



GENERAL CATALOGUE



EUROCARDAN
ENERGY ON THE MOVE



CONTENTS

1.	INTRODUCTION	8
1.1	PLUS LINE	8
1.2	CHOICE AND APPLICATION OF THE CARDAN DRIVE	8
2.	IDENTIFICATION OF THE TYPE OF APPLICATION	9
2.1	CARRIED MACHINES	9
2.2	TOWED MACHINES	9
2.3	GROOVED PROFILES	10
2.4	RATED TRANSMISSIBLE POWERS AND TORQUES	15
3.	HOW TO IDENTIFY A CARDAN DRIVE	16
4.	FUNDAMENTALS OF THE UNIVERSAL SHAFT	18
4.1	CRUISES	18
4.2	TELESCOPIC ELEMENTS	18
4.3	EXTREMITY FORKS	19
4.4	SAFETY DEVICES	20
4.5	COMPLETE PROTECTIONS	22
5.	EXTREMITY FORKS	23
	WITH BUTTON	24
	PULL COLLAR	25
	QUICK PIN	26
	CONICAL CLAMP	27
	INTERFERING BOLT	28
	NON-INTERFERING BOLT	29
	RECESS WITH THREADED HOLE	30
	SLOT WITH INTERFERING BOLT	32
	RECESS WITH NON-INTERFERING BOLT	34
	PLUG HOLE	36
	GROOVED	38
	HOMOKINETICS WITH BUTTON	40
	HOMOKINETIC PULL COLLARS	41
	QUICK PIN HOMOKINETICS	42
6.	SAFETY ELEMENTS	43
6.1	FD	44
	2-DISC	44
	COMPONENTS	45
	4-DISC	46
	COMPONENTS	47
6.2	BD	48
	2-DISC	48
	COMPONENTS	49
	4-DISC	50
	COMPONENTS	51
6.3	FT-A	52
	2-DISC	52
	COMPONENTS	53
	4-DISC	54

	COMPONENTS	55
6.4	LN	56
	WITH PAWL	56
	COMPONENTS	57
6.5	LDR	58
	CAM TYPE	58
	COMPONENTS	59
6.6	LDR-K	60
	CAM TYPE	60
	COMPONENTS	61
6.7	LDR-M	64
	CAM TYPE	64
	COMPONENTS	65
6.8	LC	66
	BOLTED	66
	COMPONENTS	67
6.9	RF	68
	BUTTON WITH FREEWHEEL	68
	COMPONENTS	69
	PULL COLLAR WITH FREE WHEEL	70
	COMPONENTS	71
6.10	FR	72
	2 DISC WITH CONICAL CLAMP	72
	COMPONENTS	73
	4 DISC WITH CONICAL CLAMP	74
	COMPONENTS	75
6.11	LCRF	76
	WITH LIMITER AND FREEWHEEL	76
	COMPONENTS	77
7.	SPARE PARTS	79
7.1	CROSSES	80
7.2	TELESCOPIC PARTS	81
	TRILOBATE PROFILE	81
	YORK PROFILE	83
	GROOVED PROFILE	85
7.3	INTERNAL FORKS	86
	TRILOBATE PROFILE	86
	YORK PROFILE	87
	GROOVED PROFILE	88
7.4	HOMOKINETIC INTERNAL FORKS	90
	TRILOBATE PROFILE	90
	YORK PROFILE	91
	DOUBLE	92
7.5	JOINTS FOR TRILOBE PIPES	94
	BUTTON ATTACHMENT	94
	PULL COLLAR ATTACHMENT	96
7.6	YORK PIPE JOINTS	98
	BUTTON ATTACHMENT	98

	PULL COLLAR ATTACHMENT	100
7.7	HOMOKINETIC JOINTS FOR TRILOBE PIPES	102
	PUSH-BUTTON	102
	QUICK PIN	103
7.8	HOMOKINETIC JOINTS FOR YORK PIPES	104
	PULL COLLAR	104
	QUICK PIN	106
7.9	COMPLETE PROTECTIONS PM14	108
	STANDARD-STANDARD	108
	COMPONENTS	109
	HOMOKINETIC-STANDARD	110
	STANDARD-HOMOKINETIC	112
	COMPONENTS	113
	HOMOKINETIC-HOMOKINETIC	114
	COMPONENTS	115
7.10	COMPLETE GUARDS PM57	116
	STANDARD-STANDARD	116
	COMPONENTS	117
	HOMOKINETIC-STANDARD	118
	COMPONENTS	119
	STANDARD-HOMOKINETIC	120
	COMPONENTS	121
	HOMOKINETIC-HOMOKINETIC	122
	COMPONENTS	123
7.11	COMPLETE PROTECTIONS PM80E	124
	STANDARD-STANDARD	124
	COMPONENTS	125
	HOMOKINETIC-STANDARD	126
	COMPONENTS	127
	STANDARD-HOMOKINETIC	128
	COMPONENTS	129
	HOMOKINETIC - HOMOKINETIC	130
	COMPONENTS	131
8.	GENERAL RULES ON USE AND SAFETY	132
8.1	SCHEME AND DESCRIPTION OF THE LABELS	133
8.2	EXTERNAL AND INTERNAL LABEL	134
8.3	FOR THE USA AND CANADA	134
8.4	OPERATION AND MAINTENANCE MANUAL	134
9.	COMMISSIONING	135
10.	CARDAN SHAFT ADJUSTMENT	136
11.	DISASSEMBLY AND ASSEMBLY OF THE UNIVERSAL SHAFT PROTECTION	138
11.1	STANDARD PROTECTION SWABBING	138
11.2	STANDARD PROTECTION ASSEMBLY	139
11.3	HOMOKINETIC GUARD DISASSEMBLY	139
11.4	HOMOKINETIC GUARD ASSEMBLY	140

12.	LUBRICATION AND MAINTENANCE	140
<u>12.1</u>	<u>STANDARD GUARD LUBRICATION</u>	<u>141</u>
<u>12.2</u>	<u>OMOCINETIC GUARD LUBRICATION</u>	<u>142</u>

1. INTRODUCTION

1.1 PLUS LINE

Cardan PLUS transmissions have been designed with the aim of offering a professional, reliable product, designed in compliance with safety standards, easy to install and with minimal and simple maintenance. The PLUS line is intended for use in heavy conditions, when important powers must be transmitted continuously for long periods in a completely reliable manner, without risking costly machine downtime.

All this has been achieved thanks to a design department that makes use of cutting-edge tools as well as the know-how accumulated by Eurocardan in almost half a century of life, a production plant able to guarantee a high quality standard thanks to technologically advanced machinery, an efficient quality control department and a testing laboratory able to extract valuable information from durability and destructive tests.

In recent years, the PLUS range has been further enriched with the addition of sizes 12 and 14 to meet the growing demand in the agricultural sector.

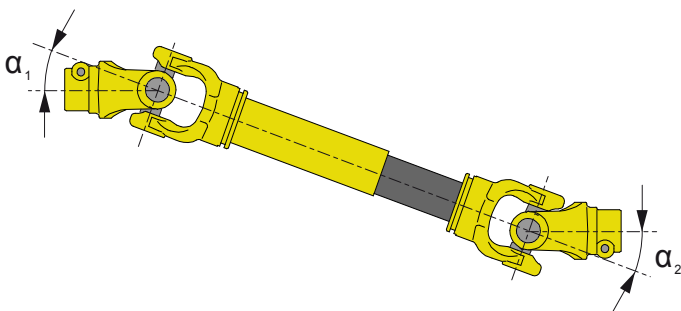
The range of products offered by Eurocardan is very wide and able to satisfy a wide variety of requirements, from those of the hobbyist user to those of the professional user.

This catalogue, relating to the PLUS product line, is intended to guide and accompany the reader in choosing the configuration of the product that best suits the application for which it will be used, helping them to identify the type of transmission and its dimensions that best suit their needs.

1.2 CHOICE AND APPLICATION OF THE CARDAN DRIVE

The cardan joint, named after the Italian mathematician Gerolamo Cardano, has found considerable use in agriculture, especially in recent decades. The cardan drive is generally used where it is necessary to transmit power between two non-aligned shafts and with variable relative distance.

The kinematic study of the universal joint shows that, due to the angle formed by the axes of the connected shafts (fig.1), the instantaneous transmission ratio (understood as the ratio of the instantaneous speeds of the driven and driving forks) is not kept constant, but has a periodic, sinusoidal trend. This in practice means that, even if the speed of the driving fork is uniform, as is almost always the case in agricultural applications, the speed of the driven fork is variable moment by moment, so it is an accelerated motion wheel and generates inertial torques if it is connected to a flywheel mass, with the consequent occurrence of vibrations and noise that are all the wider and more dangerous the greater the angle of the joint.



The cardan drive can be achieved by using a single joint, two joints and up to three joints in the most particular cases.

The single universal joint (the one consisting of two forks and a cross) is used in transmissions between two coplanar shafts at close distance whose axes form a certain angle.

The double universal joint is generally used when the axes are not concurrent but are skewed at a mutual distance such that use of the single joint is not possible.

In the event that the shafts are at a variable distance, double universal joint transmissions are used in which the two joints are connected by telescopic pipes. This is the most versatile and most used configuration for power transmission between tractors and agricultural machinery.

The three-joint transmission is used for even greater distances between shafts and to reduce transmission irregularity.

The objective of this chapter is to guide the customer towards correct identification of the cardan shaft for each specific application.

The choice of the cardan shaft is divided into 3 distinct phases:

1. Identification of the type of application;
2. Identification of the family and size of the tree;
3. Choice of the safety body.

2. IDENTIFICATION OF THE TYPE OF APPLICATION

The first phase of the correct identification of a cardan shaft requires knowledge of the requirements of the machine. Normally, the types of applications are divided into:

1. Carried machines;
2. Towed (or stationary) machines.

2.1 CARRIED MACHINES

In the case of carried machines, i.e. connected by a three-point connection, in the working condition the situation of fig.2 is applicable.

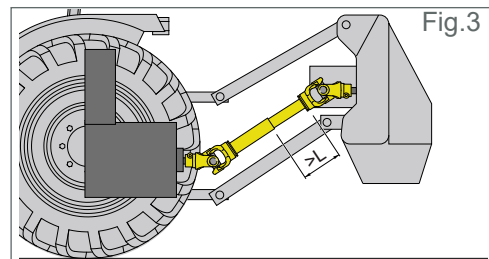
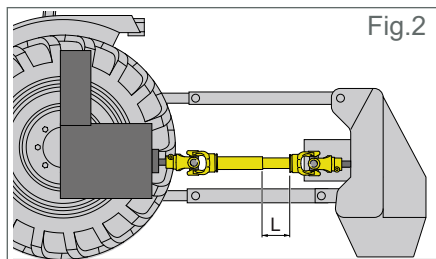
In this condition, the ideal situation is to have the two drive shafts of the tractor and of the machine as parallel and as aligned as possible to promote homogeneity or in any case to limit irregularity of the transmission.

In this position the cardan drive is in its minimum length condition and the angles to the joints are minimal.

In the condition of the lifted machine, however, the situation of fig.3 is valid in which, due to the kinematics of the coupling device, the transmission is at its maximum extension. The angles of the joints also increase and therefore it is necessary to stop the transmission to avoid damage to the cardan shaft.

In sizing the length of the cardan shaft, the conditions of use must be taken into account so that the two half shafts do not reach complete closure and/or instead maintain an adequate overlap of the telescopic pipes. In the event that a specific application requires elongations such as not to guarantee sufficient overlap, it is advisable to use telescopic elements with grooved profiles.

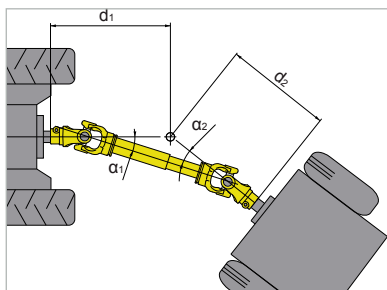
In working conditions, power take-offs (PTOs) should respect the condition of parallelism and alignment as much as possible in order to have modest and equal joint angles as the width of these angles influences the life of the shaft.



2.2 TOWED MACHINES

With towed machines it is generally the case that, when the transmission is straight (Fig.2), it is also at the maximum length while, during steering, the length decreases as the steering angle increases.

During steering, the two transmission joints are angled according to the position of the machine attachment point on the tractor.



In the event that this point is equidistant between the two power take-offs ($d_1 = d_2$ in fig.4) of the tractor and the operating machine, then the two angles α_1 and α_2 are equal and therefore the transmission is defined as homokinetic.

If the attachment point is closer to the tractor or, less frequently, to the operating machine, the two angles α_1 and α_2 are not equal and the joint closest to the attachment point undergoes a greater angle than the other.

A solution to the problem of transmission irregularity at high joint angles is represented by the homokinetic joint.

This joint has the peculiarity of being homokinetic in itself and therefore being able to work at different angles without incurring irregularities. In addition, compared to a normal joint, it can work at much higher joint angles up to 80° (but only for short periods, for example during steering).

The homokinetic joint can replace only one of the joints of a transmission, or both.

As a rule, transmission to a single homokinetic joint is used, on the tractor side (for high α_1 and low α_2 values) or on the machine side (for high α_2 and low α_1 values), when on these the required joint angle is high or in any case the transmission irregularity is to be reduced (fig.5). Note that in this case the overall transmission will not be homokinetic as it will retain the irregularity due to the normal joint. Therefore, the latter should not work at an angle greater than the indicative value of 16° .

In cases where this is not possible, double homokinetic joint transmission is used (fig.6). Note that in this case the overall transmission is always homokinetic regardless of the value of the joint angles.

As already mentioned, the diversity between the two angles means that the irregularity of the transmission is generated with the consequent increase in vibrations and noise.

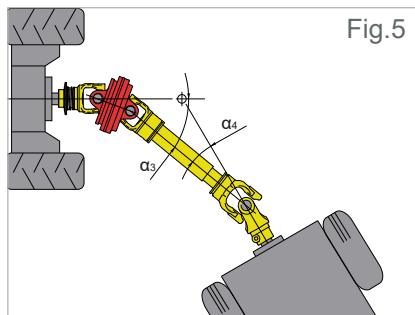


Fig.5

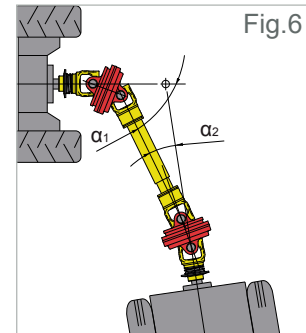


Fig.6

In situations where the point of attachment of towed operating machines is **not equidistant between the two PTOs**, the two angles α_1 and α_2 are not equal so, in calculating the **theoretical average duration of the cardan drive**, it is necessary to use the value **relating to the greatest angle between the two**, i.e. $\alpha_1/2$ in the case of fig.7.

This applies only to **homokinetic double-joint trees** where **the overall transmission is homokinetic**. On the other hand, for gimbal transmissions composed of **a simple joint and a homokinetic joint (fig.8)**, the parameter α that must be used for the **sith of the average theoretical duration** is that relating to the **standard joint if the joint angle is greater than half that of the homokinetic joint** ($\alpha_4 > \alpha_3/2$) or, conversely, **half the joint angle relating to the homokinetic joint**, if it is greater than that relating to the standard joint ($\alpha_3/2 > \alpha_4$).

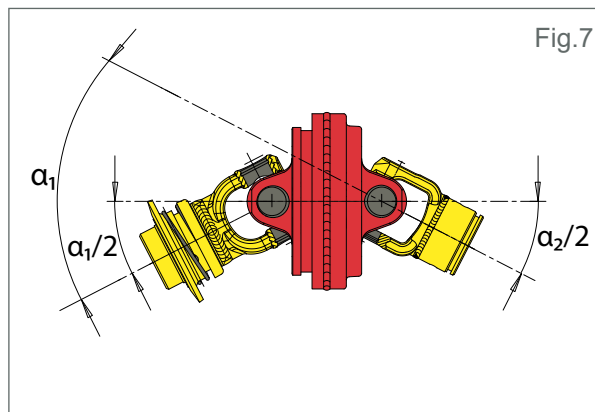


Fig.7

2.3 GROOVED PROFILES

The grooved profiles unified by the ISO 500 standards are as follows:

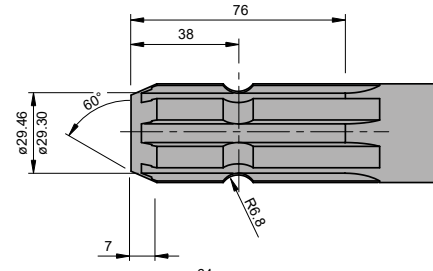
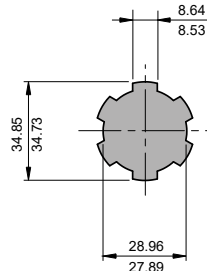
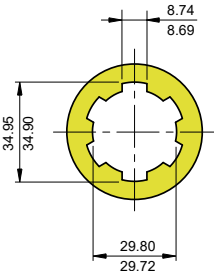
- 1 3/8" z6;
- 1 3/8" z21;
- 1 3/4" z20;
- 2 1/4" z22.

Other profiles are also very popular, namely:

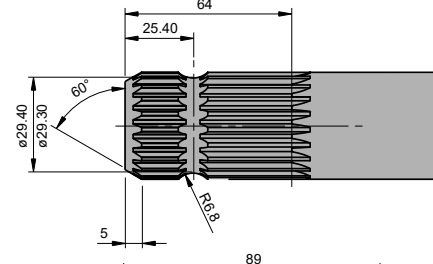
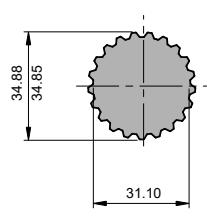
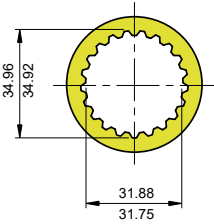
- 1" Z 15;
- 1 1/8" Z 6;
- 1 3/4" Z 6.

For profiles other than those illustrated, contact Eurocardan:

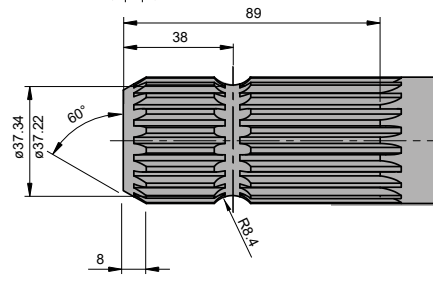
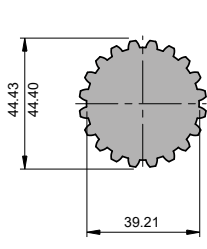
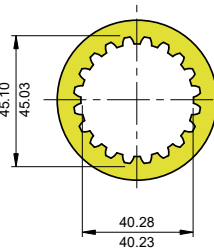
1 3/8" Z6



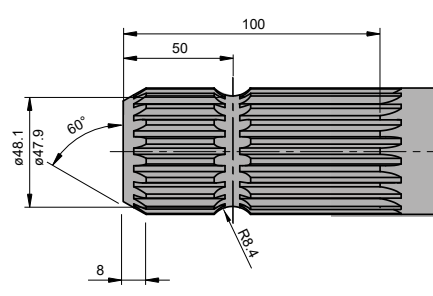
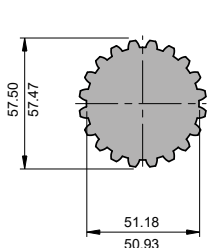
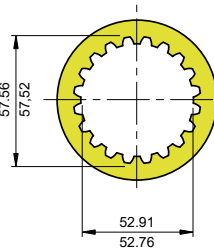
1 3/8" Z21



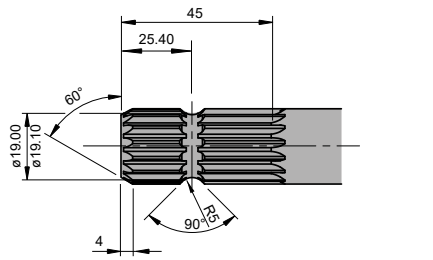
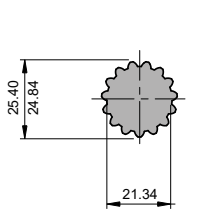
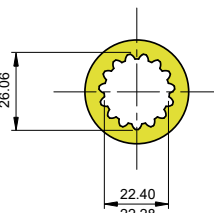
1 3/4" Z20



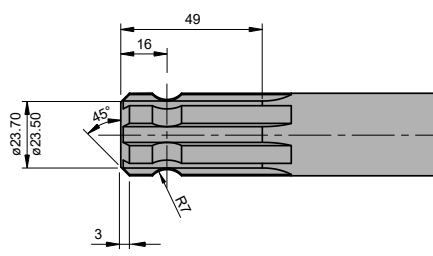
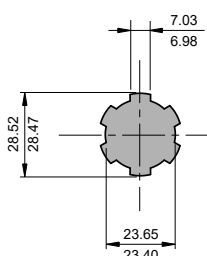
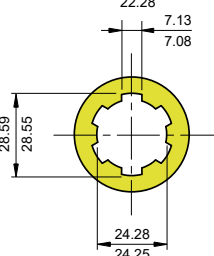
2 1/4" Z22



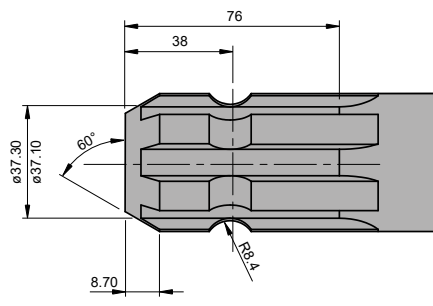
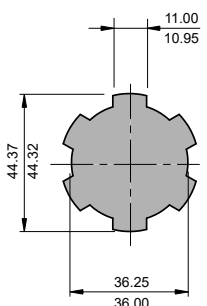
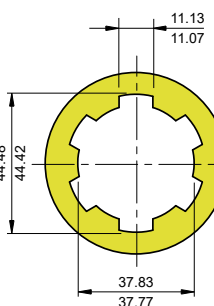
1" Z15



1 1/8" Z6



1 3/4" Z6



STANDARD CARDANS- DRIVE SHAFTS U-JOINTS

Size MASTER Size	Crociera Cross	Serie - Series			
		Outer pipe forks	Inner pipe forks	AXP - MXP	YEP - YFP - YHP
					BXP
2					
4					
5					
6					
7					
8					

10	12	14

HOMOKINETIC CARDANS - DRIVE SHAFTS CV-JOINTS					
Serie - Series					
Size MASTER Size	Crociera Cross	Outer pipe forks	Inner pipe forks	AJP - AKP - AWP	YJP - YKP - YWP YMP - YUP - YYP
2					
4					
6					
8					
10					

2.4 RATED TRANSMISSIBLE POWERS AND TORQUES

Before installing the cardan drive, make sure that the power required by the machine, depending on the rotation speed, is compatible with the nominal value shown in the table. These values refer to use with a transmission angle of 5° and a joint life of 1000 h or with a 10° angle and a life of 500 h.

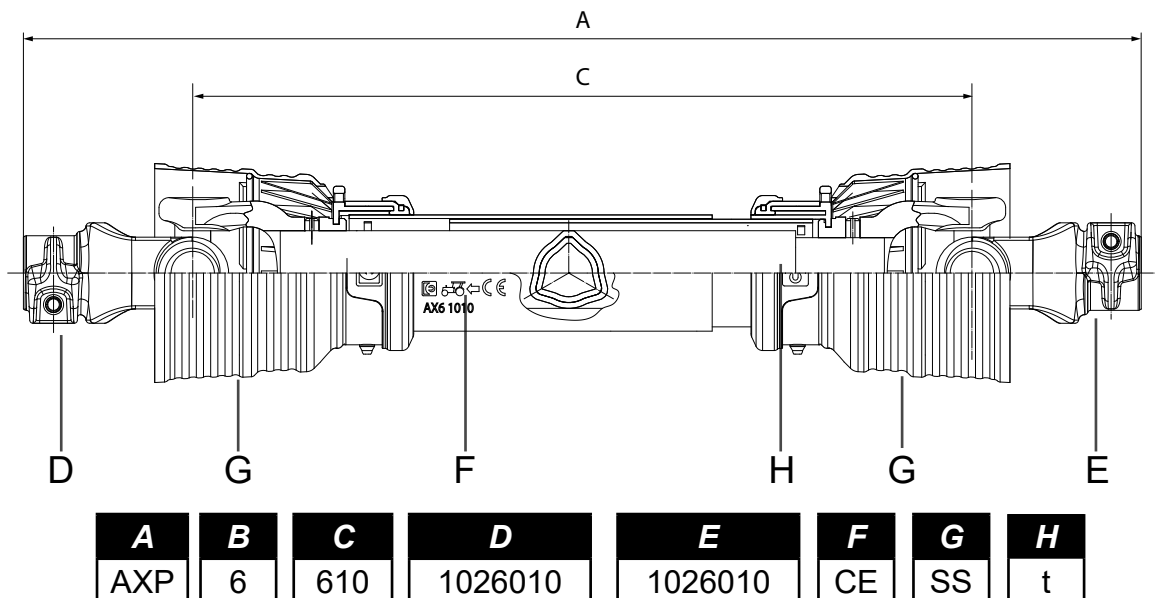
STANDARD CARDANS- DRIVE SHAFTS U-JOINTS							
Size MASTER Size	540 min ⁻¹ (rpm)		1000 min ⁻¹ (rpm)		Cat. ASAE		
	Coppia Torque M [Nm] (lb•in)	Potenza Power P [Kw] (HP-CV)	Coppia Torque M [Nm] (lb•in)	Potenza Power P [Kw] (HP-CV)			
2	270 (2390)	15 (20)	240 (2120)	25 (34)	2R - 1H	-	-
4	500 (4430)	28 (38)	410 (3630)	43 (58)	4R - 3H	4R - 3H	4R - 3H
5	715 (6330)	39 (56)	610 (5400)	63 (86)	4R - 3H	4R - 3H	4R - 3H
6	930 (8230)	53 (72)	780 (6900)	82 (111)	5R - 4H	5R - 4H	5R - 4H
7	1250 (11060)	70 (96)	1050 (9290)	110 (145)	6R - 4H	6R - 4H	6R - 4H
8	1400 (12390)	79 (106)	1170 (10360)	123 (167)	6R - 5H	6R - 5H	6R - 5H
10	1820 (16110)	103 (140)	1530 (13540)	160 (218)	-	8R - 7H	7R - 6H
12	2400 (21240)	136 (184)	1950 (17260)	204 (278)	-	8R - 7H	-
14	3300 (29210)	187 (254)	2680 (23720)	281 (381)	-	8R - 7H	-

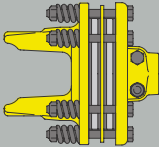
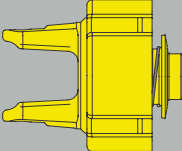
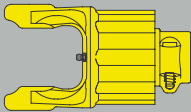
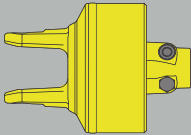
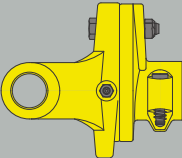
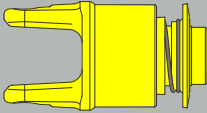
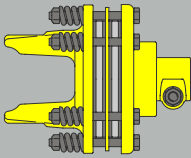
(HOMOKINETIC CARDAN - DRIVE SHAFTS CV-JOINTS)						
Size MASTER Size	540 min ⁻¹ (rpm)		1000 min ⁻¹ (rpm)		Cat. ASAE	
	Coppia Torque M [Nm] (lb•in)	Potenza Power P [Kw] (HP-CV)	Coppia Torque M [Nm] (lb•in)	Potenza Power P [Kw] (HP-CV)		
2	270 (2390)	15 (20)	240 (2120)	25 (34)	2R - 1H	-
4	500 (4430)	28 (38)	410 (3630)	43 (58)	4R - 3H	4R - 3H
6	930 (8230)	53 (72)	780 (6900)	82 (111)	5R - 4H	5R - 4H
8	1400 (12390)	79 (106)	1170 (10360)	123 (167)	6R - 5H	6R - 5H
10	1945 (17215)	110 (150)	1585 (14029)	166 (226)	-	8R - 7H

3. HOW TO IDENTIFY A CARDAN DRIVE

A		B		C	D
SERIES: Identify transmission type.		Size Crosses Standard	Size Crosses Homokinetics	Identify the length Transmission L.	Tractor Side. Identify the tractor side component.
	AXP-AJP AKP-AWP MXP	2	2		
		4	4		
		5	-		
	YEP - YJP YKP - YWP YFP - YHP YMP - YUP YXP	6	6		
		7	-		
		8	8		
		10	10		
	BXP	12	-		
		14	-		

*Viewable from page 23 to page 42



E Machine side. Identify the fork or safety device on the machine side	F Certification transmission	G Hoods configuration tractor side and machine side	H If envisaged, indicate any treatments required on the pipes.
      	CE Transmission with "CE" certification CP Transmission for US and Canada countries with safety chains CU Transmission for USA and Canada countries without safety chains WB Transmission without "CE" certification for non-EU countries E2 Transmission with "CE" certification with stickers for US countries and Canada SP Transmission without protection	Indicate the two letters that respectively define the hood on the tractor side and the hood on the machine side. SS Standard - Standard SC Standard - Short SL Standard - Long LL Long - Long ES Extra short - Standard MC For MX - Short	t Hardened pipes r Rilsan Pipes c Carbonitrided Pipes

*Viewable from page 53 to 78

4. FUNDAMENTALS OF THE UNIVERSAL SHAFT

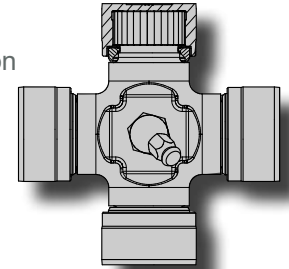
The PLUS line is distinguished from the Master line in the following aspects:

- High-quality cruises: guarantee longer durations and extended lubrication intervals thanks to the use of high-performance materials, the optimisation of geometries and the accuracy of production processes;
- Telescopic tubes with York profile, with large contact surfaces to distribute the forces and tanks for the accumulation of lubricant for a constant and prolonged release. The pipes are hardened to raise the torque transmission capacity and extend the life of the shaft. Other profiles available;
- Moulded steel forks with optimised geometries to contain weight and maximise strength;
- Lubrication with als system - Advanced Lube System, which allows the lubrication of telescopic tubes by acting from the outside without decoupling the semi-joints;
- Graphite plastic protection to increase durability and resistance to sliding.



4.1 CRUISES

They represent the main element of the cardan shaft as they directly contribute to the determination of the duration of a transmission. The rated torque of the cardan shaft is the torque corresponding to the duration of the joint of 1000 hours with a joint angle of 5°, speed 540 rpm; the values of torque and transmittable power are obtained by combining, with appropriate coefficients, those of the crosses and pipes.



The cruises of the Plus line bring together in a single product a combination of features that determine their unparalleled durability and reliability:

- Recessed bearings with geometries designed to obtain the best combination of structural strength and thickness;
- High quality, wear-resistant treated steel rollers machined with precision to ensure a homogeneous distribution of stresses;
- High quality moulded steel cruiser body;
- Sealing system that prevents the entry of material from the outside that could accelerate wear, degrade the quality of the lubricant and at the same time allow the exhausted grease to drain when the new lubricant is pumped;
- Centralised greasing system that allows the lubricant to be distributed evenly over the four bearings.

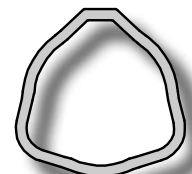
4.2 TELESCOPIC ELEMENTS

The resistance of the pipes is calculated by verifying the maximum torsion that the pipe withstands before reaching yielding, so it is directly connected to the area of the pipe section. The cardan shaft must be chosen so that the torque provided for the application is less than the permissible torsional stress from the pipes.

The telescopic elements allow the shaft to adapt to the variations in distance between the two PTOs, which is why the ability to slide axially under load is essential, generating reduced telescopic pressures and, for this reason, the lubrication of the telescopic elements is essential to moderate wear and to reduce axial pressures.

Eurocardan boasts a wide range of telescopic solutions that allow the transmission of motion in a wide variety of applications:

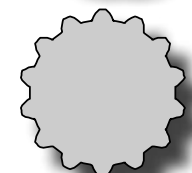
Three-foiled (or triangular) tubes: they represent the solution for standard applications that require a correct balance between torque and axial thrust. Coupling between the two pipes (inner and outer) is permitted in a single phase position.



York tubes: the York profile allows, compared to the standard profile, the use of the transmission in heavier applications characterised by the presence of greater torque peaks. In addition, the special profile with built-in grease ducts allows a better distribution of the lubricant between the outer and inner pipe as well as acting as a grease accumulation to keep the lubricant longer than standard profiles. Coupling between the two pipes (inner and outer) is permitted in a single phase position.



Grooved tubes and shafts: they are used in applications characterised by high torques, significant shaft extensions (greater than those permitted by other tubes) and frequent axial slip.



In addition, to improve the wear resistance and axial sliding characteristics, two treatments are possible on the pipes:

HARDENING: the treatment is carried out only on the inner tube and allows to obtain tubes with greater surface hardness as well as better torsional resistance. Hardened pipes are particularly suitable in highly abrasive environments.

RILSAN: the sanitised pipes allow a 50% reduction in the friction coefficient compared to the contact between two normal metal surfaces and this means being able to significantly reduce the axial pressures. These pipes are particularly suitable in applications that require frequent axial sliding under load, such as in the case of towed machines.

4.3 EXTREMITY FORKS

The end forks are a fundamental part of the cardan shaft used as the main fastening systems between the tractor and the machine, respecting the dimensions established by the ISO 500, DIN 9611 and ANSI/ASABE standards, grouping them into three types:

- **Type 1:** 1 3/8" Z6 (540 rpm);
- **Type 2:** 1 3/8" Z21 (1000 rpm);
- **Type 3:** 1 3/4" Z20 (1000 rpm);
- **Type 4:** 2 1/4" Z22 (1300 rpm).

Usually the gimbal must be left connected to the machine, for this reason the fork on the tool side is of the conical clamp, bolt or double bolt type so all the locks are to be made with tools.

Quick Button	Pull Collar	Quick Pin
Tapered Clamp	Interfering Bolt	Non-interfering bolt
Recess with threaded hole	Recess with hole for pin	Grooved

On the side of the tractor, on the other hand, the cardan must be able to be released quickly (without the use of tools) so collar or button forks are used.

4.4 SAFETY DEVICES

The **safety device** – essential to **limit the torque** acting on the cardan drive in case of **overloads** – must be installed **on tool side** allowing considerable reduction of **immobilisation and repair costs**.

FD



The FD torque limiter is a helical spring clutch, used to limit the value of the torque transmitted to the calibration value through sliding of the friction discs, while maintaining power transmission. It is also useful to absorb torque peaks during machine start-up with high inertia. Torque limitation is ensured by sliding of the clutch components on 2 or 4 discs of special material (asbestos-free). The value of the calibration torque can be adjusted by changing the compression height of the coil springs. Available with 2 or 4 friction discs. Work in both directions of rotation.

BD



The BD friction disc torque limiter is a Belleville conical spring clutch, used to limit the value of the torque transmitted at the calibration value (750-1600 Nm) through sliding of the friction discs while maintaining the power transmission. Belleville conical springs allow the clutch to retain its calibration characteristics for a long time, not being affected by wearing of the discs. The closed and linear design is aimed at removing grip points, protrusions and cavities, thus increasing the safety features during use. The clutch uses 2 or 4 discs (BD2: 2 friction discs; BD4: 4 friction discs) in special material (asbestos-free). The value of the calibration torque is pre-set at the factory and can be modified by the user by replacing the spring pack if necessary. This system precludes the possibility of tampering with the clutch calibration during use, ensuring protection of the transmission.

FT-A/FT-F



The FT-A and FT-F torque limiters are friction plate clutches which intervene without interrupting power transmission. They work in both directions of rotation and the Belleville conical springs limit the value of the torque transmitted to the calibration value through sliding of the friction discs (in quantities of 2 or 4, in special material). The Belleville conical springs guarantee maintaining of the clutch calibration over time, as they are not affected by wearing of the discs. For the FT-A the value of the calibration torque can be adjusted by changing the compression height of the conical spring. The value of the calibration torque of the FT-F is instead pre-set in the factory, precluding the possibility of tampering with the clutch calibration during use and thus safeguarding protection of the transmission of the machine on which it is applied.

LN



The torque limiter LN is a device that limits torque thanks to pawls that act in a radial direction counteracted by the resistance offered by helical springs. The transmission is reset automatically when the number of revolutions is reduced. When the transmitted torque exceeds the pre-set calibration value, the pawls come out of their seats overcoming the resistance offered by 1 or 2 helical springs.

At the time of intervention, the LN limiter interrupts the power transmission, reducing the transmitted torque to a minimum value necessary for the subsequent reset, which occurs automatically when the number of revolutions is reduced. The value of the calibration torque is pre-set at the factory according to the number of rows of pawls and the configuration adopted for the springs. Thanks to the residual torque reduced to a minimum, overheating and vibrations are also reduced during the intervention.

LDR/LDR-K/LDR-M



The LDR torque limiter is of the radial cam type, acting in a single direction of rotation (the reverse rotation version is also available) which ensures torque transmission up to the pre-set calibration value by means of a set of springs. At the time of intervention, the LDR limiter disconnects the power transmission, cancelling the torque transmitted to less than a residual pulsating torque, necessary for the subsequent reset. The latter occurs automatically when, once the cause of clogging has been eliminated, the number of revolutions of the transmission is reduced to a minimum value sufficient for the purpose. The value of the calibration torque is pre-set at the factory and can be varied by the user after replacing the spring set. Thanks to the residual torque reduced to a minimum, overheating and vibrations are also reduced during the intervention. Compact dimensions, reduced weights, use of sliding bearings and the use of quality materials allow the device to be used even for speeds of over 1000 rpm.

LC



The LC device limits the torque thanks to the shearing of a bolt that must be replaced to restore the power transmission. The intervention torque is a function of the bolt's distance from the transmission axis, its diameter and its resistance class. When the torque exceeds that bearable by the bolt this is sheared and the transmitted power is cancelled. To restore the transmission, the sheared bolt must be replaced with one with the same characteristics (diameter, strength class, threaded portion and length) as the original bolt. Special executions on request. Work in both directions of rotation.

RF



The RF freewheel allows the transmission of motion in only one direction of rotation. It is used in the presence of machines with high rotational inertia to avoid harmful torque returns during deceleration or stopping. Power transmission is achieved through hardened steel lugs which are pushed against broached seats in the hub by flat springs.

FR



The FR limiter is a combined safety device that integrates the functions of disc clutch and free-wheel. The torque is limited to the calibration value while maintaining the power transmission. The sliding of the clutch components takes place on 2 or 4 friction discs in special material (asbestos-free). The value of the calibration torque can be adjusted by changing the compression height of the coil springs. The integrated freewheel prevents harmful torque returns during deceleration or stopping.

LCRF



The LCRF limiter is a combined safety device that integrates the functions of shear bolt limiter and freewheel. It performs the dual function of ensuring protection of the machine from overloads and preventing the return of torque on machines with high rotational inertia when the power transmission is interrupted. The freewheel allows the transmission of motion in only one direction of rotation; when the torque exceeds that bearable by the bolt, it is sheared and the transmitted power is cancelled. To restore the transmission, the sheared bolt must be replaced with one with the same characteristics (diameter, strength class, threaded portion and length) as the original bolt.

GPS



the GPS coupling is a flexible torsion device that, thanks to a special vulcanised rubber interposed between the hub and fork, allows a reduction of torque peaks and alternating loads. It absorbs shocks, torsional vibrations and helps compensate for slight misalignments between the shafts themselves. The special vulcanised rubber tolerates angular displacements of the driven part with respect to the conductor part of up to 20°, a mechanical limit that is reached when the stop pin reaches the mechanical stop.

To avoid breakage of the pin in the event of sudden overloads, it is advisable to equip the transmission with a torque limiter.

