

# FARMGARD

ROBUST MACHINERY THAT WORKS



## 2016 GENUINE PARTS GUIDE



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# CONTENTS



**BONDIOLI  
& PAVESI**

**08** Tri Tube BYPY Drivelines  
SFT Drivelines  
Clutches, Covers,  
components



**70** Power Harrow Tines  
Rotary Hoe Blades  
Spikes  
Bolts

**BERLI**

**82** Hammer Flails  
Y Flails  
Bushes & Collars, Bolts  
Drive Belts  
Front Flaps & Chains



**92** Mouldboards  
Shares  
Disc Coulters  
Misc Plough parts



**98** S- Tines  
Shares  
Springs  
Clamps

**FARMGARD**  
ROBUST MACHINERY THAT WORKS



**102** Pre-ripper Legs  
Pre-ripper Points  
Grader Blade  
Cutting Edges

**OTHER BRANDS  
WE STOCK**

**104** ABBEY  
JF  
REMAC  
ROLLAND  
RZ RANGE



07

**UNIVERSAL JOINTS**



08

**SFT DRIVELINE COMPONENTS**



18

**SFT SAFETY COVERS**



19

**COMPLETE SFT DRIVESHAFTS**



20

**GLOBAL/100 SERIES DRIVELINE COMPONENTS**



30

**GLOBAL/100 SERIES SAFETY COVERS**



34

**COMPLETE GLOBAL/100 SERIES DRIVESHAFTS**



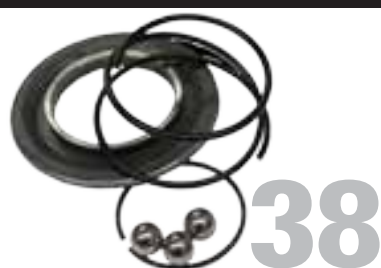
37

**PUSH PINS & TAPERED PINS**



38

**FRICITION DISCS**



38

**BALL COLLAR KITS**



39

**IMPLEMENT CONNECTION CONES**



40

**TORQUE LIMITING CLUTCHES**

# CONTENTS



72

POWER HARROW  
TINES



74

ROTARY HOE  
BLADES



78

SPIKES



78

STRAIGHT BLADES



79

ROTOR  
PROTECTORS



80

FASTENERS



83

HAMMER FLAILS



84

Y FLAILS



86

FORESTRY FLAILS



87

FLAIL  
COLLARS



87

FLAIL BUSHES



88

FLAIL BOLTS



89

**DRIVE BELTS**



90

**FRONT FLAPS**



90

**FRONT CHAINS**



93

**POINTS & SHARES**



93

**MOULDBOARDS**



96

**SKEITH DISCS**



99

**S-TINES**



100

**POINTS**



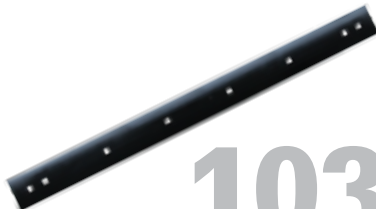
101

**FINGER TINES**



103

**FARMGARD  
PRE-RIPPER PARTS**



103

**GRADER BLADE  
CUTTING EDGES**



103

**CUTTING EDGE  
BOLTS**



# BONDIOLI & PAVESI



**SFT Series (four tooth profile tubing)**

**Page 10**

**Global Series (BYPY triangular profile tubing)**

**Page 22**

**General BYPY Components**

**Page 37**

**Clutches**

**Page 42**

Bondioli drivelines are based on the experience that has been gained from the design and manufacture of PTO drivelines since 1950. Constant research and exclusive production methods have enabled Bondioli & Pavesi to obtain high levels of performance in a compact driveline.

### **Bondioli & Pavesi Genuine Universal cross**

- Dust, dirt and moisture can shorten a drivelines life dramatically, so effective sealing is essential to retain lubricants and protect from moisture and contamination.
- Genuine Bondioli Cross kits have needle bearings with double lip seals, designed to prevent dust and dirt contamination
- Genuine Bondioli crosses have higher strength trunnions, increased needle bearing life and longer lubrication intervals.
- Be aware that some alternative universal joints have incorrect cup tolerances, resulting in overheating and joint failure due to the friction generated from the cups spinning inside the yoke ears.

### **Bondioli & Pavesi Genuine Yokes**

- Bondioli Yokes are made from high quality steel built to withstand the sideways flexing force which occurs under load. This overcomes the problems of yokes shattering, unlike many of the alternative manufacturers who use poor quality steel to keep the price down.
- This stiffness of the genuine Bondioli Yokes is essential to the proper performance and long life of the universal joint.

### **Bondioli & Pavesi Genuine Profile tubes**

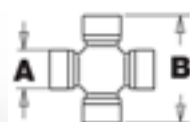
- The performance of Bondioli universal joints, demands an equally high performance from telescopic driveline tubes. The design results in a tube with high strength, minimal thrust force and low weight which overall means a stronger and more functional driveshaft.
- Tubing used on wide angle driveshafts is Rilsan plastic coated to ensure even less telescopic thrust and longer life.



# QUICK SELECTION UNIVERSAL JOINTS

STANDARD UNIVERSAL JOINT			
A	B	CAP GREASING	CENTRE GREASING
20.0	50.0	-	41220
22.0	54.0	4120B0012	41201
23.8	61.3	4120C0012	41202
27.0	70.0	-	41203
27.0	74.6	4120E0012	41204
30.2	79.4	4120G0012	41205
30.2	91.5	4120H0012	41206
30.2	106.0	-	412070001
34.9	93.5	4120L0012	41207
34.9	106.0	4120M0012	41208
41.0	108.0	-	41209
41.0	118.0	412100005	41210
42.0	107.5	4120N0012	-
42.0	130.0	4120S0012	-
49.0	135.0	412200003	412200001
50.0	140.0	4120K0001	-

WIDE ANGLE UNIVERSAL JOINT		
A	B	CODE
22.0	76.0	4120C0051
22.0&23.4	76.0&77.6	4120C0006
22.0	86.0	4120E0051
23.8	61.3	412020003
23.8	86.0	412040012
27.0	100.0	4120G0051
27.0&30.2	90.0&92	4120G0006
30.2	99.4	412060012
30.2	106.0	4120L0051
30.2&34.9	106&109	4120L0006
30.2	122.0	4120M0052
34.9	110.0	4120N0051
35.0	106.0	412080012



**Standard Universal  
With Cap Greasing**

**Standard Universal  
With Centre  
Greasing**

**Wide Angle  
Universal With Cap  
Greasing**

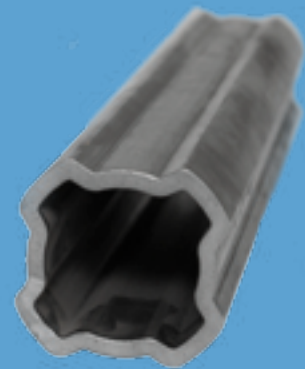


# BONDIOLI & PAVESI



## SFT SERIES

This section refers to driveshafts with four tooth profile tubing. Known as SFT tube.



Universal Joints

11



Standard Driveshaft  
Components

12



80° Wide Angle Driveshaft  
Components

14



Safety Cover Bearings

16



Safety Cones

17



Complete Safety Covers

18



Complete Driveshafts

19



## Steps for identifying size/series:

1. Measure the cup size of the universal joint.
2. Measure the distance across the yoke and / or between the circlip groove on the yoke.
3. Measure tube diameter.
4. Measure cover bearing groove on the tube yoke. In case of 80 degree wide angle yokes measure the size of the ball on top of the yoke.
5. Take note of number stamped into outer plastic cover example shown below. Also look for these symbols shown on yokes and components. (these are not the part numbers but will help identify the size).
6. In this book all measurements are in millimeters unless stated otherwise.
7. Z refers to the number of splines



E.g. Size S8

SERIES/ SIZE	STANDARD JOINT SIZE		80° WIDE ANGLE JOINT		YOKE WIDTH STANDARD JOINT	OUTER TUBE DIMENSION		INNER TUBE DIMENSION		FREE ROTATION TUBE	
	A	B	A	H	H	D1	T1	D2	T2	OUTER G	INNER H
<b>S1</b>	22.0	54.0	-	-	61.8	35.2	2.0	30.8	3.0	-	-
<b>S2</b>	23.8	61.3	22.0	76.0	70.0	45.6	2.75	39.6	3.0	40.4	29.6
<b>S4</b>	27.0	74.6	22.0	86.0	84.0	50.2	2.75	44.2	3.5	48.0	36.6
<b>S5</b>	30.2	79.4	-	-	91.0	50.2	2.75	44.2	4.2	-	-
<b>S6</b>	30.2	79.4	27.0	100.0	91.0	53.9	3.25	46.9	4.5	58.5	45.6
<b>H7</b>	30.2	91.5	27.0	100.0	103.0	58.2	3.25	51.2	5.0	-	-
<b>S8</b>	34.9	93.5	30.2	106.0	106.0	58.2	3.25	51.2	5.0	-	-
<b>H8</b>	34.9	93.5	30.2	106.0	106.0	66.0	3.5	58.5	4.5	-	-
<b>S9</b>	34.9	106.0	30.2	122.0	117.0	66.0	3.5	58.5	4.5	-	-
<b>SH</b>	42.0	107.5	34.9	110.0	119.0	70.2	4.0	61.7	5.75	-	-
<b>S0</b>	42.0	130.0	-	-	145.0	70.2	4.0	61.7	5.75	-	-
<b>SK</b>	50.0	140.0	-	-	155.0	74.1	6.0	61.8	-	-	-

SERIES/ SIZE	TORQUE LIMITS		MEDIAN TRANSMITTED TORQUE & POWER LEVELS (REAL HP)											
			Median torque & power 5° angle, 1000 hours lifetime						Median torque & power 10° angle, 100 hours lifetime					
	MD MAX (NM)	M MAX (NM)	540 RPM			1000 RPM			540 RPM			1000 RPM		
			KW	HP	NM	KW	HP	NM	KW	HP	NM	KW	HP	NM
<b>S1</b>	482	850	13	18	234	20	27	190	21	28	368	33	45	315
<b>S2</b>	685	1500	21	28	364	31	42	295	32	44	572	51	70	490
<b>S4</b>	939	2200	28	38	494	42	57	400	44	60	776	70	95	665
<b>S5</b>	1334	2500	37	50	651	55	75	527	58	79	1022	92	125	876
<b>S6</b>	1334	3000	40	55	716	61	83	583	64	86	1124	101	137	964
<b>H7</b>	1603	3700	51	70	911	78	106	745	81	110	1430	128	175	1226
<b>S8</b>	2083	4000	66	90	1171	100	136	956	104	141	1838	165	224	1576
<b>H8</b>	2083	5000	66	90	1171	100	136	956	104	141	1838	165	224	1576
<b>S9</b>	2447	5000	81	110	1461	122	166	1166	127	173	2247	202	274	1927
<b>SH</b>	2928	6750	97	132	1717	147	200	1405	153	208	2704	243	330	2318
<b>S0</b>	3729	6750	124	169	2199	187	254	1785	195	265	3445	309	421	2954
<b>SK</b>	5424	11000	181	246	3200	272	370	2600	233	318	4130	371	504	3541

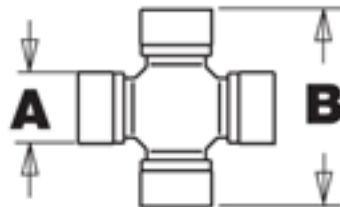
- **Md Max** = Maximum Dynamic Torque. This is defined as the maximum torque transmitted under normal working conditions. This value is considered as the max torque limit that the corresponding driveshaft series can handle at a constant rate during working conditions.
- All joints must operate for the desired lifetime under normal working conditions. For this to occur, the transmitted torque must be lower than the Maximum Dynamic Torque (**Md Max**).
- **M Max** = Maximum Torque of the driveline. The driveline is not designed to handle torque that exceeds this value.
- The driveline strength must be sufficient to transmit the desired torque under all foreseeable working conditions (example; possibility of large rocks or tree stumps in a cultivation application.). Therefore the driveline size must be selected so that the maximum torque required by the working application will always be lower than the maximum rated torque of the driveline (**M Max**) even in the case of accidental torque peaks.
- The driveline size is determined by the median torque levels and the life required, in combination with the parameter of rotational speed, joint angle and lubrication.



# SFT UNIVERSAL JOINTS

STANDARD UNIVERSAL JOINTS			
SERIES	A	B	CODE
<b>S1</b>	22.0	54.0	4120B0012
<b>S2</b>	23.8	61.3	4120C0012
<b>S4</b>	27.0	74.6	4120E0012
<b>S5</b>	30.2	79.4	4120G0012
<b>S6</b>	30.2	79.4	4120G0012
<b>H7</b>	30.2	91.5	4120H0012
<b>S8</b>	34.9	93.5	4120L0013
<b>H8</b>	34.9	93.5	4120L0013
<b>S9</b>	34.9	106.0	4120M0012*
<b>SH</b>	42.0	107.5	4120N0012*
<b>S0</b>	42.0	130.0	4120S0012*
<b>SK</b>	50.0	140.0	4120K0001

80° WIDE ANGLE UNIVERSAL JOINTS			
SERIES	A	B	CODE
<b>S2</b>	22.0	76.0	4120C0051
	22.0&23.8	76.0&77.6	4120C0003
<b>S4</b>	22.0	86.0	4120E0051
<b>S6</b>	27.0	100.0	4120G0051
	27.0&30.2	90.0&92.0	4120G0006
<b>H7</b>	27.0	100.0	4120G0051
<b>S8</b>	30.2	106.0	4120L0051
<b>H8</b>	30.2	106.0	4120L0051
	30.2&34.9	106&109	4120L0006
<b>S9</b>	30.2	122.0	4120M0051
<b>SH</b>	34.9	110.0	4120N0051



**\*Also available  
with greasing in all  
four cups.**

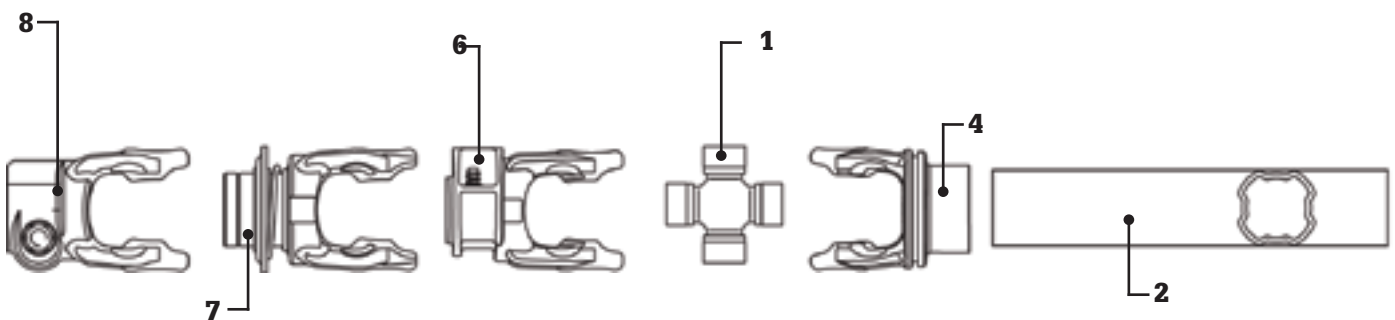
# STANDARD JOINT COMPONENTS

SFT SERIES

STANDARD JOINT COMPONENTS

	1			2	2			3			4		
	UNIVERSAL JOINT				WIDTH	OUTER TUBE			INNER TUBE			OUTER TUBE YOKE	
	A	B	CODE		H	D1	T1	CODE	D2	T2	CODE	CODE	∅
<b>S1</b>	22.0	54.0	4120B0012	61.8	35.2	2.0	12232	30.8	3.0	12216	204S16853	59	
<b>S2</b>	23.8	61.3	4120C0012	70.0	45.6	2.75	12205	39.6	3.0	12204	204S26854	73	
<b>S4</b>	27.0	74.6	4120E0012	84.0	50.2	2.75	2253H1400	44.2	3.5	2254B1400	204S46854	73	
<b>S5</b>	30.2	79.4	4120G0012	91.0	50.2	2.75	2253H1400	44.2	4.2	2254B1400	204S56858	73	
<b>S6</b>	30.2	79.4	4120G0012	91.0	53.9	3.25	2253P1000	46.9	4.5	2254G	204S66853	89	
<b>H7</b>	30.2	91.5	4120H0012	103.0	58.2	3.25	12209	51.2	5.0	12251	204S67855	89	
<b>S8</b>	34.9	93.5	4120L0012	106.0	58.2	3.25	12209	51.2	5.0	12251	204S86853	89	
<b>H8</b>	34.9	93.5	4120L0012	106.0	66	3.5	2250N1000	58.5	4.5	2253V1000	2040L6869	89	
<b>S9</b>	34.9	106.0	4120M0012	117.0	66.0	3.5	2250N1000	58.5	4.5	2253V1000	204S96855	99	
<b>SH</b>	42.0	107.5	4120N0012	119.0	70.2	4.0	2253K1000	61.7	5.75	2254E1000	2040N6853	103	
<b>S0</b>	42.0	130.0	4120S0012	145.0	70.2	4.0	2253K1000	61.7	5.75	2254E1000	2040S6855	103	
<b>SK</b>	50.0	140.0	4120K0001	155.0	74.1	6.0	-	61.8	-	-	2040K6851	103	

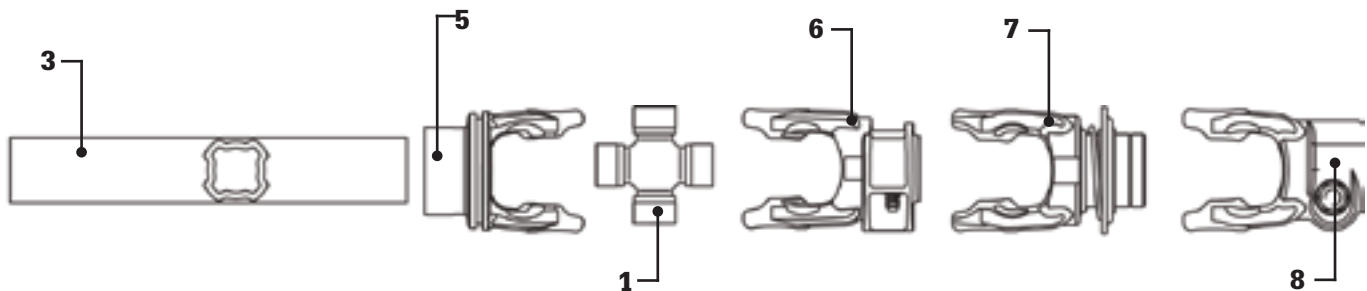
\*Some special tube yokes not listed here may be available



# STANDARD JOINT COMPONENTS

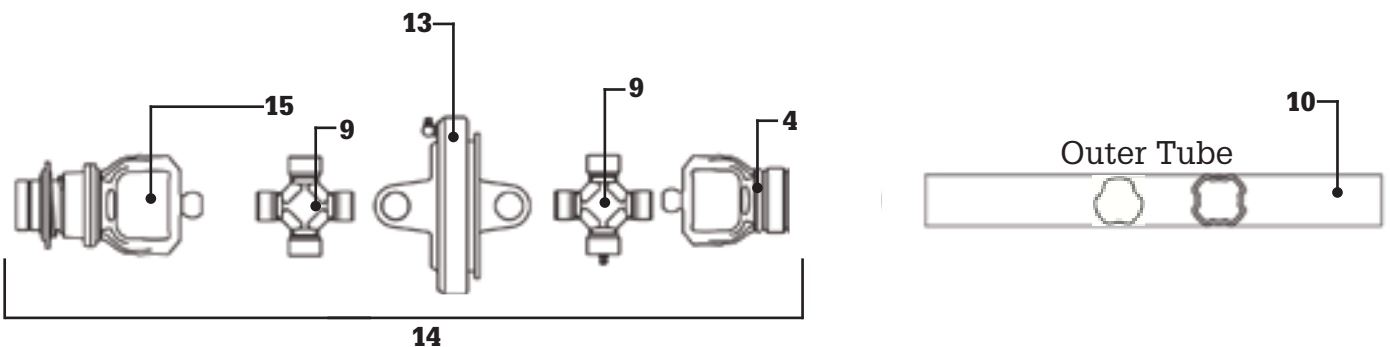
5		6		7				8		
INNER TUBE YOKE		PUSH PIN YOKE		BALL COLLAR END YOKE				TAPERED BOLT END YOKE		
CODE	Ø	1 3/8" Z6	1 3/8" Z21	1 3/8" Z6	1 3/8" Z21	1 3/4" Z6	1 3/4" Z20	1 3/8" Z6	1 3/4" Z6	1 3/4" Z20
204S16854	56	507010351	507013751	5720B0371	-	-	-	-	-	-
204S26853	70	5070C0355	5070C3755	5720E0355	-	-	-	-	-	-
204S46853	70	5070E0355	5070E3755	5720E0355	-	-	-	509040362	-	-
204S56859	70	5070G0355	5070G3755	5720G0355	5720G3755	5720G0455	5720G3855	509050360	5090G0460	5090G3860
204S66854	86	5070G0355	5070G3755	5720G0355	5720G3755	5720G0455	5720G3855	509050360	5090G0460	5090G3860
204S67856	86	5070H0355	5070L3755	5720H0355	5720H3785	5720H0455	5720H3876	5090H0360	5090H0460	5090H3860
204S86854	86	5070L0355	5070L3755	5720L0355	5720L3776	5720L0455	5720L3855	5090L0360	5090L0461	5090L3860
2040L6865	86	5070L0355	5070L3755	5720L0355	5720L3776	5720L0455	5720L3855	5090L0360	5090L0461	5090L3860
204S96856	96	5070M0355	5070M3755	5720M0355	5720M3761	5720M0455	5720M3851	5090M0360	5090M0460	5090M3860
2040N6854	100	-	-	5720N0355	5720N3761	5720N0455	5720N3851	-	5090N0460	5090N3860
2040S6856	100	-	-	5720S0351	5720S3761	5720S0461	5720S3852	-	5090S0460	5090S3860
2040K6852	100	-	-	-	-	5720K0451	5720K3851	-	-	-

**\*Not all ball collar end yokes are listed. Please enquire.**

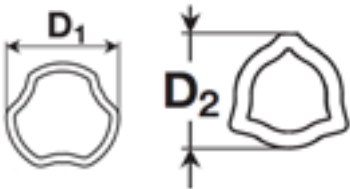


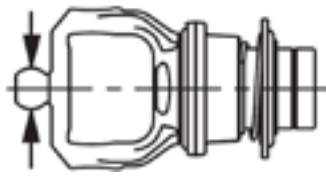


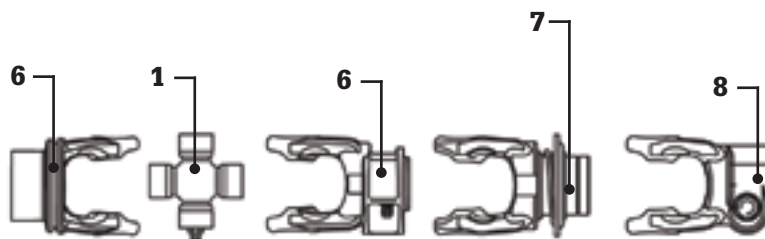
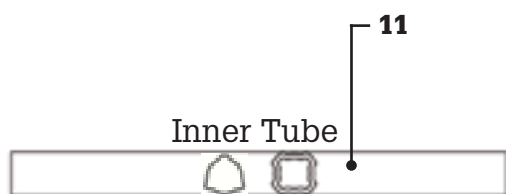
# 80° WIDE ANGLE JOINT COMPONENTS

	9				10			11			4		
	80° UNIVERSAL JOINT			WIDTH	OUTER TUBE			INNER TUBE COATED			OUTER TUBE YOKE		
	A	H	CODE	H	D1	T1	CODE	D2	T2	CODE	CODE	Ø	Ø1
<b>S2</b>	22.0	76	4120C0051	84	45.6	2.5	12222	40.1	3.25	2454L	2150C6871	73	24
<b>S4</b>	22.0	86	4120E0051	94	50.2	2.5	2253L1000	44.7	3.75	2453G1000	2150E6871	73	24
<b>S6</b>	27.0	100	4120G0051	106	53.9	3.0	122461500	47.4	4.75	2453N	2150G6871	89	28
<b>S8</b>	30.2	106	4120L0051	116	58.2	3.0	12225	51.7	5.25	2454D	2150L6871	89	34
<b>H8</b>	30.2	106	4120L0051	116	66.0	3.25	2253X1000	59.0	4.75	2453V1000	2150L6877	89	34
<b>S9</b>	30.2	122	4120M0051	132	66.0	3.25	2253X1000	66.0	4.75	2453V1000	2150M6851	99	34
<b>SH</b>	34.9	110	4120N0051	122	70.2	3.75	12228	70.2	6.0	2454E	2150N6851	99	34



# 80° WIDE ANGLE JOINT COMPONENTS

10A		11A		13	14	15							
Free Rotation Tube 													
OUTER TUBE		INNER TUBE		CENTRE BODY	COMPLETE 80° JOINT FOR OUTER TUBE	QUICK RELEASE END YOKES							
CODE	D1	CODE	D2			1 3/8" Z6	1 3/8" Z21	1 3/4" Z6	1 3/4" Z20				
12312	40.4	24504	29.6	5110E0053	CS2GWW49WR7	5730C0377	5730C3789	-	-				
12314	48.0	24510	36.6	5110E0052	CS4GWW49WR7	5730E0384	5730E3784	5730E0484	5730E3884				
12316	58.5	24516	45.6	5110G0061	CS6GWW49WR7	5730G0384	5730G3784	5730G0484	5730G3884				
-	-	-	-	5110L0063	CS8GWW49WR8	5730L0384	5730L3784	5730L0484	5730L3884				
-	-	-	-	5110L0063	CH8GWW49WR8	5730L0384	5730L3784	5730L0484	5730L3884				
-	-	-	-	5110M0051	CS9GWW49WS9	5730M0384	5730M3784	5730M0476	5730M3887				
-	-	-	-	5110N0051	CSHGWW49WS0	5730N0387	5730N3776	5730N0476	5730N3887				



# SAFETY COVER BEARINGS

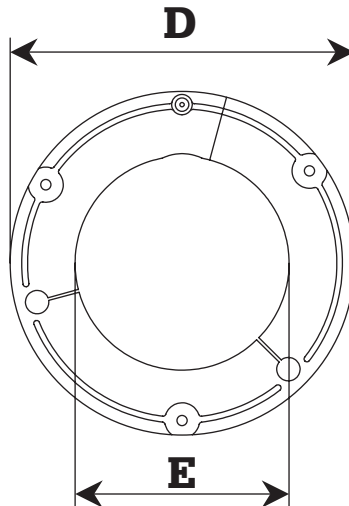
SFT SERIES

SERIES	BEARING FOR OUTER TUBE YOKE			BEARING FOR INNER TUBE YOKE			80° WIDE ANGLE BEARING		
	D	E	CODE	D	E	CODE	D	E	CODE
<b>S1</b>	100	59	2550A0001	100	56	2550A0002	-	-	-
<b>S2</b>	118	73	2550C0001	118	70	2550C0002	160	101	2550E0005
<b>S4</b>	118	73	2550C0001	118	70	2550C0002	160	101	2550E0005
<b>S5</b>	118	73	2550G0001	118	70	2550G0002	-	-	-
<b>S6</b>	132	89	2550G0001	132	86	2550G0002	187	128	2550G0024
<b>S6003</b>	115	78	2550G0004	132	86	2550G0002	194	150	2550G0007
<b>H7</b>	132	89	2550G0001	132	86	2550G0002	187	128	2550G0024
<b>S8</b>	132	89	2550G0001	132	86	2550G0002	206	147	2550L0023
<b>H8</b>	132	89	2550G0001	132	86	2550G0002	206	147	2550L0023
<b>S9</b>	144	99	2550L0001	144	96	2550L0002	206	147	2550L0023
<b>SH</b>	146	103	2550M0001	146	100	2550M0002	206	147	2550L0023
<b>S0</b>	146	103	2550M0001	146	100	2550M0002	-	-	-
<b>SK</b>	146	103	2550M0001	146	100	2550M0002	-	-	-

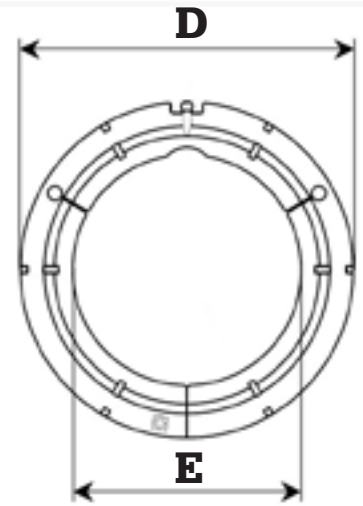
SAFETY COVER BEARINGS



Standard Bearing



80° Wide Angle Bearing



Be sure to measure the bearing groove on the Yoke, remember to measure the inner and outer bearings as they are different. You can usually find the part number embossed into the plastic bearing.



