



HYDRAULIC COMPONENTS
HYDROSTATIC TRANSMISSIONS
GEARBOXES - ACCESSORIES

Certified Company ISO 9001 - 14001



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HT 72 / C / 102 / 1215 / E

Hydraulic Rotators



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HYDRAULIC ROTATORS

General Information

The hydraulic rotator rotates the harvesting head of a forest machine or grapple of a crane.

FR series rotators ensure high slewing power via their high torque vane motors and have oil fed from the upper stator ports through the central shaft to the lower base port outlets, to power grapples and attachments.

A wide range of FR rotators are available in two versions; shaft and flanged version with eight sizes and eighteen models from 500 to 3400 Nm torque and links to suit all forest machine applications.

The hydraulic rotators of FR series are produced and certified according to EN ISO 9001 rules.



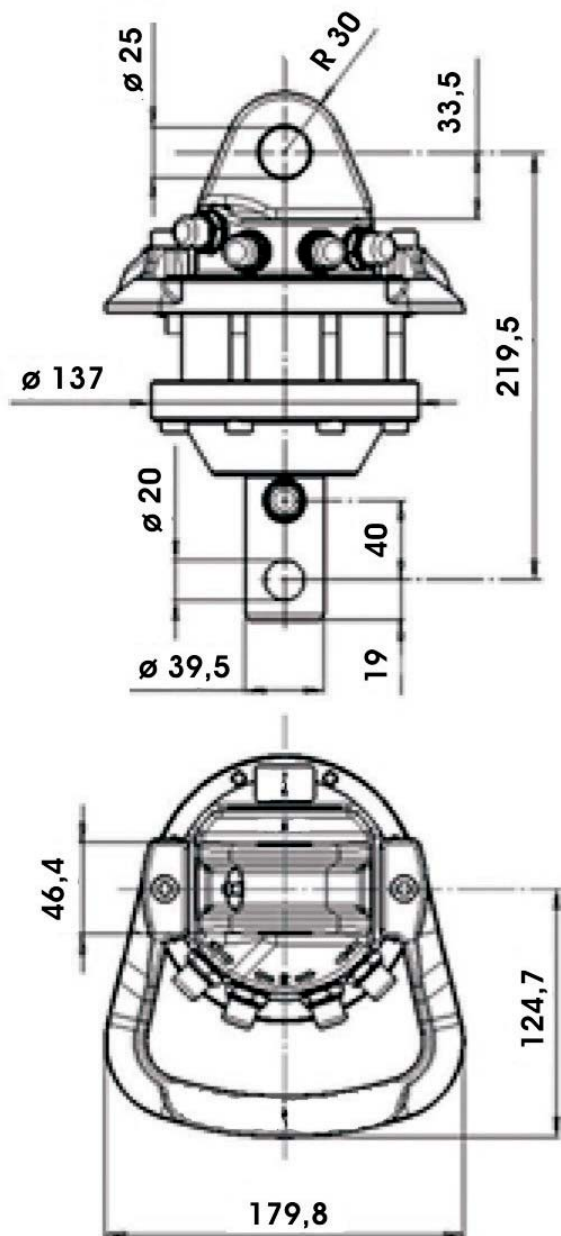
HYDRAULIC ROTATORS Selection Card

HYDRAULIC ROTATORS - SHAFT VERSION							
Rotator model	Max. Axial Load kg		Rotation Angle	Torque Nm (at 250 bar)	Rated Pressure bar	Flow lt/min.	Weight Kg
	Static	Dinamic					
FR 15	1.200	600	360° cont.	500	250	10	10
FR 35	3.500	1.750		900		20	17
FR 50	5.000	2.500		1.100		20	25
FR 55	5.500	2.700		1.300		20	28
FR 75 DBX *	7.000	3.500		1.900		25	36
FR 75 DBX / 2 *	7.000	3.500		1.900		25	38
FR 125 DBX *	12.000	6.000		2.700		30	48
FR 125 DBX / 2 *	12.000	6.000		2.700		30	51

HYDRAULIC ROTATORS - FLANGED VERSION							
Rotator model	Max. Axial Load kg		Rotation Angle	Torque Nm (at 250 bar)	Rated Pressure bar	Flow lt/min.	Weight Kg
	Static	Dinamic					
FR 35 F	3.500	1.750	360° cont.	900	250	20	22
FR 50 F	5.000	2.500		1.100		20	28
FR 55 F	5.500	2.700		1.300		20	33
FR 75 DBX - F *	7.000	3.500		1.900		25	41
FR 75 DBX - F / 2 *	7.000	3.500		1.900		25	44
FR 125 DBX - F *	12.000	6.000		2.700		30	56
FR 125 DBX - F / 2 *	12.000	6.000		2.700		30	59
FR 125 F S6 DBX*	12.000	6.000		2.900		35	77
FR 175 DBX - F*	17.000	8.500		3.400		40	70
FR 175 F S6 DBX*	16.000	8.000		3.400		40	79

* Double bearing

FR 15
SHAFT VERSION HYDRAULIC ROTATOR
Technical Characteristics

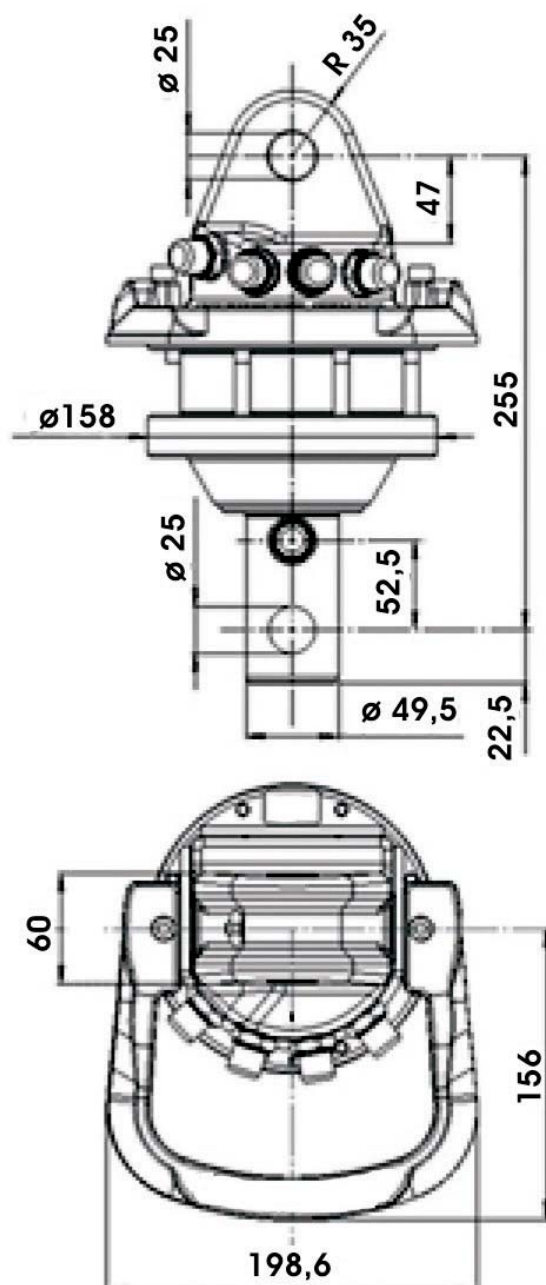


Technical Data	
Torque at 250 bar	500 Nm
Static max. Axial Load	1.200 kg
Dynamic max. Axial Load	600 kg
Weight	10 kg
Connection	1/4" BSP
Oil Flow	10 lt/min.
Continuous Rotation	360°