4.5 COMPLETE PROTECTIONS

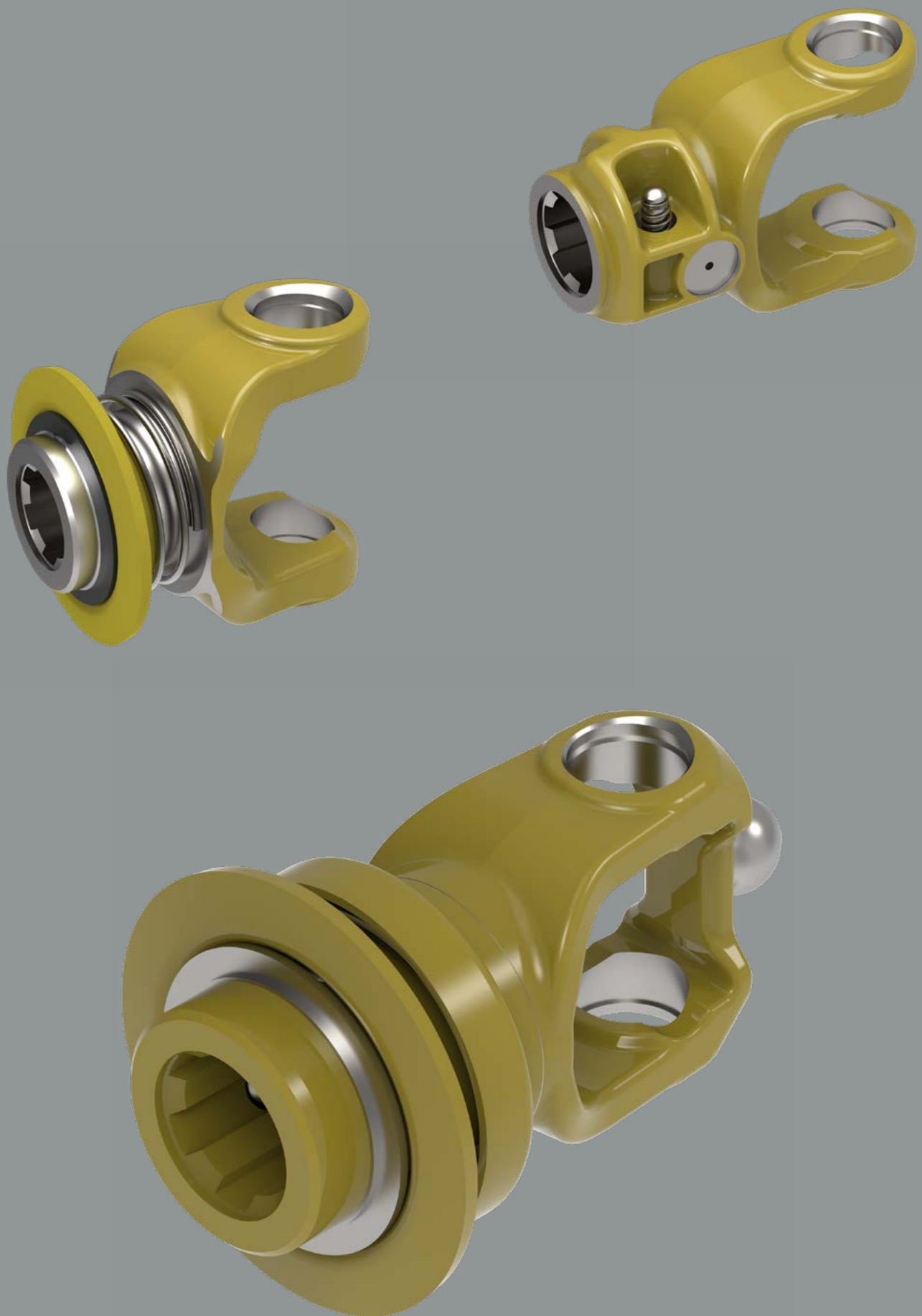
The cardan shaft is equipped with complete guards that are subjected to numerous types of conformity tests before obtaining certification from external notified bodies as per Annex IV of Directive 2006/42/EC. The guards have the function of reducing the possibility of coming into contact with the rotating parts and of guaranteeing a high safety standard.

The tasks of the machine manufacturer are to:

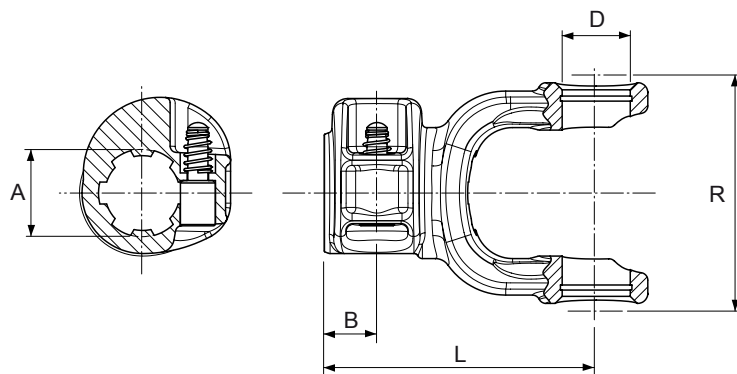
- Add protection for the interface area between cardan and power take-off on the tool side (PIC);
- Equip the machine with a support to rest the PTO shaft when it is disconnected from the tractor;
- Equip the machine with special anchoring points for the anti-rotation chains of the protections.

The operator's task is to always keep the protection in an efficient condition to ensure their safety.

5. EXTREMITY FORKS

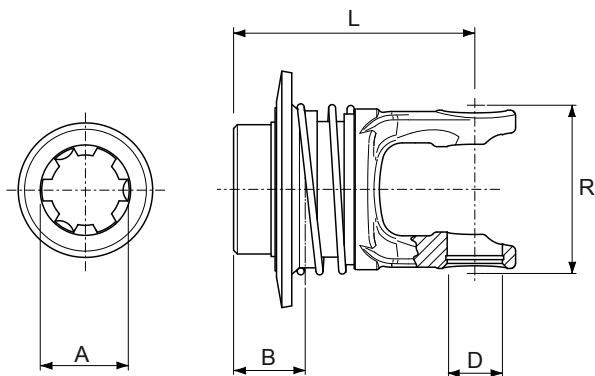


WITH BUTTON



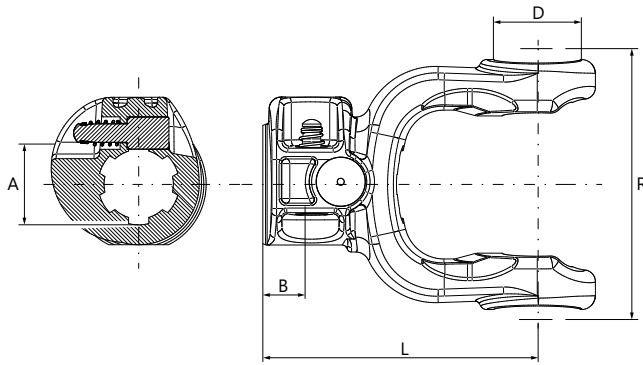
Size	D (mm)	R (mm)	B (mm)	L (mm)	A	CODE	QUICK BUTTON KIT CODE
2	23.8	76	21	99	1 1/8" Z6	1022005	1581037
					1 3/8" Z6	1022010	1581037
					1 3/8" Z21	1022015	1581038
					26 UNI 220	1022001	1581037
					32 UNI 222	1022019	1581037
4	27	92		108	1 1/8" Z6	1024005	1581037
					1 3/8" Z6	1024010	1581037
					1 3/8" Z21	1024015	1581038
					26 UNI 220	1024001	1581037
					32 UNI 222	1024019	1581037
5	30.2	98		111	1 3/8" Z6	1025010	1581037
					1 3/8" Z21	1025015	1581038
					32 UNI 222	1025019	1581037
6	30.2	112		118	1 3/8" Z6	1026010	1581037
					1 3/8" Z21	1026015	1581038
					32 UNI 222	1026019	1581037
		24	123	1 3/4" Z6	1026020	1581042	
				1 3/4" Z20	1026025	1581042	
7	34.9	112	21	118	1 3/8" Z6	1027010	1581037
					1 3/8" Z21	1027015	1581038
		24	123	1 3/4" Z6	1027020	1581042	
				1 3/4" Z20	1027025	1581042	
8	34.9	124	21	128	1 3/8" Z6	1028010	1581037
					1 3/8" Z21	1028015	1581038
		24	133	1 3/4" Z6	1028020	1581042	
				1 3/4" Z20	1028025	1581042	
10	42	136	21	141	1 3/8" Z6	102T010	1581037
					1 3/8" Z21	102T015	1581038
		24	145	1 3/4" Z6	102T020	1581042	
				1 3/4" Z20	102T025	1581042	

PULL COLLAR



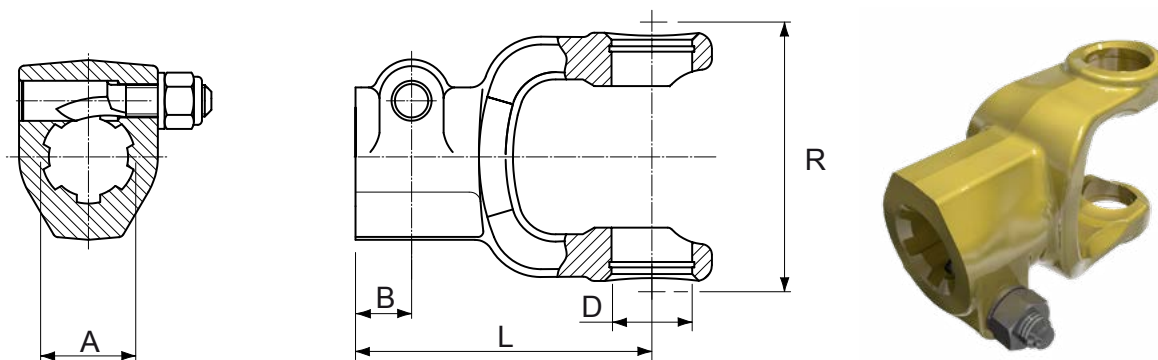
Dim.	D (mm)	R (mm)	B (mm)	L (mm)	A	CODE	CODE PULL COLLAR KIT	
2	23.8	76	28.5	102	1 1/8" Z6	1012008	1004230	
					1 3/8" Z6	1012013	1004227	
					1 3/8" Z21	1012018		
4	27	92		111	1 3/8" Z6	1014013	1004227	
					1 3/8" Z21	1014018		
5	30.2	98		114	1 3/8" Z6	1015013	1004227	
					1 3/8" Z21	1015018		
6	30.2	112		121	1 3/8" Z6	1016013	1004227	
					1 3/8" Z21	1016018		
				124	1 3/4" Z6	1016023	1004242	
					1 3/4" Z20	1016028		
7	34.9			112	121	1 3/8" Z6	1017013	1004227
						1 3/8" Z21	1017018	
					124	1 3/4" Z6	1017023	1004242
						1 3/4" Z20	1017028	
8	34.9	124			134	1 3/8" Z6	1018013	1004227
						1 3/8" Z21	1018018	
					135	1 3/4" Z6	1018023	1004242
						1 3/4" Z20	1018028	
10	42			136	147	1 3/8" Z6	101T013	1004225
						1 3/8" Z21	101T018	
					152	1 3/4" Z6	101T023	1004242
						1 3/4" Z20	101T028	
12	47.6	161			157	1 3/8" Z6	10112013	1004225
						1 3/8" Z21	10112018	
					162	1 3/4" Z6	10112023	1004246
						1 3/4" Z20	10112028	
14	53		161	38	174	2 1/4" Z22	10112033	1004247
				28.5	157	1 3/8" Z6	10114013	1004225
						1 3/8" Z21	10114018	
					162	1 3/4" Z6	10114023	1004246
		1 3/4" Z20				10114028		
		38		174	2 1/4" Z22	10114033	1004247	

QUICK PIN



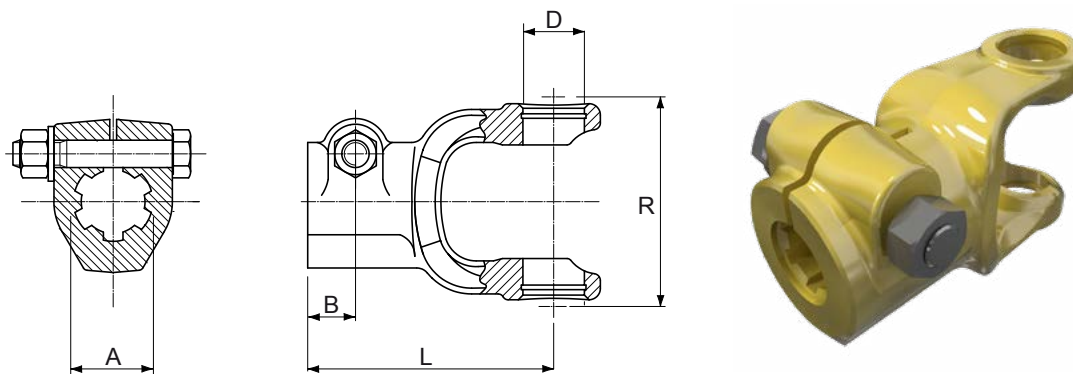
Dim.	D (mm)	R (mm)	B (mm)	L (mm)	A	CODE	CODE KIT BUTTON	CODE QUICK PIN KIT	
2	23.8	76	21	99	1 3/8" Z6	1022510	1581037	1581922	
					1 3/8" Z21	1022515	1581038	1581924	
4	27	92		108	1 3/8" Z6	1024510	1581037	1581922	
					1 3/8" Z21	1024515	1581038	1581924	
5	30.2	98		111	1 3/8" Z6	1025510	1581037	1581922	
					1 3/8" Z21	1025515	1581038	1581924	
6	30.2	112		118	1 3/8" Z6	1026510	1581037	1581922	
					1 3/8" Z21	1026515	1581038	1581924	
				24	123	1 3/4" Z6	1026520	1581042	1581923
						1 3/4" Z20	1026525		1581923
7	34.9			21	118	1 3/8" Z6	1027510	1581037	1581922
						1 3/8" Z21	1027515	1581038	1581924
				24	123	1 3/4" Z6	1027520	1581042	1581923
						1 3/4" Z20	1027525		1581923
8	34.9	124	21	128	1 3/8" Z6	1028510	1581037	1581922	
					1 3/8" Z21	1028515	1581038	1581924	
			24	133	1 3/4" Z6	1028520	1581042	1581923	
					1 3/4" Z20	1028525			
10	42	136	21	141	1 3/8" Z6	102T510	1581037	1581922	
					1 3/8" Z21	102T515	1581038	1581924	
			24	145	1 3/4" Z6	102T520	1581042	1581923	
					1 3/4" Z20	102T525			

CONICAL CLAMP



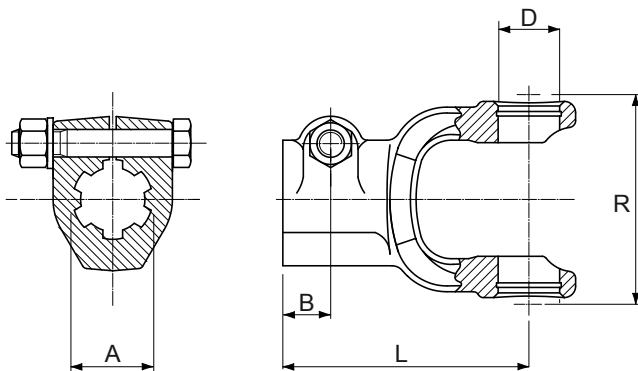
Dim.	D (mm)	R (mm)	B (mm)	L (mm)	A	CODE	KIT TAPERED CLAMP	
2	23.8	76	21	101	1 1/8" Z6	1032005	6821282	
					1 3/8" Z6	1032010		
					1 3/8" Z21	1032015		
4	27	92		108	1 1/8" Z6	1034005		
					1 3/8" Z6	1034010		
					1 3/8" Z21	1034015		
5	30.2	98		111	1 3/8" Z6	1035010	6821486	
					1 3/8" Z21	1035015		
					1 3/4" Z6	1035020		
					1 3/4" Z20	1035025		
6		112		118	1 3/8" Z6	1036010	6821282	
					1 3/8" Z21	1036015		
				121	1 3/4" Z6	1036020	6821486	
					1 3/4" Z20	1036025		
7	34.9			118	1 3/8" Z6	1037010	6821282	
					1 3/8" Z21	1037015		
					121	1 3/4" Z6	1037020	6821486
						1 3/4" Z20	1037025	
8		124	25	131	1 3/8" Z6	1038010	6821281	
					1 3/8" Z21	1038015		
					1 3/4" Z6	1038020	6821486	
					1 3/4" Z20	1038025		
10	42	136	25	137	1 3/8" Z6	103T010	6821281	
					1 3/8" Z21	103T015		
					1 3/4" Z6	103T020	6821486	
					1 3/4" Z20	103T025		
12	47.6	161	26	160	1 3/4" Z6	10312520	6821487	
					1 3/4" Z20	10312525		
170	2 1/4" Z22			10312030	6821894			
14	53			160	1 3/4" Z6	10314520	6821487	
					1 3/4" Z20	10314525		
			36	170	2 1/4" Z22	10314030	6821894	

INTERFERING BOLT



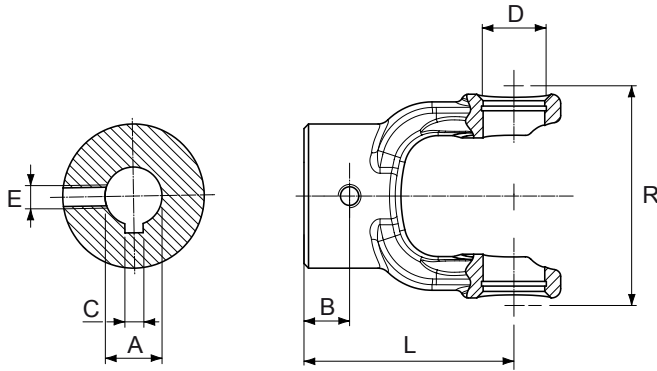
Dim.	D (mm)	R (mm)	B (mm)	L (mm)	A (mm)	CODE	KIT BOLT	
2	23.8	76	21	101	1 1/8" Z6	1102005	6811270	
					1 3/8" Z6	1102010		
					1 3/8" Z21	1102015		
4	27	92		108	1 1/8" Z6	1104005		6811270
					1 3/8" Z6	1104010		
					1 3/8" Z21	1104015		
5	30.2	98		111	1 3/8" Z6	1105010	6811480	
					1 3/8" Z21	1105015		
					1 3/4" Z6	1105020		
					1 3/4" Z21	1105025		
6		112		118	1 3/8" Z6	1106010	6811270	
					1 3/8" Z21	1106015		
				121	1 3/4" Z6	1106020	6811480	
					1 3/4" Z21	1106025		
7	34.9			118	1 3/8" Z6	1107010	6811270	
					1 3/8" Z21	1107015		
				121	1 3/4" Z6	1107020	6811480	
					1 3/4" Z21	1107025		
8		124	25	131	1 3/8" Z6	1108010	6811290	
					1 3/8" Z21	1108015		
					1 3/4" Z6	1108020	6811490	
					1 3/4" Z21	1108025		
10	42	136	137	1 3/8" Z6	110T010	6811290		
				1 3/8" Z21	110T015			
				1 3/4" Z6	110T020	6811410		
				1 3/4" Z21	110T025			

NON-INTERFERING BOLT



Dim.	D (mm)	R (mm)	B (mm)	L (mm)	A (mm)	CODE	KIT BOLT	
2	23.8	76	21	101	1 1/8" Z6	1102505	6811270	
					1 3/8" Z6	1102510		
					1 3/8" Z21	1102515		
4	27	92		108	1 1/8" Z6	1104505		
					1 3/8" Z6	1104510		
					1 3/8" Z21	1104515		
5	30.2	98		111	1 3/8" Z6	1105510		6811280
					1 3/8" Z21	1105515		
					1 3/4" Z6	1105520		
					1 3/4" Z21	1105525		
6		112		118	118	1 3/8" Z6	1106510	6811270
						1 3/8" Z21	1106515	
					121	1 3/4" Z6	1106520	6811280
						1 3/4" Z21	1106525	
7	34.9			112	118	1 3/8" Z6	1107510	6811270
						1 3/8" Z21	1107515	
					121	1 3/4" Z6	1107520	6811280
						1 3/4" Z21	1107525	
8		124	124	131	1 3/8" Z6	1108510	6811290	
					1 3/8" Z21	1108515		
					137	1 3/4" Z6	1108520	6811490
						1 3/4" Z21	1108525	
10	42		136	137	1 3/8" Z6	110T510	6811290	
					1 3/8" Z21	110T515		
					1 3/4" Z6	110T520	6811410	
					1 3/4" Z21	110T525		

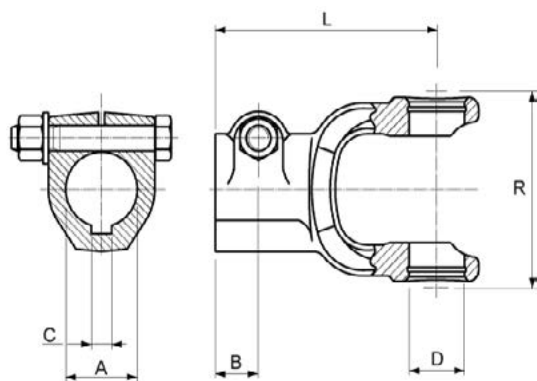
RECESS WITH THREADED HOLE



Dim.	D (mm)	R (mm)	B (mm)	L (mm)	A	C	E (mm)	CODE
2	23.8	76	20	84	20 H8	6 JS9	M8	1062005
					22 H8	6 JS9	M8	1062010
					25 H8	8 JS9	M10	1062015
					30 H8	8 JS9	M10	1062020
					3/4"	3/16"	3/8 16 UNC	1062004
					1"	1/4"	3/8 16 UNC	1062016
					1 1/4"	1/4"	3/8 16 UNC	1062022
4	27	92		92	25 H8	8 JS9	M10	1064010
					30 H8	8 JS9	M10	1064015
					35 H8	10 JS9	M12	1064020
					1"	1 1/4"	3/8 16 UNC	1064016
					1 1/4"	1 1/4"	3/8 16 UNC	1064022
					1 3/8"	5/16"	3/8 16 UNC	1064024
5	30.2	98		98	30 H8	8 JS9	M10	1065005
					35 H8	10 JS9	M12	1065010
					40 H8	12 JS9	M12	1065015
					1 1/4"	1/4"	3/8 16 UNC	1065022
					1 3/8"	5/16"	3/8 16 UNC	1065024
					1 1/2"	3/8"	3/8 16 UNC	1065026
6	30.2	112		108	30 H8	8 JS9	M10	1066005
					35 H8	10 JS9	M12	1066010
					40 H8	12 JS9	M12	1066015
					1 1/4"	1/4"	3/8 16 UNC	1066022
					1 3/8"	5/16"	3/8 16 UNC	1066024
					1 1/2"	3/8"	3/8 16 UNC	1066026
7	34.9			108	35 H8	10 JS9	M12	1067005
					40 H8	12 JS9	M12	1067010
					45 H8	14 JS9	M14	1067020
					1 3/8"	5/16"	3/8 16UNC	1067024
					1 1/2"	3/8"	3/8 16 UNC	1067026
					1 3/4"	3/8"	3/8 16 UNC	1067028

8	34.9	124	20	119	35 H8	10 JS9	M12	1068005
					40 H8	12 JS9	M12	1068010
					45 H8	14 JS9	M14	1068020
					1 3/8"	5/16"	3/8 16UNC	1068024
					1 1/2"	3/8"	3/8 16 UNC	1068026
					1 3/4"	3/8"	3/8 16 UNC	1068028
10	42	136	25	137	40 H8	12 JS9	M12	106T010
					45 H8	14 JS9	M14	106T020
					1 1/2"	3/8"	3/8 16UNC	106T026
					1 3/4"	3/8"	3/8 16 UNC	106T028

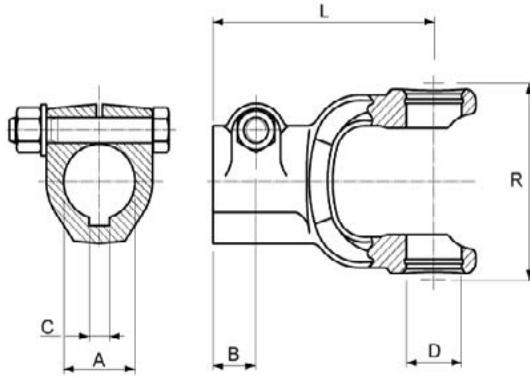
SLOT WITH INTERFERING BOLT



Dim.	D (mm)	R (mm)	L (mm)	B (mm)	A	C	E (mm)	CODE	KIT BOLT
2	23.8	76	101	21	20 H8	6 JS9	8.5	1042005	6811270
					22 H8	6 JS9	9.5	1042010	
					25 H8	8 JS9	11	1042015	
					30 H8	8 JS9	13	1042020	
					3/4"	3/16"	8	1042004	
					1"	1/4"	11	1042016	
					1 1/4"	1/4"	14	1042022	
4	27	92	108		22 H8	6 JS9	9.5	1044005	6811270
					25 H8	8 JS9	11	1044010	
					30 H8	8 JS9	13	1044015	
					35 H8	10 JS9	15.5	1044020	
					1"	1/4"	11	1044016	
					1 1/4"	1/4"	14	1044022	
					1 3/8"	5/16"	15.5	1044024	
5	30.2	98	111		30 H8	8 JS9	13	1045005	6811270
					35 H8	10 JS9	15.5	1045010	
					40 H8	12 JS9	18	1045015	6811280
					1 1/4"	1/4"	14	1045022	6811270
					1 3/8"	5/16"	15.5	1045024	
					1 1/2"	3/8"	17	1045026	6811280
6	30.2	112	118		30 H8	8 JS9	13	1046005	6811270
			121	35 H8	10 JS9	15.5	1046010		
			118	40 H8	12 JS9	18	1046015	6811280	
			121	1 1/4"	1/4"	14	1046022	6811270	
				1 3/8"	5/16"	15.5	1046024		
7	34.9	112	118	1 1/2"	3/8"	17	1046026	6811280	
			121	35 H8	10 JS9	15.5	1047005	6811270	
				40 H8	12 JS9	18	1047010	6811280	
				45 H8	14 JS9	20.5	1047020		
				1 3/8"	5/16"	15.5	1047024	6811270	
				1 1/2"	3/8"	17	1047026	6811280	
1 3/4"	3/8"	20.5	1047028						

8	34.9	124	131	25	35 H8	10 JS9	15.5	1048005	6811290
					40 H8	12 JS9	18	1048010	
					45 H8	14 JS9	20.5	1048020	
					1 3/8"	5/16"	15.5	1048024	
					1 1/2"	3/8"	17	1048026	
					1 3/4"	3/8"	20.5	1048028	
10	42	136	137		40 H8	12 JS9	18	104T010	
					45 H8	14 JS9	20.5	104T020	
					1 1/2"	3/8"	17	104T026	
					1 3/4"	3/8"	20.5	104T028	
12	47.6	161	161	27	45 H8	14 js9	18.5	10412015	6811612
					50 H8	14 js9	21	10412020	
14	53				45 H8	14 js9	18.5	10414015	
					50 H8	14 js9	21	10414020	

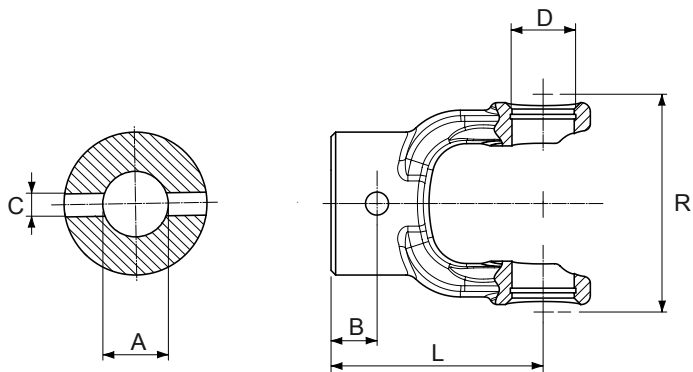
RECESS WITH NON-INTERFERING BOLT



Dim.	D (mm)	R (mm)	L (mm)	B (mm)	E (mm)	A	C	CODE	KIT BOLT
2	23.8	76	101	21	8.5	20 H8	6 JS9	1052005	6811270
					9.5	22 H8	6 JS9	1052010	
					11	25 H8	8 JS9	1052015	
					13	30 H8	8 JS9	1052020	
					8	3/4"	3/16"	1052004	
					11	1"	1/4"	1052016	
					14	1 1/4"	1/4"	1052022	
4	27	92	108		9.5	22 H8	6 JS9	1054005	6811270
					11	25 H8	8 JS9	1054010	
					13	30 H8	8 JS9	1054015	
					15.5	35 H8	10 JS9	1054020	
					11	1"	1/4"	1054016	
					14	1 1/4"	1/4"	1054022	
					15.5	1 3/8"	5/16"	1054024	
5	30.2	98	111		13	30 H8	8 JS9	1055005	6811280
					15.5	35 H8	10 JS9	1055010	
					18	40 H8	12 JS9	1055015	
					14	1 1/4"	1/4"	1055022	
					15.5	1 3/8"	5/16"	1055024	
					17	1 1/2"	3/8"	1055026	
					13	30 H8	8 JS9	1056005	
6	112	118	15.5		35 H8	10 JS9	1056010	6811280	
			18		40 H8	12 JS9	1056015		
			14		1 1/4"	1/4"	1056022		
			15.5		1 3/8"	5/16"	1056024		
			17		1 1/2"	3/8"	1056026		
			13		30 H8	8 JS9	1056005		
			15.5		35 H8	10 JS9	1056010		

7	34.9	112	118	21	15.5	35 H8	10 JS9	1057005	6811270				
			121		18	40 H8	12 JS9	1057010	6811280				
			118		20.5	45 H8	14 JS9	1057020					
			121		15.5	1 3/8"	5/16"	1057024	6811270				
					17	1 1/2"	3/8"	1057026	6811280				
					20.5	1 3/4"	3/8"	1057028					
8		34.9	124	131	25	15.5	35 H8	10 JS9	1058005	6811290			
						18	40 H8	12 JS9	1058010				
						20.5	45 H8	14 JS9	1058020				
						15.5	1 3/8"	5/16"	1058024				
	17					1 1/2"	3/8"	1058026					
	20.5					1 3/4"	3/8"	1058028					
10	42		136	137		25	18	40 H8	12 JS9		105T010	6811290	
							20.5	45 H8	14 JS9		105T020		
							17	1 1/2"	3/8"		105T026		
							20.5	1 3/4"	3/8"		105T028		
12		47.6	161	161	27		18.5	45 H8	14 js9	10512015	6811612		
							21	50 H8	14 js9	10512025			
		14					53	18.5	45 H8	14 js9			10514015
								21	50 H8	14 js9			10514020

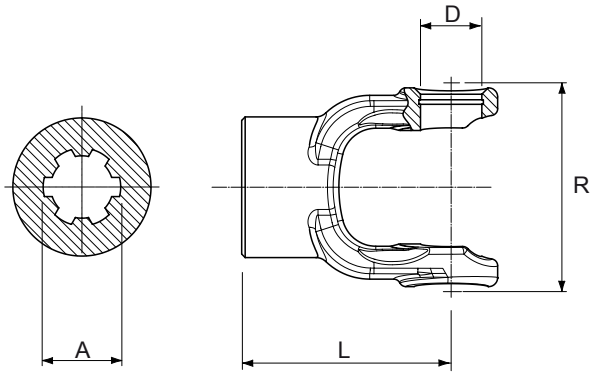
PLUG HOLE



Dim.	D (mm)	R (mm)	B (mm)	L (mm)	A	C	CODE
2	23.8	76	20	84	20 H8	6 H12	1072005
					22 H8	8 H12	1072010
					25 H8	8 H12	1072015
					30 H8	10 H12	1072020
					3/4"	15/64"	1072004
					1"	5/16"	1072016
					1 1/4"	25/64"	1072022
4	27	92		92	25 H8	8 H12	1074010
					30 H8	10 H12	1074015
					35 H8	13 H12	1074020
					1"	5/16"	1074016
					1 1/4"	25/64"	1074022
					1 3/8"	33/64"	1074024
5	30.2	98		98	30 H8	10 H12	1075005
					35 H8	13 H12	1075010
					40 H8	13 H12	1075015
					1 1/4"	25/64"	1075022
					1 3/8"	33/64"	1075024
					1 1/2"	33/64"	1075026
6		112		108	30 H8	10 H12	1076005
					35 H8	13 H12	1076010
					40 H8	13 H12	1076015
					1 1/4"	25/64"	1076022
					1 3/8"	33/64"	1076024
					1 1/2"	33/64"	1076026
7	34.9	20	108	35 H8	13 H12	1077005	
				40 H8	13 H12	1077010	
				45 H8	13 H12	1077020	
				1 3/8"	33/64"	1077024	
				1 1/2"	33/64"	1077026	
				1 3/4"	33/64"	1077028	

8	34.9	124	20	119	35 H8	13 H12	1078005
					40 H8	13 H12	1078010
					45 H8	13 H12	1078020
					1 3/8"	33/64"	1078024
					1 1/2"	33/64"	1078026
					1 3/4"	33/64"	1078028
10	42	136	25	137	40 H8	13 H12	107T010
					45 H8	13 H12	107T020
					1 1/2"	33/64"	107T026
					1 3/4"	33/64"	107T028

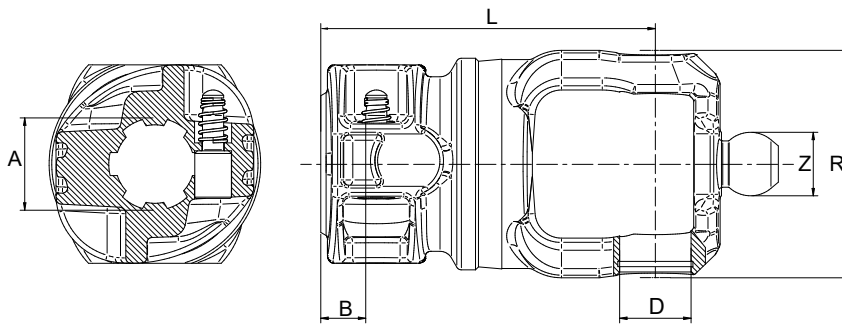
GROOVED



Dim.	D (mm)	R (mm)	L (mm)	A	CODE
2	23.8	76	84	1 1/8 Z6	1702005
				1 3/8 Z6	1702010
				1 3/8 Z21	1702015
				21 UNI 221	1702012
				26 UNI 220	1702001
4	27	92	92	1 1/8 Z6	1704005
				1 3/8 Z6	1704010
				1 3/8 Z21	1704015
5	30.2	98	98	1 3/8 Z6	1705010
				1 3/8 Z21	1705015
				1 3/4 Z6	1705020
				1 3/4 Z20	1705025
6	30.2	112	108	1 3/8 Z6	1706010
				1 3/8 Z21	1706015
				1 3/4 Z6	1706020
				1 3/4 Z20	1706025
7	34.9	112	108	1 3/8 Z6	1707010
				1 3/8 Z21	1707015
				1 3/4 Z6	1707020
				1 3/4 Z20	1707025
8	34.9	124	119	1 3/8 Z6	1708010
				1 3/8 Z21	1708015
				1 3/4 Z6	1708020
				1 3/4 Z20	1708025
10	42	136	137	1 3/8 Z6	170T010
				1 3/8 Z21	170T015
				1 3/4 Z6	170T020
				1 3/4 Z20	170T025
12	47.6	160	160	1 3/4" Z6	17012020
			160	1 3/4" Z20	17012025
			170	2 1/4" Z22	17012030

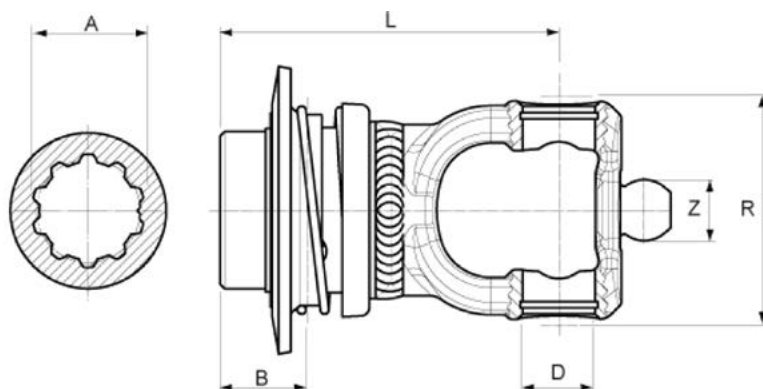
14	53	160	160	1 3/4" Z6	17014020
				1 3/4" Z20	17014025
			170	2 1/4" Z22	17014030

HOMOKINETICS WITH BUTTON



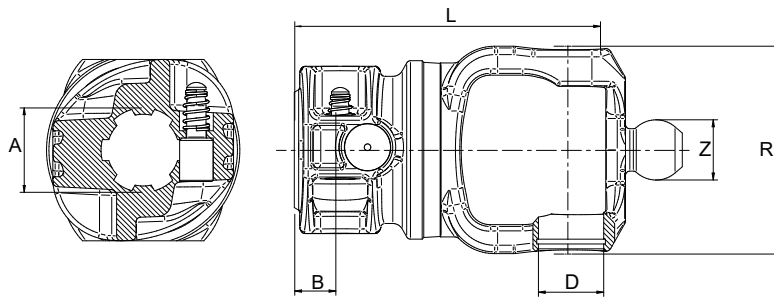
Size	D (mm)	R (mm)	B (mm)	L (mm)	Z	A	CODE	QUICK BUTTON KIT CODE
2	23.8	75	21	112	20	1 3/8" Z6	1022710	1581037
						1 3/8" Z21	1022715	1581038
4	27	92	21	123	24	1 3/8" Z6	1024710	1581037
						1 3/8" Z21	1024715	1581038
6	30.2	102	21	128	27	1 3/8" Z6	1026710	1581037
						1 3/8" Z21	1026715	1581038
			24	130		1 3/4" Z6	1026720	1581042
						1 3/4" Z20	1026725	
8	34.9	114	21	138	30	1 3/8" Z6	1028710	1581037
						1 3/8" Z21	1028715	1581038
			24	140		1 3/4" Z6	1028720	1581042
						1 3/4" Z20	1028725	
10	42	145	21	157	35	1 3/8" Z6	1020710	1581037
						1 3/8" Z21	1020715	1581038
			24	159		1 3/4" Z6	1020720	1581042
						1 3/4" Z20	1020725	

HOMOKINETIC PULL COLLARS



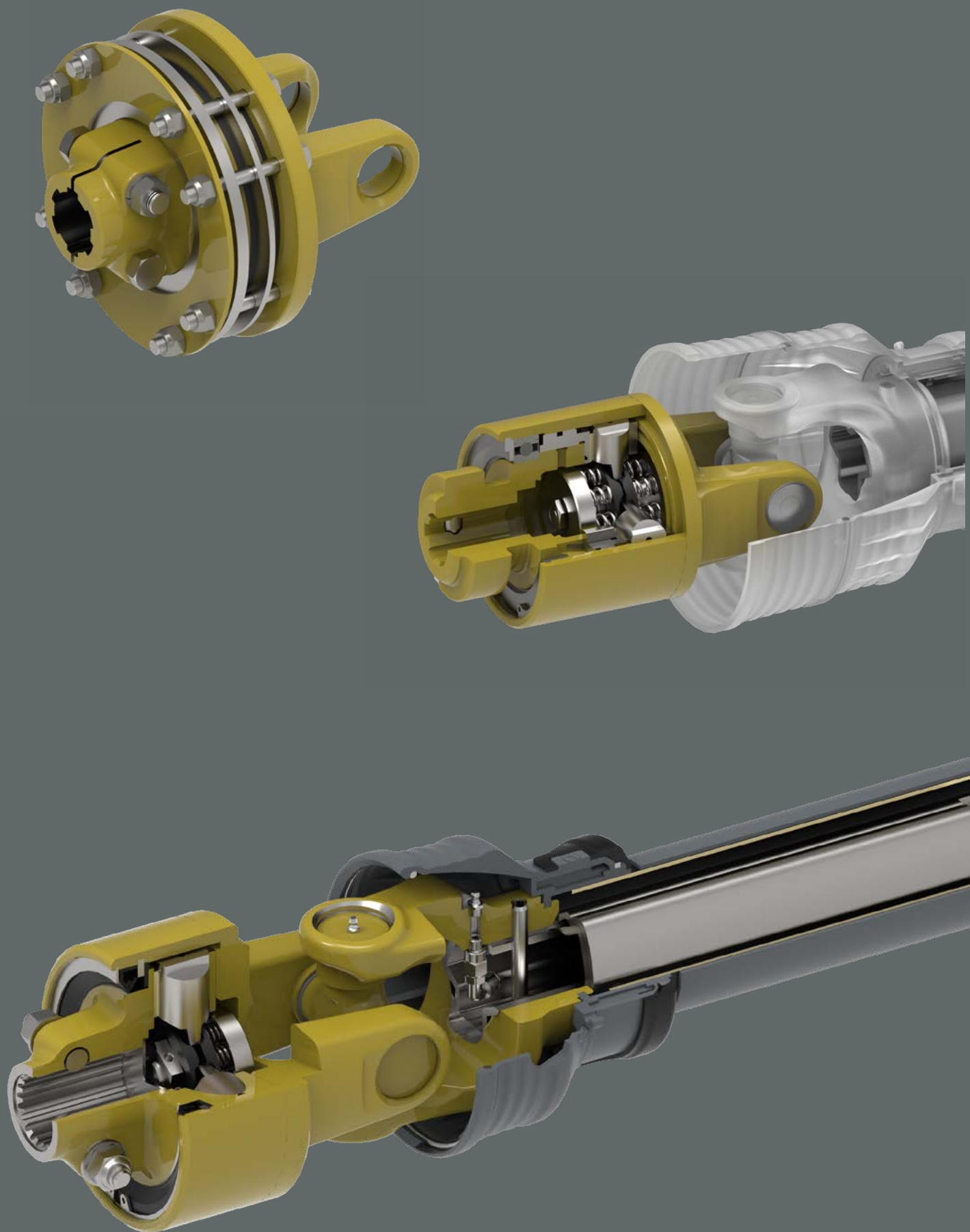
Size	D (mm)	R (mm)	B (mm)	L (mm)	Z	A	CODE
2	23.8	75	28.5	114	20	1 3/8" Z6	1012713
						1 3/8" Z21	1012718
4	27	92		122	24	1 3/8" Z6	1014713
						1 3/8" Z21	1014718
6	30.2	102		123.5	27	1 3/8" Z6	1016713
						1 3/8" Z21	1016718
				128		1 3/4" Z6	1016723
						1 3/4" Z20	1016728
8	34.9	114		133.5	30	1 3/8" Z6	1018713
						1 3/8" Z21	1018718
				138		1 3/4" Z6	1018723
						1 3/4" Z20	1018728
10	42	145		133.5	35	1 3/8" Z6	1010713
						1 3/8" Z21	1010718
				138		1 3/4" Z6	1010723
						1 3/4" Z20	1010728

