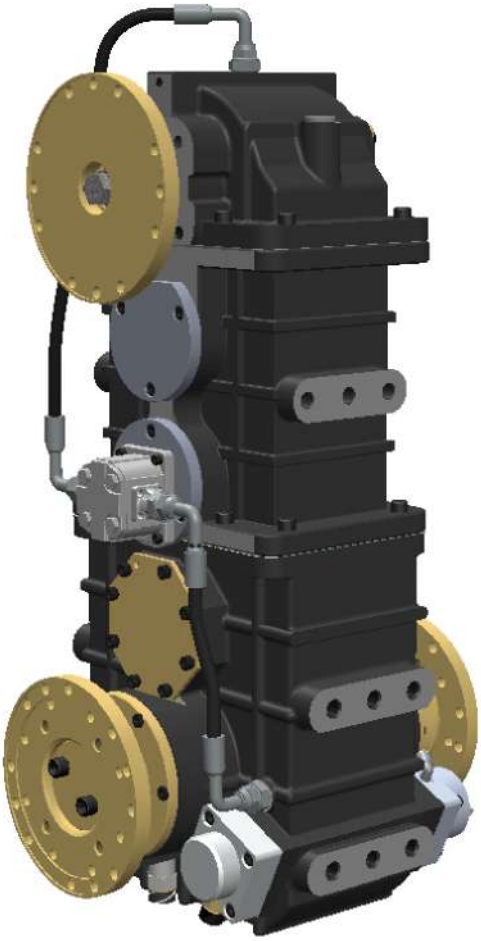
KOZANOĞLU
KOZMAKSAN

UARA.2007

Product Code

5 STAGE VERTICAL SPLIT SHAFT PTO

GENERAL INFORMATION



- **5-stage Vertical Split Shaft PTO**
- **Differential Side Pump Output**
- **Pneumatic Control System**

Applications:

- **Fire Trucks and Water Tanks**
- **Road Maintenance Trucks**
- **And Other Sutaible Applications...**

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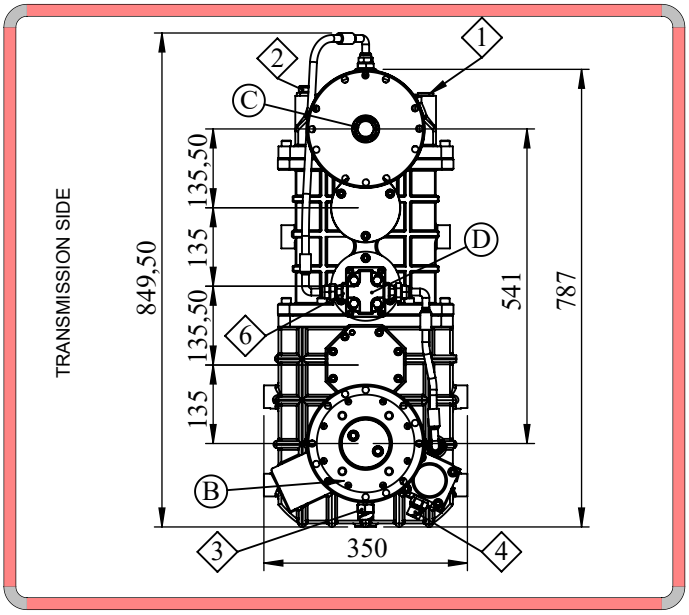
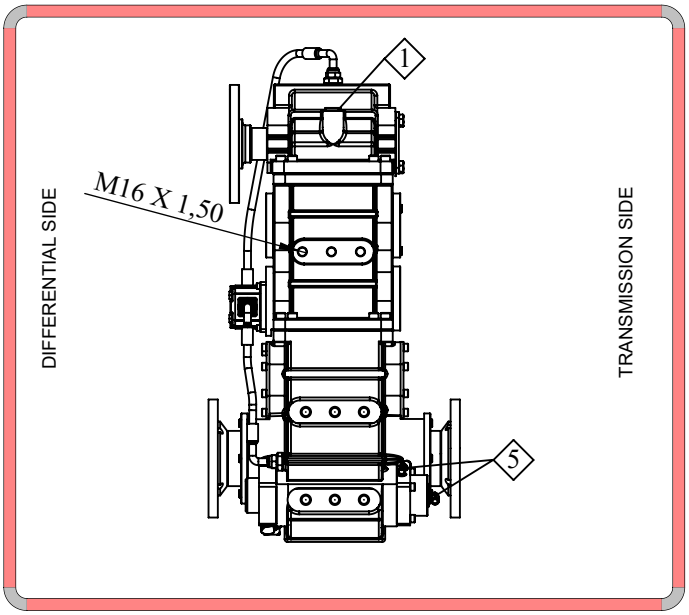
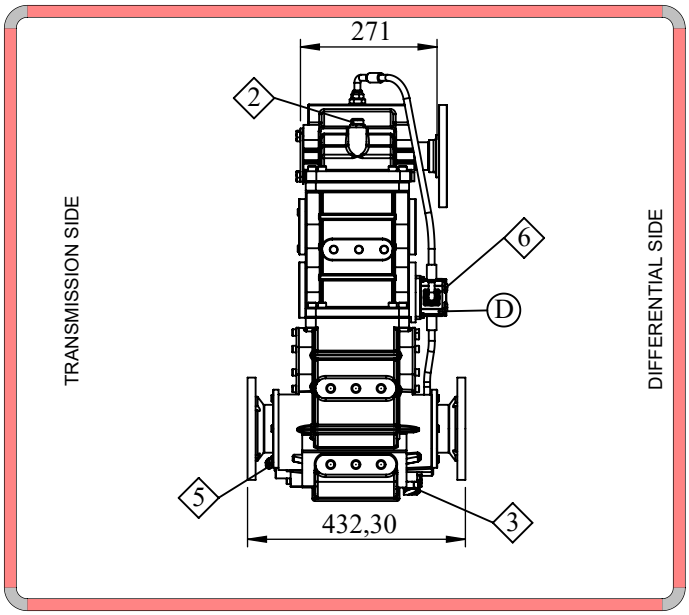
OUTPUT INFORMATION







