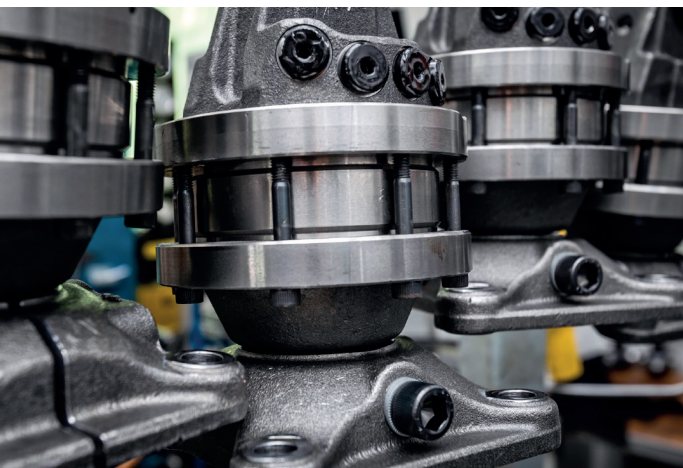
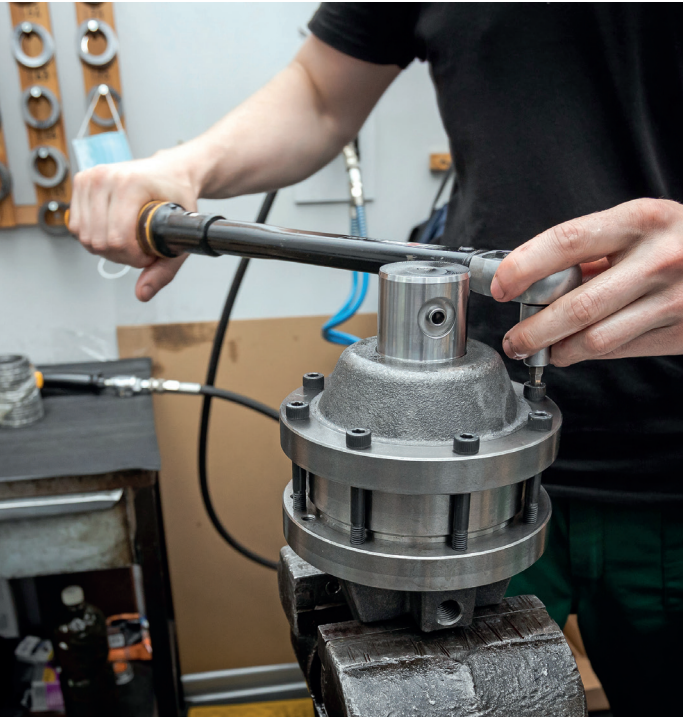


# HYDRAULIC ROTATORS

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<b>5</b>	<b>HYDRAULIC 1T ROTATOR</b> Small forestry ATV trailer or paving equipment in the road construction
<b>6</b>	<b>HYDRAULIC 3T ROTATOR</b> Lighter forestry and agriculture applications
<b>14</b>	<b>HYDRAULIC 4.5T ROTATOR</b> Medium forestry and agriculture applications
<b>20</b>	<b>HYDRAULIC 5.5T ROTATOR</b> Forestry and agriculture equipment for higher loads and intensive use
<b>33</b>	<b>HYDRAULIC 6T ROTATOR</b> Ideal for professional forestry and general cargo handling
<b>48</b>	<b>HYDRAULIC 10T ROTATOR</b> Heavy forestry and general cargo handling
<b>51</b>	<b>HYDRAULIC 16T ROTATOR</b> Heavy duty machinery to meet highest demands for quality and reliability
<b>57</b>	<b>HYDRAULIC 16T HARVESTER</b> Developed for professional and intensive use on harvester heads
<b>58</b>	<b>LINK FHL 01 WITHOUT BRAKE</b> Compatible from 1T to 5.5T rotators
<b>59</b>	<b>LINK FHL 01B WITH BRAKE</b> Compatible from 3T to 5.5T rotators
<b>60</b>	<b>LINK FHL 04 WITHOUT BRAKE</b> Compatible from 3T to 5.5T rotators
<b>62</b>	<b>LINK FHL 04B WITH BRAKE</b> Compatible from 3T to 5.5T rotators
<b>64</b>	<b>LINK FHL 05 WITHOUT BRAKE</b> Compatible from 3T to 5.5T rotators
<b>65</b>	<b>LINK FHL 05B WITH BRAKE</b> Compatible from 3T to 5.5T rotators
<b>66</b>	<b>LINK FHL 02 WITHOUT BRAKE</b> Compatible from 6T to 10T rotators
<b>67</b>	<b>LINK FHL 02B WITH BRAKE</b> Compatible from 6T to 10T rotators
<b>68</b>	<b>LINK FHL 03 WITHOUT BRAKE</b> Compatible from 16T rotators



## SHARE EXPERIENCE

To get a good quality product for affordable price is everyone's daily challenge.

To produce a good quality product and offer it in the market for the best price was a challenge for three highly experienced professionals, who in 2012 decided to attempt a solution for this puzzle.

Leading player in Latvian and Baltic metal trading industry, Ocumachinery and technology dealer in Baltic states and the Latvian pioneer in manufacturing of hydraulic rotators created the platform for experience exchange to achieve the common aim: good quality product for best price. They named it FORMIKO.

The success story of this union was the common knowledge, mind of extremely wide scope and deep understanding of all stages of supply / production / sales.

Understanding how to get the most relevant material with highest quality level for the best price.

Understanding how to process the raw materials and kind of technology to apply for producing the highest quality parts.

Understanding the market demand and correlations to offer the most desired product in right time and right place.

**2100 m<sup>2</sup>**  
production area

**25 CNC**  
machinery units

Team of **70**  
professionals

**17 000 m<sup>2</sup>**  
leading metal warehouse next door

## THE ABILITY TO PRODUCE COST-EFFESTIVE PRODUCT WITH UNCOMPROMISED QUALITY

**Our main products are hydraulic rotators for material handling in forestry, agriculture, road and building construction, general cargo and recycling industry**

Diversified product range for risk reduction.

Customizes solutions for our most particular customers.

Formiko develops and manufactures high quality Jig&Fixtures for CNC machinery producers (e.g. **AMADA**).

Engineering support for our customers.

Continuous cost reduction by increasing batch and improving production efficiency.

Continuous improvement of existing products.

Transfer these savings to our customer through consistent price policy.

We confirm the reliability of FHR rotators.

**Continuously growing market share**

**Market share dynamics**

Year	Market Share
2023	High
2022	Medium-High
2021	Medium
2020	Low-Medium
2019	Low

By following the market demands and our customer requests, we are continuously expanding our offer of hydraulic rotators within the range of

**1t-16t load capacity.**

On second quarter of 2024 our offer consisted of 53 hydraulic rotator.

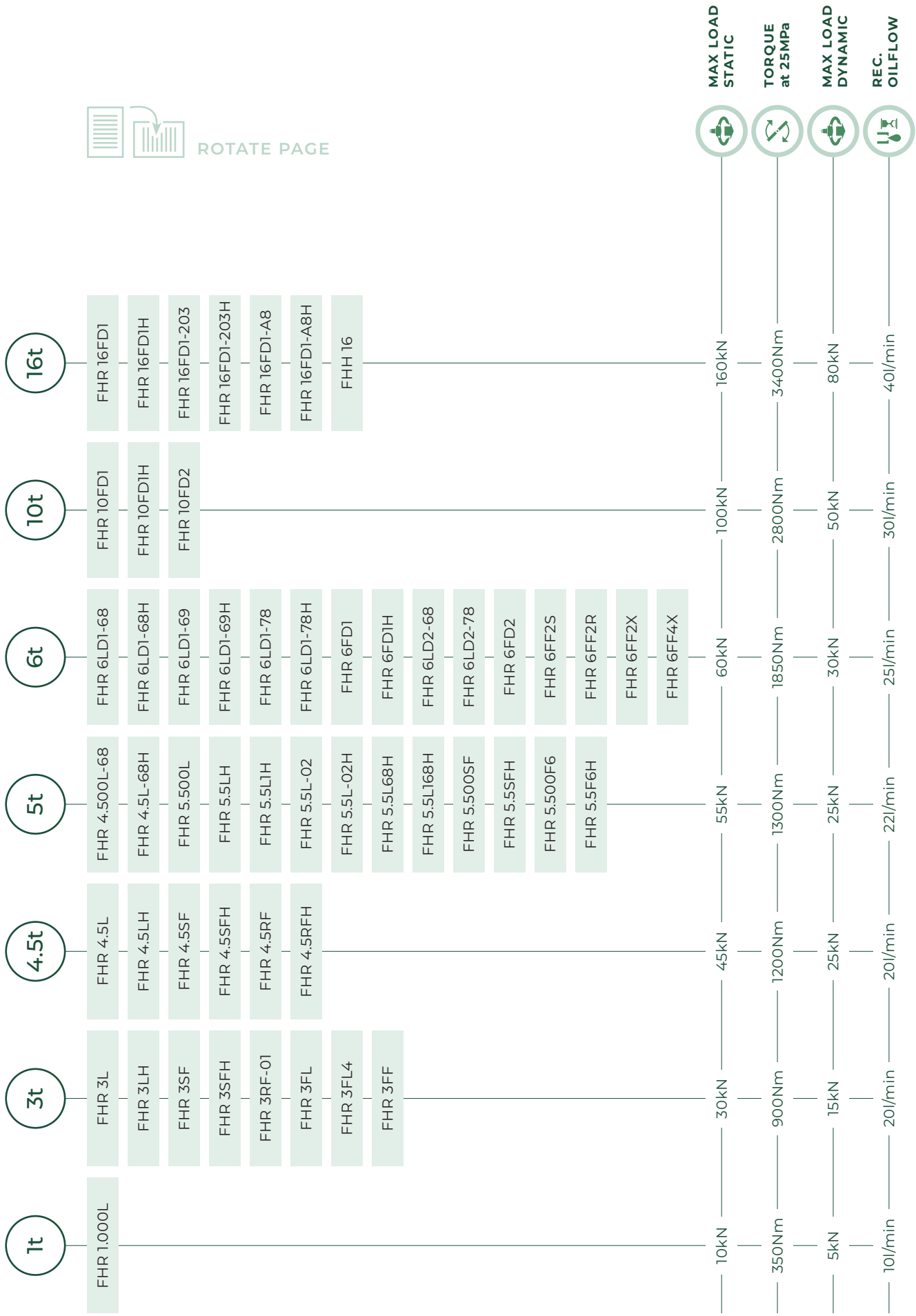
**Developing strong dealer and distributor network**

A lot of energy today is devoted to establish strong worldwide dealer and distributor network to increase the product availability and decrease the delivery time for the end user.

Our long-term benefits are increased customer base and increased sales volume due to recommendations and customer shared experience.



ROTATE PAGE



# ROTATOR FHR 1.000L

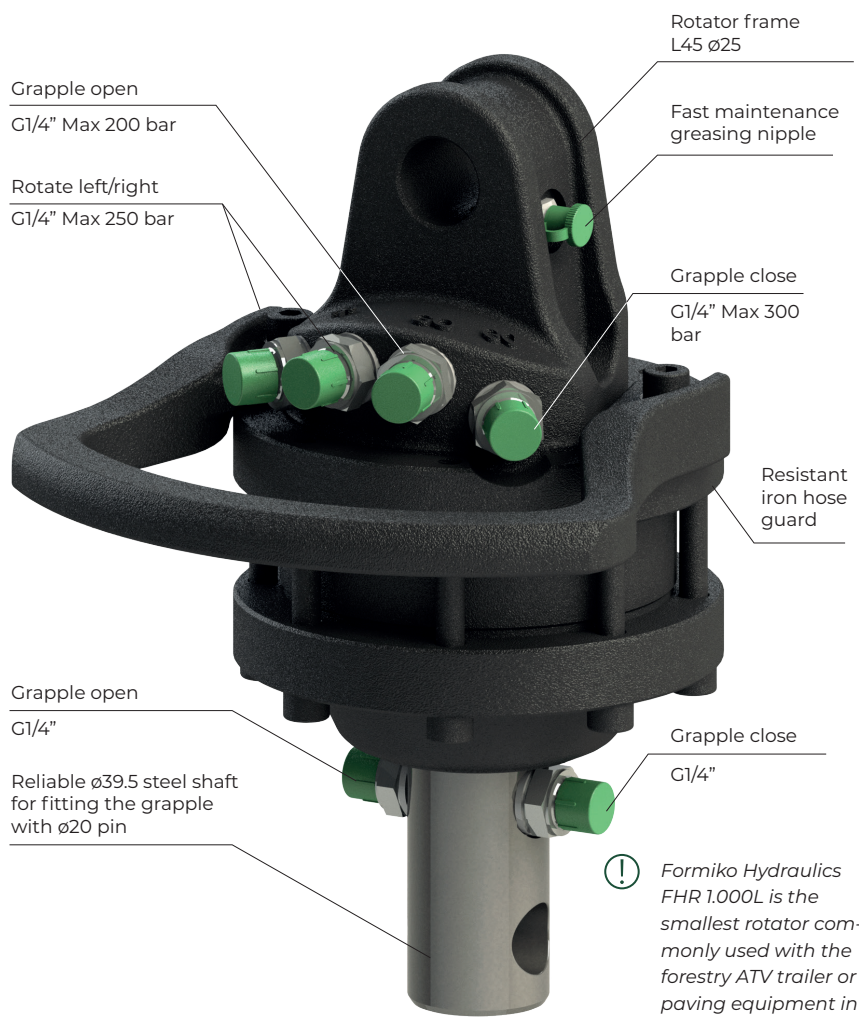
**STATIC LOAD**  
10 kN

**DYNAMIC LOAD**  
5 kN

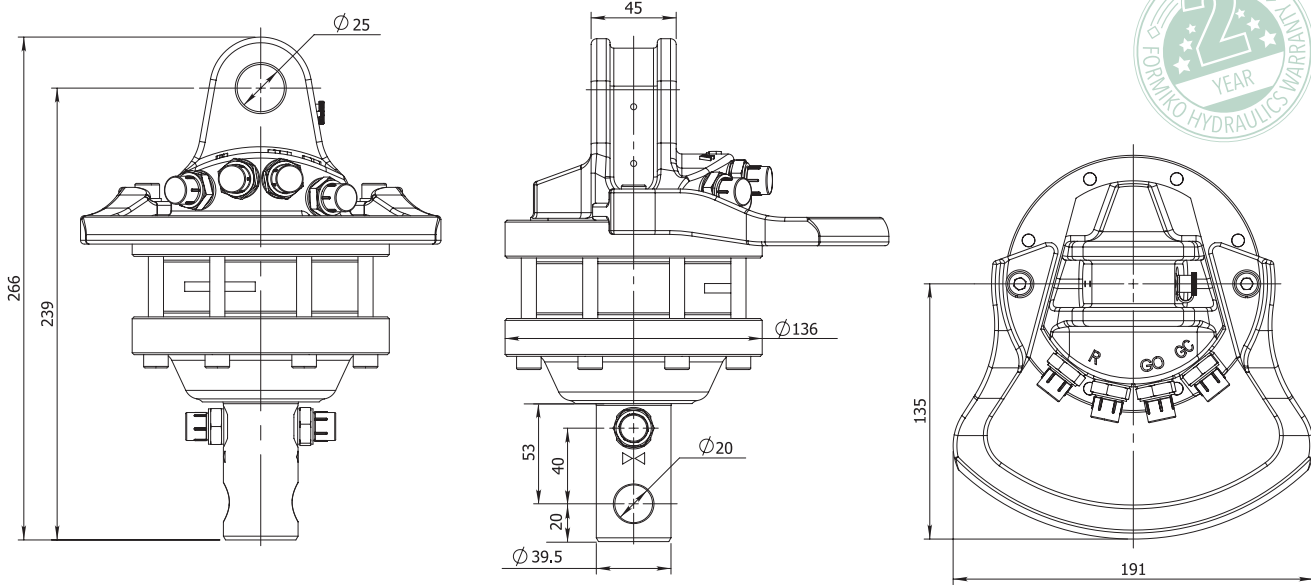
**TORQUE at 25MPa**  
350 Nm

**OILFLOW**  
10 l/min

**WEIGHT**  
12 kg



! Formiko Hydraulics FHR 1.000L is the smallest rotator commonly used with the forestry ATV trailer or paving equipment in the road construction.



FORESTRY AGRICULTURE CONSTRUCTION GENERAL CARGO RECYCLING

# FHR 3L ROTATOR

STATIC LOAD



DYNAMIC LOAD



TORQUE at 25MPa



OILFLOW



WEIGHT



Rotate left/right  
G3/8" Max 250 bar

Grapple open  
G3/8" Max 200 bar

Rotator frame  
L60 ø25

Fast maintenance greasing nipple

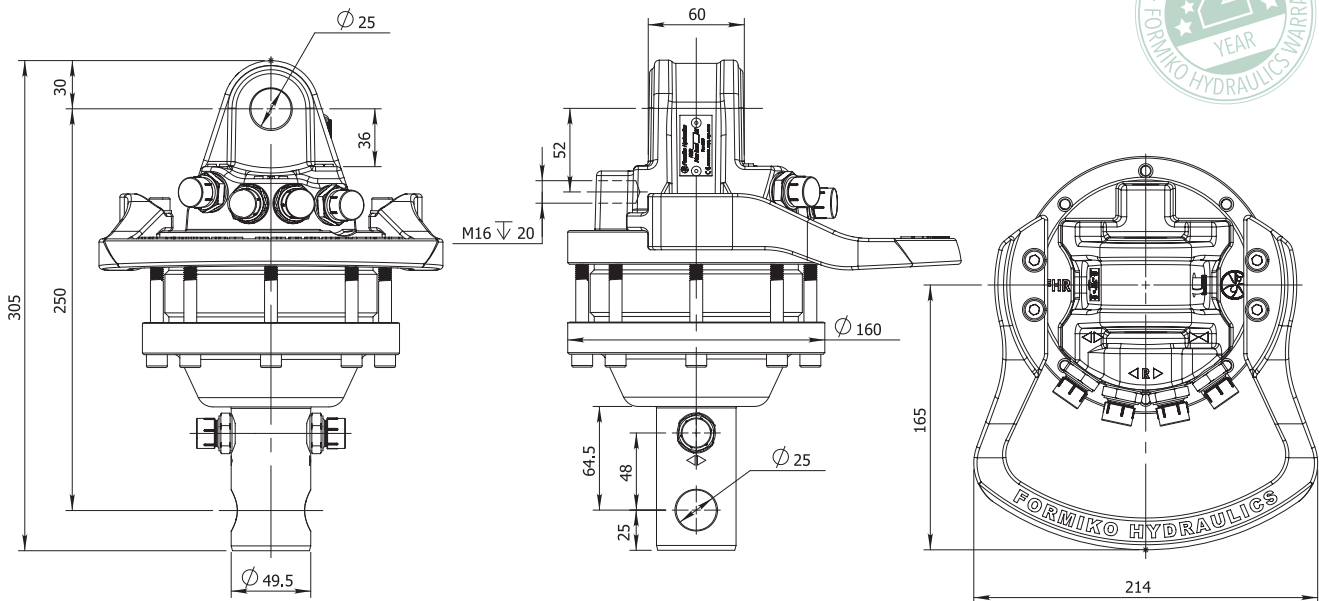
Grapple close  
G3/8" Max 300 bar

Iron 4 point fitting system hose guard

Grapple close  
G3/8"

Reliable ø49.5 steel shaft for fitting the grapple with ø25 pin

Grapple open  
G3/8"