FR 35

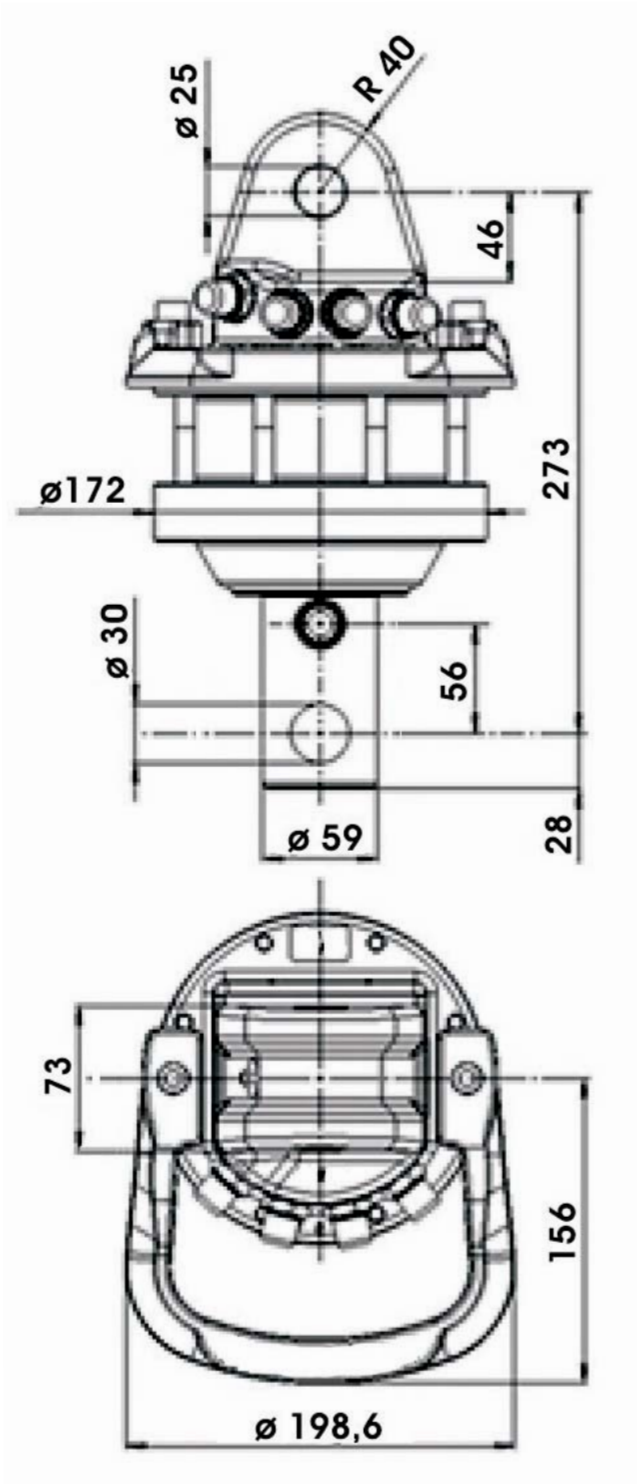
SHAFT VERSION HYDRAULIC ROTATOR

Technical Characteristics



Technical Data	
Torque at 250 bar	900 Nm
Static max. Axial Load	3.500 kg
Dynamic max. Axial Load	1.750 kg
Weight	17 kg
Connection	3/8" BSP
Oil Flow	20 lt/min.
Continuous Rotation	360°

FR 50
SHAFT VERSION HYDRAULIC ROTATOR
Technical Characteristics

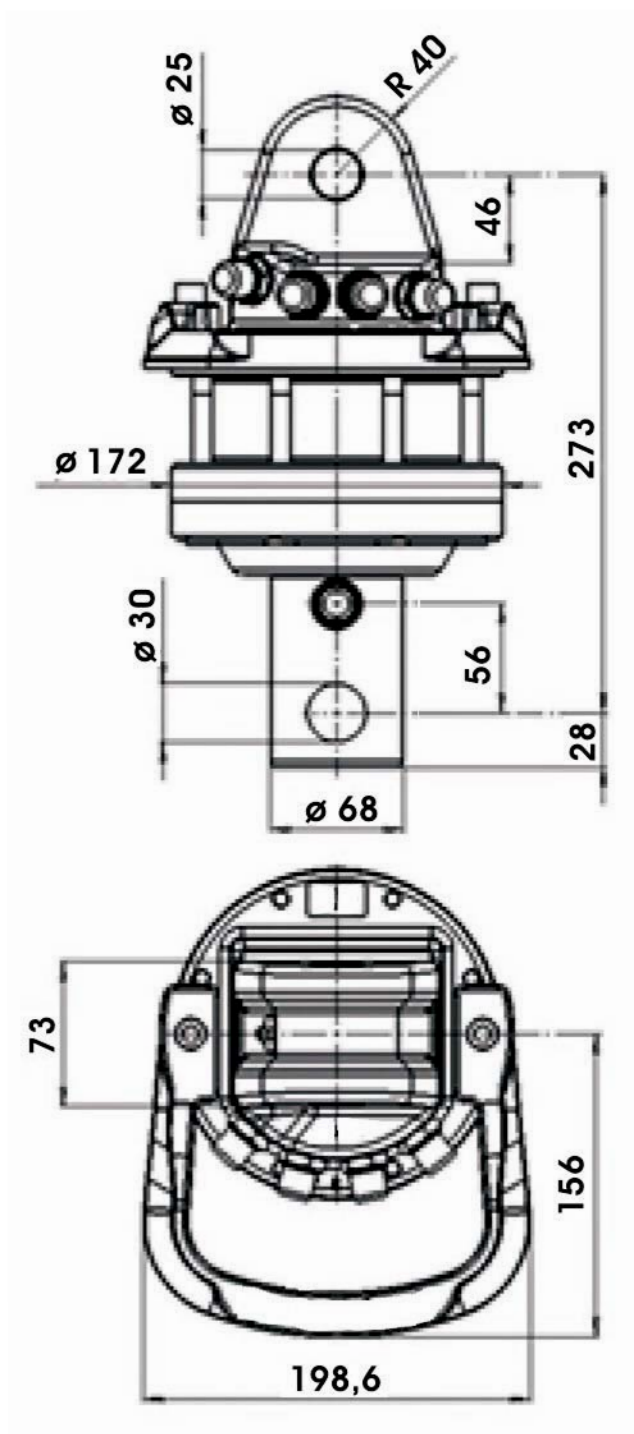


Technical Data	
Torque at 250 bar	1.100 Nm
Static max. Axial Load	5.000 kg
Dynamic max. Axial Load	2.500 kg
Weight	25 kg
Connection	3/8" BSP
Oil Flow	20 lt/min.
Continuous Rotation	360°