- Ⓐ MAIN INPUT FLANGE
- Ⓑ MAIN OUTPUT FLANGE
- Ⓒ EQUIPMENT OUTPUT FLANGE
- Ⓓ OILING PUMP
- ◇1 OIL FILLING PLUG
- ◇2 AIR PLUG
- ◇3 RPM COUNTER
- ◇4 ENGAGE/DISENGAGE SENSOR
- ◇5 AIR ELBOW UNITS (R 1/4" 6mm)
- ◇6 OIL PRESSURE SENSOR

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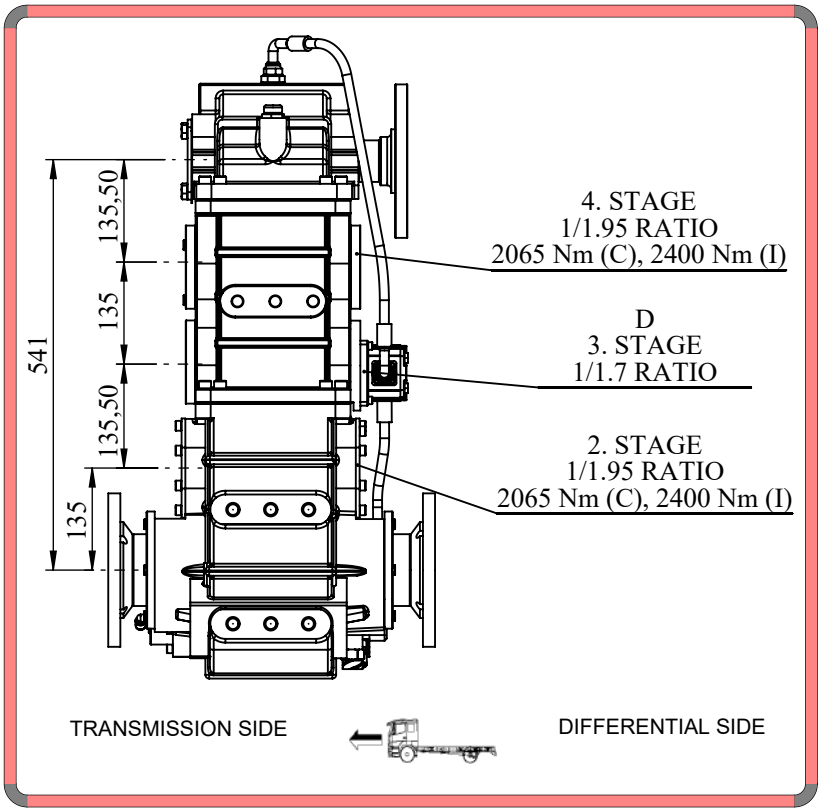
TECHNICAL SPECIFICATIONS

