Part Number
7 Hub	1 3/8" x 6 CC	K64/12	59.46.00
	1 3/8" x 21 CC	K64/12	59.46.01
	1 3/8" x 6 CC	K64/14	59.46.02
	1 3/8" x 21 CC	K64/14	59.46.03
	35mmx10mm K	K64/14	59.46.102
8 Bush		K64/12&14	16.50.620
9 Cam		K64/12&14	59.43.01
10 Spring Pack	Torque daNm		
	60-90 daNm	64/12	59.27.01
	100-120 daNm	64/12	59.27.02
	120 daNm	64/14	59.27.05
	130-180 daNm	64/14	59.27.03
11 CC Bolt	1 3/8		65.12.06
Refer Page 74 for Locking Device Details			
12 Support Ring		64/12&14	16.20.07
13 Shim Kit		64/12&14	Agraset 151
14 Retaining Ring		64/12&14	62.29.00
15 Sealing Ring		64/12&14	68.18.00

CC Clamp Cone
RH Right Hand

K Keyway
LH Left Hand

Note: More types available quick reference only

K64/22 - EK64/22, K64/24 - EK64/24 CAM TYPE CUT-OUT



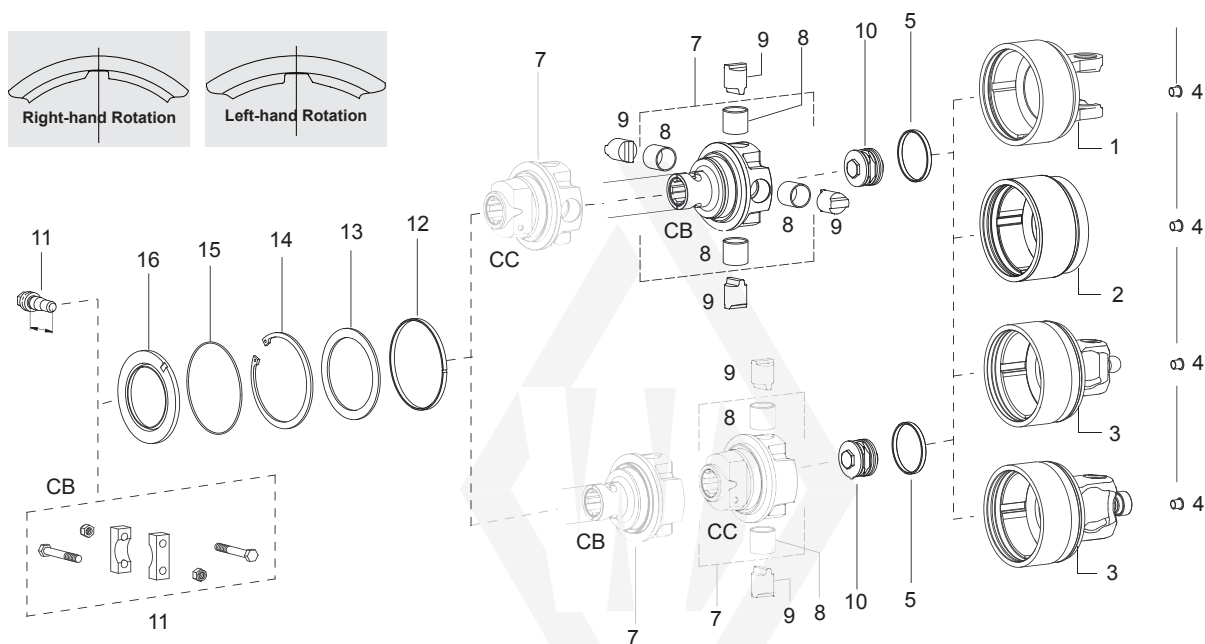
ITEM	Series	D	Type	Part Number
1 Housing	2300	168	K64/22&24RH	21.90.12
	2400	168	K64/22&24RH	35.90.15
	2400	168	K64/22&24LH	35.90.16
	2500	168	K64/22&24RH	36.90.18
	2500	168	K64/22&24LH	36.90.19
	2600	168	K64/22&24RH	26.90.15
	2600	168	K64/22&24LH	26.90.16
	2700	168	K64/22&24RH	27.90.02
	2700	168	K64/22&24LH	27.90.03
2 Housing	PCD	D		
	118 M10x6	168	EK64/22RH	59.22.08
	118 M10x6	168	EK64/22LH	59.22.09
	138 M12x6	168	EK64/22LH	59.22.06
	138 M12x6	168	EK64/22RH	59.22.07
	138 M12x12	168	EK64/24RH	59.22.10
	138 M12x12	168	EK64/24LH	59.22.11
3 Bolt	M10x30		DIN 933	60.05.56
	M12x30		DIN 933	60.06.05
4 Lock Washer	A10		DIN 127	60.82.03
	A12		DIN 127	60.83.02
5 Flange Yoke	2300		PCD = 118	21.32.03
	2400		PCD = 138	35.19.02
	2500		PCD = 138	36.19.02
	2600		PCD = 138	26.15.106
	2700		PCD = 138	27.15.101
6 Flange Yoke	P480		PCD = 138	35.19.310
	P580		PCD = 138	36.19.310
	P675		PCD = 138	26.75.00

ITEM	Series / Size	Type	Part Number
7 Hub	1 3/8" x 6 CC	K64/22	59.26.00
	1 3/8" x 21 CC	K64/22	59.26.08
	1 3/4" x 6 CC	K64/22	59.26.02
	1 3/4" x 20 CC	K64/22	59.26.03
	1 3/8" x 6 CC	K64/24	59.26.11
	1 3/4" x 6 CC	K64/24	59.26.06
	1 3/4" x 20 CC	K64/24	59.26.07
	2 1/4" x 22 CB	K64/24	59.26.19
	52 x 25Spl CB	K64/24	59.26.17
8 Bush		K64/22&24	16.50.618
9 Cam		K64/22&24	59.23.01
10 Spring Pack	Torque daNm		
	130-250 daNm	64/22	59.27.04
	180 fix daNm	64/22	59.27.104
	250-380 daNm	64/24	59.27.00
	400-450 daNm	64/24	59.27.06
11 CC Bolt	1 3/8"		65.12.06
	1 3/4"		65.12.08
CB		Refer Page 74 for Clamp Bridge details	
		Refer Page 74 for Locking Device Details	
12 Support Ring		64/22&24	16.20.81
13 Shim Kit		64/22&24	Agraset 152
14 Retaining Ring	4mm	64/22&24	62.46.00
	5mm	64/22&24	159524
15 Sealing Ring		64/22&24	68.18.01

CC Clamp Cone
RH Right Hand

CB Clamp Bolt
LH Left Hand

Note: !* Uses thicker circlip for higher speeds

K68 / EK68 CAM TYPE CUT-OUT


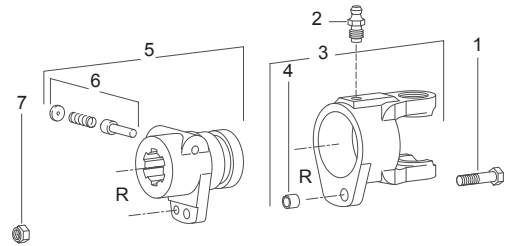
ITEM	Series	D	Type	Part Number
1 Housing	2400	168	K68/22-24RH	35.90.19
	2500	168	K68/22-24RH	36.90.34
	2500	168	K68/22-24LH	36.90.35
	2600	168	K68/22-24RH	26.90.20
	2600	168	K68/22-24LH	26.90.22
2 Housing	PCD	D		
	138 M12	168	EK68/22-24LH	59.28.02
	138 M12	168	EK68/22-24RH	59.28.03
3 Housing	80° 2480	168	K68/22-24RH	35.90.22
	P580	168	K68/22-24RH	36.90.32
	P675	168	K68/22-24RH	26.90.21
4 Plug				159809
5 Ring	80 x 85 x 7.5			16.52.12
7 Hub	1 3/8" x 6 CB		K68/24	59.29.13
	1 3/8" x 21 CB		K68/24	59.29.14
	1 3/4" x 6 CB		K68/24	59.29.11
	1 3/4" x 20 CB		K68/24	59.29.12

ITEM	Series / Size	Type	Part Number
8 Bush		K68/22&24	16.50.721
9 Cam		K68/22&24	59.23.01
10 Spring Pack	Torque daNm		
	150-250 daNm	68/22	59.27.04
	250-380 daNm	68/24	59.27.00
	400-450 daNm	68/24	59.27.06
11 CC Bolt	1 3/8"		65.12.06
	1 3/4"		65.12.08
CB Bridge Refer Page 74 for Clamp Bridge details			
Refer Page 74 for Locking Device Details			
12 Ring	145 x 150 x 7.5	68/22&24	16.52.13
13 Support Ring		68/22&24	16.20.81
14 Retaining Ring	DIN472 150 x 5	68/22&24	159524
15 O Ring	145 x 2.5	68/22&24	159574
16 Sealing Ring		68/22&24	68.18.13

CC Clamp Cone
RH Right Hand

CB Clamp Bolt
LH Left Hand

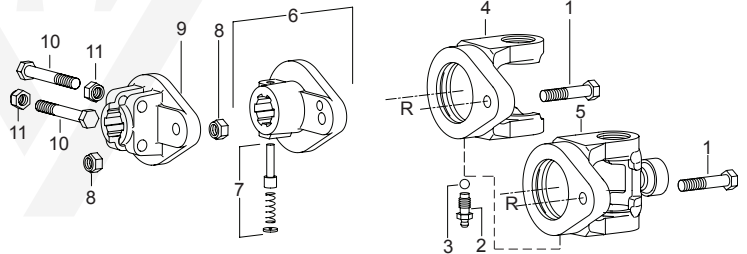
K61/1 SHEARBOLT



Item	Series / Size	Type	Part Number
1 Shearbolt	M6x35-8.8		60.03.15
	M8x35-8.8		60.04.34
2 Lubricator			60.05.102
3 Yoke	2200	R=42x8	20.67.02
4 Bush	M6		61.04.15
	M8		61.05.11

Item	Series / Size	Type	Part Number
5 Hub	1 1/8x6SplQR	R= 42 x 6 & 8	57.17.01
	1 3/8x6SplQR	R= 42 x 6 & 8	57.17.09
6 QR Pin Set			Agraset 101
7 Nut	M6		60.56.02
	M8		60.51.01

KB61/20 SHEARBOLT



ITEM	Series / Size	Type	Part Number
1 Shearbolt	M7x60-8.8		60.11.03
	M8x50-8.8		60.04.06
	M8x60-8.8		60.04.12
	M10x60-8.8		60.05.10
	M12x60-8.8		60.06.07
2 Lubricator			60.05.102
3 Ball	24 pieces		64.01.12
4 Yoke	2300	R=48x8	21.68.00
	2300	R=52x8	21.68.01
	2400	R=48x7	35.68.03
	2400	R=48x8	35.68.02
	2400	R=48x10	35.68.06
	2400	R=56x8	35.68.08
	2400	R=56x10	35.68.05
	2400	R=60x8	35.68.00
	2400	R=64x8	35.68.04
	2500	R=48x10	36.68.04
	2500	R=48x12	36.68.07
	2500	R=56x10	36.68.05
	2500	R=60x8	36.68.01
	2500	R=60x10	36.68.02
	2500	R=64x8	36.68.03
	2500	R=64x10	36.68.08
5 Yoke	P580	R=56x10	36.68.301
6 Hub	1 3/8x6QR	R=48x8 (2300 only)	57.27.18
	1 3/8x6QR	R=52x8 (2300 only)	57.27.02
	1 3/8x6QR	R=48x7	57.27.06
	1 3/8x6QR	R=48x8	57.27.08
	1 3/8x6QR	R=48x10	57.27.24