FR 55

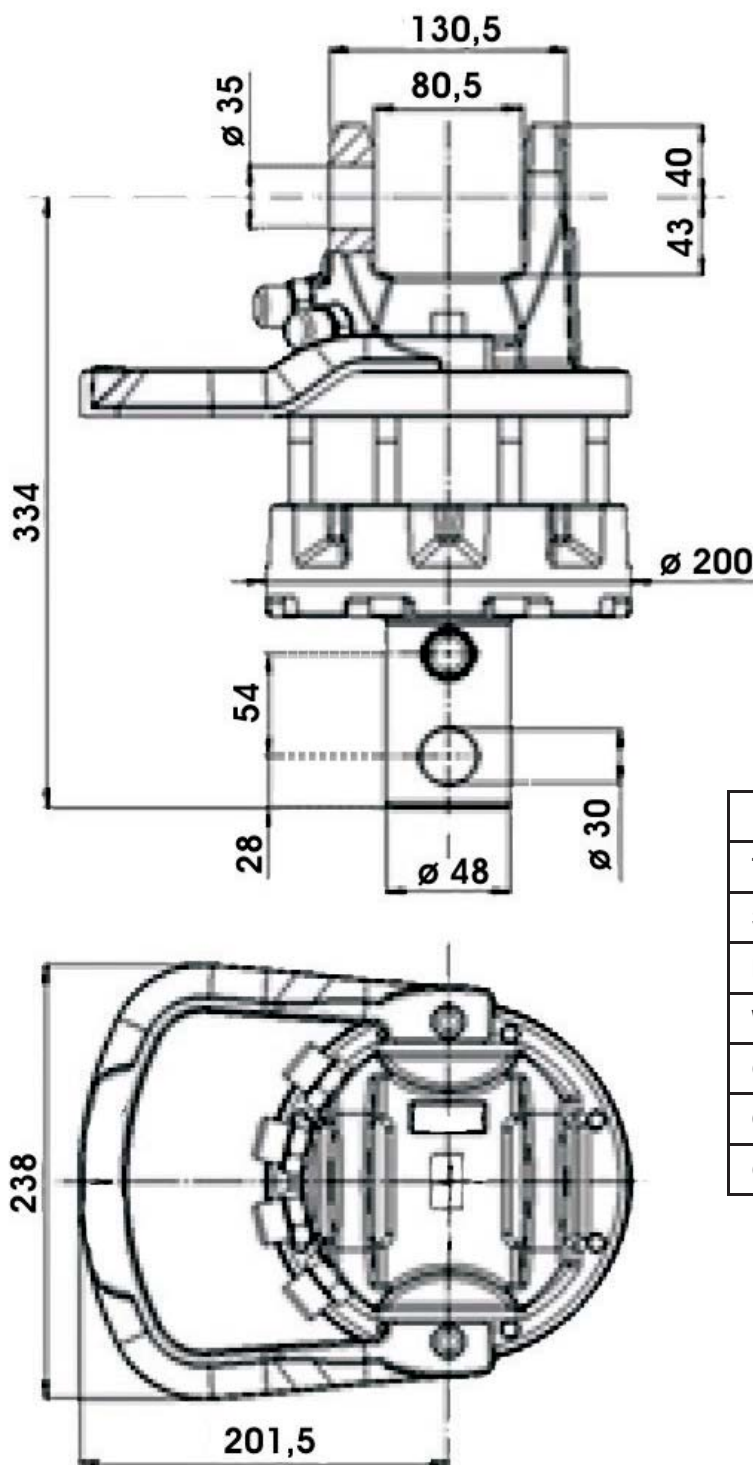
SHAFT VERSION HYDRAULIC ROTATOR

Technical Characteristics



Technical Data	
Torque at 250 bar	1.300 Nm
Static max. Axial Load	5.500 kg
Dynamic max. Axial Load	2.700 kg
Weight	28 kg
Connection	3/8" BSP
Oil Flow	20 lt/min.
Continuous Rotation	360°

FR 75 DBX
SHAFT VERSION HYDRAULIC ROTATOR
Technical Characteristics

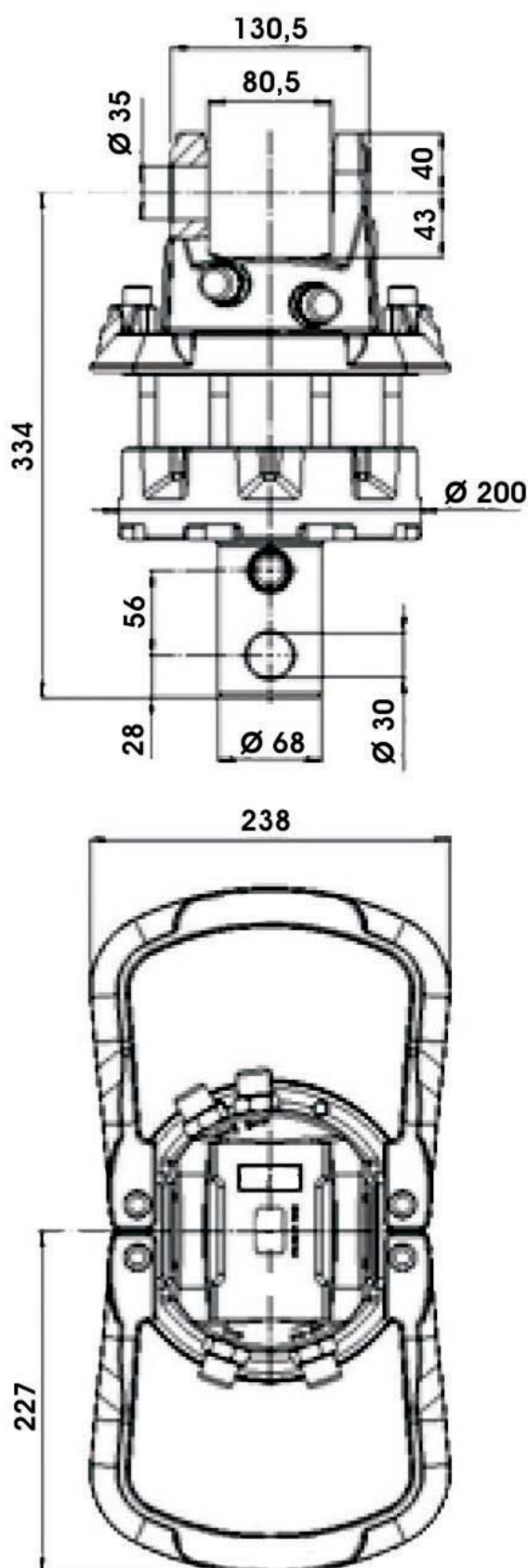


Technical Data	
Torque at 250 bar	1.900 Nm
Static max. Axial Load	7.000 kg
Dynamic max. Axial Load	3.500 kg
Weight	36
Connection	1/2" BSP
Oil Flow	25 lt/min.
Continuous Rotation	360°