TECHNICAL VALUES			
	MAX. TORQUE	**RATIO**	**MAX. RPM**
Ⓐ & Ⓑ	22500 Nm Continuous 34000 Nm Intermittent	1/1	3500 RPM
Ⓒ	2065 Nm Continuous 2400 Nm Intermittent	1/1.7	2800 RPM
Ⓓ	2065 Nm Continuous 2400 Nm Intermittent	1/1.7	2800 RPM

WEIGHT	115 KG
BODY METERIAL	GGG 50 (SFERO)
OIL TYPE & QUANTITY	80W-90 & 5.2 LT



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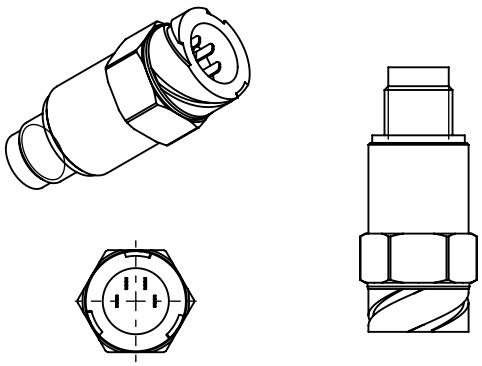
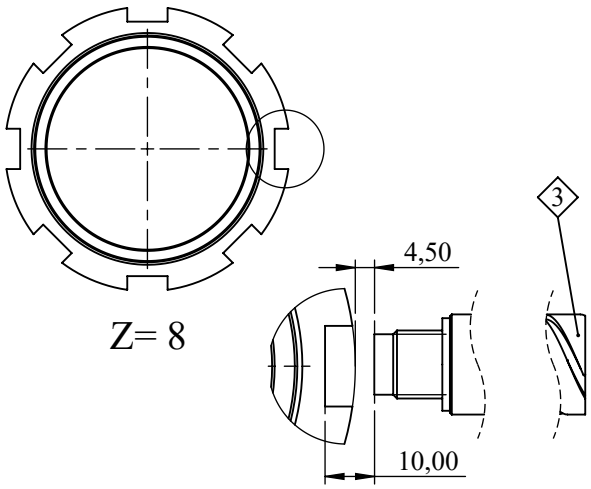
5 STAGE VERTICAL SPLIT SHAFT PTO

MISCELLANEOUS

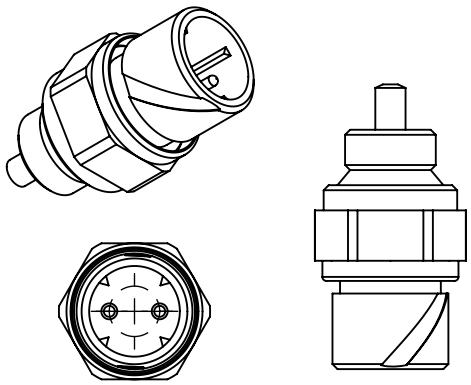
RPM COUNTER
T12-012 ◇3



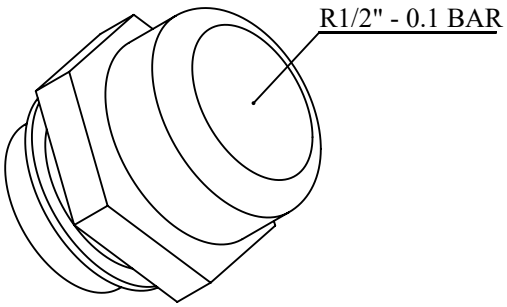
RPM COUNTER INSERT
C11-524



ENGAGE/DISENGAGE SENSOR
T12-018 ◇4



AIR PLUG
T14-020



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5 STAGE VERTICAL SPLIT SHAFT PTO