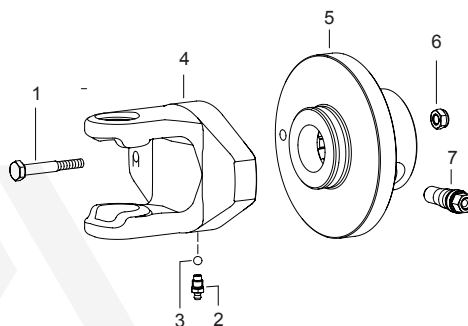
ITEM	Series / Size	Type	Part Number
6 Hub cont.	1 3/8x6QR	R=56x8	57.27.32
	1 3/8x6QR	R=56x10	57.27.16
	1 3/8x6QR	R=64x7	57.27.10
	1 3/8x6QR	R=64x10	57.27.36
	1 3/8x21QR	R=48x10	57.27.12
	1 3/8x21QR	R=56x8	57.27.22
	1 3/4x6QR	R=48x10	57.27.122
	1 3/4x6QR	R=56x10	57.27.155
7 QR Pin Set	1 3/8"		Agraset 101
	1 3/4"		Agraset 102
8 Nut	M7		60.60.01
	M8		60.51.01
	M10		60.52.01
	M12		60.53.03
9 Hub	1 3/8x6CB	R=48x8 (2300 only)	57.26.26
	1 3/8x6CB	R=48x10	57.26.14
	1 3/8x6CB	R=48x12	57.26.34
	1 3/8x6CB	R=56x8	57.26.66
	1 3/8x6CB	R=60x8	57.26.06
	1 3/8x6CB	R=60x10	57.26.02
	1 3/4x6CB	48x10	57.26.52
	1 3/4x6CB	56x10	57.26.12
	1 3/4x6CB	64x8	57.26.08
	1 3/4x6CB	64x10	57.26.40
	1 3/4x20CB	56x10	57.26.54
10 Bolt	M12x65	1 3/8x6Spl	60.06.08
	M16x80	1 3/4x6Spl & 20Spl	60.09.06
11 Nut	M12	1 3/8x6Spl	60.53.03
	M16	1 3/4x6Spl & 20Spl	60.57.02

QR Quick Release

CC Clamp Cone

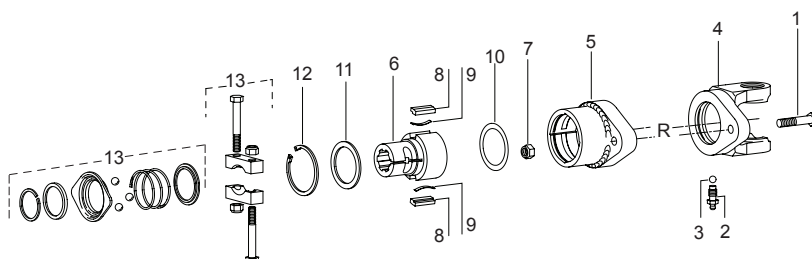
CB Clamp Bolt

B Both Directions

KB61/30 SHEARBOLT


Item	Series / Size	Type	Part Number
1 Shearbolt	M10x70-8.8		60.05.44
	M14x70-8.8		60.07.03
2 Lubricator			60.05.103
3 Ball	32 pieces		64.01.12
4 Yoke	2600	R=75x10	26.68.05
	2600	R=75x14	26.68.01

Item	Series / Size	Type	Part Number
5 Hub	1 3/4x6 CB	R=75x14	57.28.02
	1 3/4x6 CB	R=75x10	57.28.16
	1 3/4x20 CB	R=75x10	57.28.24
6 Nut	M10		60.52.01
	M14		60.62.01
7 CC Bolt	1 3/4"		65.12.08

FKB61/20 R-L SHEARBOLT/FREEWHEEL COMBINATION


Item	Series / Size	Type	Part Number
1 Shearbolt	M10x60		60.05.10
	M12x60		60.06.07
2 Lubricator	M10		60.05.103
3 Ball	24 pieces	5/16"	64.01.12
4 Yoke	2400	R=56x10	35.68.05
	2500	R=56x10	36.68.16
	2500	R=56x10	36.68.05
	2500	R=64x12	36.68.14
5 Housing		R=56x10 RH	57.27.140
		R=56x12 RH	57.27.177
		R=64x12 RH	57.27.175
		R=56x10 LH	57.27.123
6 Hub	1 3/8x6 ZV		56.19.12
	1 3/8x6 CB		56.19.14
	1 3/4x6 CB		56.19.15
	1 3/4x20 CB		56.19.19
	40mm x 12 K		56.19.236

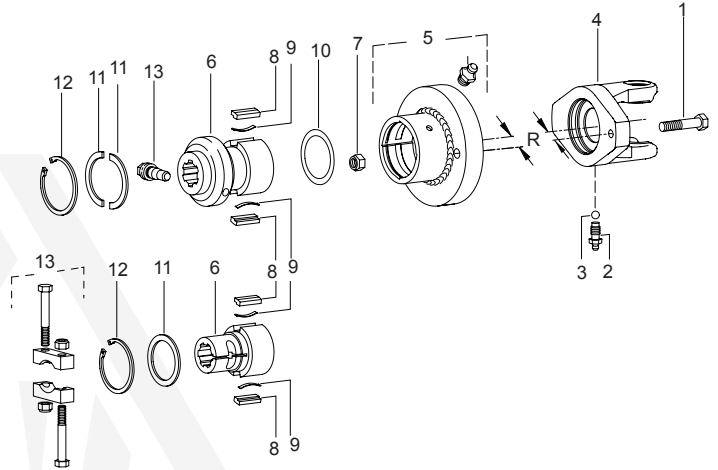
Item	Series / Size	Type	Part Number
7 Nut	M10	DIN 985	60.52.01
	M12	DIN 985	60.53.03
8 Key	13x7x38		16.50.35
9 Leaf Spring	36x5		66.19.01
10 Shim	56x72		116141
11 Support	60x72		16.20.160
	56x72		16.20.67
12 Retainer	72x2.5		62.14.01
13 Locking Collars			
Bridge	For hubs 1 3/8"		16.20.51
	For hubs 1 3/4"		16.20.99
Collar	For hubs 1 3/8"		Agraset 108
Refer Page 74 for Locking Device Details			

ZV Oval Pull Back Collar
RH Right Hand

CB Clamp Bolt
LH Left Hand

CC Clamp Cone
K Keyway

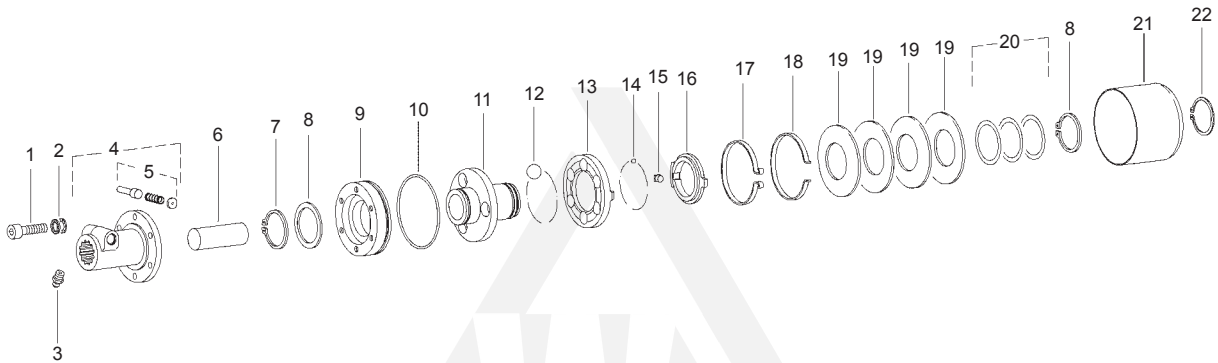
FKB61/30 SHEARBOLT OVERRUNNING CLUTCH



Item	Series / Size	Type	Part Number
1 Shearbolt	M12x70	DIN 931	60.06.09
2 Lubricator	M10		60.05.103
3 Ball	32 pieces	5/16"	64.01.12
4 Yoke	2600	R=75x12	26.68.07
5 Housing	FKB30R	R=75x12 RH	57.68.10
6 Hub		1 3/4x6 CC H	59.19.69
		1 3/4x20 CC H	56.19.60
		1 3/4x20 CB	56.19.32
7 Nut	M12	DIN 985	60.53.03
8 Key	13x7x61.5		16.50.43

Item	Series / Size	Type	Part Number
9 Leaf Spring	48x5		66.19.00
10 Shim	56x72		116.141
11 Support	59.8x72x3		16.20.170
	56x72		16.20.67
12 Retainer	72x2.5		62.14.01
13 Locking Collars			
Bridge	For hubs 1 3/4"		16.20.99
CC Bolt	1 3/4"		65.12.08
Refer Page 74 for Locking Device Details			

K62/0 FRICTION CLUTCH



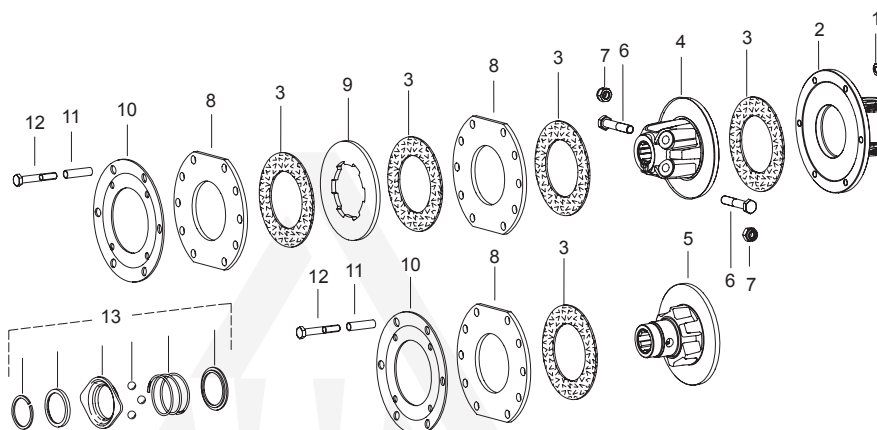
Item	Series / Size	Type	Part Number
1 Bolt SHCS	M8x30	DIN 912	60.04.03
2 Washers	M8		60.77.02
3 Lubricator	M8x1		63.12.01
4 Flanged Hub	1 3/8" x 21Spl QR		16.50.661
5 QR Pin Set		Agraset 101	
6 Tube			16.50.678
7 Retainer Ring	50x3		62.41.103
8 Support Ring	50x62x3		16.20.218
9 Drive Plate	84xM8x6	K62/0	59.00.115
10 O Ring	96x3		55.38.00
11 Hub	1 3/8" x 21Spl	K62/0-1	59.14.138