FR 75 DBX/2

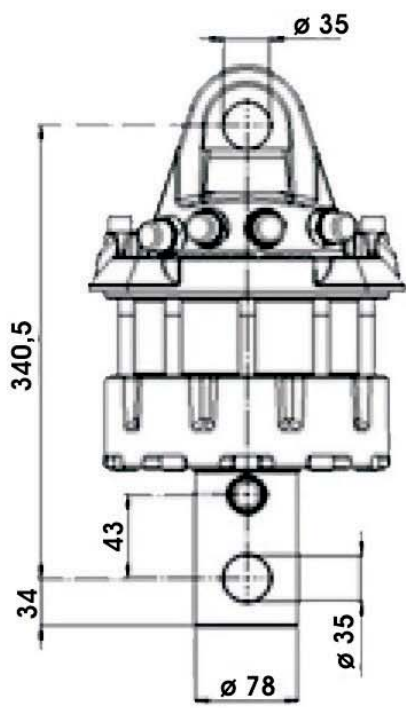
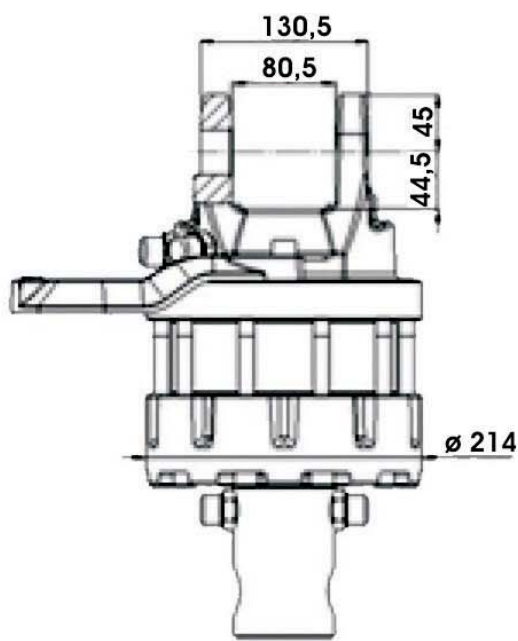
SHAFT VERSION HYDRAULIC ROTATOR

Technical Characteristics

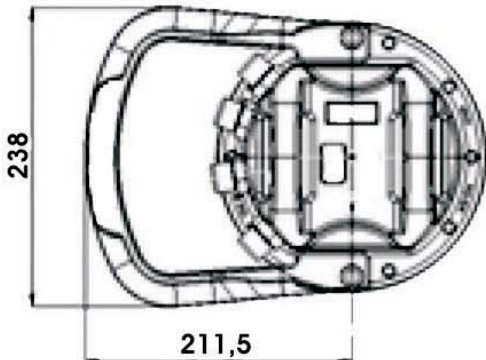


Technical Data	
Torque at 250 bar	1.900 Nm
Static max. Axial Load	7.000 kg
Dynamic max. Axial Load	3.500 kg
Weight	38
Connection	1/2" BSP
Oil Flow	25 lt/min.
Continuous Rotation	360°

FR 125 DBX
SHAFT VERSION HYDRAULIC ROTATOR
Technical Characteristics



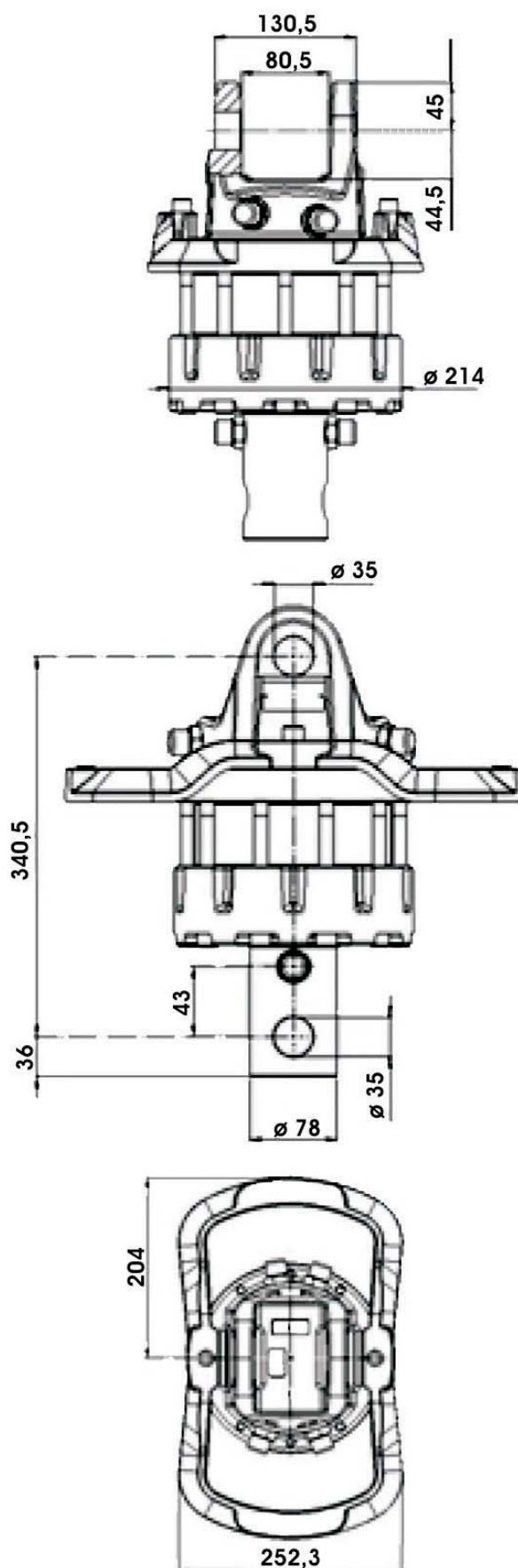
Technical Data	
Torque at 250 bar	2.700 Nm
Static max. Axial Load	12.000 kg
Dynamic max. Axial Load	6.000 kg
Weight	48
Connection	1/2" BSP
Oil Flow	30 lt/min.
Continuous Rotation	360°



FR 125 DBX/2

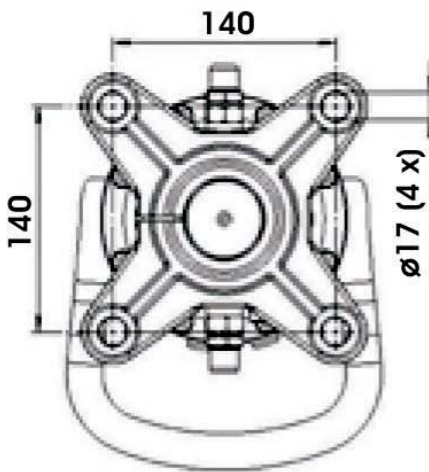
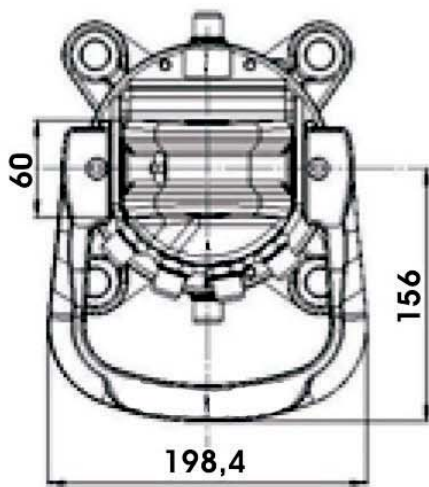
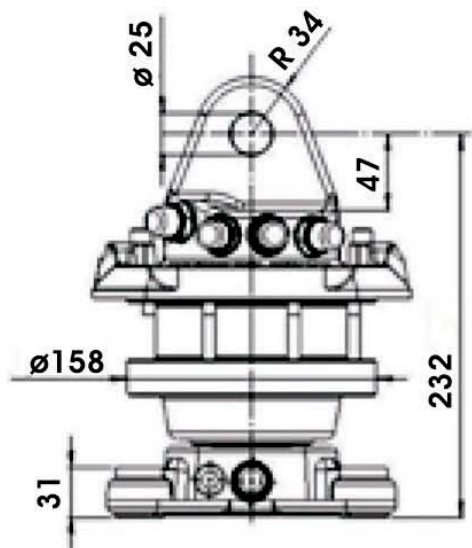
SHAFT VERSION HYDRAULIC ROTATOR