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CONSTRUCTION



GENERAL CARGO



RECYCLING

# ROTATOR FHR 3LH

STATIC LOAD



DYNAMIC LOAD



TORQUE at 25MPa



OILFLOW



WEIGHT



Rotate left/right  
G3/8" Max 250 bar  
Grapple open  
G3/8" Max 200 bar

Rotator frame  
L60 ø25

Fast maintenance  
greasing nipple

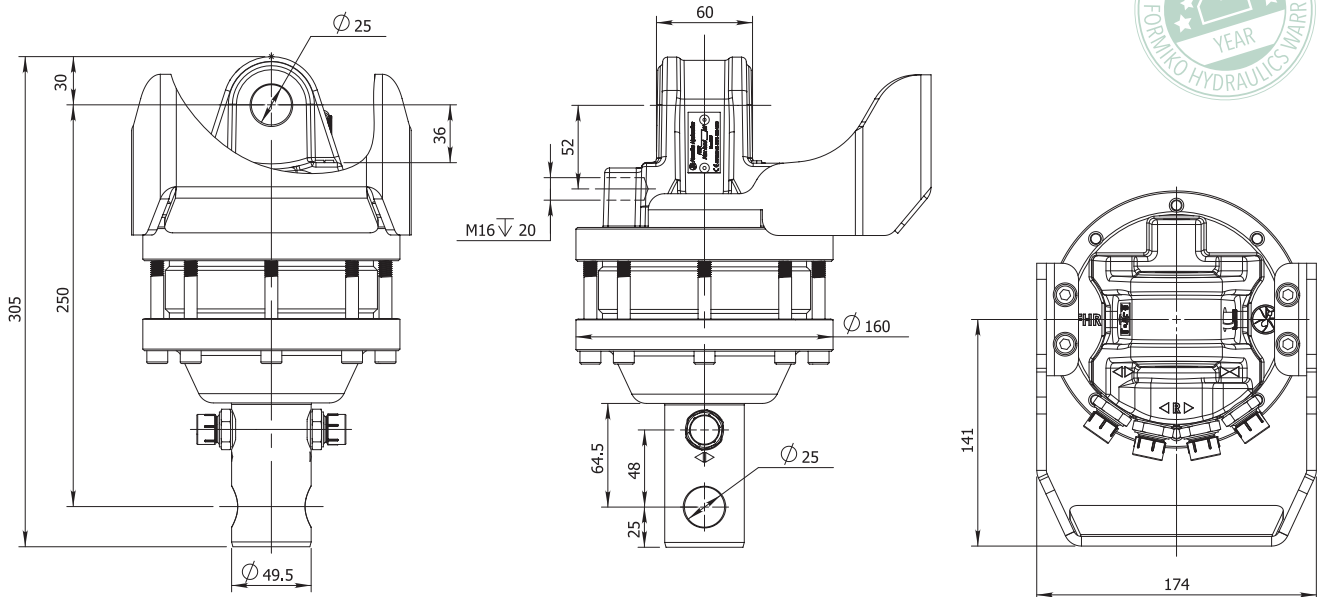
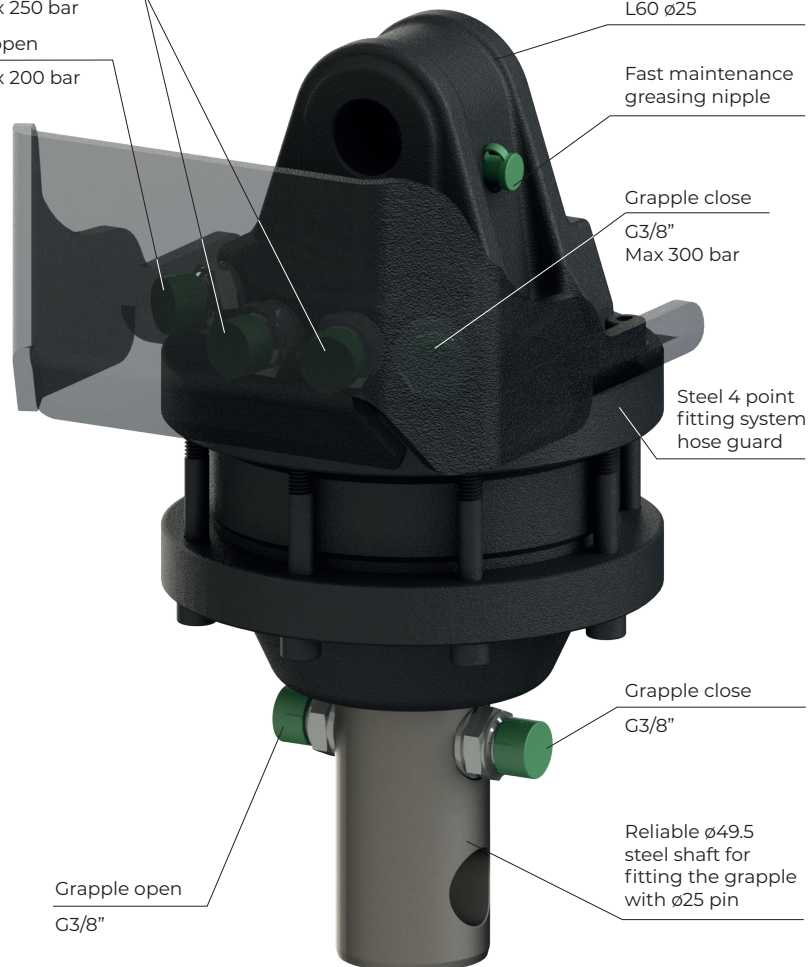
Grapple close  
G3/8"  
Max 300 bar

Steel 4 point  
fitting system  
hose guard

Grapple close  
G3/8"

Reliable ø49.5  
steel shaft for  
fitting the grapple  
with ø25 pin

Grapple open  
G3/8"



FORESTRY



AGRICULTURE



CONSTRUCTION



GENERAL CARGO



RECYCLING



# FHR 3SF

## ROTATOR

- STATIC LOAD**



30 kN
- DYNAMIC LOAD**



15 kN
- TORQUE at 25MPa**



900 Nm
- OILFLOW**



20 l/min
- WEIGHT**



24 kg



**FORGED STEEL**

Rotate left/right  
G3/8" Max 250 bar

Grapple open  
G3/8" Max 200 bar

Grapple open  
G3/8"

Rotator frame  
L60 ø25

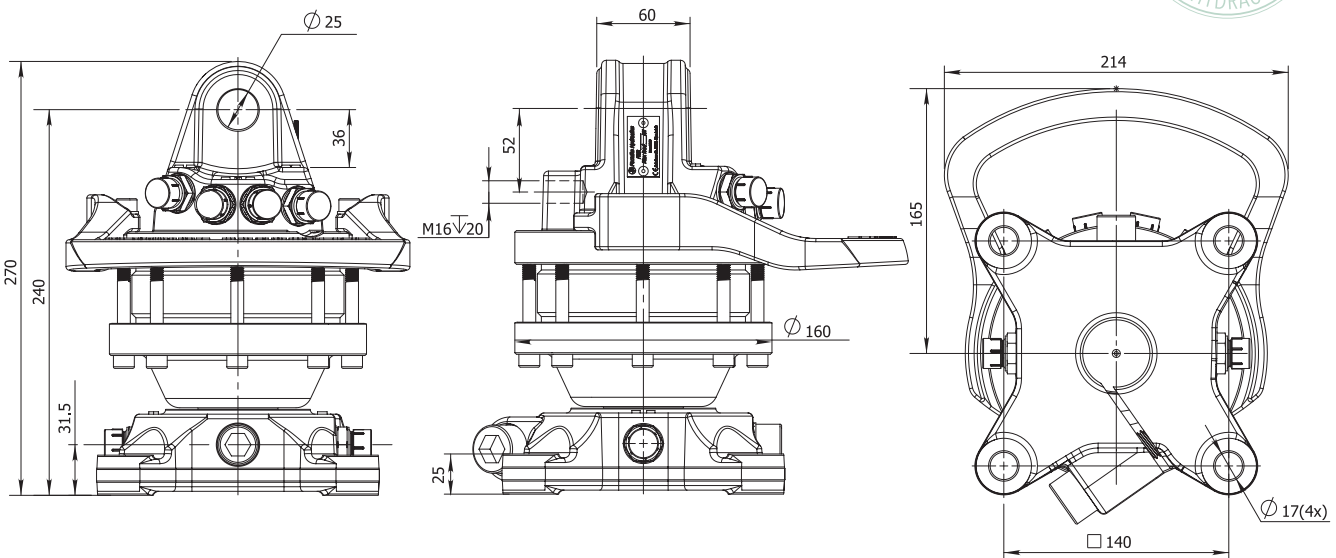
Fast maintenance  
greasing nipple

Grapple close  
G3/8"  
Max 300 bar

Iron 4 point  
fitting system  
hose guard

Grapple close  
G3/8"

Shock resistant FORGED STEEL flange for reliable fitting the grapple



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CONSTRUCTION



GENERAL CARGO



RECYCLING



# ROTATOR FHR 3SFH

**STATIC LOAD**  
30 kN

**DYNAMIC LOAD**  
15 kN

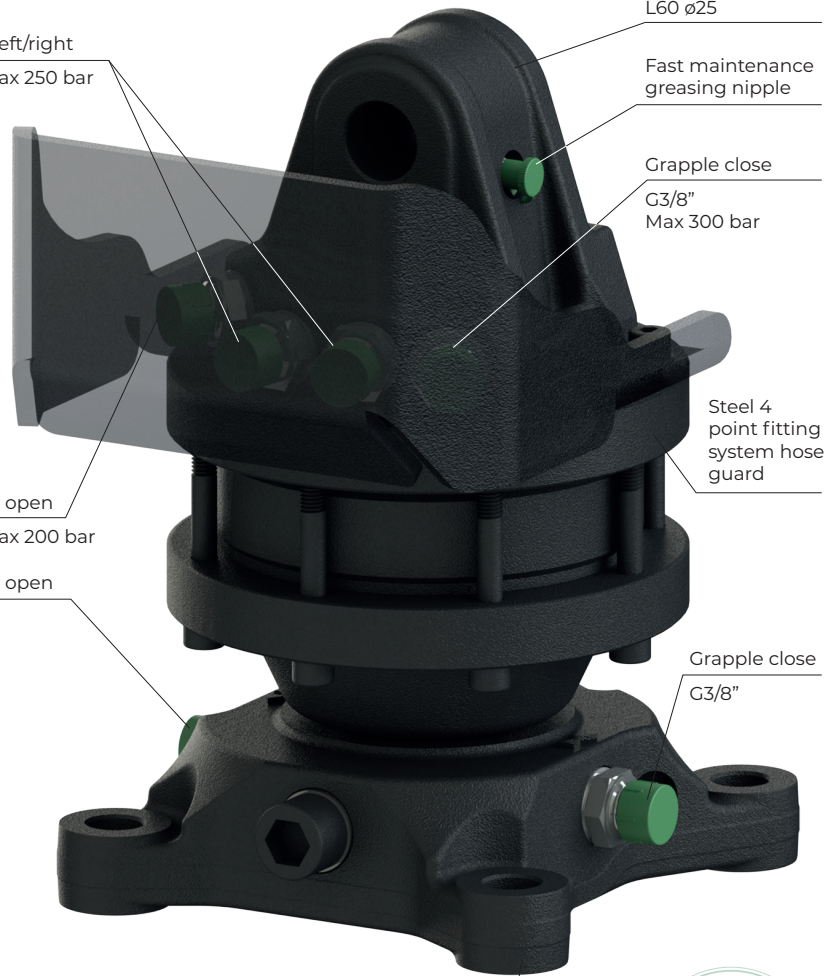
**TORQUE at 25MPa**  
900 Nm

**OILFLOW**  
20 l/min

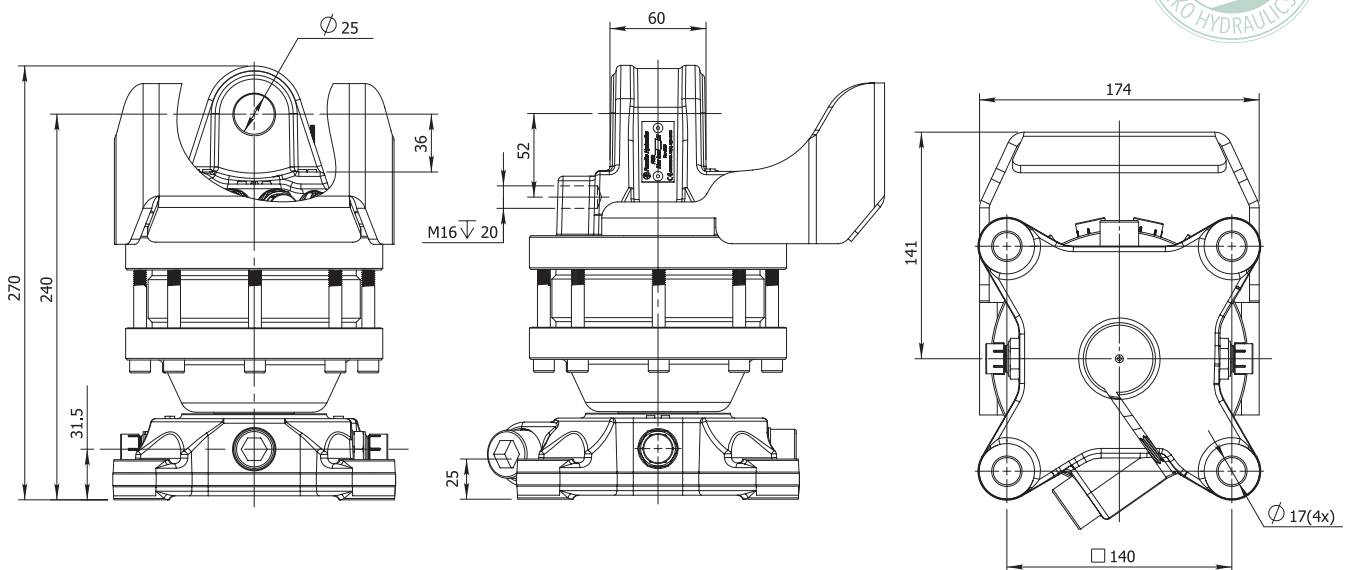
**WEIGHT**  
24 kg

**FORGED STEEL**

Rotate left/right  
G3/8" Max 250 bar



Shock resistant FORGED STEEL flange for reliable fitting the grapple



FORESTRY



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CONSTRUCTION



GENERAL CARGO



RECYCLING



# FHR 3RF-01 ROTATOR

**STATIC LOAD**  
30 kN

**DYNAMIC LOAD**  
15 kN

**TORQUE at 25MPa**  
900 Nm

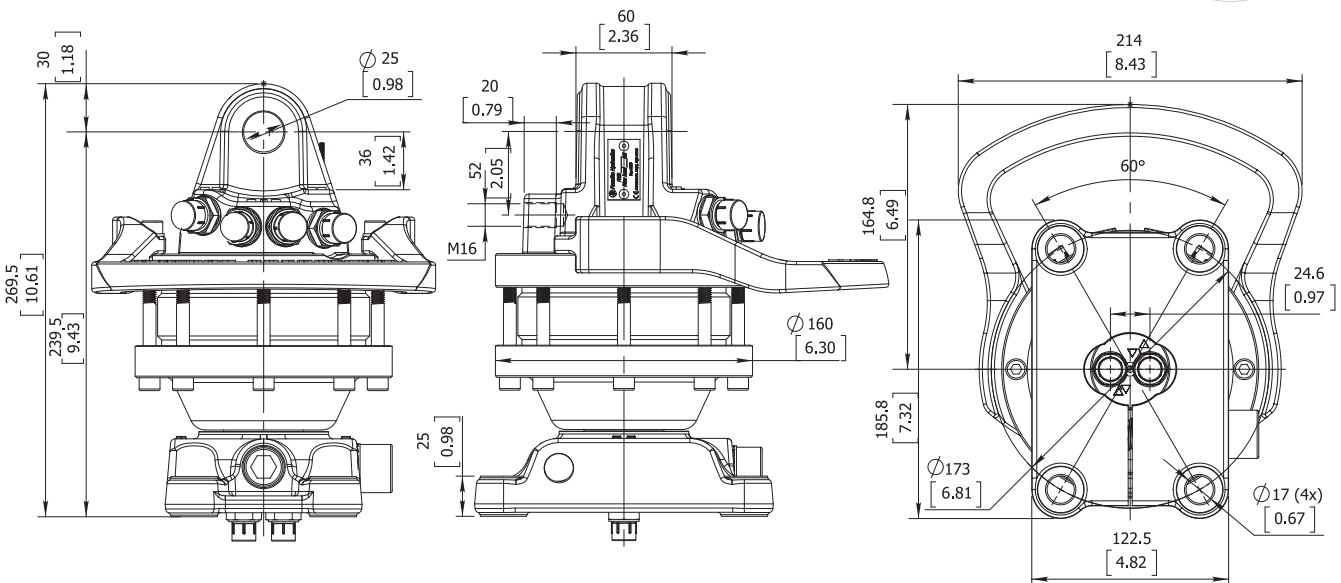
**OILFLOW**  
20 l/min

**WEIGHT**  
22 kg



Rotate left/right  
G3/8" Max 250 bar

Grapple open  
G3/8" Max 200 bar



FORESTRY



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CONSTRUCTION



GENERAL CARGO



RECYCLING

# ROTATOR FHR 3FL

**STATIC LOAD**  
30 kN

**DYNAMIC LOAD**  
15 kN

**TORQUE at 25MPa**  
900 Nm

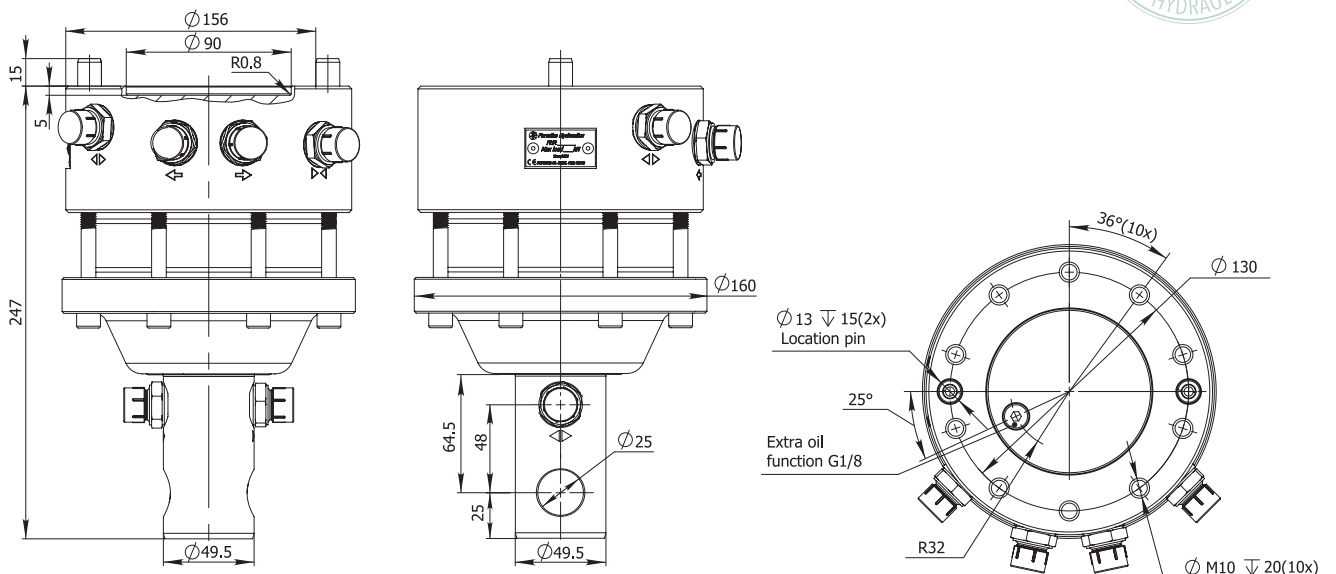
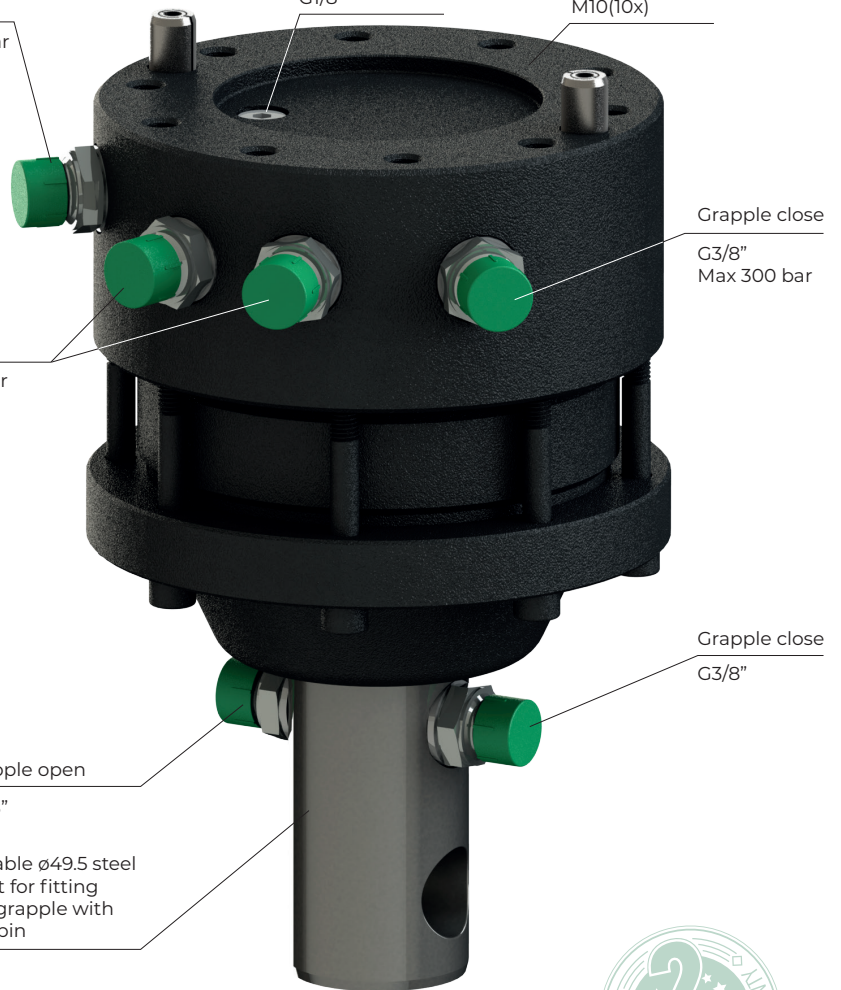
**OILFLOW**  
20 l/min