Item	Series / Size	Type	Part Number
12 Ball	DIN5401-20-111	Qty=3	64.01.08
13 Shifting Plate	102x12	K62/0	59.01.06
14 Ball	DIN5401-6-111	Qty=35	64.01.18
15 Bolt	9x9.5		16.50.658
16 Shifting Ring	4.1mm		59.02.08
17 Shift Spring			66.20.05
18 Shift Spring			66.20.06
19 Belleville Spring	100x51x3.5		66.06.103
20 Shim Kit	50x62		Agraset 181
21 Housing		K62/0	59.03.07
22 Retainer Ring	48x1.75		62.41.104

CB Clamp Bolt
RH Right Hand

CC Clamp Cone
LH Left Hand

QR Quick Release
H Hardened

K90TF & K90/4TF FRICTION CLUTCH


Item	Series / Size	Type	Part Number
1 Nut	M10	DIN 934	60.52.00
2 Flange Yoke	2300		21.73.102
	2400		35.73.106
	2500		36.73.105
3 Friction Lining	91x150x3		56.73.08
4 Hub	1 3/8"x6Spl CB		56.98.01
5 Hub	1 3/8"x6Spl ZV		
6 Bolt	M12x65	DIN 931	60.06.08
7 Nut	M12	DIN 985	90.06.09

Item	Series / Size	Type	Part Number
8 Drive Plate			56.94.00
9 Drive Plate	189x91x7		56.93.00
10 Belleville Spring			
	Refer chart below for part and correct torque settings		
11 Tube			Refer chart below for part listing
12 Bolt	M10x65	DIN 931	
13 Locking Device ZV			Agraset 108
	Refer page 74 for locking device details		

K90TF & K90/4TF TORQUE SETTING CHART
K90TF TORQUE VALUES (da Nm)

Item	Torque	500	600	750	900
10	Part Number	56.12.11	56.12.12	56.12.13	56.12.14
	Tube Length (mm)	24.3	24.3	24.8	24.8
11	Part Number	16.50.757	16.50.757	16.50.757	16.50.757

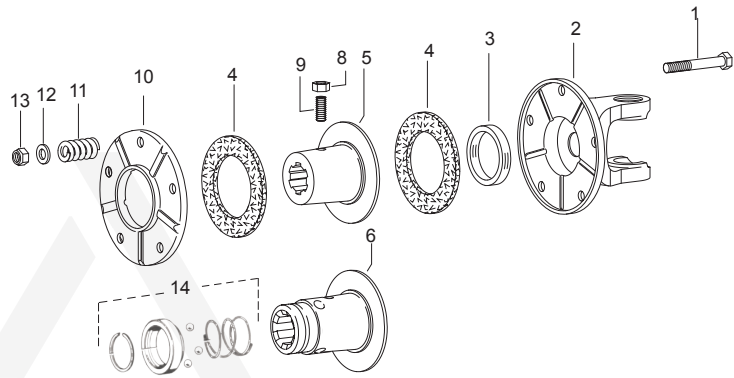
K90/4TF TORQUE VALUES (da Nm)

Item	Torque	1100	1350	1650	2100	2500
10	Part Number	56.12.11	56.12.12	56.12.13	56.12.14	56.12.15
	Tube Length (mm)	44.3	44.3	44.8	44.8	45.3
11	Part Number	16.50.758	16.50.758	16.50.758	16.50.758	16.50.758

CB Clamp Bolt

ZV Oval Pull Back Collar

K94/1 FRICTION CLUTCH

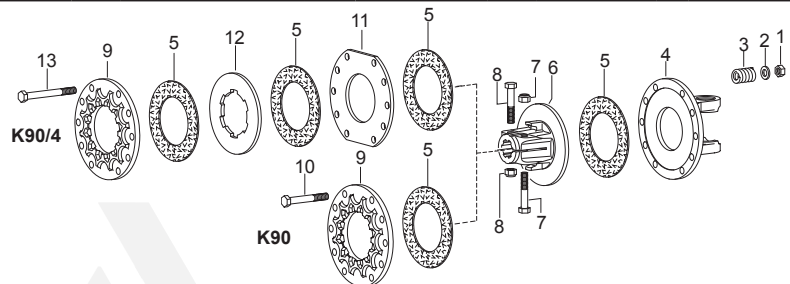


Item	Series / Size	Type	Part Number
1 Bolt	M8x60		60.04.12
2 Housing	2100 D=120	K94/1	10.34.121
	2200 D=120	K94/1	20.15.179
3 Bush			16.52.05
4 Friction Lining	56x90	K94/1	56.73.13
5 Hub	1 1/8" x 6Spl	K94/1	16.50.413
	1 3/8" x 6Spl	K94/1	16.50.423
	30mmx8mmK GS	K94/1	16.50.414
6 Hub	1 1/8x6 AS	K94/1	16.50.494
	1 3/8x6 ZV	K94/1	16.50.555

Item	Series / Size	Type	Part Number
7 Hub	30mm Vicon	K94/1	16.50.415
7A Hub	30mmx10mm PH	K94/1	16.50.480
8 Nut	M10		60.52.00
9 Grub Screw	M10x20	1 1/8 - 1 3/8	60.05.51
	M10x20	30mm	60.05.50
10 Thrust Plate		K94/1	16.20.69
11 Spring			66.01.47
12 Washer			60.77.00
13 Nut		M8	60.51.01
14 AS Locking Collar Set		1 1/8" x 6Spl	Agraset 140
		1 3/8" x 6Spl	Agraset 173

Refer Page 74

K90 K90/4 FRICTION CLUTCH



Item	Series / Size	Type	Part Number
1 Nut	M12		60.53.07
2 Washer	A13		60.75.01
3 Spring			66.01.53
4 Flange Yoke	2300		21.73.01
	2400		35.73.01
	2500		36.73.01
	2600		26.73.01
5 Friction Lining	91 x 150		56.73.08
6 Flange Hub	1 3/8" x 6 CB	K90	56.90.04
	1 3/8" x 21 CB	K90	56.90.06
	1 3/4" x 6 CB	K90	56.90.08
	1 3/4" x 20 CB	K90	56.90.10

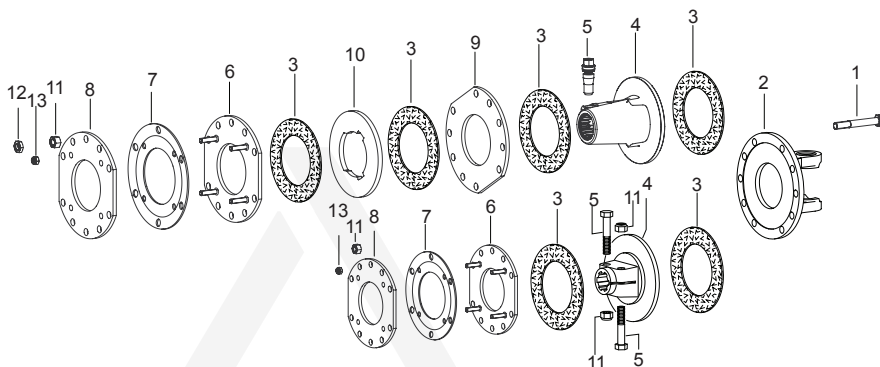
Item	Series / Size	Type	Part Number
6 Flange Hub	1 3/8" x 6 CB	K90/4	56.91.00
	1 3/8" x 21 CB	K90/4	56.91.02
	1 3/4" x 6 CB	K90/4	56.91.04
	1 3/4" x 20 CB	K90/4	56.91.06
	1 1/2" x 3/8" K	K90/4	56.91.1500
7 Nut	M12		60.53.03
8 Bolt	M12x60		60.06.08
9 Back Plate			56.92.00
10 Bolt	M12x90	K90	60.06.32
11 Drive Plate		K90/4	56.93.00
12 Drive Plate		K90/4	56.94.00
13 Bolt	M12x115	K90/4	60.06.51

ZV Oval Pull Back Collar
K Keyway

CB Clamp Bolt
PH Pin Hole

AS Ball Collar

K90T K90/4T FRICTION CLUTCH

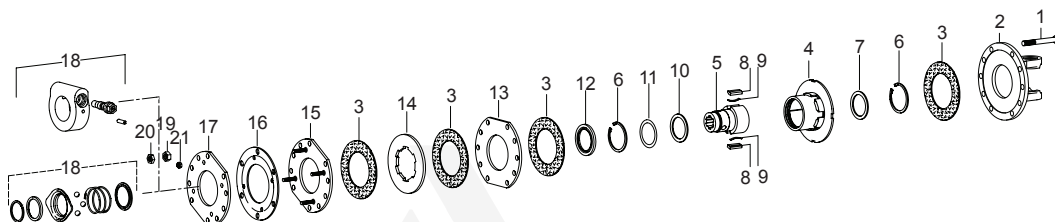
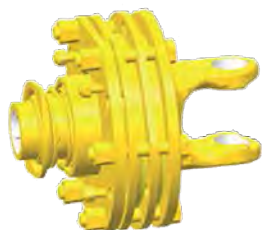


Item	Series / Size	Type	Part Number
1 Bolt	M12x65	DIN 931	60.06.08
	M12x1.25x90	DIN 960	60.06.32
2 Flange Yoke	2400	K90/4T	35.73.102
	2500	K90/4T	36.73.102
3 Friction Lining	91 x 150		56.73.08
4 Flange Hub	1 3/8"x6Spl CB	K90T	56.91.00
	1 3/8"x6Spl CC	K90/4T	56.91.13
	1 3/4"x20Spl CC	K90/4T	56.91.12
5 Bolt	M12x60	K90T DIN 931	60.06.07
	CC	1 3/8 or 1 3/4	

Refer Page 74 for Locking Device Details

Item	Series / Size	Type	Part Number
6 Thrust Plate	167mm PCD	189x91x40	56.93.03
7 Belleville Spring		187x100x2.8	66.12.00
		187x100x3.5	66.12.02
8 Back Plate		189x91x7	56.93.04
9 Drive Plate		189x91x7	56.93.00
10 Drive Plate		153.3x80.5x9	56.94.01
11 Nut	M12	DIN 985	010490
	M12x1.25	DIN 934	123593
12 Nut	M12x1.25	DIN 439	123594
13 Nut	M8	DIN 985	020575
	M8	ISO 7042	158705

FK90/4TR FK90/4TL FRICTION OVERRUN CLUTCH



Item	Series / Size	Type	Part Number
1 Bolt	M12x1.25x90	DIN 960	60.06.32
2 Flange Yoke	2400		35.73.104
3 Friction Lining	100x152x3		56.73.21
4 Housing	FK90/4TR	RH	58.60.117
	FK90/4TL	LH	58.60.118
5 Hub	1 3/8"x6Spl ZV		56.19.37
	1 3/8"x6Spl CC		56.19.63
6 Retainer	72x2.5		62.14.01
7 Support Ring	56x72x3		16.20.67
8 Key	13x7x49.5		16.50.25
9 Leaf Spring	48x5		66.19.00
10 Support Ring	56x72x1.5		16.20.225
11 Shim	56x72		Agraset 150