Technical Characteristics



Technical Data	
Torque at 250 bar	2.700 Nm
Static max. Axial Load	12.000 kg
Dynamic max. Axial Load	6.000 kg
Weight	51
Connection	1/2" BSP
Oil Flow	30 lt/min.
Continuous Rotation	360°

FR 35 F
FLANGED VERSION HYDRAULIC ROTATOR
Technical Characteristics

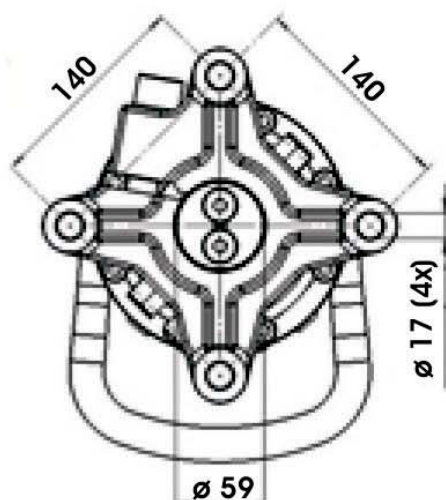
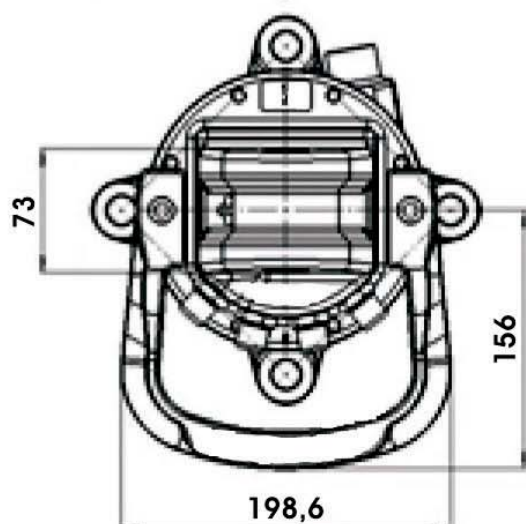
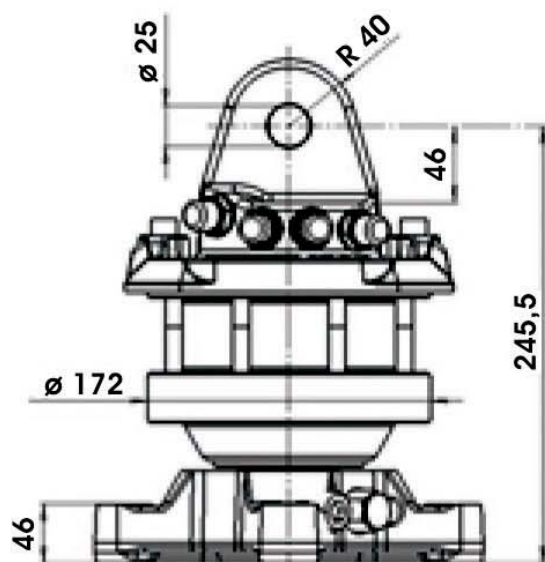


Technical Data	
Torque at 250 bar	900 Nm
Static max. Axial Load	3.500 kg
Dynamic max. Axial Load	1.750 kg
Weight	22 kg
Connection	3/8" BSP
Oil Flow	20 lt/min.
Continuous Rotation	360°

FR 50 F

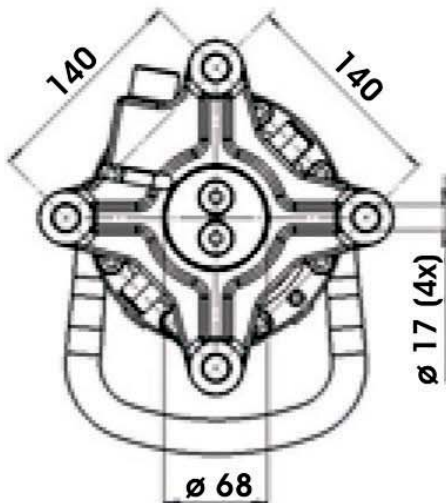
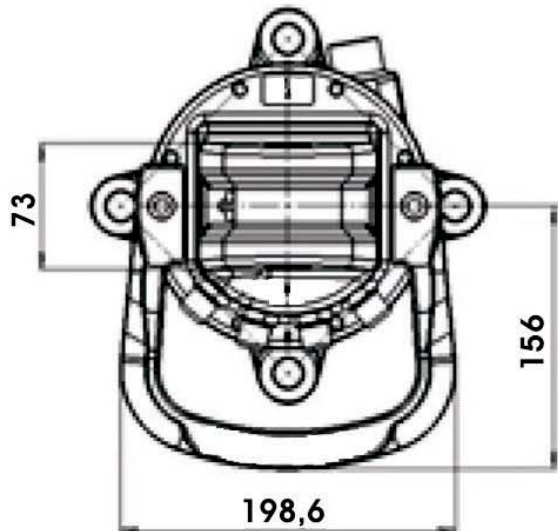
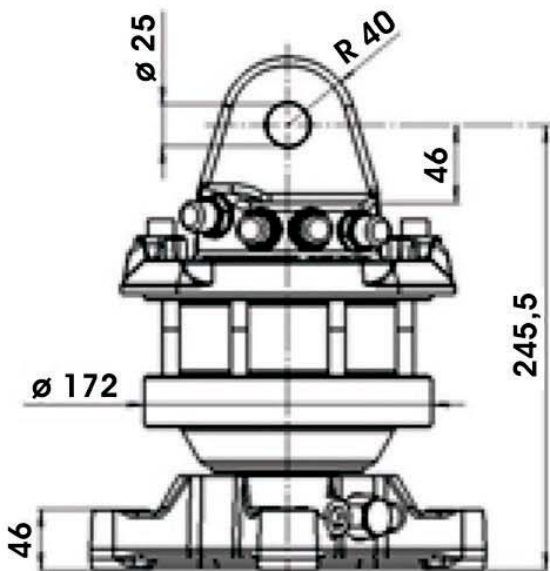
FLANGED VERSION HYDRAULIC ROTATOR

Technical Characteristics



Technical Data	
Torque at 250 bar	1.100 Nm
Static max. Axial Load	5.000kg
Dynamic max. Axial Load	2.500 kg
Weight	28 kg
Connection	3/8" BSP
Oil Flow	20 lt/min.
Continuous Rotation	360°