QUICK PIN HOMOKINETICS



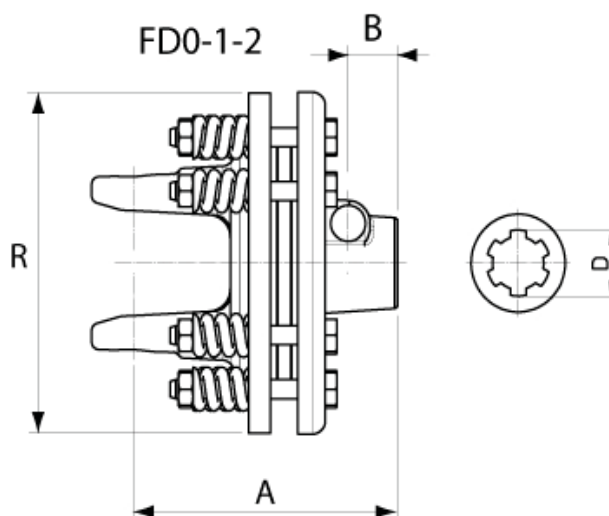
Size	D (mm)	R (mm)	B (mm)	L (mm)	Z	A	CODE	KIT CODE BUTTON	KIT CODE QUICK PIN
2	23.8	75	21	112	20	1 3/8" Z6	1022760	1581037	1581922
						1 3/8" Z21	1022765	1581038	1581924
4	27	92		123	24	1 3/8" Z6	1024760	1581037	1581922
						1 3/8" Z21	1024765	1581038	1581924
6	30.2	102		128	27	1 3/8" Z6	1026760	1581037	1581922
						1 3/8" Z21	1026765	1581038	1581924
			24	130		1 3/4" Z6	1026770	1581042	1581923
						1 3/4" Z20	1026775		
8	34.9	114	21	138	30	1 3/8" Z6	1028760	1581037	1581922
						1 3/8" Z21	1028765	1581038	1581924
			24	140		1 3/4" Z6	1028770	1581042	1581923
						1 3/4" Z20	1028775		
10	42	145	21	157	35	1 3/8" Z6	1020760	1581037	1581922
						1 3/8" Z21	1020765	1581038	1581924
			24	159		1 3/4" Z6	1020770	1581042	1581923
						1 3/4" Z20	1020775		

6. SAFETY ELEMENTS



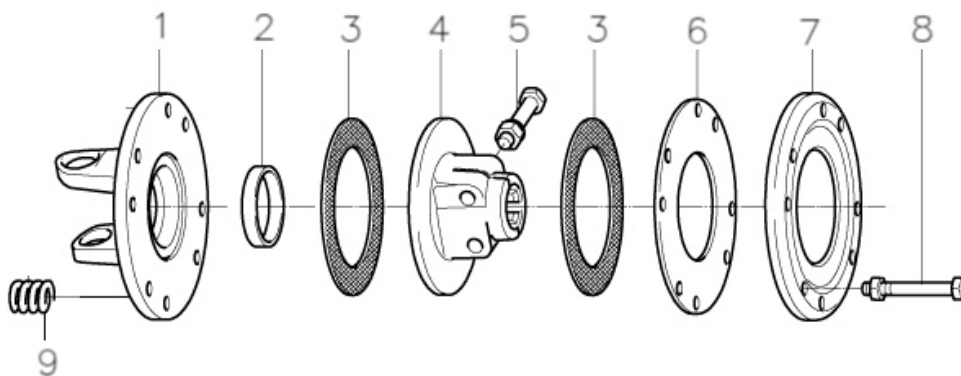
6.1 FD

2-DISC



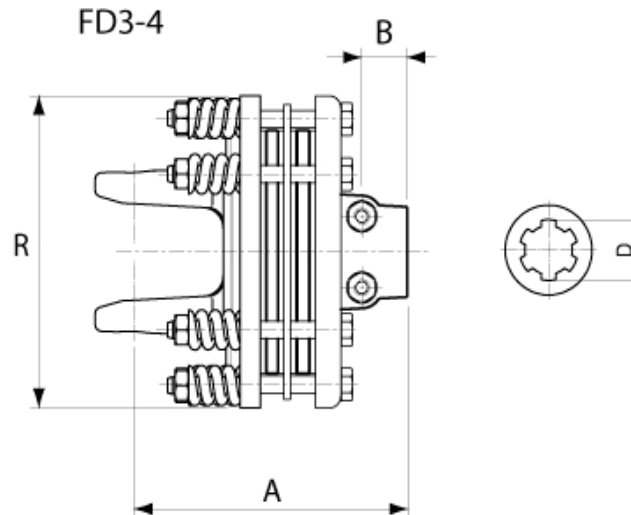
				FD0	FD1	FD2	ATTACHMENT
Size	Mmax [Nm]			700	900	1200	
	R [mm]			152	180	200	
	A [mm]	B [mm]	D	CODE			
4	128	21	1 3/8" Z6	1334030	-	-	Secant bolt
			1 3/8" Z21	1334041	-	-	-
	138	27	1 3/8" Z6	-	1344018	-	Double secant bolt
			1 3/8" Z21	-	1344021	-	Double secant bolt
5	144	27	1 3/8" Z6	-	1345018	1385018	Double secant bolt
			1 3/8" Z21	-	1345021	1385121	Double secant bolt
	151	29	1 3/4" Z6	-	1365018	1405018	Double secant bolt
			1 3/4" Z20	-	1365028	1405028	Double secant bolt
6	151	27	1 3/8" Z6	-	1346018	1386018	Double secant bolt
			1 3/8" Z21	-	1346021	1386121	
	158	29	1 3/4" Z6	-	1366018	1406018	Double secant bolt
			1 3/4" Z20	-	1366028	1406028	Double secant bolt
7	151	27	1 3/8" Z6	-	1347018	1387018	-
			1 3/8" Z21	-	1347021	1387121	-
	158	29	1 3/4" Z6	-	1367018	1407018	-
			1 3/4" Z20	-	1367028	1407028	-
8	159	27	1 3/8" Z6	-	-	1388018	Double secant bolt
			1 3/8" Z21	-	-	1388121	Double secant bolt
	166	26	1 3/4" Z6	-	-	1408018	Double secant bolt
			1 3/4" Z20	-	-	1408028	Double secant bolt

COMPONENTS



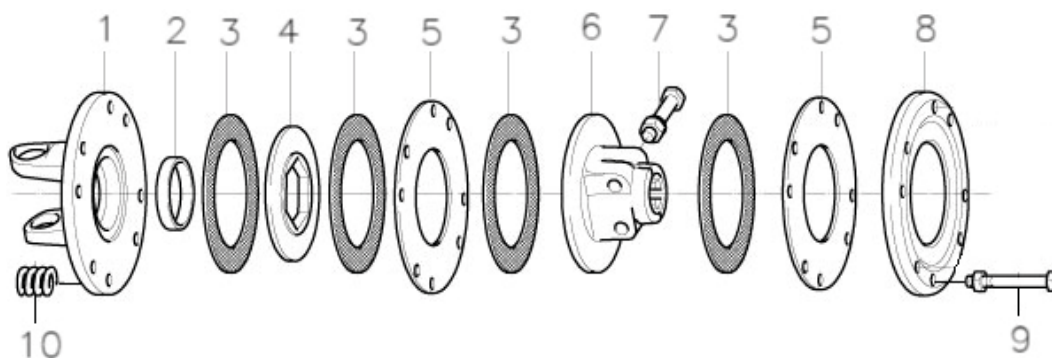
						FD0		FD1		FD2
No.	Description	Dim.	D	GROOV-INGS	Qty	CODE	Qty	CODE	Qty	CODE
1	FLANGE	4	-	-	1	1704021	1	1704006	1	-
		5				-		1705006		1705041
		6				-		1706005		1706033
		7				-		1707005		1707033
		8				-		-		1708006
2	BEARING	-	-	-	1	1704017	1	1705009	1	1705009
3	FRICTION DISC	-	Ø 120	-	2	1804000	2	-	2	-
			Ø 140			-		1805010		-
			Ø 160			-		-		1808010
4	HUB	-	-	1 3/8" Z6	1	1704016	1	1705005	1	1708005
				1 3/8" Z21		1704011		1705047		1708121
				1 3/4" Z6		-		1705045		1708014
				1 3/4" Z20		-		1705046		1706314
5	BOLT KIT M12X65	-	-	1 3/8"	1	6761265	-	-	-	-
	BOLT KIT M12X70				-	-	2	6761270	-	-
	BOLT KIT M12X80			1 3/4"	-	-	-	-	2	6761480
6	INTERNAL DISC	-	-	-	1	1134008	1	1135008	1	1138008
7	PRESSURE PLATE	-	-	-	1	1134007	1	1135007	1	1138007
8	BOLT AND NUT M10X75	-	-	-	8	6691075	-	-	-	-
	BOLT AND NUT M10X85	-	-	-	-	-	8	6691085	8	6691085
9	COIL SPRING	-	-	-	8	1215012	8	1215012	8	1215012

4-DISC



				FD3	FD4
Dim.	Mmax [Nm]			1500	2200
	R [mm]			180	200
	A [mm]	B [mm]	D	CODE	
4	156	27	1 3/8" Z6	1424030	-
			1 3/8" Z21	1424034	-
	163	29	1 3/4" Z6	1444031	-
			1 3/4" Z20	1444036	-
5	162	27	1 3/8" Z6	1425030	-
			1 3/8" Z21	1425035	-
	169	29	1 3/4" Z6	1445031	-
			1 3/4" Z20	1445041	-
6	169	27	1 3/8" Z6	1426030	1466030
			1 3/8" Z21	1426035	1466035
	176	29	1 3/4" Z6	1446031	1446032
			1 3/4" Z20	1446017	1446037
7	169	27	1 3/8" Z6	1427030	1467030
			1 3/8" Z21	1427035	1467035
	176	29	1 3/4" Z6	1447031	1447032
			1 3/4" Z20	1447017	1447037
8	177	27	1 3/8" Z6	1428030	1468031
			1 3/8" Z21	1428035	1468044
	184	29	1 3/4" Z6	1428031	1448032
			1 3/4" Z20	1448017	1448034
10	174	27	1 3/8" Z6	-	146T028
			1 3/8" Z21	-	146T030
	181	29	1 3/4" Z6	-	144T032
			1 3/4" Z20	-	144T034

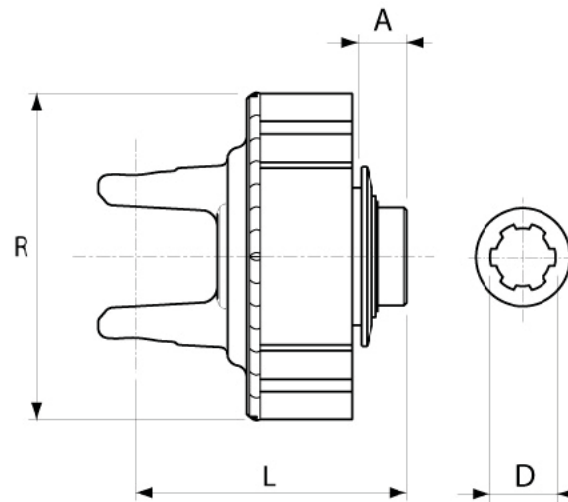
COMPONENTS



No.	Description	Dim.	D	GROOV- INGS	Qty	FD3	Qty	FD4
						CODE		CODE
1	FLANGE	4	-	-	1	1704006	1	-
		5				1705006		1705041
		6				1706005		1706033
		7				1707005		1707033
		8				1708011		1708006
		10						170T006
2	BEARING	-	-	-	1	1705009	1	1705009
3	FRICTION DISC	-	Ø 140	-	4	1805010	4	-
			Ø 160			-		1808010
4	HUB DISC	-	-	-	1	1705033	1	1708034
5	INTERNAL DISC	-	-	-	2	1135008	2	1138008
6	HUB	-	-	1 3/8" Z6	1	1705032	1	1708018
				1 3/8" Z21		1705048		1708021
				1 3/4" Z6		1705049		1708019
				1 3/4" Z20		1705043		1706313
7	BOLT KIT M12X70	-	-	1 3/8"	2	6761270	-	-
	BOLT KIT M12X80			1 3/4"	-	-	2	6761480
8	PRESSURE PLATE	-	-	-	1	1135007	1	1138007
9	BOLT AND NUT M10X100	-	-	-	8	6691010	8	6691010
10	COIL SPRING	-	-	-	8	1215012	8	1215012

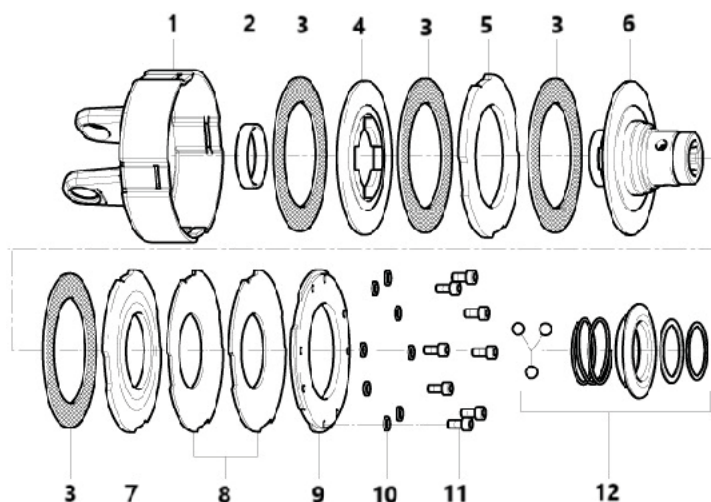
6.2 BD

2-DISC



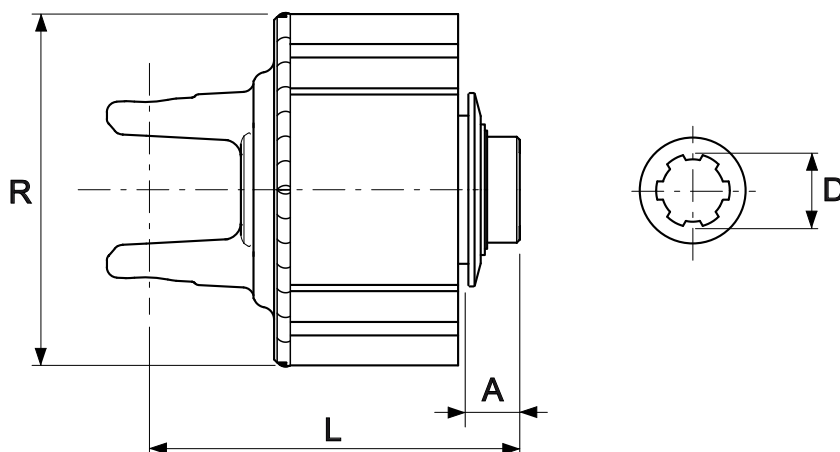
				BD2		
Dim.	Mmax [Nm]			750	900	1200
	R [mm]			171		
	L [mm]	A [mm]	D	CODE		
4	145	28	1 3/8" Z6	1384707	1384709	1384711
			1 3/8" Z21	1384708	1384710	1384712
5	153	28	1 3/8" Z6	1385707	1385709	1385711
			1 3/8" Z21	1385708	1385710	1375712
6	160	28	1 3/8" Z6	1386707	1386709	1386711
			1 3/8" Z21	1386708	1386710	1386712
7	160	28	1 3/8" Z6	1387707	1387709	1387711
			1 3/8" Z21	1387708	1387710	1387712
8	164	28	1 3/8" Z6	1388707	1388709	1388711
			1 3/8" Z21	1388708	1388710	1388712

COMPONENTS



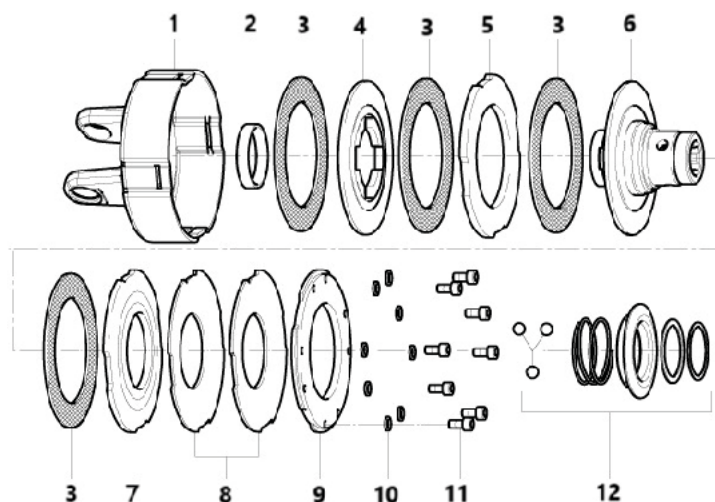
						BD2
No.	Description	Dim.	Qty	GROOVING	CALIBRATION [Nm]	CODE
1	EXTERNAL BODY	4	1	-	-	1384001
		5				1385001
		6				1386001
		7				1387001
		8				1388001
2	RING	-	1	-	-	1705009
3	FRICTION DISC	-	2	-	-	1806010
4	HUB	-		1 3/8" Z6	-	1704065
				1 3/8" Z21		1704064
5	PRESSURE DISC	-	1	-	-	1134011
6		4	1	-	750	1216912
		5			900	1216914
		4				
		5			1200	1216911
7	CLOSING FLANGE	-	1	-	-	1134012
8	SPECIAL WASHER Ø14 x Ø8.5 x thickness 2	-	8	-	-	6402901
9	TCEI SCREW 10.9 M8X18 UNI 5931	-	8	-	-	6040818
10	PULL COLLAR KIT AND	-	10	-	-	1004227

4-DISC



				BD4		
Dim.	Mmax [Nm]			1000	1300	1600
	R [mm]			171		
	A [mm]	L [mm]	D	CODE		
5	28	175	1 3/8" Z6	1465703	-	-
			1 3/8" Z21	1465704	-	-
			1 3/8" Z6	-	1465705	-
			1 3/8" Z21	-	1465706	-
			1 3/8" Z6	-	-	1465707
			1 3/8" Z21	-	-	1465708
6	28	182	1 3/8" Z6	1466703	-	-
			1 3/8" Z21	1466704	-	-
			1 3/8" Z6	-	1466705	-
			1 3/8" Z21	-	1466706	-
			1 3/8" Z6	-	-	1466707
			1 3/8" Z21	-	-	1466708
7	28	182	1 3/8" Z6	1467703	-	-
			1 3/8" Z21	1467704	-	-
			1 3/8" Z6	-	1467705	-
			1 3/8" Z21	-	1467706	-
			1 3/8" Z6	-	-	1467707
			1 3/8" Z21	-	-	1467708
8	28	185	1 3/8" Z6	1468703	-	-
			1 3/8" Z21	1468704	-	-
			1 3/8" Z6	-	1468705	-
			1 3/8" Z21	-	1468706	-
			1 3/8" Z6	-	-	1468707
			1 3/8" Z21	-	-	1468708

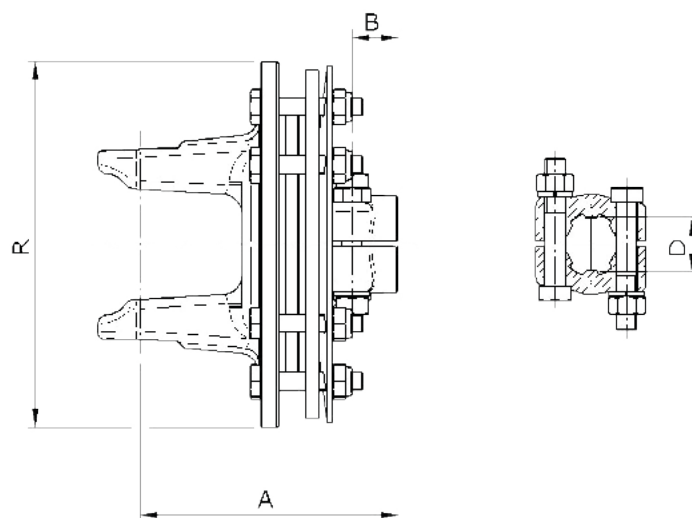
COMPONENTS



						BD4
No.	Description	Dim.	Qty	CALIBRA- TION [Nm]	GROOVING	CODE
1	EXTERNAL BODY	5	1	-	-	1465001
		6				1466001
		7				1467001
		8				1468001
2	RING	-	1	-	-	1705009
3	FRICTION DISC	-	4	-	-	1806010
4	ROTARY FLANGE	-	1	-	-	1136010
5	PRESSURE FLANGE	-	1	-	-	1136008
6	HUB	-		-	1 3/8" Z6	1706085
					1 3/8" Z21	1706086
7	PRESSURE DISC	-	1	-	-	1134011
8	SPRING KIT	5	1	1000	-	1216913
		6		1300	-	1216906
		8		1600	-	1216914
9	CLOSING FLANGE		1	-	-	1134012
10	SPECIAL WASHER Ø14 x Ø8.5 x thickness 2.8		8	-	-	6402901
11	TCEI SCREW 10.9 M8X18 UNI 5931		8	-	-	6040818
12	PULLCOLLAR KIT AND		1	-	-	1004227

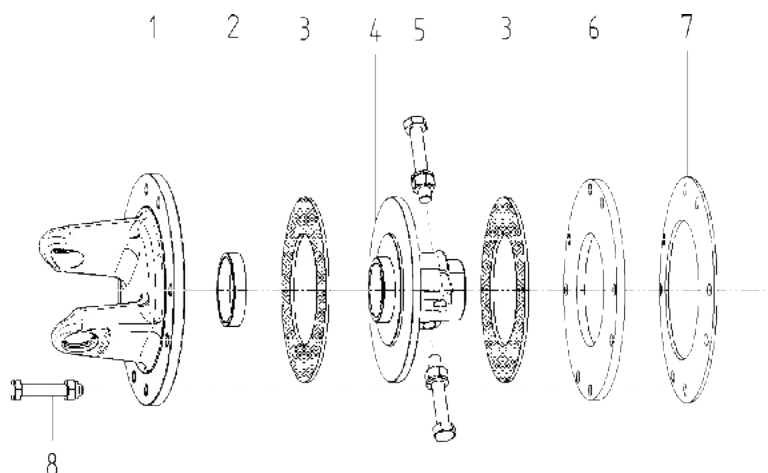
6.3 FT-A

2-DISC



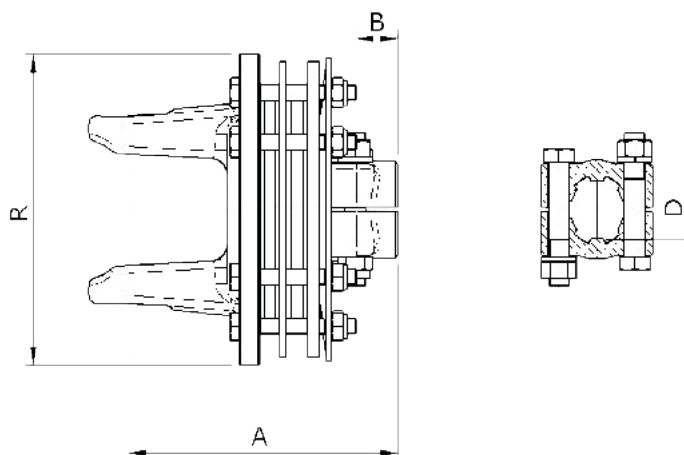
				FT-A1	FT-A2
Dim.	Mmax [Nm]			900	1200
	R [mm]			180	200
	A [mm]	B [mm]	D	CODE	
4	138	27	1 3/8" Z6	1344418	-
			1 3/8" Z21	1344421	-
5	144	27	1 3/8" Z6	1345418	1385418
			1 3/8" Z21	1345421	1385421
	151	29	1 3/4" Z6	-	1405418
			1 3/4" Z20	-	1405428
6	151	27	1 3/8" Z6	1346418	1386418
			1 3/8" Z21	1346421	1386421
	158	29	1 3/4" Z6	-	1406418
			1 3/4" Z20	-	1406428
7	151	27	1 3/8" Z6	1347418	1387418
			1 3/8" Z21	1347421	1387421
	158	29	1 3/4" Z6	-	1407418
			1 3/4" Z20	-	1407428
8	159	27	1 3/8" Z6	-	1388418
			1 3/8" Z21	-	1388421
	166	29	1 3/4" Z6	-	1408418
			1 3/4" Z20	-	1408428

COMPONENTS



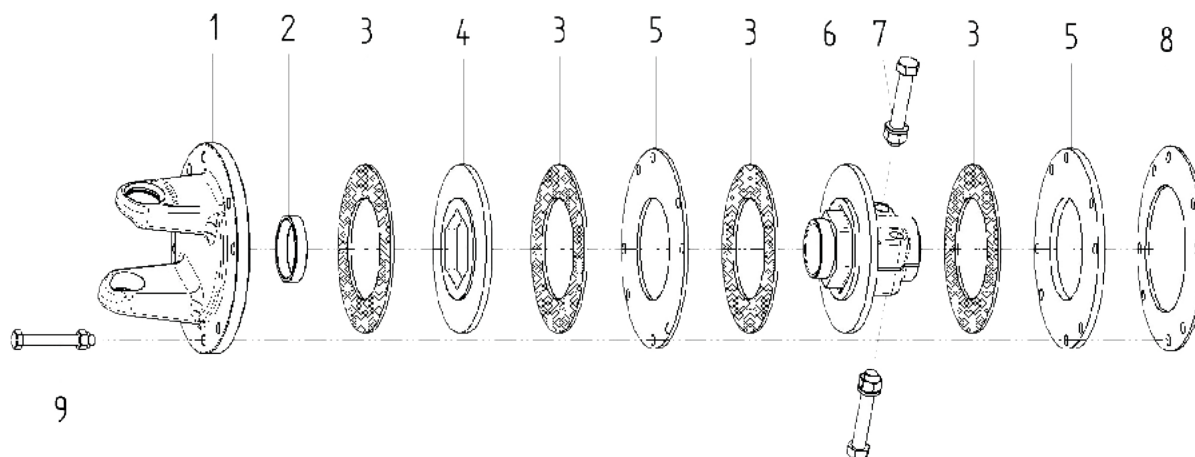
No.	Description	Dim.	Ø [mm]	D	Qty	FT-A1	Ø [mm]	Qty	FT-A2
1	FLANGE FT-A	4	-	-	1	1704006	-	1	-
		5				1705006			1705041
		6				1706005			1706033
		7				1707005			1707033
		8				-			1708006
2	FT-A1/FT-A2 BEARING	-	-	-	1	1705009	-	-	1705009
3	FRICTION DISC FT-A	-	140	-	2	1805010	160	2	1808010
4	HUB FT-A	-	-	1 3/8" Z6	1	1705005	-	1	1708005
				1 3/8" Z21		1705047			1708121
				1 3/4" Z6		-			1708014
				1 3/4" Z20		-			1706314
5	HUB BOLT KIT FT-A1/A2	-	M12x70	1 3/8"	2	6761270	-	2	6761270
			M14x80	1 3/4"		6761480			6761480
6	PRESSURE PLATE FT-A	-	-	-	1	1138043	-	1	1138047
7	FT-A CUP SPRING	-	-	-	1	1216201	-	1	1216301
8	BOLT WITH NUT FT-A	-	M10x60		8	6691060	-	8	6691060

4-DISC



				FT-A3	FT-A4
Dim.	Mmax [Nm]			1500	2200
	R [mm]			180	200
	A [mm]	B [mm]	D	CODE	
4	156	27	1 3/8" Z6	1424430	-
			1 3/8" Z21	1424434	-
5	162	27	1 3/8" Z6	1425430	-
			1 3/8" Z21	1425435	-
	169	29	1 3/4" Z6	1445431	-
			1 3/4" Z20	1445441	-
6	169	27	1 3/8" Z6	1426430	1466430
			1 3/8" Z21	1426435	1466435
	176	29	1 3/4" Z6	1446431	1446432
			1 3/4" Z20	1446417	1446437
7	169	27	1 3/8" Z6	1427430	1467430
			1 3/8" Z21	1427435	1467435
	176	29	1 3/4" Z6	1447431	1447432
			1 3/4" Z20	1447417	1447437
8	177	27	1 3/8" Z6	1428430	1468431
			1 3/8" Z21	1428435	1468444
	184	29	1 3/4" Z6	1428431	1448432
			1 3/4" Z20	1448417	1448434
10	174	27	1 3/8" Z6	-	146T428
			1 3/8" Z21	-	146T430
	181	29	1 3/4" Z6	-	144T432
			1 3/4" Z20	-	144T434

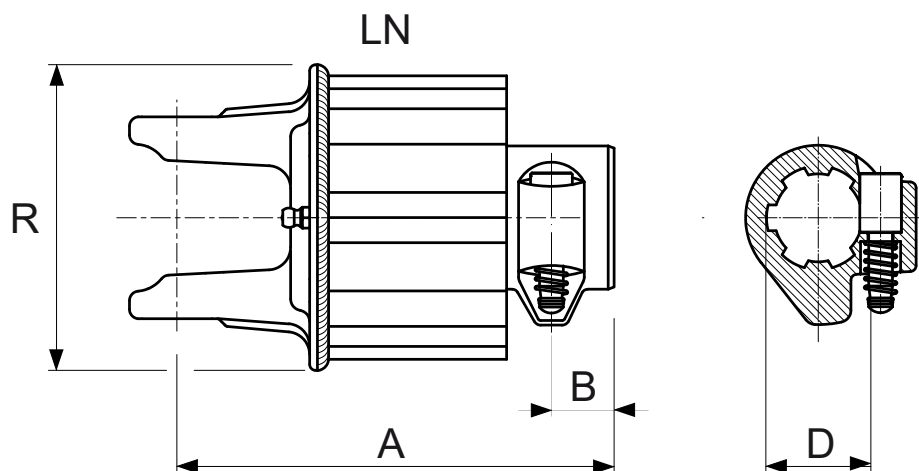
COMPONENTS



No.	Description	Dim.	Ø [mm]	D	Qty	FT-A3	Ø [mm]	Qty	FT-A4
1	FLANGE FT-A	4	-	-	1	1704006	-	1	-
		5				1705006			1705041
		6				1706005			1706033
		7				1707005			1707033
		8				1708011			1708006
		10				-			170T006
2	FT-A3/FT-A4 BEARING	-	-	-	1	1705009	-	1	1705009
3	FRICTION DISC FT-A	-	140	-	4	1805010	160	4	1808010
4	HUB DISC FT-A	-	-	-	1	1705033	-	1	1708034
5	PRESSURE PLATE FT-A	-	-	-	2	1138043	-	2	1138047
6	HUB FT-A	-	-	1 3/8" Z6	1	1705032	-	1	1708018
				1 3/8" Z21		1705048			1708021
				1 3/4" Z6		1705049			1708019
				1 3/4" Z20		1705043			1706313
7	HUB BOLT KIT FT-A	-	M12x70	1 3/8"	2	6761270	-	2	6761270
			M14x80	1 3/4"		6761480			6761480
8	FT-A CUP SPRING	-	-	-	1	1216201	-	1	1216301
9	BOLT WITH NUT FT-A	-	M10x80	-	8	6691080	-	8	6691080

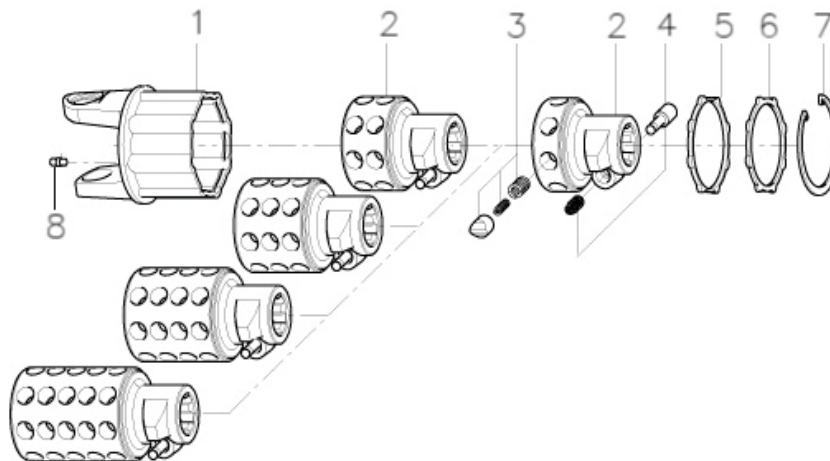
6.4 LN

WITH PAWL



			LN									FILE NO. PAWLS	
Dim.	Mmax [Nm]		380	760	760	1140	1520	1900	1140	1520	1900		
	R [mm]		98		102					118			
	B [mm]		21										
	A [mm]	D	CODE										
2	122	1 3/8" Z6	1602250	-	-	-	-	-	-	-	-	1	
		1 3/8" Z21	1602251	-	-	-	-	-	-	-	-		
	142	1 3/8" Z6	-	1622250	-	-	-	-	-	-	-	2	
		1 3/8" Z21	-	1622251	-	-	-	-	-	-	-		
4	153	1 3/8" Z6	-	-	1624250	-	-	-	-	-	-	3	
		1 3/8" Z21	-	-	1624251	-	-	-	-	-	-		
	173	1 3/8" Z6	-	-	-	1644250	-	-	-	-	-	4	
		1 3/8" Z21	-	-	-	1644251	-	-	-	-	-		
	193	1 3/8" Z6	-	-	-	-	1664250	-	-	-	-	5	
		1 3/8" Z21	-	-	-	-	1664251	-	-	-	-		
5	157	1 3/8" Z6	-	-	1625250	-	-	-	-	-	-	2	
		1 3/8" Z21	-	-	1625251	-	-	-	-	-	-		
	177	1 3/8" Z6	-	-	-	1645250	-	-	-	-	-	3	
		1 3/8" Z21	-	-	-	1645251	-	-	-	-	-		
	197	1 3/8" Z6	-	-	-	-	1665250	-	-	-	-	4	
		1 3/8" Z21	-	-	-	-	1665251	-	-	-	-		
	217	1 3/8" Z6	-	-	-	-	-	1685250	-	-	-	5	
		1 3/8" Z21	-	-	-	-	-	1685250	-	-	-		
6	184	1 3/8" Z6	-	-	-	-	-	-	1646250	-	-	3	
		1 3/8" Z21	-	-	-	-	-	-	1645251	-	-		
	204	1 3/8" Z6	-	-	-	-	-	-	-	1666250	-	4	
		1 3/8" Z21	-	-	-	-	-	-	-	1666251	-		
	224	1 3/8" Z6	-	-	-	-	-	-	-	-	1686250	5	
		1 3/8" Z21	-	-	-	-	-	-	-	-	1686251		
7	204	1 3/8" Z6	-	-	-	-	-	-	-	1667250	-	4	
		1 3/8" Z21	-	-	-	-	-	-	-	1667251	-		
	224	1 3/8" Z6	-	-	-	-	-	-	-	-	1687250	5	
		1 3/8" Z21	-	-	-	-	-	-	-	-	1687251		

COMPONENTS

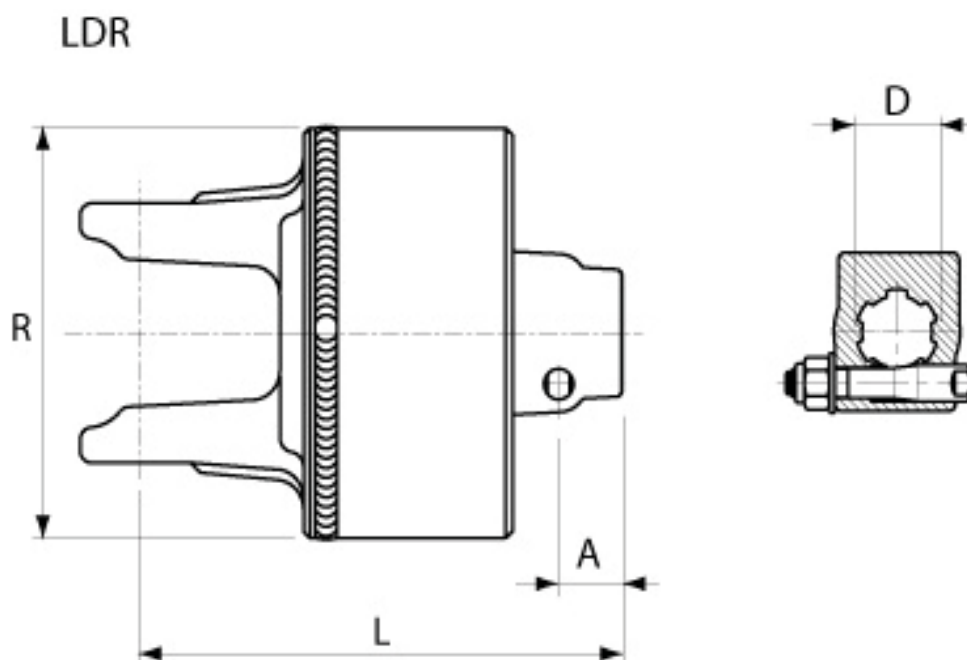


No.	Description	Dim.	Qty	GROOVINGS	LN
1	EXTERNAL BODY LN1*	1	1		1601248
		2			1602248
	EXTERNAL BODY LN2*	2			1622248
		4			1624248
		5			1625248
	EXTERNAL BODY LN3*	4			1644248
		5			1645248
		6			1646248
	EXTERNAL BODY LN4*	4			1664248
		5			1665248
		6			1666248
		7			1667248
	EXTERNAL BODY LN5*	5			1685248
		6			1686248
		7			1687248
2	PAWL KIT LN1*	-	8	-	1601146
	PAWL KIT LN2*		16		
	PAWL KIT LN3*		24		
	PAWL KIT LN4*		32		
	PAWL KIT LN5*		40		
4	BUTTON KIT	-	1	-	1581038
5	DUST RING	-	1	-	1781226
6	CLOSING RING	-	1	-	1131225
7	ELASTIC RING	-	1	-	6320080
8	STRAIGHT GREASE NIPPLE M6	-	1	-	6560006

*LN1,...,5 - INDICATES THE NUMBER OF PAWL FILES PRESENT ON THE RELATIVE COMPONENT

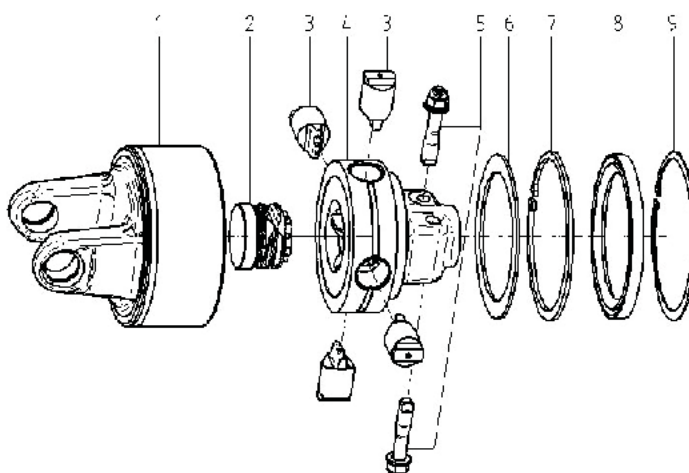
6.5 LDR

CAM TYPE



				LDR						
Dim.	Mmax [Nm]			1600	2000	2500	3000	3500	4000	4500
	R [mm]			170						
	A [mm]	L [mm]	D	CODE						
4	27	190	1 3/8" Z6	1714205	1714305	-	-	-	-	-
			1 3/8" Z21	1714206	1714306	-	-	-	-	-
5		196	1 3/8" Z6	1715205	1715305	-	-	-	-	-
			1 3/8" Z21	1715206	1715306	-	-	-	-	-
6		203	1 3/8" Z6	-	1716305	1716405	-	-	-	-
			1 3/8" Z21	-	1716306	1716406	-	-	-	-
	29	203	1 3/4" Z6	-	1716307	1716407	-	-	-	-
			1 3/4" Z20	-	1716308	1716408	-	-	-	-
7	27	203	1 3/8" Z6	-	-	1717405	1717505	-	-	-
			1 3/8" Z21	-	-	1717406	1717506	-	-	-
	29	203	1 3/4" Z6	-	-	1717407	1717507	-	-	-
			1 3/4" Z20	-	-	1717408	1717508	-	-	-
8	27	210	1 3/8" Z6	-	-	1718405	1718505	1718605	-	-
			1 3/8" Z21	-	-	1718406	1718506	1718606	-	-
	29	210	1 3/4" Z6	-	-	1718407	1718507	1718607	-	-
			1 3/4" Z20	-	-	1718408	1718508	1718608	-	-
10	27	210	1 3/8" Z6	-	-	-	171T505	171T605	171T705	-
			1 3/8" Z21	-	-	-	171T506	171T606	171T706	-
	29	210	1 3/4" Z6	-	-	-	171T507	171T607	171T707	-
			1 3/4" Z20	-	-	-	171T508	171T608	171T708	-
12	29	228.5	1 3/4" Z6	-	-	-	-	-	17112707	17112807
			1 3/4" Z20	-	-	-	-	-	17112708	17112808
	33	245	2 1/4" Z22	-	-	-	-	-	17112709	17112809
14	29	228.5	1 3/4" Z6	-	-	-	-	-	17114707	17114807
			1 3/4" Z20	-	-	-	-	-	17114708	17114808
	33	245	2 1/4" Z22	-	-	-	-	-	17114709	17114809