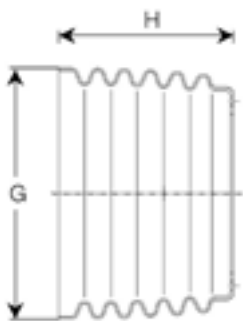


# END CONES

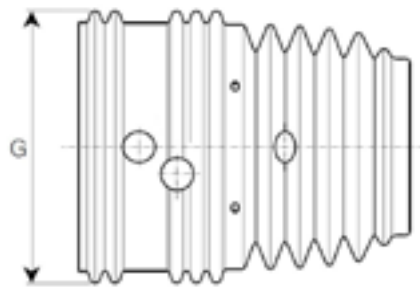
END CONES					
SERIES	G	H	STANDARD CONE	G	WIDE ANGLE CONE 80°
<b>S1</b>	129	75	2191C0013	-	-
<b>S2</b>	146	102	2190E0201	181	2190E0121
<b>S4</b>	146	102	2190E0201	181	2190E0121
<b>S5</b>	146	102	2190G0201	-	-
<b>S6</b>	160	101	2190G0201	211	2190G0141
<b>H7</b>	160	101	2190G0201	211	2190G0141
<b>S8</b>	160	120	2190L0201	233	2190L0121
<b>H8</b>	160	120	2190L0201	233	2190L0121
<b>S9</b>	180	130	2190M0201	233	2190N0122
<b>SH</b>	201	116	2190S0201	233	2190N0122
<b>S0</b>	201	116	2190S0201	-	-
<b>SK</b>	201	136	2190S0203	-	-

SPECIAL EXTENDED LENGTH CONES				
E	H	G	D	CODE
83	226	170	93	2191D2016
83	215	170	93	2191D2054
83	278	170	99	2191G2017
145	260	200	103	2190G0162
115	227	200	103	2190G0146

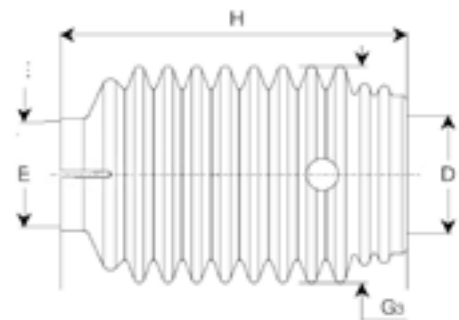
**Standard Cone**



**80° Wide Angle Cone**



**Special Extended Length Cone**



**Other special cones not listed above are available upon request.**

## STANDARD COVERS

SERIES	CODE	INNER BEARING	OUTER BEARING
<b>S1</b>	5CS1121FXSS	56	59
<b>S2</b>	5CS2121FXSS	70	73
<b>S4</b>	5CS4121FXSS	70	73
<b>S5</b>	5CS5121FXSS	70	73
<b>S6</b>	5CS6121FXSS	86	89
<b>H7</b>	5CH7121FXSS	86	89
<b>S8</b>	5CS8121FXSS	86	89
<b>H8</b>	5CH8121FXSS	86	89
<b>S9</b>	5CS9121FXSS	96	99
<b>SH</b>	5CSH121FXSS	100	103
<b>S0</b>	5CS0121FXSS	100	103
<b>SK</b>	5CSK081FXSS	100	103



Standard SFT safety cover

## WIDE ANGLE COVERS

SERIES	CODE	INNER BEARING	OUTER BEARING	WIDE ANGLE BEARING
<b>S2</b>	5CS2121FXWS	70	73	101
<b>S4</b>	5CS4121FXWS	70	73	101
<b>S6</b>	5CS6121FXWS	86	89	128
<b>S6003</b>	4DS614102CE	86	78	150
<b>S8</b>	5CS8121FXWS	86	89	147
<b>S9</b>	5CS9121FXWS	96	99	147
<b>SH</b>	5CSH121FXWS	100	103	147



80° wide angle SFT safety cover

Covers listed above are to suit 1200mm closed cross centres. Other special length covers may be available.



# COMPLETE DRIVESHAFTS

STANDARD DRIVESHAFT		
SERIES	HP	CODE
<b>S1</b>	18-27	CS1N121FX007007
<b>S2</b>	28-42	DS2N164CE007001
<b>S4</b>	38-57	DS4N164CE007001
<b>S5</b>	50-75	CS5N086FX007007
<b>S6</b>	55-83	CS6N121CE007007
<b>H7</b>	70-106	CH7N121CE007007
<b>S8</b>	90-136	CS8N086FX007007
<b>H8</b>	90-150	CH8N086FX007007
<b>S9</b>	110-166	CS9N086FX007007
<b>SH</b>	132-230	CSHN081FXR07R9
<b>S0</b>	169-254	CS0N081FX0000Q9
<b>SK</b>	246-370	CSKP081CER10R10

80° WIDE ANGLE DRIVESHAFT		
SERIES	HP	CODE
<b>S2</b>	28-42	CS2R121CEWR7007
<b>S4</b>	38-57	CS4R121CEWR7007
<b>S6</b>	55-83	CS6R121FXWR7R07
<b>S8</b>	90-136	CS8R121FXWR7R07
<b>H8</b>	90-150	CH8R121FXWS7R07
<b>S9</b>	110-166	CS9R121FXWS7R07
<b>SH</b>	132-230	CSHR121FXWS7R10



Standard SFT Driveshaft



80° wide angle SFT Driveshaft

- Please provide required length and yoke spline.
- We can custom build shafts to suit your requirements.
- We can fit clutches upon requests.
- All SFT shafts come with four tooth profile tube pictured below.



If unsure what size shaft you require, please call the experienced team at Farmgard for recommendations.



## 100 SERIES

This section refers to driveshafts with BYPY triangular profile tubing.



	Universal Joints	23
	Standard Driveshaft Components	24
	Splined Shaft Components	26
	Wide Angle Driveshaft Components	28
	Complete Safety Covers	30
	Safety Cover Bearings	32
	Safety Cones	33
	Complete Driveshafts	34

# SERIES/SIZE IDENTIFICATION CHART



## Steps for identifying size:

1. Measure the cup size of the universal joint.
2. Measure the distance across the yoke and / or between the circlip grooves on the yoke.
3. Measure tube diameter.
4. Measure cover bearing groove on the tube yoke. In case of 80 degree wide angle yokes, measure the size of the ball on top of the yoke.
5. Take note of number stamped into outer plastic cover example shown below. Also look for these symbols shown on yokes and components. (these are not the part numbers but will help identify the size).
6. In this book all measurements are in millimeters unless stated otherwise.
7. Z refers to the number of splines

SERIES	STANDARD JOINT		YOKE WIDTH STANDARD JOINT	OUTER TUBE DIMENSION		INNER TUBE DIMENSION		SPLINED BAR 400 SERIES	
	A	B	H	A	B	A	B	∅	NO. OF SPLINES
<b>1</b>	22	54.0	62.8	2.6	32.5	4.0	26.5	25.0	10
<b>2</b>	23.8	61.3	71.6	3.2	36.0	4.0	29.0	25.0	10
<b>3</b>	27.0	70.0	79.5	3.4	43.5	3.2	36.0	-	-
<b>4</b>	27.0	74.6	86.0	3.4	43.5	4.0	36.0	30.0	10
<b>5</b>	30.2	79.4	92.9	3.0	51.5	3.8	45.0	35.0	12
<b>6</b>	30.2	91.4	105.1	4.0	54.0	4.2	45.0	35.0	12
<b>7 old</b>	30.2	106.0	119.0	4.0	54.0	5.5	45.0	-	-
<b>7</b>	35.0	93.5	108.5	4.0	54.0	5.5	45.0	40.0	14
<b>8</b>	35.0	106.0	119.8	4.0	63.0	4.0	54.0	40.0	14
<b>9</b>	41.0	108.0	119.0	4.0	63.0	5.0	54.0	45.0	16
<b>10</b>	41.0	118.0	130.5	5.6	66.0	6.0	54.0	45.0	16
<b>12</b>	49.0	135.0	150	-	-	-	-	50	18

SERIES/ SIZE	TORQUE LIMITS		MEDIAN TRANSMITTED TORQUE & POWER LEVELS											
			Median Torque & power 5 degree angle, 1000 Hours lifetime						Median Torque & power 10 degree angle, 500 hours lifetime					
	MD MAX (NM)	M MAX (NM)	540 RPM			1000 RPM			540 RPM			1000 RPM		
			KW	HP	NM	KW	HP	NM	KW	HP	NM	KW	HP	NM
<b>0</b>	280	520	9	12	180	12	15	150	9	12	180	12	15	150
<b>1</b>	320	750	12	16	210	18	25	172	12	16	210	18	25	172
<b>2</b>	450	1050	15	21	270	23	31	220	15	21	270	23	31	220
<b>3</b>	780	1700	26	35	460	40	55	380	26	35	460	40	55	380
<b>4</b>	780	2000	26	35	460	40	55	380	26	35	460	40	55	380
<b>5</b>	1050	2500	35	47	620	54	74	520	35	47	620	54	74	520
<b>6</b>	1450	2900	47	64	830	74	100	710	47	64	830	74	100	710
<b>7</b>	1800	3500	55	75	970	87	118	830	55	75	970	87	118	830
<b>8</b>	2250	3900	70	95	1240	110	150	1050	70	95	1240	110	150	1050
<b>9</b>	2900	4500	88	120	1560	140	190	1340	88	120	1560	140	190	1340
<b>10</b>	3800	5200	106	145	1890	170	230	1630	106	145	1890	170	230	1630
<b>12</b>	5424	11000	181	246	3200	272	370	2600	181	246	3200	272	370	2600

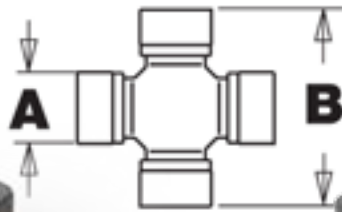
- **Md Max** = Maximum Dynamic Torque. This is defined as the maximum torque transmitted under normal working conditions. This value is considered as the max torque limit that the corresponding driveshaft series can handle at a constant rate during working conditions.
- All joints must operate for the desired lifetime under normal working conditions. For this to occur, the transmitted torque must be lower than the Maximum Dynamic Torque (**Md Max**).
- **M Max** = Maximum Torque of the driveline. The driveline is not designed to handle torque that exceeds this value.
- The driveline strength must be sufficient to transmit the desired torque under all foreseeable working conditions (example; possibility of large rocks or tree stumps in a cultivation application.). Therefore the driveline size must be selected so that the maximum torque required by the working application will always be lower than the maximum rated torque of the driveline (**M Max**) even in the case of accidental torque peaks.
- The driveline size is determined by the median torque levels and the life required, in combination with the parameter of rotational speed, joint angle and lubrication.



# UNIVERSAL JOINTS

STANDARD UNIVERSAL JOINTS				
SERIES	A	B	CENTRE GREASE	CAP GREASE
0	20	50	41220	-
1	22	54.0	41201	4120B0012
2	23.8	61.3	41202	4120C0012
3	27.0	70.0	41203	-
4	27.0	74.6	41204	4120E0012
4.1	29.0	80.0	41230001	
5	30.2	79.4	41205	4120G0013
6	30.2	91.4	41206	4120H0012
7old	30.2	106.5	412070001	-
7	35.0	93.5	41207	4120L0013
8*	35.0	106.0	41208	4120M0012
9	41.0	108.0	41209	-
10*	41.0	118.0	41210	412100005

**\*Also available with greasing in all four cups.**



**Standard Universal Cap Greasing**



**Centre Greasing**



**Wide Angle Universal Cap Greasing**

OLD VERSION 70° WIDE ANGLE UNIVERSAL JOINTS			
SERIES	A	B	CODE
2	23.8	61.3	412020003
4	23.8	86.0	412040012
6	30.2	99.4	412060012
8	35.0	106.0	412080012

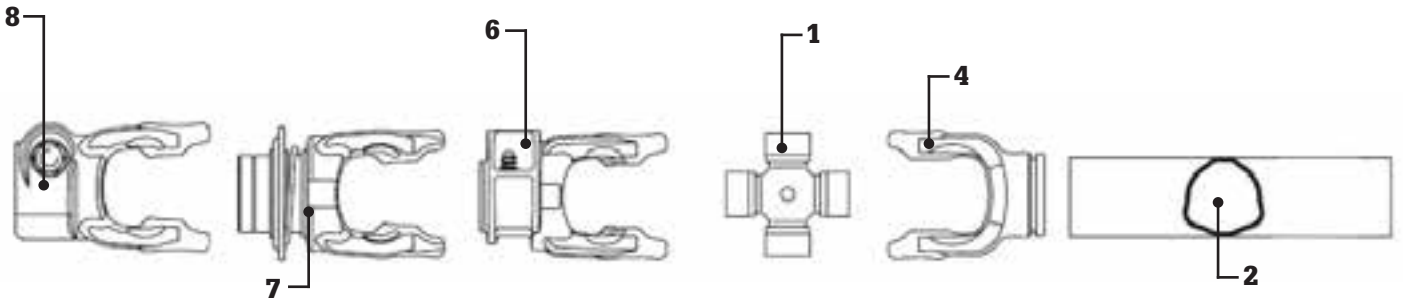
NEW VERSION 80° WIDE ANGLE UNIVERSAL JOINTS			
SERIES	A	B	CODE
2	22.0	76.0	4120C0051
4	22.0	86.0	4120E0051
5	27.0	100.0	4120G0051
6	27.0	100.0	4120G0051
8	30.2	106.0	4120L0051

# STANDARD JOINT COMPONENTS

TRI SERIES

STANDARD JOINT COMPONENTS

SERIES	1			2			3			4	
	UNIVERSAL JOINT			OUTER TUBE			INNER TUBE			OUTER TUBE YOKE	
	A	B	CODE	B	A	CODE	B	A	CODE	CODE	GROVE Ø
<b>1</b>	22.0	54.0	41201	32.5	2.6	12503	26.5	4.0	12502	204016851	40
<b>2</b>	23.8	61.3	41202	36.0	3.2	12505	29.0	4.0	12504	204026851	47
<b>3</b>	27.0	70.0	41203	43.5	3.4	12508	36.0	3.2	12505	204036851	53
<b>4</b>	27.0	74.6	41204	43.5	3.4	12508	36.0	4.0	12507	204046851	53
<b>5</b>	30.2	79.4	41205	51.5	3.0	12510	45.0	3.8	12597	204056860	62
<b>6</b>	30.2	91.4	41206	54.0	4.0	12512	45.0	4.2	12509	204066851	68
<b>7old</b>	30.2	106.5	412070001	54.0	4.0	12512	45.0	5.5	12511	204076851	68
<b>7</b>	35.0	93.5	41207	54.0	4.0	12512	45.0	5.5	12511	204176851	68
<b>8</b>	35.0	106.0	41208	63.0	4.0	12522	54.0	4.0	12512	204086860	80
<b>8C</b>	35.0	106.0	41208	54.0	4.0	12512	45.0	4.2	12509	204086851	80
<b>9</b>	41.0	108.0	41209	63.0	4.0	12522	54.0	5.0	12513	204196851	80
<b>10</b>	41.0	118.0	41210	66.0	5.6	12515	54.0	6.0	12514	204106851	80

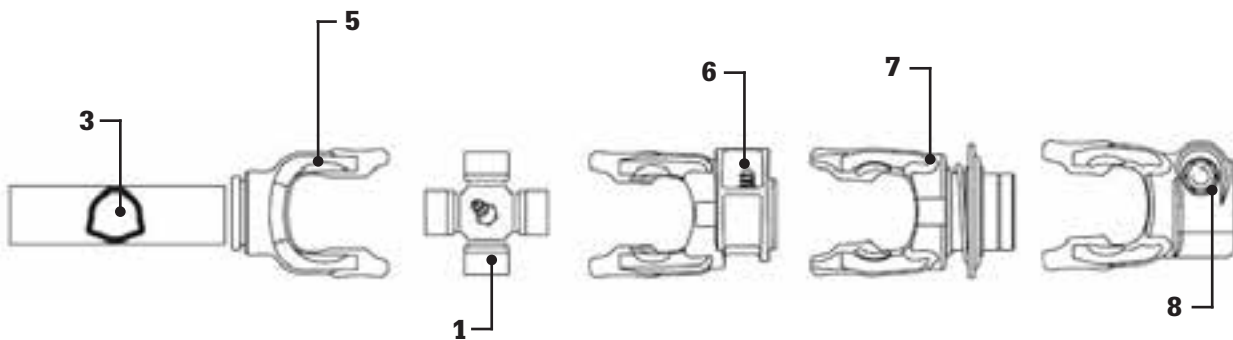




# STANDARD JOINT COMPONENTS

5		6		7				8		
INNER TUBE YOKE		PUSH PIN YOKE		BALL COLLAR END YOKE				TAPER BOLT END YOKE		
CODE	GROVE Ø	1 3/8" Z6	1 3/8" Z21	1 3/8" Z6	1 3/8" Z21	1 3/4" Z6	1 3/4" Z20	1 3/8" Z6	1 3/4" Z6	1 3/4" Z20
204016852	34	5070B0355	5070B3755	5720B0355	5720B3776	-	-	-	-	-
204026852	40	5070C0355	5070C3755	5720C0355	5720C3776	-	-	-	-	-
204036852	46	507030351	507033751	-	-	-	-	-	-	-
204046852	46	5070E0355	5070B3755	5720E0355	5720E3755	-	-	5090E0360	-	-
204056861	53	5070G0355	5070G3755	5720G0355	5720G3755	5720G0455	5720G3855	5090G0360	5090G0460	5090G3860
204066852	59	5070H0355	5070H3755	5720H0355	5720H3755	5720H0455	5720H3855	5090H0360	5090H0460	5090H3860
204076852	59	507070351	507073751	-	-	-	507073861	-	-	-
204176852	59	5070L0355	5070L3755	5720L0355	5720L3755	5720L0455	5720L3855	5090L0360	5090L0460	5090L3860
204086861	68	5070M0355	5070M3755	5720M0351	5720M3755	5720M0451	5720M3851	5090M0360	5090M0460	5090M3860
204086852	68	5070M0355	5070M3755	5720M0351	5270M3755	5720M0451	5720M3851	5090M0360	5090M0460	5090M3860
204196852	68	-	-	572090351	572093751	572090451	572093851	509190352	509190452	509193852
204106852	68	-	-	572100351	572103751	572100451	572103851	509100353	509100455	509103853

\*Sizes 3,9 and 10 quick release yoke only available with twist collar conection.



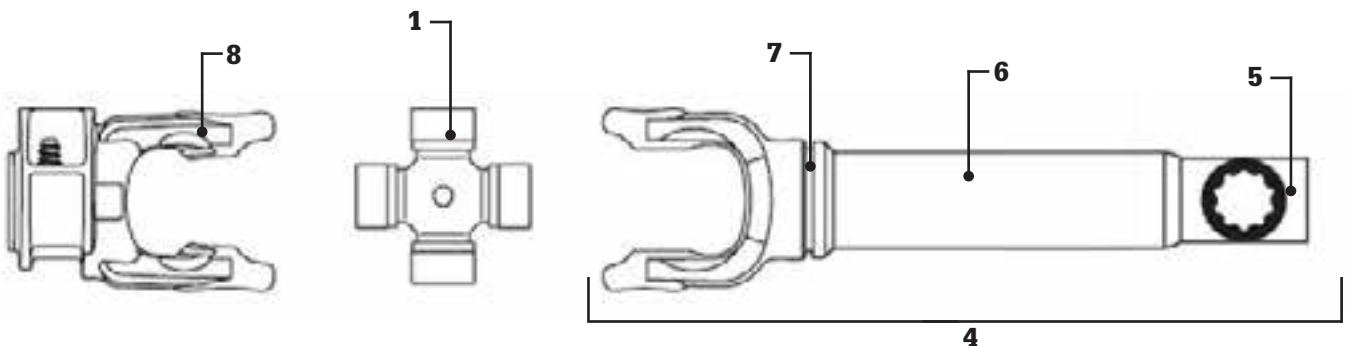
# SPLINED BAR JOINT COMPONENTS

TRI SERIES

SERIES	1			2			3	4
	UNIVERSAL JOINT			SPLINED BAR			SPLINE BAR YOKE	OUTER HALF ASSY
	A	H	CODE	Ø	Z	CODE	CODE	CODE
<b>2</b>	23.8	61.3	41202	25	10	24915	204023151	269B2
<b>4</b>	27.0	74.6	41204	30	10	24917	204043251	569B4
<b>5</b>	30.2	79.4	41205	35	12	24911	204053361	569B5
<b>6</b>	30.2	91.4	41206	35	12	24911	204063361	569B6
<b>7</b>	35.0	93.5	41207	40	14	24921	204173451	569B7
<b>8</b>	35.0	106.0	41208	40	14	24921	204083460	569B8
<b>9</b>	41.0	108.0	41209	45	16	24923	204198151	569B9
<b>10</b>	41.0	118.0	41210	45	16	24923	204108151	569B0
<b>12</b>	49.0	135.0	412200001	50	18	24925	204203556	-

**\*Z = Number of splines.**  
**\*All end yokes that suit standard joints will suit splined shaft joints.**

**Please specify length**





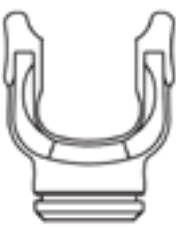

SPLINED BAR / 400 SERIES

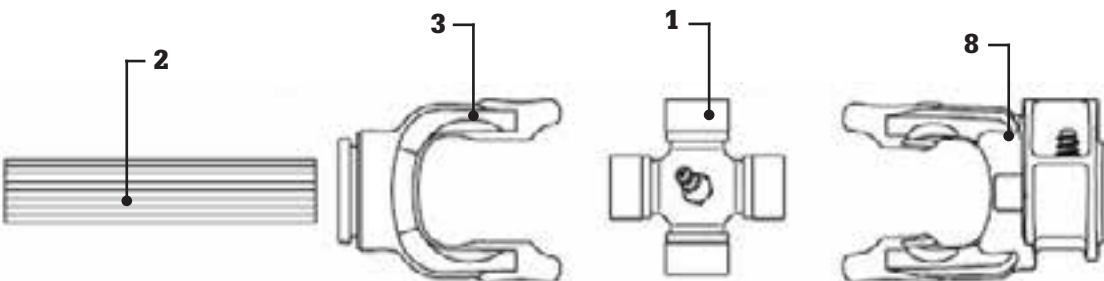


# SPLINED BAR JOINT COMPONENTS



TRI SERIES

5			6	7	8	
						
WELD-IN FEMALE SPLINED NIB			DRIVE TUBE	WELD YOKE	QUICK RELEASE END YOKE	
Ø	Z	CODE	CODE	CODE	1 3/8" Z6	1 3/8" Z21
25	10	226003101	-	204025353	5070C0355	5070C3755
30	10	226003201	-	204045353	5070E0355	5070B3755
35	12	226003301	-	204055535	5070G0355	5070G3755
35	12	226003301	-	206065353	5070H0355	5070H3755
40	14	266003401	13681*	204175351	5070L0355	5070L3755
40	14	226003401	13681*	204085361	5070M0355	5070M3755
45	16	226008101	13674*	204193351	572090351	572093751
45	16	226008101	13674*	204105351	572100351	572103751
50	18	226003502	226003527	204205359	507200302	507203702



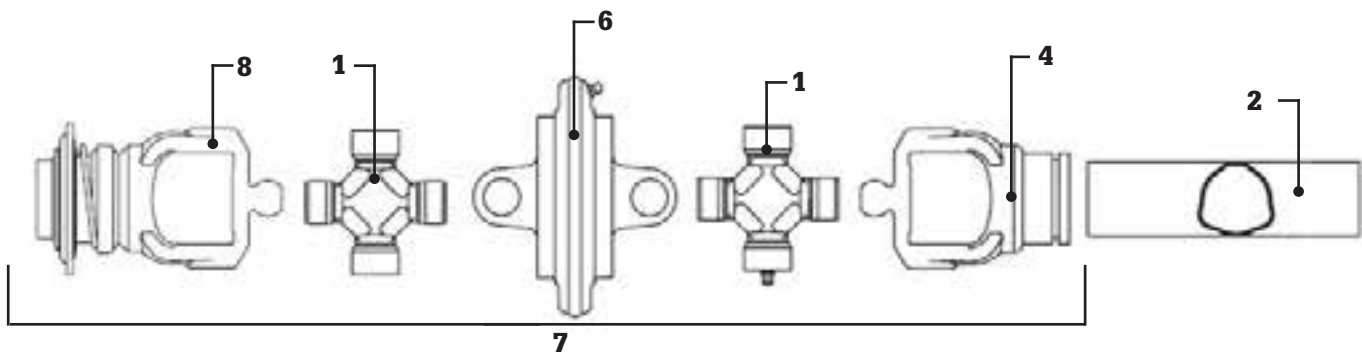
SPLINED BAR / 400 SERIES

# WIDE ANGLE JOINT COMPONENTS

TRI SERIES

WIDE ANGLE COMPONENTS 70° & 80°

SERIES	1			2			3			4			6	
	UNIVERSAL JOINT			OUTER TUBE FITS RILSAN			INNER TUBE RILSAN COATED			OUTER TUBE YOKE			CENTRE BODY	
A	H	CODE	B	A	CODE	B	A	CODE	CODE	Ø	Ø1			
<b>OLD TYPE</b>														
<b>652</b>	23.8	61.3	412020003	36.0	2.9	12518	29.6	4.3	24504	208026873	47	18	512020051	
<b>654</b>	23.8	86.0	412040012	43.5	3.1	12516	36.6	4.8	24510	215046873	53	24	511040051	
<b>656</b>	30.2	99.4	412060012	54	3.7	12517	45.6	4.3	24516	215066872	68	26	511060051	
<b>658</b>	35	106	412080012	63	3.7	12521	54.6	4.3	24569	215086870	80	28	511080051	
<b>NEW TYPE</b>														
<b>G2</b>	22.0	76.0	4120C0051	36.0	2.9	12518	29.6	4.3	24504	2150C6864	47.4	21	5110C0053	
<b>G4</b>	22.0	86.0	4120E0051	43.5	3.1	12516	36.6	4.3	24510	2150E6885	53.4	24	5110E0052	
<b>G5</b>	27.0	100	4120G0051	51.5	2.7	12520	45.6	4.1	24511	2150G6891	62.4	28	5110G0061	
<b>G6</b>	27.0	100	4120G0051	54.0	3.7	12517	45.6	4.5	24516	2150G6893	68.4	28	5110G0061	
<b>1R6</b>	27.0	106	4120G0051	54.0	3.7	12517	45.6	4.5	24516	2150G6885	68.0	28	5110G0061	
<b>G8</b>	30.2	106	4120L0051	54.0	3.7	12517	45.6	5.8	24518	2150L6875	68.4	34	5110L0063	
<b>1R8</b>	30.2	106	4120L0051	54.0	3.7	12517	45.6	5.8	24518	2150L6873	80.0	34	5110L0063	