Item	Series / Size	Type	Part Number
12 Sealing Ring	80x55.3x6		68.18.02
13 Drive Plate	189x100x7		56.93.05
14 Drive Plate	153.5x88.3x6		56.34.07
15 Thrust Plate	189x91x40		56.93.03
16 Belleville Spring	187x100x3.5		66.12.02
17 Back Plate	189x91x7		56.93.04
18 Locking Device	ZV		Agraset 108
	CC Collar		65.13.00
	CC Bolt		65.12.10
Refer Page 74 for Locking Device Details			
19 Nut	M12x1.25	DIN 934	123593
20 Nut	M12x1.25	DIN 439	123594
21 Nut	M8	ISO 7042	158705

CB Clamp Bolt
RH Right Hand

CC Clamp Cone
LH Left Hand

ZV Oval Pull Back Collar

K92 EK92 K92/4 EK92/4 FRICTION CLUTCH



K92



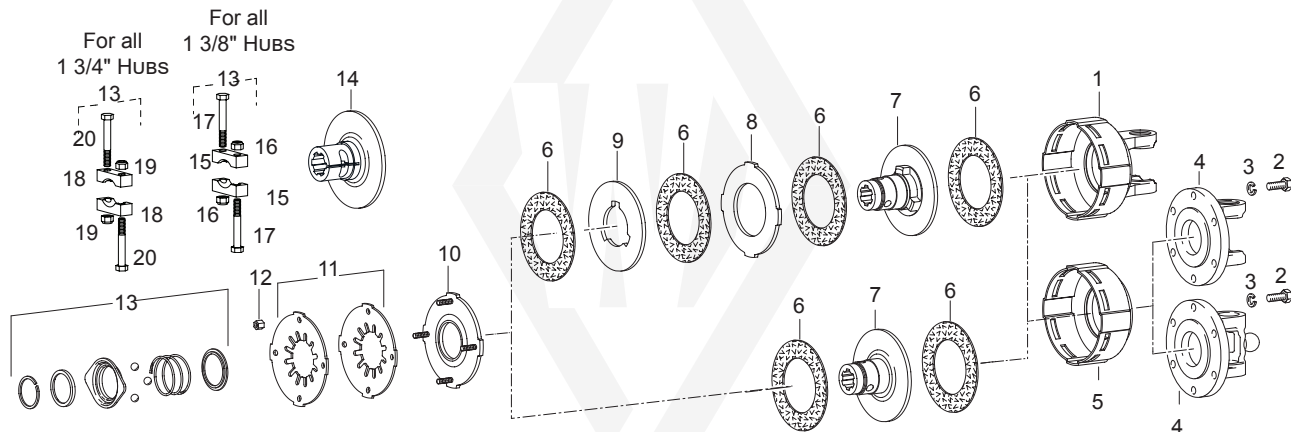
EK92



EK92/4



K92/4



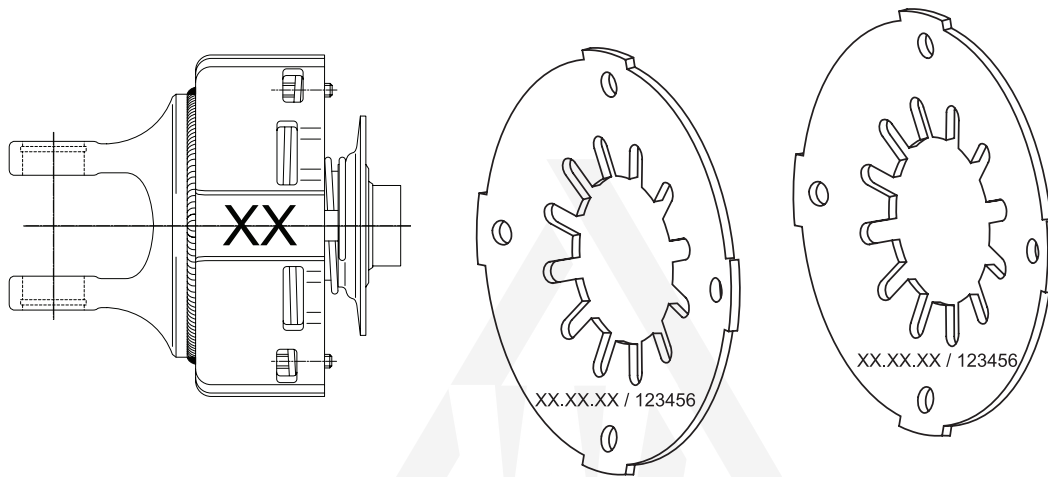
ITEM	Series	Type	D = PCD	Part Number
1 Housing	2200	K92		20.31.32
	2300	K92		21.31.17
	2400	K92		35.31.21
	2300	K92/4		21.64.02
	2400	K92/4		35.62.01
	2500	K92/4		36.62.01
2 Bolt	M8X18	K92		60.04.18
	M10X25	K92/4		60.05.55
	M12X25			60.06.52
3 Lock Washer	A8	K92		60.81.00
	A10	K92/4		60.82.03
	A12			60.83.02
4 Flange Yoke	2300		118	21.32.03
	2400		138	35.19.02
	2600		138	36.19.02
5 Housing		EK92/4	118	56.65.07
		EK92/4	138	56.65.08
6 Friction Lining	91x150			56.73.08
7 Hub	1 3/8"x6Spl ZV	K92		56.64.09
	1 3/8"x21Spl ZV	K92		56.64.10
	1 3/8"x6Spl QR	K92/4		56.64.232
	1 3/8"x6Spl ZV	K92/4		56.64.12
	1 3/8"x21Spl ZV	K92/4		56.64.13
8 Drive Plate		K92/4		56.66.02

ITEM	Series / Size	Type	Part Number
9 Drive Plate		K92/4	56.67.01
10 Thrust Plate			56.66.19
11 Belleville Spring			66.16.01
			66.09.02
			66.09.00
			66.10.00
			66.10.01
			66.16.00
Refer Page 63 for Torque Settings			
12 Nut	M8		60.51.09
13 Locking Device		ZV	Agraset 108
	Mini Pin	QR	Agraset 132
		CB	
Refer Page 74 for Locking Device Details			
14 Hub	1 3/8" x 6Spl CB	K92/4	56.64.147
	1 3/4" x 6Spl CB	K92/4	56.64.168
	1 3/4" x 20Spl CB	K92/4	56.64.183
	35mm x 10mm K	K92/4	56.64.189
15 Bridge	1 3/8	(2 Pieces)	16.20.51
16 Nut	M12	(2 Pieces)	60.53.03
17 Bolt	M12x85	(2 Pieces)	60.06.11
18 Bridge	1 3/4	(2 Pieces)	16.20.99
19 Nut	M16	(2 Pieces)	60.57.02
20 Bolt	M16x110	(2 Pieces)	60.09.11

QR Quick Release
K Keyway

ZV Oval Pull Back Collar

CB Clamp Bolt

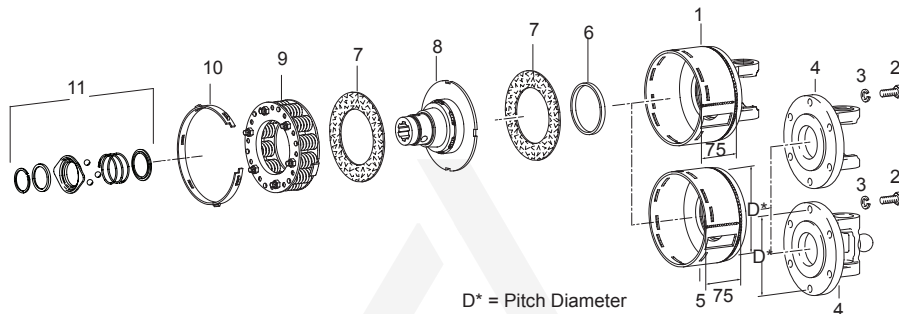
K92 K92/4 TORQUE SETTING CHART

K92 TORQUE SETTING CHART (da Nm)

Torque	20	30	45	55	65	75	90	100	
Part Number	66.16.00	66.09.00	66.10.00	66.09.00	66.09.00	66.09.00	66.10.00	66.10.00	
	-	-	-	66.16.00	66.09.00	66.10.00	66.10.00	66.10.01	

K92/4 TORQUE SETTING CHART (da Nm)

Torque	65	75	80	95	105	120	135	150	165
Part Number	66.16.01	66.16.01	66.16.01	66.16.00	66.09.02	66.10.00	66.09.02	66.09.00	66.09.02
	66.16.01	66.16.00	66.09.02	66.09.00	66.09.00	66.16.00	66.10.00	66.10.00	66.10.01

K96 EK96 FRICTION CLUTCH

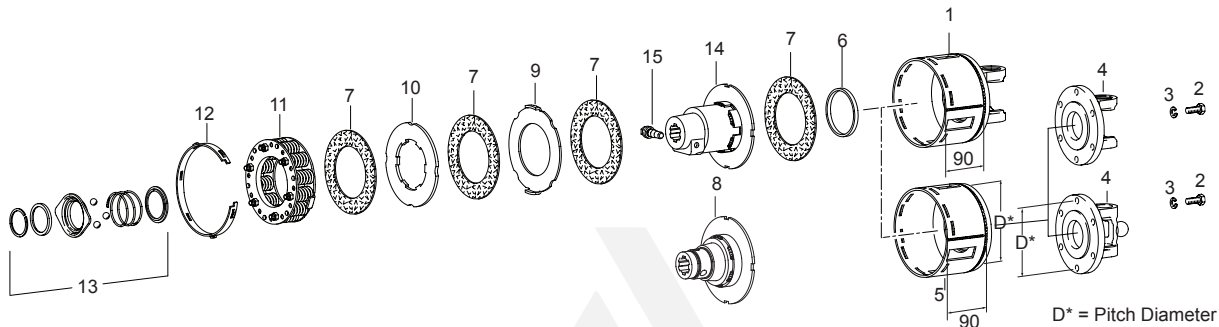


D* = Pitch Diameter

ITEM	Series / Size	Type	Part Number
1 Housing	2300		21.90.01
	2400		35.90.01
2 Bolt	M10x30		60.05.56
	M12x30		60.06.05
3 Lock Washer	A10		60.82.03
	A12		60.83.02
4 Flange Yoke	2300	D= 118	21.32.03
	2400	D= 138	35.19.02
5 Housing	D = 118		56.39.00
	D = 138		56.39.01

ITEM	Series / Size	Type	Part Number
6 Ring			16.52.06
7 Friction Lining	100 x 157		56.73.12
	100 x 157	sintered	56.73.102
8 Hub	1 3/8x6 ZV		56.30.00
9 Spring Pack	see Chart Page 65		56.35.01
10 Setting Ring			56.36.00
11 Locking Collar Set	Refer Page 74		Agraset 108