**WEIGHT**  
18 kg

Grapple open  
G3/8" Max 200 bar

Extra oil function  
G1/8"

Rotator frame  $\varnothing 156$   
for fitting plate  $\varnothing 130$   
M10(10x)



FORESTRY



AGRICULTURE



CONSTRUCTION



GENERAL CARGO



RECYCLING



# FHR 3FL4 ROTATOR

**STATIC LOAD**  
30 kN

**DYNAMIC LOAD**  
15 kN

**TORQUE at 25MPa**  
900 Nm

**OILFLOW**  
20 l/min

**WEIGHT**  
22 kg

Rotator frame  $\varnothing 156$  for fitting plate  $\varnothing 130$  M10(10x)

Extra oil function G1/8"

Grapple open G3/8" Max 200 bar

1 Extra oil function G3/8" Max 300 bar

Rotate left/right G3/8" Max 250 bar

Grapple close G3/8" Max 300 bar

2 Extra oil function G3/8" Max 300 bar

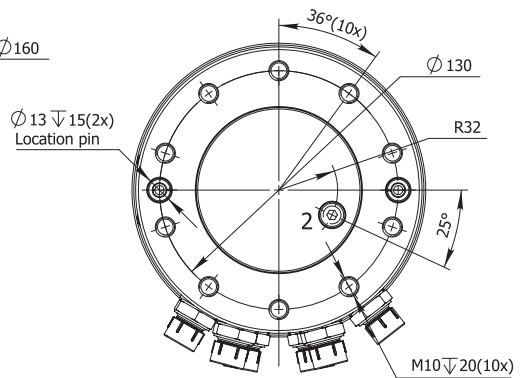
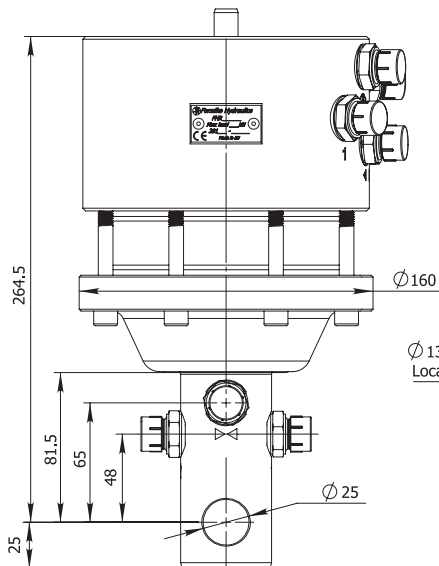
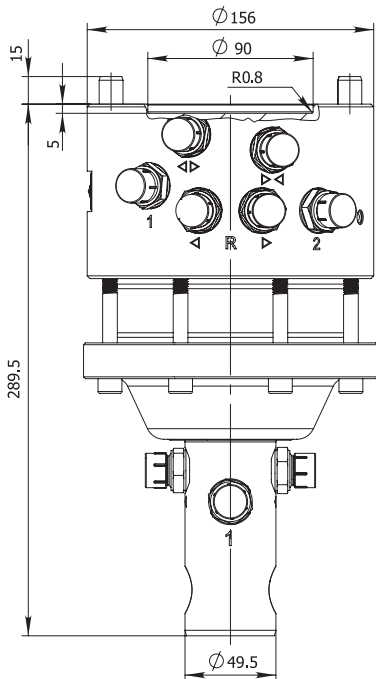
2 Extra oil function G3/8" Max 300 bar

Grapple open G3/8"

1 Extra oil function G3/8" Max 300 bar

Grapple close G3/8"

Reliable  $\varnothing 49.5$  steel shaft for fitting the grapple with  $\varnothing 25$  pin



FORESTRY



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CONSTRUCTION



GENERAL CARGO



RECYCLING

# ROTATOR FHR 3FF

**STATIC LOAD**  
30 kN

**DYNAMIC LOAD**  
15 kN

**TORQUE at 25MPa**  
900 Nm

**OILFLOW**  
20 l/min

**WEIGHT**  
21 kg

Grapple open  
G3/8" Max 200 bar

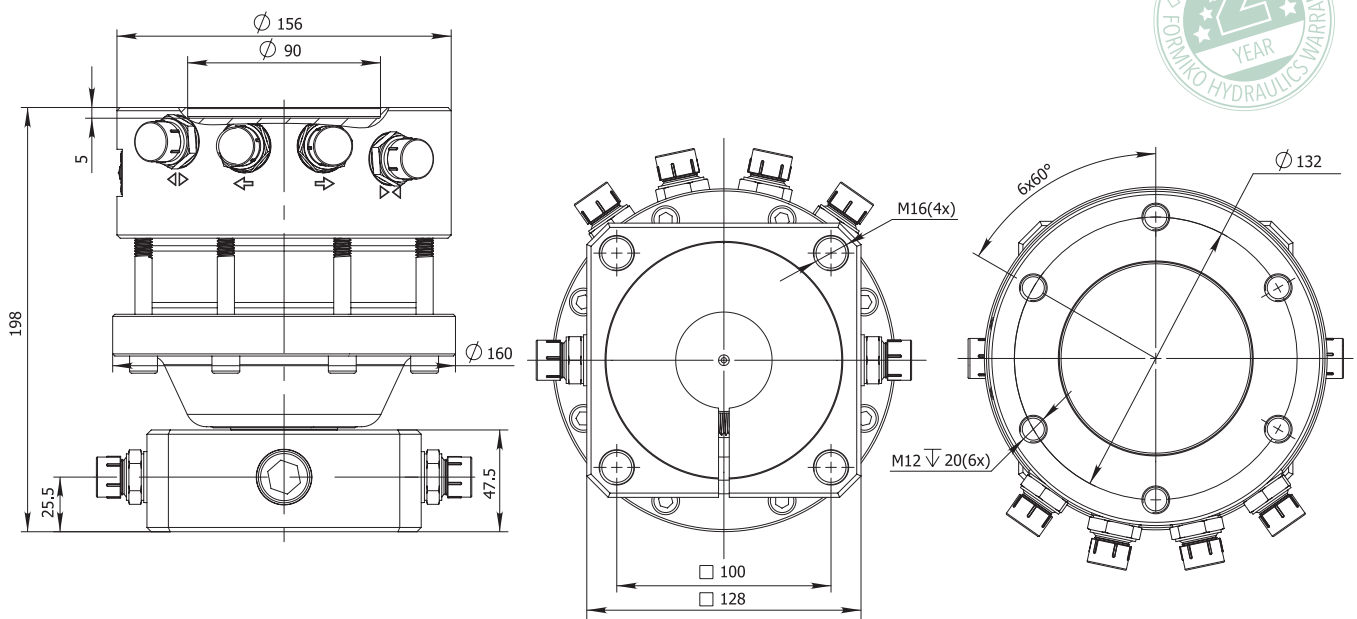
Grapple close  
G3/8" Max 300 bar

Rotate left/right  
G3/8" Max 250 bar

Rotator frame  $\varnothing 156$   
for fitting plate  $\varnothing 132$   
M12(6x)

Grapple open  
G3/8"

Grapple close  
G3/8"



FORESTRY



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CONSTRUCTION



GENERAL CARGO



RECYCLING



# FHR 4.5L ROTATOR

STATIC LOAD



DYNAMIC LOAD



TORQUE at 25MPa



OILFLOW



WEIGHT



Rotate left/right  
G 3/8" Max 250 bar

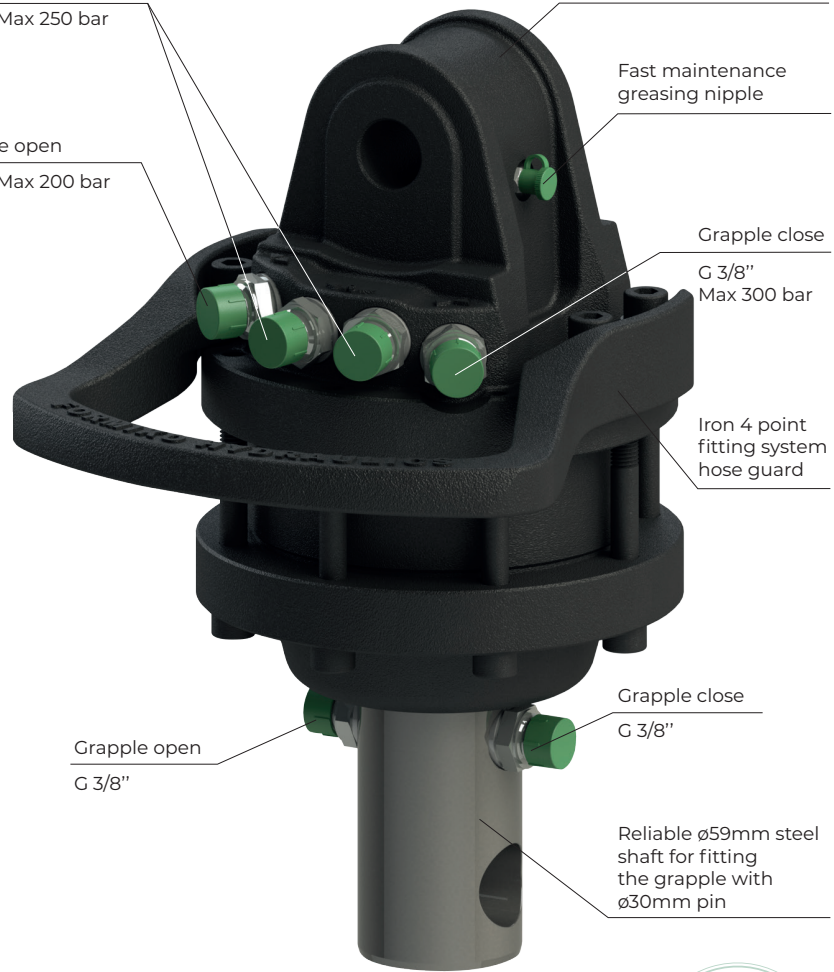
Grapple open  
G 3/8" Max 200 bar

Rotator frame L73 ø25

Fast maintenance greasing nipple

Grapple close  
G 3/8" Max 300 bar

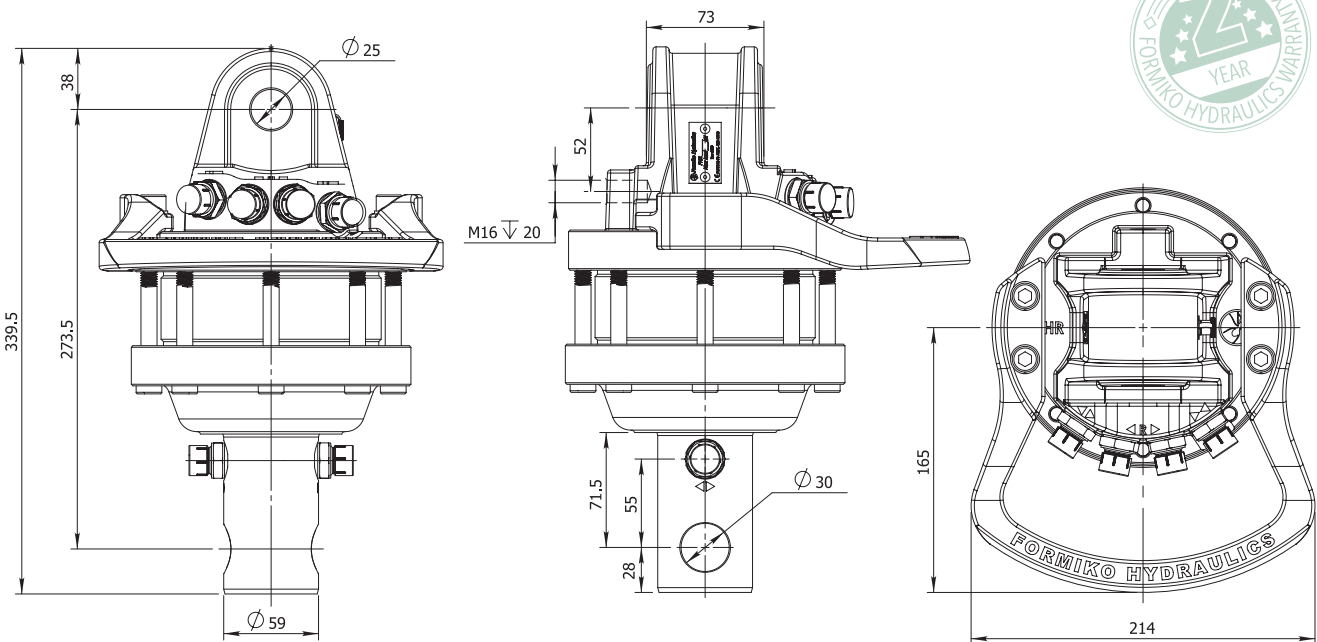
Iron 4 point fitting system hose guard



Grapple open  
G 3/8"

Grapple close  
G 3/8"

Reliable ø59mm steel shaft for fitting the grapple with ø30mm pin



FORESTRY



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CONSTRUCTION



GENERAL CARGO



RECYCLING

# ROTATOR FHR 4.5LH

STATIC LOAD



DYNAMIC LOAD



TORQUE at 25MPa



OILFLOW



WEIGHT

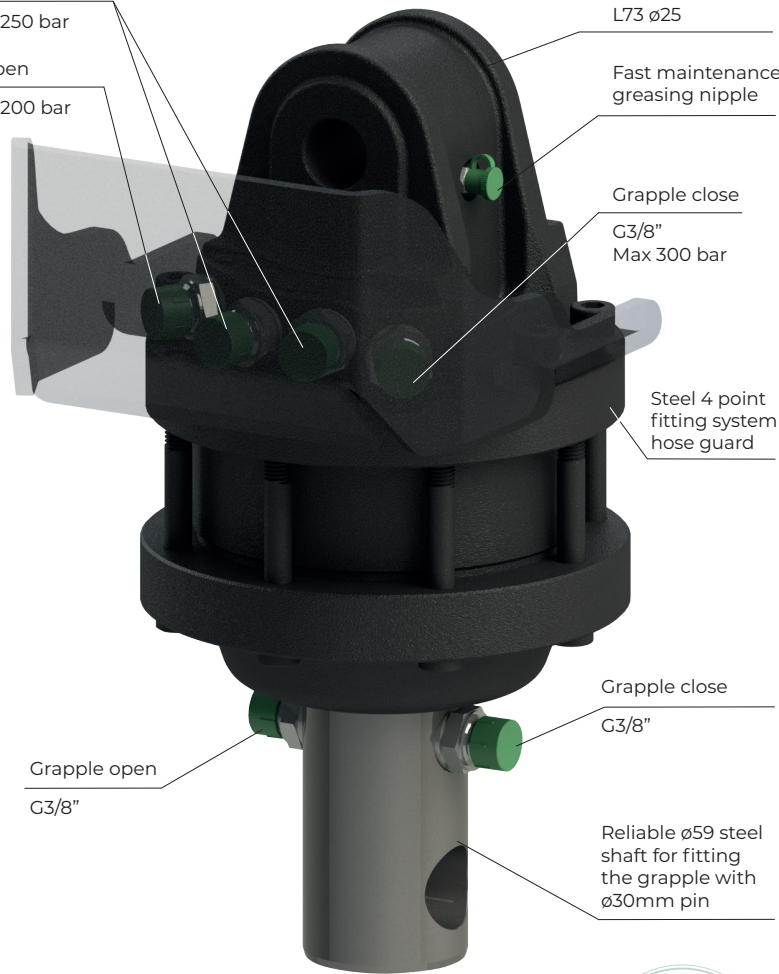


Rotate left/right  
G3/8" Max 250 bar  
Grapple open  
G3/8" Max 200 bar

Rotator frame  
L73 ø25  
Fast maintenance  
greasing nipple

Grapple close  
G3/8"  
Max 300 bar

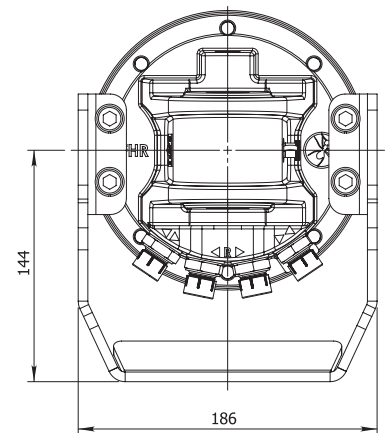
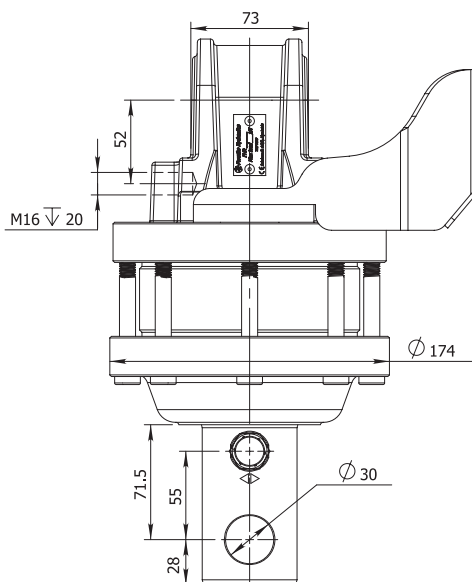
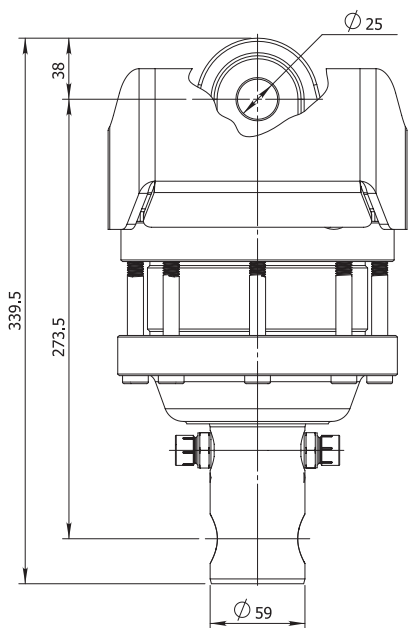
Steel 4 point  
fitting system  
hose guard