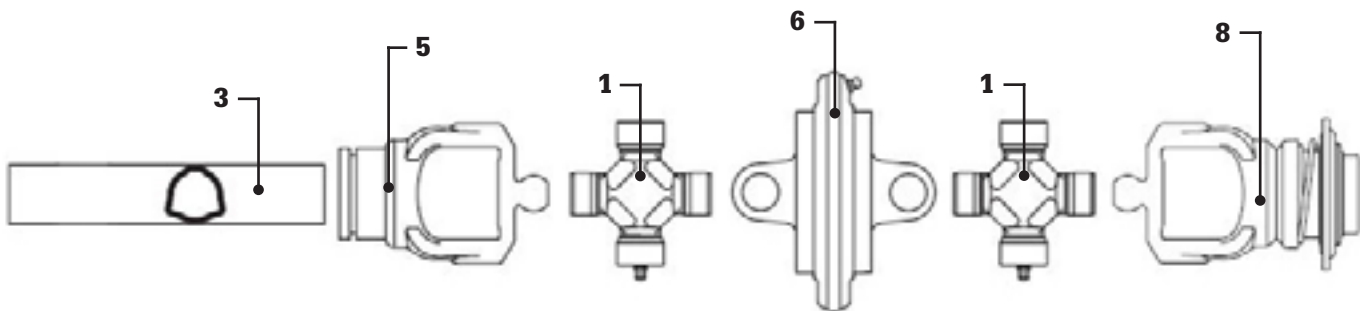
# WIDE ANGLE JOINT COMPONENTS



TRI SERIES

5			7			8			
INNER TUBE YOKE			HARD SHELL COVER	NEW CV CONE FLEXI	COMPLETE JOINT (OLD)	COMPLETE JOINT (NEW)	QUICK RELEASE END YOKES		
CODE	Ø	Ø1					1 3/8" Z6	1 3/8" Z21	1 3/4" Z20
<b>OLD TYPE</b>									
208026874	40	18	517027002	-	7G52049R07	-	573020379	573023764	573043875
215046874	46	24	517048001	-	7G54049T07	-	573040382	573043775	573043875
215066871	59	26	517068001	-	7G56049T07	-	573060399	573063781	573063875
215086869	68	28	517088001	-	7G58049T07	-	573080399	573083799	573083875
<b>NEW TYPE</b>									
2150C6865	40.4	21	-	219021401	-	7G2GWW49WR7	5730C0377	5730C3789	-
2150E6887	46.4	24	-	219041401	-	7G4GWW49WR7	5730E0384	5730E3784	5730E3884
2150G6892	53.4	28	-	219051401	-	7G5GWW49WR7	5730G0384	5730G3784	5730G3884
2150G6894	59.4	28	-	219051401	-	7G7GWW49WR7	5730G0384	5730G3784	5730G3884
2150G6887	59.0	28	-	2190G0150	-	71G6W49WR7	5730G0384	5730G3784	5730G3884
2150L6876	59.4	34	-	219081401	-	7G8GWW49WR7	5730L0384	5730L3784	5730L3884
2150L6874	68.0	34	-	517080200	-	71G8W49WR7	5730L0384	5730L3784	5730L3884

WIDE ANGLE COMPONENTS 70° & 80°



# STANDARD SAFETY COVERS

100 SERIES STANDARD SAFETY COVERS			
SERIES	INNER BEARING	OUTER BEARING	CODE
<b>1</b>	30.4	40.4	5F-01-121-FF
<b>2</b>	40.4	47.4	5F-02-121-FF
<b>3</b>	46.4	53.4	5F-03-121-FF
<b>4</b>	46.4	53.4	5F-04-121-FF
<b>5</b>	53.4	62.4	5F-05-121-FF
<b>6</b>	59.4	68.4	5F-06-121-FF
<b>7</b>	59.4	68.4	5F-07-121-FF
<b>8</b>	68.4	80.4	5F-08-121-FF
<b>9</b>	68.4	80.4	5F-09-121-FF
<b>10</b>	68.4	80.4	5F-10-121-FF



**100 series (old style)  
standard Safety covers**

GLOBAL SERIES STANDARD SAFETY COVERS			
SERIES	INNER BEARING	OUTER BEARING	CODE
<b>G1</b>	34.4	40.4	5CG1121FXSS
<b>G2</b>	40.4	47.4	5CG2121FXSS
<b>G3</b>	46.4	53.4	5CG3121FXSS
<b>G4</b>	46.4	53.4	5CG4121FXSS
<b>G5</b>	53.4	62.4	5CG5121FXSS
<b>G7</b>	59.4	68.4	5CG7121FXSS
<b>G8</b>	59.4	68.4	5CG8121FXSS
<b>G9</b>	59.4	68.4	5CG9121FXSS



**Global (new style)  
standard Safety covers**

**When ordering cover sets please specify required length**

**TRI SERIES**

**STANDARD SAFETY COVERS**

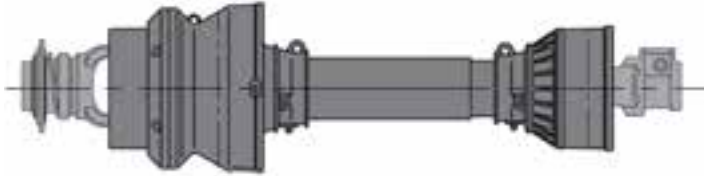


# WIDE ANGLE SAFETY COVERS



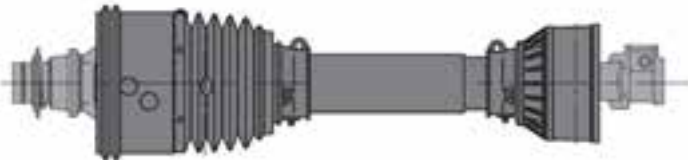
TRI SERIES

100 SERIES 70° WIDE ANGLE COMPLETE COVER				
SERIES	INNER BEARING	OUTER BEARING	WIDE ANGLE BEARING X2	CODE
<b>652</b>	40.4	47.4	83.4	5F-02-121-R1-652
<b>654</b>	46.4	53.4	105.4	5F-04-121-R1-654
<b>656</b>	59.4	68.4	125.4	5F-06-121-R1-656
<b>658</b>	68.4	80.4	140.4	5F-08-121-R1-658



**100 Series (old style) 70° Wide angle Safety covers**

1R SERIES 80° WIDE ANGLE COMPLETE COVER				
SERIES	INNER BEARING	OUTER BEARING	WIDE ANGLE BEARING	CODE
<b>1R2</b>	40.4	47.4	101.0	5F-02-121-R1-WIFX
<b>1R4</b>	46.4	53.4	101.0	5F-04-121-R1-WIFX
<b>1R6</b>	59.4	68.4	128.0	5F-06-121-R1-WIFX
<b>1R8</b>	68.4	80.4	147.0	5F-08-121-R1-WIFX



**100 Series 1R 80° Wide angle Safety covers**

GLOBAL SERIES 80° WIDE ANGLE COMPLETE COVER				
SERIES	INNER BEARING	OUTER BEARING	WIDE ANGLE BEARING	CODE
<b>G2</b>	40.4	47.4	101.0	5CG2121FXWS
<b>G4</b>	46.4	53.4	101.0	5CG4121FXWS
<b>G5</b>	53.4	62.4	128.0	5CG5121FXWS
<b>G7</b>	59.4	68.4	128.0	5CG7121FXWS
<b>G8</b>	59.4	68.4	147.0	5CG8121FXWS

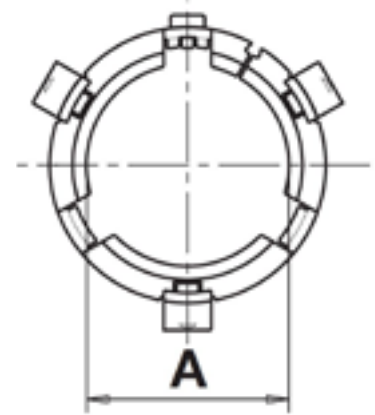


**Global (new style) Wide angle Safety covers**

WIDE ANGLE SAFETY COVERS

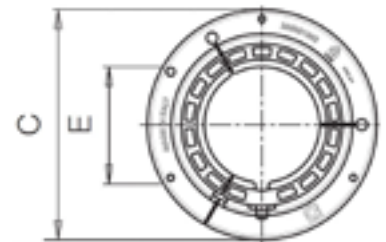
# SAFETY COVER BEARINGS

TYPE 1 BEARING 100 SERIES				
BEARING FOR OUTER TUBE YOKE			BEARING FOR INNER TUBE YOKE	
SERIES	A	CODE	A	CODE
<b>1</b>	40.4	255010005	30.4	255010006
<b>2</b>	47.4	255020005	40.4	255020006
<b>3-4</b>	53.4	255040005	46.4	255040006
<b>5</b>	62.4	255050005	53.4	255050006
<b>6-7</b>	68.4	255060005	59.4	255060006
<b>8-10</b>	80.4	255080005	68.4	255080006



Older version - tri-lug Type 1

TYPE 2 BEARING GLOBAL SERIES						
BEARING FOR OUTER TUBE YOKE				BEARING FOR INNER TUBE YOKE		
SERIES	E	C	CODE	E	C	CODE
<b>G1</b>	40.4	103	255011002	34.4	103	255011001
<b>G2</b>	47.4	103	255021002	40.4	103	255021001
<b>G3-4</b>	53.4	109	255041002	46.4	109	255041001
<b>G5</b>	62.4	124	255051002	53.4	124	255051001
<b>G7-9</b>	68.4	124	255071002	59.4	124	255071001



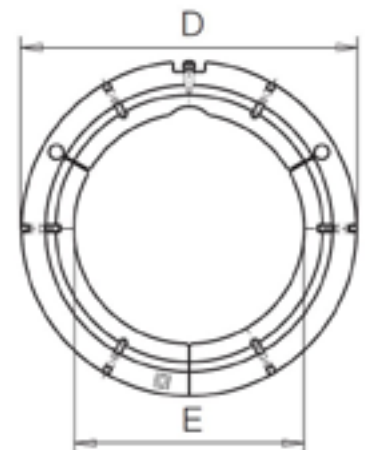
New Version - Global Type 2

100 SERIES WIDE ANGLE BEARINGS	
A	CODE
83.5	255020451
105.4	255040351
125.4	255060351
140.5	255080351



Old Type Bearing Rings

GLOBAL WIDE ANGLE BEARINGS		
D	E	CODE
160	101	2550E0005
187	128	2550G0024
206	147	2550L0023



80° Wide Angle Joint Bearing

Be sure to measure the bearing groove on the Yoke, remember to measure the inner and outer bearings as they are different. You can usually find the part number embossed into the plastic bearing.

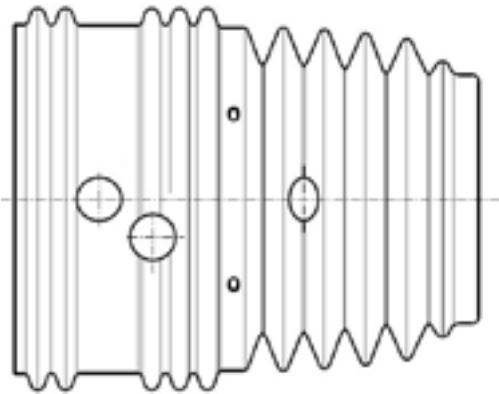




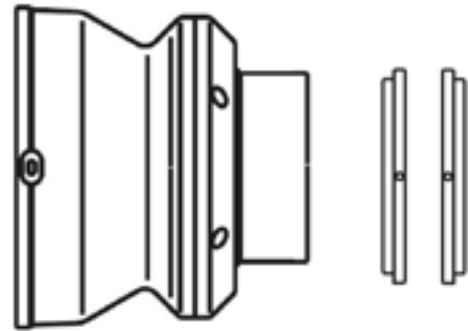
# END CONES

WIDE ANGLE CONE (NEW STYLE)		
SERIES	BEARING I.D.	CODE
<b>G2</b>	101	219021401
<b>G4</b>	101	219041401
<b>G5-G7</b>	128	219051401
<b>1R6</b>	128	2190G0150
<b>G8</b>	147	219081401
<b>1R8</b>	147	517080200

WIDE ANGLE CONE (OLD STYLE)		
SERIES	BEARING I.D.	CODE
<b>652</b>	83.4	517027002
<b>654</b>	105.4	517048001
<b>656</b>	125.4	517068001
<b>658</b>	140.4	517088001



**80° Wide Angle  
Flexi bellow with  
single bearing and  
screws.**



**70° Wide Angle 2 piece  
shell with 2 bearings  
and screws**



# COMPLETE DRIVESHAFTS

TRI SERIES

STANDARD DRIVESHAFT				
SERIES	HP	CROSS SIZE		CODE
<b>G1</b>	16-25	22.0	54.0	7G1N121FX007007
<b>G2</b>	21-31	23.8	61.3	7G2N121FX007007
<b>G3</b>	35-55	27.0	74.6	7G3N121FX007007
<b>G4</b>	35-55	27.0	74.6	7G4N121FX007007
<b>G5</b>	47-74	30.2	79.4	7G5N121FX007007
<b>G7</b>	64-100	30.2	91.4	7G7N121FX007007
<b>G8</b>	83-130	35.0	93.5	7G8N121FX007007
<b>G9</b>	95-150	35.0	106.0	7G9N121FX007007



WIDE ANGLE DRIVESHAFT				
SERIES	HP	CROSS SIZE		CODE
<b>G2</b>	21-34	22.0	76.0	7G2R121FXWR7007
<b>G4</b>	35-55	22.0	86.0	7G4R121FXWR7007
<b>G7</b>	64-100	27.0	100.0	7G7R121FXWR7007
<b>G8</b>	83-130	30.2	106.0	7G8R121FXWS7007



- **Please provide required length and yoke spline.**
- **We can custom build shafts to suit your requirements.**
- **We can fit clutches upon requests.**
- **All Tri series shafts come with Tri profile tube pictured below.**



COMPLETE DRIVESHAFTS



# UNIVERSAL JOINTS

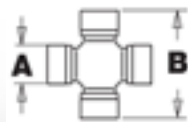
STANDARD UNIVERSAL JOINT			
A	B	CAP GREASING	CENTRE GREASING
20.0	50.0	-	41220
22.0	54.0	4120B0012	41201
23.8	61.3	4120C0012	41202
27.0	70.0	-	41203
27.0	74.6	4120E0012	41204
30.2	79.4	4120G0012	41205
30.2	91.5	4120H0012	41206
30.2	106.5	-	412070001
34.9	93.5	4120L0012	41207
34.9	106.0	4120M0012*	41208
41.0	108.0	-	41209
41.0	118.0	412100005*	41210
42.0	107.5	4120N0012*	-
42.0	130.0	4120S0012*	-
49.0	135.0	412200003*	412200001
50.0	140.0	4120K0001	-

WIDE ANGLE UNIVERSAL JOINT		
A	B	CODE
22.0	76.0	4120C0051
22.0	86.0	4120E0051
23.8	61.3	412020003
22.0&23.8	76.0&77.6	4120C0003
23.8	86.0	412040012
27.0	100.0	4120G0051
27.0&30.2	90.0&92.0	4120G0006
30.2	99.4	412060012
30.2	106.0	4120L0051
30.2&34.9	106&109	4120L0006
30.2	122.0	4120M0051
34.9	110.0	4120N0051
35.0	106.0	412080012

**\* Also available  
with greasing in all  
four cups.**



**Standard Universal  
With Cap Greasing**



**Standard Universal  
With Centre  
Greasing**

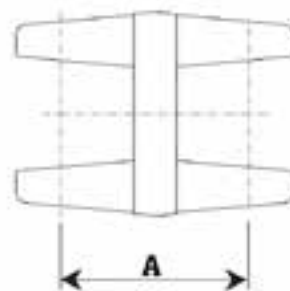


**Wide Angle  
Universal With Cap  
Greasing**

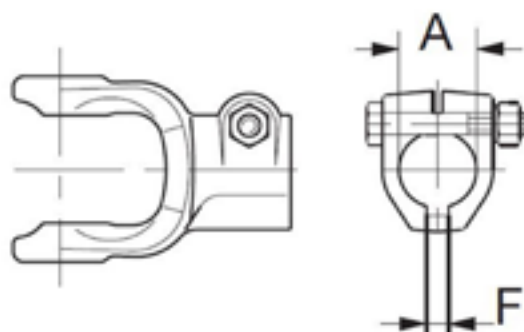
# H YOKES & ROUND BORE YOKES

BYPY

H YOKES		
CROSS SIZE	A	CODE
22x54	75	213010053
23.8x61.3	82	213020053
27x70	90	213030053
27x74.6	96	213040053
30.2x79.4	103	213050053
30.2x91.4	103	213060053



BORE YOKES			
CROSS SIZE	A	F	CODE
23.8x61.3	30mm	8mm	509026252
	1"	1/4"	509028551
27.0x74.6	30mm	8mm	509046252
	35mm	10mm	509046352
30.2x79.4	35mm	10mm	509056352
	1 1/4"	5/6"	509058651
30.2x91.4	30mm	8mm	509066252
	35mm	10mm	509066352
	40mm	12mm	509066452
	1 3/4"	3/8"	509068851
	1 1/4"	5/6"	509068651
35.0x93.5	35mm	10mm	509176352
	40mm	12mm	509176451
35.0x106.5	35mm	10mm	509086352
	40mm	12mm	509086452
	45mm	14mm	5090M6551



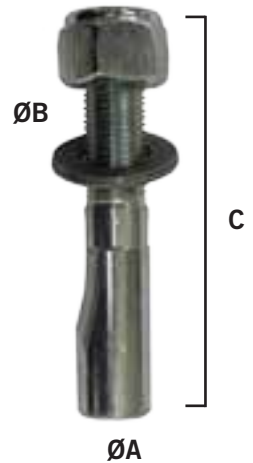
**Not all bore yokes are listed. Please contact Farmgard.**



# TAPERED PINS

TAPERED PIN KITS				
CODE	A	B	C	SUITS
408000075*	14	M12	63, 71, 73	1 3/8" Standard Yoke
408000076*	16	M14	79, 83, 83	1 3/4" Standard Yoke
408000046	16	M14	83	1 3/4" FV, FFV Clutches
408000047	14	M12	73	1 3/8" FV, FFV, FT, LR, RL Clutches
408000052	16	M14	72	1 3/4" LR, SB Clutches

Torque Settings For Taper Pins: 1 3/8"= 150Nm | 1 3/4"= 220Nm

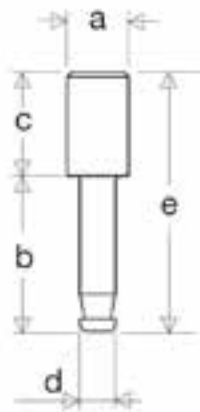


\*Comes with three pins. Use the pin that fits all the way into the hole.

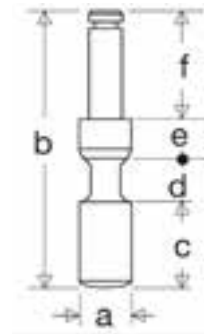
# PUSH PINS

PUSH PINS - TYPE 1 (LATER MODELS)					
CODE	A	B	C	D	E
403000001	13.85	20	27	8	47
403000010	13.85	29	37.5	8	66.5
403000020	13.85	14.2	23	8	37.2
403000032	13.85	34	26	8	60
403000011	15.85	30.5	38	8	68.5
403000012	15.85	25	35	8	60
403000008	15.85	28	29.5	8	57.5

PUSH PINS - TYPE 2 (OLD SERIES YOKES)						
CODE	A	B	C	D	E	F
401000001	13.85	74.5	22	12	11	29.5
401000009	13.85	81	20	22.5	10	28.5
401000028	13.85	91.5	27	22.5	10	32
401000033	13.85	91.5	33	13	13.5	32
401000007	15.85	83.5	23.5	22	9.5	28.5
401000010	15.85	87	25	15	14	33
401000021	15.85	83.5	26	14.5	13	30
401000026	15.85	94.5	32	15.5	13.5	33.5



**Type 1**



**Type 2**

# FRICTION DISCS

FRICTION DISC	
SIZE O.D X I.D	CODE
122mm x 67mm	247006151
140mm x 85mm	247000054
141mm x 77mm	247006251
150mm x 91mm	020003E
160mm x 85mm	247006351
160mm x 97mm	247000061
162mm x 85mm	247006311
162mm x 89mm	247006352
200mm x 130mm	824007



**\*Please note that when replacing friction discs, it is necessary to replace all the discs to get an effective repair.**

# BALL COLLAR KITS

STANDARD BALL COLLAR REPAIR KITS			
1 3/8"	SUITS	1 3/4" YOKES	SUITS
435000320	S1-S2 Yokes	435000418	S5-H7 Yokes
435000321	S4-H7 Yokes	435000419	S8-H8 Yokes
435000322	S8-S0 Yokes	435000425	S9 Yokes
		435000416	SH-S0 Yokes

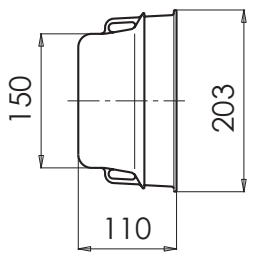
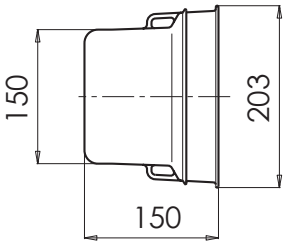
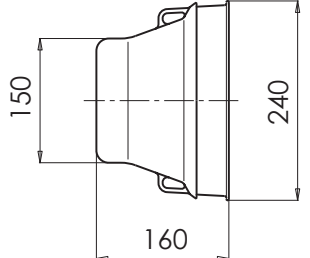
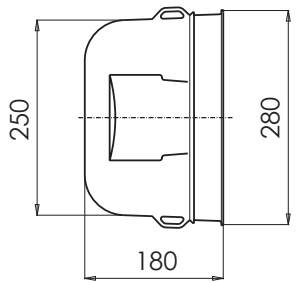
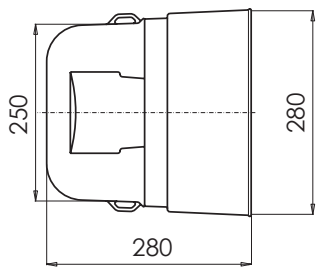
WIDE ANGLE SHAFT BALL COLLAR REPAIR KITS	
1 3/8" SPLINES	1 3/4" SPLINES
435000323	435000420

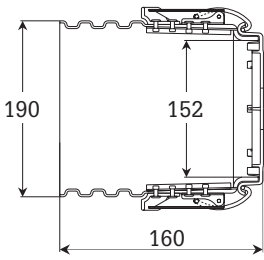
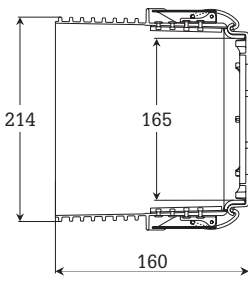
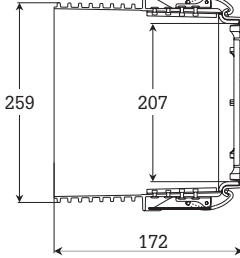
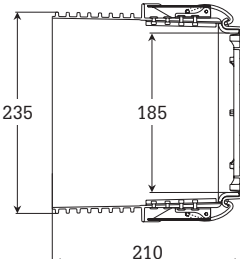
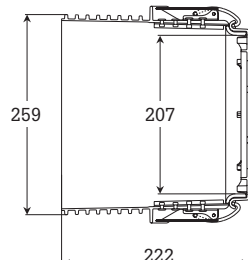


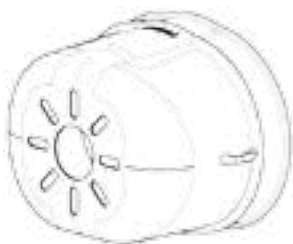
**\*Other special ball collar kits are available on request. If unsure on sizes, please don't hesitate to ask us.**



# IMPLEMENT SAFETY CONES

STANDARD CONE	
DIMENSIONS	CODE
	21901
	21902
	21903
	2190402
	517000E04

QUICK RELEASE CONE	
DIMENSIONS	CODE
	395001920
	395002120
	395002525
	395102340 (Extreme Heat Resistant)
	395102545 (Extreme Heat Resistant)





# BONDIOLI & PAVESI



## Safety Clutch



Overrun Clutch

42-47



Overload Ratchet Clutch

48-52



Shearbolt Clutch

53



Friction Clutch  
Friction Clutch With  
Internal Overrun

54-64



Cam Clutch/Automatic  
Torque Limiter

65-69

GENUINE PARTS

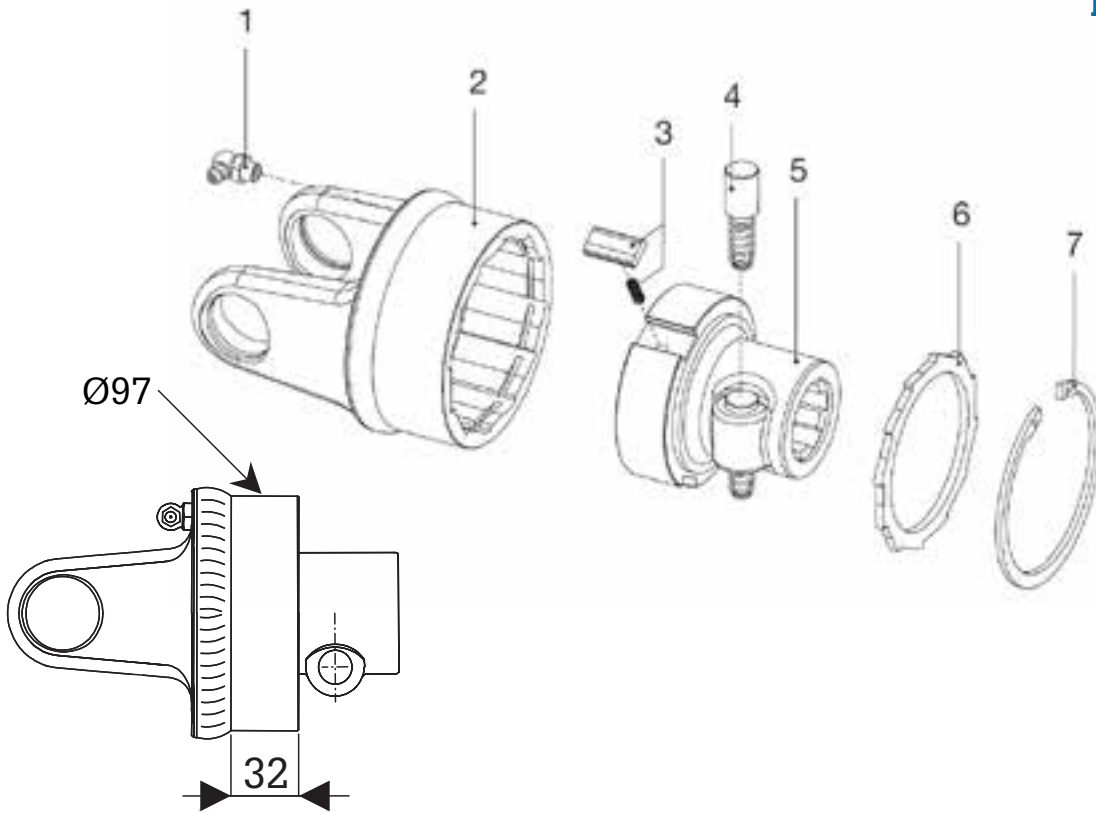


CLUTCH TYPE	MODEL	PAGE
Overrunning Clutch	<b>RA1</b>	42
	<b>RA2</b>	43-44
	<b>RA3</b>	45
	<b>RL2</b>	46
	<b>RL3</b>	47
Overload Ratchet Clutch	<b>SA2</b>	48
	<b>SA3</b>	49
	<b>LN2</b>	50
	<b>LN3</b>	51
	<b>LT4</b>	52
Shearbolt Yoke	<b>LB</b>	53
Friction Clutch (Disc Clutch)	<b>FF1,2</b>	54
	<b>FF3,4</b>	55
	<b>FFV34</b>	56
	<b>FFV44</b>	57
	<b>FV32</b>	58
	<b>FV34</b>	59
	<b>FV42</b>	60
	<b>FV44</b>	61
Friction Clutch With Internal Overrun clutch	<b>FNV34</b>	62
	<b>FNT34</b>	63
	<b>FNT44</b>	64
Cam Clutch With Internal Overrunning	<b>LR23-OR</b>	65
Cam Clutch Automatic Torque Limiter	<b>LR23</b>	66
	<b>LR24</b>	67
	<b>LR35</b>	68