K96/4 EK96/4 FRICTION CLUTCH



D* = Pitch Diameter

ITEM	Series / Size	Type	Part Number
1 Housing	2300		21.90.02
	2400		35.90.02
	2500		36.90.02
	2600		26.90.02
2 Bolt	M10x30		60.05.56
	M12x30		60.06.05
3 Lock Washer	A10		60.82.03
	A12		60.83.02
4 Flange Yoke	2300	D= 118	21.32.03
	2400	D= 138	35.19.02
	2500	D= 138	36.19.02
	2600	D= 138	26.15.106
5 Housing	D = 118		56.39.02
	D = 138		56.39.03
6 Ring			16.52.06

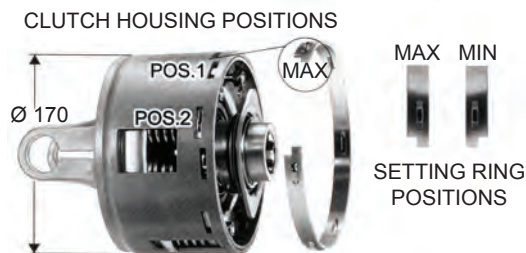
ITEM	Series / Size	Type	Part Number
7 Friction Lining	100 x 157		56.73.12
	100 x 157	Sintered	56.73.102
8 Hub	1 3/8x6 ZV		56.31.00
	1 3/8x21 ZV		56.31.06
9 Drive Plate			56.34.03
10 Drive Plate			56.34.02
11 Spring Pack	Refer Page 65		56.35.01
12 Setting Ring			56.36.00
13 Locking Collar Set	Refer Page 74		Agraset 108
14 Hub	1 3/8x6 CC		56.31.22
	1 3/4x6 CC		56.31.18
	1 3/4x6 CB		56.31.16
	1 3/4x20 CC		56.31.20
15 CC Bolt	1 3/8		65.12.06
	Refer Page 74	1 3/4	65.12.08

ZV Oval Pull Back Collar

CB Clamp Bolt

CC Clamp Cone

SPRING PACK (K96 EK96 K96/4 EK96/4)



The TORQUE setting can be modified with the aid of a setting ring and two alternative slots in clutch housing.

- **Setting Ring**
MIN or MAX depending on direction inserted.
- **Clutch Housing**
POS. 1 or POS. 2 depending on slot used
For each Spring pack 4 torque settings are possible.
*Level II is the optimal position.

TORQUE (daNm)

K 96				K 96/4				SPRING PACK MARKING	PART NUMBER
I	II*	III	IV	I	II*	III	IV		
15	20	23	25	35	40	45	50	20/40	56.35.01
26	30	34	38	53	60	68	75	30/60	
35	40	45	50	70	80	90	100	40/80	
-	-	-	-	80	90	105	115	/90	
45	50	58	63	88	100	115	128	50/100	
-	-	-	-	95	110	125	140	/110	
53	60	70	78	105	120	138	153	60/120	
-	-	-	-	120	135	155	173	/135	
65	75	85	95	133	150	173	190	75/150	
-	-	-	-	145	165	190	210	/165	
80	90	103	115	158	180	208	230	90/180	
90	105	118	130	180	210	235	260	105/210	

CLUTCH LEVEL

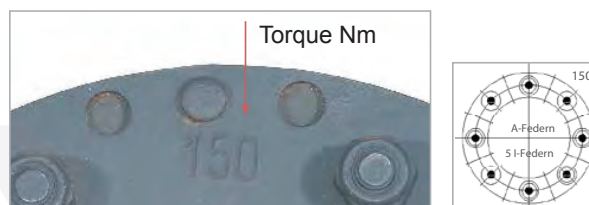
LEVEL	%	SETTING RING	CLUTCH HOUSING
I	70	MIN	POS.1
II *	80	MAX	POS.1
III	90	MIN	POS.2
IV	100	MAX	POS.2

ZV Oval Pull Back Collar

CC Clamp Cone

SPRING PACK (EK97/4 EK97/6)

CLUTCH HOUSING POSITIONS



Examples of Spring Assembly

The TORQUE setting can be modified with the aid of a setting ring and two alternative slots in clutch housing.

- **Setting Ring**
MIN or MAX depending on direction inserted.
- **Clutch Housing**
POS. 1 or POS. 2 depending on slot used
For each Spring pack 4 torque settings are possible.
*Level II is the optimal position.

EK 97/4				EK 97/6				SPRING PACK MARKING	PART NUMBER
I	II*	III	IV	I	II*	III	IV		
120	135	155	173					135	56.45.00
133	150	173	190					150	
145	165	190	210					165	
158	180	208	230					180	
170	195	225	247					195	
180	210	235	260					210	
-	-	-	-	210	230	260	290	230	
210	240	275	310					240	
237	270	310	350					270	
265	300	345	390					300	

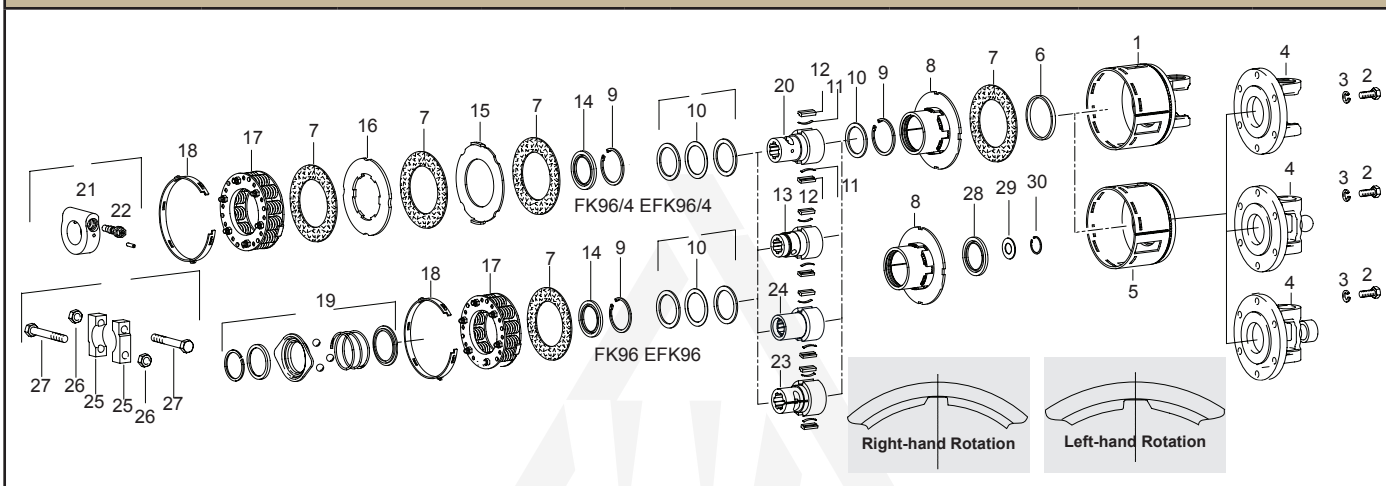
CLUTCH LEVEL

LEVEL	%	SETTING RING	CLUTCH HOUSING
I	70	MIN	POS.1
II *	80	MAX	POS.1
III	90	MIN	POS.2
IV	100	MAX	POS.2

ZV Oval Pull Back Collar

CC Clamp Cone

FK96 EFK96 FK96/4 EFK96/4 COMBINED FRICTION & OVERRUNNING



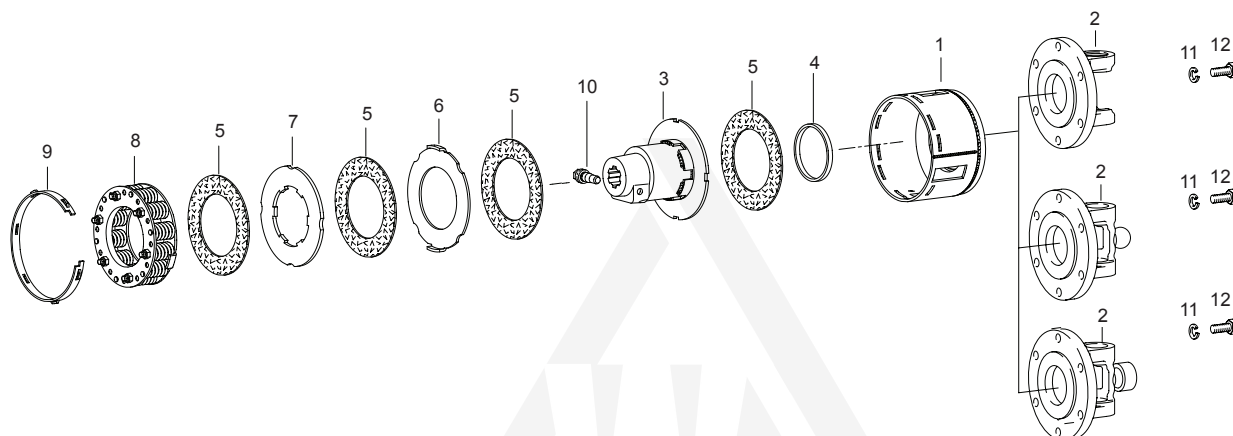
ITEM	Series / Size	Type	Part Number
1 Housing	2300 L=75	FK96	21.90.01
	2400 L=75	FK96	35.90.01
	2500 L=75	FK96	36.90.01
	2400 L=90	FK96/4	35.90.02
	2500 L=90	FK96/4	36.90.02
	2600 L=90	FK96/4	26.90.02
2 Bolt	M10 x 30		60.05.56
	M12 x 30		60.06.05
3 Lock Washer	A10		60.82.03
	A12		60.83.02
4 Flange Yoke	2400	PCD=138	35.19.02
	2500	PCD=138	36.19.02
	2600	PCD=138	26.15.106
5 Housing	D=118 L=75	EFK96	56.39.00
	D=138 L=75	EFK96	56.39.01
	D=138 L=90	EFK96/4	56.39.03
6 Ring			16.52.06
7 Friction Lining	100 x 157		56.73.12
	100 x 157	sintered	56.73.102
8 Housing		RH	58.60.40
		LH	58.60.42
		RH ZS	58.60.53
		LH ZS	58.60.54
9 Retaining Ring			62.14.01
10 Support Ring		for 1 3/8 hubs	16.20.67
		for 1 3/4 hubs	16.20.160
11 Leaf Spring	48x5		66.19.00
12 Key	49.5mm		16.50.25
13 Hub		1 3/8x6 ZV	56.19.37
		1 3/8x21 ZV	56.19.43