Grapple open  
G3/8"

Grapple close  
G3/8"

Reliable ø59 steel  
shaft for fitting  
the grapple with  
ø30mm pin



FORESTRY



AGRICULTURE



CONSTRUCTION



GENERAL CARGO



RECYCLING



# FHR 4.5SF ROTATOR

**STATIC LOAD**  
45 kN

**DYNAMIC LOAD**  
25 kN

**TORQUE at 25MPa**  
1200 Nm

**OILFLOW**  
20 l/min

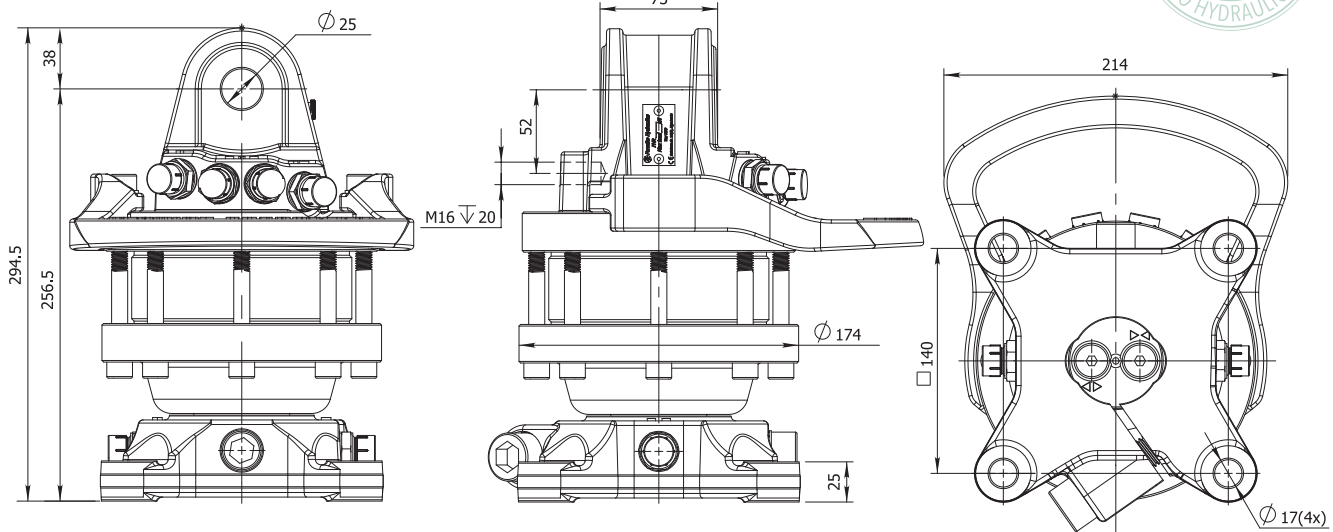
**WEIGHT**  
29 kg



**FORGED STEEL**

Rotate left/right  
G3/8" Max 250 bar

Grapple open  
G3/8" Max 200 bar



FORESTRY



AGRICULTURE



CONSTRUCTION



GENERAL CARGO



RECYCLING



# ROTATOR FHR 4.5SFH

**STATIC LOAD**  
45 kN

**DYNAMIC LOAD**  
25 kN

**TORQUE at 25MPa**  
1200 Nm

**OILFLOW**  
20 l/min

**WEIGHT**  
29 kg



**FORGED STEEL**

Rotate left/right  
G3/8" Max 250 bar

Rotator frame  
L73 ø25

Fast maintenance  
greasing nipple

Grapple close  
G3/8" Max 300 bar

Grapple open  
G3/8" Max 200 bar

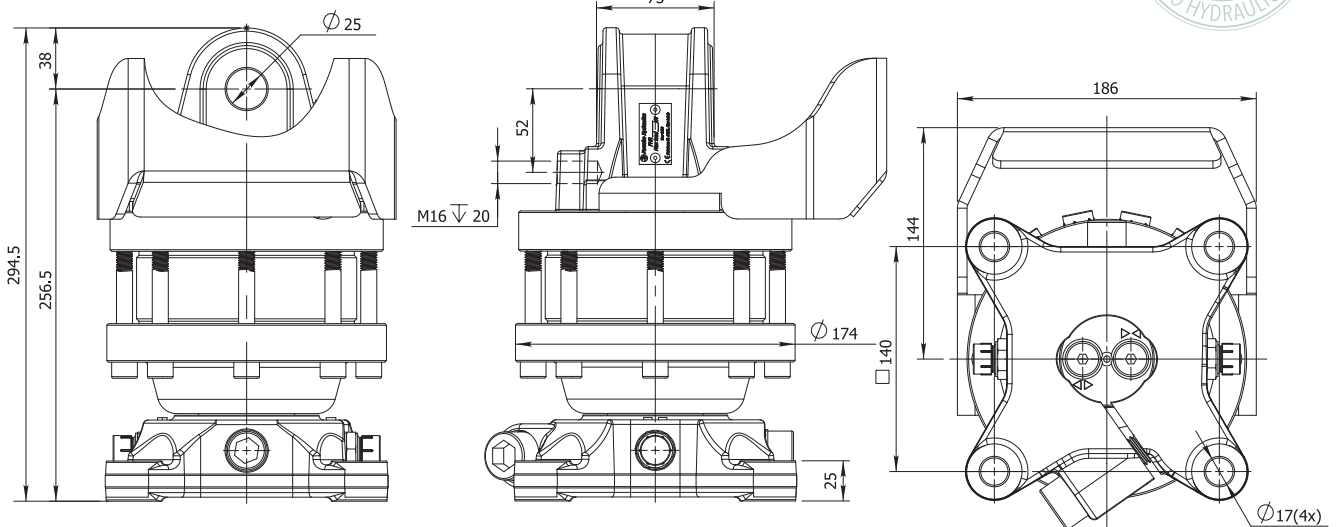
Steel  
4 point fitting  
system hose  
guard

Grapple open  
G3/8"

Grapple  
close  
G3/8"

Optional open/close  
channels

Shock resistant FORGED  
STEEL flange for reliable  
fitting the grapple



FORESTRY



AGRICULTURE



CONSTRUCTION



GENERAL CARGO



RECYCLING



# FHR 4.5RF ROTATOR

**STATIC LOAD**  
45 kN

**DYNAMIC LOAD**  
25 kN

**TORQUE at 25MPa**  
1200 Nm

**OILFLOW**  
20 l/min

**WEIGHT**  
28 kg



**FORGED STEEL**

Rotate left/right  
G3/8" Max 250 bar

Grapple open  
G3/8" Max 200 bar

Grapple open  
G3/8"

Optional open/close channels

Shock resistant FORGED STEEL flange for reliable fitting the grapple



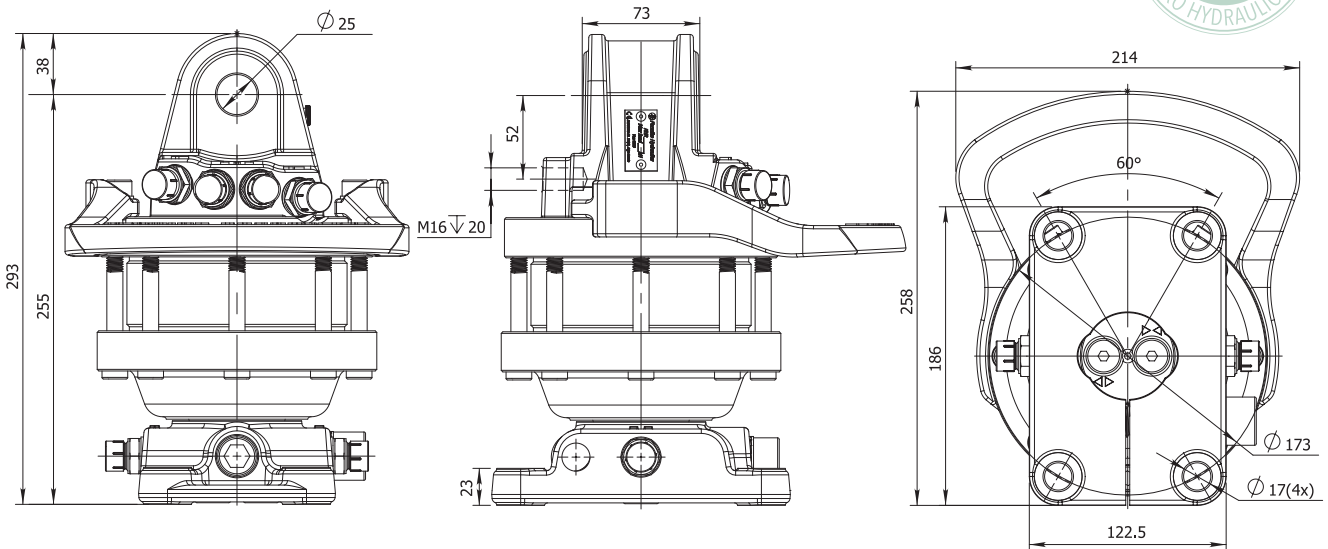
Rotator frame  
L73 ø25

Fast maintenance greasing nipple

Grapple close  
G3/8"  
Max 300 bar

Iron 4 point fitting system hose guard

Grapple close  
G3/8"



FORESTRY



AGRICULTURE



CONSTRUCTION



GENERAL CARGO



RECYCLING

# ROTATOR **FHR 4.5RFH**

STATIC LOAD



DYNAMIC LOAD



TORQUE at 25MPa



OILFLOW



WEIGHT



**FORGED STEEL**

Rotate left/right  
G3/8" Max 250 bar

Rotator frame  
L73 ø25

Fast maintenance  
greasing nipple

Grapple close  
G3/8" Max 300 bar

Grapple open  
G3/8" Max 200 bar

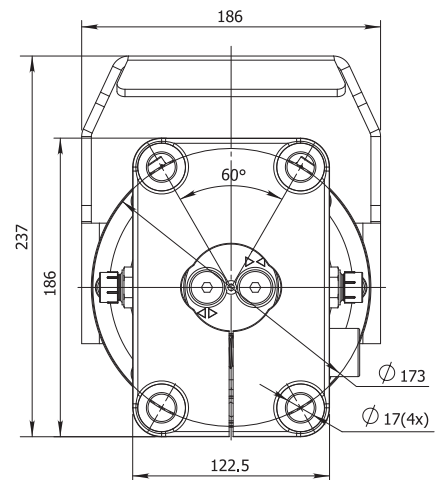
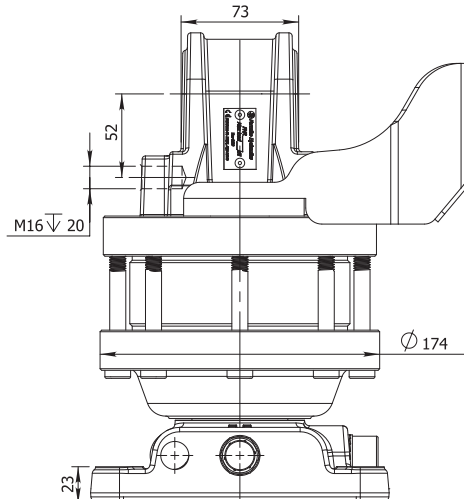
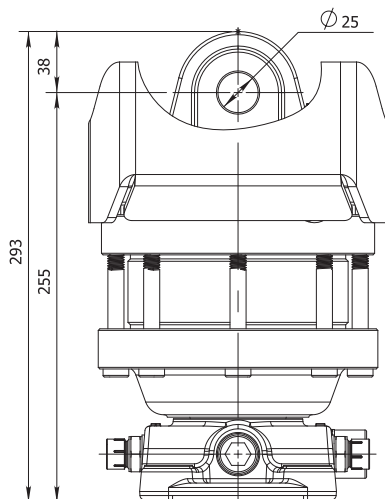
Steel 4 point  
fitting system  
hose guard

Grapple open  
G3/8"

Grapple close  
G3/8"

Optional open/close  
channels

Shock resistant  
FORGED STEEL  
flange for reliable  
fitting the grapple



FORESTRY



AGRICULTURE



CONSTRUCTION



GENERAL CARGO



RECYCLING



# FHR 4.500L-68 ROTATOR

STATIC LOAD

55 kN

DYNAMIC LOAD

25 kN

TORQUE at 25MPa

1300 Nm

OILFLOW

22 l/min

WEIGHT

28 kg

Rotate left/right  
G 3/8" Max 250 bar

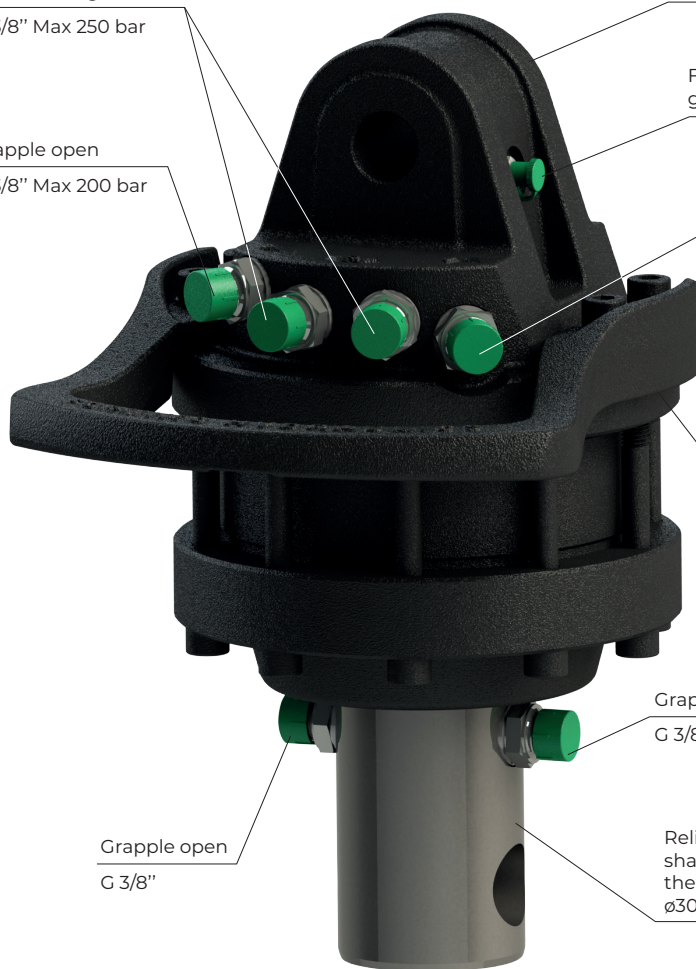
Rotator frame L73 ø25

Fast maintenance greasing nipple

Grapple open  
G 3/8" Max 200 bar

Grapple close  
G 3/8" Max 300 bar

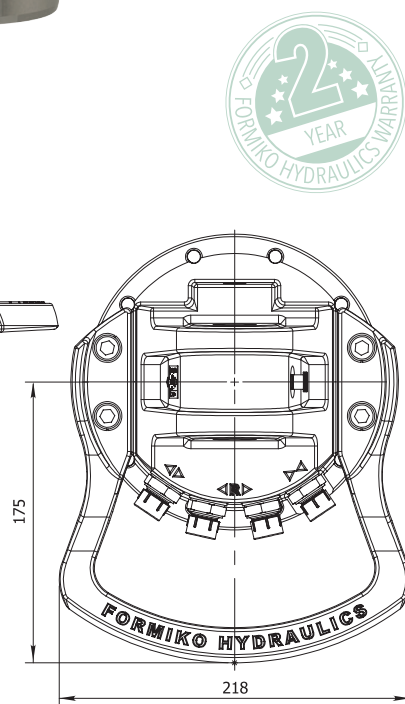
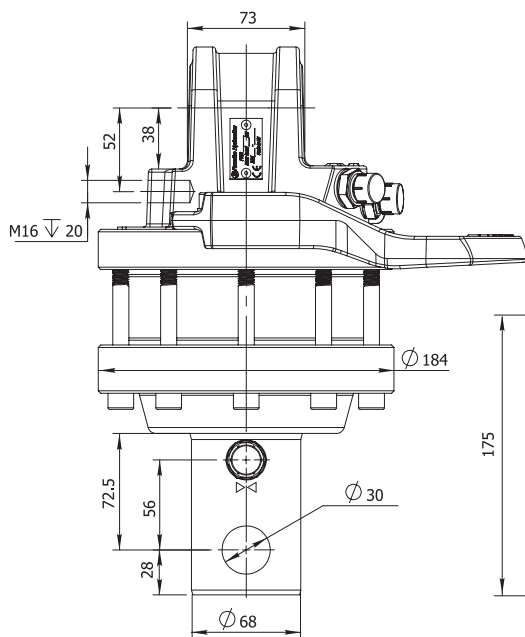
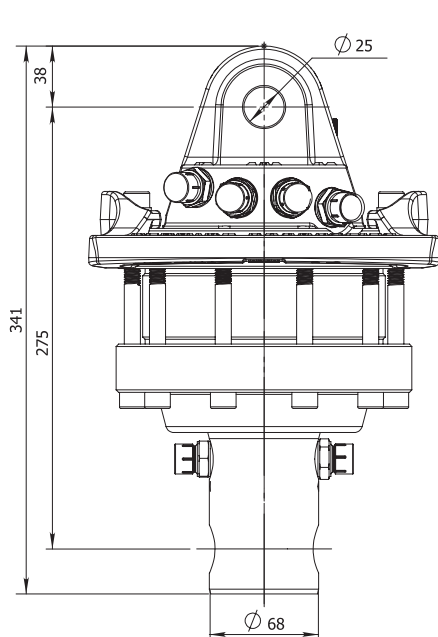
Iron 4 point fitting system hose guard



Grapple close  
G 3/8"

Grapple open  
G 3/8"

Reliable ø68mm steel shaft for fitting the grapple with ø30mm pin



FORESTRY



AGRICULTURE



CONSTRUCTION



GENERAL CARGO



RECYCLING

# ROTATOR FHR 4.5L-68H

STATIC LOAD



DYNAMIC LOAD



TORQUE at 25MPa



OILFLOW



WEIGHT



Rotate left/right

G3/8" Max 250 bar

Grapple open

G3/8" Max 200 bar

Rotator frame  
L73 ø25

Fast maintenance  
greasing nipple

Grapple close

G3/8"  
Max 300 bar

Steel 4 point  
fitting system  
hose guard

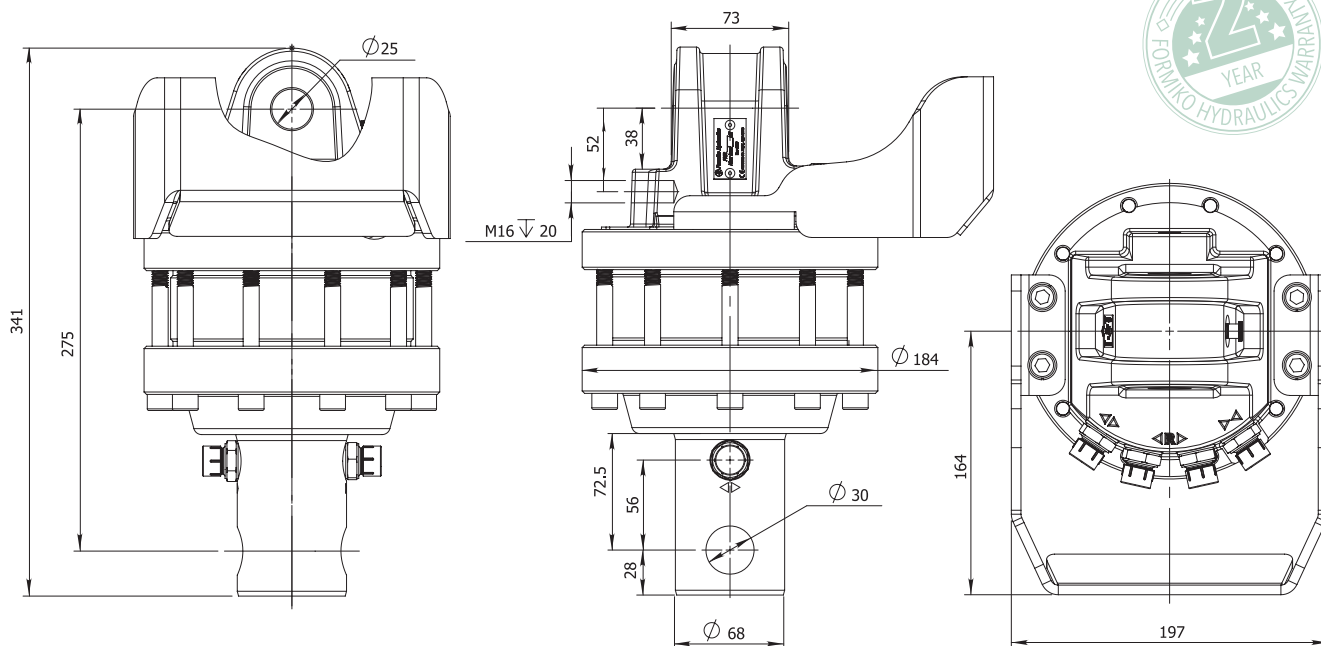
Grapple close

G3/8"