**\*Other Special Clutches Not Listed May Be Available.**

# OVERRUN CLUTCH: RA1

Up To 2400NM  
Seasonal  
Lubrication

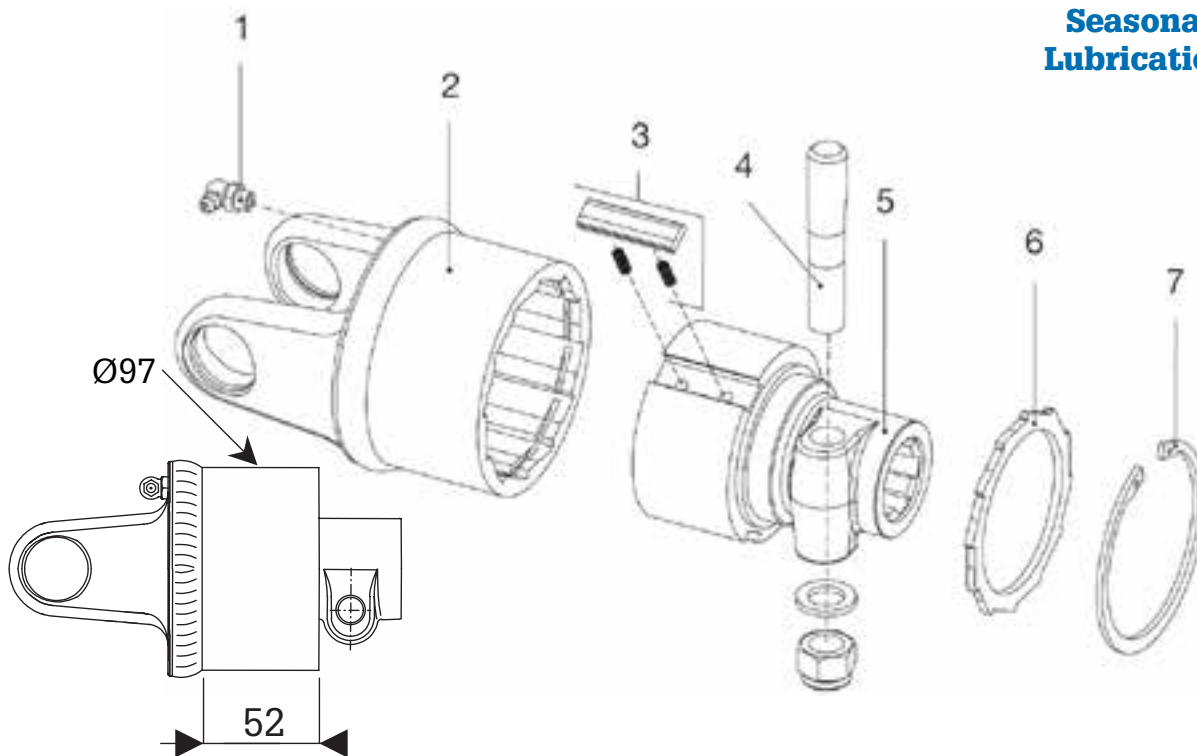


REFERENCE	CODE	DESCRIPTION	NOTES
Complete Clutch	601102701	1 3/8" Z6	Cross size: 23.8 x 61.3
	601104701		Cross size: 27.0 x 74.6
1	348014000	Grease Fitting	
2	418011201	Housing	Cross size: 22.0 x 54.0
	418021201		Cross size: 23.8 x 61.3
	418041201		Cross size: 27.0 x 74.6
	418051201		Cross size: 30.2 x 79.4
3	4210C0001	Pawl + Spring	22.7 x 13 x 4.9
4	403000001	Push Pin Kit	1 3/8" Z6
5	5130C0301	Hub With Push Pin	1 3/8" Z6
	5130C3701		1 3/8" Z21
6	246000132	Seal Plate	
7	338005000	Circlip	



# OVERRUN CLUTCH: RA2

Up To 3800NM  
Seasonal  
Lubrication

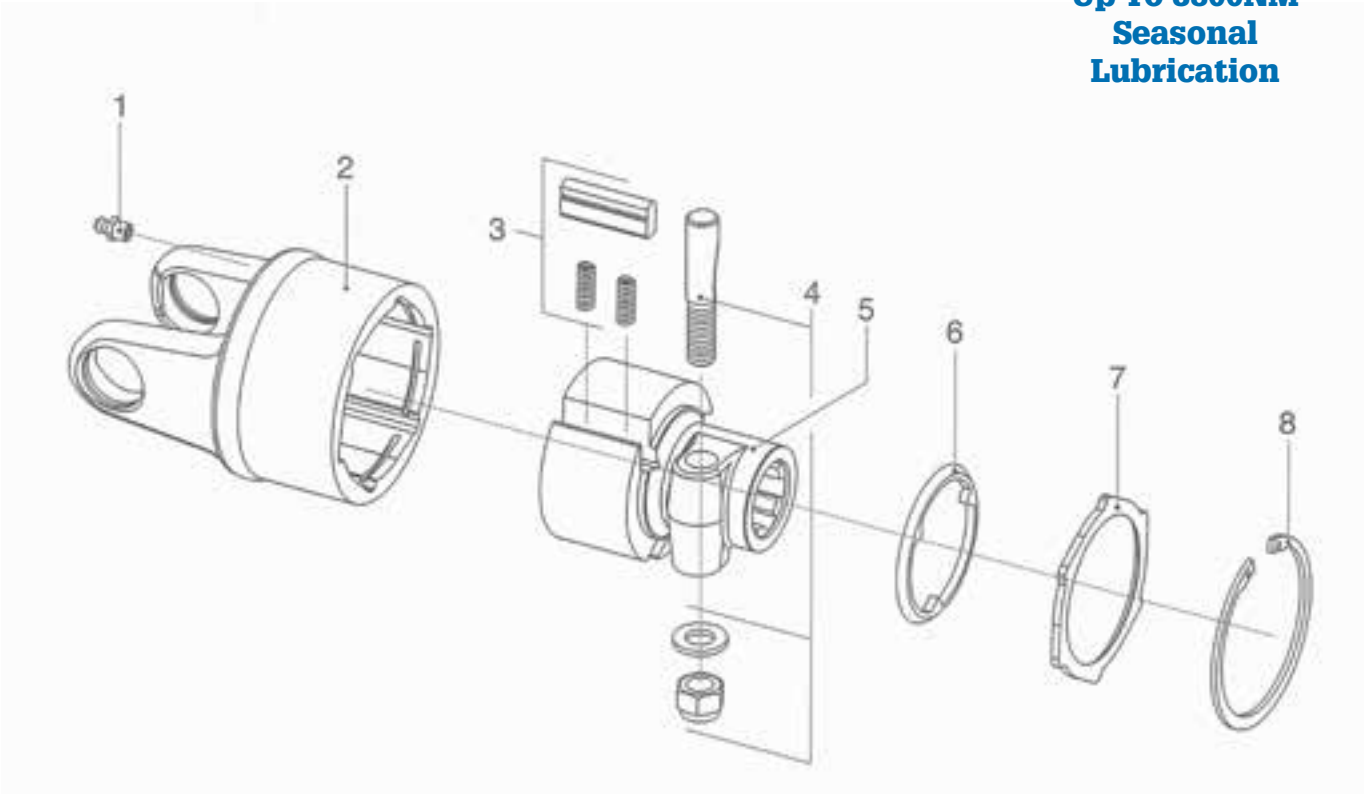


REFERENCE	CODE	DESCRIPTION	NOTES
Complete Clutch	601205601	1 3/8"Z6	Cross size: 30.2 x 79.4
	601217601		Cross size: 30.2 x 91.4
	601208601		Cross size: 34.9 x 93.5
1	348014000	Grease fitting	
2	418052203	Housing	Cross size: 30.2 x 79.4
	418062203		Cross size: 30.2 x 91.4
	418172203		Cross size: 34.9 x 93.5
3	4210E0001	Pawl + springs kit	42.5 x 13 x 4.9
4	408000047	Taper pin kit	1 3/8" Z6 - Z21
	408000046		1 3/4" Z6 - Z20
5	5150E0301	Hub with taper pin	1 3/8" Z6
	5150E3701		1 3/8" Z21
	5150E0401		1 3/4" Z6
	5150E3801		1 3/4" Z20
6	246000132	Seal plate	1 3/8" Z6 - Z21
	246000134	Two piece seal plate	1 3/4" Z6 - Z20
7	338005000	Circlip	

Left hand versions available. Please enquire

# OVERRUN CLUTCH: OLD RA2

Up To 3800NM  
Seasonal  
Lubrication

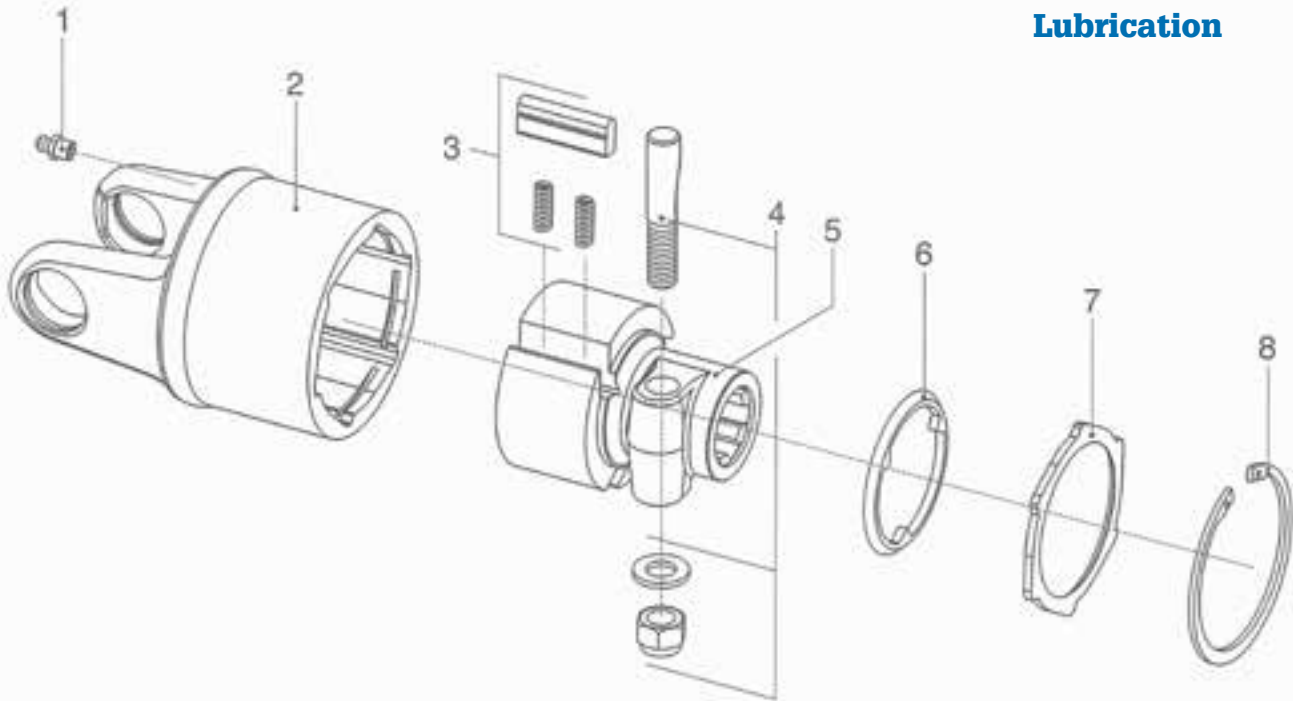


REFERENCE	CODE	DESCRIPTION	NOTES
1	348001000	Grease fitting	
2	418052120	Housing	Cross size: 30.2 x 79.4
	418062120		Cross size: 30.2 x 91.4
	418172120		Cross size: 35.0 x 93.5
	-		Cross size: 35.0 x 106.0
	-		Cross size: 41.0 x 108.0
	-		Cross size: 41.0 x 118.0
3	421022101	Pawl with springs	42 x 16.8 x 8
4	408000047	Taper pin	
5	515020305	Hub with taper pin	1 3/8" Z6
	-		1 3/8" Z21
6	246000005	Support ring	
7	246000010	Seal plate	
8	338005000	Retaining ring	



# OVERRUN CLUTCH: OLD RA3

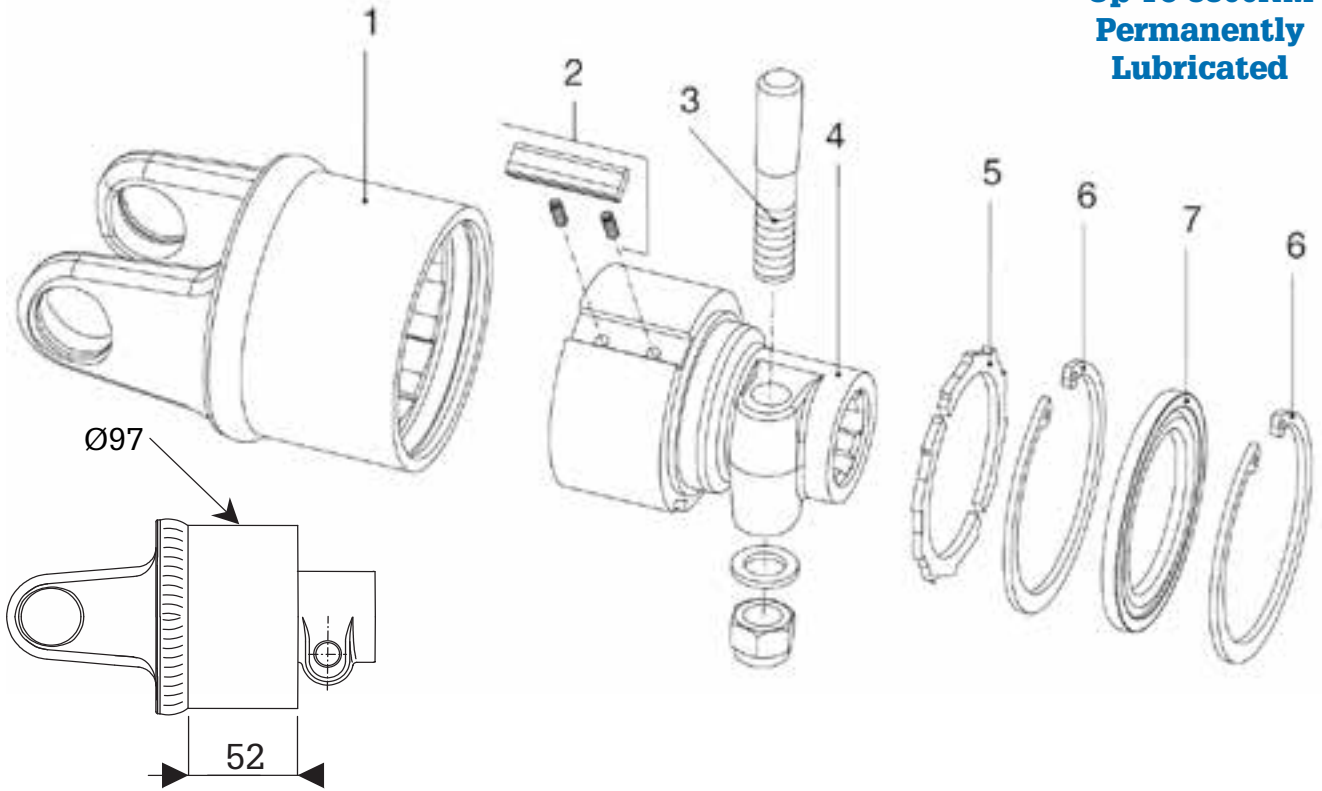
Up To 6200NM  
Seasonal  
Lubrication



REFERENCE	CODE	DESCRIPTION	NOTES
1	348001000	Grease fitting	
2	-	Housing	Cross size: 30.2 x 79.4
	-		Cross size: 30.2 x 91.4
	-		Cross size: 35.0 x 93.5
	418083004		Cross size: 35.0 x 106.0
	418193002		Cross size: 41.0 x 108.0
	418103101	Cross size: 41.0 x 118.0	
3	421463101	Pawl with springs	63 x 16.8 x 8
4	408000047	Taper pin	
5	515460305	Hub with taper pin	1 3/8" Z6
	515463702		1 3/8" Z21
6	246000005	Support ring	
7	246000010	Seal plate	
8	338005000	Retaining ring	

# OVERRUN CLUTCH: RL2

Up To 3800NM  
Permanently  
Lubricated

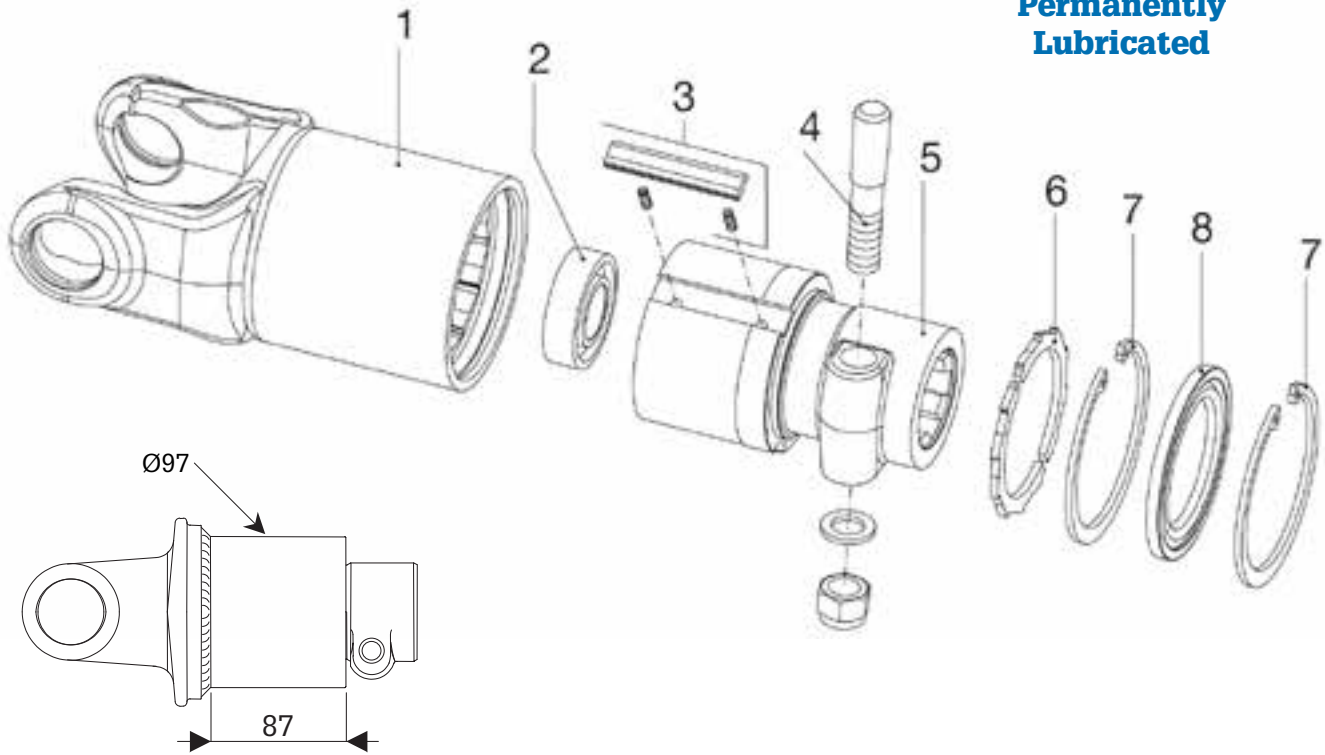


REFERENCE	CODE	DESCRIPTION	NOTES
Complete Clutch	60160G601	1 3/8"Z6	Cross size: 30.2 x 79.4
	60160H601		Cross size: 30.2 x 91.4
	60160L601		Cross size: 34.9 x 93.5
1	4180G6001	Housing	Cross size: 30.2 x 79.4
	4180H6001		Cross size: 30.2 x 91.4
	4180L6001		Cross size: 34.9 x 93.5
2	4210E0001	Pawl + Spring	42.5mm x 13mm x 4.9mm
3	408000047	Taper pin kit	1 3/8" Z6 - Z21
	408000046		1 3/4" Z6 - Z20
4	5150E0301	Hub with taper pin	1 3/8" Z6
	5150E3701		1 3/8" Z21
	5150E0401		1 3/4" Z6
	5150E3801		1 3/4" Z20
5	246000132	Seal plate	1 3/8" Z6 - Z21
	246000134	Two-piece seal plate	1 3/4" Z6 - Z20
6	338046000	Circlip	
7	359005900	Sealing ring	



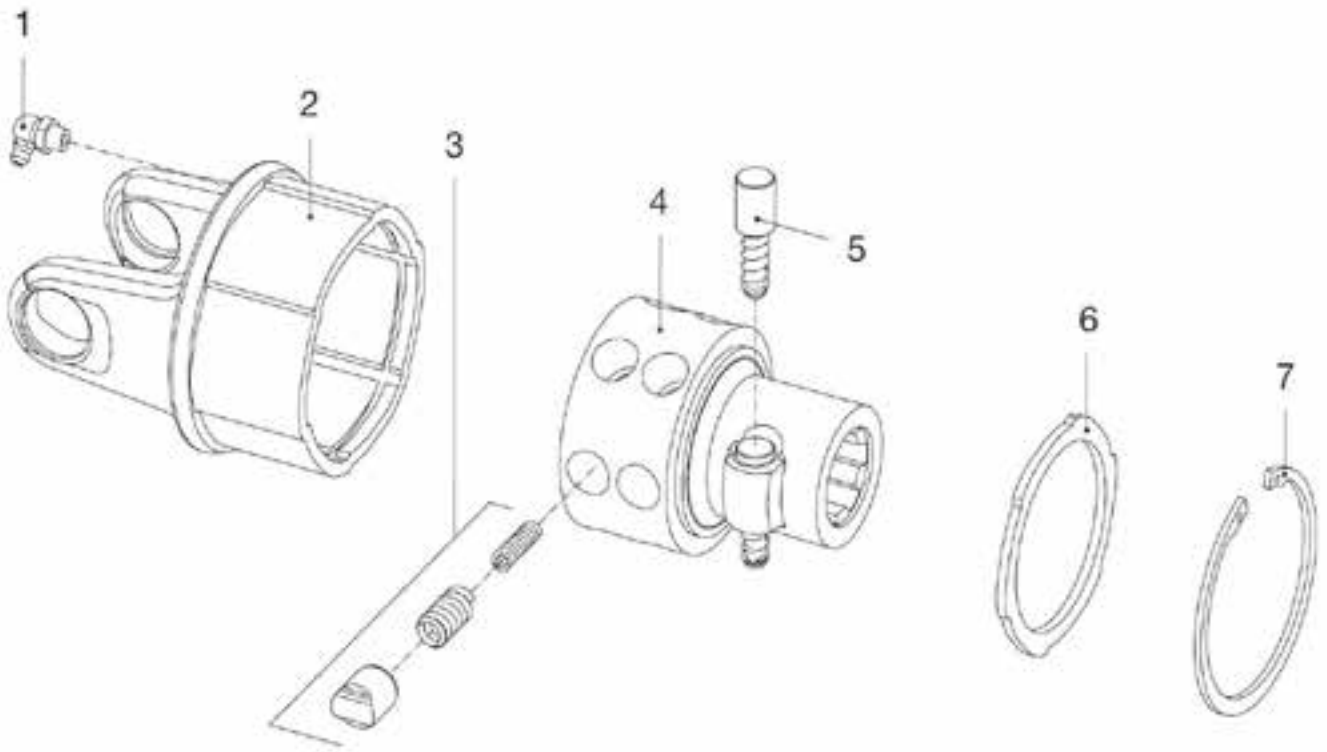
# OVERRUN CLUTCH: RL3

Up To 6200NM  
Permanently  
Lubricated



REFERENCE	CODE	DESCRIPTION	NOTES
Complete Clutch	60170M501	1 3/8"Z6	Cross size: 34.9 x 106.0
1	4180L7001	Housing	Cross size: 34.9 x 93.5
	4180M7001		Cross size: 34.9 x 106.0
	4180N7001		Cross size: 42.0 x 107.5
	4180S7001		Cross size: 42.0 x 130.0
2	354110025	Ball bearing	6205 (25 x 52 x 15)
3	4210G0001R03	3 Piece Pawl + Spring	62.5mm x 13mm x 4.9mm
4	408000047	Taper pin kit	1 3/8" Z6 - Z21
	408000046		1 3/4" Z6 - Z20
5	5150G0306	Hub with taper pin	1 3/8" Z6
	5150G3706		1 3/8" Z21
	5150G0406		1 3/4" Z6
	5150G3806		1 3/4" Z20
	5150G0307		1 3/8" Z6
	5150G3707		1 3/8" Z21
	5150G0407		1 3/4" Z6
	5150G3807		1 3/4" Z20
6	246000132	Seal plate	1 3/8" Z6 - Z21
	246000134	Two-piece seal plate	1 3/4" Z6 - Z20
7	338046000	Circlip	
8	359005900	Sealing ring	