FR 55 F
FLANGED VERSION HYDRAULIC ROTATOR
Technical Characteristics

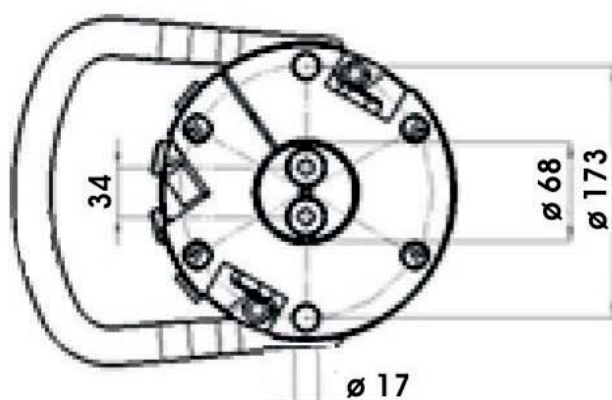
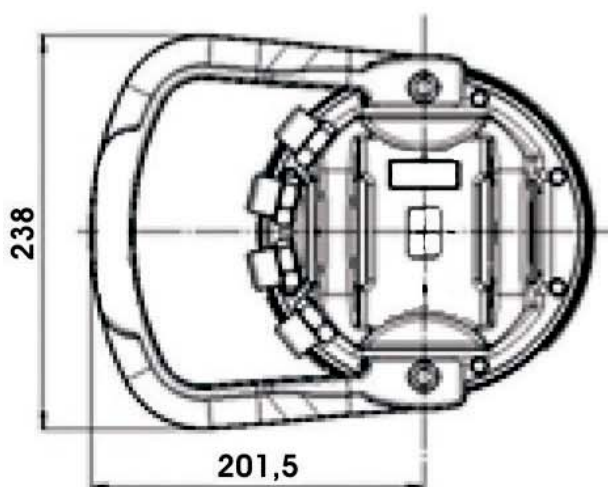
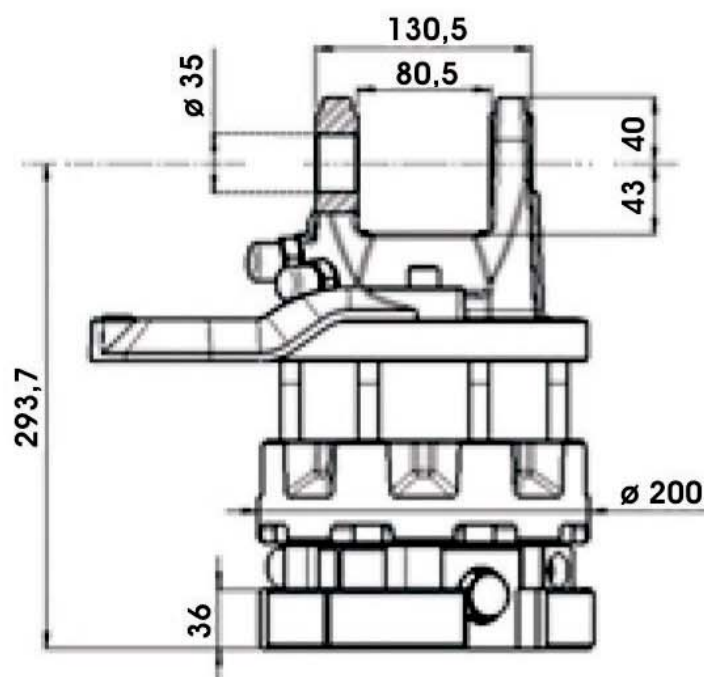


Technical Data	
Torque at 250 bar	1.300 Nm
Static max. Axial Load	5.500 kg
Dynamic max. Axial Load	2.700 kg
Weight	33 kg
Connection	3/8" BSP
Oil Flow	20 lt/min.
Continuous Rotation	360°

FR 75 DBX-F

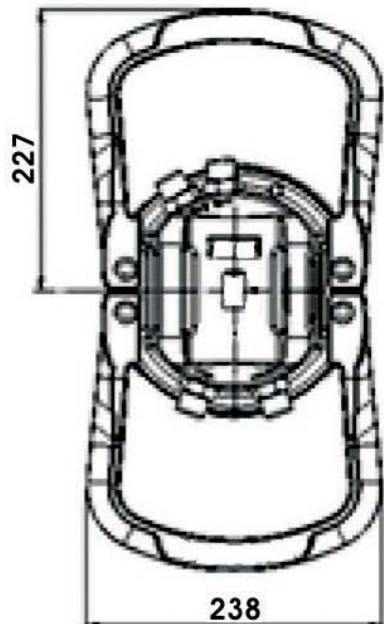
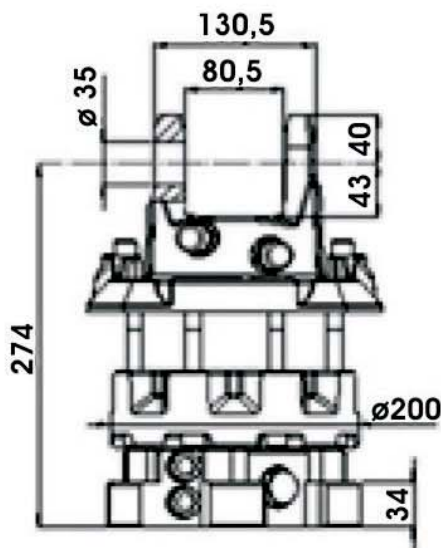
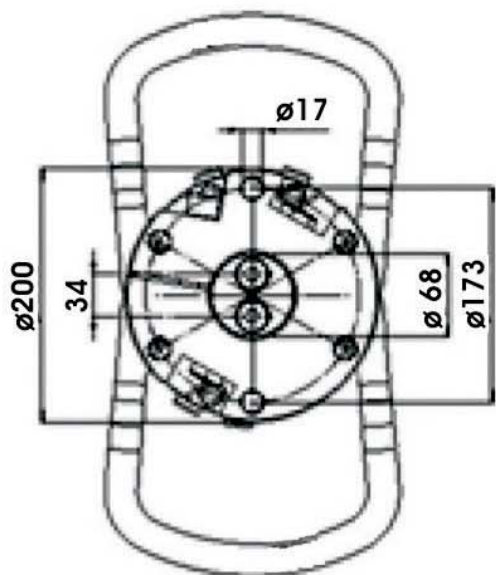
FLANGED VERSION HYDRAULIC ROTATOR

Technical Characteristics



Technical Data	
Torque at 250 bar	1.900 Nm
Static max. Axial Load	7.000 kg
Dynamic max. Axial Load	3.500 kg
Weight	41 kg
Connection	1/2" BSP
Oil Flow	25 lt/min.
Continuous Rotation	360°