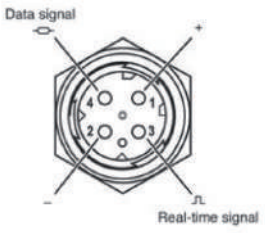
MISCELLANEOUS

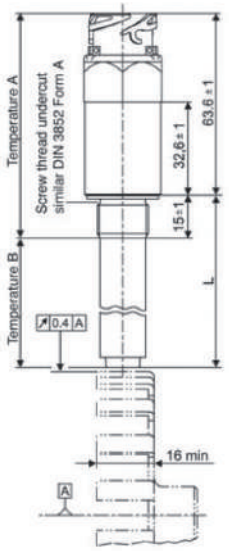
Sensor KITAS 2171-20

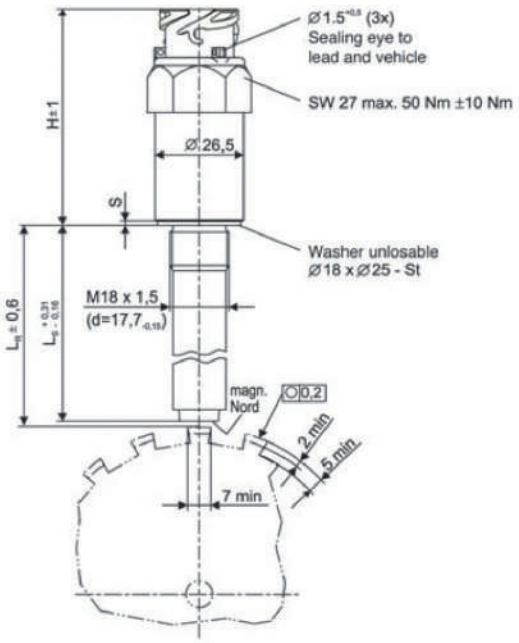
Technical Information

Operating voltage	6,5 ... 9 V
Power consumption	max. 15 mA
Operating temperature	A - 30 °C ... + 135 °C
	B - 30 °C ... + 145 °C
Storage temperature	A - 40 °C ... + 150 °C Connection
unearthed	
Signal shape (Pin 3)	rectangular
Frequency range	1 Hz - 2000 Hz
Output signal (Pin 3)	Real-time signal
	U_L max = 800 mV
	(@I = 250 µA)
	U_H min = UE - 1,5 V
	(@I = - 150 µA)
Output short-circuit	28 V, 1 min
Output signal Pin 4	Bidirectional interface
Protection against	
voltage interference	DIN
Interference protection	DIN 40 839
Protection	EH 60 529 IP 67 / IP 69K

Dimensions	approx. 19,8 / 25 / 35 / 63,2 /
(L in mm)	90 / 136,8
Weight	approx. 100 to 180 g
Resistance to vibration	30 g
Shock resistance	1000 g
Tightness	0,5 bar oil, 120 °C, 100 h
Material of pulse wheel	ST 4 LG RP
Thickness of pulse wheel	2 mm
Segment gap (typ.)	1,5 .... 2 x Segment width
Segment length (typ.)	16 mm
Air gab Sensor/pulse wheel	1,4 mm
(typ.)	
Not to be used in cases of	
extraneous magnetic fields	> 2 m
Connection of sensor	standard plug according to
to sensor lead	ISO 15170
Connection of sensor to	
vehicle gearbox	via thread M 18 x 1,5
Torque	50 Nm ±10 Nm
(wrench size)	(WS 27)







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5 STAGE VERTICAL SPLIT SHAFT PTO

MISCELLANEOUS

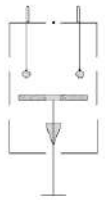
Technical Data

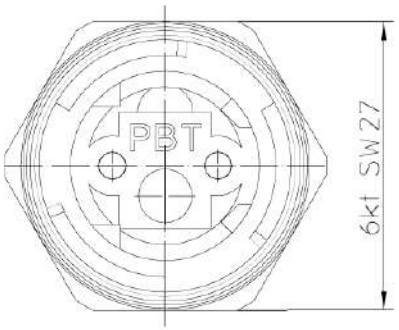
Housing:	*11SMnPb30 , gal. ZnNi*
Isolation Part:	*PBT GF 30*
Operating Pin:	*11SMnPb30 surface hardness 650HV30 +100HV30 gal.Ni*
Round Terminal:	*CuZn alloy gal. Ag*
Designation:	*manufacture date stamped on the hexagon surface*
Application:	*tappet switch for axis operating*
Max. Torque:	*max. 50 Nm*
Contact Travel:	*see drawing*
Actuation Force:	*15N ±20% (tripping point) ; 25N ±20% (end position)*
Operating Speed:	*max.0,5m/sec*
Contact:	*Ag*
Seal:	*interior IP67/IP69K iaw ISO 20653 ; connector IP00 iaw ISO 20653*
Switch Frequency	*max. 200/min*
Temperature Range:	*-40°C to +150°C*
Storage Temperature:	*-40°C to +150°C*
Vibration:	*5g / 100 to 1000Hz*
Endurance:	*2 Mio. Cycles*