## OVERLOAD RATCHET: SA2



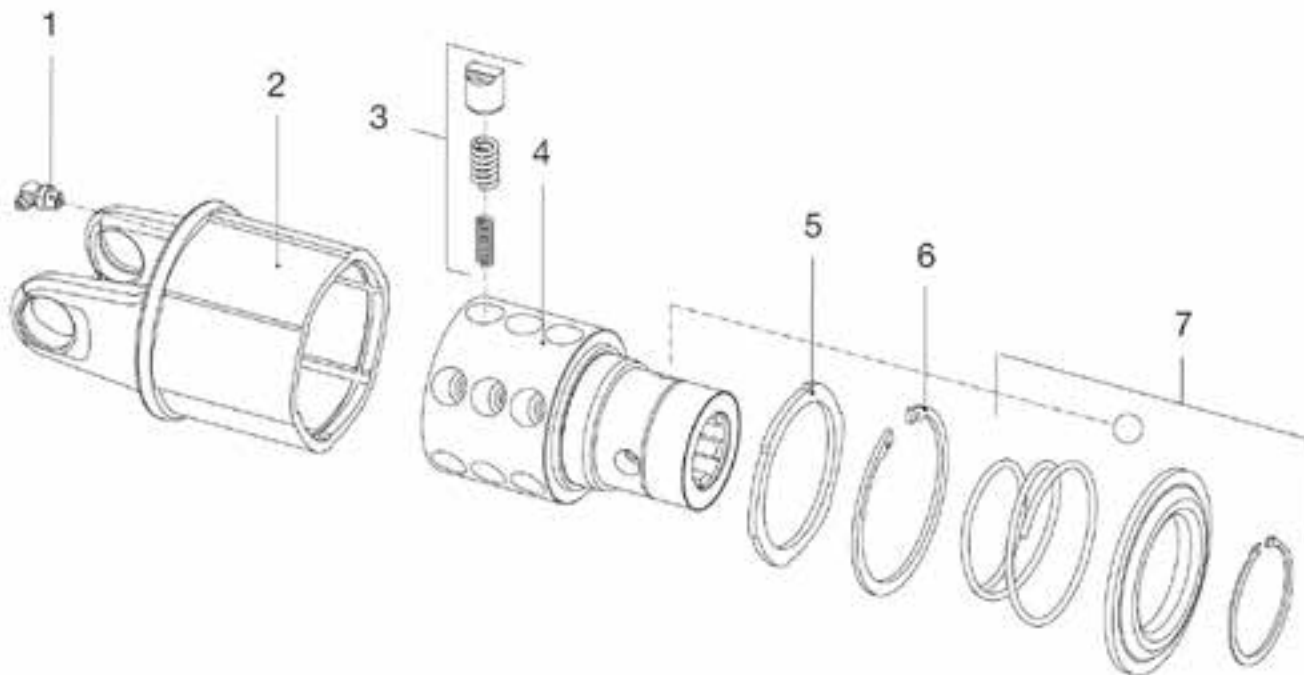
REFERENCE	CODE	DESCRIPTION	NOTES
1	34801400	Grease fitting	
2	422012020	Housing	Cross size: 22.0 x 54.0
	422022020		Cross size: 23.8 x 61.3
3	421340001	Ratchet + springs	
4	513350302	Hub	1 3/8" Z6
5	403000001	Push pin kit	
6	240000033	Seal plate	
7	338005000	Circlip	

**This clutch is out of production and only available as spare parts.**





# OVERLOAD RATCHET: SA3

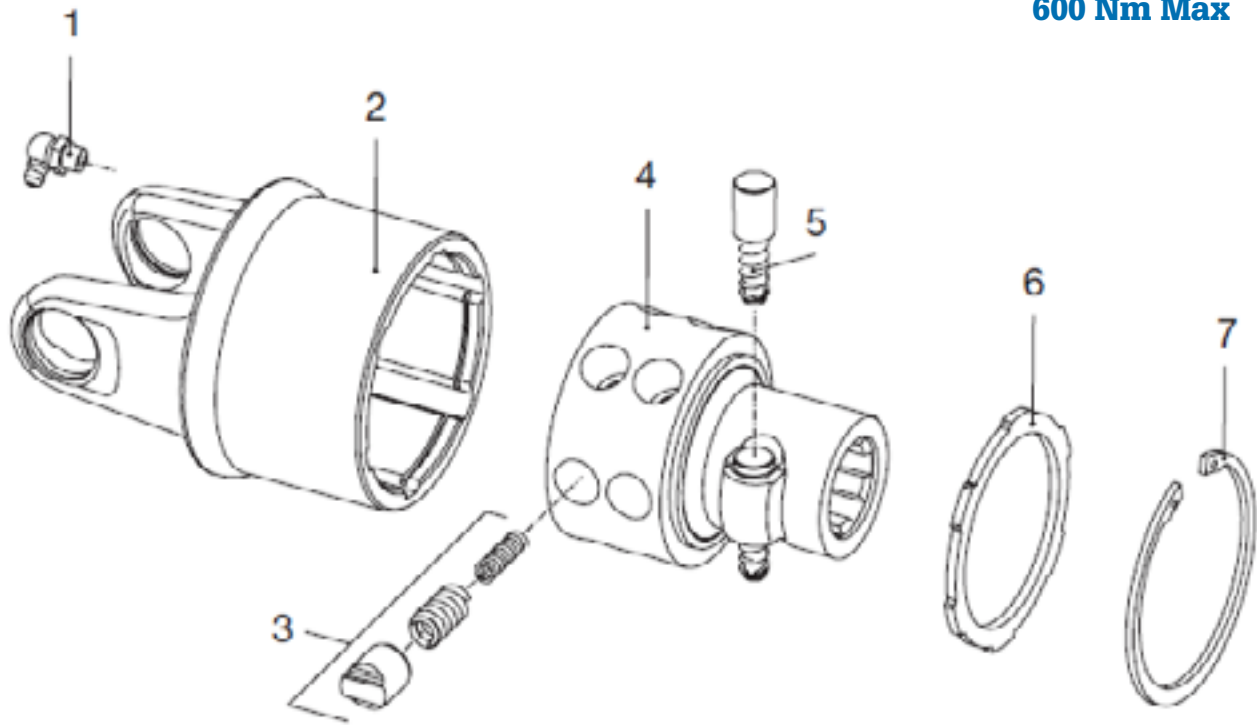


REFERENCE	CODE	DESCRIPTION	NOTES
1	348014000	Grease fitting	
2	422023020	Housing	Cross size: 23.8 x 61.3
	422043020		Cross size: 27.0 x 74.6
	422053020		Cross size: 30.2 x 79.4
3	421340001	Ratchet + springs	
4	2270Q0303	Hub	1 3/8" Z6
5	240000033	Seal plate	
6	338005000	Circlip	
7	435000321	Ball collar kit	

**This clutch is out of production and only available as spare parts.**

# OVERLOAD RATCHET: LN2

**Ratchet Torque  
Limiter (2 Rows)  
Seasonal Lubrication  
600 Nm Max**

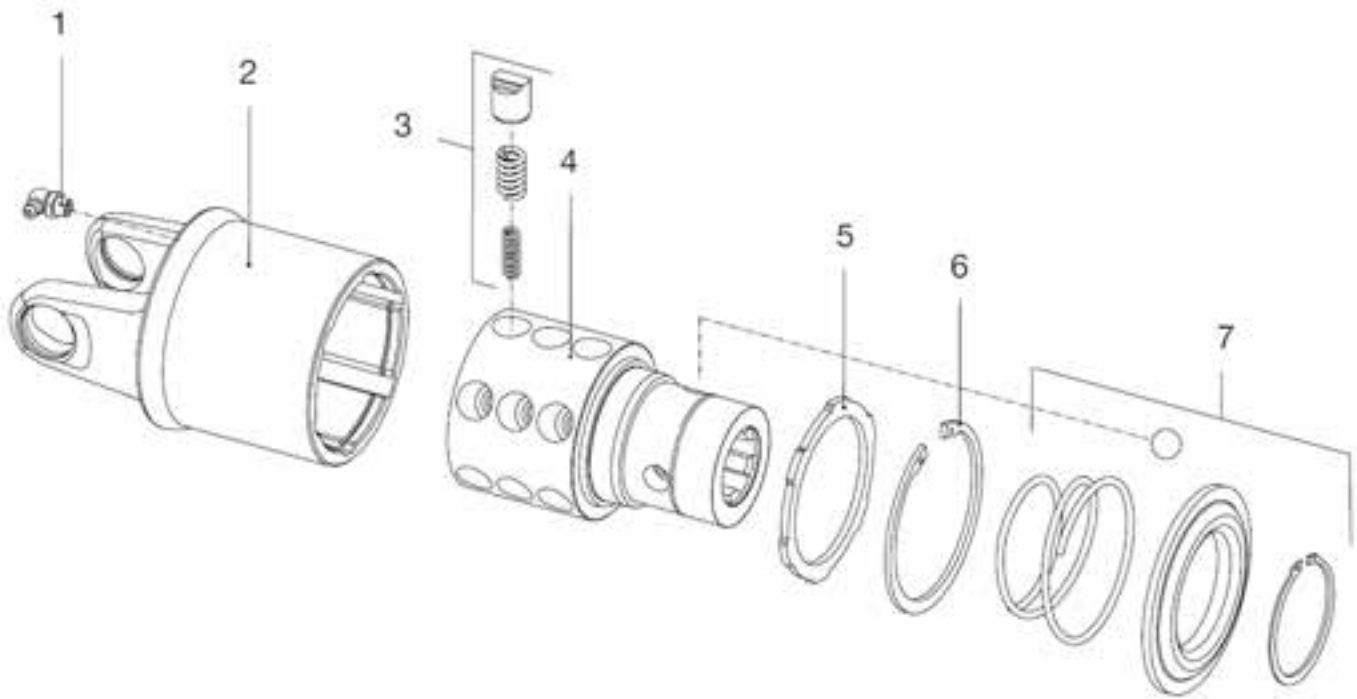


REFERENCE	CODE	DESCRIPTION	NOTES
Complete Clutch	60A2C3203	1 3/8" Z6	Cross size: 23.8 x 61.3
1	348014000	Grease fitting	
2	422B0T301	Housing	Cross size: 22.0 x 54.0
	422C0T301		Cross size: 23.8 x 61.3
3	421340007	Ratchet + springs	Sold in pack of 6
4	513350302	Hub with push pin	1 3/8" Z6
5	403000001	Push pin kit	
6	240000294	Seal plate	
7	338005000	Circlip	



# OVERLOAD RATCHET: LN3

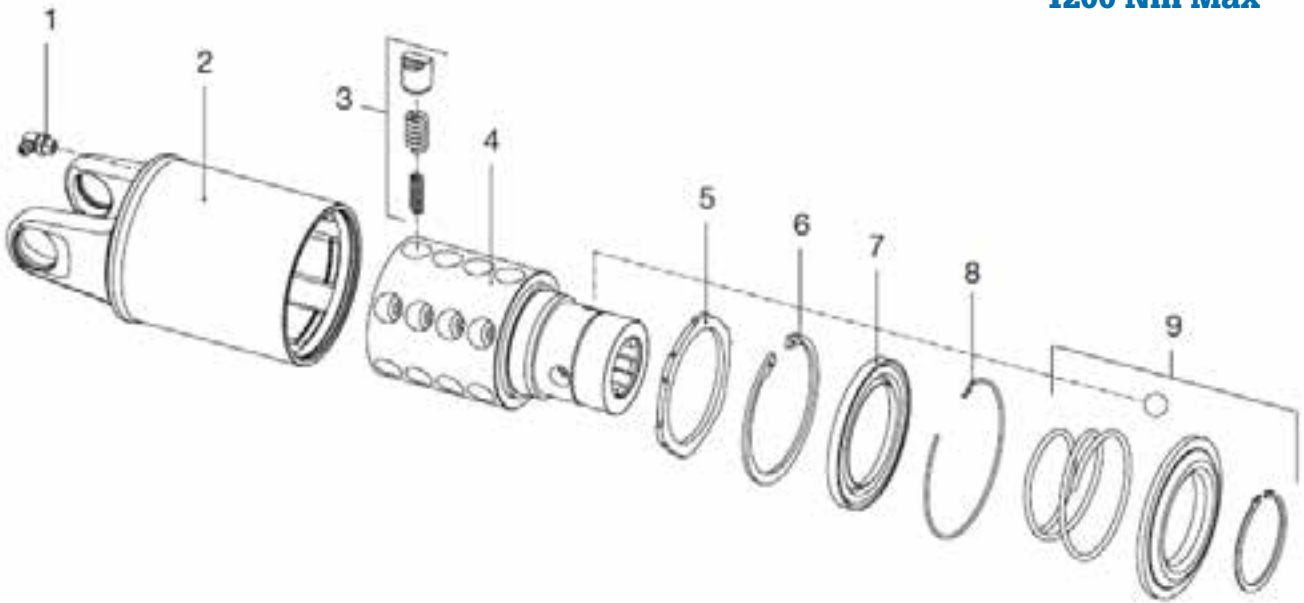
**Ratchet Torque  
Limiter (3 Rows)  
Seasonal Lubrication  
900 Nm Max**



REFERENCE	CODE	DESCRIPTION	NOTES
Complete Clutch	60B3C4103	1 3/8" Z6	Cross size: 23.8 x 61.3
1	348014000	Grease fitting	
2	422C0U301	Housing	Cross size: 23.8 x 61.3
3	421340007	Ratchet + springs	Sold in pack of 6
4	2270Q0303	Hub	1 3/8" Z6
5	240000294	Seal plate	
6	338005000	Circlip	
7	435000321	Ball collar kit	

# OVERLOAD RATCHET: LT4

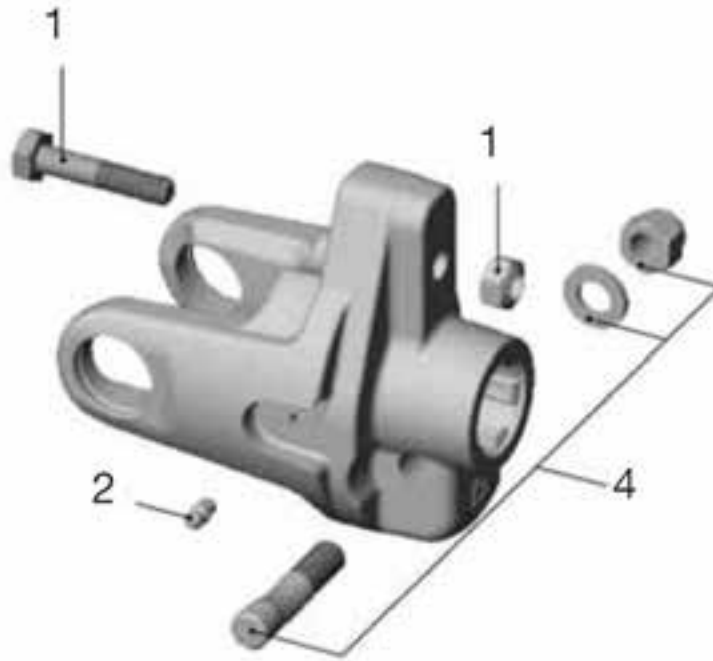
**Ratchet Torque  
Limiter (4 Rows)  
Seasonal Lubrication  
1200 Nm Max**



REFERENCE	CODE	DESCRIPTION	NOTES
Complete Clutch	60F4E4803	1 3/8" Z6	Cross size: 27.0 x 74.6
1	348014000	Grease fitting	
2	422C0J301	Housing	Cross size: 23.8 x 61.3
	422E0J301		Cross size: 27.0 x 74.6
	422G0J301		Cross size: 30.2 x 79.4
3	421340007	Ratchet + springs	Sold in pack of 6
4	2270R0302	Hub	1 3/8" Z6
5	240000294	Seal plate	
6	338005000	Circlip	
7	359005901	Sealing ring	
8	339004090	Circlip	
9	435000321	Ball collar kit	



# SHEARBOLT YOKE



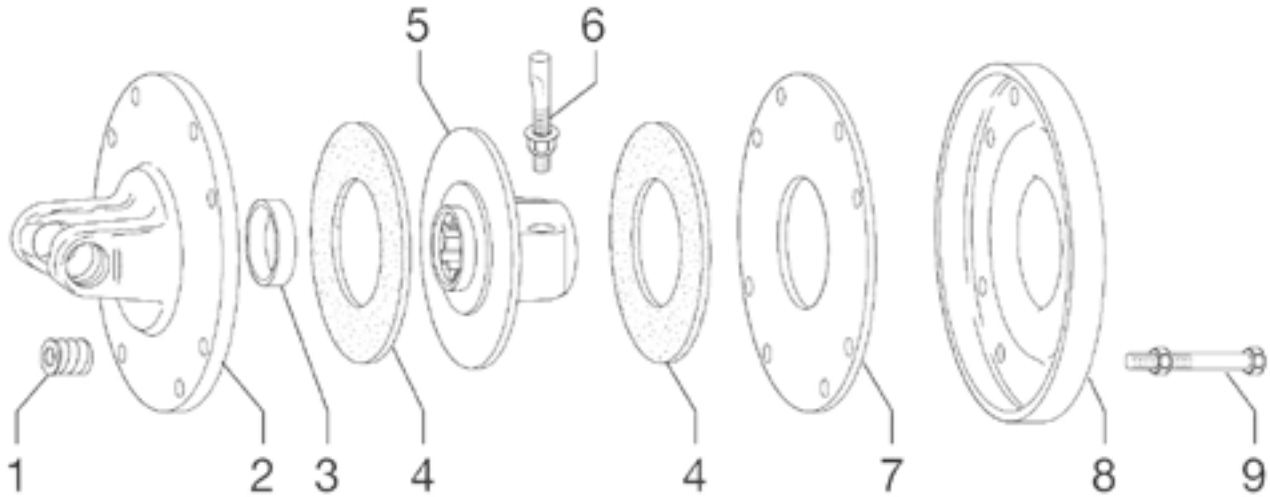
REFERENCE	CODE	DESCRIPTION	NOTES
Complete Clutch	6060H0302R	1 3/8" Z6 *	Cross size: 30.2 x 91.5
	6060L0403R		Cross size: 34.9 x 93.5
	6060M0403R	1 3/4" Z6 *	Cross size: 34.9 x 106.0
	606010002R		Cross size: 41.0 x 118.0
	6060N0407R		Cross size: 42.0 x 107.5
	606010019R	1 3/4" Z20 *	Cross size: 41.0 x 118.0
1	432000002	Shearbolt	M6x40 Cl. 8.8
	432000003		M8x45 Cl. 8.8
	432000054		M10x55 Cl. 8.8
	432000124		M12x55 Cl. 8.8
	432000011		M12x65 Cl. 8.8
	432000055		M14x70 Cl. 8.8
2	348017000	Grease fitting	
4	408000048	Taper pin	1 3/8" Z6 - Z21
	408000052		1 3/4" Z6 - Z20

**\*Other splines are available.**

# FRICION CLUTCH: FF1 & FF2

**FF1 = 2 Discs, 180mm Diameter, 140 x 85 Disc size**

**FF2 = 2 Discs, 200mm Diameter, 160 x 97 Disc size**



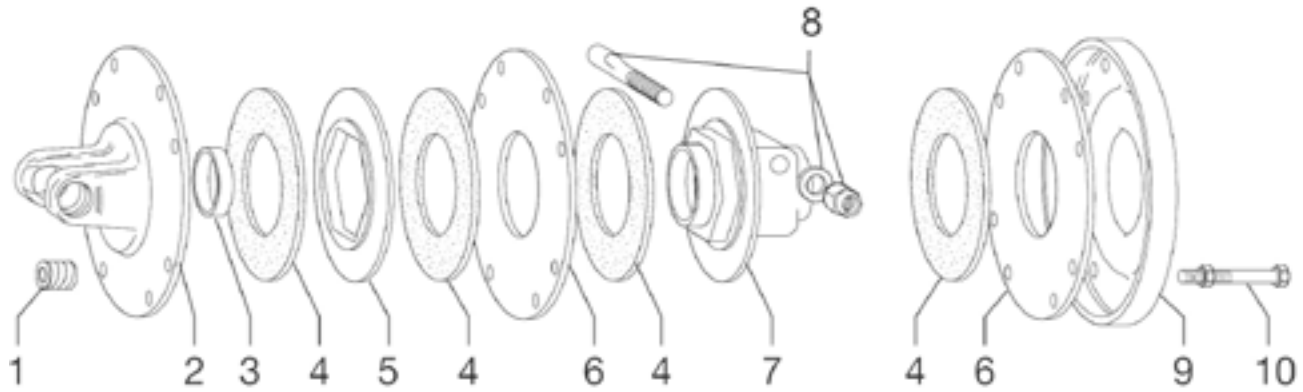
	FF1 (180MM)	FF2 (200MM)	DESCRIPTION	NOTES
	351013370			Ø 7mm
2	253032001	-	Flange yoke	Cross size: 27.0 x 70.0
	253042001	-		Cross size: 27.0 x 74.6
	253052001	253052101		Cross size: 30.2 x 79.4
	253062203	253062302		Cross size: 30.2 x 91.4
	-	253172302		Cross size: 35.0 x 93.5
	-	253082302		Cross size: 35.0 x 106.0
3	258005320		Bush	
4	247000054	-	Friction disk	140mm x 85mm
		247000061		160mm x 97mm
5	515200311	515210311	Hub with taper pin	1 3/8" Z6
	515203711	515213711		1 3/8" Z21
	-	515210411		1 3/4" Z6
	-	515213811		1 3/4" Z20
6	408000060	408000060	Taper pin kit	1 3/8"
	-	408000061		1 3/4"
7	248220008	248230002	Drive plate	
8	248220007	248230006	Thrust flange	
9	432000006		Bolt	



# FRICITION CLUTCH: FF3 & FF4

**FF3 = 4 Discs, 180mm Diameter, 140 x 85 Disc size**

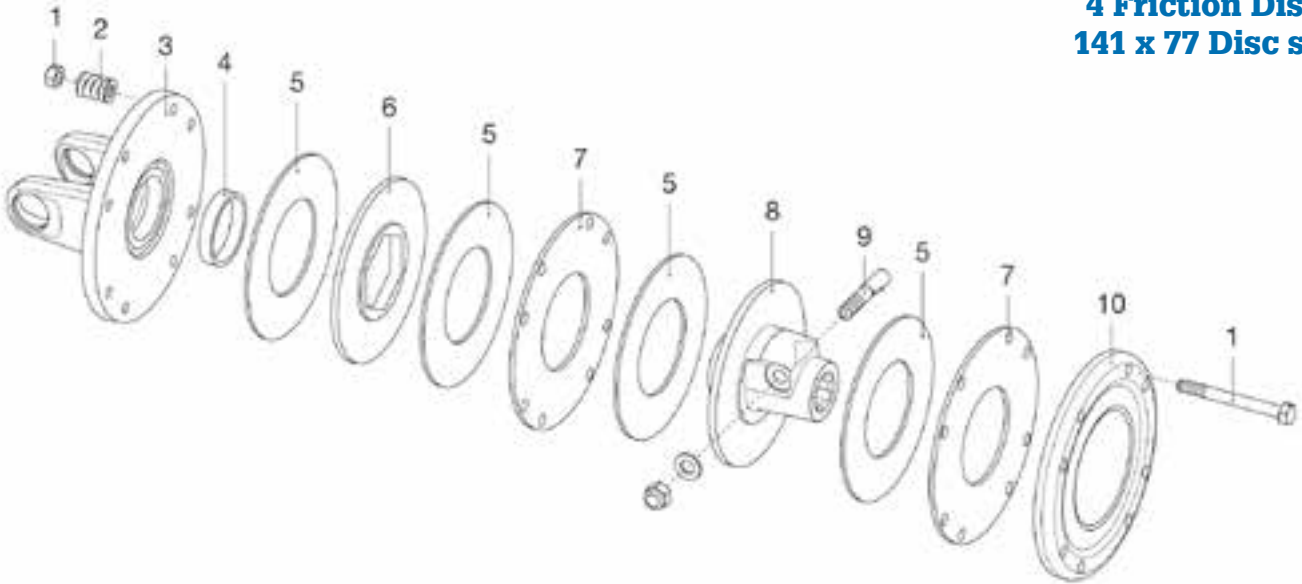
**FF4 = 4 Discs, 200mm Diameter, 160 x 97 Disc size**



	FF3 (180MM)	FF4 (200MM)	DESCRIPTION	NOTES
	351013370			Ø 7mm
2	253052001	-	Flange yoke	Cross size: 30.2 x 79.4
	253062203	253062302		Cross size: 30.2 x 91.4
	253172201	253172302		Cross size: 35.0 x 93.5
	253082201	253082302		Cross size: 35.0 x 106.0
	-	253192301		Cross size: 41.0 x 108.0
	-	253102301		Cross size: 41.0 x 118.0
3	258005320		Bush	
4	247000054	-	Friction disk	140mm x 85mm
	-	247000061		160mm x 97mm
5	248220001	275230004	Drive plate	
6	248220008	248230002	Inner plate	
7	515200311	515230311	Hub with taper pin	1 3/8" Z6
	515223711	515233711		1 3/8" Z21
	515220411	515230411		1 3/4" Z6
	515223811	515233811		1 3/4" Z20
8	408000060		Taper pin kit	1 3/8"
	408000061			1 3/4"
9	248220007	248230006	Thrust flange	
10	432000007		Bolt	

# FRICION CLUTCH: FFV34

**180mm Diameter**  
**4 Friction Discs**  
**141 x 77 Disc size**



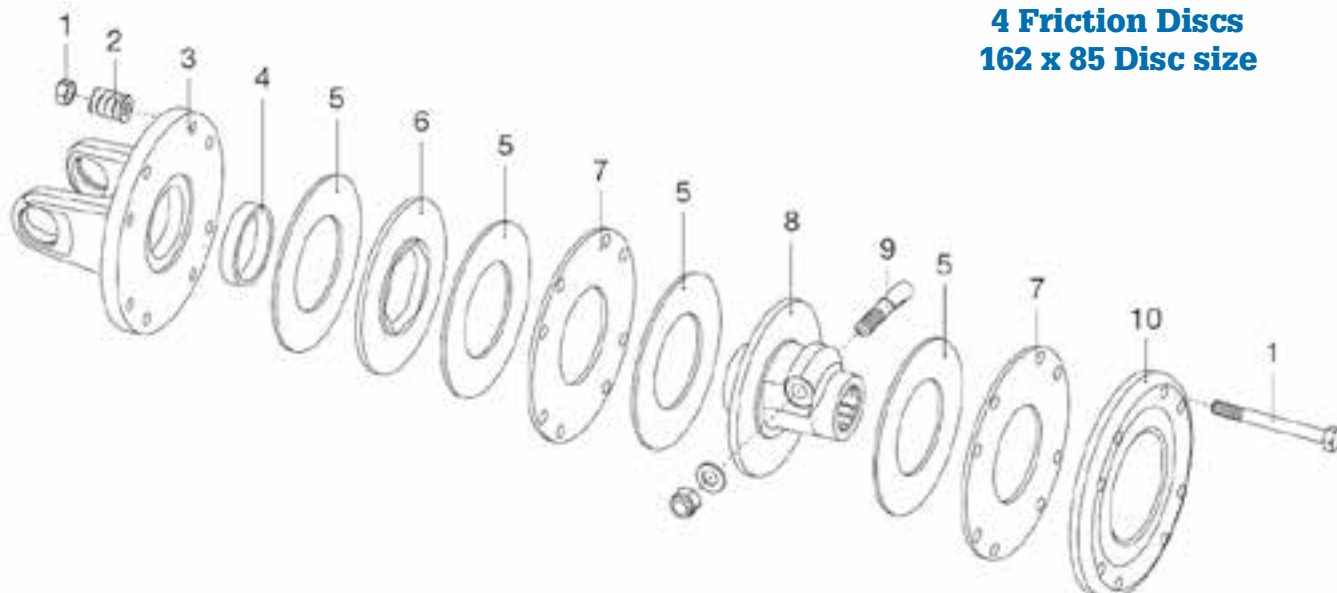
REFERENCE	CODE	DESCRIPTION	NOTES
Complete Clutch	635H53303	Complete Clutch	Cross size: 30.2 x 91.4
1	432000007	Bolt and nut	M10 x 100 mm
2	351022370	Coil spring	T = 6 mm
3	2530E1C05	Flange yoke	Cross size: 27.0 x 74.6
	2530G1C05		Cross size: 30.2 x 79.4
	2530H1C05		Cross size: 30.2 x 91.4
	2530L1C05		Cross size: 34.9 x 93.5
	2530M1C05		Cross size: 34.9 x 106.0
4	258005320	Bushing	
5	247006251	Friction disc	D = 141 ; d = 77 mm
6	248727702	Drive plate	
7	2481C0007	Inner plate	T = 4 mm
8	515890305	Hub with taper pin	1 3/8" Z6
	515893705		1 3/8" Z21
	515890405		1 3/4" Z6
	515893805		1 3/4" Z20
9	408000047	Taper pin	1 3/8" Z6 - Z21
	408000049		1 3/4" Z6 - Z20
10	248220007	Pressure plate	