Grapple open

G 3/8"

Reliable ø68 steel shaft  
for fitting the  
grapple with ø25 pin



FORESTRY



AGRICULTURE



CONSTRUCTION



GENERAL CARGO



RECYCLING



# FHR 5.500L ROTATOR

STATIC  
LOAD



DYNAMIC  
LOAD



TORQUE  
at 25MPa



OILFLOW



WEIGHT



Rotate left/right  
G 3/8" Max 250 bar

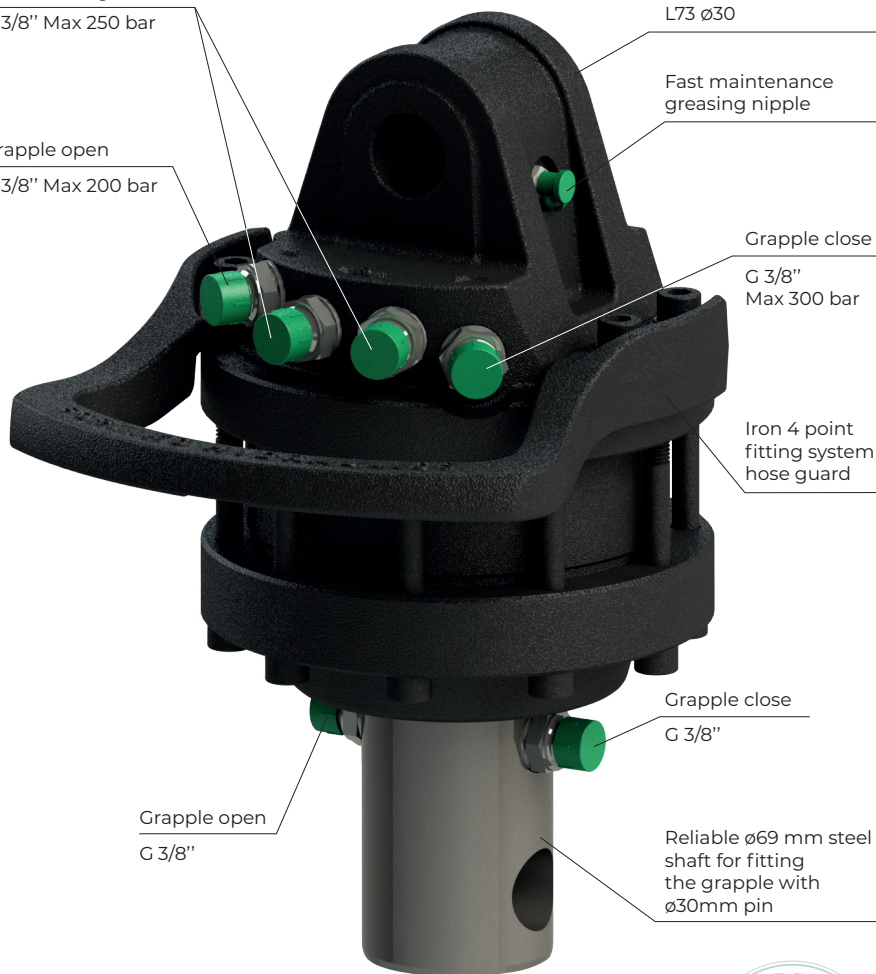
Rotator frame  
L73 ø30

Fast maintenance  
greasing nipple

Grapple open  
G 3/8" Max 200 bar

Grapple close  
G 3/8"  
Max 300 bar

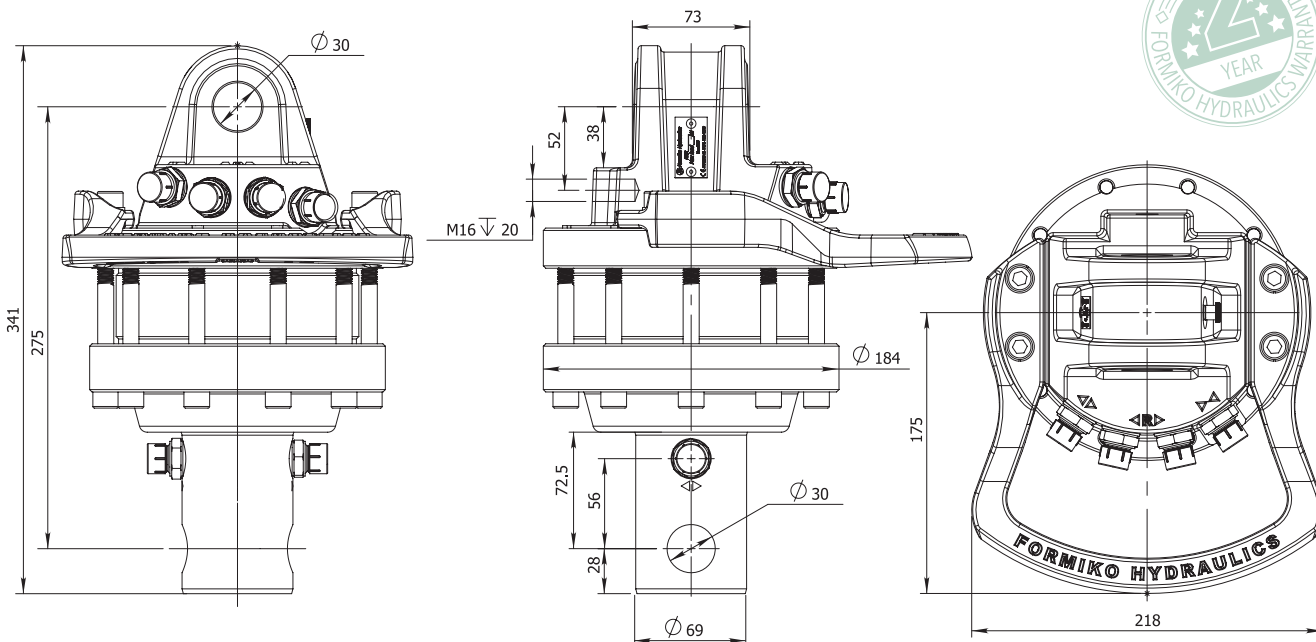
Iron 4 point  
fitting system  
hose guard



Grapple close  
G 3/8"

Grapple open  
G 3/8"

Reliable ø69 mm steel  
shaft for fitting  
the grapple with  
ø30mm pin



FORESTRY



AGRICULTURE



CONSTRUCTION



GENERAL CARGO



RECYCLING

# ROTATOR FHR 5.5LH

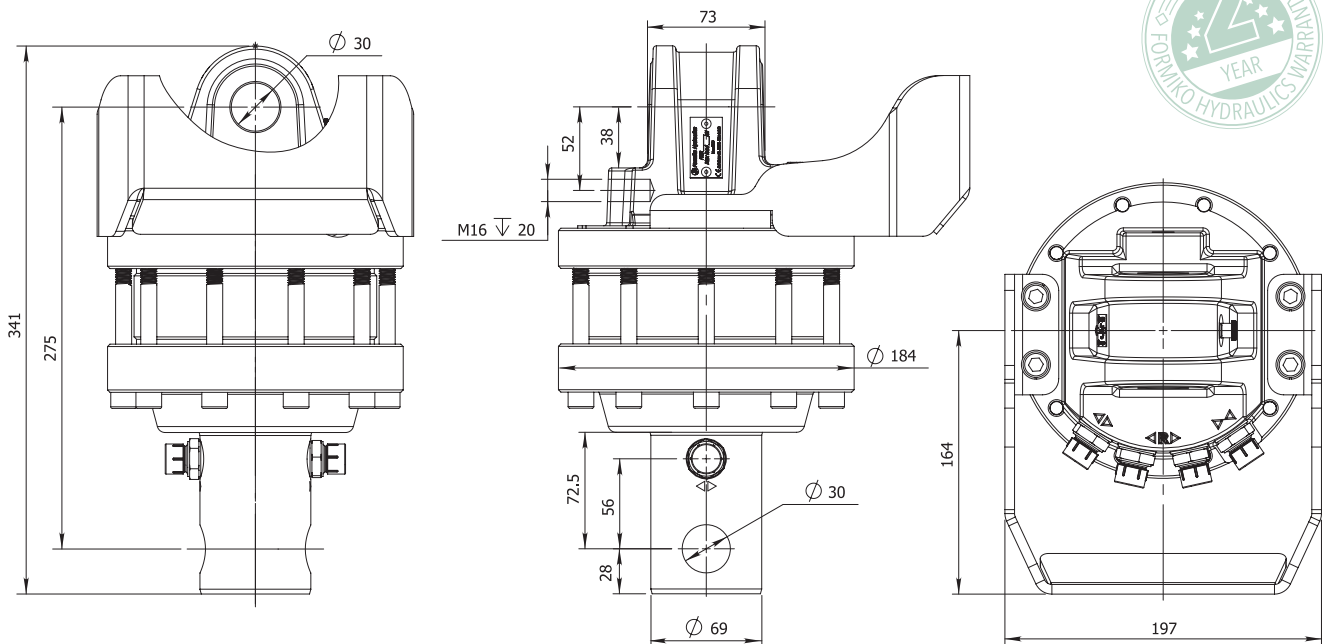
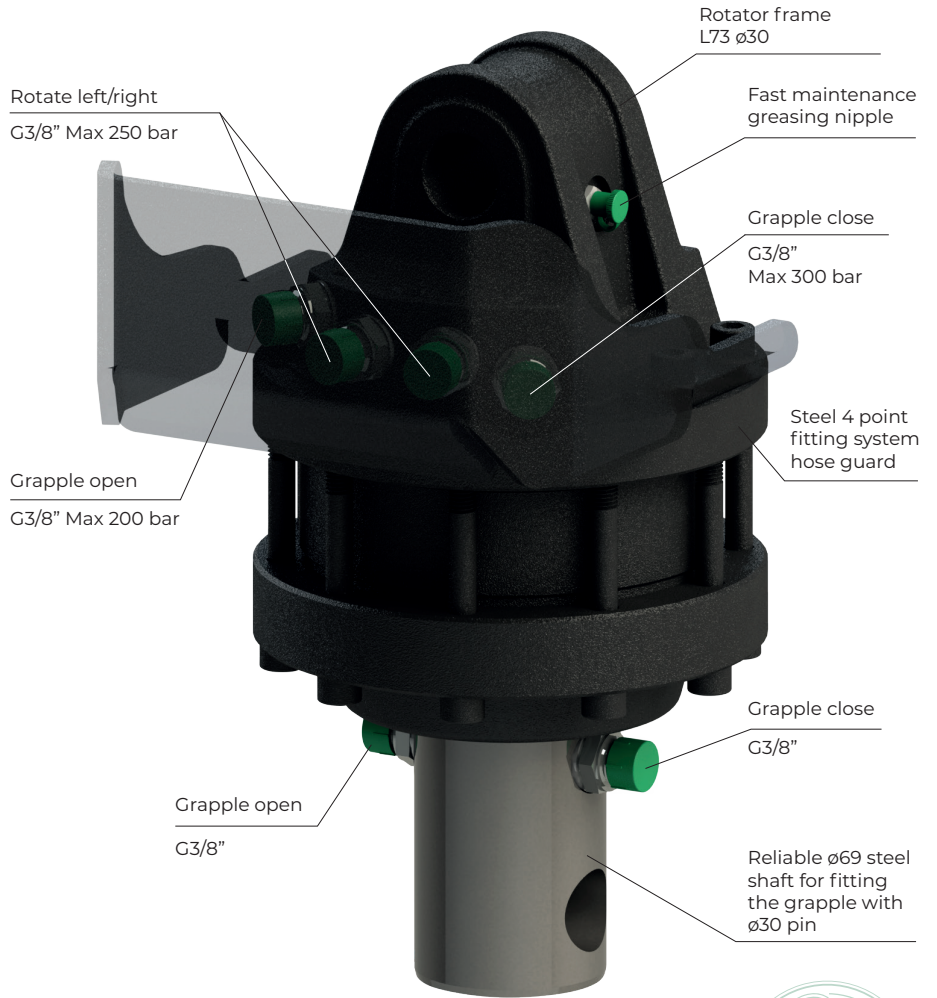
**STATIC LOAD**  
55 kN

**DYNAMIC LOAD**  
25 kN

**TORQUE at 25MPa**  
1300 Nm

**OILFLOW**  
22 l/min

**WEIGHT**  
29 kg



FORESTRY AGRICULTURE CONSTRUCTION GENERAL CARGO RECYCLING

# FHR 5.5L1H ROTATOR

STATIC  
LOAD



55 kN

DYNAMIC  
LOAD



25 kN

TORQUE  
at 25MPa



1300 Nm

OILFLOW



22 l/min

WEIGHT



29 kg

Rotate left/right  
G 3/8" Max 250 bar

Grapple open  
G 3/8" Max 200 bar

Rotator frame  
L73 ø30

Fast maintenance  
greasing nipple

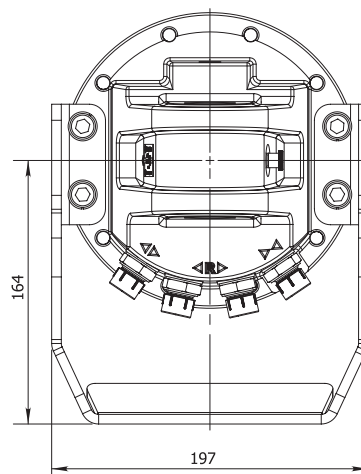
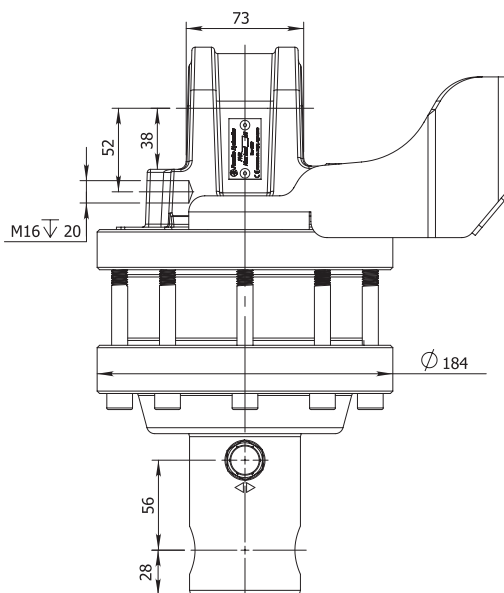
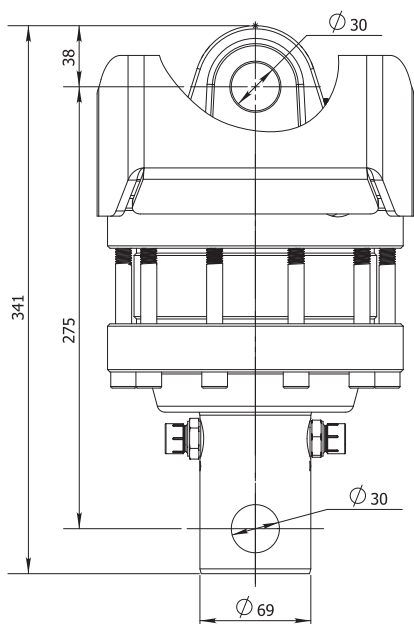
Grapple close  
G 3/8"  
Max 300 bar

Iron 4 point  
fitting system  
hose guard

Grapple close  
G 3/8"

Grapple open  
G 3/8"

Reliable ø69 mm steel  
shaft for fitting  
the grapple with  
ø30mm pin



FORESTRY



AGRICULTURE



CONSTRUCTION



GENERAL CARGO



RECYCLING



# ROTATOR FHR 5.5L-02

STATIC LOAD



DYNAMIC LOAD



TORQUE at 25MPa



OILFLOW



WEIGHT



Rotate left/right  
G3/8" Max 250 bar

Grapple open  
G3/8" Max 200 bar

Rotator frame  
L73 ø30

Fast maintenance  
greasing nipple

Grapple close

G3/8" Max 300 bar

Steel 4 point  
fitting system  
hose guard

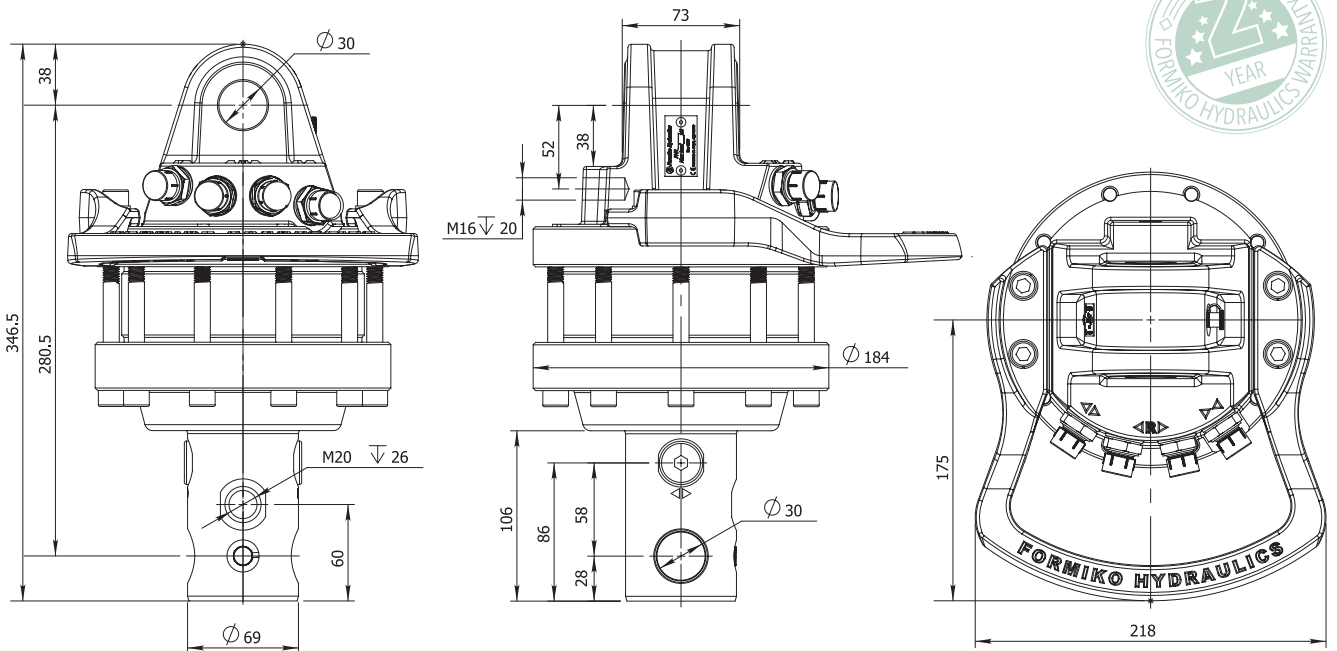
Grapple close

G1/2"

Grapple open

G1/2"