FR 75 DBX-F/2
FLANGED VERSION HYDRAULIC ROTATOR
Technical Characteristics

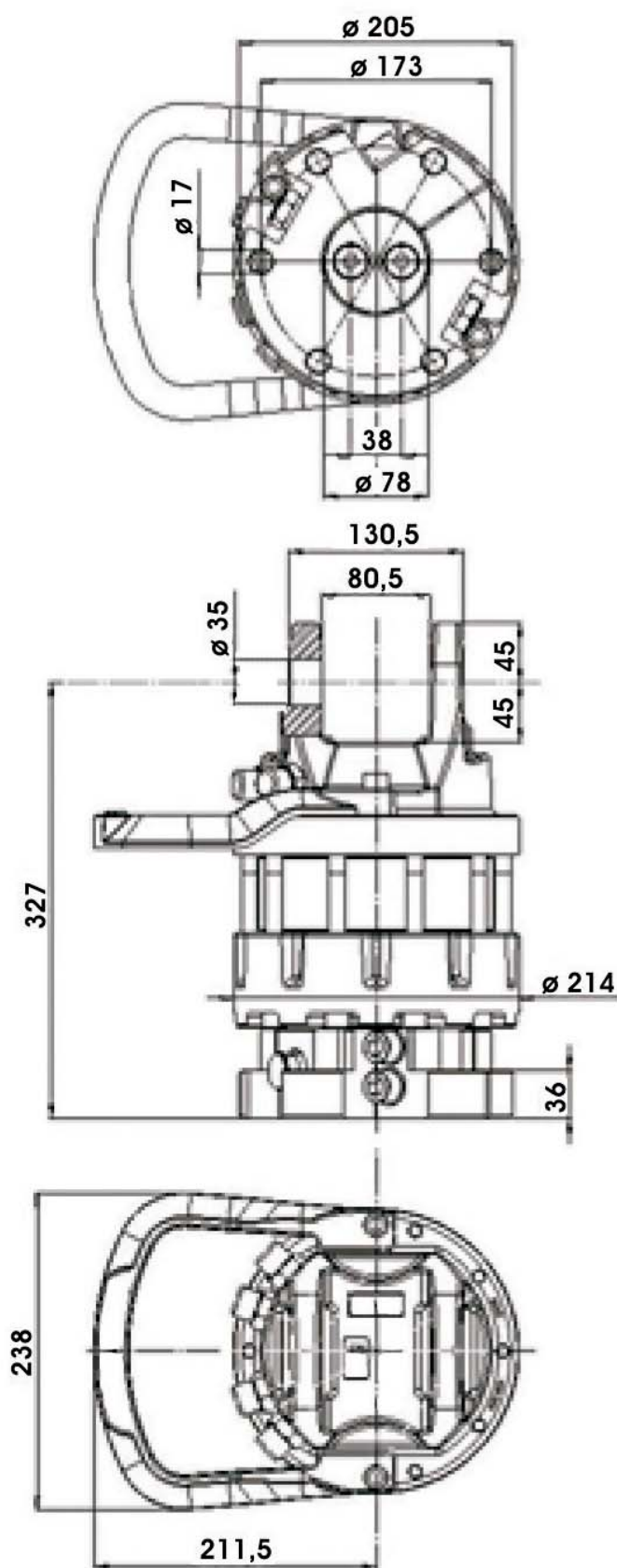


Technical Data	
Torque at 250 bar	1.900 Nm
Static max. Axial Load	7.000 kg
Dynamic max. Axial Load	3.500 kg
Weight	44 kg
Connection	1/2" BSP
Oil Flow	25 lt/min.
Continuous Rotation	360°

FR 125 DBX-F

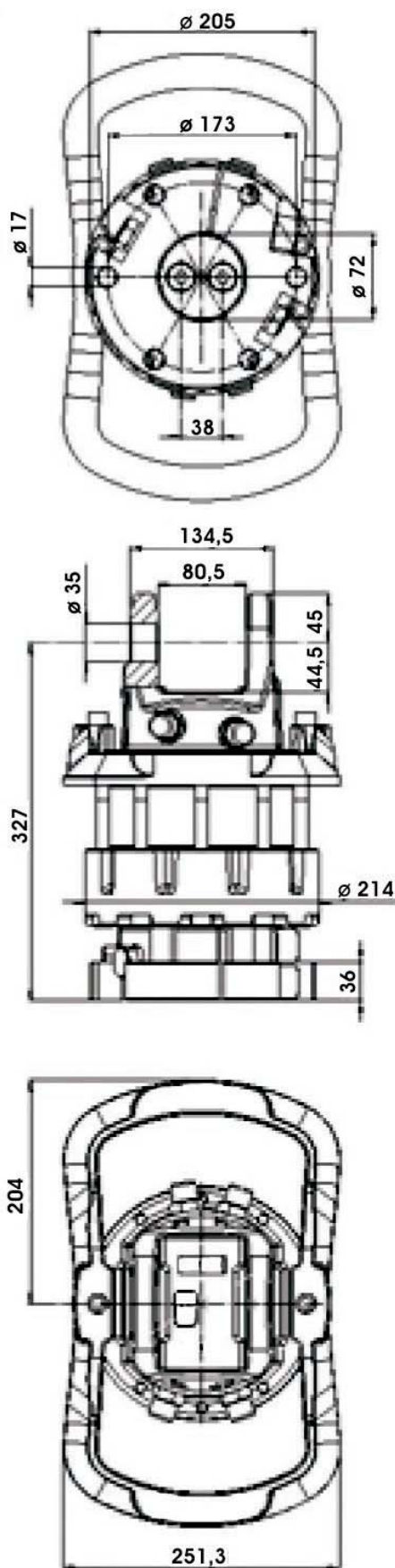
FLANGED VERSION HYDRAULIC ROTATOR

Technical Characteristics



Technical Data	
Torque at 250 bar	2.700 Nm
Static max. Axial Load	12.000 kg
Dynamic max. Axial Load	6.000 kg
Weight	56 kg
Connection	1/2" BSP
Oil Flow	30 lt/min.
Continuous Rotation	360°