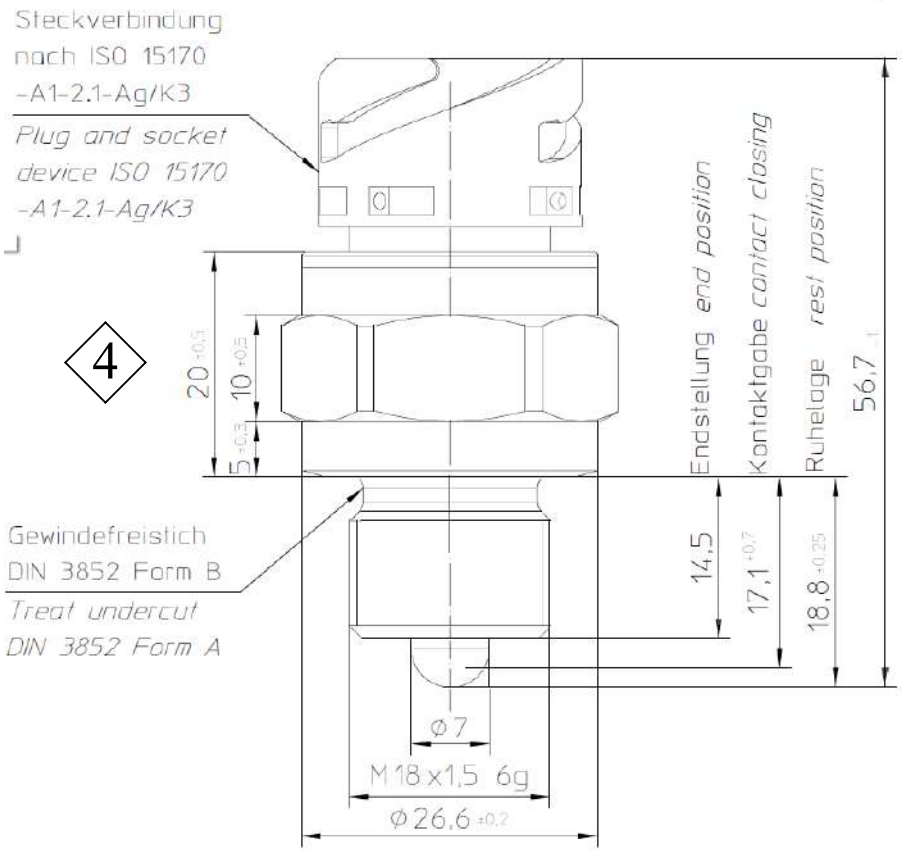
Electrical Characteristics

Voltage Range:	*9V to 32V DC*
Electrical Load:	*10mA - 3A ohmic Load*

Schaltbild
Circuit







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