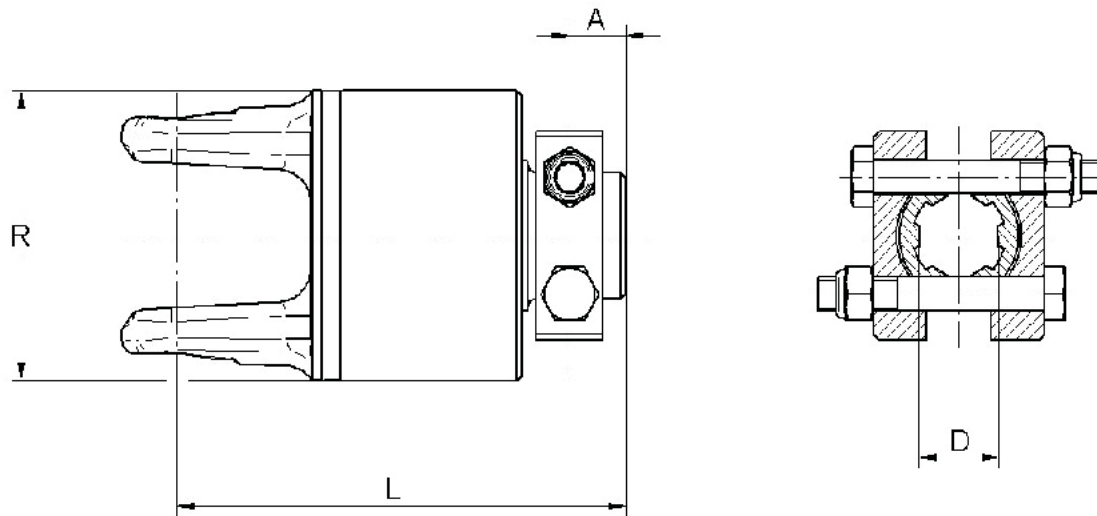
COMPONENTS



No.	Description	Dim.	Qty	GROOVINGS	CALIBRATION [Nm]	CODE
1	EXTERNAL BODY	4	1	-	-	1714010
		5				1715010
		6				1716010
		7				1717010
		8				1718010
		10				171T010
		12				17112010
		14				17114010
2	SPRING PACK	4	1	-	1600	1006114
		5			2000	1006115
		6			2000	1006115
		7			2500	1006116
		8			3000	1006117
		10			3500	1006118
		12			4000	1006119
		14			4500	1006120
3	NIGHTINGALE Ø32	-	4	-	-	1236075
4	HUB ASSEMBLY	-	1	1 3/8" Z6	-	1006172
				1 3/8" Z21		1006173
				1 3/4" Z6		1008172
				1 3/4" Z20		1008173
				2 1/4" Z22		10014174
5	TAPER CLAMP KIT	-	2	1 3/8"	-	6821281
				1 3/4"		6821486
				2 1/4" Z22		6821890
6	INNER RING	-	1	-	-	1136154
7	SEEGER RING	-	1	-	-	6320155
8	OIL SEAL	-	1	-	-	6201215
9	SHOULDER RING	-	1	-	-	6322155

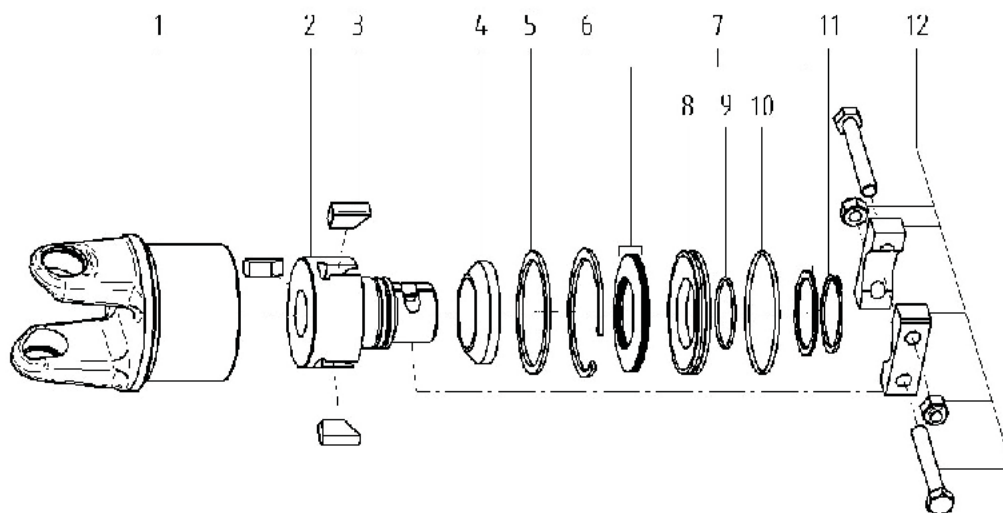
6.6 LDR-K

CAM TYPE



				LDR-K				
Dim.	Mmax [Nm]			600	900	1200	1600	2000
	R [mm]			104.5				
	A [mm]	L [mm]	D	CODE				
2	21	160	1 3/8" Z6	1752123	-	-	-	-
			1 3/8" Z21	1752124	-	-	-	-
4		168	1 3/8" Z6	1754123	1754124	1754126	-	-
			1 3/8" Z21	1754323	1754324	1754326	-	-
5		171	1 3/8" Z6	-	1755124	1755126	-	-
			1 3/8" Z21	-	1755324	1755326	-	-
			1 3/4" Z6	-	-	-	1755128	-
			1 3/4" Z20	-	-	-	1755328	-
6		181	1 3/8" Z6	-	-	1756126	1756128	1756130
			1 3/8" Z21	-	-	1756326	1756328	1756330
7			1 3/8" Z6	-	-	1757126	1757128	1757130
			1 3/8" Z21	-	-	1757326	1757328	1757330

COMPONENTS



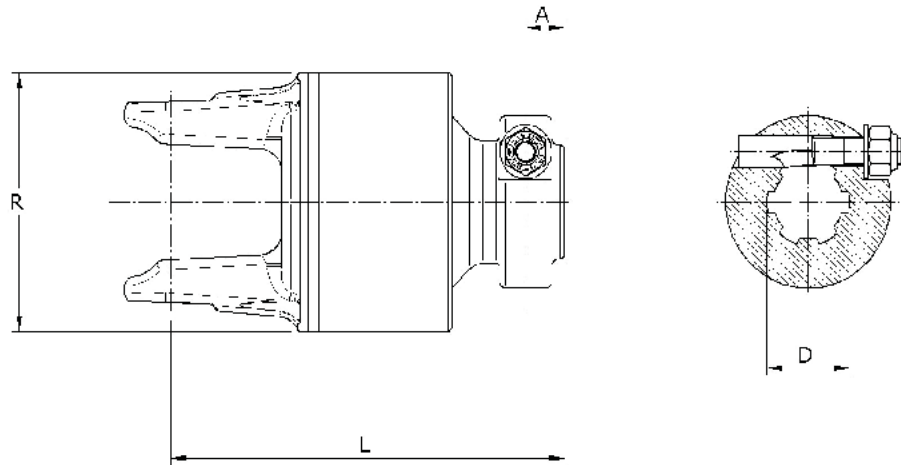
No.	Description	Dim.	Qty	GROOVINGS	CALIBRATION [Nm]	CODE
1	EXTERNAL BODY	2	1	-	-	1752010
		4				1754010
		5				1755010
		6				1756010
		7				1757010
2	HUB	-	1	1 3/8" Z6	-	1204112
				1 3/8" Z21		1204113
3	PAWL LDR-K	-	3	-	-	1236057
4	CONICAL RING	-	1	-	-	1136056
5	INNER RING	-	1	-	-	1136052
6	INNER SEEGER RING	-	1	-	-	6320095
7	SPRINGS KIT	2 4	1	-	600	1007206
		4 5			900	1007209
		4 5 6 7			1200	1007212
		5 6 7			1600	1007216
		6 7			2000	1007220
8	OUTER RING	-	1	-	-	1136050

9	O-RING Ø50	-	1	-	-	69305417
10	O-RING Ø88	-	1	-	-	69309417
11	OUTER SEEGER RING	-	1	-	-	6321054
12	BRIDGE CLAMP KIT 1 3/8"	-	1	-	-	6821070



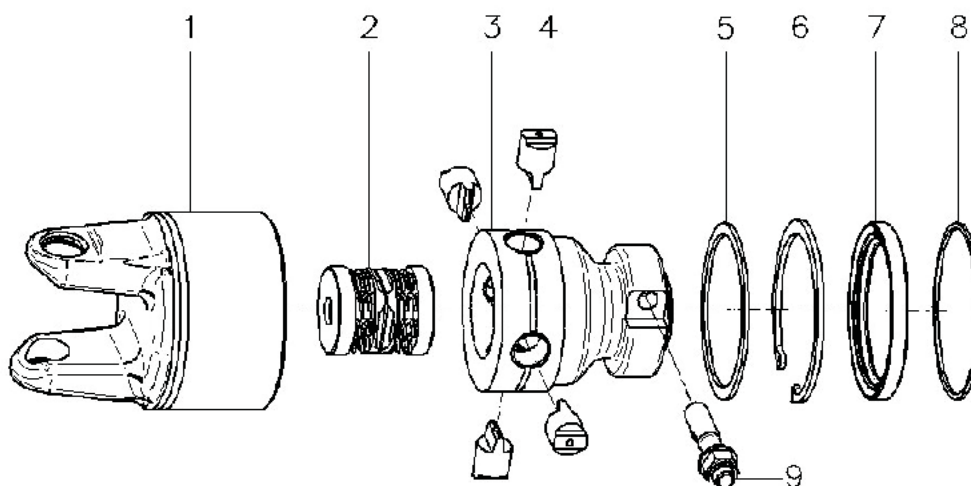
6.7 LDR-M

CAM TYPE



				LDR-M					
Dim.	Mmax [Nm]			1000	1200	1500	1700	2000	2200
	R [mm]			134					
	A [mm]	L [mm]	D	CODE					
4	21	200	1 3/8" Z6	1754511	1754521	-	-	-	-
			1 3/8" Z21	1754512	1754522	-	-	-	-
5		206	1 3/8" Z6	-	1755521	1755531	-	-	-
			1 3/8" Z21	-	1755522	1755532	-	-	-
6		213	1 3/8" Z6	-	-	1756531	1756541	1756551	-
			1 3/8" Z21	-	-	1756532	1756542	1756552	-
			1 3/4" Z6	-	-	1756533	1756543	1756553	-
			1 3/4" Z20	-	-	1756534	1756544	1756554	-
7		213	1 3/8" Z6	-	-	-	1757541	1757551	1757561
			1 3/8" Z21	-	-	-	1757542	1757552	1757562
			1 3/4" Z6	-	-	-	1757543	1757553	1757563
			1 3/4" Z20	-	-	-	1757544	1757554	1757564

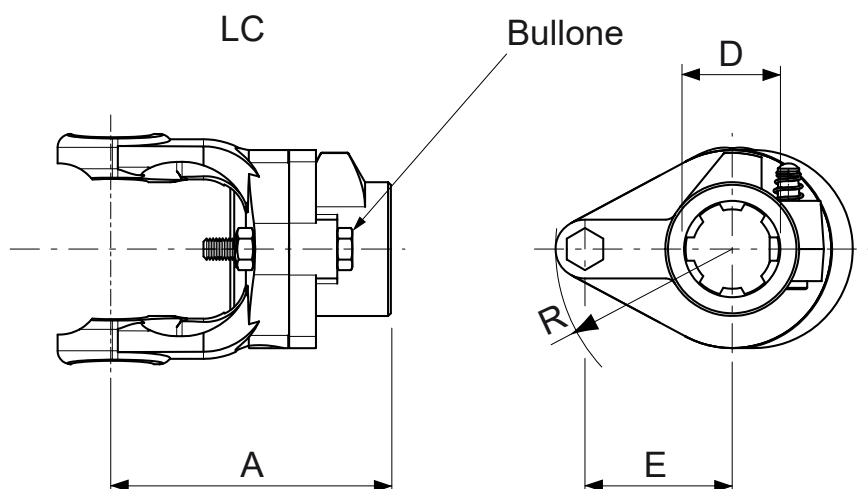
COMPONENTS



No.	Description	Dim.	Qty	GROOVINGS	CALIBRATION [Nm]	CODE
1	EXTERNAL BODY	4	1	-	-	1714010
		5				1715010
		6				1716010
		7				1717010
2	SPRING PACK	4	1	-	1000	1006410
		4			1200	1006412
		5			1500	1006415
		6				
		6			1700	1006417
		7			2000	1006420
		7				
3	HUB ASSEMBLY	-	1	1 3/8" Z6	-	1005171
				1 3/8" Z21		1005172
				1 3/4" Z6		1005173
				1 3/4" Z20		1005174
4	PAWL Ø25	-	4	-	-	1236085
5	INNER RING	-	1	-	-	1136120
6	SEEGER RING	-	1	-	-	6320120
7	OIL SEAL	-	1	-	-	6209012
8	SHOULDER RING	-	1	-	-	6323120
9	CONICAL CLAMP KIT	-	1	1 3/8"	-	6821281
				1 3/4"		6821486

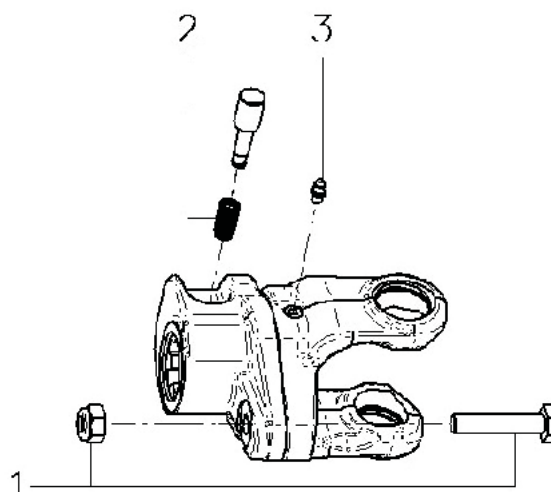
6.8 LC

BOLTED



				LC								
Dim.	Mmax [Nm]			900	1700	2100	2500	3000	3500	4500	5500	7800
	E [mm]			48	55	46	55	49	57	49	60	65
	R [mm]				68			78			95	
	A [mm]	B [mm]	D									
2	113	21	1 3/8" Z6	1482037	-	-	-	-	-	-	-	-
			1 3/8" Z21	1482034	-	-	-	-	-	-	-	-
4	121	21	1 3/8" Z6	-	1484037	-	-	-	-	-	-	-
			1 3/8" Z21	-	1484034	-	-	-	-	-	-	-
5	123	21	1 3/8" Z6	-	-	1485037	-	-	-	-	-	-
			1 3/8" Z21	-	-	1485034	-	-	-	-	-	-
6	137	21	1 3/8" Z6	-	-	-	1486037	-	-	-	-	-
			1 3/8" Z21	-	-	-	1486034	-	-	-	-	-
	142	24	1 3/4" Z6	-	-	-	1496237	-	-	-	-	-
			1 3/4" Z20	-	-	-	1496234	-	-	-	-	-
7	137	21	1 3/8" Z6	-	-	-	-	1487037	-	-	-	-
			1 3/8" Z21	-	-	-	-	1487034	-	-	-	-
	142	24	1 3/4" Z6	-	-	-	-	1497237	-	-	-	-
			1 3/4" Z20	-	-	-	-	1497234	-	-	-	-
8	146	21	1 3/8" Z6	-	-	-	-	-	1488037	-	-	-
			1 3/8" Z21	-	-	-	-	-	1488034	-	-	-
	151	24	1 3/4" Z6	-	-	-	-	-	1498237	-	-	-
			1 3/4" Z20	-	-	-	-	-	1498234	-	-	-
10	167	21	1 3/8" Z6	-	-	-	-	-	-	148T037	-	-
			1 3/8" Z21	-	-	-	-	-	-	148T034	-	-
	172	21	1 3/4" Z6	-	-	-	-	-	-	149T237	-	-
			1 3/4" Z20	-	-	-	-	-	-	149T234	-	-
12	198	25	1 3/4" Z6	-	-	-	-	-	-	-	14912237	-
			1 3/4" Z20	-	-	-	-	-	-	-	14912234	-
	210	37	2 1/4" Z22	-	-	-	-	-	-	-	14912239	-
14	198	25	1 3/4" Z6	-	-	-	-	-	-	-	-	14914237
			1 3/4" Z20	-	-	-	-	-	-	-	-	14914234
	210	37	2 1/4" Z22	-	-	-	-	-	-	-	-	14914239

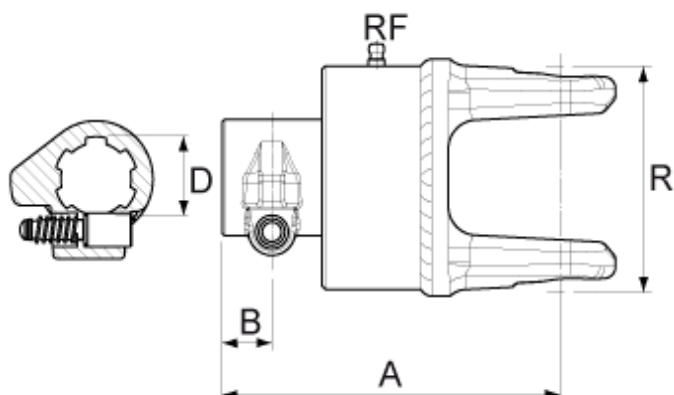
COMPONENTS



No.	Description	GROOVINGS	Dim.	BOLT	Qty	CODE
1	BOLT KIT (CL.8.8)	-	2	M6X40	1	6690640
			4	M8X45		6690845
			5	M10X50		6691050
			6	M10X55		6691055
			7	M12x60		6691260
			8	M12x65		6691265
			10	M14x65		6691465
			12	M14x80		6691480
			14	M16x80		6691680
2	BUTTON KIT	1 3/8"	2 4 6	-	1	1581037
		1 3/8"	6 7 8 10	-	2	
		1 3/4"	6 7 8 10	-	2	
	CONICAL CLAMP KIT	1 3/4"	12 14	-	2	6821486
			12 14	-	2	6821890
		2 1/4"	12 14	-	2	6821890
3	STRAIGHT GREASE NIPPLE	-	-	M6	1	6560006

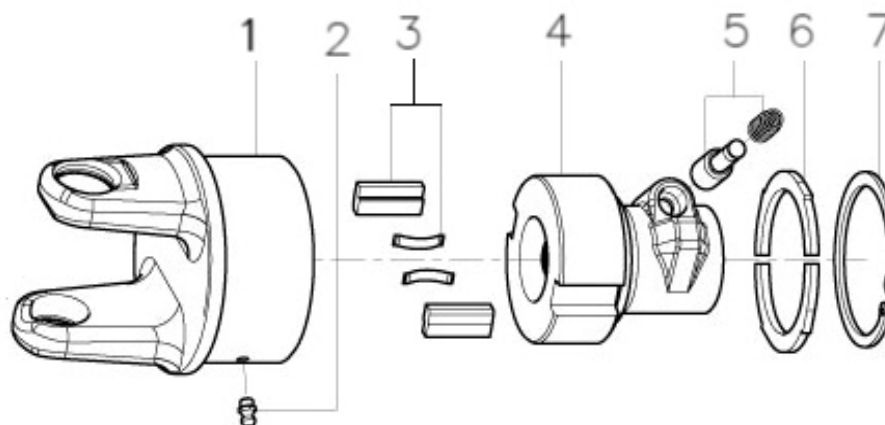
6.9 RF

BUTTON WITH FREEWHEEL



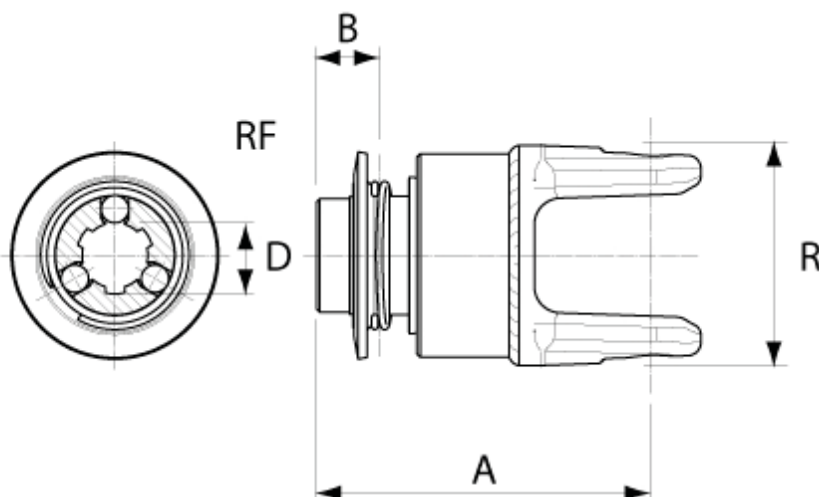
					RF1	RFI1	RF2	RFI2	RF3	RFI3	
Dim.	Mmax [Nm]				1600		2400		4000		
	A [mm]	B [mm]	R [mm]	D	CODE						
2	138	21	98	1 3/8" Z6	1502260	1502261	-	-	-	-	
				1 3/8" Z21	1502262	1502263	-	-	-	-	
4	145		102	1 3/8" Z6	1504260	1504261	-	-	-	-	
				1 3/8" Z21	1504262	1504263	-	-	-	-	
5	159			1 3/8" Z6	-	-	1744260	1744261	-	-	
				1 3/8" Z21	-	-	1744262	1744263	-	-	
6	148			1 3/8" Z6	1505260	1505261	-	-	-	-	
				1 3/8" Z21	1505262	1505263	-	-	-	-	
7	162			1 3/8" Z6	-	-	1745260	1745261	-	-	
				1 3/8" Z21	-	-	1745252	1745263	-	-	
8	158		120	1 3/8" Z6	1506260	1506261	-	-	-	-	
				1 3/8" Z21	1506262	1506263	-	-	-	-	
9	172			1 3/4" Z6	-	-	1746260	1746261	-	-	
				1 3/4" Z6	-	-	1746262	1746263	-	-	
10	172			1 3/8" Z6	-	-	1747260	1747261	-	-	
				1 3/8" Z21	-	-	1747262	1747263	-	-	
11	196			124	1 3/8" Z6	-	-	1748260	1748261	-	-
					1 3/8" Z21	-	-	1748262	1748263	-	-
12	218		1 3/8" Z6		-	-	-	-	1768260	-	
			1 3/8" Z21		-	-	-	-	1768262	-	
13	212		127	1 3/8" Z6	-	-	-	-	-	1768261	
				1 3/8" Z21	-	-	-	-	-	1768263	
14	225		140	1 3/8" Z6					176T260	176T261	
				1 3/8" Z21					176T262	176T263	

COMPONENTS



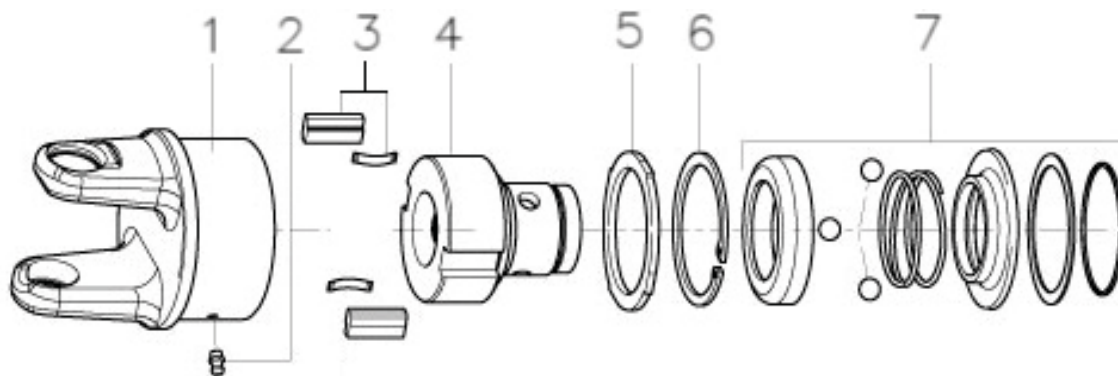
					RF1	RFI1	RF2	RFI2	RF3	RFI3
No.	Description	Dim.	GROOVINGS	Qty	CODE					
1	EXTERNAL BODY	2	-	1	1502240	1502241	-	-	-	-
		4			1504240	1504241	1744240	1744241	-	-
		5			1505240	1505241	1745240	1745241	-	-
		7			-	-	1747240	1747241	-	-
		6			1606240	1506241	1746240	1746241	-	-
		8			-	-	1748240	1748241	1768240	1768241
		10			-	-	-	-	176T240	176T241
2	STRAIGHT GREASE NIP- PLE M6	-	-	1	6560006					
3	RF1-RFI1 STUD + FLAT SPRING KIT	-	-	2	1506000		-		-	
	RF2-RFI2 STUD + FLAT SPRING KIT	-	-	2	-		1748000		-	
	RF3-RFI3 STUD + FLAT SPRING KIT	-	-	2	-		-		1760000	
4	HUB	-	1 3/8" Z6	1	1506132		1748132		1760132	
			1 3/8" Z21		1506133		1748133		1760133	
5	BUTTON KIT	-	-	1	1581038					
6	SEALING HALF-RING	-	-	2	1133011					
7	SEEGER FOR HOLE Ø75	-	-	1	6320075					

PULL COLLAR WITH FREE WHEEL



					RF1	RFI1	RF2	RFI2	RF3	RFI3
Dim.	Mmax [Nm]				1600		2400		4000	
	A [mm]	B [mm]	R [mm]	D	CODE					
2	142	28.5	98	1 3/8" Z6	1502250	1502251	-	-	-	-
				1 3/8" Z21	1502252	1502253	-	-	-	-
4	149	28.5	102	1 3/8" Z6	1504250	1504251	-	-	-	-
				1 3/8" Z21	1504252	1504253	-	-	-	-
	163	28.5		1 3/8" Z6	-	-	1744250	1744251	-	-
				1 3/8" Z21	-	-	1744252	1744253	-	-
5	152	28.5		1 3/8" Z6	1505250	1505251	-	-	-	-
				1 3/8" Z21	1505252	1505253	-	-	-	-
	166	28.5		1 3/8 Z6	-	-	1745250	1745251	-	-
				1 3/8 Z21	-	-	1745252	1745253	-	-
6	162	28.5	120	1 3/8" Z6	1506250	1506251	-	-	-	-
				1 3/8" Z21	1506252	1506253	-	-	-	-
	175	28.5		1 3/8" Z6	-	-	1746250	1746251	-	-
				1 3/8" Z21	-	-	1746252	1746253	-	-
	198	28.5		1 3/4" Z6	-	-	1746254	1746255	-	-
				1 3/4" Z20	-	-	1746256	1746257	-	-
7	175	28.5		1 3/8" Z6	-	-	1747250	1747251	-	-
				1 3/8" Z21	-	-	1747252	1747253	-	-
	198	28.5		1 3/4" Z6	-	-	1747254	1747255	-	-
				1 3/4" Z20	-	-	1747256	1747257	-	-
8	206	28.5	124	1 3/8" Z6	-	-	1748250	1748251	-	-
				1 3/8" Z21	-	-	1748252	1748253	-	-
	226	28.5		1 3/4" Z6	-	-	1748254	1748255	-	-
				1 3/4" Z20	-	-	1748256	1748257	-	-
	223	28.5		1 3/8" Z6	-	-	-	-	1768250	1768251
				1 3/8" Z21	-	-	-	-	1768252	1768253
	245	28.5		1 3/4" Z6	-	-	-	-	1768254	1768255
				1 3/4" Z20	-	-	-	-	1768256	1768257
10	234	28.5	140	1 3/8" Z6	-	-	-	-	176T250	176T251
				1 3/8" Z21					176T252	176T253
	256	28.5		1 3/4" Z6	-	-	-	-	176T254	176T255
				1 3/4" Z20					176T256	176T257

COMPONENTS

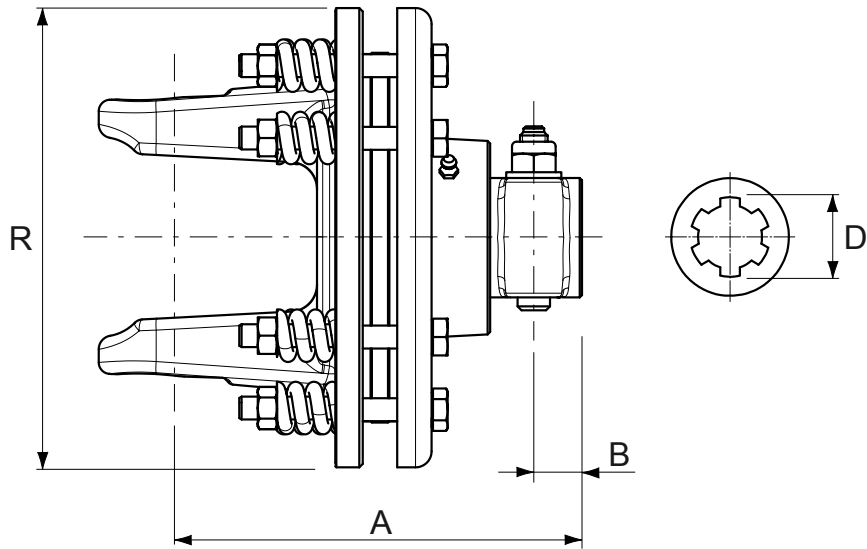


					RF1	RFI1	RF2	RFI2	RF3	RFI3
No.	Description	Dim.	GROOVINGS	Qty	CODE					
1	EXTERNAL BODY	2	-	1	1502240	1502241	-	-	-	-
		4			1504240	1504241	1744240	1744241	-	-
		5			1505240	1505241	1745240	1745241	-	-
		7			-	-	1747240	1747241	-	-
		6			1606240	1506241	1746240	1746241	-	-
		8			-	-	1748240	1748241	1768240	1768241
		10			-	-	-	-	176T240	176T241
2	STRAIGHT GREASE NIPPLE M6	-	-	1	6560006					
3	RF1-RFI1 STUD + FLAT SPRING KIT	-	-	2	1506000		-		-	
	RF2-RFI2 STUD + FLAT SPRING KIT	-	-	2	-		1748000		-	
	RF3-RFI3 STUD + FLAT SPRING KIT	-	-	2	-		-		1760000	
4	HUB	-	1 3/8" Z6	1	1506130		1748130		1760130	
			1 3/8" Z21		1506131		1748131		1760131	
			1 3/4" Z6		-		1748140		1760140	
			1 3/4" Z20		-		1748141		1760141	
5	SEALING HALF-RING	-	-	2	1133011					
6	SEEGER FOR HOLE Ø75	-	-	1	6320075					
7	PULLCOLLAR KIT	-	1 3/8"	1	1004229					
			1 3/4"		1004237					

6.10

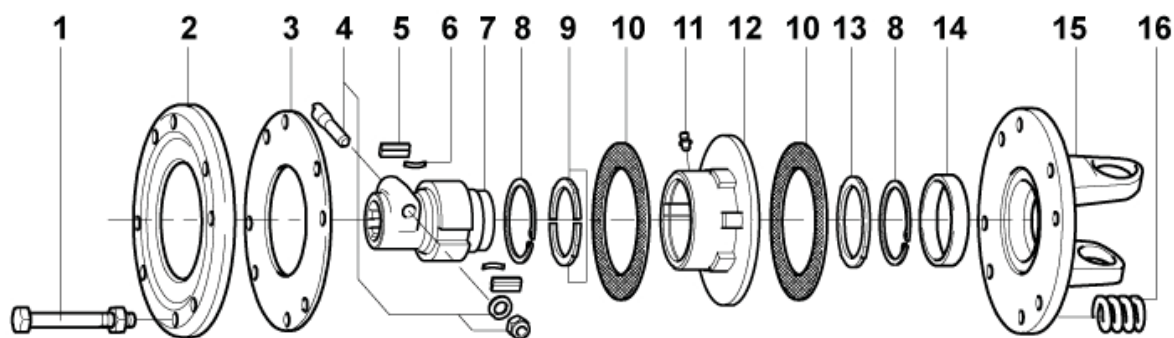
FR

2 DISC WITH CONICAL CLAMP



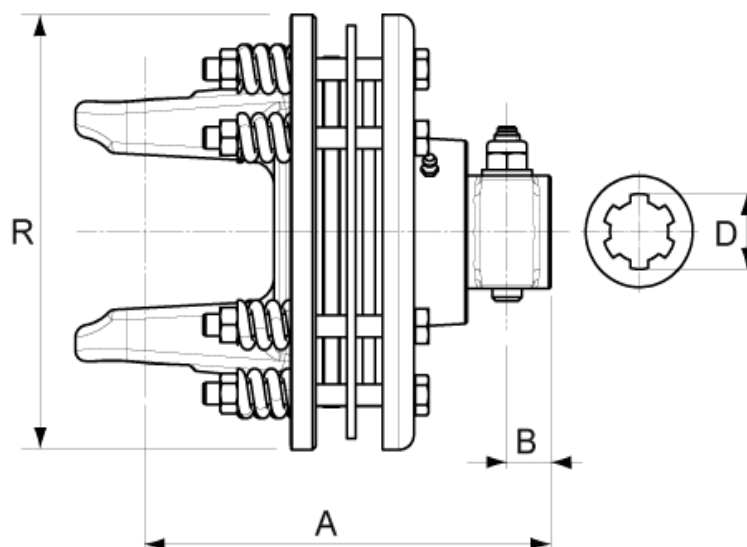
				FR2		FRI2	
Dim.	Mmax [Nm]			1200			
	R [mm]			200			
	A [mm]	B [mm]	D	CODE			
5	187.5	21	1 3/8" Z6	1455280		1455281	
			1 3/8" Z21	1455282		1455283	
6	194.5		1 3/8" Z6	1456280		1456281	
			1 3/8" Z21	1456282		1456283	
7	194.5		1 3/8" Z6	1457280		1457281	
			1 3/8" Z21	1457282		1457283	
8	202.5		1 3/8" Z6	1458280		1458281	
			1 3/8" Z21	1458282		1458283	

COMPONENTS



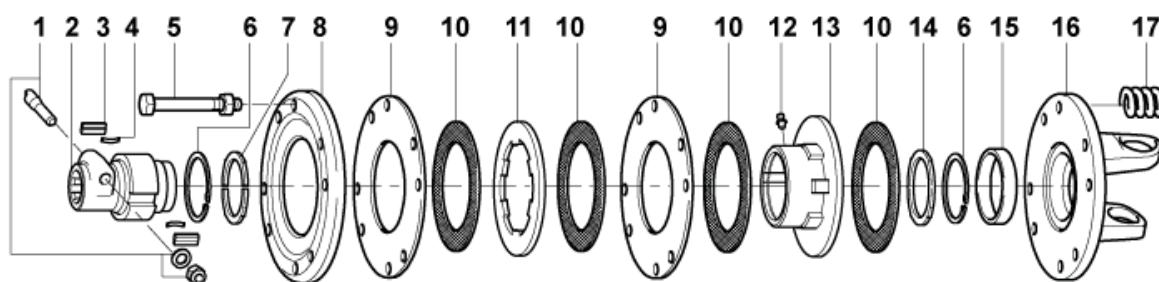
					FR	FRI
No.	Description	Dim.	GROOVINGS	Qty	CODE	
1	COMPLETE BOLT M10X85	-	-	8	6691085	
2	PRESSURE DISC	-	-	1	1138007	
3	INTERNAL DISC	-	-	1	1138008	
4	CONICAL CLAMP KIT	-	-	1	6821271	
5	LUG	-	-	2	1328062	
6	FLAT SPRING	-	-	2	1218001	
7	HUB		1 3/8" Z6	1	1705446	
			1 3/8" Z21		1705447	
8	SEEGER FOR HOLE Ø75	-	-	2	6320075	
9	SHAPED SEALING HALF RING	-	-	2	1133011	
10	FRICTION DISC	-	-	2	1808010	
11	STRAIGHT GREASE NIPPLE M6	-	-	1	6560006	
12	FLANGED OUTER BODY	-	-	1	1590216	1590217
13	SHAPED SEALING RING	-	-	1	1133012	
14	CLUTCH BEARING FD	-	-	1	1705009	
15	FLANGED FORK	5	-	1	1705041	
		6			1706033	
		7			1707033	
		8			1708006	
16	SPRING FOR FD	-	-	8	1215012	

4 DISC WITH CONICAL CLAMP



				FR4	FRI4	
Dim.	Mmax [Nm]			1200		
	R [mm]			200		
	A [mm]	B [mm]	D	CODE		
5	187.5	21	1 3/8" Z6	1455470	1455472	
			1 3/8" Z21	1455471	1455473	
6	194.5		1 3/8" Z6	1456470	1456472	
			1 3/8" Z21	1456471	1456473	
7			1 3/8" Z6	1457470	1457472	
			1 3/8" Z21	1457471	1457473	
8	202.5		1 3/8" Z6	1458470	1458472	
			1 3/8" Z21	1458471	1458473	
10	202		1 3/8" Z6	145T470	145T472	
			1 3/8" Z21	145T471	145T473	

COMPONENTS

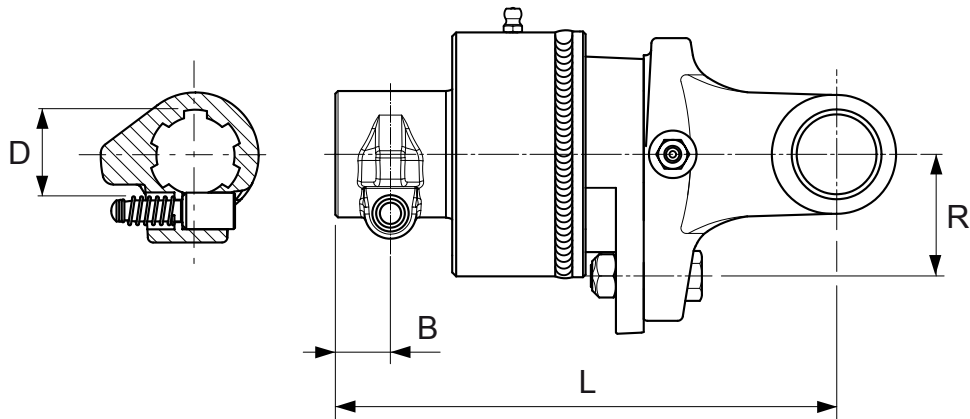


						FR	FRI
No.	Description	Dim.	GROOVINGS	BOLT	Qty	CODE	
1	CONICAL CLAMP KIT	-	-	-	1	6821271	
2	HUB	-	1 3/8 Z6	-	1	1705446	
			1 3/8 Z21			1705447	
3	STUD	-	-	-	2	1328062	
4	FLAT SPRING	-	-	-	2	1218001	
5	COMPLETE BOLT	-	-	M10X100	8	6691010	
6	SEEGER	-	-	-	2	6320075	
7	SEALING HALF-RING	-	-	-	2	1133011	
8	PRESSURE DISC	-	-	-	1	1138007	
9	INTERNAL DISC	-	-	-	2	1138008	
10	FRICTION DISC	-	-	-	4	1808010	
11	INTERMEDIATE DISC LINING HOLDER	-	-	-	1	1135417	
12	STRAIGHT GREASE NIPPLE	-	-	M6	1	6560006	
13	FLANGED OUTER BODY	-	-	-	1	1590216	1590217
14	SHAPED SEALING RING	-	-	-	1	1133012	
15	CLUTCH BEARING FD	-	-	-	1	1705009	
16	FLANGED FORK	5	-	-	1	1705041	
		6				1706033	
		7				1706033	
		8				1708006	
		10				170T006	
17	SPRING FOR FD	-	-	-	8	1215012	

6.11

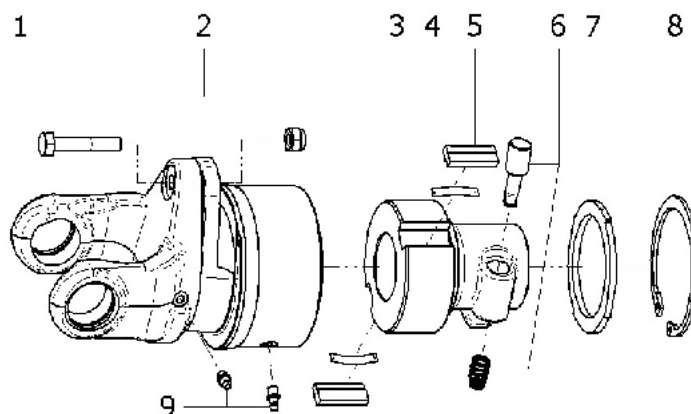
LCRF

WITH LIMITER AND FREEWHEEL



					LCRF		
Dim.	Mmax [Nm]				1700	2500	2100
	R [mm]				55		46
	L [mm]	B [mm]	D	BOLT	CODE		
4	185	21	1 3/8" Z6	M8x45	1414001	-	-
			1 3/8" Z21		1414004	-	-
	188		1 3/8" Z6	M10x45	-	1414003	-
			1 3/8" Z21		-	1414006	-
5	190		1 3/8" Z6		-	-	1415001
			1 3/8" Z21		-	-	1415002
6	197		1 3/8" Z6		-	1416001	-
			1 3/8" Z21		-	1416002	-