Reliable ø69 steel  
shaft for fitting  
the grapple with  
ø30 pin



FORESTRY



AGRICULTURE



CONSTRUCTION



GENERAL CARGO



RECYCLING



# FHR 5.5L-02H ROTATOR

STATIC  
LOAD



55 kN

DYNAMIC  
LOAD



25 kN

TORQUE  
at 25MPa



1300 Nm

OILFLOW



22 l/min

WEIGHT



29 kg

Rotate left/right  
G 3/8" Max 250 bar  
Grapple open  
G 3/8" Max 200 bar

Rotator frame  
L73 ø30

Fast maintenance  
greasing nipple

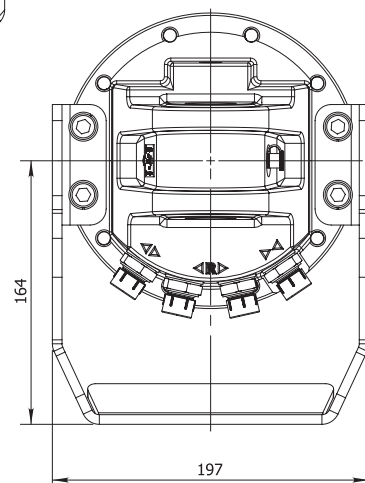
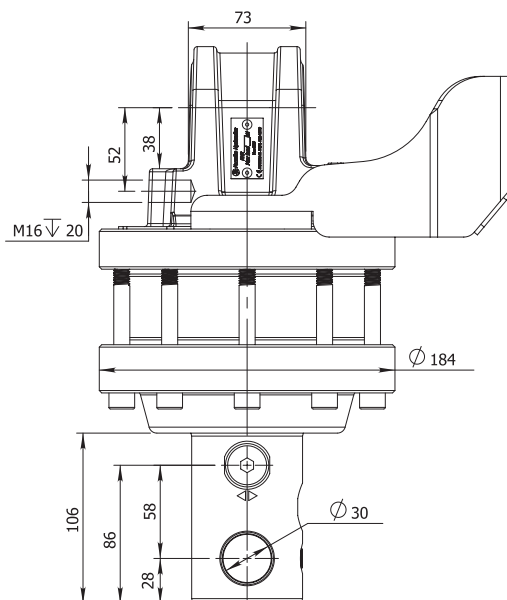
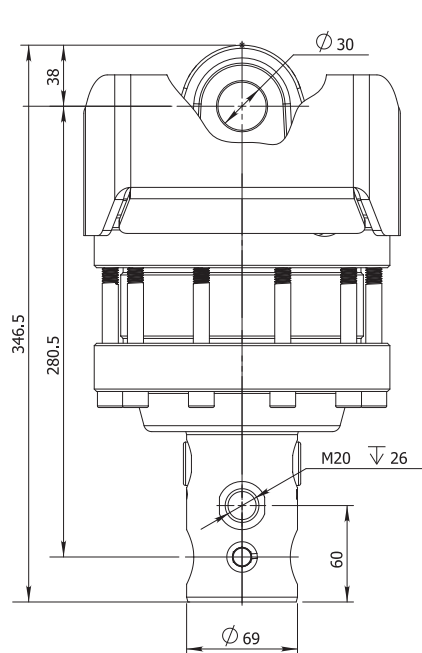
Grapple close  
G 3/8"  
Max 300 bar

Iron 4 point  
fitting system  
hose guard

Grapple close  
G1/2"

Grapple open  
G1/2"

Reliable ø69 mm steel  
shaft for fitting  
the grapple with  
ø30mm pin



FORESTRY



AGRICULTURE



CONSTRUCTION



GENERAL CARGO



RECYCLING

# ROTATOR FHR 5.5L68H

**STATIC LOAD**  
55 kN

**DYNAMIC LOAD**  
25 kN

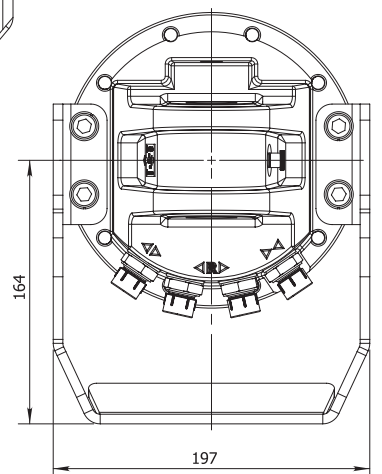
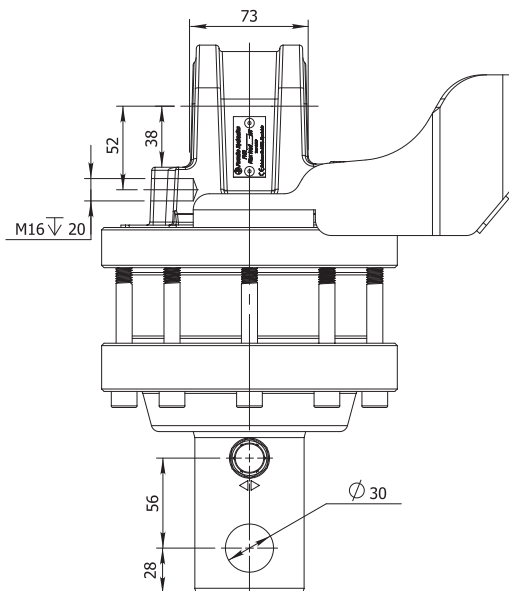
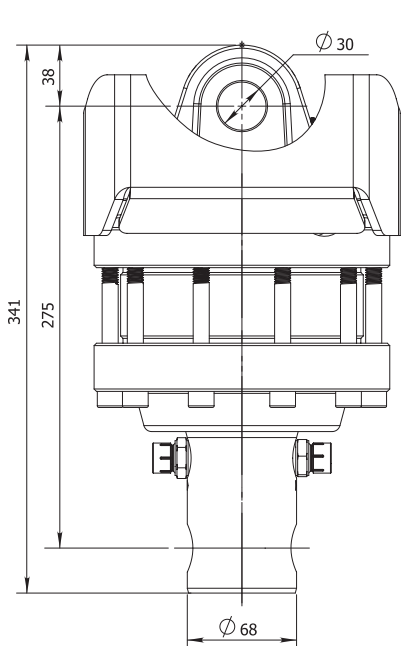
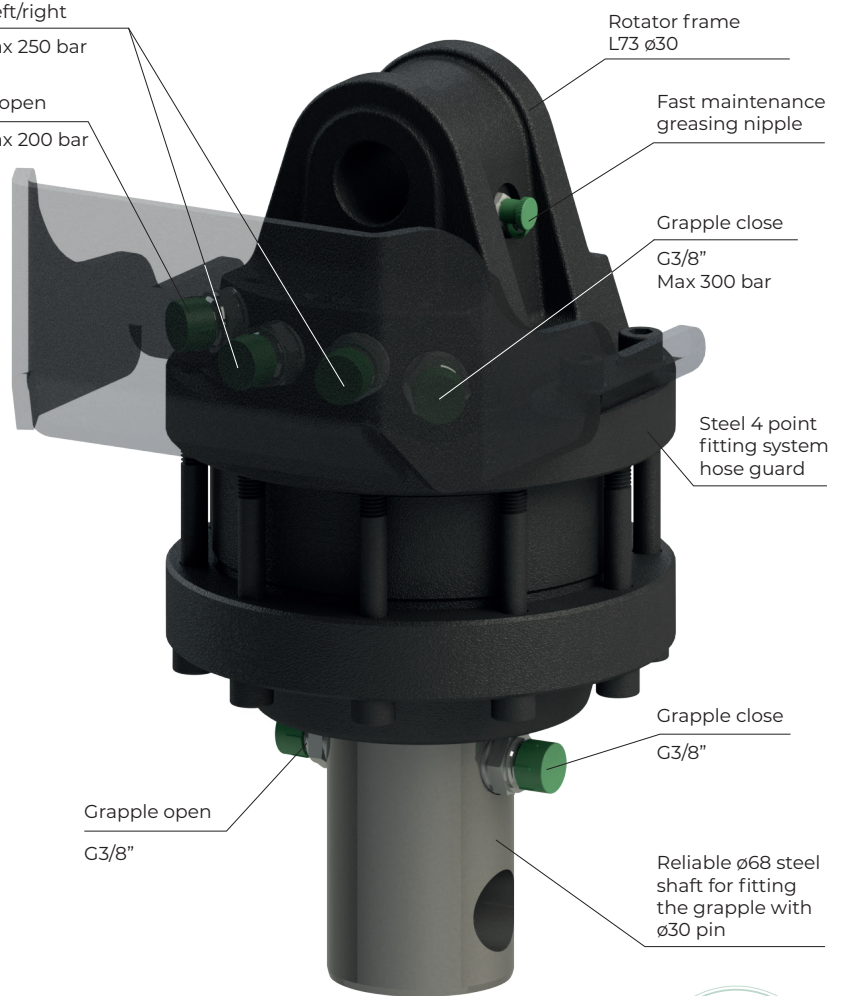
**TORQUE at 25MPa**  
1300 Nm

**OILFLOW**  
22 l/min

**WEIGHT**  
29 kg

Rotate left/right  
G3/8" Max 250 bar

Grapple open  
G3/8" Max 200 bar



FORESTRY AGRICULTURE CONSTRUCTION GENERAL CARGO RECYCLING

# FHR 5.5L168H ROTATOR

STATIC  
LOAD



DYNAMIC  
LOAD



TORQUE  
at 25MPa



OILFLOW



WEIGHT



Rotate left/right  
G 3/8" Max 250 bar

Grapple open  
G 3/8" Max 200 bar

Rotator frame  
L73 ø30

Fast maintenance  
greasing nipple

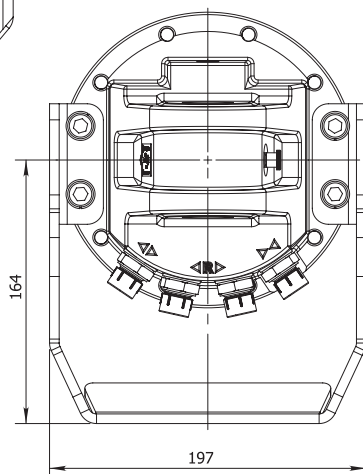
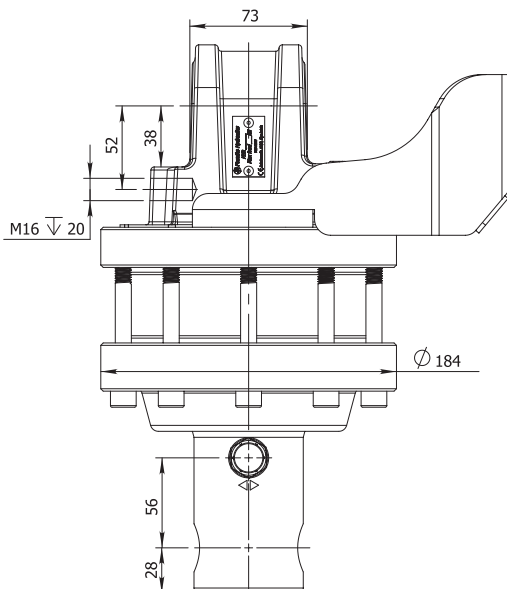
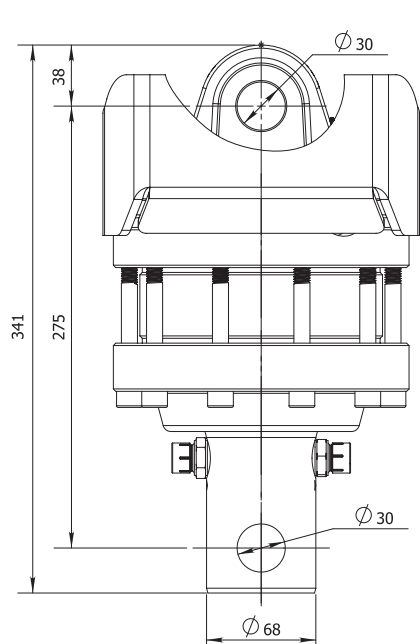
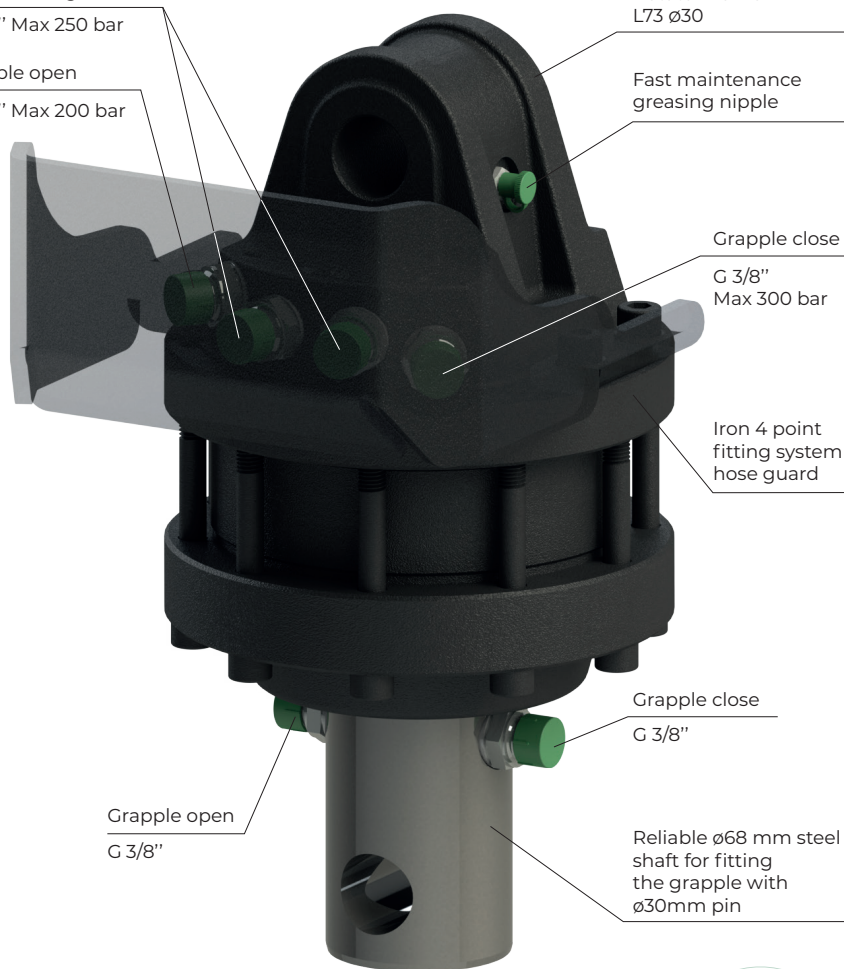
Grapple close  
G 3/8"  
Max 300 bar

Iron 4 point  
fitting system  
hose guard

Grapple close  
G 3/8"

Grapple open  
G 3/8"

Reliable ø68 mm steel  
shaft for fitting  
the grapple with  
ø30mm pin



FORESTRY



AGRICULTURE



CONSTRUCTION



GENERAL CARGO



RECYCLING

# ROTATOR FHR 5.500SF

STATIC LOAD



DYNAMIC LOAD



TORQUE at 25MPa



OILFLOW



WEIGHT



Rotate left/right  
G3/8" Max 250 bar

Grapple open  
G3/8" Max 200 bar

Rotator frame  
L73 ø30

Fast maintenance greasing nipple

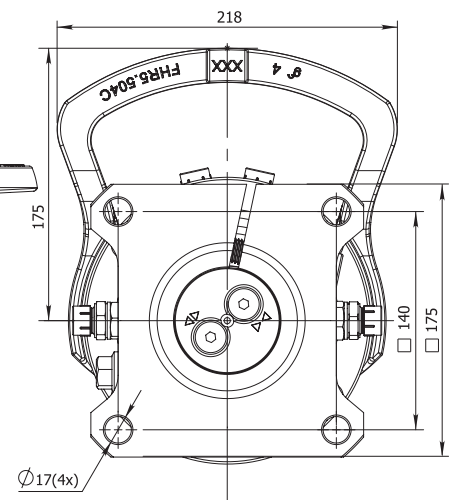
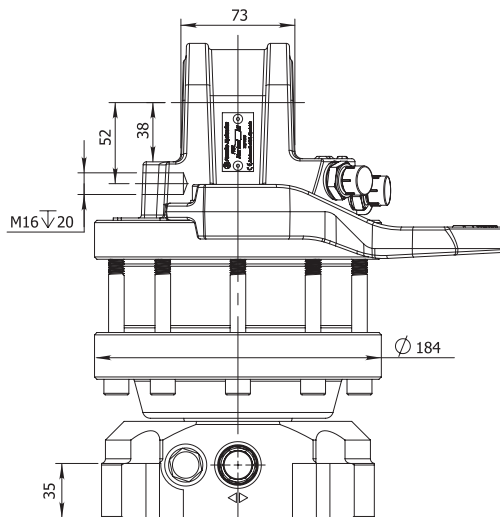
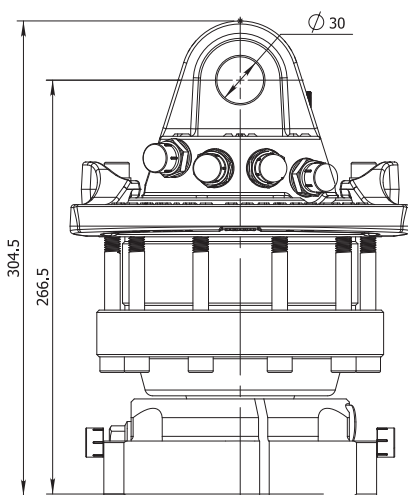
Grapple close  
G3/8" Max 300 bar

Iron 4 point fitting system hose guard

Grapple open  
G3/8"

Grapple close  
G3/8"

Optional open/close channels



FORESTRY



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CONSTRUCTION



GENERAL CARGO



RECYCLING



# FHR 5.5SFH ROTATOR

STATIC LOAD



DYNAMIC LOAD



TORQUE at 25MPa



OILFLOW



WEIGHT



Rotate left/right  
G3/8" Max 250 bar

Grapple open  
G3/8" Max 200 bar

Rotator frame  
L73 ø30

Fast maintenance greasing nipple

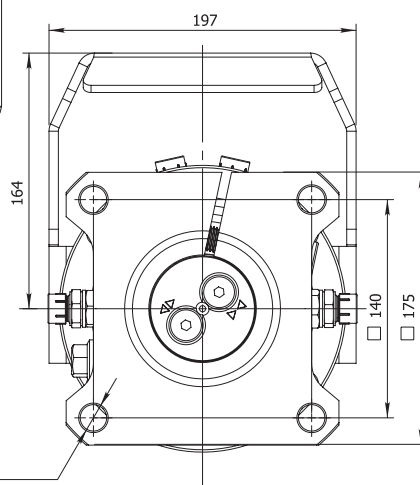
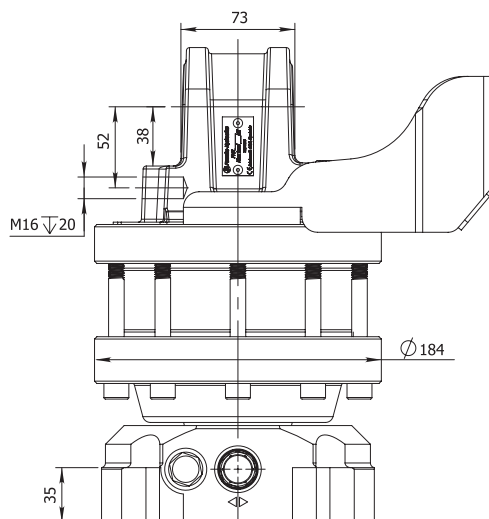
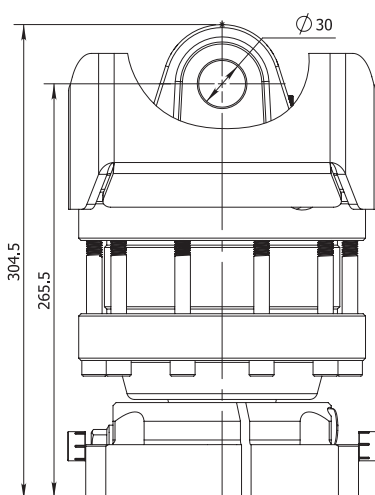
Grapple close  
G3/8" Max 300 bar

Steel 4 point fitting system hose guard

Grapple open  
G3/8"