ITEM	Details	Part Number
14 Sealing Ring	For 1 3/8x6 - 1 3/4x6 hubs	68.18.02
	for 1 3/4x20 hubs	68.18.03
15 Drive Plate	FK96/4 & EFK96/4	56.34.03
16 Drive Plate	FK96/4 & EFK96/4	56.34.02
17 Spring Pack	Refer page 65	56.35.01
18 Setting Ring		56.36.00
19 Locking Collar Set	Refer Page 74	Agraset 108
20 Hub	1 3/8x6 CC	56.19.63
	1 3/8x21 CC	56.19.72
	1 3/4x6 CC	56.19.65
	1 3/4x20 CC	56.19.70
21 Clamping Ring	for 1 3/8 hubs	65.13.00
	Refer Page 74 for 1 3/4 hubs	65.13.01
22 Bolt	for 1 3/8 hubs	65.12.10
	Refer Page 74 for 1 3/4 hubs	65.12.11
23 Hub	1 3/4x20 CB	56.19.68
24 Hub ZS	1 3/8x6 ZS	56.19.316
	1 3/4x6 ZS	56.19.350
	1 3/4x20 ZS	56.19.177
25 Bridge	for 1 3/4 hubs	16.20.99
26 Nut	M16 for 1 3/4 hubs	60.57.02
27 Bolt	M16x110 for 1 3/4 hubs	60.09.11
28 Sealing Ring		68.09.02
29 Washer	1 3/8	60.79.02
	1 3/4	60.79.01
30 Retainer Ring	1 3/8	62.06.04
	1 3/4	62.20.01

CC Clamp Cone
ZV Oval Pull Back Collar

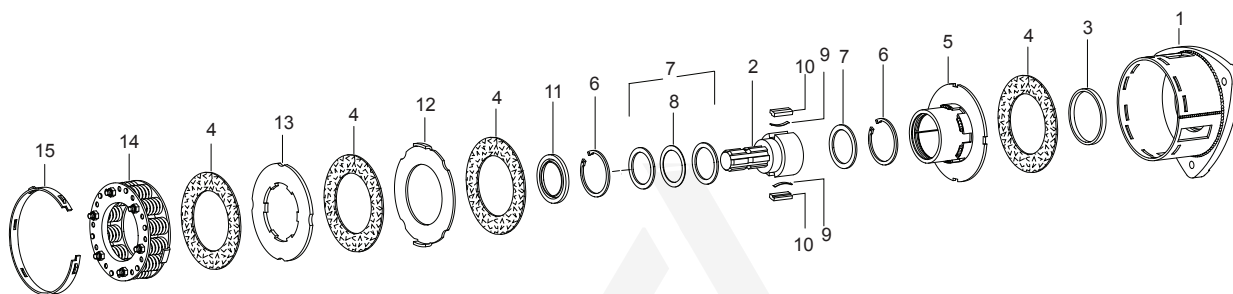
CB Clamp Bolt
RH Right Hand

ZS Inline
LH Left Hand

EK97/4 FRICTION CLUTCH


Item	Series / Size	Type	Part Number
1 Housing	138x12xM12		56.49.02
2 Flange Yoke	STD, 80°, P75°, P80°		
Refer Pages 30-31			
3 Hub	1 3/4x6Spl CC		56.41.04
	1 3/4x20Spl ZS		56.41.100
4 Ring	84.4x92.4x8		16.52.06
5 Friction Lining	120x185x3		56.73.11

Item	Series / Size	Type	Part Number
6 Drive Plate			56.44.03
7 Drive Plate			56.44.02
8 Spring Pack	Refer Page 65		56.45.00
9 Setting Ring			56.46.00
10 Bolt CC	1 3/4		65.12.08
11 Lock Washer	A12	DIN 127	60.83.02
12 Bolt	M12 x 30	DIN 933	60.06.05

PFK96/4 FRICTION OVERRUN / MOUNTING PLATE CLUTCH


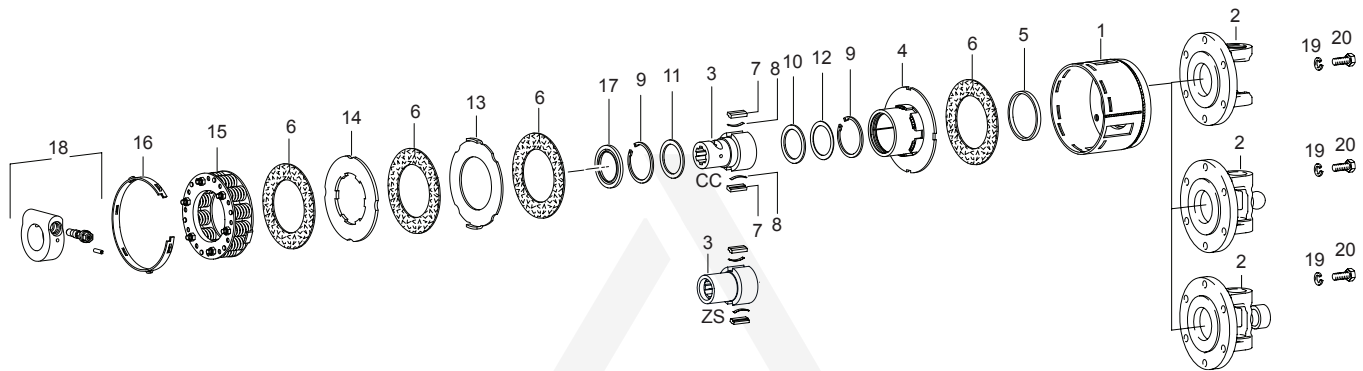
Item	Series / Size	Type	Part Number
1 Housing	203mm		56.39.05
	250mm		56.39.106
	280mm		56.39.108
2 Hub	1 3/8" x 6Spl		56.19.178
	1 3/4" x 6Spl		56.19.170
3 Ring	84.4x92.4x8		16.52.06
4 Friction Lining	100x157x3		56.73.12
5 Housing	RH		58.60.40
6 Retainer	72x2.5	DIN 472	62.14.01

Item	Series / Size	Type	Part Number
7 Support Ring	56x72	DIN 988	16.20.67
8	56x72		Agraset 150
9 Leaf Spring	48x5		66.19.00
10 Key	13x7x49.5		16.50.25
11 Sealing Ring	80x55x6		68.18.02
12 Drive Plate			56.34.03
13 Drive Plate			56.34.02
14 Spring Pack	Refer Page 65		56.35.01
15 Setting Ring			56.36.00

CC Clamp Cone
RH Right Hand

ZS Inline
LH Left Hand

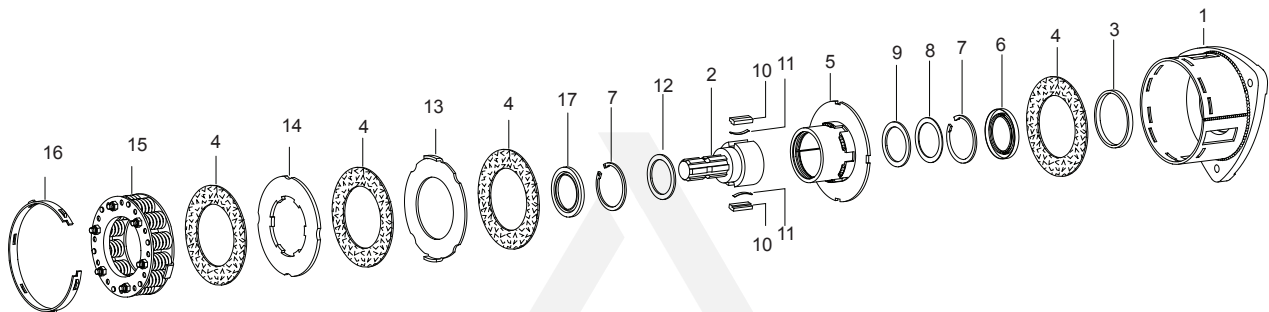
EFK97/4 FRICTION OVERRUN CLUTCH



Item	Series / Size	Type	Part Number
1 Housing	138x12xM12		56.49.02
2 Flange Yoke	STD, 80°, P75°, P80°		
Refer Pages 30-31			
3 Hub	1 3/4x6Spl CC		56.19.65
	1 3/4x20Spl CC		56.19.70
	1 3/4x20Spl ZS		56.19.177
4 Housing		RH	58.60.106
5 Ring	84.5x92.4x8		16.52.06
6 Friction Lining	120x185x3		56.73.11
7 Key	13x7x49.5		16.50.25
8 Leaf Spring	48x5		66.19.00
9 Retainer	72x2.5	DIN 472	62.14.01

Item	Series / Size	Type	Part Number
10 Support Ring	56x72x3	DIN988	16.20.67
11 Support Ring	60x72x3	DIN988	16.20.160
12 Shim	56x72		Agraset 150
13 Drive Plate			56.44.03
14 Drive Plate			56.44.02
15 Spring Pack	Refer Page 65		56.45.00
16 Setting Ring			56.46.00
17 Sealing Ring	80x59x6		68.18.03
18 Locking Device	CC	1 3/4	
Refer Pages 74			
19 Lock Washer	A12	DIN 127	60.83.02
20 Bolt	M12 x 30	DIN 933	60.06.05

PFK97/4 FRICTION OVERRUN / MOUNTING PLATE CLUTCH

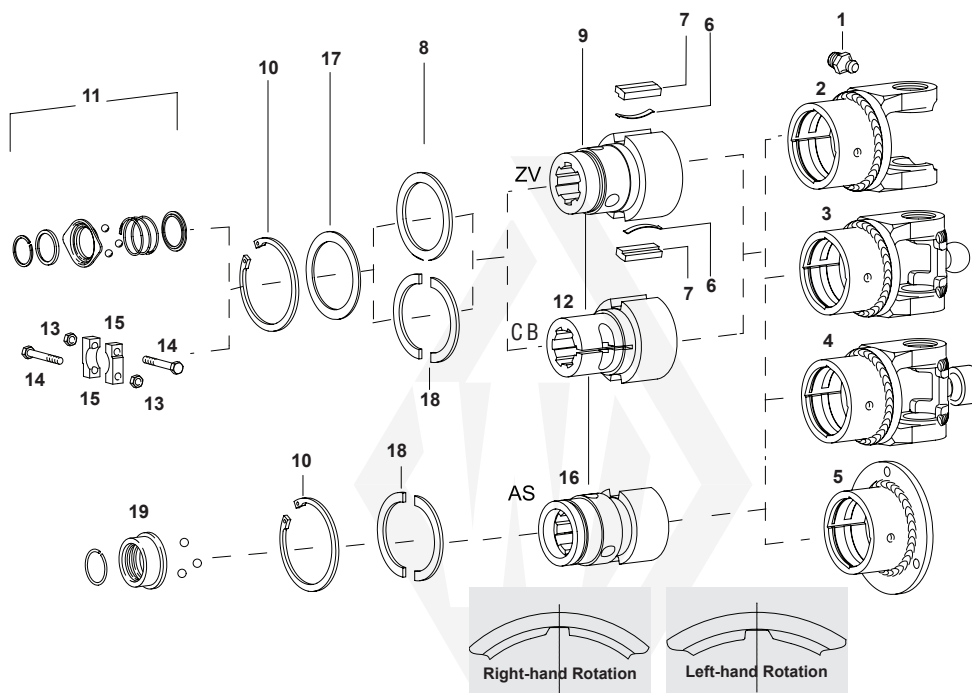


Item	Series / Size	Type	Part Number
1 Housing	240mm		56.49.104
	260mm		56.49.102
	340mm		56.49.105
2 Hub	1 3/4" x 6Spl		56.19.216
3 Ring	84.4x92.4x8		16.52.06
4 Friction Lining	120x185x3		56.73.11
5 Housing	RH		58.60.55
6 Sealing Ring	55x80x8		68.09.02
7 Retainer Ring	72x2.5	DIN 472	62.14.01
8 Agraset 150	56x72		Agraset 150