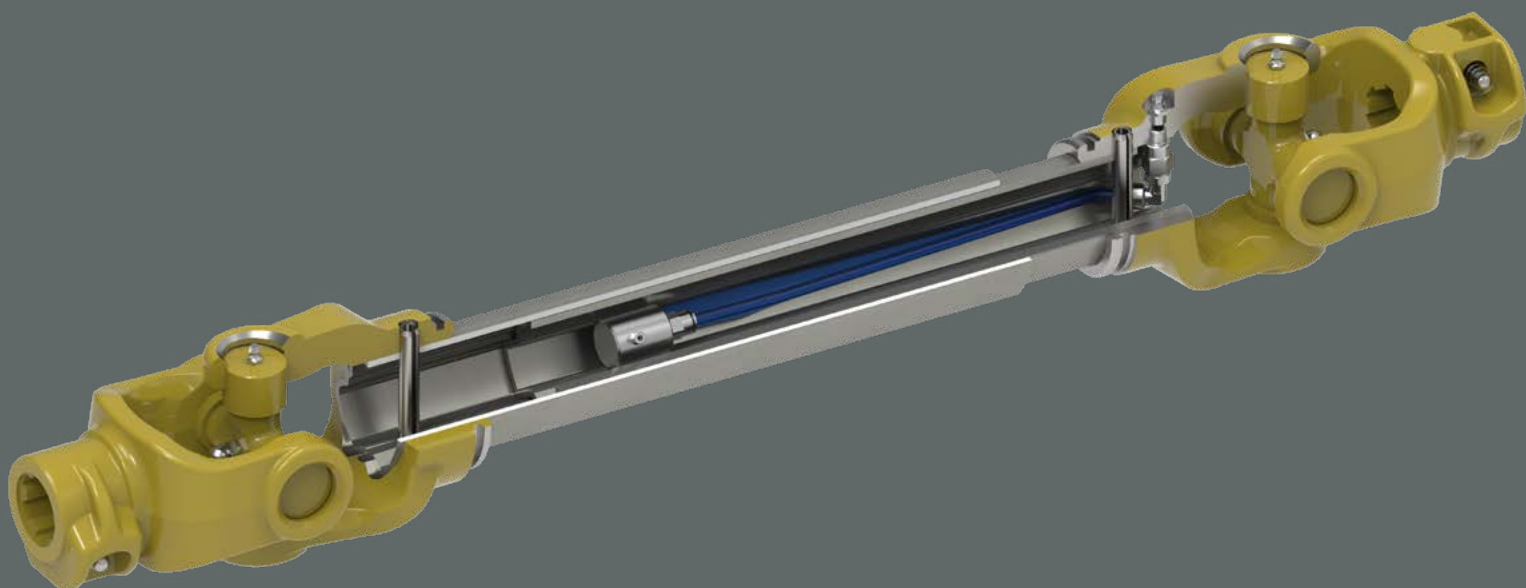
COMPONENTS



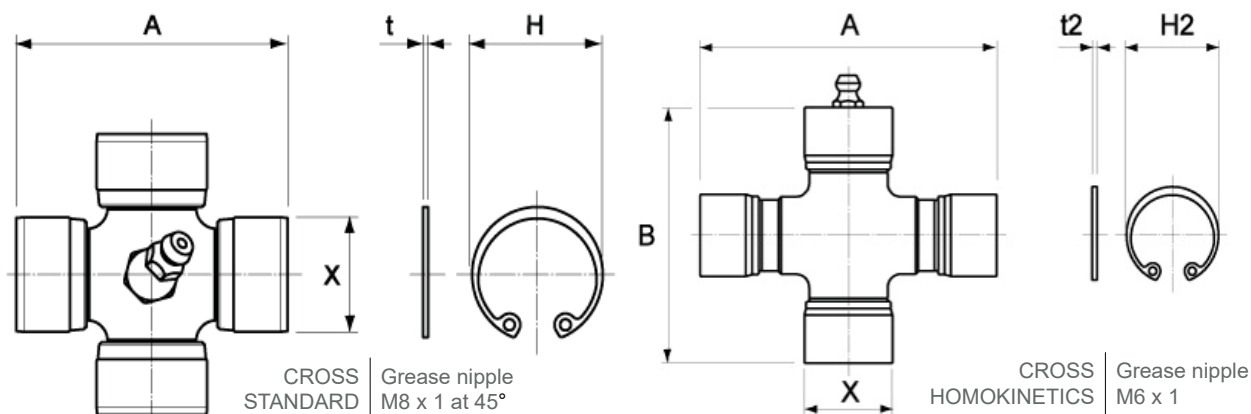
		LCRF					
No.	Description	Dim.	GROOV-INGS	BOLT	WHEELBASE [mm]	Qty	CODE
1	FORK ASSEMBLY+LCRF BODY	4	-	M8	55	1	1414301
				M10			1414303
		5		M10	46	1	1415301
		6		M10		1	1416301
2	BOLT KIT		-	M8x45	55	1	6690845
				M10x45	46	1	6691045
					55	1	
3	RF HUB	-	1 3/8" Z6	-	-	1	1506132
			1 3/8" Z21				1506133
4	FLAT SPRING		-	-	-	2	1215001
5	LUG		-	-	-	2	1326062
6	BUTTON KIT		-	-	-	1	1501038
7	SEALING HALF RING	-	-	-	-	2	1133011
8	SEEGER RING	-	-	-	-	1	6320075
9	STRAIGHT GREASE NIPPLE	-	-	M6	-	2	6560006



7. SPARE PARTS



7.1 CROSSES

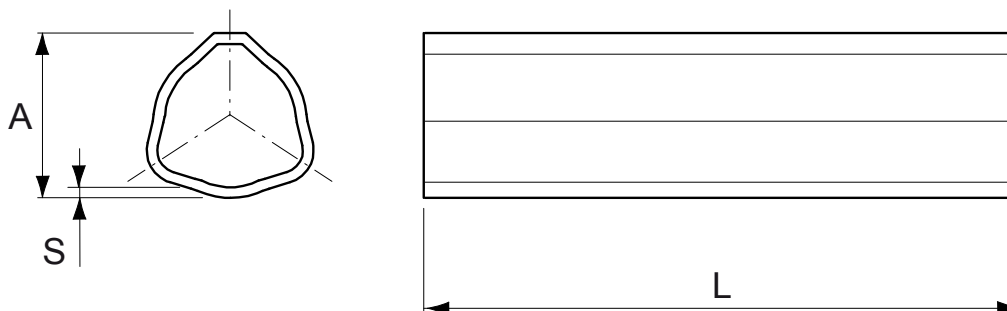


DIM.	CROSS STANDARD	X/Y	T [mm]	H [mm]	CODE	SPARE PART KIT CODE
	A x X					
2	61.5 x 23.8	-	1.2	25.9	1002001	1S02021
4	74.6 x 27	-	1.2	29.1	1S04020	1S04021
5	80 x 30.2	-	1.2	32.1	1S05020	1S05021
6	92 x 30.2	-	1.2	32.1	1S06020	1S06021
7	93.8 x 34.9	-	1.5	37.8	1S07020	1S07021
8	106.4 x 34.9	-	1.5	37.8	1S08020	1S08021
10	118 x 42	-	1.75	46	1S00020	1S0T021
12	135.2 x 47.6	-	-	-	1S012020	1S012021
14	135 x 53	-	-	-	1S014020	1S014021

DIM.	HOMOKINETIC CRUISE	X/Y	T2 [mm]	H2 [mm]	CODE	SPARE PART KIT CODE
	A x B					
2	61.3 x 79.8	23.8	1.2	25.9	1002740	1002741
4	74.6 x 91	27	1.5	29.1	1004740	1004741
6	82 x 100	30.2	1.5	32.1	1006740	1006741
8	88.8 x 106	34.9	1.5	37.8	1008740	1008741
10	117 X 130	42	2	46	1000740	1000741

7.2 TELESCOPIC PARTS

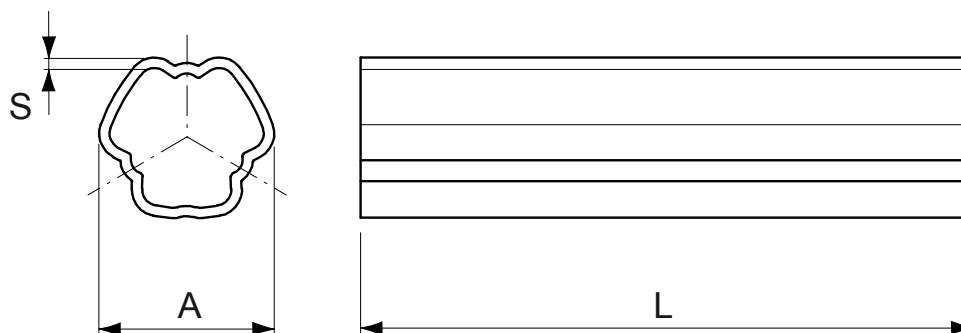
TRILOBATE PROFILE



	TRILOBATED TELESCOPES				
Size	A x S [mm]	L [mm]	TYPE	CODE	CODE WITH PIN HOLE
2	29 x 4	1000	INTERNAL	1522803	1522100
		1500		1522801	1522150
		3000		1522800	-
	36.1 x 3.1	1000	EXTERNAL	1523803	1523100
		1500		1523802	1523150
		3000		1523800	-
4	36.1 x 4.5	1000	INTERNAL	1525803	1525100
		1500		1525801	1525150
		3000		1525800	-
	43.4 x 3.3	1000	EXTERNAL	1524803	1524100
		1500		1524802	1524150
		3000		1524800	-
5	44.7 x 4	1000	INTERNAL	1526803	1526100
		1500		1526801	1526150
		3000		1526800	-
	51.3 x 2.9	1000	EXTERNAL	1527803	1527100
		1500		1527802	1527150
		3000		1527800	-
6	44.7 x 4	1000	INTERNAL	1526803	1526100
		1500		1526801	1526150
		3000		1526800	-
	51.3 x 2.9	1000	EXTERNAL	1528803	1528100
		1500		1528802	1528150
		3000		1528800	-

7	44.7 x 5.5	1000	INTERNAL	1529803	1529100
		1500		1529801	1529150
		3000		1529800	-
	53.6 x 3.8	1000	EXTERNAL	1528803	1528100
		1500		1528802	1528150
		3000		1528800	-
8	53.6 X 3.8	1000	INTERNAL	1528803	1528100
		1500		1528802	1528150
		3000		1528800	-
	62.7 x 4.1	1000	EXTERNAL	1530803	1530100
		1500		1530802	1530150
		3000		1530800	-

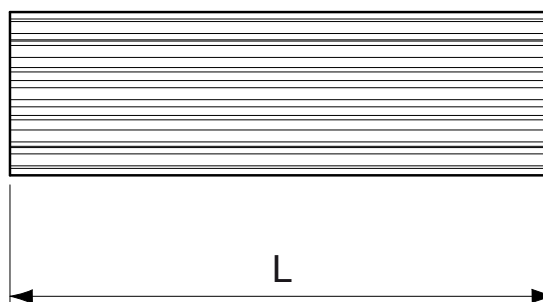
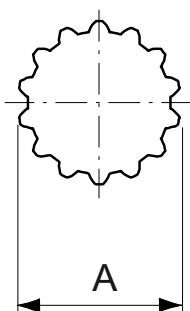
YORK PROFILE



YORK TELESCOPICS						
Size	A x S [mm]	L [mm]	SERIES	TYPE	CODE	CODE WITH PIN HOLE
4	46.7 x 3.5	1000	YEP	INTERNAL	1813803	1813100
		1500			1813802	1813150
		3000			1813800	-
	52.8 x 2.7	1000		EXTERNAL	1814803	1814100
		1500			1814802	1814150
		3000			1814800	-
5	46.7 x 3.5	1000		INTERNAL	1813803	1813100
		1500			1813802	1813150
		3000			1813800	-
	52.8 x 2.7	1000		EXTERNAL	1814803	1814100
		1500			1814802	1814150
		3000			1814800	-
6	53.4 x 4	1000		INTERNAL	1815803	1815100
		1500			1815802	1815150
		3000			1815800	-
	61 x 3.3	1000		EXTERNAL	1816803	1816100
		1500			1816802	1816150
		3000			1816800	-
7	53.4 x 4	1000		INTERNAL	1815803	1815100
		1500			1815802	1815150
		3000			1815800	-
	61 x 3.3	1000		EXTERNAL	1816803	1816100
		1500			1816802	1816150
		3000			1816800	-

8	60.8 x 4	1000	YEP	INTERNAL	1817803	1817100
		1500			1817802	1817150
		3000			1817800	-
	68.3 x 3.4	1000		EXTERNAL	1818803	1818100
		1500			1818802	1818150
		3000			1818800	-
	64.4 x 5	1000	YHP	INTERNAL	1819803	1819100
		1500			1819802	1819150
		3000			1819800	-
	73.9 x 4.4	1000		EXTERNAL	1810803	1810100
		1500			1810804	1810150
		3000			1810800	-
10	64.4 x 5	1000	YEP	INTERNAL	1819803	1819100
		1500			1819802	1819150
		3000			1819800	-
	73.9 x 4.4	1000		EXTERNAL	1810803	1810100
		1500			1810804	1810150
		3000			1810800	-
12	66.7 x 8	1000		INTERNAL	18113803	18113100
		1500			18113802	18113150
		3000			18113800	-
	78.3 x 8	1000		EXTERNAL	18114803	18114100
		1500			18114802	18114150
		3000			18114800	-
14	66.7 x 8	1000		INTERNAL	18113803	18113100
		1500			18113802	18113150
		3000			18113800	-
	78.3 x 8	1000		EXTERNAL	18114803	18114100
		1500			18114802	18114150
		3000			18114800	-

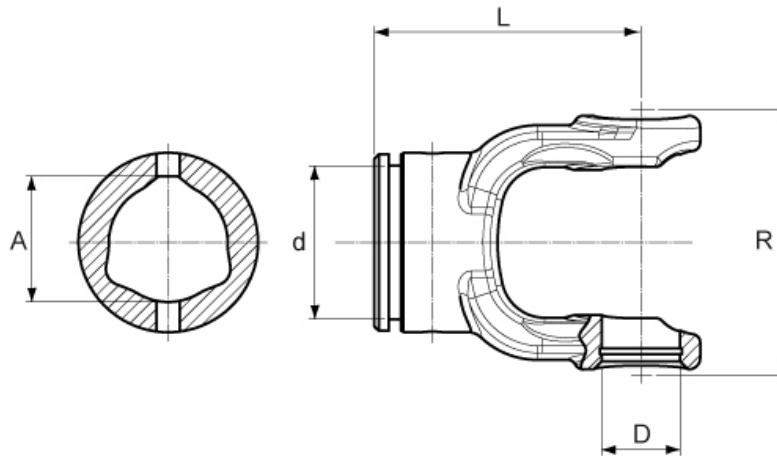
GROOVED PROFILE



	GROOVED TELESCOPES - BX				
Size	A	L [mm]	Z [number of teeth]	CODE	CODE WITH PIN HOLE
4	CUNA 30	1000	10	1304803	1304100
		1500		1304801	1304150
		3000		1304800	-
5	CUNA 35	1000	12	1305803	1305100
		1500		1305801	1305150
		3000		1305800	-
6		1000		1305803	1305100
		1500		1305801	1305150
		3000		1305800	-
7	CUNA 40	1000	14	1306803	1306100
		1500		1306801	1306150
		3000		1306800	-
8		1000		1306803	1306100
		1500		1306801	1306150
		3000		1306800	-
10	CUNA 45	1000	16	1303803	1303100
		1500		1303801	1303150
		3000		1303800	-

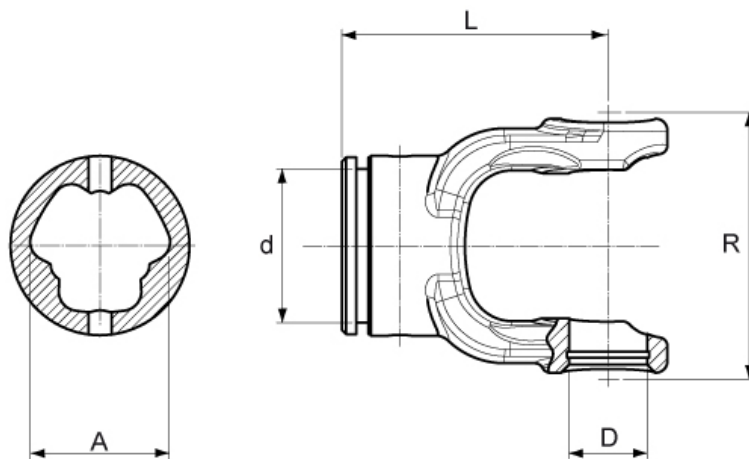
7.3 INTERNAL FORKS

TRILOBATE PROFILE



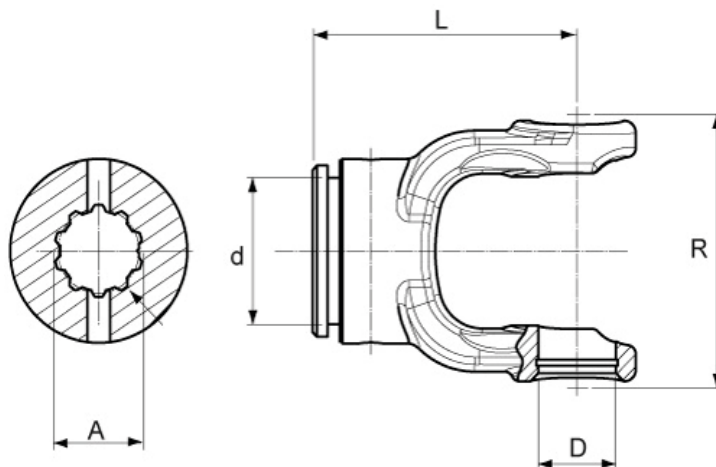
Size	TYPE	A [mm]	D [mm]	d [mm]	L [mm]	R [mm]	CODE
2	INNER PIPE FORK	29	23.8	40	84	76	1702029
	OUTER PIPE FORK	36.1		42			1702027
4	INNER PIPE FORK		43.4	27	46	92	92
	OUTER PIPE FORK	53			1704029		
5	INNER PIPE FORK		44.7	30.2	62	98	98
	OUTER PIPE FORK	51.3	1705027				
6	INNER PIPE FORK	44.7	30.2	59	107	112	1706029
	OUTER PIPE FORK	53.6		68			1706027
7	INNER PIPE FORK	44.7	34.9	59	107	112	1707029
	OUTER PIPE FORK	53.6		68			1707027
8	INNER PIPE FORK		62.7	34.9	74	120	124
	OUTER PIPE FORK	80			1708027		

YORK PROFILE



Size		SERIES	D [mm]	A [mm]	d [mm]	L [mm]	R [mm]	CODE
4	INNER PIPE FORK	YEP	27	46.7	53	92		1704069
	OUTER PIPE FORK			52.8	62			1704067
5	INNER PIPE FORK	YEP	30.2	46.7	53	98		1705069
	OUTER PIPE FORK			52.8	62			1705067
6	INNER PIPE FORK		30.2	53.4	59	107	112	1706069
	OUTER PIPE FORK			61	68			1706067
7	INNER PIPE FORK			53.4	59			1707069
	OUTER PIPE FORK			61	68			1707067
8	INNER PIPE FORK	YHP	34.9	60.8	74	120	124	1708069
	OUTER PIPE FORK			68.3	80			1708067
	INNER PIPE FORK			64.4	74			1708969
	OUTER PIPE FORK			73.9	80			1708967
10	INNER PIPE FORK	YEP	42	64.4	74	135	136	170T069
	OUTER PIPE FORK			73.9	80			170T067
12	INNER PIPE FORK		47.6	66.7	74	157	160	17012069
	OUTER PIPE FORK			78.3	80			17012067
14	INNER PIPE FORK		53	66.7	74			17014069
	OUTER PIPE FORK			78.3	80			17014067

GROOVED PROFILE

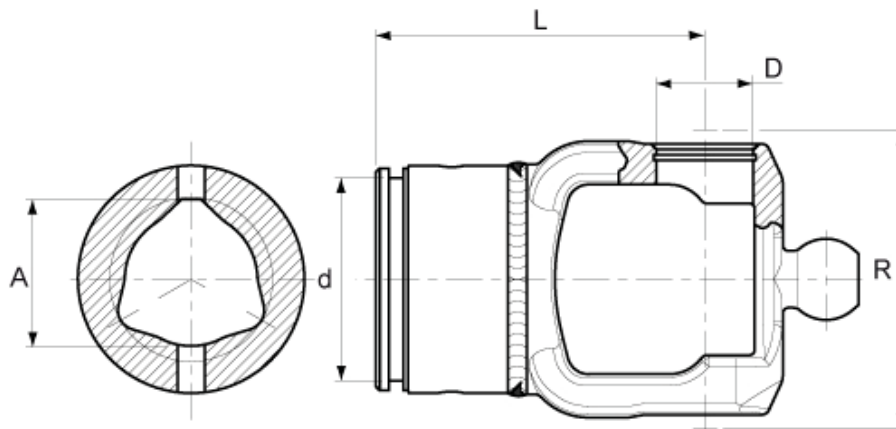


						CODE
Size	D [mm]	A [mm]	d [mm]	L [mm]	R [mm]	
4	27	CUNA 30	46	92	92	1704013
5	30.2	CUNA 35	53	98	98	1705013
6			59	107	112	1706013
7	34.9	CUNA 40				1707013
8		42	74.8	120	128	1708013
10	135			136	170T113	



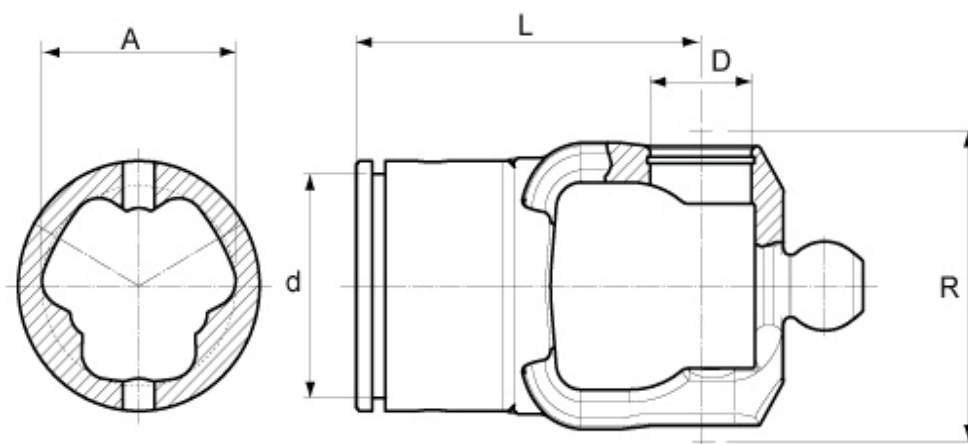
7.4 HOMOKINETIC INTERNAL FORKS

TRILOBATE PROFILE



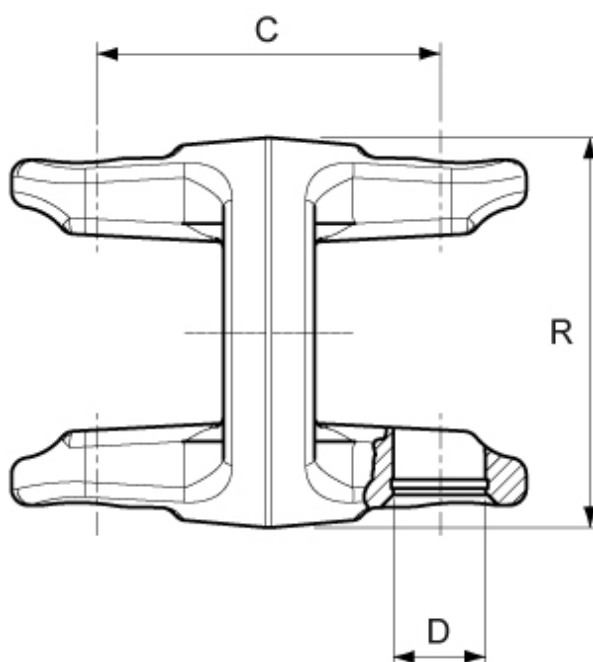
Size	TYPE	A [mm]	D [mm]	L [mm]	d [mm]	R [mm]	CODE
2	INNER PIPE FORK	29	23.8	93	40	75	1002829
	OUTER PIPE FORK	36.1			42		1002827
4	INNER PIPE FORK	44.7	27	101	46	92	1004829
	OUTER PIPE FORK	43.4			53		1004827
6	INNER PIPE FORK	53.6	30.2	107	59	97	1006729
	OUTER PIPE FORK	62.7			68		1006727
8	INNER PIPE FORK	62.7	34.9	122	74	114	1008729
	OUTER PIPE FORK	62.7			80		1008727

YORK PROFILE



Size	TYPE	SERIES	A [mm]	D [mm]	L [mm]	d [mm]	R [mm]	CODE
4	INNER PIPE FORK	YKP	46.7	27	101	46	92	1004802
	OUTER PIPE FORK	YJP	52.8		115	53		1004801
6	INNER PIPE FORK	YKP	53.4	30.2	107	59	97	1006769
	OUTER PIPE FORK	YJP	61			68		1006767
8	INNER PIPE FORK	YKP	60.8	34.9	128	74	114	1008769
	OUTER PIPE FORK	YJP	68.3			80		1008767
	INNER PIPE FORK	YUP	64.4			74		1008969
	OUTER PIPE FORK	YMP	73.9			80		1008967
10	INNER PIPE FORK	YKP	64.4	42	150	74	145	1000769
	OUTER PIPE FORK	YJP	73.9			80		1000767

DOUBLE

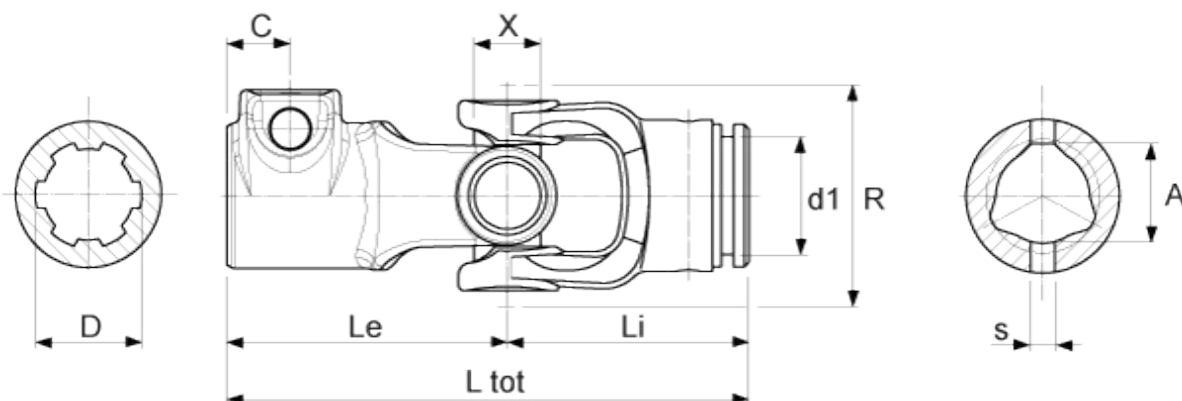


Size	C [mm]	D [mm]	R [mm]	CODE
1	68	22	72	1701226
2	78	23.8	82	1702226
4	92	27	95	1704226
6	109	30.2	115	1706226



7.5 JOINTS FOR TRILOBE PIPES

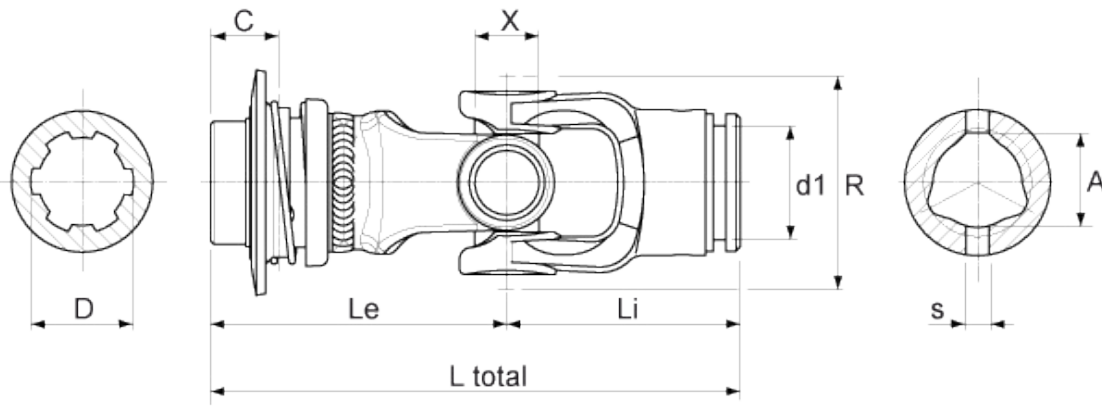
BUTTON ATTACHMENT



Dim.	TYPE	A [mm]	Li [mm]	B [mm]	S [mm]	D	Le [mm]	C [mm]	R [mm]	CODE			
2	OUTER PIPE JOINT	36.1	84	20	8	1 3/8" Z6	99	21	76	1122040			
	INNER PIPE JOINT	29				1 3/8" Z6				1122041			
	OUTER PIPE JOINT	36.1				1 3/8" Z21				1122042			
	INNER PIPE JOINT	29				1 3/8" Z21				1122043			
4	OUTER PIPE JOINT	43.4	92			20	8		1 3/8" Z6	108	21	92	1124040
	INNER PIPE JOINT	36.1							1 3/8" Z6				1124041
	OUTER PIPE JOINT	43.4							1 3/8" Z21				1124042
	INNER PIPE JOINT	36.1							1 3/8" Z21				1124043
5	OUTER PIPE JOINT	51.3	98	24	10	1 3/8" Z6	111	24	98	1125040			
	INNER PIPE JOINT	44.7				1 3/8" Z6				1125041			
	OUTER PIPE JOINT	51.3				1 3/8" Z21				1125042			
	INNER PIPE JOINT	44.7				1 3/8" Z21				1125043			
6	OUTER PIPE JOINT	53.6	107			24	10		1 3/8" Z6	118	24	112	1126040
	INNER PIPE JOINT	44.7							1 3/8" Z6				1126041
	OUTER PIPE JOINT	53.6							1 3/8" Z21				1126042
	INNER PIPE JOINT	44.7							1 3/8" Z21				1126043
	OUTER PIPE JOINT	53.6		1 3/4" Z6	123			1126045					
	INNER PIPE JOINT	44.7		1 3/4" Z6				1126046					
	OUTER PIPE JOINT	53.6		1 3/4" Z20				1126047					
	INNER PIPE JOINT	44.7		1 3/4" Z20				1126048					
7	OUTER PIPE JOINT	53.6	107	24	10	1 3/8" Z6	118	21		1127040			
	INNER PIPE JOINT	44.7				1 3/8" Z6				1127041			
	OUTER PIPE JOINT	53.6				1 3/8" Z21				1127042			
	INNER PIPE JOINT	44.7				1 3/8" Z21				1127043			

7	OUTER PIPE JOINT	53.6	107	24	10	1 3/4" Z6	123	24	112	1127045
	INNER PIPE JOINT	44.7				1 3/4" Z6				1127046
	OUTER PIPE JOINT	53.6				1 3/4" Z20				1127047
	INNER PIPE JOINT	44.7				1 3/4" Z20				1127048
8	OUTER PIPE JOINT	62.7	120	26	10	1 3/8" Z6	126	21	124	1128040
	INNER PIPE JOINT	53.6				1 3/8" Z6				1128041
	OUTER PIPE JOINT	62.7				1 3/8" Z21				1128046
	INNER PIPE JOINT	53.6				1 3/8" Z21				1128047
	OUTER PIPE JOINT	62.7				1 3/4" Z6	133	24		1128042
	INNER PIPE JOINT	53.6				1 3/4" Z6				1128045
	OUTER PIPE JOINT	62.7				1 3/4" Z20				1128043
	INNER PIPE JOINT	53.6				1 3/4" Z20				1128048

PULL COLLAR ATTACHMENT

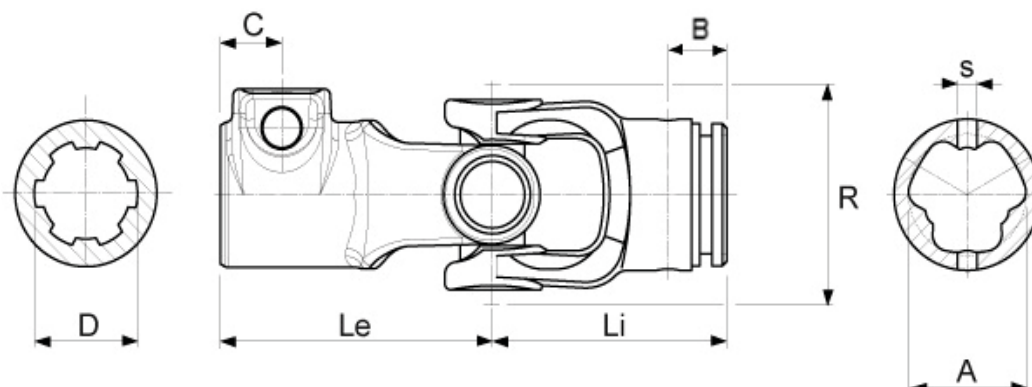


Dim.	TYPE	A [mm]	Li [mm]	B [mm]	S [mm]	D	Le [mm]	C [mm]	R [mm]	CODE
2	OUTER PIPE JOINT	36.1	84	20	8	1 3/8" Z6	102	28.5	76	1122140
	INNER PIPE JOINT	29				1 3/8" Z6				1122141
	OUTER PIPE JOINT	36.1				1 3/8" Z21				1122142
	INNER PIPE JOINT	29				1 3/8" Z21				1122143
4	OUTER PIPE JOINT	43.4	92			1 3/8" Z6	111		92	1124140
	INNER PIPE JOINT	36.1				1 3/8" Z6				1124141
	OUTER PIPE JOINT	43.4				1 3/8" Z21				1124142
	INNER PIPE JOINT	36.1				1 3/8" Z21				1124143
5	OUTER PIPE JOINT	51.3	98	24	10	1 3/8" Z6	114	112	98	1125140
	INNER PIPE JOINT	44.7				1 3/8" Z6				1125141
	OUTER PIPE JOINT	51.3				1 3/8" Z21				1125142
	INNER PIPE JOINT	44.7				1 3/8" Z21				1125143
6	OUTER PIPE JOINT	53.6	107			1 3/8" Z6	121		112	1126140
	INNER PIPE JOINT	44.7				1 3/8" Z6				1126141
	OUTER PIPE JOINT	53.6				1 3/8" Z21				1126142
	INNER PIPE JOINT	44.7				1 3/8" Z21				1126143
	OUTER PIPE JOINT	53.6				1 3/4" Z6	124			1126145
	INNER PIPE JOINT	44.7				1 3/4" Z6				1126146
	OUTER PIPE JOINT	53.6				1 3/4" Z20				1126147
	INNER PIPE JOINT	44.7				1 3/4" Z20				1126148
7	OUTER PIPE JOINT	53.6				1 3/8" Z6	121		112	1127140
	INNER PIPE JOINT	44.7				1 3/8" Z6				1127141
	OUTER PIPE JOINT	53.6				1 3/8" Z21				1127142
	INNER PIPE JOINT	44.7				1 3/8" Z21				1127143
	OUTER PIPE JOINT	53.6		1 3/4" Z6	124	1127145				
	INNER PIPE JOINT	44.7		1 3/4" Z6		1127146				
	OUTER PIPE JOINT	53.6		1 3/4" Z20		1127147				
	INNER PIPE JOINT	44.7		1 3/4" Z20		1127148				

8	OUTER PIPE JOINT	62.7	120	26	10	1 3/8" Z6	134	28.5	124	1128140	
	INNER PIPE JOINT	53.6				1 3/8" Z6				1128141	
	OUTER PIPE JOINT	62.7				1 3/8" Z21				1128142	
	INNER PIPE JOINT	53.6				1 3/8" Z21				1128143	
	OUTER PIPE JOINT	62.7				1 3/4" Z6	135			1128145	
	INNER PIPE JOINT	53.6				1 3/4" Z6				1128146	
	OUTER PIPE JOINT	62.7				1 3/4" Z20				1128147	
	INNER PIPE JOINT	53.6				1 3/4" Z20				1128148	

7.6 YORK PIPE JOINTS

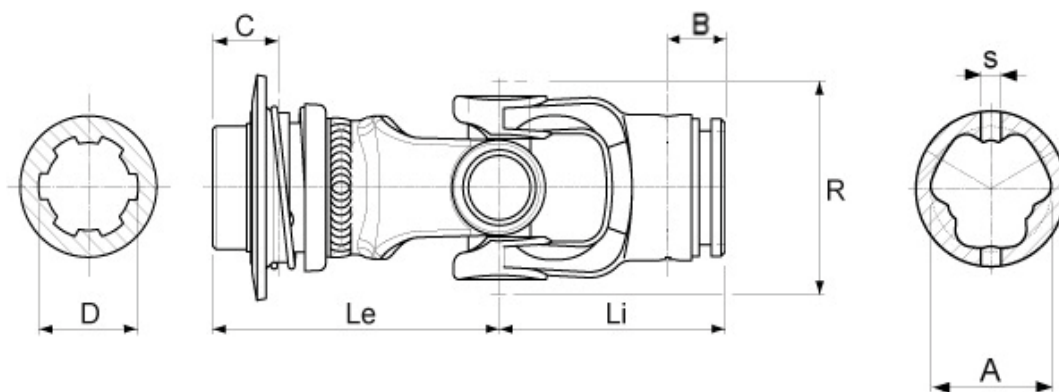
BUTTON ATTACHMENT



Dim.	TYPE	SERIES	A [mm]	Li [mm]	B [mm]	S [mm]	D	Le [mm]	C [mm]	R [mm]	CODE		
4	OUTER PIPE JOINT	YEP	52.8	92	20	8	1 3/8" Z6	108		92	1124050		
	INNER PIPE JOINT		46.7				1 3/8" Z6				1124051		
	OUTER PIPE JOINT		52.8				1 3/8" Z21				1124052		
	INNER PIPE JOINT		46.7				1 3/8" Z21				1124053		
5	OUTER PIPE JOINT			52.8	98			1 3/8" Z6	111	21	98	1125050	
	INNER PIPE JOINT			46.7				1 3/8" Z6				1125051	
	OUTER PIPE JOINT			52.8				1 3/8" Z21				1125052	
	INNER PIPE JOINT			46.7				1 3/8" Z21				1125053	
6	OUTER PIPE JOINT			61	107	24	10	1 3/8" Z6	118	24	112	1126050	
	INNER PIPE JOINT			53.4				1 3/8" Z6				1126051	
	OUTER PIPE JOINT			61				1 3/8" Z21				1126052	
	INNER PIPE JOINT			53.4				1 3/8" Z21				1126053	
	OUTER PIPE JOINT			61				1 3/4" Z6	123			1126054	
	INNER PIPE JOINT			53.4				1 3/4" Z6				1126055	
	OUTER PIPE JOINT			61				1 3/4" Z20				1126056	
	INNER PIPE JOINT			53.4				1 3/4" Z20				1126057	
7	OUTER PIPE JOINT			61	107	24	10	1 3/8" Z6	118	21	112	1127050	
	INNER PIPE JOINT			53.4				1 3/8" Z6				1127051	
	OUTER PIPE JOINT			61				1 3/8" Z21				1127052	
	INNER PIPE JOINT			53.4				1 3/8" Z21				1127053	
	OUTER PIPE JOINT			61				1 3/4" Z6	123			24	1127054
	INNER PIPE JOINT			53.4				1 3/4" Z6					1127055
	OUTER PIPE JOINT			61				1 3/4" Z20					1127056
	INNER PIPE JOINT			53.4				1 3/4" Z20					1127057