FR 125 DBX-F/2
FLANGED VERSION HYDRAULIC ROTATOR
Technical Characteristics

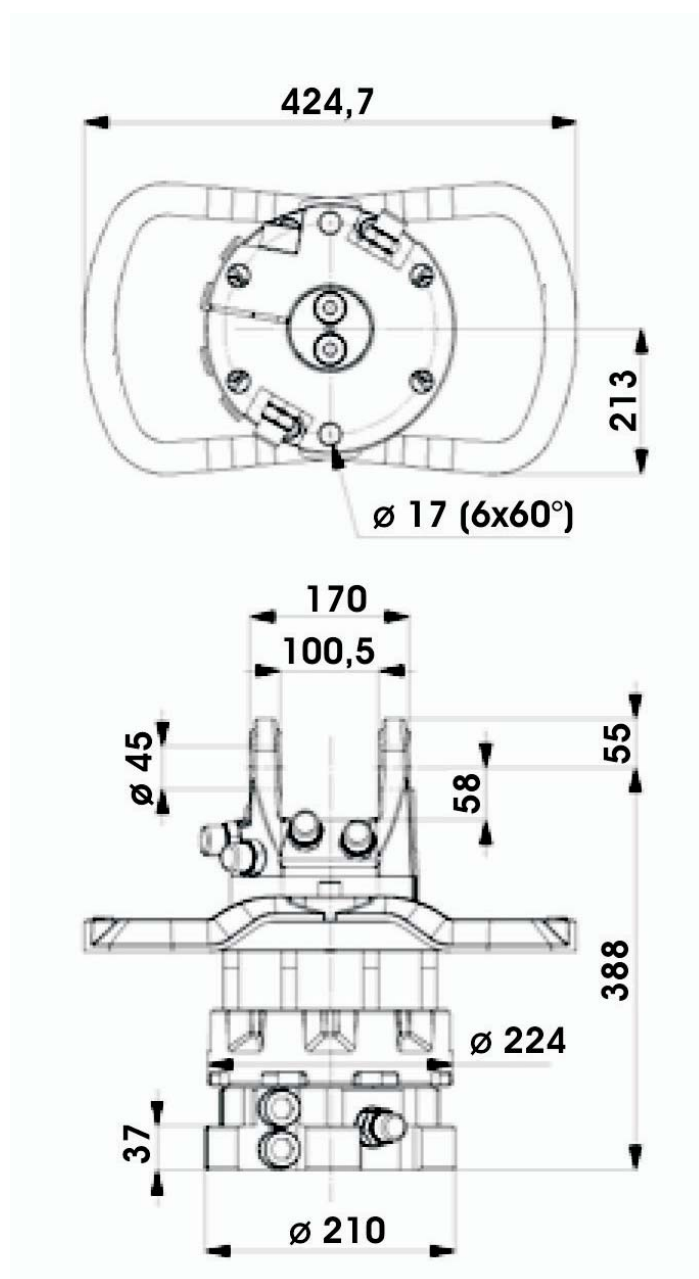


Technical Data	
Torque at 250 bar	2.700 Nm
Static max. Axial Load	12.000 kg
Dynamic max. Axial Load	6.000 kg
Weight	59 kg
Connection	1/2" BSP
Oil Flow	30 lt/min.
Continuous Rotation	360°

FR 125 F S6 DBX

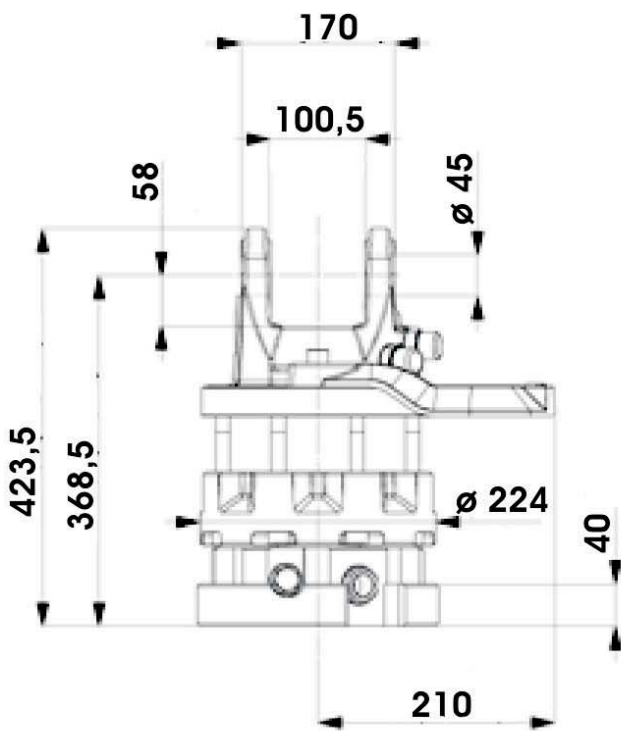
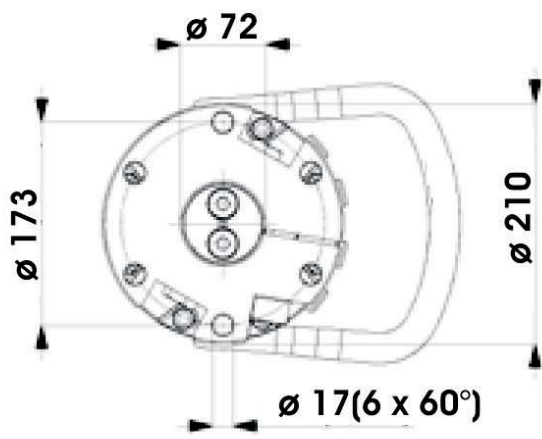
FLANGED VERSION HYDRAULIC ROTATOR

Technical Characteristics



Technical Data	
Torque at 250 bar	2.900 Nm
Static max. Axial Load	12.000 kg
Dynamic max. Axial Load	6.000 kg
Weight	77 kg
Connection	1/2" BSP
Oil Flow	35 lt/min.
Continuous Rotation	360°

FR 175 DBX - F
FLANGED VERSION HYDRAULIC ROTATOR
Technical Characteristics

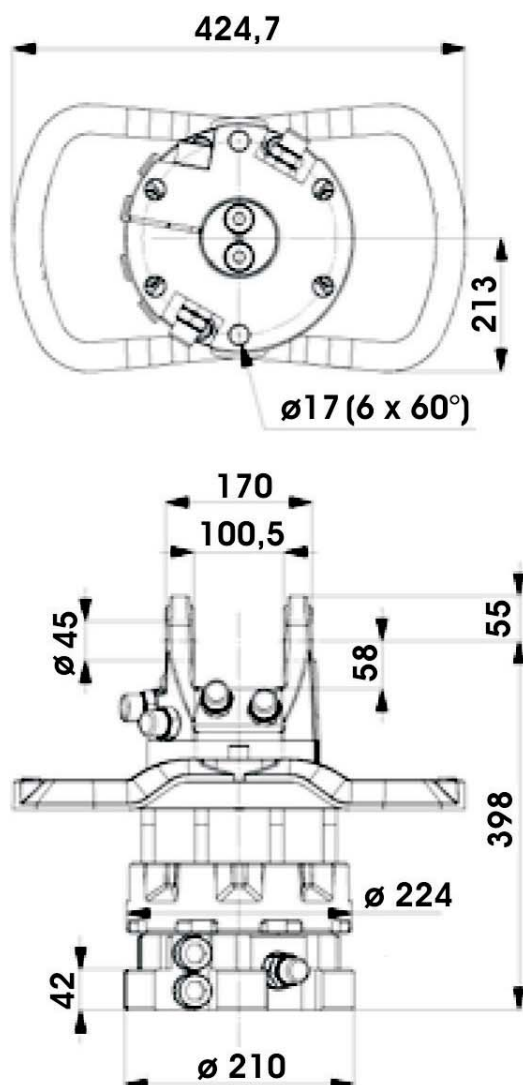


Technical Data	
Torque at 250 bar	3.400 Nm
Static max. Axial Load	17.000kg
Dynamic max. Axial Load	8.500 kg
Weight	70
Connection	1/2" BSP
Oil Flow	40 lt/min.
Continuous Rotation	360°

FR 175 F S6 DBX

FLANGED VERSION HYDRAULIC ROTATOR

Technical Characteristics



Technical Data	
Torque at 250 bar	3.400 Nm
Static max. Axial Load	16.000 kg
Dynamic max. Axial Load	8.000 kg
Weight	79
Connection	1/2" BSP
Oil Flow	40 lt/min.
Continuous Rotation	360°

As HANSA-TMP has a very extensive range of products and some products have a variety of applications, the information supplied may often only apply to specific situations.

If the catalogue does not supply all the information required, please contact HANSA-TMP.

In order to provide a comprehensive reply to queries we may require specific data regarding the proposed application.

Whilst every reasonable endeavour has been made to ensure accuracy, this publication cannot be considered to represent part of any contract, whether expressed or implied.

The data in this catalogue refer to the standard product.

The policy of HANSA-TMP consists of a continuous improvement of its products. It reserves the right to change the specifications of the different products whenever necessary and without giving prior information.



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