# FRICION CLUTCH: FFV44

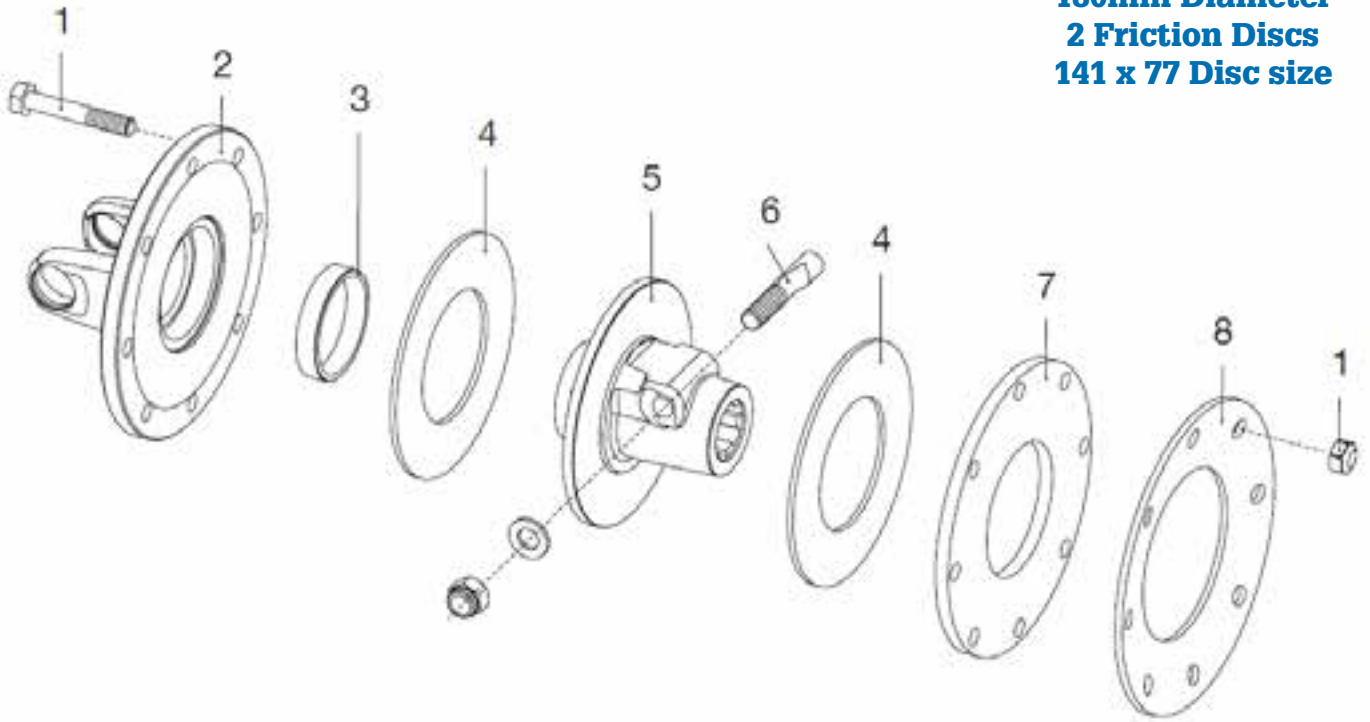
**202mm Diameter  
4 Friction Discs  
162 x 85 Disc size**



REFERENCE	CODE	DESCRIPTION	NOTES
Complete Clutch	635M60504	Complete Clutch	Cross size: 34.9 x 106.0
1	432000122	Bolt and nut	M10 x 105 mm
2	351013370	Coil spring	T = 7 mm
3	2530L1E05	Flange yoke	Cross size: 34.9 x 93.5
	2530M1E05		Cross size: 34.9 x 106.0
	2530N1E05		Cross size: 42.0 x 107.5
	2530S1E05		Cross size: 42.0 x 130.0
4	258005320	Bushing	
5	247006351	Friction disc	D = 162 ; d = 85 mm
6	248737702	Drive plate	
7	2481E0007	Inner plate	T = 4 mm
8	515900305	Hub with taper pin	1 3/8" Z6
	515903705		1 3/8" Z21
	515900405		1 3/4" Z6
	515903805		1 3/4" Z20
9	408000047	Taper pin	1 3/8" Z6 - Z21
	408000046		1 3/4" Z6 - Z20
10	248230006	Pressure plate	

# FRICTION CLUTCH: FV32

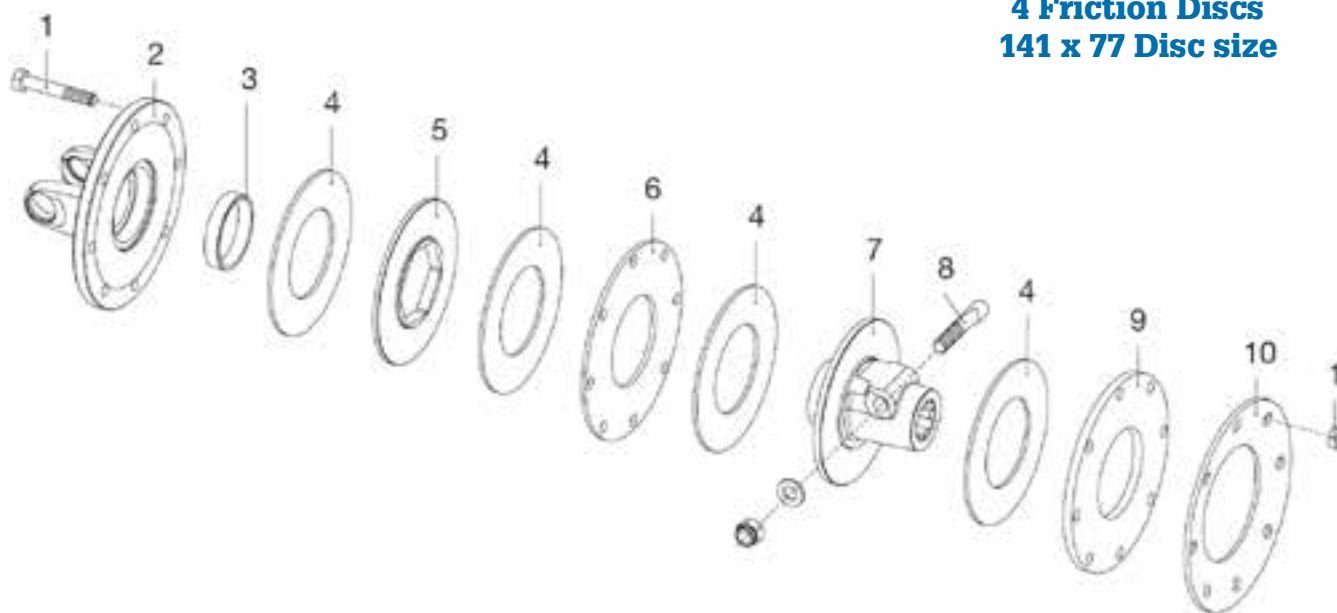
**180mm Diameter**  
**2 Friction Discs**  
**141 x 77 Disc size**



REFERENCE	CODE	DESCRIPTION	NOTES
Complete Clutch	661G44203	1 3/8" Z6	Cross size: 30.2 x 79.4
1	432000054	Bolt and nut	M10 x 55 mm
2	253048602	Flange yoke	Cross size: 27.0 x 74.6
	253058901		Cross size: 30.2 x 79.4
3	258005320	Bushing	
4	247006251	Friction disc	D = 141 ; d = 77 mm
5	515860305	Hub with taper pin	1 3/8" Z6
	515863705		1 3/8" Z21
6	408000047	Taper pin	1 3/8" Z6 - Z21
7	248860007	Inner plate	T = 8 mm
8	367008860	Belleville spring	T = 3.75 mm

# FRICTION CLUTCH: FV34

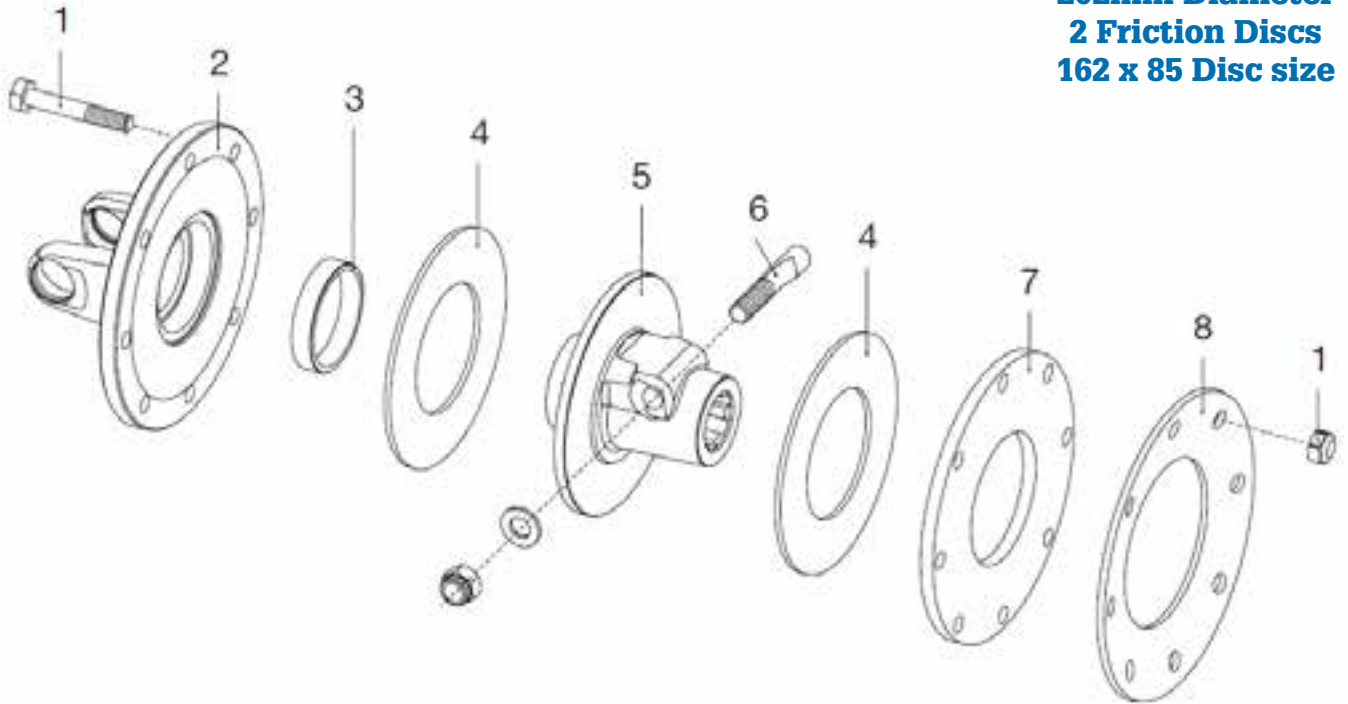
**180mm Diameter**  
**4 Friction Discs**  
**141 x 77 Disc size**



REFERENCE	CODE	DESCRIPTION	NOTES
Complete Clutch	661M58304	Complete Clutch	Cross size: 34.9 x 106.0
1	432000114	Bolt and nut	M10 x 75 mm
2	253048602	Flange yoke	Cross size: 27.0 x 74.6
	253058901		Cross size: 30.2 x 79.4
	253068903		Cross size: 30.2 x 91.4
	253078601		Cross size: 34.9 x 93.5
	253088903		Cross size: 34.9 x 106.0
3	258005320	Bushing	
4	247006251	Friction disc	D = 141 ; d = 77 mm
5	248727702	Drive plate	
6	248860001	Inner plate	Sp. = 4 mm
7	515890305	Hub with taper pin	1 3/8" Z6
	515893705		1 3/8" Z21
	515890405		1 3/4" Z6
	515893805		1 3/4" Z20
8	408000047	Taper pin	1 3/8" Z6 - Z21
	408000049		1 3/4" Z6 - Z20
9	248860007	Inner plate	T = 8 mm
10	367008860	Belleville spring	T = 3.75 mm

# FRICION CLUTCH: FV42

202mm Diameter  
2 Friction Discs  
162 x 85 Disc size

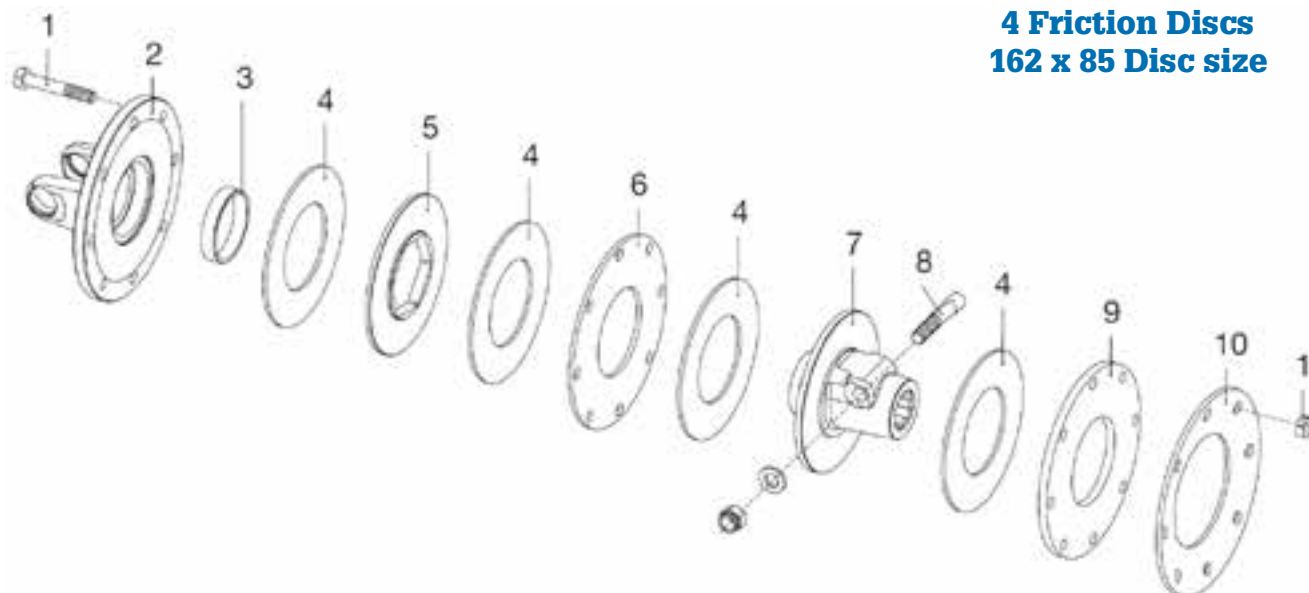


REFERENCE	CODE	DESCRIPTION	NOTES
Complete Clutch	661L53403	1 3/4" Z6	Cross size: 34.9 x 93.5
1	432000008	Bolt and nut	M10 x 60 mm
2	2530D8701	Flange yoke	Cross size: 27.0 x 74.6
	253058701		Cross size: 30.2 x 79.4
	253069001		Cross size: 30.2 x 91.4
	253078702		Cross size: 34.9 x 93.5
3	258005320	Bushing	
4	247006351	Friction disc	D = 162 ; d = 85 mm
5	515870305	Hub with taper pin	1 3/8" Z6
	515873705		1 3/8" Z21
	515870405		1 3/4" Z6
	515873805		1 3/4" Z20
6	408000047	Taper pin	1 3/8" Z6 - Z21
	408000046		1 3/4" Z6 - Z20
7	248870007	Inner plate	T = 8 mm
8	367009870	Belleville spring	T = 4.25 mm



# FRICTION CLUTCH: FV44

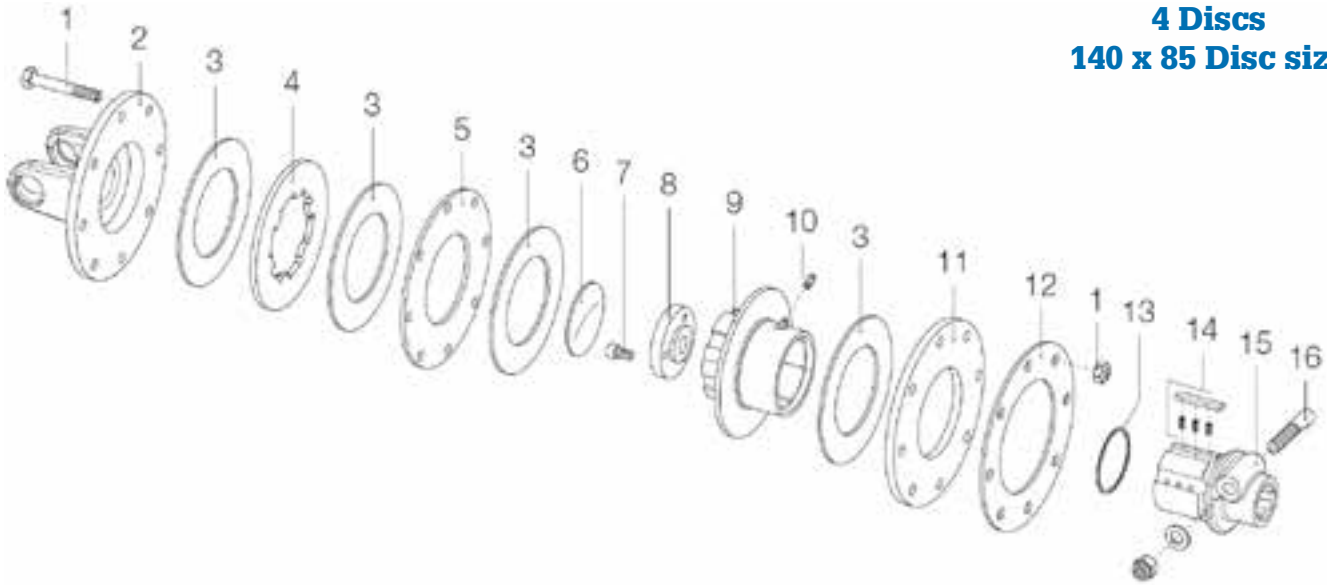
**202mm Diameter  
4 Friction Discs  
162 x 85 Disc size**



REFERENCE	CODE	DESCRIPTION	NOTES
Complete Clutch	661N62538	Complete Clutch	Cross size: 42.0 x 107.5
1	432000114	Bolt and nut	M10 x 75 mm
2	253078702	Flange yoke	Cross size: 34.9 x 93.5
	253089001		Cross size: 34.9 x 106.0
	253108705		Cross size: 41.0 x 118.0
	2530N9001		Cross size: 42.0 x 107.5
	2530S1F01		Cross size: 42.0 x 130.0
3	258005320	Bushing	
4	247006351	Friction disc	D = 162 ; d = 85 mm
5	248737702	Drive plate	
6	248870011	Inner plate	T = 4 mm
7	515900305	Hub with taper pin	1 3/8" Z6
	515903705		1 3/8" Z21
	515900405		1 3/4" Z6
	515903805		1 3/4" Z20
8	408000047	Taper pin	1 3/8" Z6 - Z21
	408000046		1 3/4" Z6 - Z20
9	248870007	Inner plate	T = 8 mm
10	367009870	Belleville spring	T = 4.25 mm

# FRICION & OVERRUN CLUTCH: FNV34

**180mm Diameter  
4 Discs  
140 x 85 Disc size**



REFERENCE	CODE	DESCRIPTION	NOTES
Complete Clutch	665G3103	Complete Clutch	Cross size: 30.2 x 79.4
1	432000114	Bolt	M 10 x 75 mm
2	2530G1L01	Flange yoke	Cross size: 30.2 x 79.4
	2530H1L01		Cross size: 30.2 x 91.4
	2530L1L01		Cross size: 34.9 x 93.5
	2530M1L01		Cross size: 34.9 x 106.0
3	247000054	Friction lining	D = 140 ; d = 85 mm
4	2481L0003	Driving plate	
5	2481L0001	Inner plate	T = 4 mm
6	240000737	Locking plate	
7	303008001	Screw	M8 x 16
8	240000736	Clutch plug	
9	4271L0101	Overrun housing	
10	348017000	Grease fitting	
11	2481L0005	Pressure plate	T = 8 mm
12	367008860	Belleville spring	1200 Nm
13	339002060	Snap ring	
14	4211L0001	Pawl + springs kit	
15	5151L0301	Hub with taper pin	1 3/8" Z6
	5151L3701		1 3/8" Z21
16	408000047	Taper pin	1 3/8" Z6 - Z21

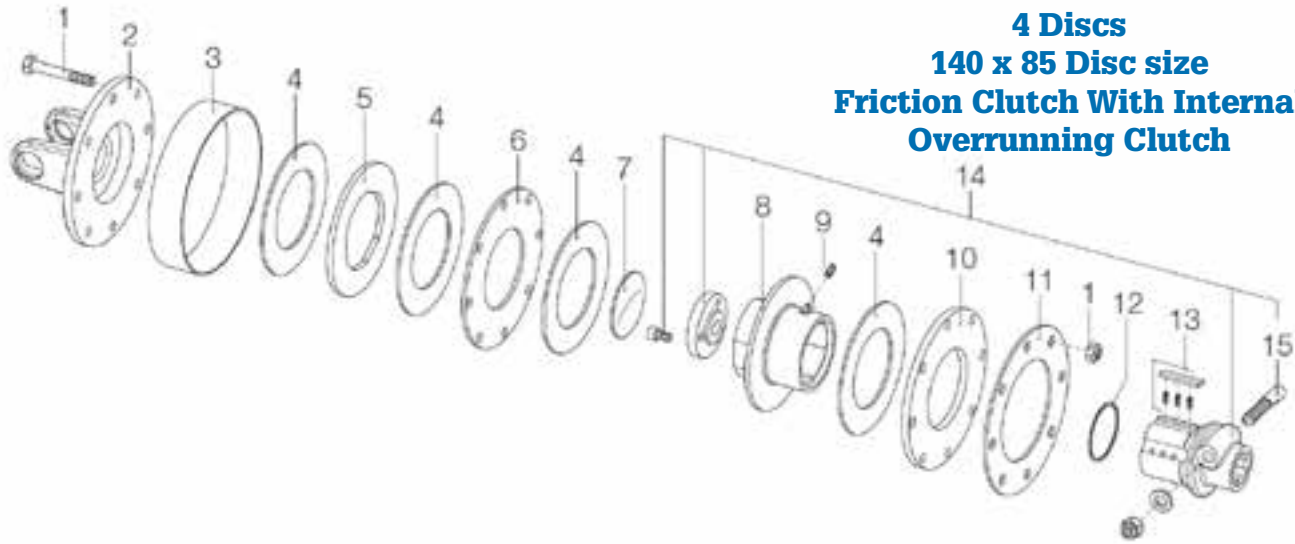
# FRICION & OVERRUN CLUTCH: FNT34

180mmDiameter

4 Discs

140 x 85 Disc size

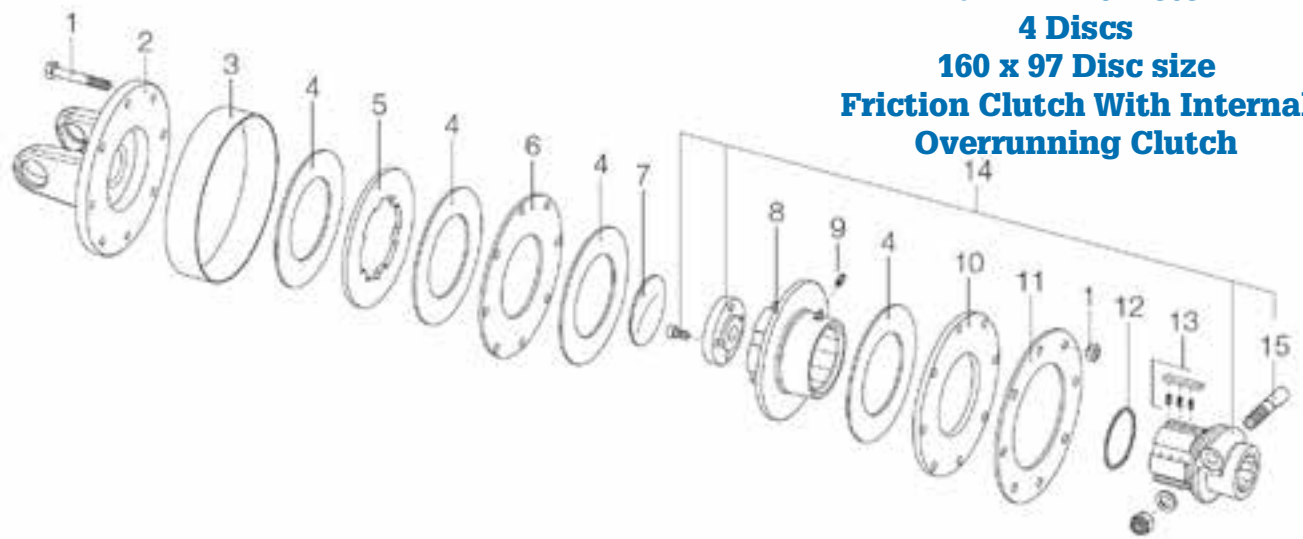
Friction Clutch With Internal  
Overrunning Clutch



REFERENCE	CODE	DESCRIPTION	NOTES
Complete Clutch	658G48103		1 3/8" Z6
	658H53103		1 3/8" Z6
1	432000100	Bolt	M10 x 65mm
2	2530G1LO1	Flange yoke	Cross size: 30.2 x 79.4
	2350H1L01		Cross size: 30.2 x 91.4
	2530L1L01		Cross size: 35.0 x 93.5
	2530M1L01		Cross size: 35.0 x 106.0
3	240000218	Adjustment band	
4	247000054	Friction disc	140mm x 85mm
5	2481L0003	Driving plate	
6	2481L0001	Inner plate	4mm
7	240000746	Locking plate	
8	4271L0101	Housing	
9	348017000	Grease fitting	
10	2481L0002	Pressure plate	8mm
11	367FT340A	Spring	1200Nm
	367FT340C		1450Nm
	367FT340D		1800Nm
12	339002060	Snap ring	
13	4211L0001	Pawl and springs	
14	5151L0351	Hub with taper pin	1 3/8" Z6
	5151L3751		1 3/8" Z6
15	408000047	Taper pin	