8	OUTER PIPE JOINT	YEP	68.3	120	26	10	1 3/8" Z6	126	21	124	1128050
	INNER PIPE JOINT		60.8				1 3/8" Z6				1128051
	OUTER PIPE JOINT		68.3				1 3/8" Z21				1128052
	INNER PIPE JOINT		60.8				1 3/8" Z21				1128053
	OUTER PIPE JOINT		68.3				1 3/4" Z6	133	24		1128054
	INNER PIPE JOINT		60.8				1 3/4" Z6				1128055
	OUTER PIPE JOINT		68.3				1 3/4" Z20				1128056
	INNER PIPE JOINT		60.8				1 3/4" Z20				1128057
	OUTER PIPE JOINT	YHP	73.9				1 3/8" Z6	126	21		1128550
	INNER PIPE JOINT		64.4				1 3/8" Z6				1128551
	OUTER PIPE JOINT		73.9				1 3/8" Z21				1128552
	INNER PIPE JOINT		64.4				1 3/8" Z21				1128553
	OUTER PIPE JOINT		73.9				1 3/4" Z6	133	24		1128554
	INNER PIPE JOINT		64.4				1 3/4" Z6				1128555
	OUTER PIPE JOINT		73.9				1 3/4" Z20				1128556
	INNER PIPE JOINT		64.4				1 3/4" Z20				1128557
10	OUTER PIPE JOINT	YEP	73.9	135			1 3/8" Z6	141	21	136	112T050
	INNER PIPE JOINT		64.4				1 3/8" Z6				112T051
	OUTER PIPE JOINT		73.9				1 3/8" Z21				112T052
	INNER PIPE JOINT		64.4				1 3/8" Z21				112T053
	OUTER PIPE JOINT		73.9				1 3/4" Z6	145	24		112T054
	INNER PIPE JOINT		64.4				1 3/4" Z6				112T055
	OUTER PIPE JOINT		73.9				1 3/4" Z20				112T056
	INNER PIPE JOINT		64.4				1 3/4" Z20				112T057

PULL COLLAR ATTACHMENT

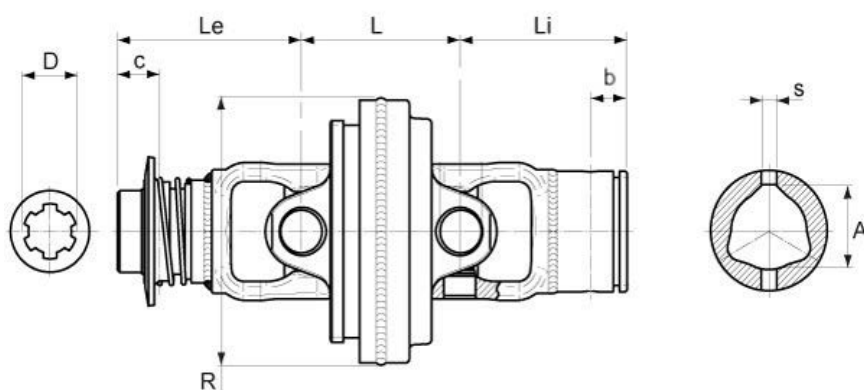


Dim.	TYPE	SERIES	A [mm]	Li [mm]	B [mm]	S [mm]	D	Le [mm]	C [mm]	R [mm]	CODE						
4	OUTER PIPE JOINT	YEP	52.8	92	20	8	1 3/8" Z6	111	28.5	92	1124150						
	INNER PIPE JOINT		46.7				1 3/8" Z6				1124151						
	OUTER PIPE JOINT		52.8				1 3/8" Z21				1124152						
	INNER PIPE JOINT		46.7				1 3/8" Z21				1124153						
5	OUTER PIPE JOINT		52.8	98	24	10	1 3/8" Z6	114		28.5	98	1125150					
	INNER PIPE JOINT		46.7				1 3/8" Z6					1125151					
	OUTER PIPE JOINT		52.8				1 3/8" Z21					1125152					
	INNER PIPE JOINT		46.7				1 3/8" Z21					1125153					
6	OUTER PIPE JOINT		YEP	61	107	24	10	1 3/8" Z6	121		28.5	112	1126150				
	INNER PIPE JOINT			53.4				1 3/8" Z6					1126151				
	OUTER PIPE JOINT			61				1 3/8" Z21					1126152				
	INNER PIPE JOINT			53.4				1 3/8" Z21					1126153				
	OUTER PIPE JOINT			61				1 3/4" Z6	124	1126154							
	INNER PIPE JOINT			53.4				1 3/4" Z6		1126155							
	OUTER PIPE JOINT			61				1 3/4" Z20		1126156							
	INNER PIPE JOINT			53.4				1 3/4" Z20		1126157							
7	OUTER PIPE JOINT			61				107	24	10			1 3/8" Z6	121	28.5	112	1127150
	INNER PIPE JOINT			53.4									1 3/8" Z6				1127151
	OUTER PIPE JOINT			61									1 3/8" Z21				1127152
	INNER PIPE JOINT			53.4									1 3/8" Z21				1127153
	OUTER PIPE JOINT			61									1 3/4" Z6	124			1127154
	INNER PIPE JOINT			53.4									1 3/4" Z6				1127155
	OUTER PIPE JOINT			61									1 3/4" Z20				1127156
	INNER PIPE JOINT			53.4									1 3/4" Z20				1127157

8	OUTER PIPE JOINT	YEP	68.3	120	26	10	1 3/8" Z6	134	112	124	1128150
	INNER PIPE JOINT		60.8				1 3/8" Z6				1128151
	OUTER PIPE JOINT		68.3				1 3/8" Z21				1128152
	INNER PIPE JOINT		60.8				1 3/8" Z21				1128153
	OUTER PIPE JOINT		68.3				1 3/4" Z6	135			1128154
	INNER PIPE JOINT		60.8				1 3/4" Z6				1128155
	OUTER PIPE JOINT		68.3				1 3/4" Z20				1128156
	INNER PIPE JOINT		60.8				1 3/4" Z20				1128157
8	OUTER PIPE JOINT	YHP	73.9	120	26	10	1 3/8" Z6	134	28.5	124	1128650
	INNER PIPE JOINT		64.4				1 3/8" Z6				1128651
	OUTER PIPE JOINT		73.9				1 3/8" Z21				1128652
	INNER PIPE JOINT		64.4				1 3/8" Z21				1128653
	OUTER PIPE JOINT		73.9				1 3/4" Z6	135			1128654
	INNER PIPE JOINT		64.4				1 3/4" Z6				1128655
	OUTER PIPE JOINT		73.9				1 3/4" Z20				1128656
	INNER PIPE JOINT		64.4				1 3/4" Z20				1128657
10	OUTER PIPE JOINT	YEP	73.9	135	26	10	1 3/8" Z6	147	28.5	136	112T150
	INNER PIPE JOINT		64.4				1 3/8" Z6				112T151
	OUTER PIPE JOINT		73.9				1 3/8" Z21				112T152
	INNER PIPE JOINT		64.4				1 3/8" Z21				112T153
	OUTER PIPE JOINT		73.9				1 3/4" Z6	152			112T154
	INNER PIPE JOINT		64.4				1 3/4" Z6				112T155
	OUTER PIPE JOINT		73.9				1 3/4" Z20				112T156
	INNER PIPE JOINT		64.4				1 3/4" Z20				112T157

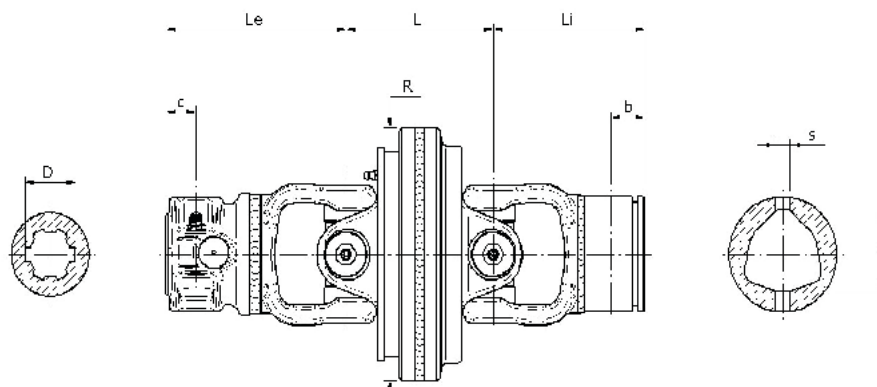
7.7 HOMOKINETIC JOINTS FOR TRILOBE PIPES

PUSH-BUTTON



Dim.	TYPE	A [mm]	S [mm]	Li [mm]	B [mm]	Le [mm]	D	C [mm]	L [mm]	R [mm]	CODE
2	INNER PIPE JOINT	29	8	93	20	114	1 3/8" Z6	28.5	86	147	7112821
	OUTER PIPE JOINT	36.1					1 3/8" Z6				7112822
	INNER PIPE JOINT	29					1 3/8" Z21				7112831
	OUTER PIPE JOINT	36.1					1 3/8" Z21				7112832
4	INNER PIPE JOINT			101.2		122	1 3/8" Z6		95	151	7114821
	OUTER PIPE JOINT	43.4					1 3/8" Z6				7114822
	INNER PIPE JOINT	36.1					1 3/8" Z21				7114831
	OUTER PIPE JOINT	43.4					1 3/8" Z21				7114832
6	INNER PIPE JOINT	44.7	10	108.5	24	123.5	1 3/8" Z6		104	166	7116821
	OUTER PIPE JOINT	53.6					1 3/8" Z6				7116822
	INNER PIPE JOINT	44.7					1 3/8" Z21				7116831
	OUTER PIPE JOINT	53.6					1 3/8" Z21				7116832
	INNER PIPE JOINT	44.7				128	1 3/4" Z6				7116841
	OUTER PIPE JOINT	53.6					1 3/4" Z6				7116842
	INNER PIPE JOINT	44.7					1 3/4" Z20				7116851
	OUTER PIPE JOINT	53.6					1 3/4" Z20				7116852
8	INNER PIPE JOINT	53.6		122	26	133.5	1 3/8" Z6		118	184	7118821
	OUTER PIPE JOINT	62.7					1 3/8" Z6				7118822
	INNER PIPE JOINT	53.6					1 3/8" Z21				7118831
	OUTER PIPE JOINT	62.7					1 3/8" Z21				7118832
	INNER PIPE JOINT	53.6				138	1 3/4" Z6				7118841
	OUTER PIPE JOINT	62.7					1 3/4" Z6				7118842
	INNER PIPE JOINT	53.6					1 3/4" Z20				7118851
	OUTER PIPE JOINT	62.7					1 3/4" Z20				7118852

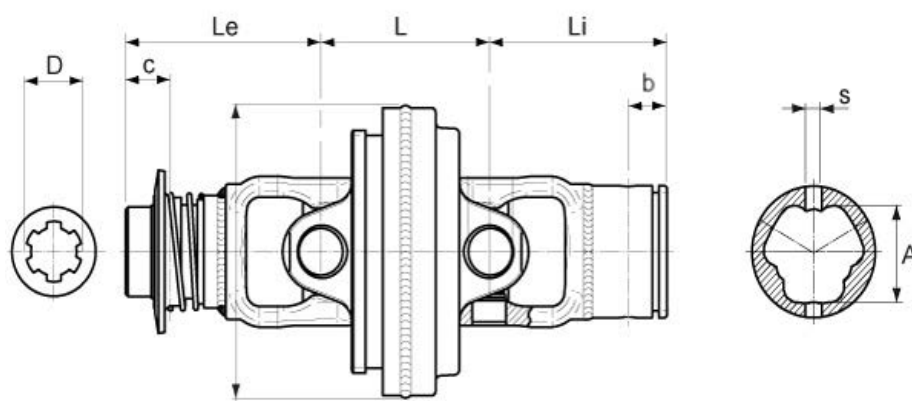
QUICK PIN



Dim.	TYPE	A [mm]	S [mm]	Li [mm]	B [mm]	Le [mm]	D	C [mm]	L [mm]	R [mm]	CODE	
2	Inner tube joint	29	8	93	20	112	1 3/8" Z6	21	86	147	7112721	
	Outer tube joint	36.1					1 3/8" Z6				7112722	
	Inner tube joint	29					1 3/8" Z21				7112731	
	Outer tube joint	36.1					1 3/8" Z21				7112732	
4	Inner tube joint	36.1		101.2	123	1 3/8" Z6	21		95	151	7114721	
	Outer tube joint	43.4				1 3/8" Z6					7114722	
	Inner tube joint	36.1				1 3/8" Z21					7114731	
	Outer tube joint	43.4				1 3/8" Z21					7114732	
6	Inner tube joint	44.7	10	108.5	24	128	1 3/8" Z6	24	104	166	7116721	
	Outer tube joint	53.6					1 3/8" Z6				7116722	
	Inner tube joint	44.7					1 3/8" Z21				7116731	
	Outer tube joint	53.6					1 3/8" Z21				7116732	
	Inner tube joint	44.7				130	1 3/4" Z6				24	7116741
	Outer tube joint	53.6					1 3/4" Z6					7116742
	Inner tube joint	44.7					1 3/4" Z20					7116751
	Outer tube joint	53.6					1 3/4" Z20					7116752
8	Inner tube joint	53.6		122	26	138	1 3/8" Z6	21	118	184	7118721	
	Outer tube joint	62.7					1 3/8" Z6				7118722	
	Inner tube joint	53.6					1 3/8" Z21				7118731	
	Outer tube joint	62.7					1 3/8" Z21				7118732	
	Inner tube joint	53.6				140	1 3/4" Z6	24			7118741	
	Outer tube joint	62.7					1 3/4" Z6				7118742	
	Inner tube joint	53.6					1 3/4" Z20				7118751	
	Outer tube joint	62.7					1 3/4" Z20				7118752	

7.8 HOMOKINETIC JOINTS FOR YORK PIPES

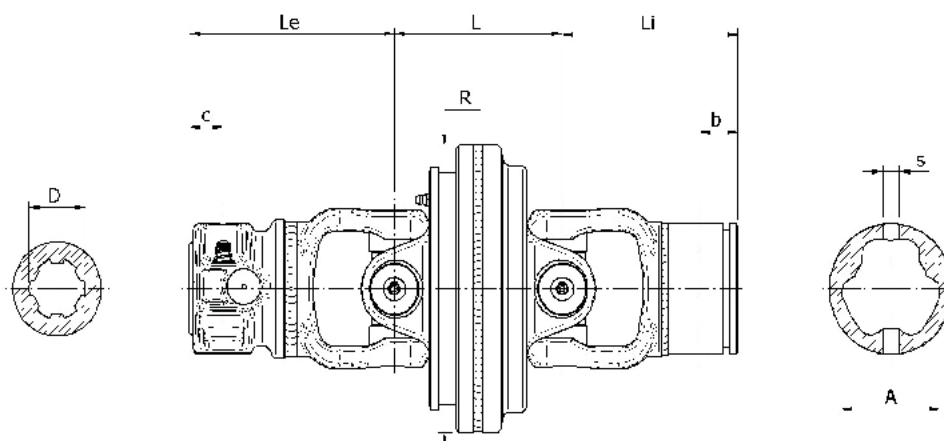
PULL COLLAR



Dim.	TYPE	SERIES	A [mm]	S [mm]	Li [mm]	B [mm]	Le [mm]	D	C [mm]	L [mm]	R [mm]	CODE
4	INNER PIPE JOINT	YKP	46.7	8	101.2	20	122	1 3/8" Z6	28.5	95	151	7414821
	OUTER PIPE JOINT	YJP	52.8		115			1 3/8" Z6				7414822
	INNER PIPE JOINT	YKP	46.7		101.2			1 3/8" Z21				7414831
	OUTER PIPE JOINT	YJP	52.8		115			1 3/8" Z21				7414832
6	INNER PIPE JOINT	YKP	53.4	10	107	24	123.5	1 3/8" Z6		104	166	7416821
	OUTER PIPE JOINT	YJP	61					1 3/8" Z6				7416822
	INNER PIPE JOINT	YKP	53.4					1 3/8" Z21				7416831
	OUTER PIPE JOINT	YJP	61					1 3/8" Z21				7416832
	INNER PIPE JOINT	YKP	53.4				128	1 3/4" Z6				7416841
	OUTER PIPE JOINT	YJP	61					1 3/4" Z6				7416842
	INNER PIPE JOINT	YKP	53.4					1 3/4" Z20				7416851
	OUTER PIPE JOINT	YJP	61					1 3/4" Z20				7416852
8	INNER PIPE JOINT	YKP	60.8		128	26	133.5	1 3/8" Z6		118	184	7418821
	OUTER PIPE JOINT	YJP	68.3					1 3/8" Z6				7418822
	INNER PIPE JOINT	YKP	60.8					1 3/8" Z21				7418831
	OUTER PIPE JOINT	YJP	68.3					1 3/8" Z21				7418832
	INNER PIPE JOINT	YKP	60.8				138	1 3/4" Z6				7418841
	OUTER PIPE JOINT	YJP	68.3					1 3/4" Z6				7418842
	INNER PIPE JOINT	YKP	60.8					1 3/4" Z20				7418851
	OUTER PIPE JOINT	YJP	68.3					1 3/4" Z20				7418852

8	INNER PIPE JOINT	YUP	64.4		129	28	133.5	1 3/8" Z6				7418823
	OUTER PIPE JOINT	YMP	73.9					1 3/8" Z6				7418824
	INNER PIPE JOINT	YUP	64.4					1 3/8" Z21				7418833
	OUTER PIPE JOINT	YMP	73.9					1 3/8" Z21				7418834
	INNER PIPE JOINT	YUP	64.4				138	1 3/4" Z6				7418843
	OUTER PIPE JOINT	YMP	73.9					1 3/4" Z6				7418844
	INNER PIPE JOINT	YUP	64.4					1 3/4" Z20				7418853
	OUTER PIPE JOINT	YMP	73.9					1 3/4" Z20				7418854
10	INNER PIPE JOINT	YKP	64.4	10	150	28	152.5	1 3/8" Z6	28.5	150	216	741T821
	OUTER PIPE JOINT	YJP	73.9					1 3/8" Z6				741T822
	INNER PIPE JOINT	YKP	64.4					1 3/8" Z21				741T831
	OUTER PIPE JOINT	YJP	73.9					1 3/8" Z21				741T832
	INNER PIPE JOINT	YKP	64.4				157	1 3/4" Z6				741T841
	OUTER PIPE JOINT	YJP	73.9					1 3/4" Z6				741T842
	INNER PIPE JOINT	YKP	64.4					1 3/4" Z20				741T851
	OUTER PIPE JOINT	YJP	73.9					1 3/4" Z20				741T852

QUICK PIN

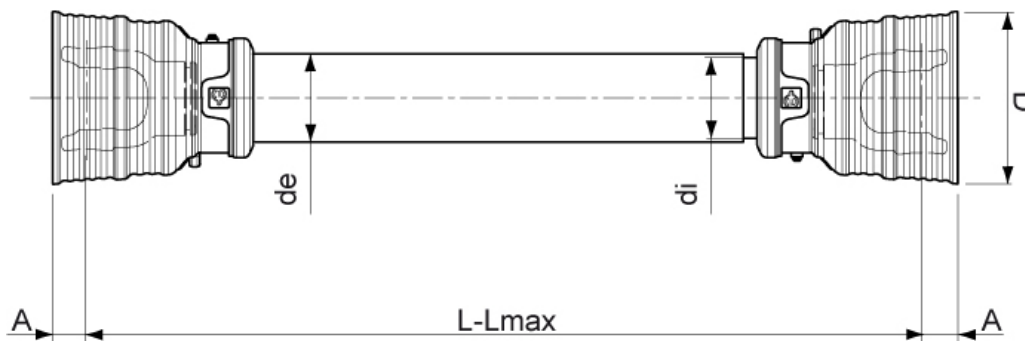


Dim.	TYPE	SERIES	A [mm]	S [mm]	Li [mm]	B [mm]	Le [mm]	D	C [mm]	L [mm]	R [mm]	CODE
4	INNER PIPE JOINT	YKP	46.7	8	101.2	20	123	1 3/8" Z6	21	95	151	7414721
	OUTER PIPE JOINT	YJP	52.8		115			1 3/8" Z6				7414722
	INNER PIPE JOINT	YKP	46.7		101.2			1 3/8" Z21				7414731
	OUTER PIPE JOINT	YJP	52.8		115			1 3/8" Z21				7414732
6	INNER PIPE JOINT	YKP	53.4	10	107	24	128	1 3/8" Z6	21	104	166	7416721
	OUTER PIPE JOINT	YJP	61					1 3/8" Z6				7416722
	INNER PIPE JOINT	YKP	53.4					1 3/8" Z21				7416731
	OUTER PIPE JOINT	YJP	61					1 3/8" Z21				7416732
	INNER PIPE JOINT	YKP	53.4				130	24	1 3/4" Z6			7416741
	OUTER PIPE JOINT	YJP	61						1 3/4" Z6			7416742
	INNER PIPE JOINT	YKP	53.4						1 3/4" Z20			7416751
	OUTER PIPE JOINT	YJP	61						1 3/4" Z20			7416752
8	INNER PIPE JOINT	YKP	60.8	10	128	26	138	1 3/8" Z6	21	118	184	7418721
	OUTER PIPE JOINT	YJP	68.3					1 3/8" Z6				7418722
	INNER PIPE JOINT	YKP	60.8					1 3/8" Z21				7418731
	OUTER PIPE JOINT	YJP	68.3					1 3/8" Z21				7418732
	INNER PIPE JOINT	YKP	60.8				140	24	1 3/4" Z6			7418741
	OUTER PIPE JOINT	YJP	68.3						1 3/4" Z6			7418742
	INNER PIPE JOINT	YKP	60.8						1 3/4" Z20			7418751
	OUTER PIPE JOINT	YJP	68.3						1 3/4" Z20			7418752

8	INNER PIPE JOINT	YUP	64.4		129	28	138	1 3/8" Z6	21			7418723
	OUTER PIPE JOINT	YMP	73.9					1 3/8" Z6				7418724
	INNER PIPE JOINT	YUP	64.4					1 3/8" Z21				7418733
	OUTER PIPE JOINT	YMP	73.9					1 3/8" Z21				7418734
	INNER PIPE JOINT	YUP	64.4				140	1 3/4" Z6	24			7418743
	OUTER PIPE JOINT	YMP	73.9					1 3/4" Z6				7418744
	INNER PIPE JOINT	YUP	64.4					1 3/4" Z20				7418753
	OUTER PIPE JOINT	YMP	73.9					1 3/4" Z20				7418754
10	INNER PIPE JOINT	YKP	64.4	10	150	28	157	1 3/8" Z6	21	150	216	741T721
	OUTER PIPE JOINT	YJP	73.9					1 3/8" Z6				741T722
	INNER PIPE JOINT	YKP	64.4					1 3/8" Z21				741T731
	OUTER PIPE JOINT	YJP	73.9					1 3/8" Z21				741T732
	INNER PIPE JOINT	YKP	64.4				159	1 3/4" Z6	24			741T741
	OUTER PIPE JOINT	YJP	73.9					1 3/4" Z6				741T742
	INNER PIPE JOINT	YKP	64.4					1 3/4" Z20				741T751
	OUTER PIPE JOINT	YJP	73.9					1 3/4" Z20				741T752

7.9 COMPLETE PROTECTIONS PM14

STANDARD-STANDARD

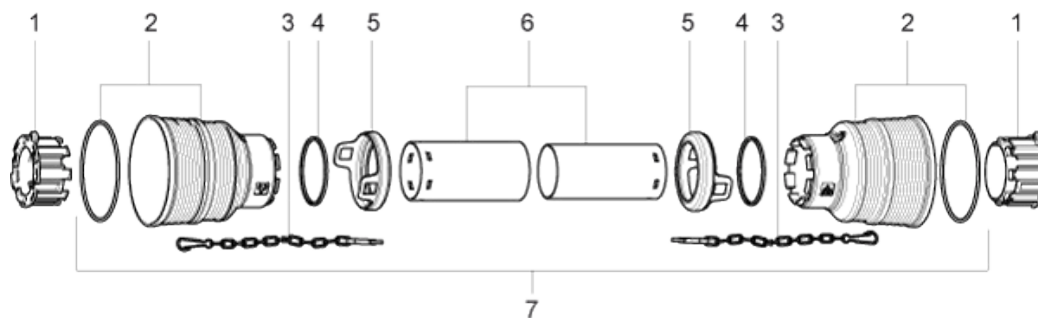


STANDARD - STANDARD

Dim.	L [mm]	L max [mm]	A [mm]	D [mm]	di [mm]	de [mm]	CODE	CODE EC RING NUT KIT
2	460	650	28.5	130	61	66.5	94SS2025	1792799
	510	740					94SS2030	1792799
	610	900					94SS2040	1792799
	710	1070					94SS2050	1792799
	810	1240					94SS2060	1792799
	910	1400					94SS2070	1792799
	1010	1570					94SS2080	1792799
	1210	1900					94SS2100	1792799
4*	460	650	20.5	130	61	66.5	94SS4024	1794799
	510	730					94SS4029	1794799
	610	900					94SS4039	1794799
	710	1060					94SS4049	1794799
	810	1230					94SS4059	1794799
	910	1400					94SS4069	1794799
	1010	1560					94SS4079	1794799
	1210	1900					94SS4099	1794799

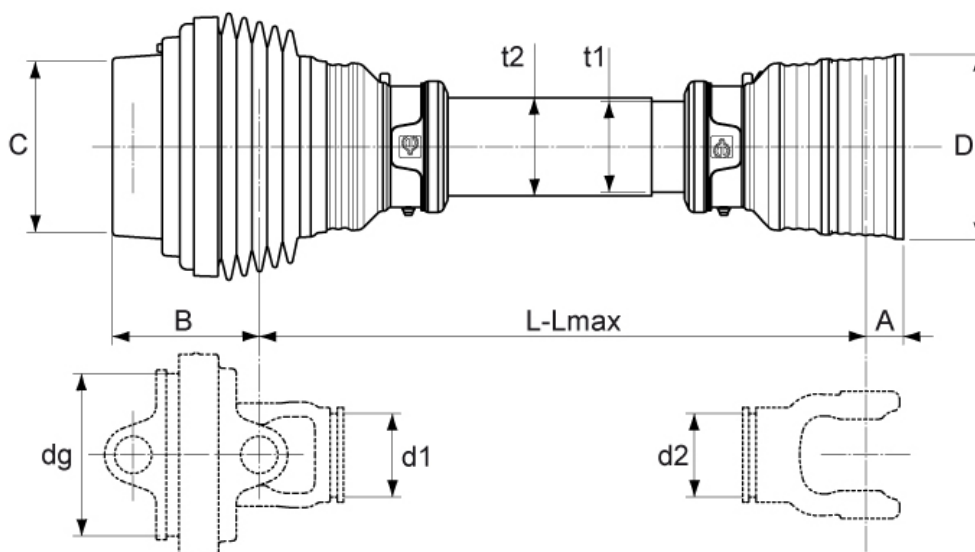
*AXP - BXP

COMPONENTS



No.	Description	L [mm]	Dim.	Qty	CODE
1	RING NUT KIT	-	2	1	1792799
			4		1794799
2	FULL STANDARD HOOD	-	2	2	1790103
			4		
3	ANTI-ROTATION CHAIN	-	2	2	1006065
			4		
4	STOP	-	2	2	1211735
			4		
5	SAFETY SLEEVE	-	2	2	1881709
			4		
6	INNER PIPE + OUTER PIPE	1210	2	1	9T1P100
			4		9T1P099
7	BASE PROTECTION	1210	2	1	94SSL100
			4		94SSL099

HOMOKINETIC-STANDARD

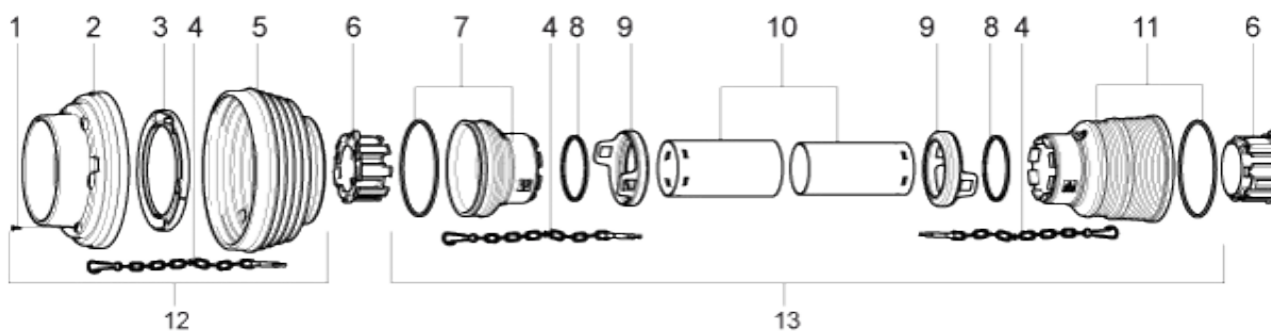


HOMOKINETIC - STANDARD

Dim.	L [mm]	L max [mm]	A [mm]	D [mm]	B [mm]	C [mm]	t1 [mm]	t2 [mm]	d1 [mm]	d2 [mm]	dg [mm]	CODE	CODE EC RING NUT KIT
2	460	640	28.5	130	102	119	61	66.5	46	40	107	94GS2023	1792799
	510	730	28.5	130	102	119	61	66.5	46	40	107	94GS2028	
	610	890	28.5	130	102	119	61	66.5	46	40	107	94GS2038	
	710	1060	28.5	130	102	119	61	66.5	46	40	107	94GS2048	
	810	1230	28.5	130	102	119	61	66.5	46	40	107	94GS2058	
	910	1390	28.5	130	102	119	61	66.5	46	40	107	94GS2068	
	1010	1560	28.5	130	102	119	61	66.5	46	40	107	94GS2078	
	1210	1890	28.5	130	102	119	61	66.5	46	40	107	94GS2098	
4*	460	640	20.5	130	118	138	61	66.5	53	46	124	94GS4022	1794799
	510	720	20.5	130	118	138	61	66.5	53	46	124	94GS4027	
	610	890	20.5	130	118	138	61	66.5	53	46	124	94GS4037	
	710	1060	20.5	130	118	138	61	66.5	53	46	124	94GS4047	
	810	1220	20.5	130	118	138	61	66.5	53	46	124	94GS4057	
	910	1390	20.5	130	118	138	61	66.5	53	46	124	94GS4067	
	1010	1560	20.5	130	118	138	61	66.5	53	46	124	94GS4077	
	1210	1890	20.5	130	118	138	61	66.5	53	46	124	94GS4097	

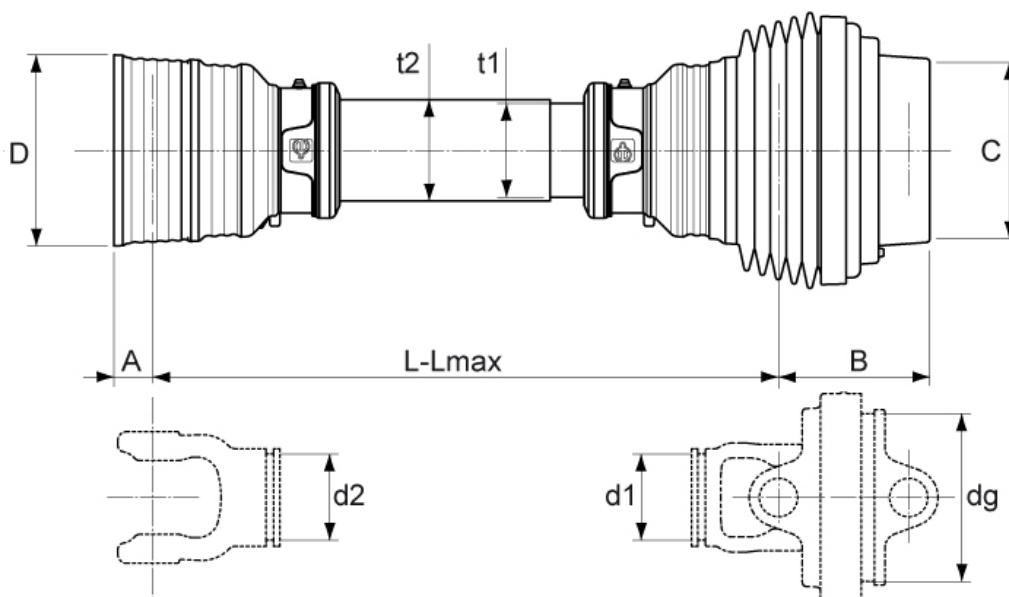
*AJP

COMPLETE GUARDS PM14 - HOMOKINETICS-STANDARD - COMPONENTS



No.	Description	L [mm]	Dim.	Qty	CODE
1	SELF-THREAD. SCREW 2.9 X 9.5	-	2	6	6280309
			4		
2	GO2 PROTECTION HOOD	-	2	1	1790020
	GO4 PROTECTION HOOD		4		1790040
3	GO2 FIXING RING	-	2	1	1790022
	GO4 FIXING RING		4		1790042
4	ANTI-ROTATION CHAIN	-	2	3	1006065
			4		
5	GO2 PROTECTION BELLOWS	-	2	1	1882805
	GO4 PROTECTION BELLOWS		4		1884804
6	RING NUT KIT	-	2	1	1792799
			4		1794799
7	EXTRA SHORT CAP OVERALL	-	2	1	1790101
			4		
8	STOP	-	2	2	1211735
			4		
9	SAFETY SLEEVE	-	2	2	1881709
			4		
10	TOTAL PIPES	1210	2	1	9T1P098
			4		9T1P097
11	FULL STANDARD HOOD	-	2	1	1790103
			4		
12	GO2 GUARD	-	2	1	9290201
	GO4 GUARD		4		9290401
13	COMPLETE BASE GUARD	1210	2	1	94ESL098
			4		94ESL097

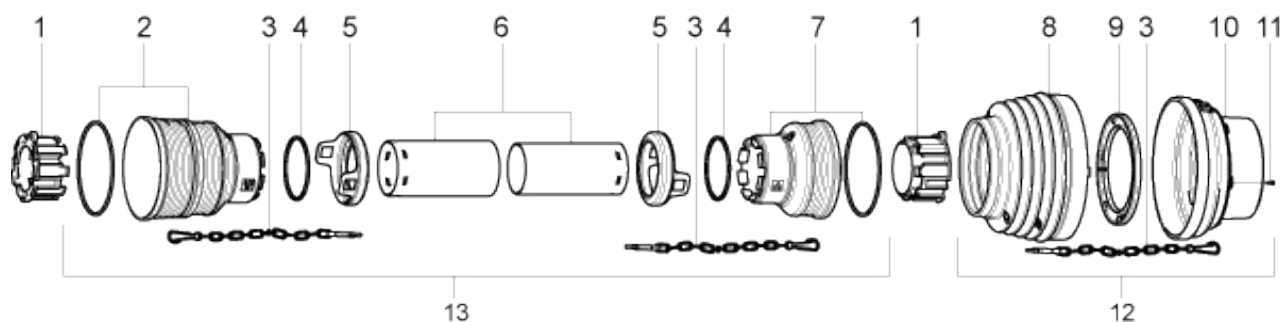
STANDARD-HOMOKINETIC



STANDARD-HOMOKINETIC												CODE	CODE KIT EC RING NUTS
Dim.	L [mm]	L max [mm]	A [mm]	D [mm]	B [mm]	C [mm]	t1 [mm]	t2 [mm]	d1 [mm]	d2 [mm]	dg [mm]		
2	460	640	28.5	130	102	119	61	66.5	46	40	107	94SG2023	1792799
	510	730										94SG2028	
	610	890										94SG2038	
	710	1060										94SG2048	
	810	1230										94SG2058	
	910	1390										94SG2068	
	1010	1560										94SG2078	
	1210	1890										94SG2098	
4*	460	640	20.5	130	118	138	61	66.5	53	46	124	94SG4022	1794799
	510	720										94SG4027	
	610	890										94SG4037	
	710	1060										94SG4047	
	810	1220										94SG4057	
	910	1390										94SG4067	
	1010	1560										94SG4077	
	1210	1890										94SG4097	

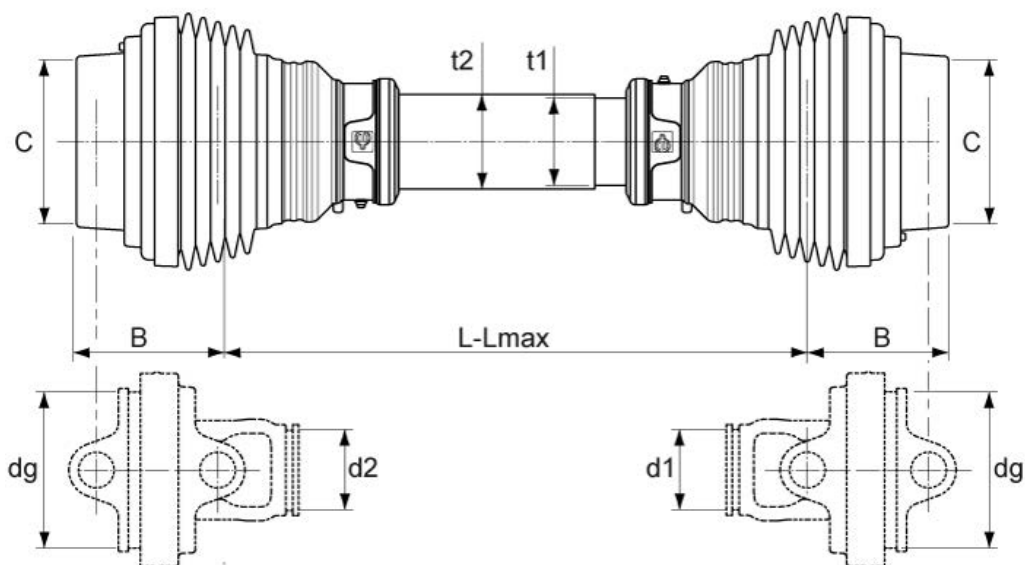
*AKP

COMPONENTS



No.	Description	L [mm]	Dim.	Qty	CODE
1	RING NUT KIT	-	2	1	1792799
			4		1794799
2	STANDARD FULL CAP	-	2	1	1790103
			4		
3	ANTI-ROTATION CHAIN	-	2	3	1006065
			4		
4	STOP	-	2	2	1211735
			4		
5	SAFETY SLEEVE	-	2	2	1881709
			4		
6	TOTAL PIPES	1210	2	1	9T1P098
			4		9T1P097
7	EXTRA SHORT CAP OVERALL	-	2	1	1790101
			4		
8	GO2 PROTECTION BELLOWS	-	2	1	1882805
	GO4 PROTECTION BELLOWS		4		1884804
9	GO2 FIXING RING	-	2	1	1790022
	GO4 FIXING RING		4		1790042
10	GO2 PROTECTIVE CAP	-	2	1	1790020
	GO4 PROTECTIVE CAP		4		1790040
11	SELF-THREAD. SCREW 2.9 X 9.5	-	2	6	6280309
			4		
12	COMPLETE GO2 GUARD	-	2	1	9290201
	COMPLETE GO4 GUARD		4		9290401
13	COMPLETE BASE GUARD	1210	2	1	94SEL098
			4		94SEL097

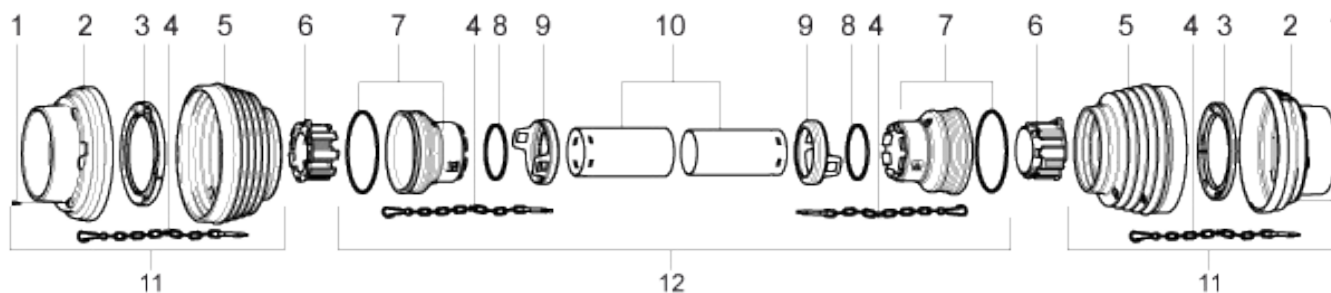
HOMOKINETIC-HOMOKINETIC



HOMOKINETIC-HOMOKINETIC												CODE	CODE KIT EC RING NUTS
Dim.	L [mm]	L max [mm]	A [mm]	D [mm]	B [mm]	C [mm]	t1 [mm]	t2 [mm]	d1 [mm]	d2 [mm]	dg [mm]		
2	460	640	102	119	61	66.5	46	40	107	46	107	94GG2022	1792799
	510	720										94GG2027	
	610	890										94GG2037	
	710	1060										94GG2047	
	810	1220										94GG2057	
	910	1390										94GG2067	
	1010	1560										94GG2077	
	1210	1890										94GG2097	
4*	460	630	118	138	61	66.5	53	46	124	53	124	94GG4021	1794799
	510	720										94GG4026	
	610	880										94GG4036	
	710	1050										94GG4046	
	810	1220										94GG4056	
	910	1380										94GG4066	
	1010	1550										94GG4076	
	1210	1880										94GG4096	