Item	Series / Size	Type	Part Number
9 Support Ring	56x72x3	DIN 988	16.20.67
10 Key	13x7x61.5		16.50.43
11 Leaf Spring	48x5		66.19.00
12 Support Ring	60x72x3	DIN 988	16.20.160
13 Drive Plate			56.44.03
14 Drive Plate			56.44.02
15 Spring Pack	Refer Page 65		56.45.00
16 Setting Ring			56.46.00
17 Sealing Ring	80x59x6		68.18.03

CC Clamp Cone
RH Right Hand

ZS Inline
LH Left Hand

F5/1 EF5/1 OVERRUNNING CLUTCH (R&L)


ITEM	Series / Size		Type	Part Number
1 Lubricator				63.12.05
2 Housing	2100	RH		55.10.38
	2100	LH		55.10.39
	2200	RH		20.31.44
	2200	LH		20.31.45
	2300	RH		21.31.56
	2300	LH		21.31.60
	2400	RH		35.31.53
	2400	LH		35.31.54
	2500	RH		36.31.26
	2500	LH		36.31.27
3 Housing	2280	RH		20.31.846
	2380	RH		21.31.882
	2380	LH		21.31.881
	2480	RH		35.31.58
	2480	LH		35.31.59
	2580	RH		36.31.353
4 Housing	P480	RH		156026
	P580	RH		36.31.353
5 Housing	EF5/1	RH	101.5x8xM8	56.20.105
	EF5/1	LH	101.5x8xM8	56.20.106
6 Leaf Spring	36mm			66.19.01
7 Key	37.8mm			16.50.35
8 Support Ring	for Hubs 1 3/8			16.20.67
	for Hubs 1 3/4			16.20.160

ITEM	Series / Size		Type	Part Number
9 Hub	1 1/8x6	ZV		56.19.20
	1 3/8x6	ZV		56.19.12
	1 3/8x21	ZV		56.19.13
	25mmx8mm	K		56.19.25
	30mmx8mm	K		56.19.112
	35mmx10mm	K		56.19.136
	40mmx12mm	K		56.19.236
	1 3/8x6	P		56.19.191
10 Retaining Ring	72x2.5	DIN 472		62.14.01
11 Locking Collar Set ZV	Refer to page 74			Agraset 108
12 Hub	1 3/8x6	CB		56.19.14
	1 3/8x21	CB		56.19.16
	1 3/4x6	CB		56.19.15
	1 3/4x20	CB		56.19.19
13 Nut	M12	for Hubs 1 3/8		60.53.03
	M16	for Hubs 1 3/4		60.57.02
14 Bolt	M12x85	for Hubs 1 3/8		60.06.11
	M16x110	for Hubs 1 3/4		60.09.11
15 Bridge			for Hubs 1 3/8	16.20.51
	Refer to page 74		for Hubs 1 3/4	16.20.99
16 Hub	1 3/4x6	AS		56.19.17
	1 3/4x20	AS		56.19.18
17 Shim	56x72x(0.2/0.3)			Agraset 150
18 Support Ring Half	56x72x3	for Hubs 1 3/8		113520
	59.8x72x3	for Hubs 1 3/4		16.20.170
19 Locking Collar Set AS	Refer page 74			Agraset 119

AS Ball Collar

P Pin Hole

RH Right Hand

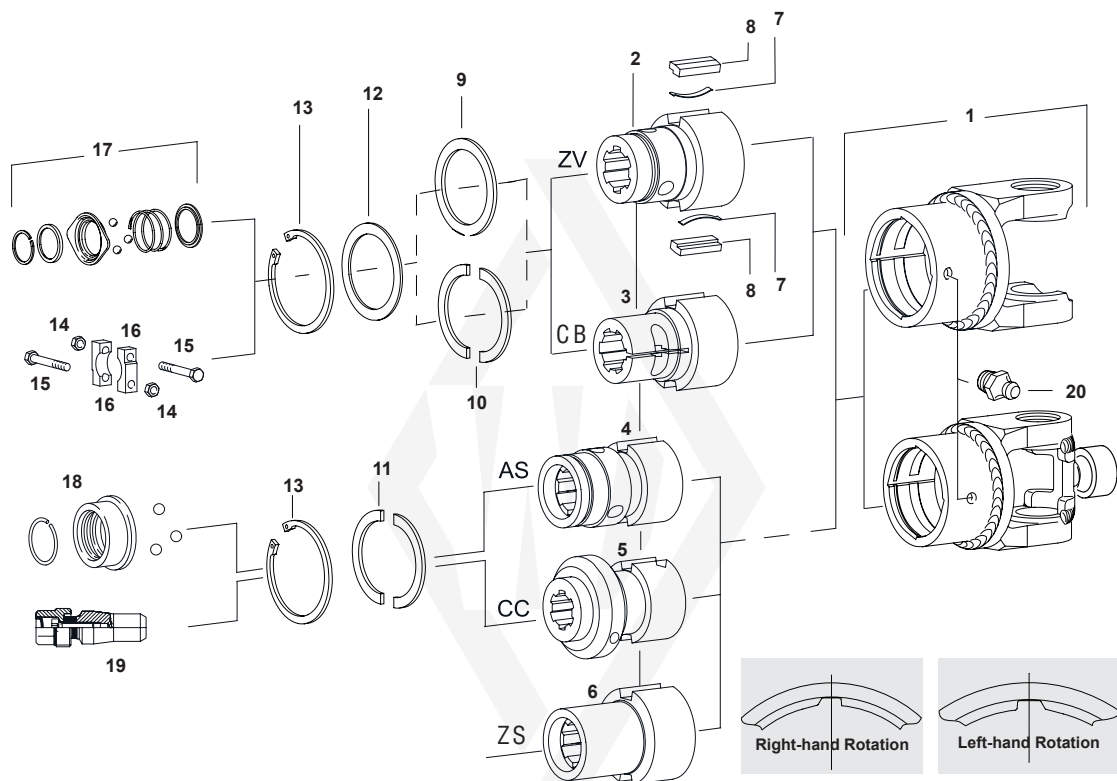
CB Clamp Bolt

ZV Oval Pull Back Collar

LH Left Hand

K Keyway

F5/2 OVERRUNNING CLUTCH (R&L)



ITEM	Series /Size	Type	Part Number
1 Housing	2500	RH	36.31.35
	2500	LH	36.31.36
	2600	RH	26.31.26
	2600	LH	26.31.27
	P675	RH	605199
	P700	RH	27.31.26
	P700	LH	27.31.27
2 Hub	1 3/8x6 ZV		56.19.27
3 Hub	1 3/8x6 CB		56.19.52
	1 3/8x21 CB		56.19.31
	1 3/4x6 CB		56.19.53
	1 3/4x20 CB		56.19.32
4 Hub	1 3/4x6 AS		56.19.29
	1 3/4x20 AS		56.19.30
5 Hub	1 3/8x6 CC		56.19.210
	1 3/4x6 CC H		56.19.69
	1 3/4x20 CC H		56.19.60
6 Hub	1 3/4x6 ZS		56.19.163
7 Leaf Spring	48x5		66.19.00
8 Key	61.5mm		16.50.43

ITEM	Series / Size	Type	Part Number
9 Support Ring	56x72x3	for 1 3/8 Hubs	16.20.67
	59.8x72x3	for 1 3/4 Hubs	16.20.160
10 Support Ring Half	56x72x3	for 1 3/8 Hubs	16.20.159
	59.8x72x3	for 1 3/4 Hubs	16.20.170
11 Support Ring Half	56x72x3	for 1 3/8 Hubs	16.20.159
	59.8x72x3	for 1 3/4 Hubs	16.20.170
12 Shim	56x72		Agraset 150
13 Retaining Ring	72x2.5	DIN 472	62.14.01
14 Nut	M12	for 1 3/8 Hubs	60.53.03
	M16	for 1 3/4 Hubs	60.57.02
15 Bolt	M12x85	for 1 3/8 Hubs	60.06.11
	M16x110	for 1 3/4 Hubs	60.09.11
16 Bridge		for 1 3/8 Hubs	16.20.51
	Refer Page 74	for 1 3/4 Hubs	16.20.99
17 Locking Collar Set ZV		Refer Page 74	Agraset 108
18 Locking Collar Set AS		Refer Page 74	Agraset 119
19 CC Bolt		for 1 3/8 Hubs	65.12.06
		for 1 3/4 Hubs	65.12.08
20 Lubricator	M8.2x1		63.12.05

AS Ball Collar

H Hardened

RH Right Hand

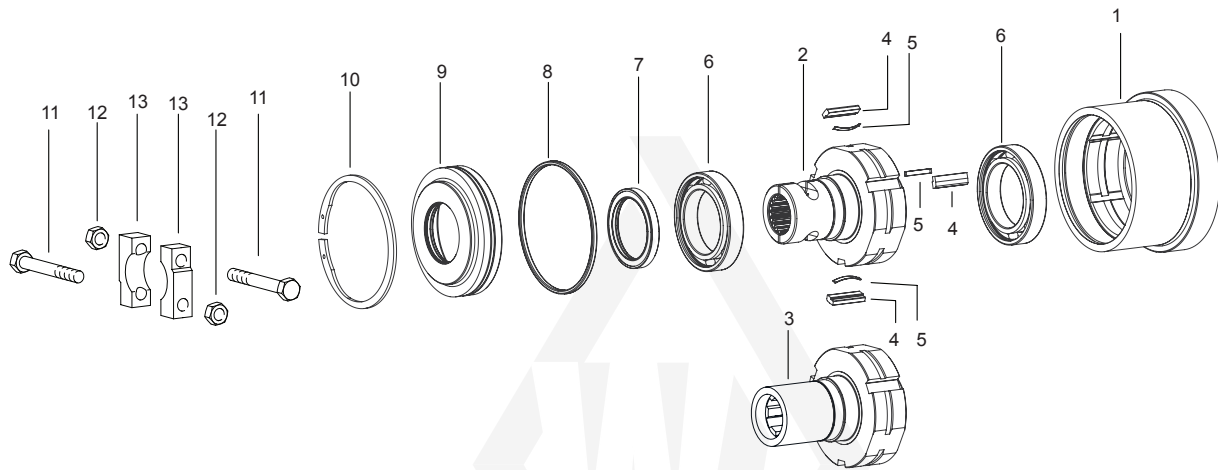
CB Clamp Bolt

ZS Inline

LH Left Hand

CC Clamp Cone

ZV Oval Pull Back Collar

EFB5/3 OVERRUNNING CLUTCH


Item	Series / Size	Type	Part Number
1 Housing	165x8xM12	RH	56.20.32
	165x8xM12	LH	56.20.33
2 Hub	1 3/4" x 6Spl CB H		56.19.357
	1 3/4" x 20Spl CB H		56.19.349
3 Hub	60mm x 28Spl ZS		56.19.347
4 Key	13x7x43.5		16.50.60
5 Leaf Spring	36x5		66.19.01
6 Bearing	6015-2RS C3	DIN 625	136376