# FRICION & OVERRUN CLUTCH: FNT44

**202mm Diameter  
4 Discs  
160 x 97 Disc size  
Friction Clutch With Internal  
Overrunning Clutch**

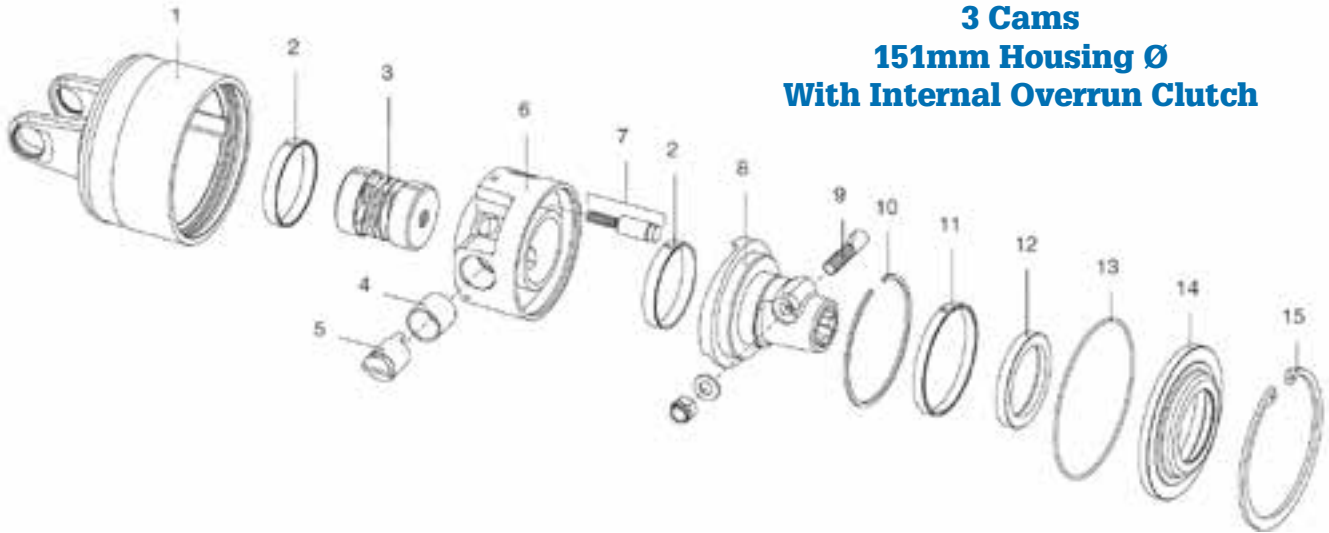


REFERENCE	CODE	DESCRIPTION	NOTES
1	432000100	Bolt	M10 x 70mm
2	2530L1M01	Flange yoke	Cross size: 35.0 x 93.5
	2350M1M01		Cross size: 35.0 x 106.0
3	240000219	Adjustment band	
4	247000061	Friction disc	160mm x 97mm
5	2481M0001	Driving plate	
6	2481M0002	Inner plate	4mm
7	240000748	Locking plate	
8	4271M0101	Housing	
9	348017000	Grease fitting	
10	2481H0003	Pressure plate	8mm
11	367FT440A	Spring	1800Nm
	367FT440C		1800Nm
12	339002060	Snap ring	
13	4211L0001	Pawl and springs	
14	5151M0351	Hub with taper pin	1 3/8" Z6
	5151M3751		1 3/8" Z21
	5151M0451		1 3/4" Z6
	5151M3851		1 3/4" Z20
15	408000047	Taper pin	1 3/8" Z6 - Z21
	408000046		1 3/2" Z6 - Z20



# CAM & OVERRUN CLUTCH: LR23-OR

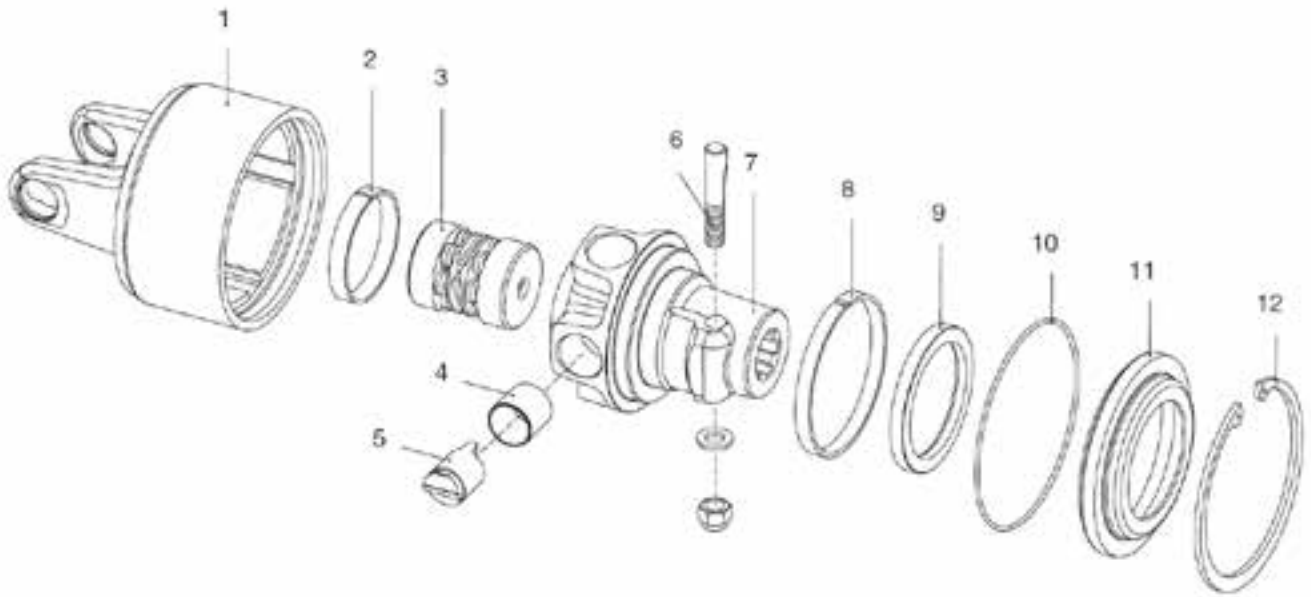
**Automatic Torque Limiter**  
**3 Cams**  
**151mm Housing Ø**  
**With Internal Overrun Clutch**



REFERENCE	CODE	DESCRIPTION	NOTES
1	4310E8151	Housing	Cross size: 27.0 x 74.6
	4310G1152		Cross size: 30.2 x 79.4
	4310G1152		Cross size: 30.2 x 79.4
	431061106		Cross size: 30.2 x 91.4
2	240000205	Bushing	
3	421154801	Spring kit	1200 Nm
	421155401		1500 Nm
	421155701		1700 Nm
	421155901		1900 Nm
	421156101		2100 Nm
4	258000100	Sleeve	
5	250000101	Cam	
6	234150003	Hub + Housing	
7	421004601	Ratchet + spring	
8	515150303	Hub with taper pin	1 3/8" Z6
	515153703		1 3/8" Z21
9	408000048	Taper pin	1 3/8" Z6 - Z21
10	339115000	Circlip	
11	240000207	Bushing	
12	355008065	Sealing ring	
13	358000006	O-ring	
14	240000206	Cover ring	
15	338000138	Circlip	

# CAM CLUTCH: LR23

Automatic Torque Limiter  
3 Cams  
151mm Housing Ø



REFERENCE	CODE	DESCRIPTION	NOTES
Complete Clutch	6WG159003	Complete Clutch	Cross size: 30.2 x 79.4
1	4310E1151	Housing	Cross size: 27.0 x 74.6
	4310G1151		Cross size: 30.2 x 79.4
	431061151		Cross size: 30.2 x 91.4
2	240000205	Bushing	
3	421154801	Spring kit	1200 Nm
	421155401		1500 Nm
	421155701		1700 Nm
	421155901		1900 Nm
	421156101		2100 Nm
4	258000100	Sleeve	
5	250000101	Cam	
6	408000047	Taper pin	
7	515150301	Hub with taper pin	
	515153701		1 3/8" Z6
8	240000201	Bushing	1 3/8" Z21
9	355006080	Sealing ring	1 3/8" Z6 - Z21
10	358000006	O-ring	
11	240000202	Cover ring	
12	338000138	Circlip	

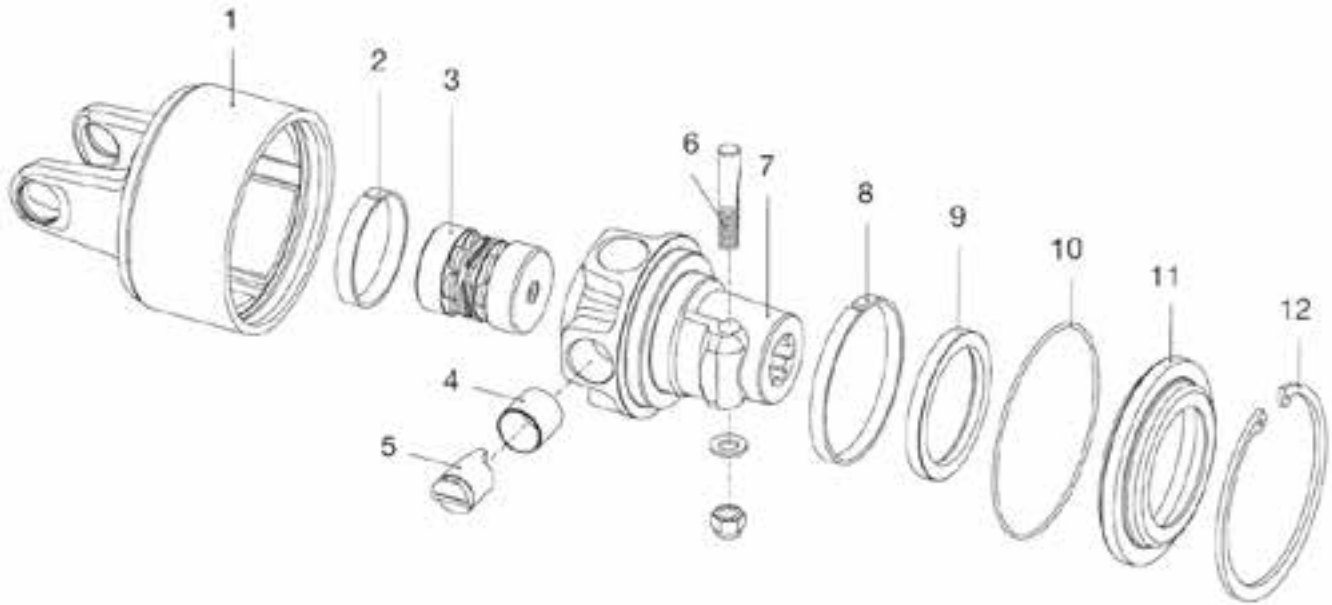
CLUTCHES

CAM CLUTCH: LR23



# CAM CLUTCH: LR24

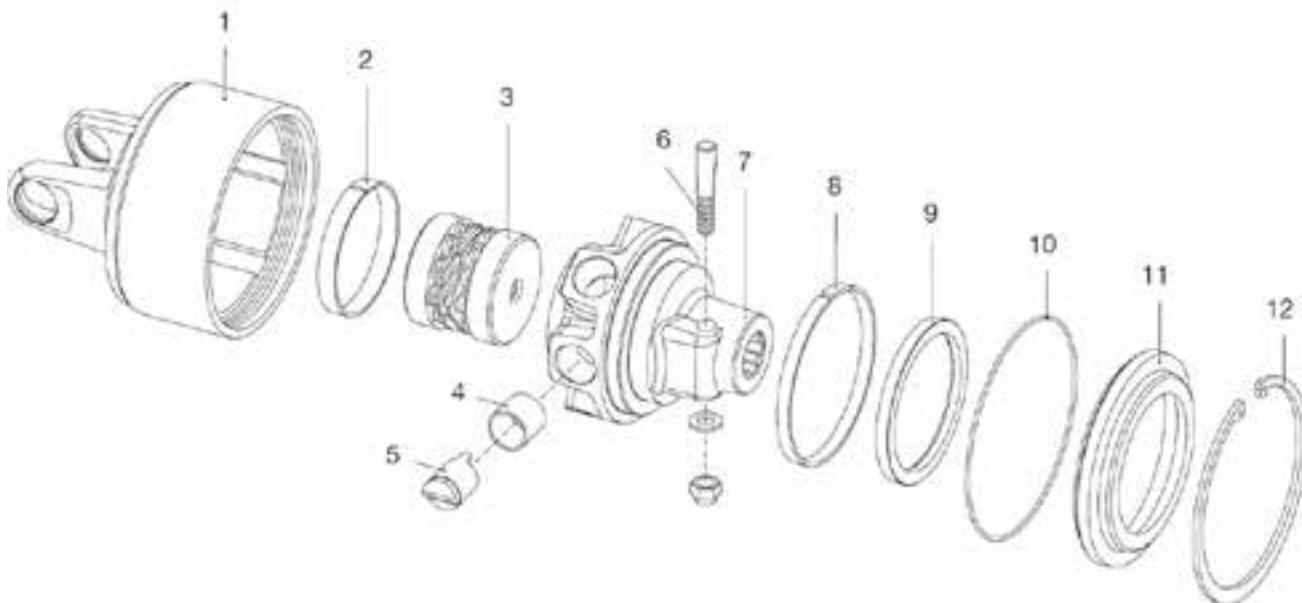
Automatic Torque Limiter  
4 Cams  
151mm Housing Ø



REFERENCE	CODE	DESCRIPTION	NOTES
Complete Clutch	6WL265003	Complete Clutch	Cross size: 34.9 x 93.5
1	4310G2152	Housing	Cross size: 30.2 x 79.4
	431062152		Cross size: 30.2 x 91.4
	4310L2152		Cross size: 34.9 x 93.5
	431082152		Cross size: 34.9 x 106.0
2	240000205	Bushing	
3	421166502	Spring Kit	2500 Nm
	421166601		2600 Nm
	421166902		2900 Nm
	421167001		3000 Nm
4	258000100	Sleeve	
5	250000108	Cam	
6	408000047	Taper pin	1 3/8" Z6 - Z21
	408000052		1 3/4" Z6 - Z20
7	515160301	Hub with taper pin	1 3/8" Z6
	515163701		1 3/8" Z21
	515160401		1 3/4" Z6
	515163801		1 3/4" Z20
8	240000201	Bushing	
9	355006080	Sealing ring	
10	358000006	O-ring	139 x 2.6 mm
11	240000202	Cover ring	
12	338000138	Circlip	

# CAM CLUTCH: LR35

Automatic Torque Limiter  
5 Cams  
176mm Housing Ø



REFERENCE	CODE	DESCRIPTION	NOTES
Complete Clutch	6WL481003	Complete Clutch	Cross size: 34.9 x 93.5
1	4310L4152	Housing	Cross size: 34.9 x 93.5
	431084151		Cross size: 34.9 x 106.0
	431104151		Cross size: 41.0 x 118.0
	4310N4152		Cross size: 42.0 x 107.5
	4310S4151		Cross size: 42.0 x 130.0
2	240000711	Plastic Bushing	
3	421186701	Spring kit	2700 Nm
	421187001		3000 Nm
	421188101		3500 Nm
	421188801		4100 Nm
	421188001		4500 Nm
4	258000100	Sleeve	
5	250000101	Cam	
6	408000047	Taper Pin	1 3/8" Z6 - Z21
	408000052		1 3/4" Z6 - Z20
7	515180301	Hub with taper pin	1 3/8" Z6
	515183701		1 3/8" Z21
	515180401		1 3/4" Z6
	515183801		1 3/4" Z20
8	240000712	Bushing	
9	355000105	Sealing ring	105 x 125 x 10 mm
10	358000007	O-ring	64.7 x 2.6 mm
11	240000710	Cover ring	
12	338000162	Circlip	



# NEED YOUR CLUTCH

## TESTED? BONDIOLI & PAVESI COMPUTERISED CAM CLUTCH TESTING



We now have the ability to test your Bondioli & Pavesi Safety Clutch...  
**CAM CLUTCH , FRICTION CLUTCH & RATCHET TORQUE LIMITERS.**

- Up to 5000NM capacity
- We recommend you send your cam clutches to us every 12 months for preventative maintenance. we will check for signs of wear and will test clutch to ensure it is working to the correct NM setting.
- Torque limiters should be kept in good working order to minimise downtime during busy seasons. Servicing it will help reduce further costs due to breakage because of the clutch not working properly.



**ENQUIRE NOW FOR FURTHER DETAILS**



Power Harrow Tines

72



Rotary Hoe Blades

74



Spikes

78



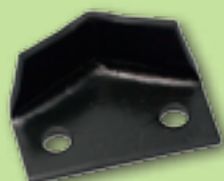
Straight Blades

78



Large Rotor Protectors

79



Small Rotor Protectors

79



Fastening Bolts

80



# POWER HARROW TINES

CELLI

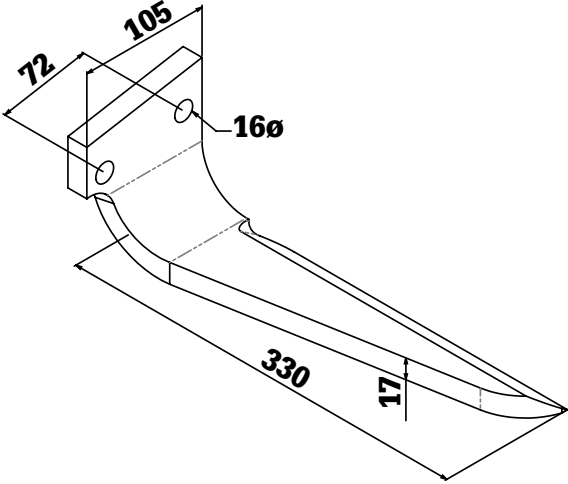
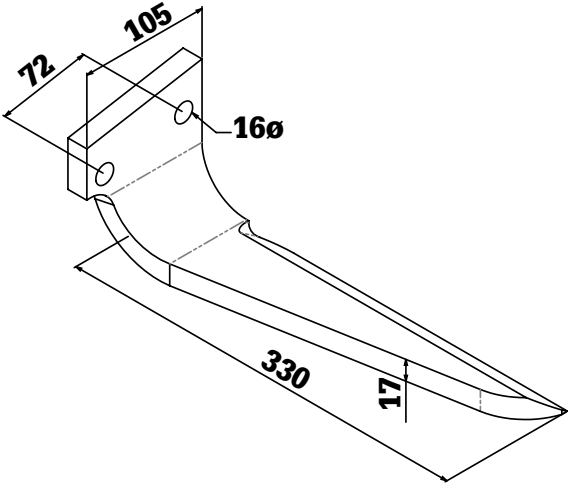
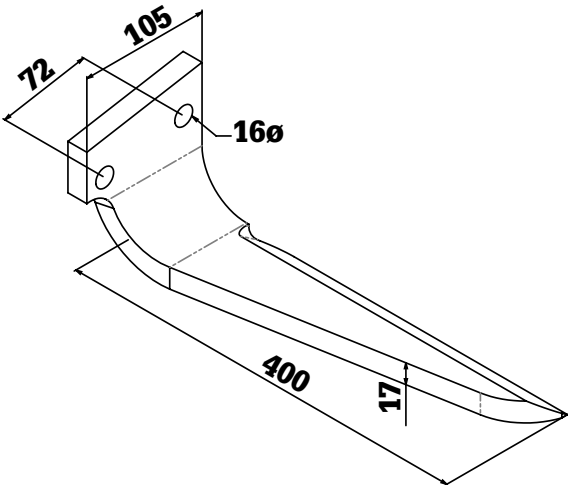
PART NUMBER	SIZE	SUITS MODLES	BOLTS TO SUIT
622732 (LH)		DR GO Series Super GO Agile	014296
622733 (RH)			see page 80
622715 (LH)		ER ER/P Ranger Ranger/P	014296 (with nut)
622716 (RH)			014471 (without nut) For machines after year 2010
622604 (LH)		KR, KR/P Laser Energy Energy/P	014296 (with nut)
622603 (RH)			014471 - with 663037 rotor protector
			014221 - with 661746 rotor protector
			see page 80

POWER HARROW TINES





# POWER HARROW TINES

PART NUMBER	SIZE	SUITS MODLES	BOLTS TO SUIT
622613 (LH)		Maxi Maxi P	014416 (with nut) Older version Also with 2015 version with threaded rotor protectors.  014389 (for versions without nuts)  see page 80
622614 (RH)			
622623 (LH)		Maxi Maxi P  <b>Tungsten Coated</b>	014416 (with nut) Older version Also with 2015 version with threaded rotor protectors.  014389 (for versions without nuts)  see page 80
622624 (RH)			
622645 (LH)		Maxi Maxi P  <b>Extra Long Potato Tine</b>	014416 (with nut) Older version Also with 2015 version with threaded rotor protectors.  014389 (for versions without nuts)  see page 80
622644 (RH)			

# ROTARY HOE BLADES

CELLI

PART NUMBER	SIZE	SUITS MODLES	BOLTS TO SUIT
531512 (LH)		AG Start	014146  see page 80
531511 (RH)		<b>C Blade</b>	
522601 (LH)		FBA BA	014146  see page 80
522600 (RH)		<b>C Blade</b>	
522603 (LH)		FBA BA	014146  see page 80
522602 (RH)		<b>L Blade</b>	
331527 (LH)		Alpha C CE	014004  see page 80
331526 (RH)		<b>L Blade</b>	

ROTARY HOE BLADES



# ROTARY HOE BLADES

PART NUMBER	SIZE	SUITS MODLES	BOLTS TO SUIT
331529 (LH)		Alpha CE	014004 see page 80
331528 (RH)		<b>C Blade</b>	
422513 (LH)		B Ergon E DE	014004 see page 80
422512 (RH)		<b>L Blade</b>	
422515 (LH)		B Ergon E DE	014004 see page 80
422514 (RH)		<b>C Blade</b>	
722534 (LH)		Pioneer Tiger K GT	014004 (8.8 grade) 014402 (10.9 grade)
722533 (RH)		<b>L Blade</b>	see page 80

# ROTARY HOE BLADES

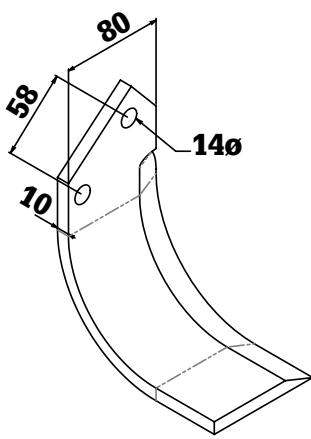
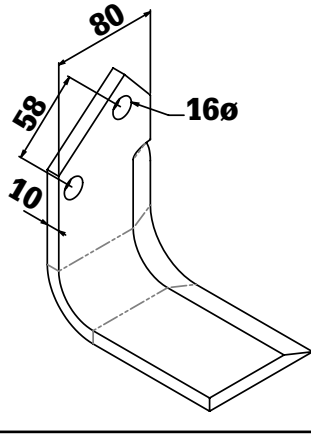
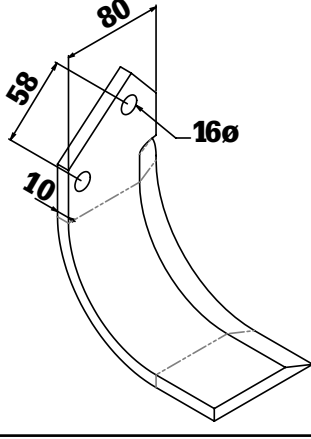
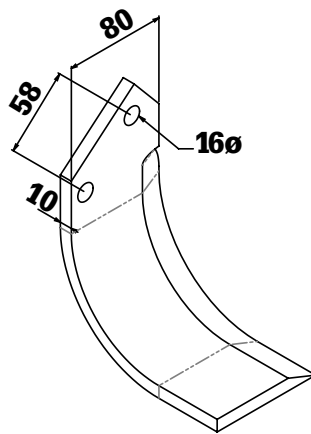
CELLI

ROTARY HOE BLADES

PART NUMBER	SIZE	SUITS MODLES	BOLTS TO SUIT
722538 (LH)		Pioneer Tiger K GT	014004 (8.8 grade)
722537 (RH)		<b>C Blade</b>	014402 (10.9 grade)  see page 80
722548 (LH)		Pioneer Tiger K GT	014004 (8.8 grade)
722547 (RH)		<b>L Blade</b>	014402 (10.9 grade)  014395 For machines with double flanges (Longer Bolt)
722598 (LH)		Pioneer Tiger K GT	014004 (8.8 grade)
722597 (RH)		<b>L Blade</b>  <b>Tungsten Coated</b>	014402 (10.9 grade)  014395 For machines with double flanges (Longer Bolt)
722558 (LH)		Pioneer Tiger K GT	014004 (8.8 grade)
722557 (RH)		<b>C Blade</b>	014402 (10.9 grade)  014395 For machines with double flanges (Longer Bolt)



# ROTARY HOE BLADES

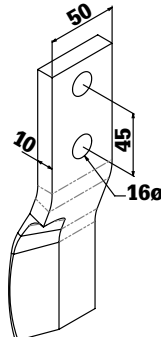
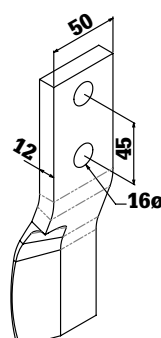
PART NUMBER	SIZE	SUITS MODLES	BOLTS TO SUIT
722578 (LH)		Pioneer Tiger K GT	014004 (8.8 grade)  014402 (10.9 grade)
722577 (RH)		<b>C Blade</b>  <b>Tungsten Coated</b>	014395 For machines with double flanges (Longer Bolt)
722561 (LH)		Machines with 16mm bolt holes.	014389  see page 80
722560 (RH)		<b>L Blade</b>	
722563 (LH)		Machines with 16mm bolt holes.	014389  see page 80
722562 (RH)		<b>C Blade</b>	
722588 (LH)		Machines with 16mm bolt holes.	014389  see page 80
722589 (RH)		<b>C Blade</b>  <b>Tungsten Coated</b>	

# SPIKES

PART NUMBER	SIZE	SUITS MODLES	BOLTS TO SUIT
422538		Pioneer Tiger Ergon  Size: 30x30x170mm	014311-P  see page 80
422539		Pioneer Tiger  Size: 30x30x203mm	014311-P  see page 80
422547		Pioneer Tiger Size: 30x30x203mm <b>Tungsten Dipped</b>	014311-P  see page 80

**\*Please note only 422538 is to be fitted to ERGON Spikes Rotors. Fitting longer spikes to ERGON can cause transmission damage.**

# STRAIGHT BLADES

PART NUMBER	SIZE	SUITS MODLES	BOLTS TO SUIT
422531 (LH)		All Frangor rotors	014261
422530 (RH)		10mm Option	
422631 (LH)		All Frangor rotors	014261
422630 (RH)		12mm Option	



# ROTOR PROTECTORS

PART NUMBER	SIZE	SUITS
663037		Late model RANGER and ENERGY Machines after year 2010 with round rotor heads.
661746		RANGER and ENERGY Machines before year 2010 with rectangular rotor heads
622717		DR ER GO RANGER
622607		KR ENERGY

# BOLTS

ROTARY HOES (SOLD IN PACKS OF 10)		
CODE	SIZE	GRADE
014146-P	M12x35mm	8.8
014004-P	M14x40mm	8.8
014402-P	M14x40mm	10.9
014395-P	M14x55mm	10.9
014389-P	M16x45mm	12.9



POWER HARROWS (SOLD IN PACKS OF 10)		
CODE	SIZE	GRADE
014471-P	M16x40mm	8.8
014261-P	M16x45mm	8.8
014296-P	M16x60mm	8.8
014221-P	M16x65mm	8.8
014416-P	M16x65mm	12.9