*AWP

COMPONENTS

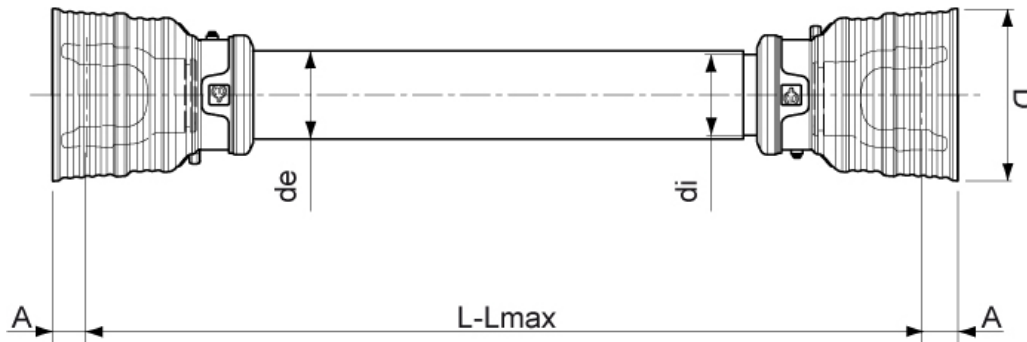


No.	Description	L [mm]	Dim.	Qty	CODE
1	SELF-THREAD. SCREW 2.9 X 9.5	-	2	12	6280309
			4		
2	GO2 PROTECTION HOOD	-	2	2	1790020
	GO4 PROTECTION HOOD		4		1790040
3	GO2 FIXING RING	-	2	2	1790022
	GO4 FIXING RING		4		1790042
4	ANTI-ROTATION CHAIN	-	2	4	1006065
			4		
5	GO2 PROTECTION BELLOWS	-	2	5	1882805
	GO4 PROTECTION BELLOWS		4	2	1884804
6	RING NUT KIT	-	2	1	1792799
			4		1794799
7	EXTRA SHORT CAP OVERALL	-	2	2	1790101
			4		
8	STOP	-	2	2	1211735
			4		
9	SAFETY SLEEVE	-	2	2	1881709
			4		
10	TOTAL PIPES	1210	2	1	9T1P097
			4		9T1P096
11	GO2 GUARD	-	2	2	9290201
	GO4 GUARD		4		9290401
12	COMPLETE BASE GUARD	1210	2	1	94EEL097
			4		94EEL096

7.10

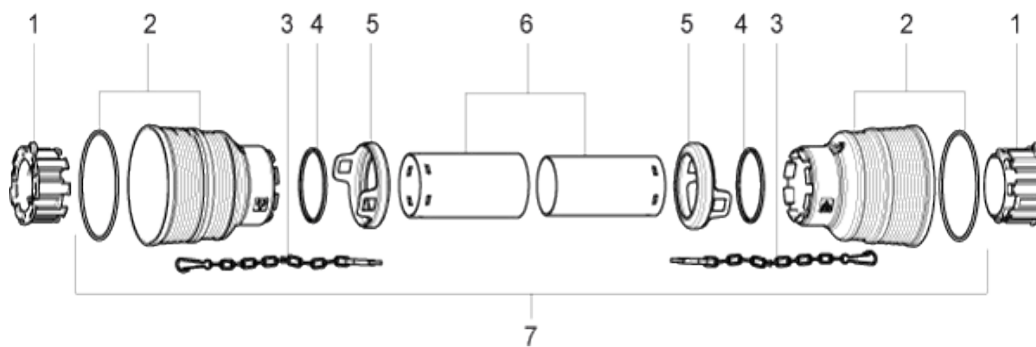
COMPLETE GUARDS PM57

STANDARD-STANDARD



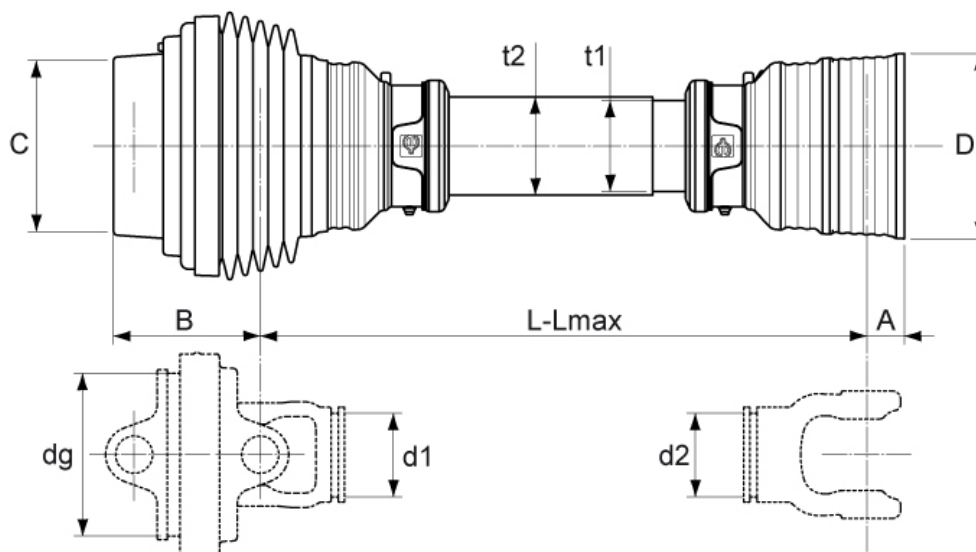
STANDARD - STANDARD							CODE	CODE EC RING NUT KIT
Dim.	L [mm]	L max [mm]	A [mm]	D [mm]	di [mm]	de [mm]		
4*	460	650	42	152	75	81	92SS5023	1795799
	510	730					92SS5028	
	610	900					92SS5038	
	710	1060					92SS5048	
	810	1230					92SS5058	
	910	1400					92SS5068	
	1010	1560					92SS5078	
	1210	1900					92SS5098	
	5	460					640	
510		720	92SS5026					
610		890	92SS5036					
710		1050	92SS5046					
810		1220	92SS5056					
910		1390	92SS5066					
1010		1550	92SS5076					
1210		1890	92SS5096					
6		460	620				27.5	
	510	710	92SS6024					
	610	870	92SS6034					
	710	1040	92SS6044					
	810	1210	92SS6054					
	910	1370	92SS6064					
	1010	1540	92SS6074					
	1210	1870	92SS6094					
	7	460	620	92SS6019				
510		710	92SS6024					
610		870	92SS6034					
710		1040	92SS6044					
810		1210	92SS6054					
910		1370	92SS6064					
1010		1540	92SS6074					
1210		1870	92SS6094					

COMPONENTS



No.	Description	L [mm]	Dim.	Qty	CODE
1	RING NUT KIT	-	4	1	1795799
			5		1795799
			6		1796799
			7		1796799
2	FULL STANDARD HOOD	-	4	2	1790503
			5		
			6		
			7		
3	ANTI-ROTATION CHAIN	-	4	2	1006065
			5		
			6		
			7		
4	STOP	-	4	2	1215735
			5		
			6		
			7		
5	SAFETY SLEEVE	-	4	2	1885709
			5		
			6		
			7		
6	INNER PIPE + OUTER PIPE	1210	4	1	9T2P098
			5		9T2P096
			6		9T2P094
			7		9T2P094
7	BASE PROTECTION	1210	4	1	92SSM098
			5		92SSM096
			6		92SSM094
			7		92SSM094

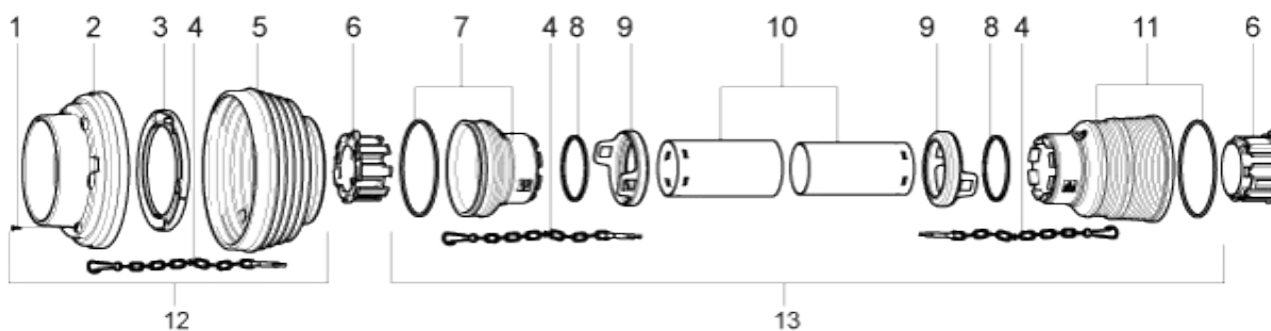
HOMOKINETIC-STANDARD



STANDARD - STANDARD												CODE	CODE KIT EC RING NUTS
Dim.	L [mm]	L max [mm]	A [mm]	D [mm]	B [mm]	C [mm]	t1 [mm]	t2 [mm]	d1 [mm]	d2 [mm]	dg [mm]		
4*	460	640	42	152	119	147	75	81	62	53	122	92GS5020	1795799
	510	720										92GS5025	
	610	890										92GS5035	
	710	1060										92GS5045	
	810	1220										92GS5055	
	910	1390										92GS5065	
	1010	1560										92GS5075	
	1210	1890										92GS5095	
6	460	620	27.5	121	121	147	75	81	68	59	134	92GS6019	1796799
	510	710										92GS6024	
	610	870										92GS6034	
	710	1040										92GS6044	
	810	1210										92GS6054	
	910	1370										92GS6064	
	1010	1540										92GS6074	
	1210	1870										92GS6094	

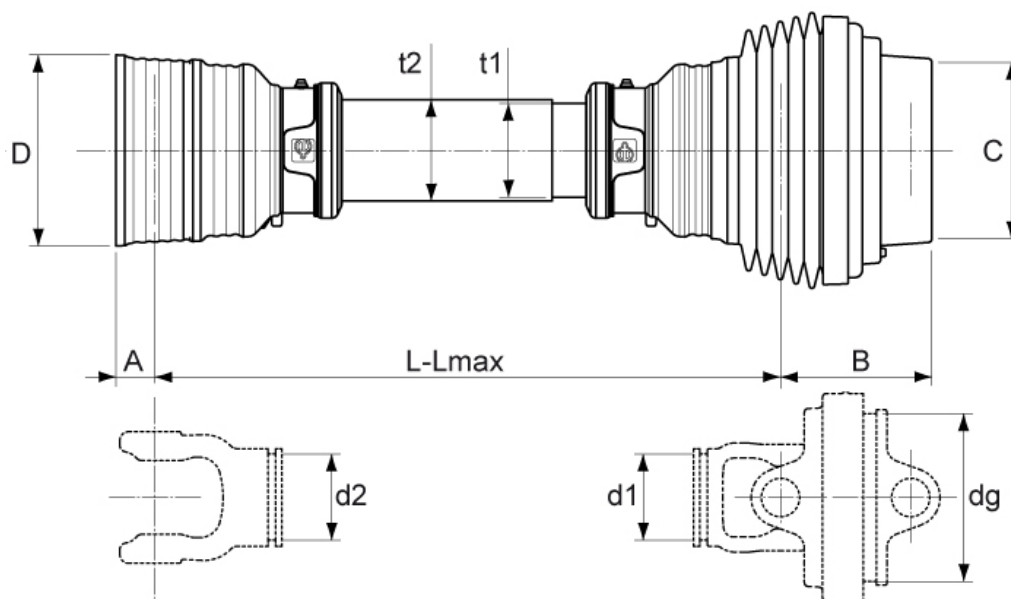
*YJP

COMPONENTS



No.	Description	L [mm]	Dim.	Qty	CODE
1	SELF-THREAD. SCREW 2.9X13	-	4	6	6280313
			6		
2	GO6 PROTECTION CAP	-	4	1	1790060
			6		
3	GO6 FIXING RING	-	4	1	1790062
			6		
4	ANTI-ROTATION CHAIN	-	4	3	1006065
			6		
5	GO6 PROTECTION BELLOWS	-	4	1	1886804
			6		
6	RING NUT KIT	-	4	1	1795799
			6		1796799
7	EXTRA SHORT CAP OVERALL	-	4	1	1790502
			6		
8	STOP	-	4	2	1215735
			6		
9	SAFETY SLEEVE	-	4	2	1885709
			6		
10	TOTAL PIPES	1210	4	1	9T2P095
			6		9T2P094
11	FULL STANDARD HOOD	-	4	1	1790503
			6		
12	GO6 GUARD	-	4	1	9290402
			6		9290601
13	COMPLETE BASE GUARD	1210	4	1	92CSM095
			6		92CSM094

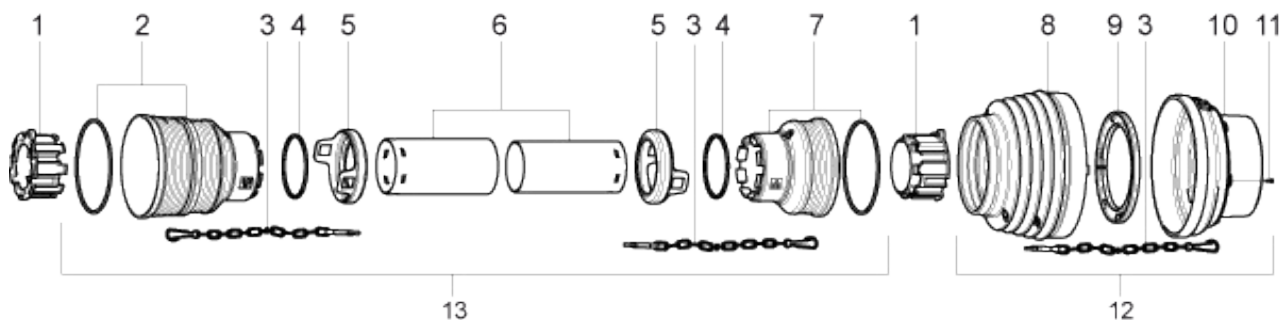
STANDARD-HOMOKINETIC



STANDARD-HOMOKINETIC												CODE	CODE EC RING NUT KIT
Dim.	L [mm]	L max [mm]	A [mm]	D [mm]	B [mm]	C [mm]	t1 [mm]	t2 [mm]	d1 [mm]	d2 [mm]	dg [mm]		
4*	460	640	42	152	119	147	75	81	62	53	122	92SG5020	1795799
	510	720										92SG5025	
	610	890										92SG5035	
	710	1060										92SG5045	
	810	1220										92SG5055	
	910	1390										92SG5065	
	1010	1560										92SG5075	
	1210	1890										92SG5095	
6	460	620	27.5	152	121	147	75	81	68	59	134	92SG6019	1796799
	510	710										92SG6024	
	610	870										92SG6034	
	710	1040										92SG6044	
	810	1210										92SG6054	
	910	1370										92SG6064	
	1010	1540										92SG6074	
	1210	1870										92SG6094	

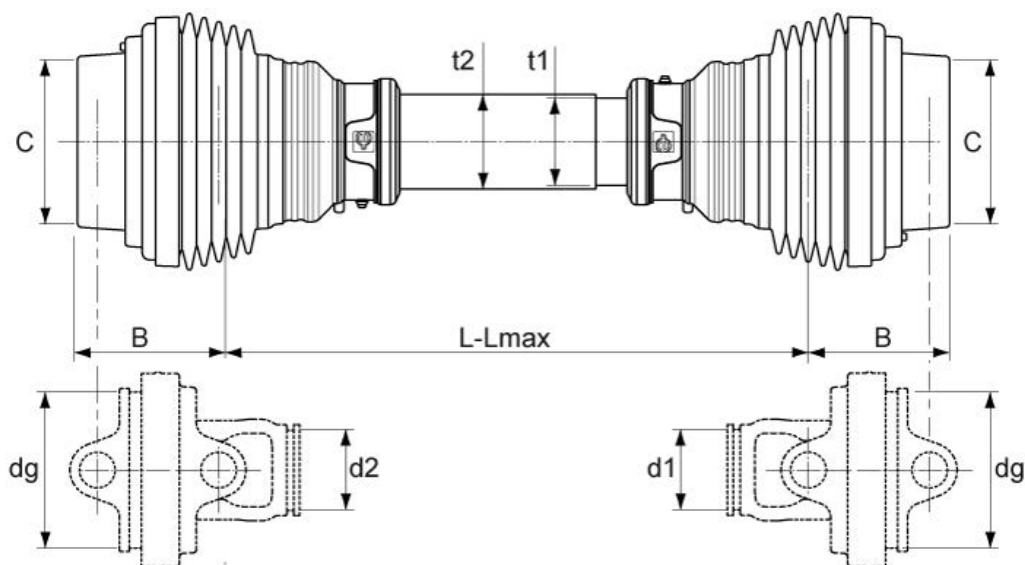
*YKP

COMPONENTS



No.	Description	L [mm]	Dim.	Qty	CODE
1	RING NUT KIT	-	4	1	1795799
			6		1796799
2	STANDARD FULL CAP	-	4	1	1790503
			6		
3	ANTI-ROTATION CHAIN	-	4	3	1006065
			6		
4	STOP	-	4	2	1215735
			6		
5	SAFETY SLEEVE	-	4	2	1885709
			6		
6	TOTAL PIPES	1210	4	1	9T2P095
			6		9T2P094
7	EXTRA SHORT CAP OVERALL	-	4	1	1790502
			6		
8	GO6 PROTECTION BELLOWS	-	4	1	1886804
			6		
9	GO6 FIXING RING	-	4	1	1790062
			6		
10	GO6 PROTECTIVE CAP	-	4	1	1790060
			6		
11	SELF-THREAD. SCREW 2.9 X 13	-	4	6	6280313
			6		
12	COMPLETE GO6 GUARD	-	4	1	9290402
			6		9290601
13	COMPLETE BASE GUARD	1210	4	1	92SCM095
			6		92SCM094

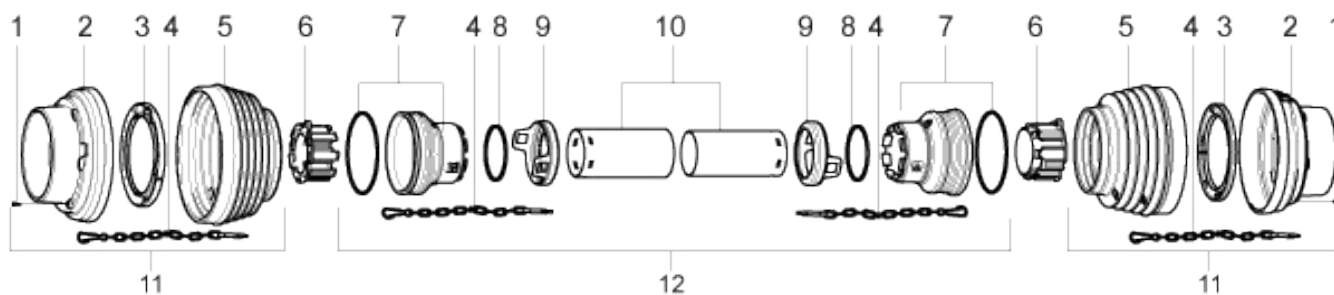
HOMOKINETIC-HOMOKINETIC



STANDARD-OMOKINETIC										CODE	CODE EC RING NUT KIT
Dim.	L [mm]	L max [mm]	B [mm]	C [mm]	t1 [mm]	t2 [mm]	d1 [mm]	d2 [mm]	dg [mm]		
4*	460	630	119	147	75	81	62	53	122	92SG5020	1795799
	510	720								92SG5025	
	610	880								92SG5035	
	710	1050								92SG5045	
	810	1220								92SG5055	
	910	1380								92SG5065	
	1010	1550								92SG5075	
	1210	1880								92SG5095	
6	460	620	121	147	75	81	68	59	134	92SG6019	1796799
	510	710								92SG6024	
	610	870								92SG6034	
	710	1040								92SG6044	
	810	1210								92SG6054	
	910	1370								92SG6064	
	1010	1540								92SG6074	
	1210	1870								92SG6094	

*YWP

COMPONENTS

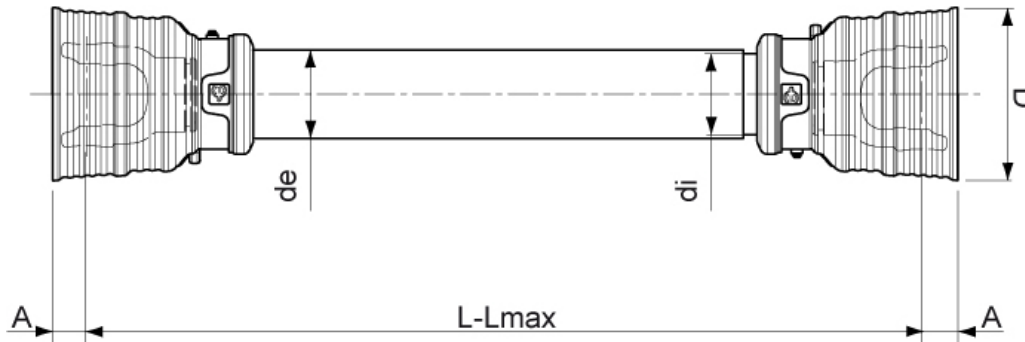


No.	Description	L [mm]	Dim.	Qty	CODE
1	SELF-THREAD. SCREW 2.9X13	-	4	12	6280313
			6		
2	GO PROTECTION CAP	-	4	2	1790060
			6		
3	GO FIXING RING	-	4	2	1790062
			6		
4	ANTI-ROTATION CHAIN	-	4	4	1006065
			6		
5	GO PROTECTION BELLOWS	-	4	2	1886804
			6		
6	RING NUT KIT	1210	4	1	1795799
			6		1796799
7	SHORT FULL CAP	-	4	2	1790502
			6		
8	STOP	-	4	2	1215735
			6		
9	SAFETY SLEEVE	-	4	2	1885709
			6		
10	TOTAL PIPES	-	4	1	9T2P094
			6		
11	GO GUARD	-	4	2	9290402
			6		9290601
12	BASE PROTECTION	-	4	1	92CCM094

7.11

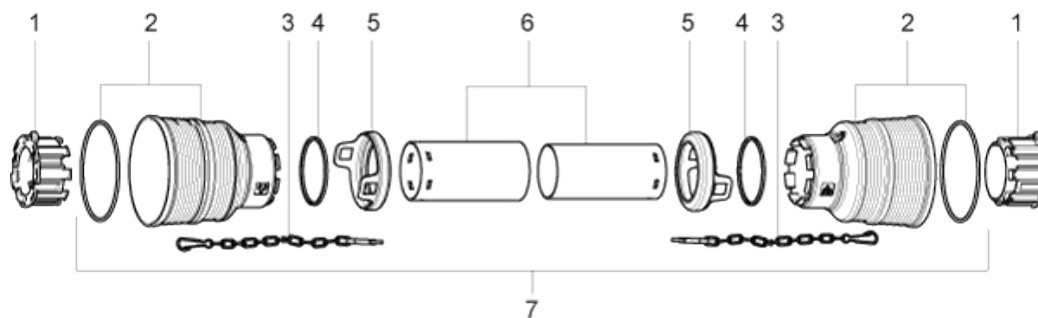
COMPLETE PROTECTIONS PM80E

STANDARD-STANDARD



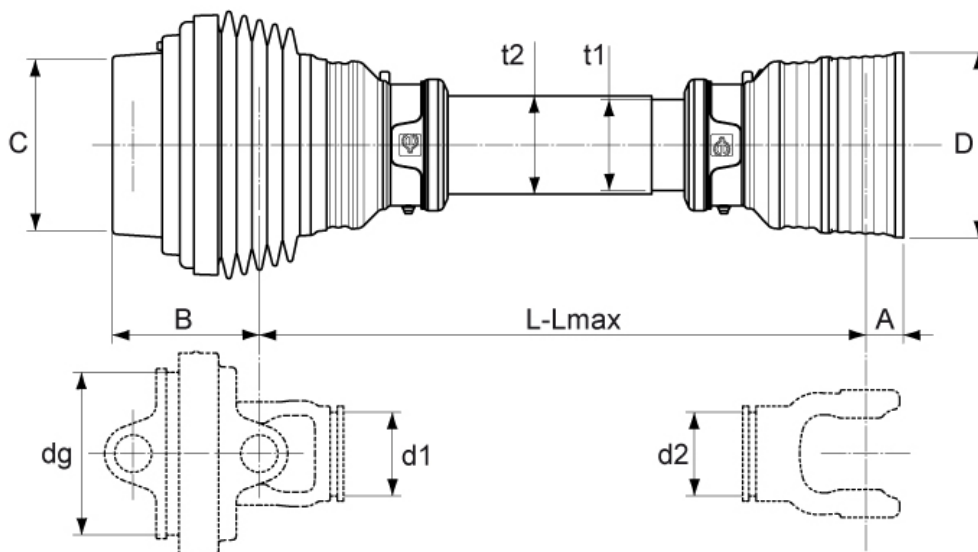
STANDARD - STANDARD							CODE	CODE EC RING NUT KIT
Dim.	L [mm]	L max [mm]	A [mm]	D [mm]	di [mm]	de [mm]		
8	460	600	48	189	88	94	92SS8016	1798799
	510	690					92SS8021	
	610	850					92SS8031	
	710	1020					92SS8041	
	810	1190					92SS8051	
	910	1350					92SS8061	
	1010	1520					92SS8071	
	1210	1850					92SS8091	
10	460	590	33				92SS8013	
	510	670					92SS8018	
	610	840					92SS8028	
	710	1000					92SS8038	
	810	1170					92SS8048	
	910	1340					92SS8058	
	1010	1500					92SS8068	
	1210	1840					92SS8088	
12	460	550	58	245			92SS12009	
	510	640					92SS12014	
	610	800					92SS12024	
	710	970					92SS12034	
	810	1140					92SS12044	
	910	1300					92SS12054	
	1010	1540					92SS12064	
	1210	1800					92SS12084	
14	460	550					92SS12009	
	510	640					92SS12014	
	610	800					92SS12024	
	710	970					92SS12034	
	810	1140					92SS12044	
	910	1300					92SS12054	
	1010	1540					92SS12064	
	1210	1800					92SS12084	

COMPONENTS



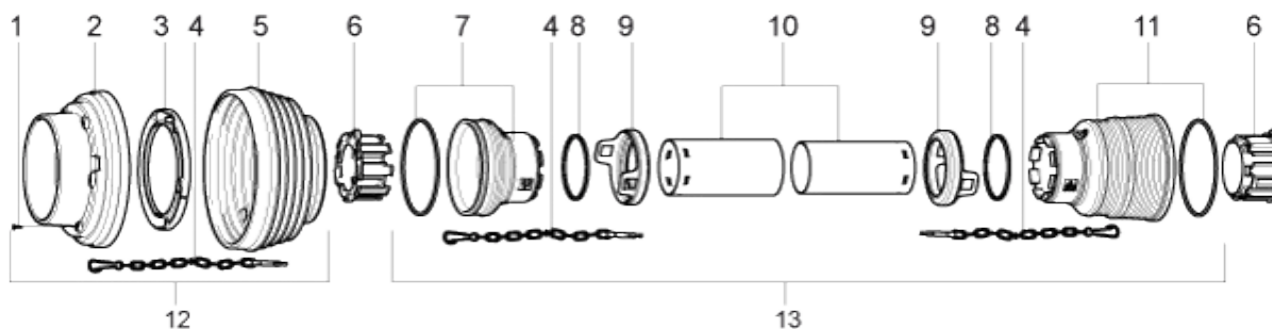
No.	Description	L [mm]	Dim.	Qty	CODE
1	RING NUT KIT	-	8	1	1798799
			10		
			12		
			14		
2	FULL STANDARD HOOD	-	8	2	1790803
			10		1790806
			12		
			14		
3	ANTI-ROTATION CHAIN	-	8	2	1006065
			10		
			12		
			14		
4	STOP	-	8	2	1218035
			10		
			12		
			14		
5	SAFETY SLEEVE	-	8	2	1888009
			10		
			12		
			14		
6	TOTAL PIPES	1210	8	1	9T4P091
			10		9T4P088
			12		9T4P084
			14		
7	BASE PROTECTION	-	8	1	92SSN091
			10		92SSN088
			12		92SSP084
			14		

HOMOKINETIC-STANDARD



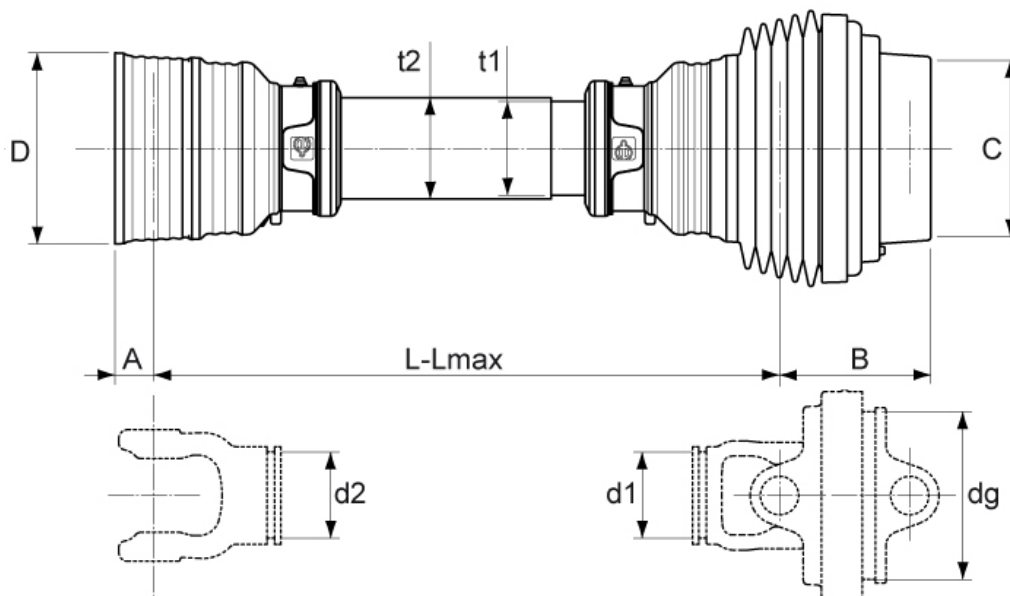
HOMOKINETIC - STANDARD												CODE	CODE EC RING NUT KIT
Dim.	L [mm]	L max [mm]	A [mm]	D [mm]	B [mm]	C [mm]	t1 [mm]	t2 [mm]	d1 [mm]	d2 [mm]	dg [mm]		
8	460	600	48	189	144	162	88	94	81	75	146	92GS8015	1798799
	510	690										92GS8020	
	610	850										92GS8030	
	710	1020										92GS8040	
	810	1190										92GS8050	
	910	1350										92GS8060	
	1010	1520										92GS8070	
	1210	1850										92GS8090	
10	460	570		189	176	200	88	94	81	75	166	92GS0011	
	510	650										92GS0016	
	610	820										92GS0026	
	710	990										92GS0036	
	810	1150										92GS0046	
	910	1320										92GS0056	
	1010	1490										92GS0066	
	1210	1820										92GS0086	

COMPONENTS



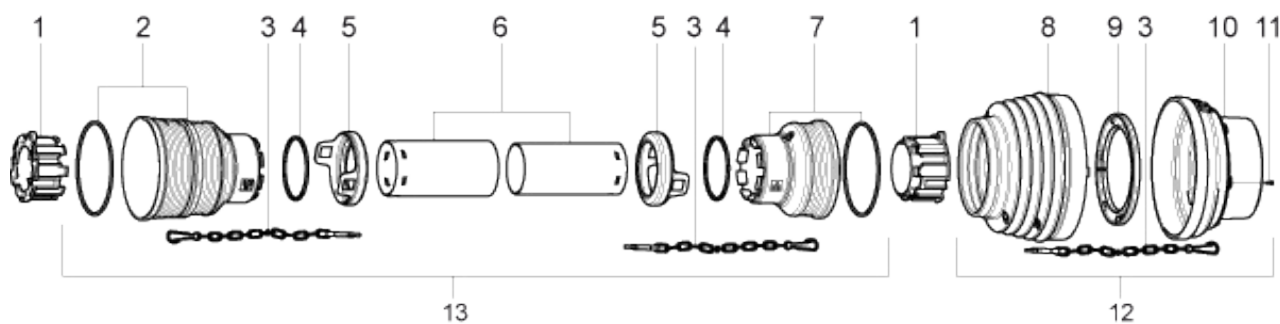
No.	Description	L [mm]	Dim.	Qty	CODE
1	SELF-THREAD. SCREW 2.9X13	-	8	8	6280313
			10		
2	GO PROTECTION CAP	-	8	1	1790080
			10		1780803
3	GO FIXING RING	-	8	1	1790082
			10		1786001
4	ANTI-ROTATION CHAIN	-	8	3	1006065
			10		
5	GO PROTECTION BELLOWS	-	8	1	1888804
			10		1880804
6	RING NUT KIT	-	8	1	1798799
			10		
7	EXTRA SHORT CAP OVERALL	-	8	1	1790805
			10		
8	STOP	-	8	2	1218035
			10		
9	SAFETY SLEEVE	-	8	2	1888009
			10		
10	TOTAL PIPES	1210	8	1	9T4P090
			10		9T4P086
11	FULL STANDARD HOOD	-	8	1	1790803
			10		
12	GO GUARD	-	8	1	9290801
			10		9291001
13	COMPLETE BASE GUARD	1210	8	1	92MSN090
			10		92MSN086

STANDARD-HOMOKINETIC



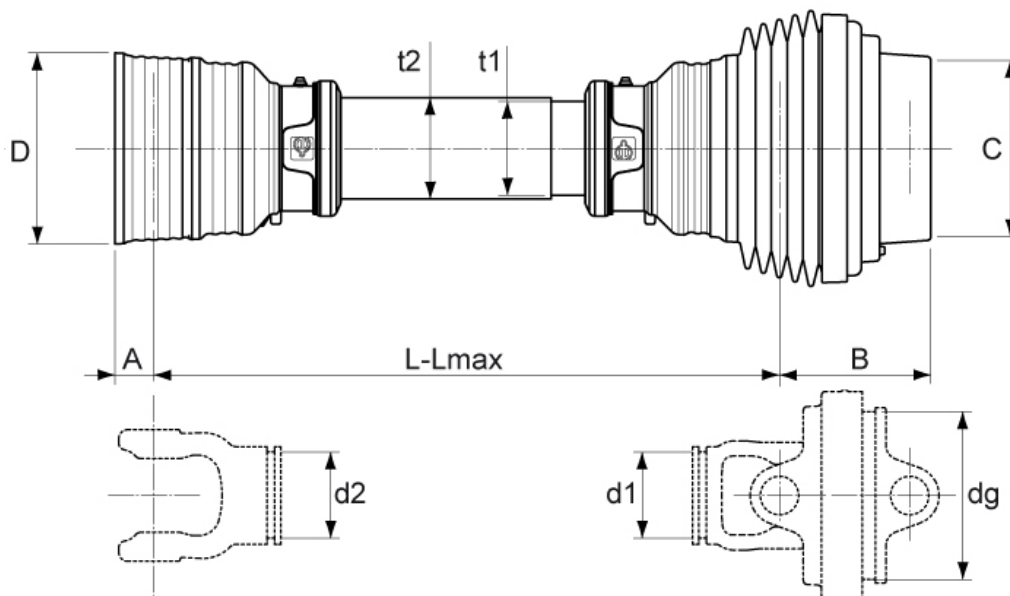
STANDARD - HOMOKINETIC												CODE	CODE EC RING NUT KIT
Dim.	L [mm]	L max [mm]	A [mm]	D [mm]	B [mm]	C [mm]	t1 [mm]	t2 [mm]	d1 [mm]	d2 [mm]	dg [mm]		
8	460	600	48	189	144	162	88	94	81	75	146	92SG8015	1798799
	510	690										92SG8020	
	610	850										92SG8030	
	710	1020										92SG8040	
	810	1190										92SG8050	
	910	1350										92SG8060	
	1010	1520										92SG8070	
	1210	1850										92SG8090	
10	460	570	33	189	176	200	88	94	81	75	166	92SG0011	
	510	650										92SG0016	
	610	820										92SG0026	
	710	990										92SG0036	
	810	1150										92SG0046	
	910	1320										92SG0056	
	1010	1490										92SG0066	
	1210	1820										92SG0086	

COMPONENTS



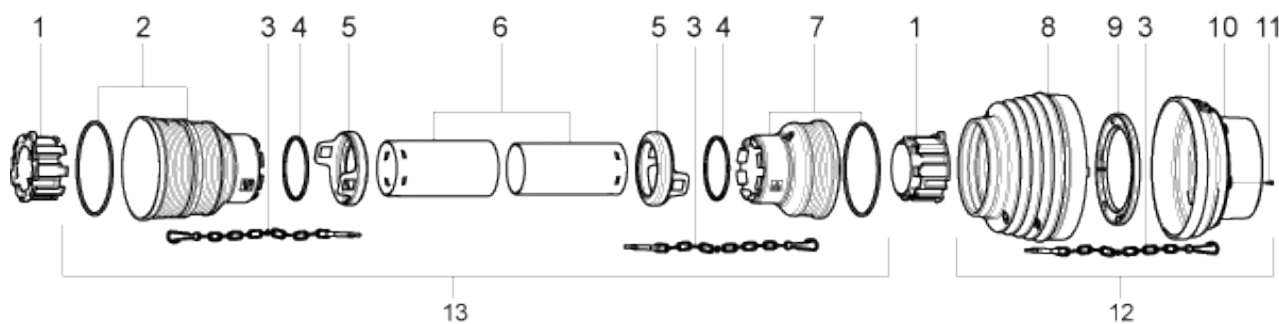
No.	Description	L [mm]	Dim.	Qty	CODE
1	RING NUT KIT	-	8	1	1798799
			10		
2	STANDARD FULL CAP	-	8	1	1790803
			10		
3	ANTI-ROTATION CHAIN	-	8	3	1006065
			10		
4	STOP	-	8	2	1218035
			10		
5	SAFETY SLEEVE	-	8	2	1888009
			10		
6	TOTAL PIPES	1210	8	1	9T4P090
			10		9T4P086
7	EXTRA SHORT CAP OVERALL	-	8	1	1790805
			10		
8	GO8 PROTECTION BELLOWS	-	8	1	1888804
			10		1880804
9	GO8 FIXING RING	-	8	1	1790082
			10		1786001
10	GO8 PROTECTIVE CAP	-	8	1	1790080
			10		1780803
11	SELF-THREAD. SCREW 2.9 X 13	-	8	6	6280313
			10		
12	COMPLETE GO8 GUARD	-	8	1	9290801
			10		9291001
13	COMPLETE BASE GUARD	1210	8	1	92MSN090
			10		92MSN086

HOMOKINETIC - HOMOKINETIC



HOMOKINETIC - HOMOKINETIC										CODE	CODE EC RING NUT KIT
Dim.	L [mm]	L max [mm]	B [mm]	C [mm]	t1 [mm]	t2 [mm]	d1 [mm]	d2 [mm]	dg [mm]		
8	460	600	144	162	88	94	81	75	146	92GG8014	1798799
	510	680								92GG8019	
	610	850								92GG8029	
	710	1010								92GG8039	
	810	1180								92GG8049	
	910	1350								92GG8059	
	1010	1510								92GG8069	
	1210	1850								92GG8089	
10	460	570	176	200					92GG0010		
	510	650							92GG0015		
	610	820							92GG0025		
	710	980							92GG0035		
	810	1150							92GG0045		
	910	1320							92GG0055		
	1010	1480							92GG0065		
	1210	1820							92GG0085		

COMPONENTS



No.	Description	L [mm]	Dim.	Qty	CODE
1	SELF-THREAD. SCREW 2.9X13	-	8	1	6280313
			10		
2	GO PROTECTION CAP	-	8	1	1790080
			10		1780803
3	GO FIXING RING	-	8	3	1790082
			10		1786001
4	ANTI-ROTATION CHAIN	-	8	2	1006065
			10		
5	GO PROTECTION BELLOWS	-	8	2	1888804
			10		1880804
6	RING NUT KIT	1210	8	1	1798799
			10		
7	EXTRA-SHORT FULL CAP	-	8	1	1790805
			10		
8	STOP	-	8	1	1218035
			10		
9	SAFETY SLEEVE	-	8	1	1888009
			10		
10	INNER TUBE + OUTER TUBE	-	8	1	9T4P089
			10		9T4P085
11	GO GUARD	-	8	6	9290801
			10		9291001
12	BASE PROTECTION	-	8	1	92MMN090
			10		92MMN085

8. GENERAL RULES ON USE AND SAFETY

GENERAL NOTES

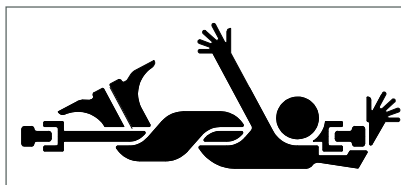
Before installing the cardan drive, make sure that it meets the appropriate requirements with regard to power, length, and any safety devices. The latter must be mounted on the machine side.

In addition, make sure that the transmission has the prescribed guard and that it is correctly integrated by the guards on the tractor side and on the machine side.

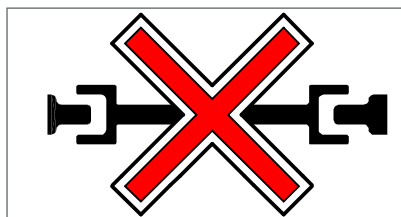
Also ensure that the transmission does not come into contact during its movement with parts of the tractor or machine. In particular, remove the tow bar of the tractor when not required and, in the case of towed machines, check that it does not come into contact with the transmission guard.

Winding hazard!!

Do not approach the area of action of the cardan drive. Do not wear shirts or clothing with handles that can be hooked by the transmission. Contact can cause very serious accidents.