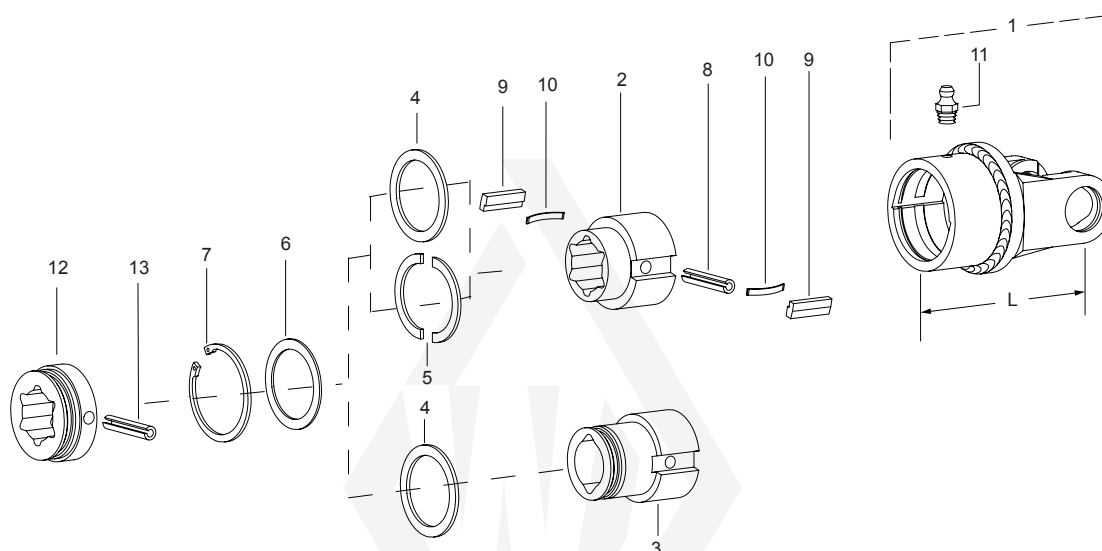
Item	Series / Size	Type	Part Number
7 Sealing Ring	70x90x10		118180
8 O Ring	140x5	70NBR	122363
9 Flange Cover	71x150x33.75		16.50.718
10 Retainer	150x4	DIN 472	364499
11 Bolt	M16x110		60.09.11
12 Nut	M16		60.57.02
13 Clamp Bridge	For 1 3/4" Hub		16.20.99
Refer Page 74			

CB Clamp Bolt
RH Right Hand

ZS Inline
LH Left Hand

H Hardened

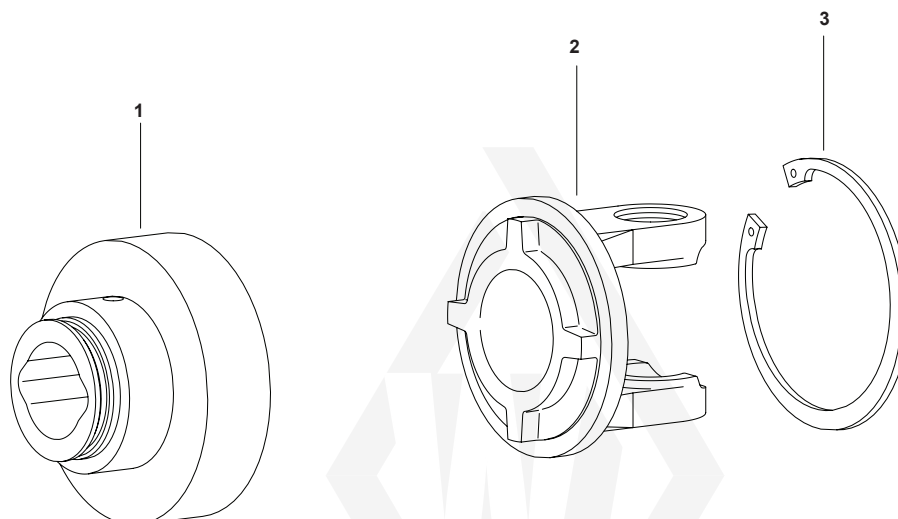
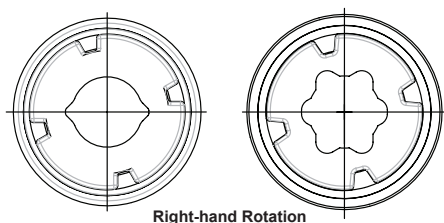
JF5/1- 12 INBOARD OVERRUNNING CLUTCH



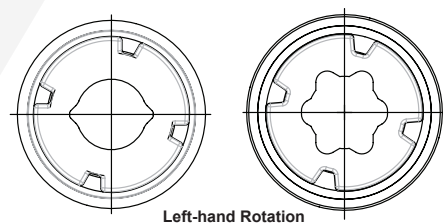
Item	Series / Size	L (mm)	Part Number
1 Housing	2200	97	20.31.130
	2200	97	20.31.129
	2300	107	21.31.62
	2300	107	21.31.61
	2380	107	21.31.882
	2400	115	35.31.127
	2400	115	35.31.27
	2400	115	35.31.129
	2500	124	36.13.123
	2580	124	36.31.141M
2 Hub	1b		56.19.120
	S4		56.19.121
3 Hub	0v		56.19.354
	1		56.19.155

Item	Series / Size	Type	Part Number
4 Support Ring	59.8x72x3	1b/S4	16.20.160
	56x72x3	0v/1	16.20.67
5 Support Ring Half	59.8x72x3	1b/S4	16.20.170
6 Shim	56x72		Agraset 150
7 Retainer	72x2.5		62.14.01
8 Roll Pin	10x55		61.05.02
9 Key	13x7x38		16.50.35
10 Leaf Spring	36x5		66.19.01
11 Lubricator	M8x1		63.12.01
12 Bearing Ring	1b		16.50.107
	S4		16.50.519
13 Roll Pin	8x75		61.04.06



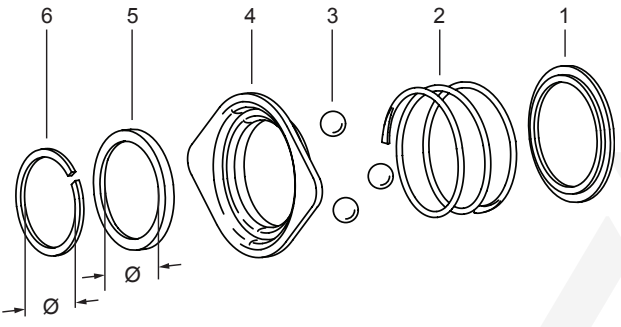
IFM R / L INBOARD OVERRUNNING CLUTCH)

IFM/R (Right Hand Rotation)


Item	Series	Profile	Diameter	Part Number
1 Hub	2200	1	110mm	56.19.275
	2300	1	127mm	56.19.186
	2400 / P400	2a	127mm	56.19.281
	2400 / P400	S5	127mm	56.19.284
	2400	40x36	127mm	56.19.288
	2500	S5	140mm	56.19.293
2 Housing	2200		98mm	20.80.14
	2300 / P300		115mm	21.80.14
	2400 / P400		115mm	35.80.14
	2400 / P400		115mm	35.80.15
	2500 / P500		128mm	36.80.15
3 Retainer	115x4			62.29.00
	128x4			139346

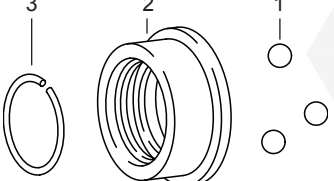
IFM/L (Left Hand Rotation)


Item	Series	Profile	Diameter	Part Number
1 Hub	2200	1	127mm	56.19.298
	2300	2a	127mm	56.19.320
	2400	S5	127mm	56.19.299
	2500	S5	127mm	56.19.310
2 Housing	2200		98mm	20.80.14
	2300		115mm	21.80.14
	2400 / P400		115mm	35.80.14
	2500 / P500		128mm	36.80.15
3 Retainer	100x4			137966
	115x4			62.29.00
	128x4			139346

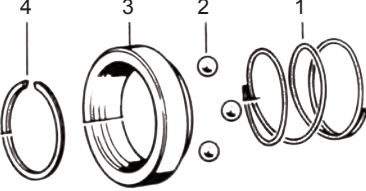
LOCKING COLLAR AGRASET 108 127

	ITEM	Series / Size	Type	Part Number
	1	Backup Ring		16.20.16
	2	Compression Spring		66.01.46
	3	Ball (x3)	Agraset 127 for 1 1/8 Hubs	64.02.00
			Agraset 108 for 1 3/8 Hubs	64.01.02
	4	Lock Collar		65.03.05
	5	Backup Ring	Ø 42	16.20.14
			Ø 50	16.20.52
	6	Snap Ring	Ø 42	62.07.00
			Ø 50	62.10.02

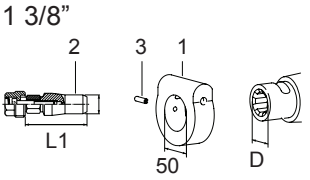
LOCKING COLLAR AGRASET 119

	ITEM	Series / Size	Type	Part Number
	1	Ball (x3)		64.01.16
	2	Lock Collar	not supplied separately	-
	3	Snap Ring		62.44.00

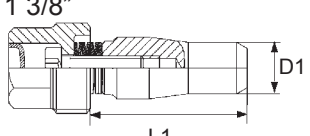
LOCKING COLLAR AGRASET 140 173

	ITEM	Series / Size	Type	Part Number
	1	Compression Spring		66.01.55
	2	Ball (x3)		64.01.00
	3	Lock Collar	not supplied separately	-
	4	Snap Ring		62.07.04

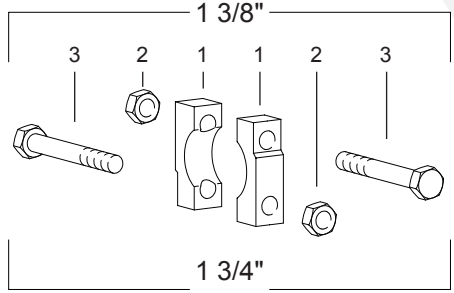
CLAMPING CONE RING VERSION

	Pos	D	D1 (mm)	L1 (mm)	Part Number
	1	1 3/8"	12.5		65.13.00
	2	1 3/8"		48,5	65.12.10
	3				61.03.12
	4	1 3/4"			65.13.01
	5	1 3/4"	15.8	53	65.12.11

CLAMPING CONE

	D (Thread)	D1 (mm)	L1 (mm)	Part Number
	1 3/8"	12.5	38,5	65.12.06
	1 3/4"	15.8	43	65.12.08
	2 1/4"	19.8	100	65.12.13

CLAMPING BRIDGE

	Item	D	Dia	Part Number
	1	1 3/8 Bridge	50	16.20.51
	1	1 3/4 Bridge	59	16.20.99
	1	1 3/4 Bridge	80	16.20.249
	1	52 Bridge	100	16.20.227
	2	M12 Nut		60.53.03
	2	M16 Nut		60.57.02
	2	M20 Nut		415425
	3	M12 Bolt		60.06.11
	3	M16 Bolt		60.09.11
	3	M20 Bolt		156280