Grapple close  
G3/8"

Optional open/close channels



FORESTRY



AGRICULTURE



CONSTRUCTION



GENERAL CARGO



RECYCLING

# ROTATOR FHR 5.500F6

STATIC LOAD



DYNAMIC LOAD



TORQUE at 25MPa



OILFLOW



WEIGHT



**FORGED STEEL**

Rotate left/right  
G3/8" Max 250 bar

Grapple open  
G3/8" Max 200 bar

Grapple open  
G1/2"

Optional open/close channels G3/8

Rotator frame  
L73 ø30

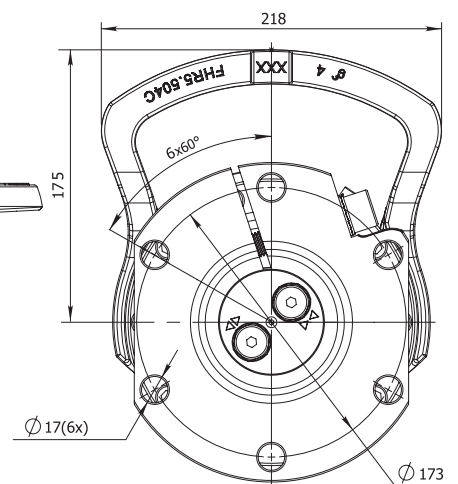
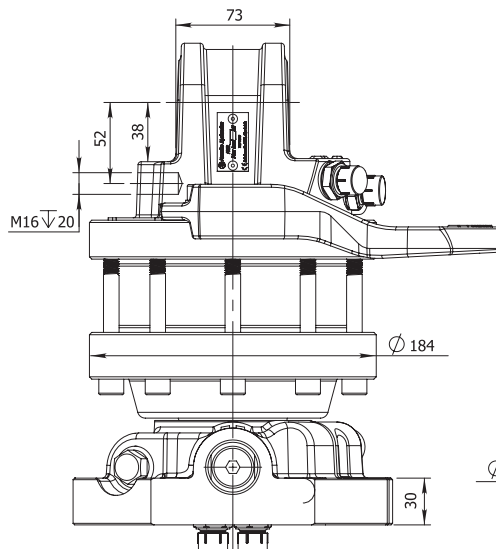
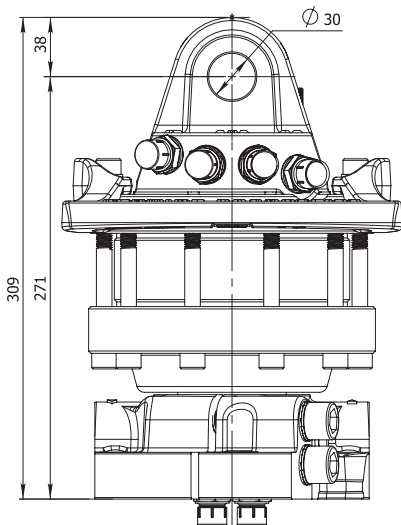
Fast maintenance greasing nipple

Grapple close  
G3/8"  
Max 300 bar

Iron 4 point fitting system hose guard

Grapple close  
G1/2"

Robust and shock resistant steel flange for fitting the grapple in standard pattern with 6xM16 bolts



FORESTRY



AGRICULTURE



CONSTRUCTION



GENERAL CARGO



RECYCLING



# FHR 5.5F6H ROTATOR

**STATIC LOAD**  
55 kN

**DYNAMIC LOAD**  
25 kN

**TORQUE at 25MPa**  
1300 Nm

**OILFLOW**  
22 l/min

**WEIGHT**  
36 kg



Rotate left/right  
G3/8" Max 250 bar

Grapple open  
G3/8" Max 200 bar

Grapple open  
G1/2"

Optional open/close  
channels G3/8

Rotator frame  
L73 ø30

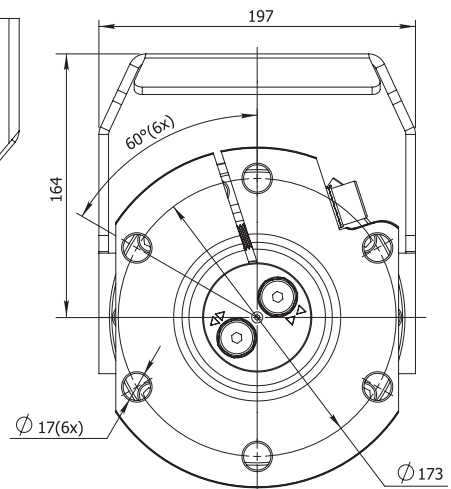
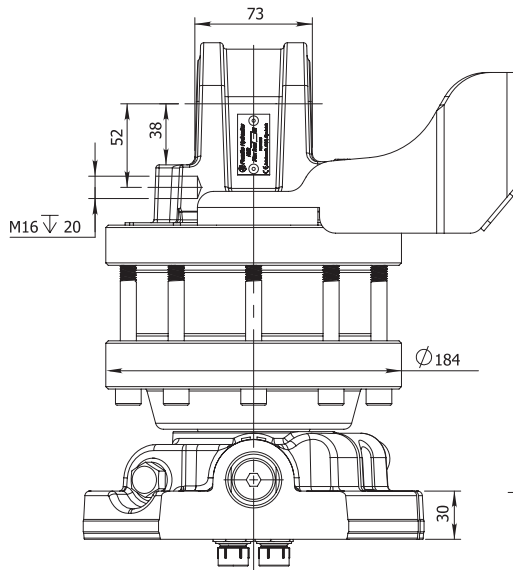
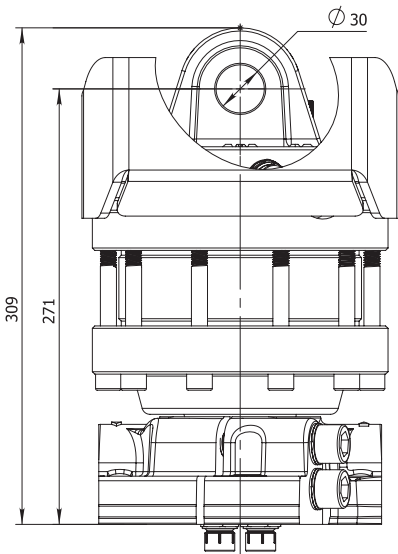
Fast maintenance  
greasing nipple

Grapple close  
G3/8"  
Max 300 bar

Iron 4 point  
fitting system  
hose guard

Grapple close  
G1/2"

Robust and shock resistant  
steel flange for fitting the  
grapple in standard pattern  
with 6xM16 bolts



FORESTRY



AGRICULTURE



CONSTRUCTION



GENERAL CARGO



RECYCLING



# ROTATOR FHR 6LD1-68

**STATIC LOAD**  
60 kN

**DYNAMIC LOAD**  
30 kN

**TORQUE at 25MPa**  
1850 Nm

**OILFLOW**  
25 l/min

**WEIGHT**  
37 kg

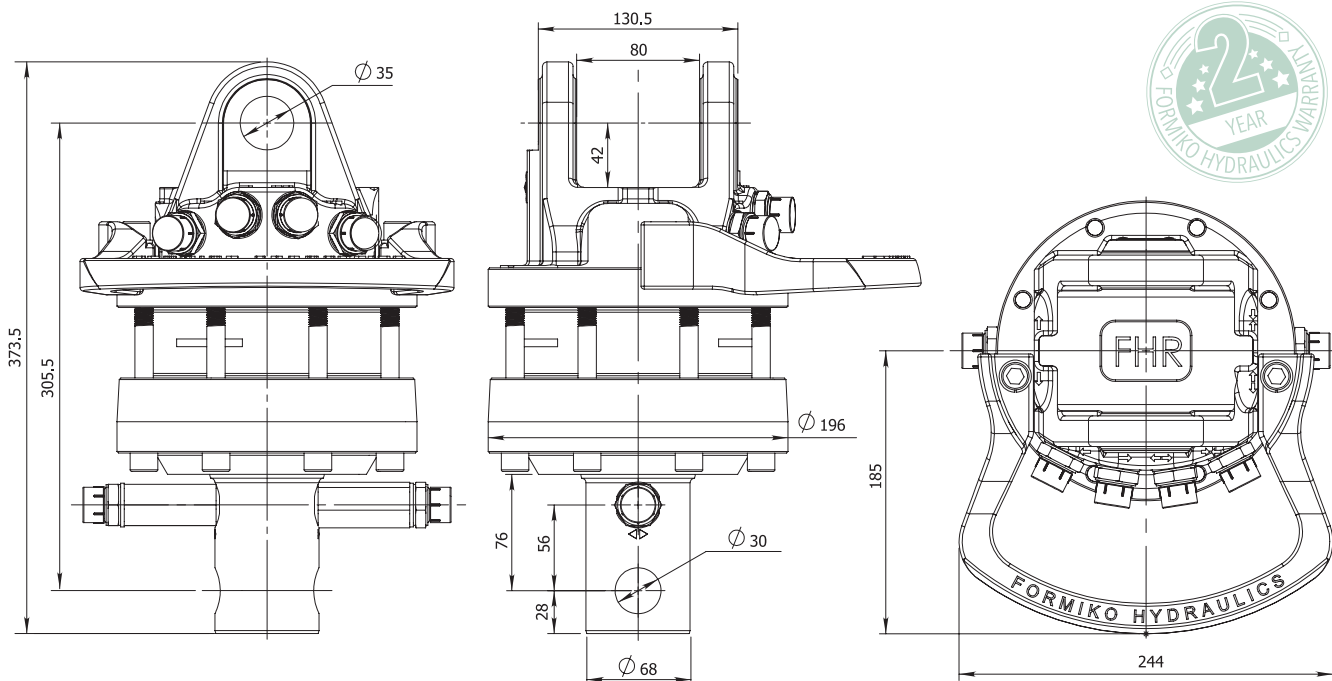
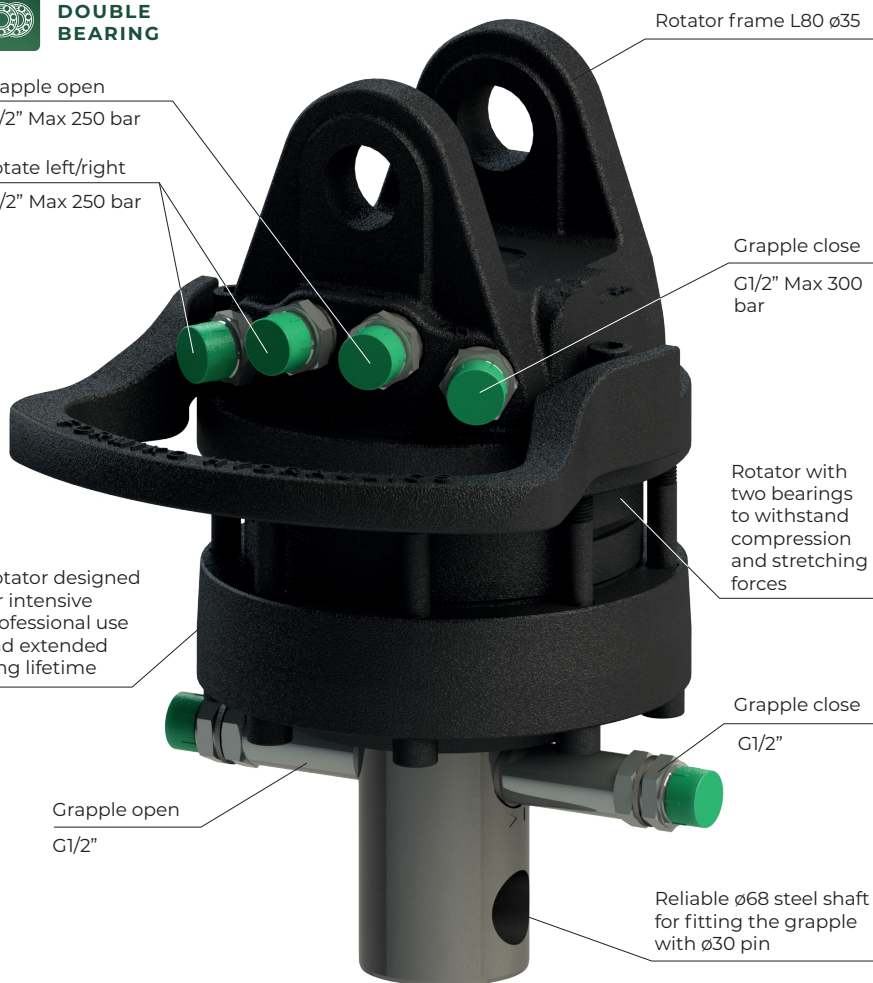


**DOUBLE BEARING**

Grapple open  
G1/2" Max 250 bar

Rotate left/right  
G1/2" Max 250 bar

Rotator designed for intensive professional use and extended long lifetime



FORESTRY
AGRICULTURE
CONSTRUCTION
GENERAL CARGO
RECYCLING

# FHR 6LD1-68H ROTATOR

STATIC LOAD



60 kN

DYNAMIC LOAD



30 kN

TORQUE at 25MPa



1850 Nm

OILFLOW



25 l/min

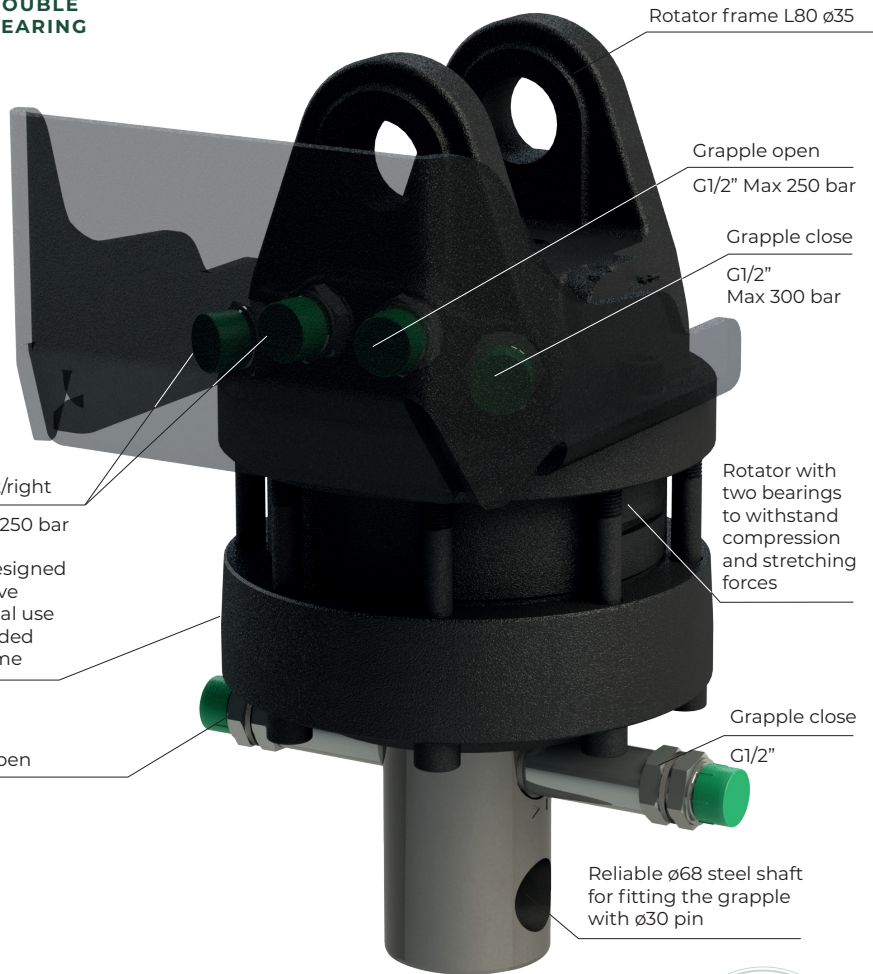
WEIGHT



37 kg



DOUBLE BEARING



Rotator frame L80 ø35

Grapple open  
G1/2" Max 250 bar

Grapple close  
G1/2" Max 300 bar

Rotate left/right  
G1/2" Max 250 bar

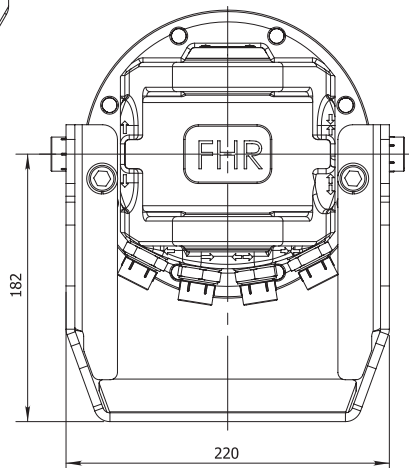
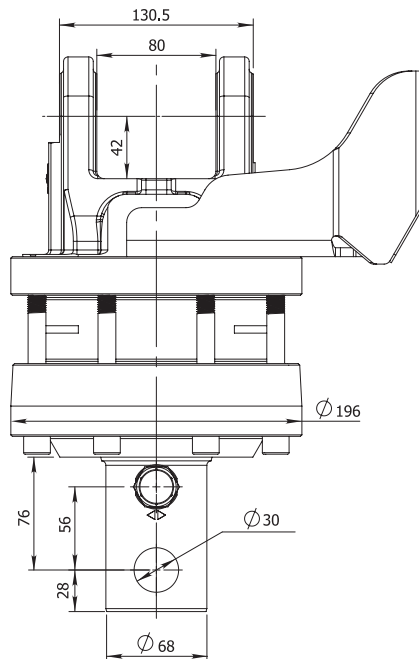
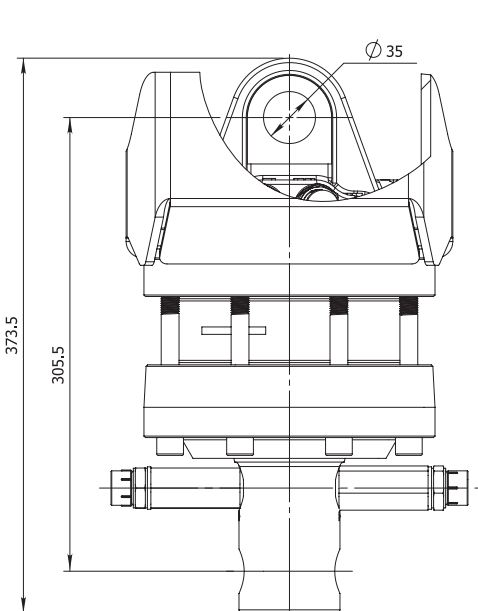
Rotator designed for intensive professional use and extended long lifetime

Rotator with two bearings to withstand compression and stretching forces

Grapple open  
G1/2"

Grapple close  
G1/2"

Reliable ø68 steel shaft for fitting the grapple with ø30 pin



FORESTRY



AGRICULTURE



CONSTRUCTION



GENERAL CARGO



RECYCLING

# ROTATOR FHR 6LD1-69

**STATIC LOAD**  
60 kN

**DYNAMIC LOAD**  
30 kN

**TORQUE at 25MPa**  
1850 Nm

**OILFLOW**  
25 l/min

**WEIGHT**  
37 kg



**DOUBLE BEARING**

Grapple open  
G1/2" Max 250 bar

Rotate left/right  
G1/2" Max 250 bar

Rotator designed for intensive professional use and extended long lifetime

Grapple open  
G1/2"