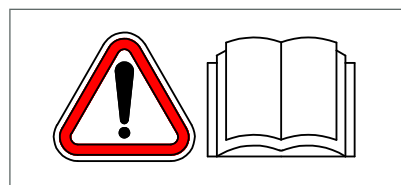


Do not work with the cardan drive without its guard or parts of it. Their safety would be severely compromised.

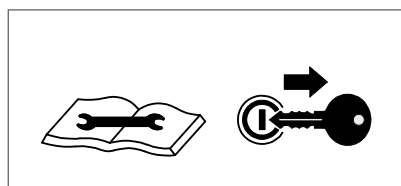


Carefully read the user manual of the cardan drive as well as those of the tractor and the operating machine before putting them into operation.

In particular, check if and what safety devices the operating machine requires and how they should be set if necessary.

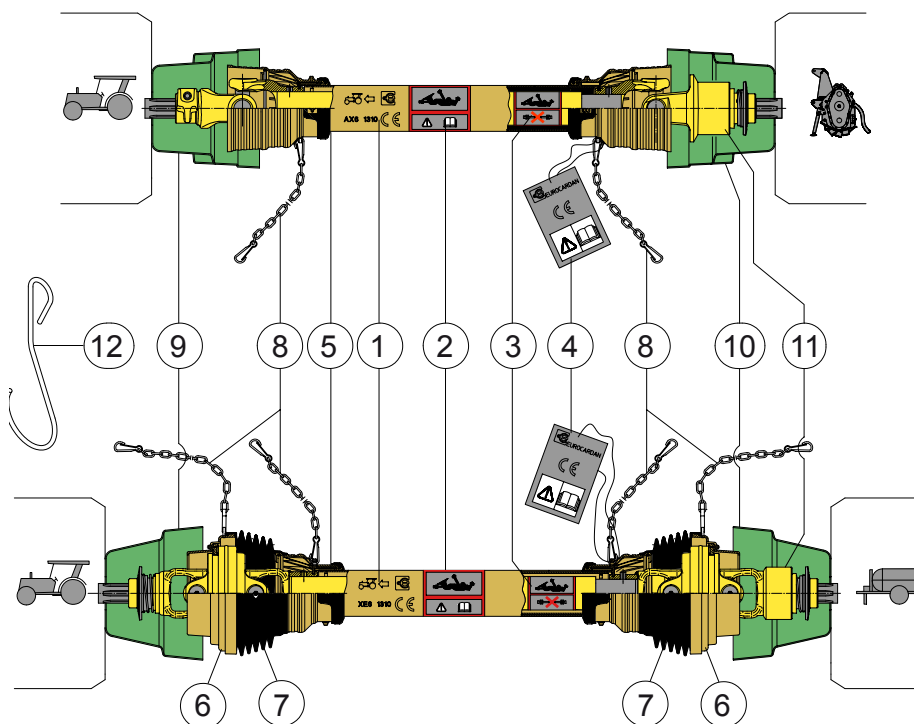


Before any maintenance operation, be sure to turn off the engine and remove the key from the tractor.



8.1 SCHEME AND DESCRIPTION OF THE LABELS

The diagram next to it represents the essential components of a cardan drive corresponding to the standards for the "CE" marking in the case of simple transmission or with homokinetic joints.



1. Identification of the shaft (series, size and length, year of production, indication of the mounting side, Eurocardan mark, CE mark);
2. External safety label;
3. Internal safety label;
4. Instruction booklet for installation, use and maintenance, with CE declaration of conformity;
5. Guard of the cardan shaft;
6. Guard of the homokinetic joint on the external side;
7. Protective bellows of the homokinetic joint on the inner side, connected to pieces 6 and 5, which guarantees complete coverage of the joint in any angular position;
8. Safety anti-rotation chains;
9. Guard of the tractor power take-off;
10. Guard of the machine's receiver shaft;
11. Safety device to be applied, if necessary, only on the machine side;
12. Cardan drive bracket detached from PTO.

All cardan drives of the EUROCARDAN are designed and manufactured in compliance with the strictest safety standards in force today.

In particular, to improve users' information on transmissions, illustrated adhesive labels are affixed with the purpose of drawing attention to the fundamental rules for the safe use of the transmission.

Normally two adhesives are applied: the first on the outer protection tube and the second, inside, on the outer tube of the transmission.

It is important to make the end user as aware as possible of compliance with safety regulations for greater and more effective accident prevention.

For the countries of the European Community, the shafts are marked "CE" and are equipped with stickers 1140010 on the outer protection tube and 1140011 on the outer tube of the transmission, as well as the use and maintenance manual depending on the guard used.

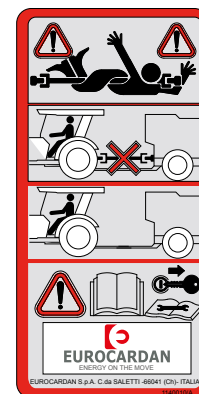
The meaning of the illustrations and the symbols adopted are described below

8.2 EXTERNAL AND INTERNAL LABEL

The external label (1140010) provides essential indications to use the cardan shaft safely, complying with the regulations in force in the country of destination. Meanwhile, the internal label (1140011) warns the user about the lack of accident protection and the presence of a risky situation. It also includes the internationally recognised 'DANGER' warning.

1. Winding hazard. Do not approach the area of action of the cardan drive. Do not wear shirts or clothing with handles that can be hooked by the transmission. Contact can cause very serious accidents;
2. Do not work under any circumstances with the shaft without its guard or parts of it. Also check the presence and efficiency of the guards on the tractor and on the machine. Replace all missing or damaged parts before using the transmission;
3. It is forbidden to approach the transmission while it is rotating. Before entering the area of action of the transmission, make sure that the engine is turned off and the key has been removed from the tractor;
4. Carefully read the user manual of the cardan drive as well as those of the tractor and the machine before putting them into operation. Before any maintenance operation, make sure that the engine is turned off and the key has been removed from the tractor;
5. Do not work with the cardan drive without its guard or parts of it. Any damaged or missing components must be immediately restored with original spare parts before starting the transmission;
6. Turn off the engine and remove the key from the tractor. Read the user manual carefully.

External label (1140010)



Internal label (1140011)

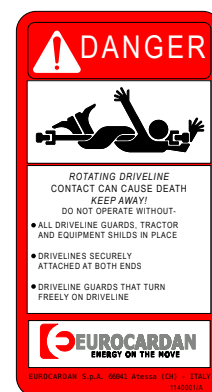


8.3 FOR THE USA AND CANADA

For the USA and Canada, the shafts are not marked "CE" and are equipped with stickers 1140001 on the external protection tube and 1140003 on the external transmission tube, as well as the use and maintenance booklet, depending on the guard used, which is added upon request.

It is necessary to specify the country in which the transmissions will be used at the time of the request in order to allow EUROCARDAN to configure them in compliance with the specific rules of the various countries.

1140001



1140003



8.4 OPERATION AND MAINTENANCE MANUAL

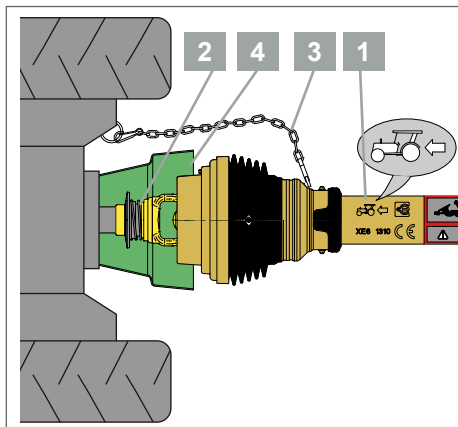
The "use and maintenance" manual provides explanations regarding the labels, information for correct and safe use of the cardan shaft, maintenance instructions and lubrication instructions. In addition, it is supplied with all the declarations of conformity required by the Machinery Directive 2006/42/EC.

Below are all the use and maintenance manuals attached to the cardan transmissions:

Guard	Instruction booklet code
PM14 - PM57 - PM80E CE	1140910 (to be verified)
PM14 - PM57 - PM80E	1140910A (to be verified)



9. COMMISSIONING

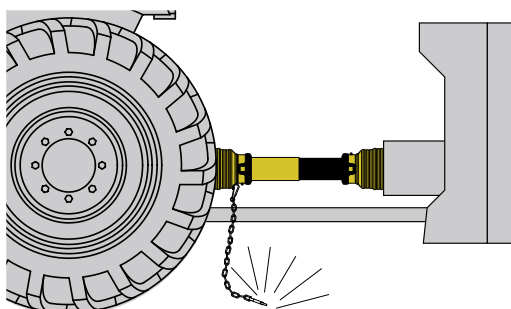


1. Make sure that the part of the cardan drive with the image of the tractor stamped on the protection tube is facing the tractor side;
2. Clean and lubricate the tractor and machine PTOs to facilitate transmission installation. Engage the end forks to the power take-offs of the tractor and operating machine, and ensure that they are correctly fixed by means of the relative attachment devices. Tighten any fixing bolts respecting the tightening table in the use and maintenance manual of the gimbal used;
3. Constrain the anti-rotation chains of the protection to fixed points of the tractor and the machine, adjusting their length so that they do not come into contact with moving parts, and do not hinder the articulation of the transmission in the various working conditions;
4. Check that the protections on the tractor side and machine side are installed correctly and that they overlap with that of the transmission, constituting an integrated system of guards as a whole.
5. Any missing or damaged parts must be immediately restored.

If the length of the chain is not adjusted correctly and the tension becomes excessive (e.g. during a machine manoeuvre), the safety mesh positioned on the protection side - recognisable as not welded - opens, causing the chain to detach from the protection. In this case, before putting the transmission back into operation, the damaged chain must be replaced with an original replacement.



It is forbidden to use the cardan drive without the anti-rotation chains and without them being correctly coupled to the drive, the tractor and the machine.



10. CARDAN SHAFT ADJUSTMENT

Eurocardan recommends not to modify your products, but to contact your dealer to indicate the nearest qualified service centre that will take care of this.

If it is necessary to shorten the pipes, proceed as follows:

1. Disassemble the guard as described in the paragraph "DISASSEMBLY and ASSEMBLY PROTECTION";
2. Connect the machine to the tractor by aligning the two PTOs;
3. Determine the length to be cut (L_t) following the procedure described:
 - Assess the maximum and minimum working lengths (fig. 9), raising and lowering the tool in the case of carried tools (fig. 10 and 11): in the case of tools towed during steering, there is the minimum length (fig. 12 and 13);
 - Make sure that at the maximum extension (L_{max}) an overlap of at least $1/3$ of the length of the pipes is guaranteed (with a minimum overlap of at least 10 cm);
 - Make sure that at the minimum extension there is a space of at least 10 mm between the metal tube and the fork (fig. 9);
 - Calculate the length of the tube to be cut L_t as the difference between the initial length of the shaft L_i and the minimum distance between the grooves of the PTO L_{min} (fig. 9).
4. Cut the metal tubes of size L_t : with the help of a file, carefully remove the burrs from the ends of the tubes and clean the shavings;
5. Subsequently, cut the plastic protection tubes of the same length L_t removed from the metal tubes;
6. Grease the inner metal tube and reassemble the guard.

If the transmission is equipped with a GS greasing system, the pipes can be shortened by a limited amount to avoid damaging the system.

If the transmission is of type BX (slotted telescopic) do not proceed with the cut but contact the nearest service centre.

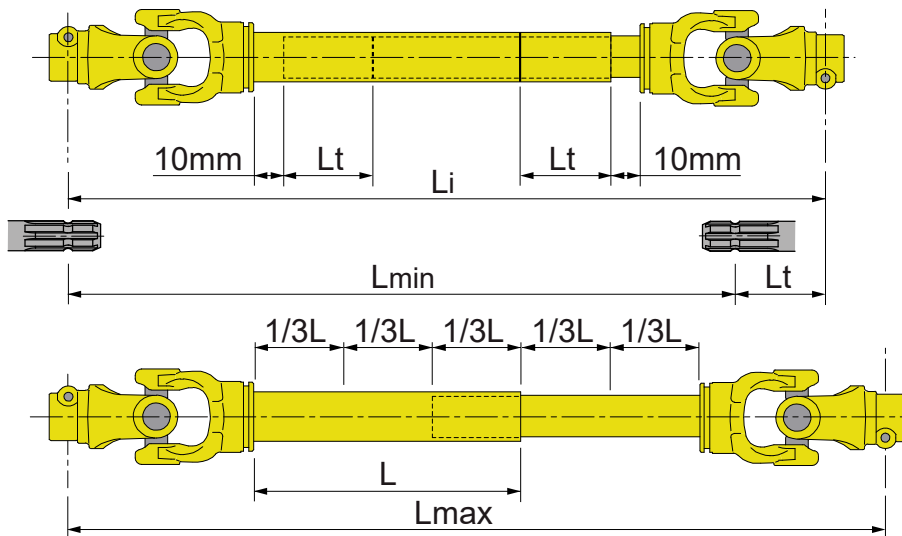


Fig. 9

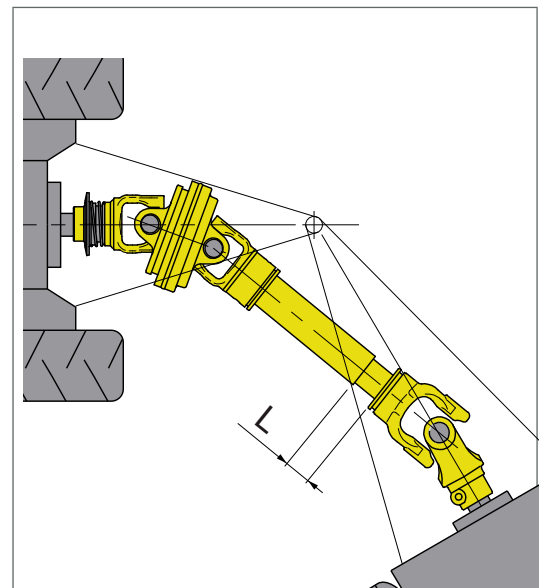


Fig. 12

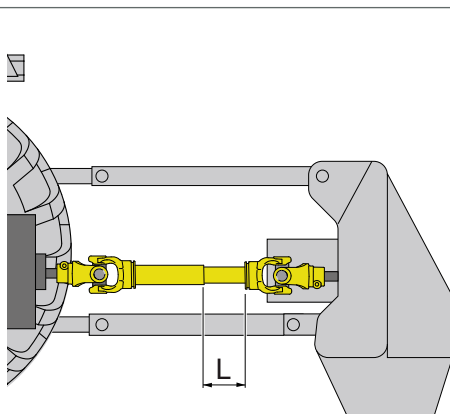


Fig. 10

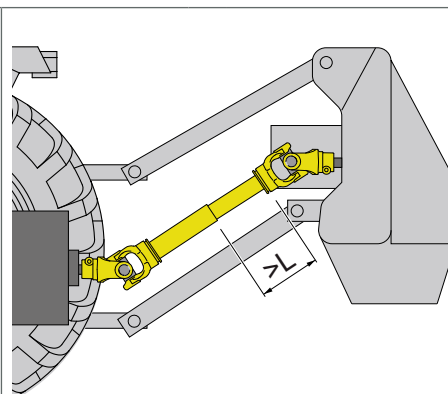
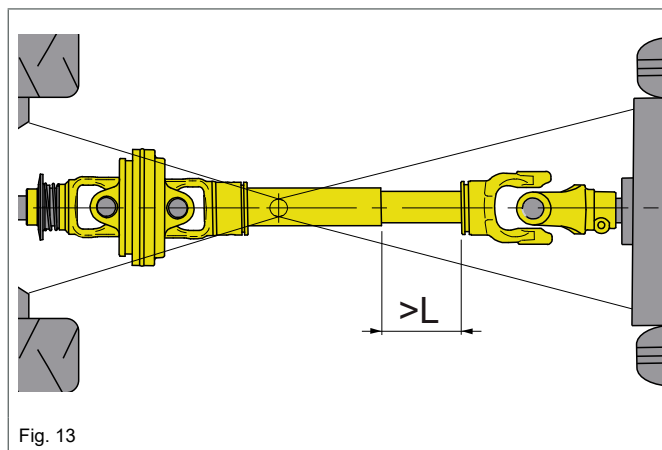


Fig. 11

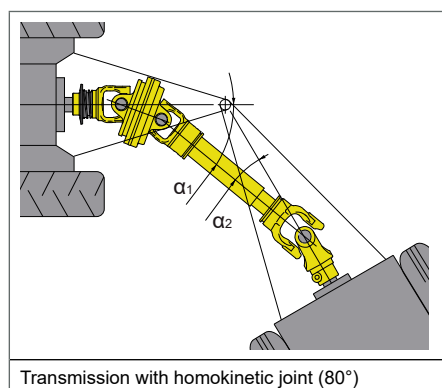
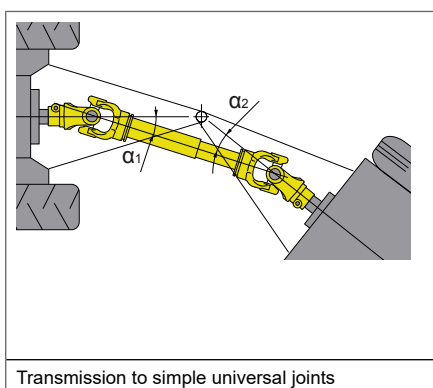


Transmission to simple universal joints.

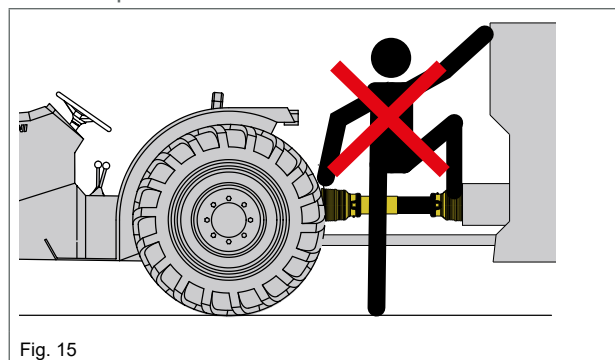
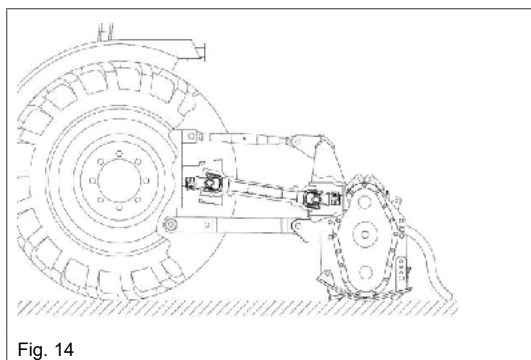
Work with joint angles (α_1 and α_2) equal and contained (not exceeding 16° at 540 rpm and 9° at 1000 rpm). Higher angles (up to 35°) are allowed only for short manoeuvres (e.g. steering) and in the absence of load. In the event of manoeuvres with joint angles greater than 35° , disconnect the PTO.

Transmission with homokinetic joint (80°).

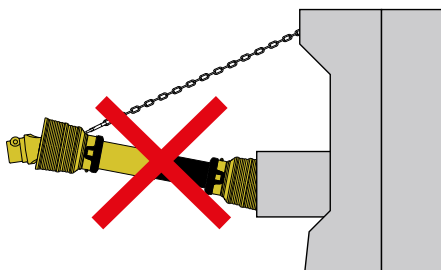
Work with joint angles of the homokinetic joint (α_1) not exceeding 25° . Higher angles (up to 80°) are allowed only for short manoeuvres (e.g. steering) and in the absence of load. Exceeding the maximum angle of 80° leads to breakage of the joint. If the transmission has a simple joint, for the latter comply with the instructions relating to simple joints.



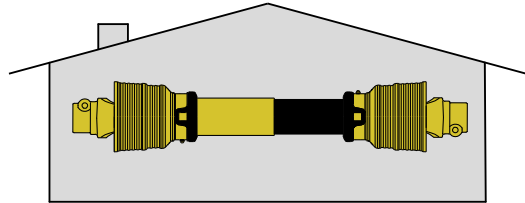
For operating machines connected to the tractor with three-point attachment (Fig. 14), always position the machine so that the corners of the transmission joint that connects the tractor's drive socket to that of the machine are contained and equal to each other. Do not use the cardan drive as a support or as a step.



Do not use the anti-rotation chain to support or transport the cardan drive when it is detached from the tractor. Use the appropriate support on the operating machine.

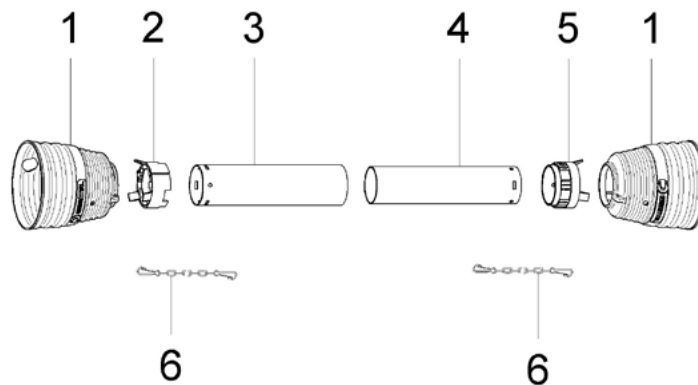


In case of long periods of inactivity, clean and grease the tree and store it away from atmospheric agents. Upon resumption of work, lubricate and check the efficiency of the various parts.



11. DISASSEMBLY AND ASSEMBLY OF THE UNIVERSAL SHAFT PROTECTION

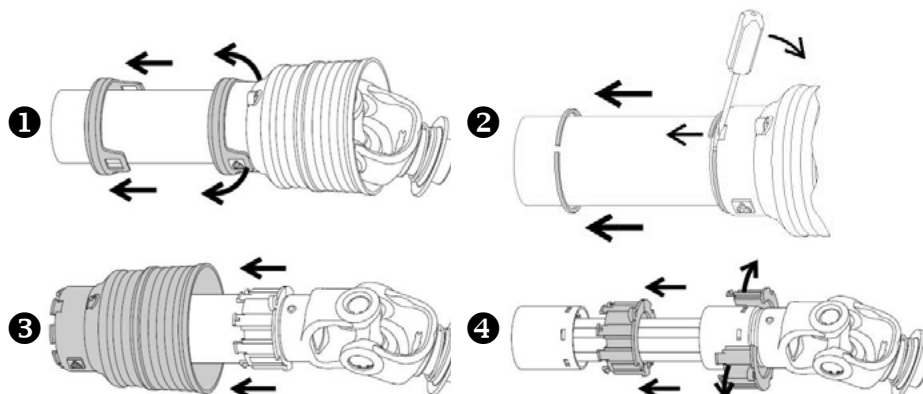
Accident protection consists of several components, many of which are made of plastic, characterised by a high resistance to UV rays and a good tolerance to temperature variations, such as:



- | | | | |
|--|--|----------------|----------------|
| 1) Hood; | 2) Connection ring nut for outer tube; | 3) Outer tube; | 4) Inner tube; |
| 5) Connection ring nut for inner tube; | 6) Anti-rotation chain. | | |

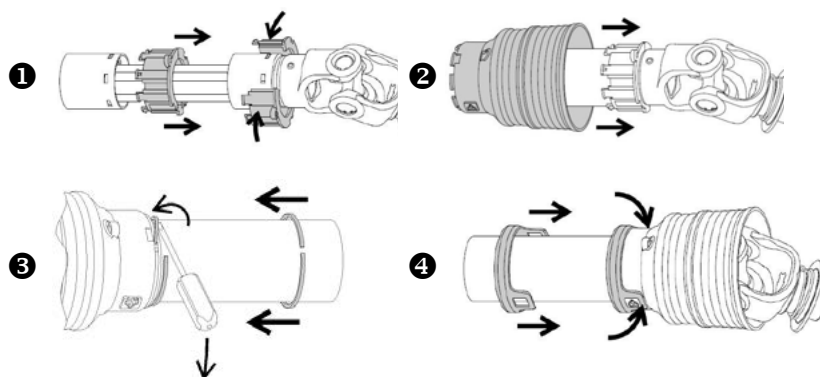
The assembly and disassembly of the guard are easy and intuitive operations, which can be carried out following the instructions below:

11.1 STANDARD PROTECTION SWABBING



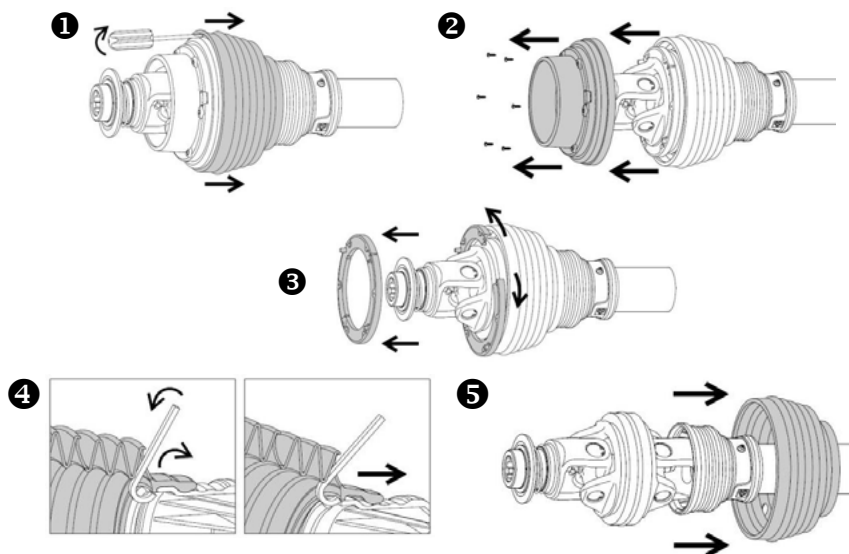
1. Using a flat screwdriver, widen the wings of the safety sleeve until it is disengaged from the two projections of the cap and remove it from the semi-joint;
2. Insert a flat screwdriver into the slot on the hood and pry out the end of the latch. Holding the latter with a finger, slide the tip of the screwdriver along the slot below the fastener until it is completely extracted;
3. Remove the cap from the semi-joint;
4. Widen the ring nut until it is disengaged from its seat on the inner fork and from the slots on the protection tube, then remove the ring nut and the tube from the semi-joint.

11.2 STANDARD PROTECTION ASSEMBLY



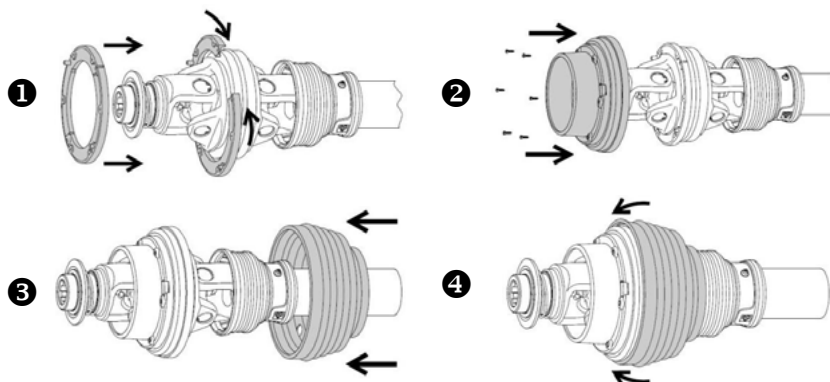
1. Insert the ring nut and tube on the semi-joint, spread the ring nut to insert it in its housing on the fork and simultaneously in the slots of the protection tube;
2. Insert the cap into the semi-joint in the correct angular position, i.e. aligning, for example, the anti-rotation chain fixing ring on the ring nut with the corresponding slot on the cap. The operation is terminated when the projections and the eyelets of the cap and ring ends match each other, creating the seat for the stop ring;
3. Thread the retainer over the tube until it reaches the base of the cap. With a flat screwdriver inserted between the protection tube and the retainer, use a lever to lift the end and insert it into the appropriate slot. Make sure that the end is placed in abutment on the centring projection of the stop located in the quarry. Continue the operation by rotating around the semi-joint until the latch is completely inserted into its housing;
4. Insert the safety sleeve on the semi-joint until the tabs of the sleeve snap on the respective projections of the hood.

11.3 HOMOKINETIC GUARD DISASSEMBLY



1. Insert a flat screwdriver between the cap and bellows by levering under the flap of the latter, slide the tip of the screwdriver circumferentially resting it on the end of the cap so as to completely release the bellows from the cap itself;
2. Unscrew the hood fixing screws with a screwdriver and remove the hood from the joint;
3. Widen the ring nut to disengage it from its seat and remove it from the joint;
4. Through the greasing hole, lift and rest the adjoining part of the bellows tooth on the hood; release the aforementioned tooth from the hood gradually (for the entire circumference) by grabbing the bellows for the first fold and pulling it back slightly;
5. Remove the bellows from the hood.

11.4 HOMOKINETIC GUARD ASSEMBLY

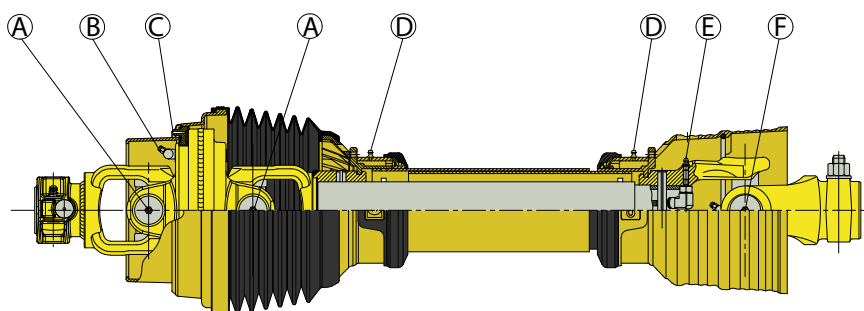


1. Insert the connecting ring nut in its seat;
2. Insert the hood by matching the appropriate holes on the projections of the ring nut and fix it on this with the screws;
3. Fit the bellows over the hood until the bellows tooth snaps over the end of the hood (reverse operation to that of the previous chapter "Disassembly and reassembly of the homokinetic guard"). Ensure that the parts are well adjacent and that they cannot slide past each other;
4. Using a flat screwdriver, hook part of the end of the bellows onto the homokinetic cap;
5. Continue the operation by rotating around the semi-joint until the bellows is completely inserted into the cap.

12. LUBRICATION AND MAINTENANCE

The lubrication of the rotating parts and telescopic elements is essential to ensure the correct operation of the components of the cardan drive, thus helping to ensure maximum durability over time. All components of the driveshaft should be inspected and, if necessary, the drive components lubricated before each use. While in operation, grease the shaft at the points indicated in the diagram, respecting the frequencies indicated (expressed in hours).

Hostile environments, such as aggressive or dusty environments, and particularly harsh conditions of use, may require more frequent lubrication than recommended. It is recommended to clean the transmission at the end of each use, then lubricate it using lithium grease for extreme pressures of NGLI grade. Lubrication of the gimbal and each semi-protection can be performed by aligning a hole of the protection with the respective grease nipple; the other grease nipples are located in easily accessible points, from which the grease can be applied as indicated in the figure below.



A: Homokinetic Cruise;

B: Homokinetic;

C: Homokinetic Cap;

D: Hose cap;

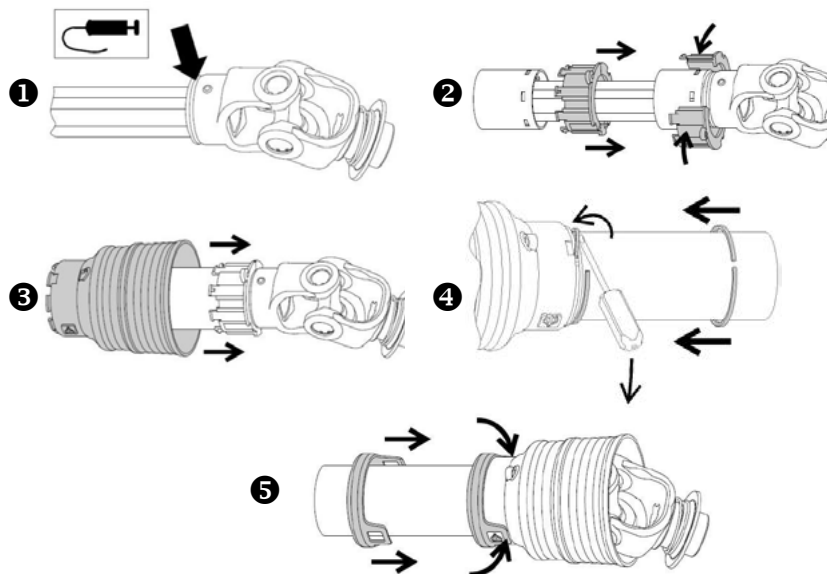
E: "GS" system;

F: Fork Cruise.

	LUBRICATION						INTERVAL				(HOURS)	
	A		B		C		D		E		F	
	Min*	Max	Min*	Max	Min*	Max	Min*	Max	Min*	Max	Min*	Max
MASTER	20	40	15	30	25	50	25	50	20	50	25	50

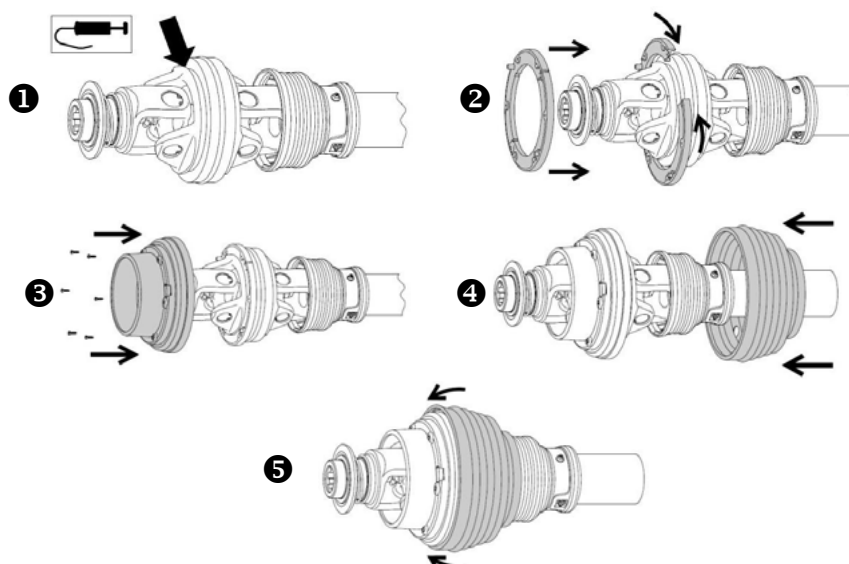
		AMOUNT OF GREASE TO BE INJECTED					
	Pos.	A	B	C	D	E	F
Size	1	4.5g	-	4.5g	4.5g	4.5g	4.5g
	2	4.5g	12g	4.5g	4.5g	4.5g	4.5g
	4	6g	15g	4.5g	6g	4.5g	4.5g
	5	6g	-	6g	6g	6g	6g
	6	7.5g	18g	6g	7.5g	6g	6g
	7	7.5g	-	6g	7.5g	6g	6g
	8	9g	21g	7.5g	9g	7.5g	7.5g
	10	9g	24g	7.5g	9g	7.5g	7.5g

12.1 STANDARD GUARD LUBRICATION



1. Grease the seat of the connection ring on the inner fork;
2. Insert the ring nut and tube on the semi-joint, spread the ring nut to insert it in its housing on the fork and simultaneously in the slots of the protection tube;
3. Insert the cap into the semi-joint in the correct angular position, i.e. aligning, for example, the anti-rotation chain fixing ring on the ring nut with the corresponding slot on the cap. The operation is terminated when the projections and the eyelets of the cap and ring ends match each other, creating the seat for the stop ring;
4. Thread the retainer over the tube until it reaches the base of the cap. With a flat screwdriver inserted between the protection tube and the retainer, use a lever to lift the end and insert it into the appropriate slot. Make sure that the end is placed in abutment on the centring projection of the stop located in the quarry. Continue the operation by rotating around the semi-joint until the latch is completely inserted into its housing;
5. Insert the safety sleeve on the semi-joint until the tabs of the sleeve snap on the respective projections of the hood.

12.2 OMOCINETIC GUARD LUBRICATION



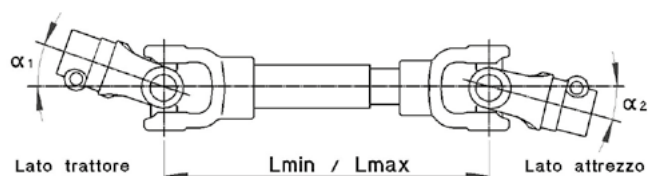
1. Grease the seat of the ring nut;
2. Insert the connecting ring nut in its seat;
3. Insert the hood by matching the appropriate holes on the projections of the ring nut and fix it on this with the screws;
4. Fit the bellows over the hood until the bellows tooth snaps over the end of the hood (reverse operation to that of the previous chapter "Disassembly and reassembly of the homokinetic guard"). Ensure that the parts are well adjacent and that they cannot slide past each other;
5. Using a flat screwdriver, hook part of the end of the bellows onto the homokinetic cap;
6. Continue the operation by rotating around the semi-joint until the bellows is completely inserted into the cap.





Customer Code _____

Date: _____

Application typePower to be transmittedKW ☐ CV ☐Transmitted torque

Nominal		Nm	Maximum		Nm
---------	--	----	---------	--	----

Rotation speed

Nominal		Rpm	Maximum		Rpm
---------	--	-----	---------	--	-----

Coupling angle

α_1		°	α_2		°
------------	--	---	------------	--	---

Distance between cruises

L min		mm	L max		mm
-------	--	----	-------	--	----

Expected Average Duration

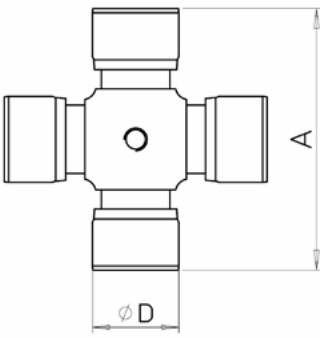
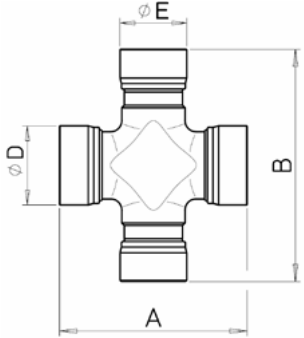
H		hours
---	--	-------

Homokinetic

NO ☐	YES (TRACTOR SIDE) ☐	YES (MACHINE SIDE) ☐
-----------------------------	---	---

		Tractor side			Tool side		
External forks	Internal profile	1"Z15 ☐	1"1/8 Z6 ☐	1"3/8 Z6 ☐	1"Z15 ☐	1"1/8 Z6 ☐	1"3/8 Z6 ☐
		1"3/8 Z21 ☐	1"3/4 Z6 ☐	1"3/4 Z21 ☐	1"3/8 Z21 ☐	1"3/4 Z6 ☐	1"3/4 Z21 ☐
		2" 1/4 Z22 ☐	D8x32x38 ☐		2" 1/4 Z22 ☐	D8x32x38 ☐	
		Other:			Other:		
	Type of attack	Quick Pin ☐	Button ☐		Quick Pin ☐	Button ☐	
		Conical conical ☐	Quick with spheres ☐		Conical conical ☐	Quick with spheres ☐	
		Bolt not interfering ☐	Bolt interfering ☐		Bolt not interfering ☐	Bolt interfering ☐	
		Other: ☐			Other: ☐		

TYPE AND SIZE OF CRUISES

STANDARD CRUISE	HOMOKINETIC CRUISE
	
A (mm) =	A (mm) =
B (mm) =	B (mm) =
	D (mm) =
	E (mm) =

TYPE AND SIZE OF PROFILES

THREE-FOILED		A (mm) =	GROOVED		A (mm) =
		B (mm) =			
		S (mm) =			
		T (mm) =			
YORK		A (mm) =	LEMON		A (mm) =
		B (mm) =			
		S (mm) =			
		T (mm) =			
STAR		A (mm) =			A (mm) =
		R (mm) =			
		S (mm) =			

Guard

YES ☐

NO ☐

Freewheel

YES ☐

NO ☐

Torque limiter

YES ☐

NO ☐

Intervention pair

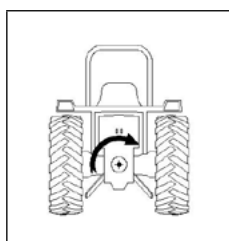
Nm

NO ☐

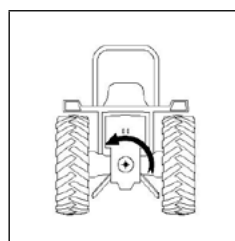
Type

discs ☐ snap ☐ automatic ☐ bolted ☐

Rotation direction



☐ Right



☐ Left

Notes

Note: for configurations not provided in this form, contact Eurocardan S.p.A.







ATESSA | ABRUZZO | ITALY

Eurocardan SpA
Via Firenze, 25
Zona Ind.le - 66041
Atessa (Ch) - Italy
Tel. +39 0872 88471

info@eurocardan.it - www.eurocardan.it



Rivenditore/Dealer

THIS CATALOG REPLACES ALL PREVIOUS CATALOGUES

The data, dimensions, and specifications shown are indicative and non-binding and are subject to change without notice.

October 2025 Edition