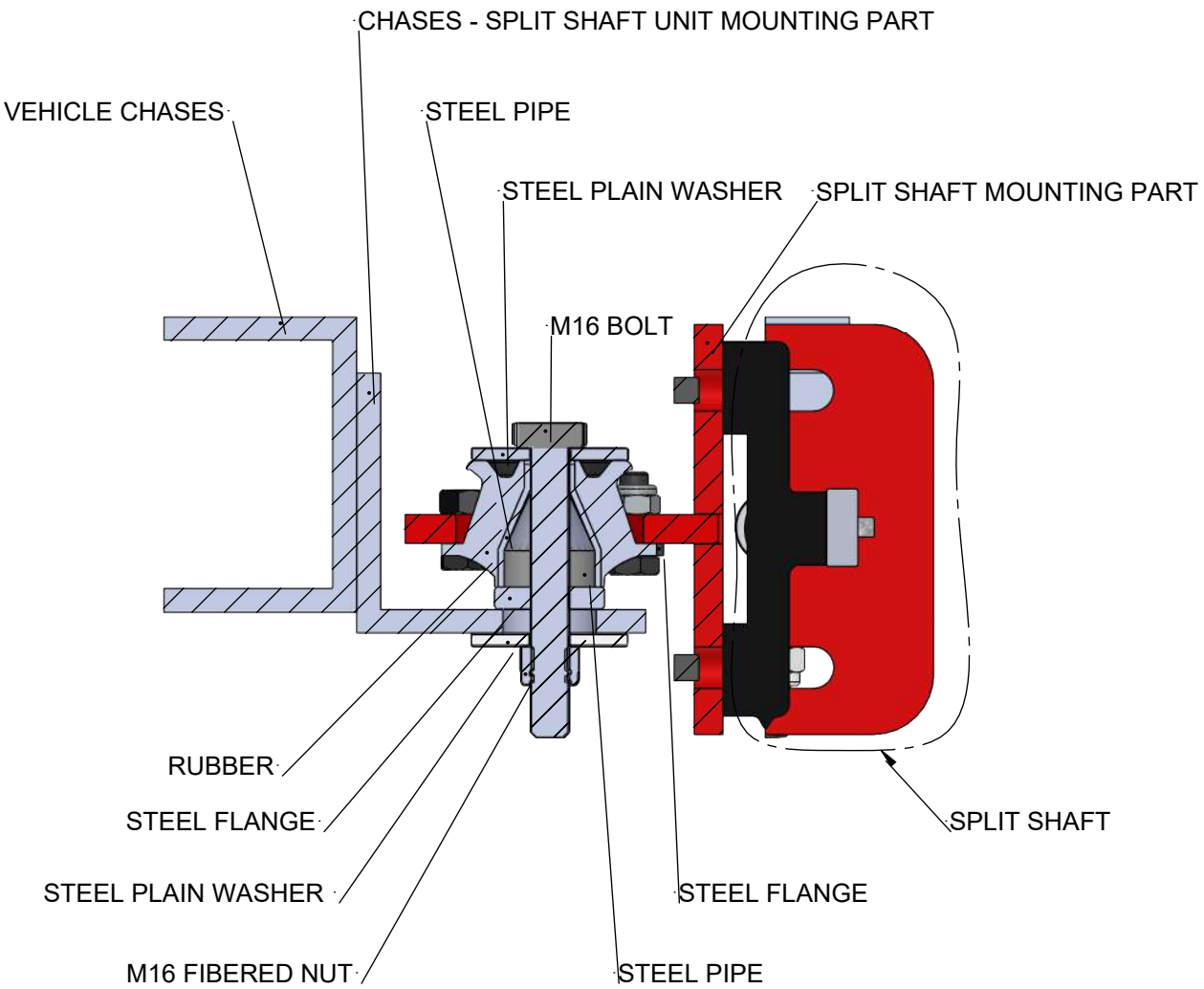
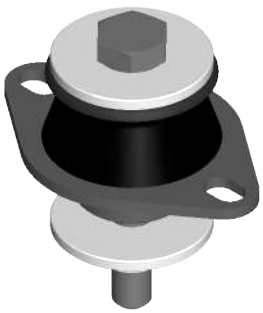
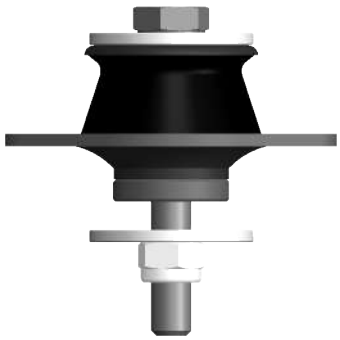
MOUNTING







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5 STAGE VERTICAL SPLIT SHAFT PTO