SPIKES ROTORS (SOLD INDIVIDUALLY)		
CODE	SIZE	GRADE
014311-P	M10x90mm	12.9



STRAIGHT BLADES (PACKS OF 10)		
CODE	SIZE	GRADE
014261-P	M16x45mm	8.8



**Power Harrow**



**Spikes Rotor**



**Straight Blade Rotor**



**Rotary Hoe**





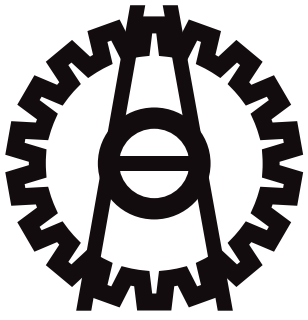
# QUANTITY CHART

ROTARY HOE BLADES																			
MODEL (CM)	85	105	125	130	145	155	165	180	205	230	255	280	305	355	400	450	500	550	600
MODEL (IN)	33"	40"	49"	51"	58"	61"	65"	70"	80"	90"	100"	110"	120"	140"	160"	180"	200"	220"	240"
START	16	20	24																
Ag	16	20	24		28														
FBA		30	36		42		48												
CE		24		30		36		42	48										
B				30		36		42	48										
E						36		42	48	54	60		72						
ERGON						36		42	48	54	60	66	72						
HFF								42	48	66									
K									48	54	60	66	72						
GT											60	66	72	84					
FORMULA													72	84					
PIONEER									48	54	60	66	72		90	102	114		
TIGER											60	66	72	84		102	114	126	140

SPIKES ROTORS									
MACHINE WIDTH	2M	2.3M	2.5M	2.8M	3M	3.5M	4M	5M	6M
	80"	90"	100"	110"	120"	140"	160"	200"	240"
No. Of Spikes	40	45	50	55	60	70	80	100	120

POWER HARROW TINES											
MACHINE WIDTH	1.5M	1.8M	2M	2.3M	2.5M	3M	3.5	4M	5M	6M	7M
No. Of Blades	12	14	16	18	20	24	28	32	40	48	56

FRANGOR STRAIGHT BLADES						
MACHINE WIDTH	2M	2.3M	2.5M	2.8M	3M	3.3M
	80"	90"	100"	110"	120"	130"
No. Of Blades	64	72	80	88	96	104



# BERU<sup>®</sup>

**M A C C H I N E   A G R I C O L E**

**GENUINE PARTS**



Hammer Flails

83



Y Flails

84



Forestry Flails

86



Belts

87



Flail Bolts

88



Bushes & Collars

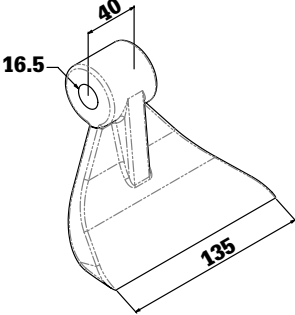
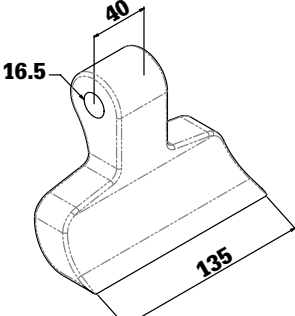
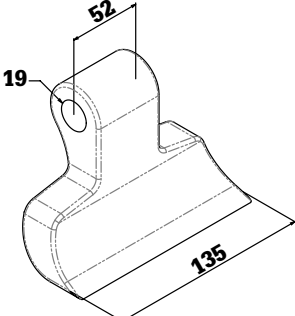
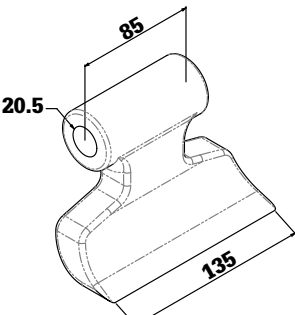
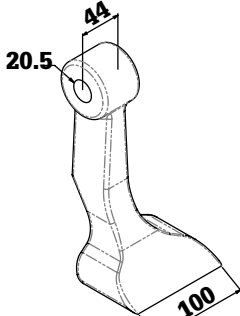
89



Flaps & Chains

90

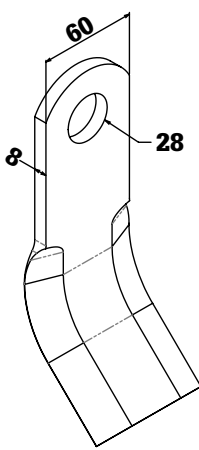
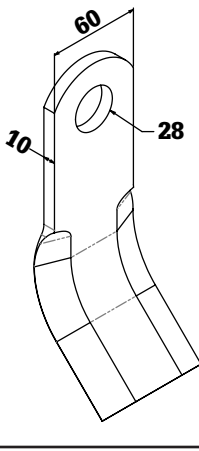
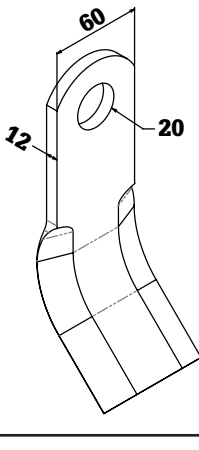
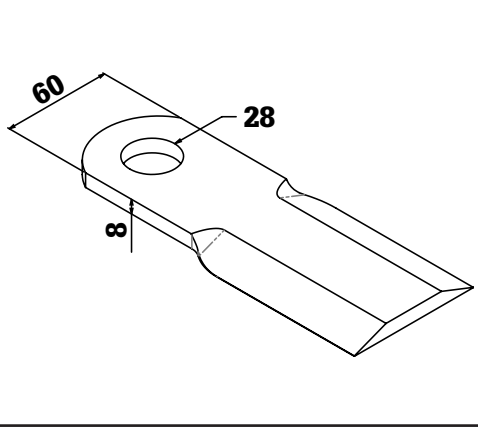
# HAMMER FLAILS

CODE	DIMENSIONS	SUITS MODLES	BOLTS TO SUIT
ML-0007		PARK EKR TA  <b>Light Duty Grass Flail</b>  <b>L Hammer</b>	014.01
MP-0008		Until 2008 for: TFB/Y TFB/R AF AF/SSL TBM TA/P  <b>P Hammer</b>	014.01
MA-3922		From 2008 for: TFB/Y TFB/R TFB/SB TBM EKR TA/P AF  <b>A Hammer</b>	014.50  Square Headed
MP-0794		TBM/S TFH/M TFB/M  <b>Mega Flail</b>	014.80  014.85 From 2014 Square bolt head
MT-3507		TSB Hammer Flail Option  <b>T Hammer</b>	014.90

# Y FLAILS

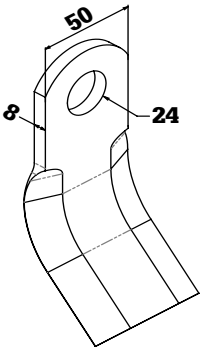
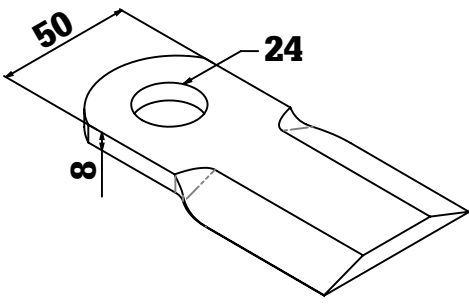
BERTI



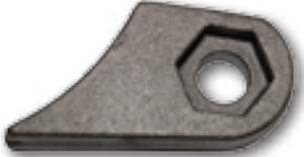

Y FLAILS

CODE	DIMENSIONS	SUITS MODLES	BOLTS TO SUIT
C6008F28		Lighter TSB option <b>8mm thick</b>	014.90 Uses bushes and collars. Refer to page 87.
C6010F28		Standard TSB TSB/P <b>10mm thick</b>	014.90 M20X120 014.60 M20X85 for old models with fabricated lugs Uses bushes and collars. Refer to page 87.
C6012F20		Heavy duty TSB & MRDT <b>12mm thick</b>	014.90 Uses collars. Refer to page 87.
CD6008F28		Use with C6010F28. <b>Centre flail for TSB</b>	014.90 Uses bushes and collars. Refer to page 87.

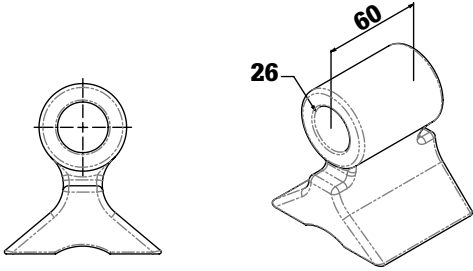
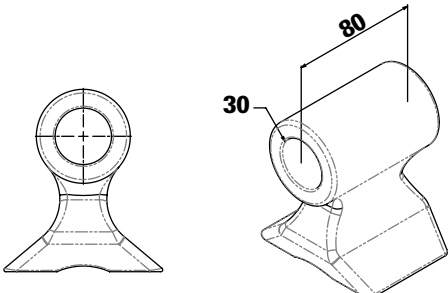
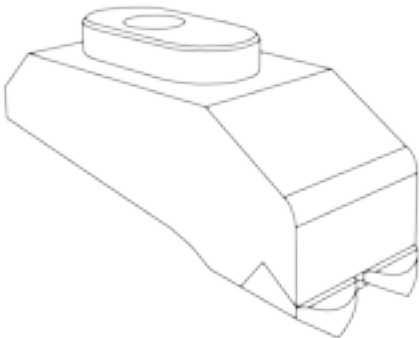


# Y FLAILS & ROTOR LUG PAIRS

CODE	DIMENSIONS	SUITS MODLES	BOLTS TO SUIT
C5008F1838		AF EFR TA TA/p  <b>Y Flail</b>	014.01  Uses bushes and collars. Refer to page 87.
CD2421		AF EFR TA TA/p  <b>Centre Flail</b>  <b>Use with C5008</b>	014.01  Uses bushes and collars. Refer to page 87.







CODE	DIMENSIONS	SUITS MODLES	BOLTS SIZE
SSE24X25 (sold in pairs)		Park AF TBM TFB-Y EKR Before 2008	M16 with 27mm Hex Head
SXF19-3924+ (sold in pairs)		AF TAP TA TBM TFB-Y EKR After 2008	M19 with 27mm Square Head
SME-0816 (sold in pairs)		TBM-S TFH-M TFB-M TSB KING-DT	M20 with 32mm Hex Head
SME-022 (sold in pairs)		TFH-M with 16mm Bolts	M16 with 27mm Hex Head





# FORESTRY FLAILS

CODE	DIMENSIONS	SUITS MODLES	BOLTS TO SUIT
MD-2341		TBM/SB	Flail Rod FTT38025
MD-1950		ECF ECF/SB ECF-MD/SB	Flail Rod FTT38030
DF-004		Fixed tooth  EFX EFX/SB  <b>Tungsten Carbide TIPS</b>	V200701TF109N



# COLLARS & BUSHES

CODE		DIMENSIONS	SUITS
DC011		O.D: 60mm I.D: 28.5mm T: 11mm	C6010F28 Flail Standard TSB Setup
DC008		O.D: 54mm I.D: 28.5mm T: 8mm	C6010F28 Flail With Centre Flail Setup
DC010MRDT		O.D: 54mm I.D: 20.5mm T: 10mm	C6012F20 Flail Does Not Use A Bush
R0264408Z		O.D: 43.7mm I.D: 26.2mm T: 8mm	C5008F1838 Flail With Centre Flail
DC012S		O.D: 50mm I.D: 25.4mm T: 12mm	C5008F1838 Flail Without Centre Flail
R0-4049		O.D: 42.4mm I.D: 25.8mm T: 14mm	C5008F1838 Flail After Year 2008

CODE		DIMENSIONS	SUITS
BC283L40		O.D: 28mm I.D: 20.5mm L: 42mm	Standard Bush For All TSB Flails
BC283L45		O.D: 28mm I.D: 20.5mm L: 45mm	TSB with 45mm Bush
BC-4048		O.D: 25.2mm I.D: 19mm L: 53mm	C5008F1838 Flail With 18mm Bolt after 2008
BC254L40		O.D: 25mm I.D: 16.5mm L: 40mm	C5008F1838 Flail With 16mm Bolt

# BOLTS

CODE		DIMENSIONS	SUITS
014.01		M16X100mm 10.9 grade	For MP-0008 & ML-0007 Flails
014.40		M16X130mm 10.9 grade	For some TFB-SB with extra wide lugs
014.50		M19X115mm 10.9 grade	Square Head bolt for MA-3922 Flail
014.60		M20X85mm 10.9 grade	Suits TSB Before year 2000 with fabricated steel lugs
014.80		M20X160mm 10.9 grade	MP-0794 Flail
014.85		M20x160 10.9 grade	Square Head bolt for MP-0794 2015 onwards
014.90		M20X120mm 10.9 grade	C6010F28 TSB from year 2000 onwards, also MT-3507 Flail

\*All bolts are fine threads and include nyloc nuts








TRACTOR MOUNTED MULCHERS		
MODEL	CODE	QUANTITY
AF	993.16	3
DUAL	993.05	5
ECF	993.10	5
ECF-DT	993.10	10
EFX-DT	993.10	10
EKR 90-160cm	993.16	3
EKR 180-250cm	993.02	4
KING	993.12	8
MINI GARDEN	993.01	3
MRDT	993.30	4
MULTY	993.12	4
PARK	993.16	3
PICKER	993.25	4
TA	993.02	4
TA-P	993.05	4
TBM	993.05	4
TBM-S (540rpm)	993.05	5
TBM-S (1000rpm)	993.25	5
TBM-S (1000rpm)	993.35	5
TFB-Mega	993.05	4
TFB-Y	993.02	4
TFB-REV	993.05	4
TFH-M	993.12	5
TSB	Call Farmgard For Info	
TSB/D320 - 3 belts	993.25	3
TSB/D320 - 4 belts	993.05	4

DIGGER MOUNTED MULCHERS		
MODEL	CODE	QUANTITY
AF-SSL	993.16	4
CKT-SB	993.01	2
ECF-SB	993.12	4
ECF-SB 2000 series	993.12	4
ECF-SB 2000 series	993.10	4
ECF-MD SB	993.12	4
EFX-SB 120cm	993.05	5
EFX-SB 140-160cm	993.12	5
Mini-SB	993.16	2
PARK-SB	993.16	3
RA-SB	993.16	3
TBM-SB	993.02	4
TFB-SB	993.02	4

\*This is only a guide, Belts can differ depending on year of manufacture, subject to changes at any time.

# FLAPS & CHAINS

CODE		SUITS MODLES
PA04-2217Z		Park AF  100x160mm
PA04-2220Z		TA/P TFB/Y  100x200mm
PA04-2223Z		TFB/MEGA  100x260mm

CODE		SUITS MODLES
CGSZ010		TA/P TFB/Y  5 Link
CGSG01006		TFB/MEGA TBM-S TSB ECF  6 Link
DC283L25		Spacer for all chains







# QUANTITY CHART FOR FLAILS

MODEL	40	60	90	100	105	110	115	120	125	135	140	145	160	180	200	220	230	250	270	285	300	320	360	500	600	
AF									10			14	14	16	18											
AF-SSL											12		14	16	18											
CKT-SB		8		14																						
DUAL																20		22			26	28				
ECF												28	32	36	39	39		45								
ECF-DT																		45								
ECF-SB								20			24	28														
ECF-SB 2000								20		24	28															
ECF-MD SB								20		24	28															
EFX-DT															48	54		60								
EFX-SB								30		36	42															
EKR, EKR-S			8		10		10		12	12		14	14	16	18	20										
KING																			64				80			
MINI GARDEN							64		68		80															
MINI-SB	16																									
MRDT															48			60				72				
MULTY															48	52	56	60								
PARK												14	14	16												
PARK-SB			8			10																				
PICKER				8						12		14	16	18												
RA-SB			8				10		12																	
TA														16	18											
TA-P														16	18	20										
TBM												14	16	18	20											
TBM-S														16	18	20		22								
TBM-SB								20		24				28												
TFB-M												14	16	18	20											
TFB-Y			8					10		12		14	16	18	20			22								
TFB-REV														14	16											
TFB-SB								12		12		14														
TFH-M																										
TSB												40	44	48	48	52	56	60	64	68	72	80	88	120	144	
TSB/D320																							80			










GENUINE PARTS














PART NUMBER		CODE	SIZE/SUITS
SHARE POINT (REV)		1659-46-08-09 (RH)	For All XLP Plough Bodies
		1659-46-09-09 (LH)	
SHARE 16"		1659-46-00-09 (RH)	16" Standard for All XLP Plough Bodies
		1659-46-01-09 (LH)	
LANDSIDE		1659-46-04-09 (RH)	For All XLP Plough Bodies
		1659-46-05-09 (LH)	
MOULD SHIN - STEEL BOARDS		1659-45-96-09 (RH)	For All Steel Mouldboards
		1659-45-97-09 (LH)	Used as a Shim Packer with Plastic Boards
XL MOULDBOARD - STEEL		1659-45-94-09 (RH)	For All XLP Plough Bodies
		1659-45-95-09 (LH)	
MOULD SHIN - XLP BOARDS (PLASTIC)		1652-48-01-09 (RH)	For All XL Plough Bodies With Plastic Mouldboard
		1652-48-02-09 (LH)	
XL MOULDBOARD - PLASTIC		1652-48-03-09 (RH)	For All XL Plough Bodies
		1652-48-04-09 (LH)	

**Bolts and nuts are included**

PART NUMBER		CODE	SIZE/SUITS
SUPPORT PLATE (FOR SHARE POINT)		1659-46-12-09 (RH)	Share point mounting plate
		1659-46-13-09 (LH)	
WEARING PLATE		1659-42-89-09	Mounts To Landside On Last Furrow Only
TRASH BOARD/ COVER BOARD		1659-60-64-09 (RH)	Optional For All XLP Plough Bodies
		1659-60-65-09 (LH)	
FIN COULTER		1659-46-22-09 (RH)	Optional For All XLP Plough Bodies
		1659-46-23-09 (LH)	
FLUSH SHARE POINT		1659-62-72-09 (RH)	XL Plough Bodies Use Without Supporting Plate
		1659-62-73-09 (LH)	
MOULDBOARD EXTENTION		1657-49-22-50 (RH)	Optional For All XLP Plough Bodies
		1658-05-59-50 (LH)	
FURROW WIDENING KNIFE		1659-56-78-59 (RH)	For Tractors With Wide Tires
		1659-56-79-59 (LH)	



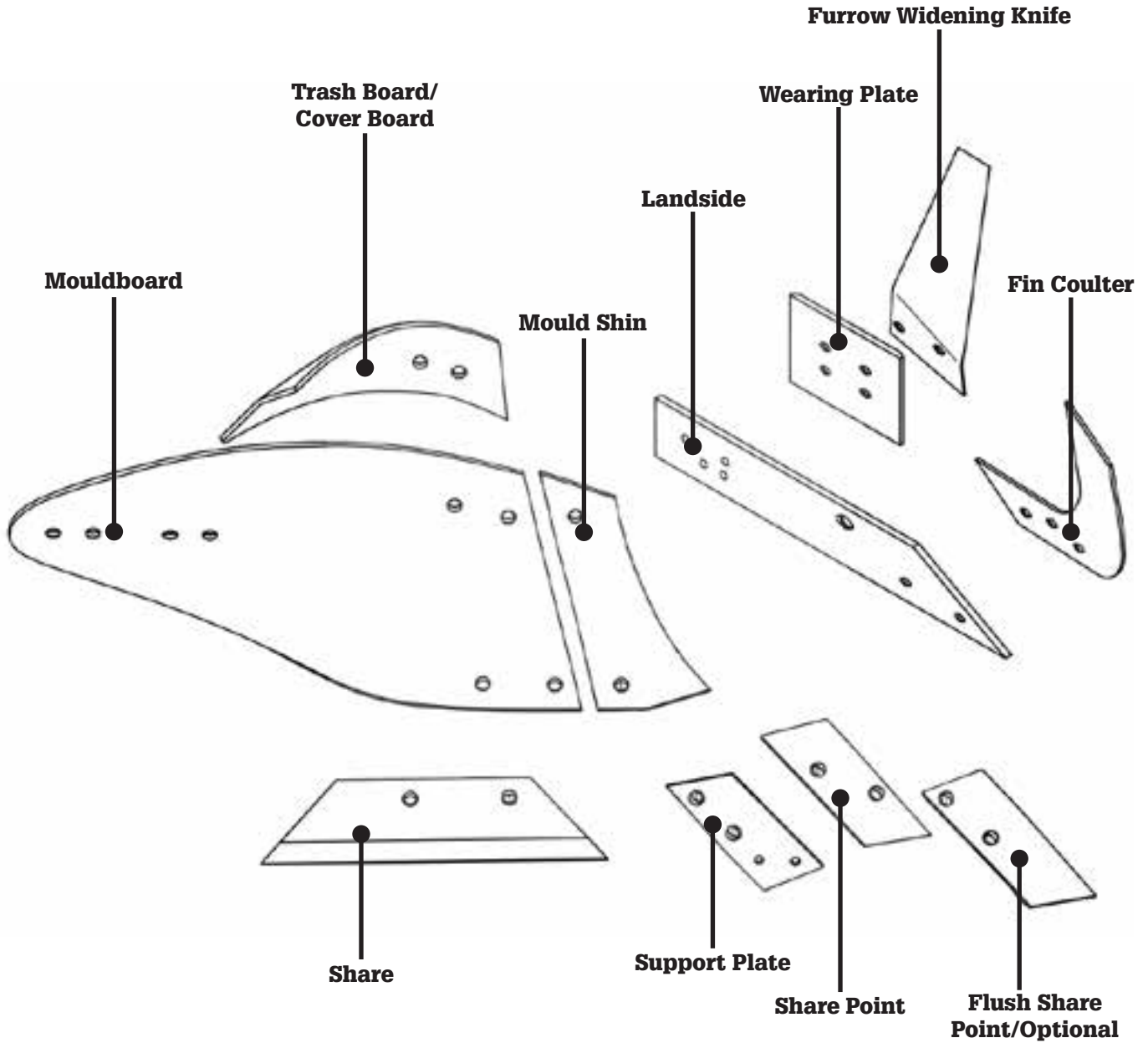
PART NUMBER		CODE	SIZE/SUITS
SKIMMER BOARD - EG TYPE		1659-18-03-09 (RH)	
		1659-18-04-09 (LH)	
SKIMMER POINT - EG TYPE		1659-18-01-09 (RH)	
		1659-18-02-09 (LH)	
SKIMMER BOARD - F TYPE		1659-30-62-00 (RH)	
		1659-30-61-00 (LH)	
SKIMMER POINT - F TYPE		1659-30-55-09 (RH)	
		1659-30-54-09 (LH)	
MOULDBOARD STAY ARM		1659-46-14-00	Suits All XLP Plough Bodies
BOLTS		1650-36-02-21	M12x28
		1650-36-02-22	M12x35
		1650-36-02-23	M12x40
		1650-36-02-24	M12x45

PART NUMBER		CODE	SIZE/SUITS
18" PLAIN DISC		1657-25-47-50	
20" PLAIN DISC		1658-06-63-50	
18" RIPPLED DISC		1658-67-22-00	
20" RIPPLED DISC		1658-06-63-50	
COULTER JOURNAL		1658-66-16-90 (RH)	
		1658-66-17-90 (LH)	
COMPLETE COULTER HUB ASSEMBLY		1657-59-75-91 (RH)	
		1659-22-37-91 (LH)	
COULTER AXLE		1658-10-76-00 (RH)	All Coulter Assemblies
		1658-56-71-00 (LH)	



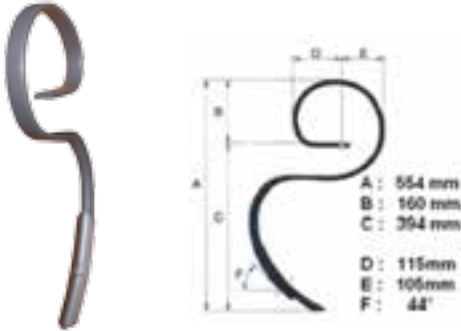
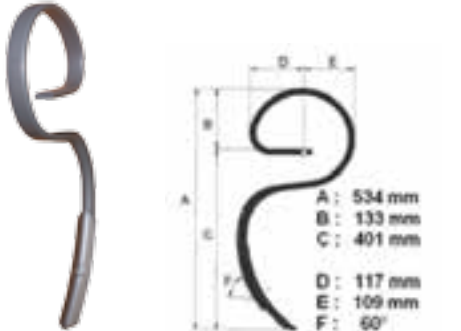

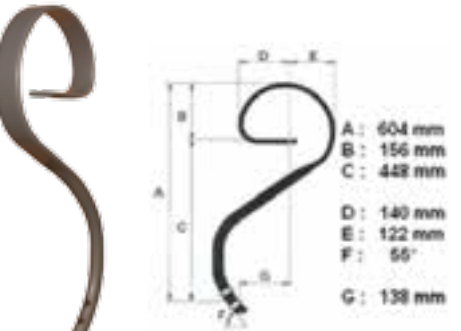








# Standard XL Type Plough Body







# **KONGSKILDE**



PART NAME		PART NUMBER	BAR SIZE
VIBRO S	 <p>Technical drawing dimensions:  A: 554 mm  B: 160 mm  C: 394 mm  D: 115 mm  E: 100 mm  F: 44°</p>	101000669	32 x 10 mm
VIBRO SUPER Q	 <p>Technical drawing dimensions:  A: 534 mm  B: 133 mm  C: 401 mm  D: 117 mm  E: 109 mm  F: 60°</p>	101000740	32 x 12 mm
VIBRO SUPER S	 <p>Technical drawing dimensions:  A: 561 mm  B: 146 mm  C: 415 mm  D: 129 mm  E: 116 mm  F: 60°</p>	101000947	45 x 11 mm
VTM TINE	 <p>Technical drawing dimensions:  A: 604 mm  B: 156 mm  C: 448 mm  D: 140 mm  E: 122 mm  F: 56°  G: 138 mm</p>	101000725	50 x 10 mm
JACKPOT		101151429	32 x 10 mm

PART NAME		PART NUMBER	SIZE
VIBROMASTER POINT		101 000 640	35 x 6 mm
VIBROFLEX POINT		105 000 504	65 x 8 mm
VIBROFLEX POINT - WIDE		105 000 514	110 x 8 mm
GOOSE FOOT POINT		101 000 551	70 x 6 mm
VIBRO SP POINT		101152357	35 x 6 mm



PART NAME		PART NUMBER	SIZE
<b>VIBROFLEX VFM SPRING</b>		105150055	150x12
<b>VIBROFLEX VFM TINE</b>		105150056	50x13
<b>CLAMP</b>		105 000 504	32 x 10 mm Tines
		101 000 742	32 x 12 mm Tines
<b>FINGER TINE</b>		102200065	



**GENUINE DANISH TINES**

**KONGSKILDE**

# FARMGARD

ROBUST MACHINERY THAT WORKS



GENUINE PARTS

CODE		
1489		Pre Ripper Tooth (all Pre-Rippers)
1480		Tooth Pin
1492		Tooth Pin Retainer
1486		Pre Ripper Leg
6612C-8		6' cutting edge (8 Holes)
7612C-9		7' cutting edge (9 Holes)
8612C-10		8' cutting edge (10 Holes)
9612C-11		9' cutting edge (11 Holes)
10612C-12		10' cutting edge (12 Holes)
2110		Cutting edge bolt, nut and washer

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MACHINERY  
*since 1947*

**Slurry Tankers**  
**Muck Spreaders**  
**Side Spreaders**  
**Diet Feeders / Mixer Wagons**  
**Trailing Shoes**



**Mowers**  
**Rakes**  
**Tedders**  
**Forage Harvesters**



**Stone Buriers**



**Muck Spreaders**  
**Fertilizer Spreader**  
**Trailers**



**Discs**  
**Multi-discs**  
**Rippers**  
**Sub-Soilers**



**Precision Seeders**





# FARMGARD

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## CONTACT DETAILS

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PO Box 107-110 Auckland 2150 NZ



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[parts@farmgard.co.nz](mailto:parts@farmgard.co.nz)



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