OUTPUT OPTIONS

Figure 1

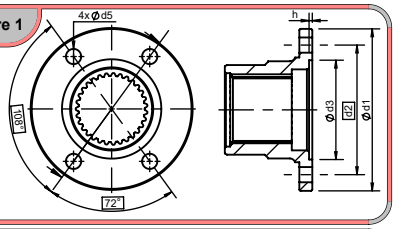

Figure 2

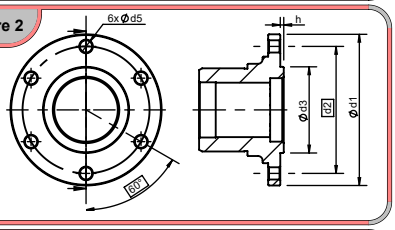

Figure 3

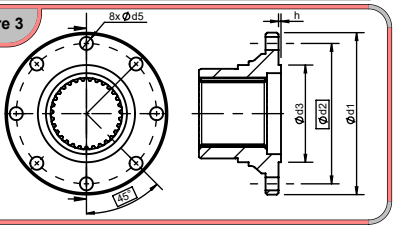

Figure 4

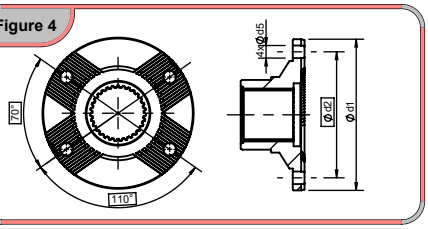

Figure 5

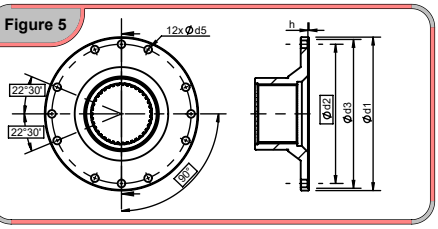

Figure 6

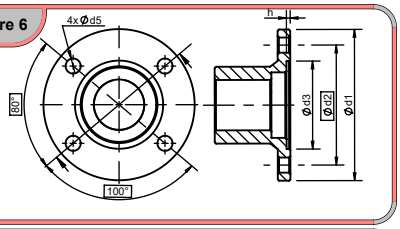

Figure 7

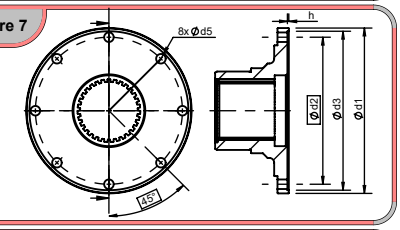

Figure 8

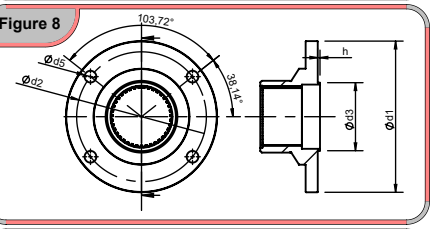

Figure 9

Figure 10

Figure 11

Figure 12

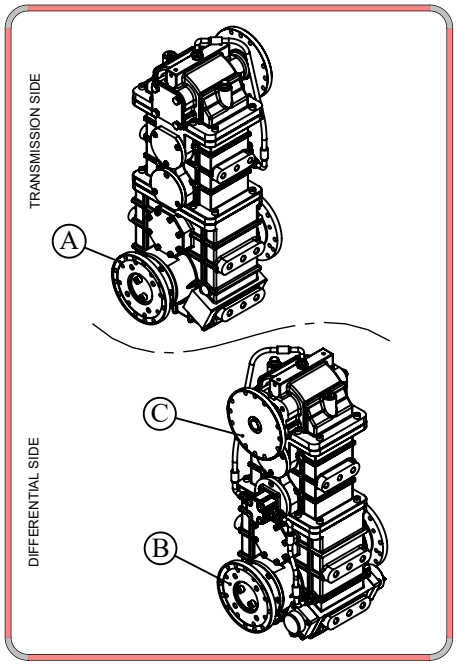

Figure No	No of Bolt	Ø d1	Ø d2	Ø d3	Ø d5	h	Standard	Ⓐ	Ⓑ	Ⓒ					
5	12	203	184,12	196,85	11,1	2	SPICER 1810 SERIES	FC06-158	FC06-158						
4	4	180	150		15		ISO 8667	C06-036	C06-036						
4	4	150	130		13		ISO 8667	C06-038	C06-038						
7	8	175	155,57	168,22	10,1	1,5	ISO 7647	C06-086	C06-086						
1	4	180	150	95	14,1	5	ISO 7647	FC06-078	FC06-078						
8	4	200	171,64	90	15,5	3	SPECIAL	FC06-228	FC06-228						
5	12	203	184,15	196,85	11,1	2	SPICER 1710 SERIES			C06-228					
7	8	203	184,15	196,85	11,1	2	SPICER 1710 SERIES			C06-229					
7	12	203	184,15	196,85	10,1	2	SPICER 1710 SERIES			C06-230					
1	4	120	100	80	12,1	2,3	ISO 7647			C06-018					
6	4	97	79,37	60,32	10,1	2,3	ISO 7647			C06-212					
2	6	100	84	57	8,1	2,3	ISO 7646			C06-170					
6	4	116	95,25	69,85	12,1	2,3	ISO 7647			C06-195					
2	8	120	101,5	75	10,1	2,3	ISO 7646			C06-115					