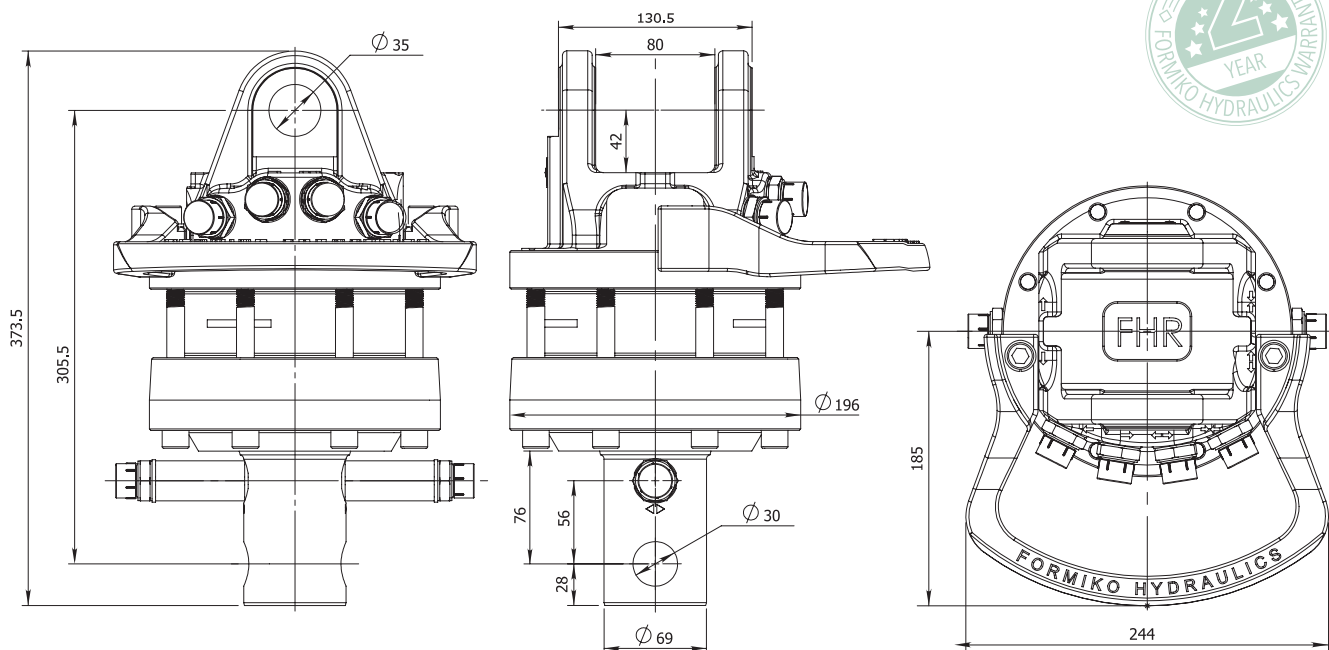
Rotator frame L80 ø35

Grapple close  
G1/2" Max 300 bar

Rotator with two bearings to withstand compression and stretching forces

Grapple close  
G1/2"

Reliable ø69 steel shaft for fitting the grapple with ø30 pin



FORESTRY AGRICULTURE CONSTRUCTION GENERAL CARGO RECYCLING

# FHR 6LD1-69H ROTATOR

STATIC LOAD



DYNAMIC LOAD



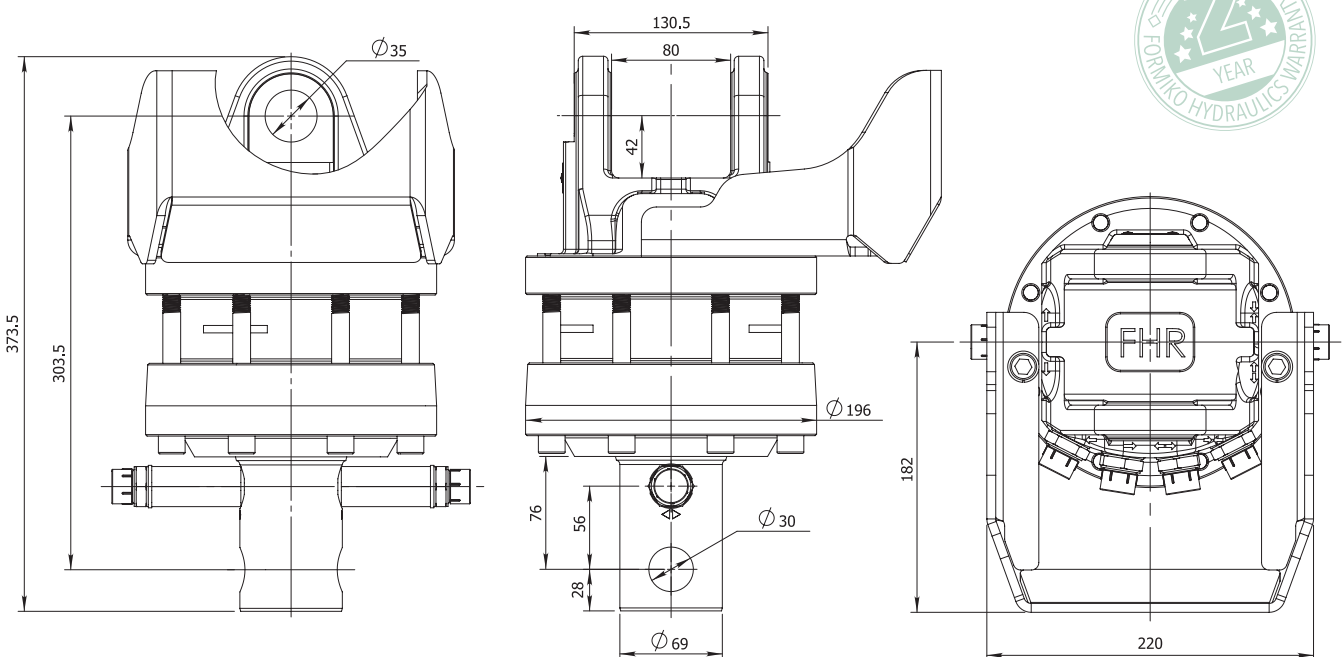
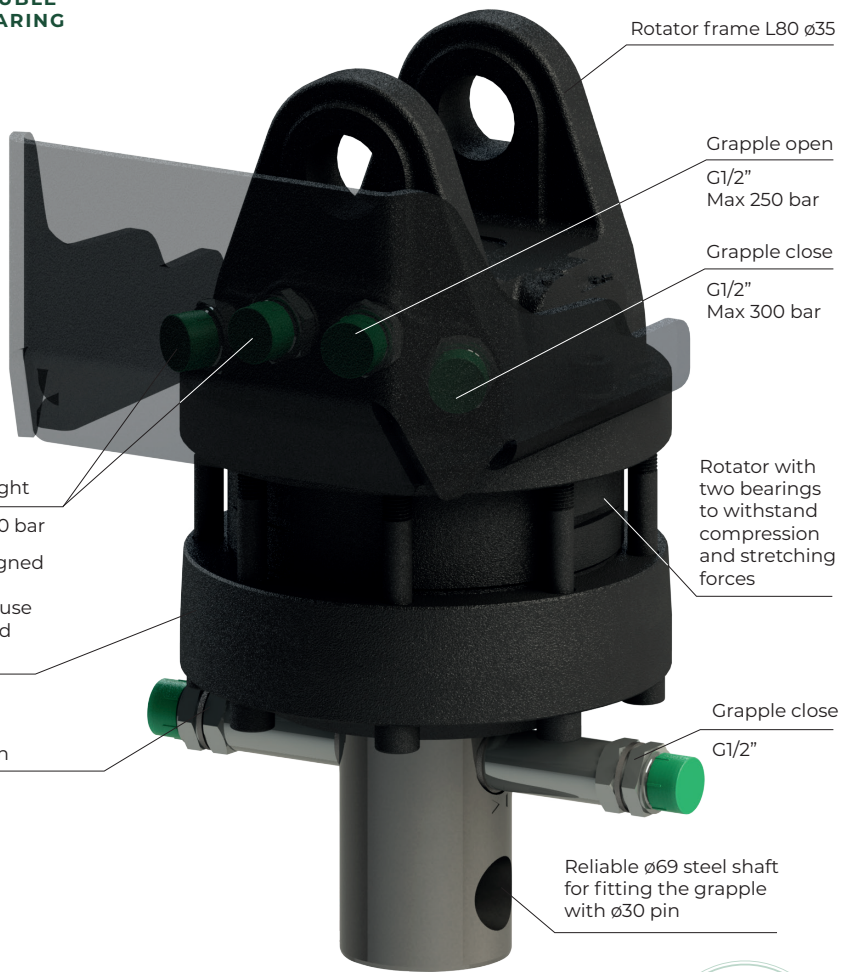
TORQUE at 25MPa



OILFLOW



WEIGHT



# ROTATOR FHR 6LD1-78

**STATIC LOAD**  
60 kN

**DYNAMIC LOAD**  
30 kN

**TORQUE at 25MPa**  
1850 Nm

**OILFLOW**  
25 l/min

**WEIGHT**  
39 kg



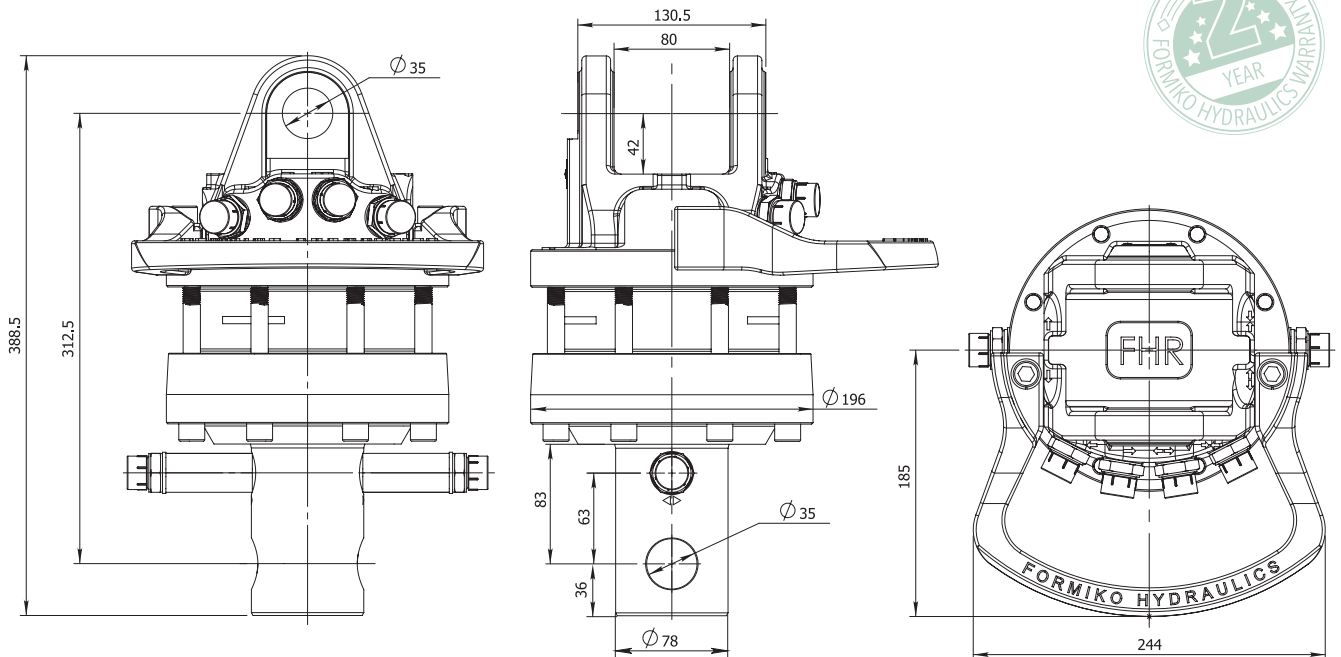
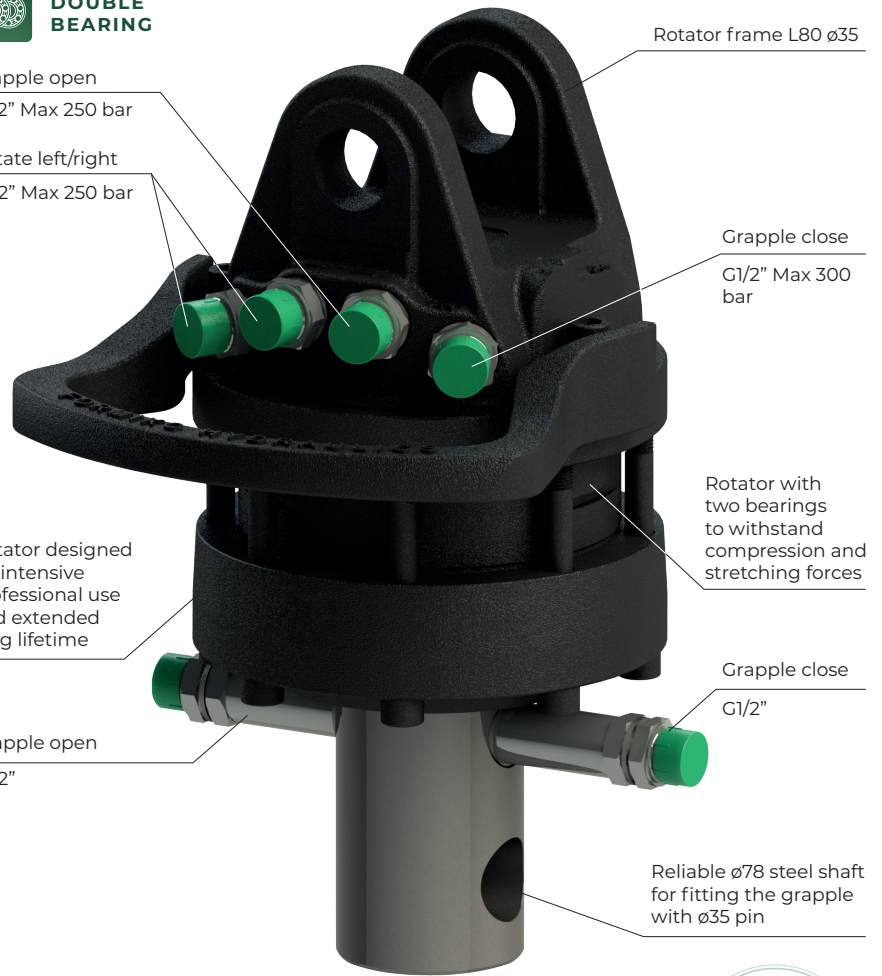
**DOUBLE BEARING**

Grapple open  
G1/2" Max 250 bar

Rotate left/right  
G1/2" Max 250 bar

Rotator designed for intensive professional use and extended long lifetime

Grapple open  
G1/2"



FORESTRY AGRICULTURE CONSTRUCTION GENERAL CARGO RECYCLING

# FHR 6LD1-78H ROTATOR

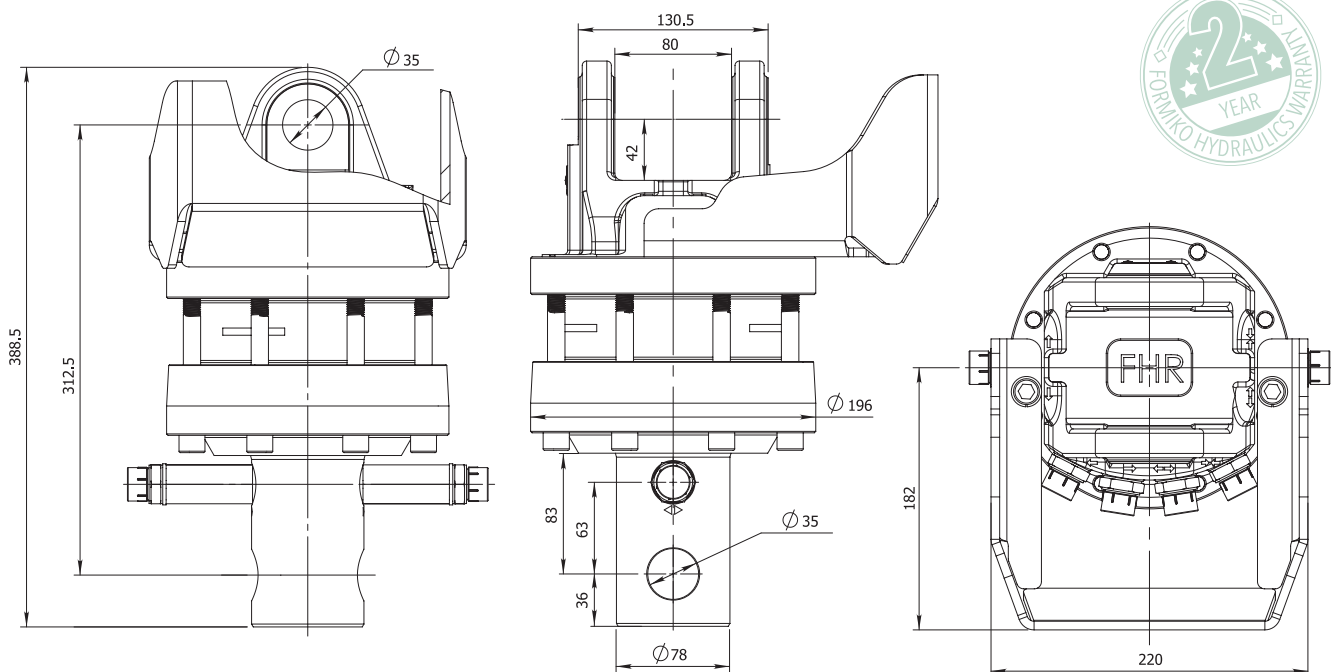
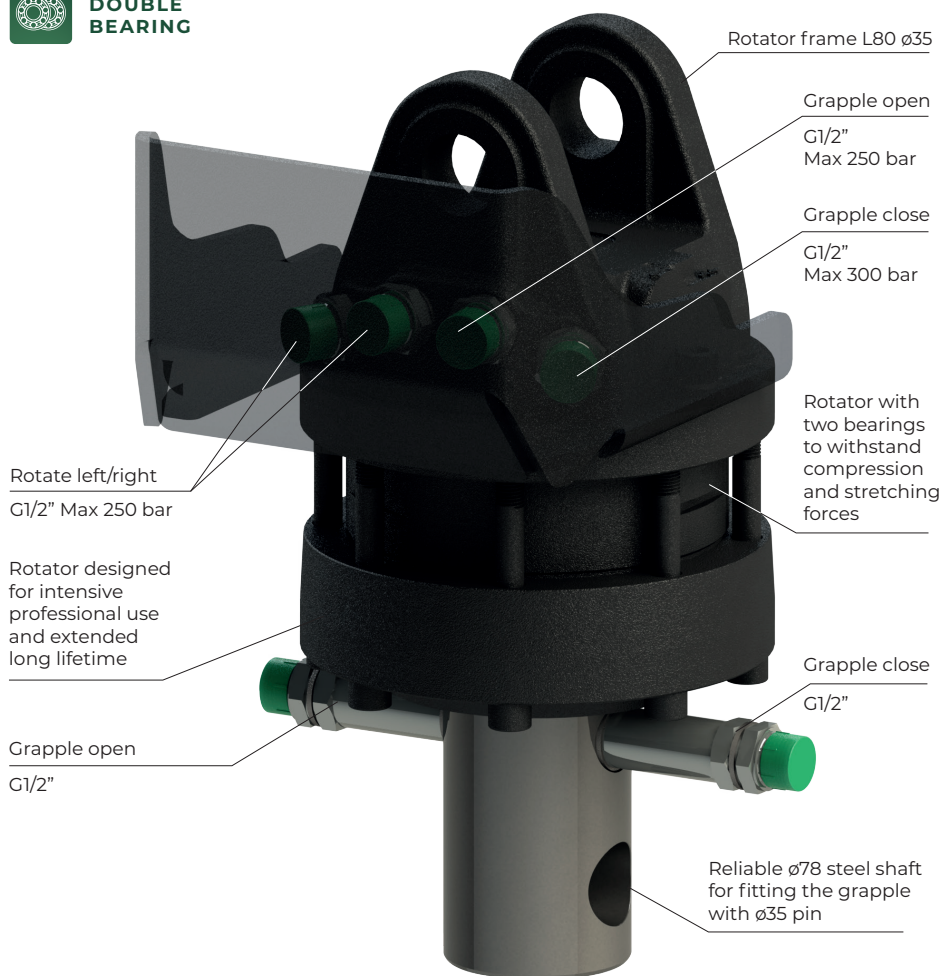
**STATIC LOAD**  
60 kN

**DYNAMIC LOAD**  
30 kN

**TORQUE at 25MPa**  
1850 Nm

**OILFLOW**  
25 l/min

**WEIGHT**  
40 kg



# ROTATOR FHR 6FD1

STATIC LOAD



DYNAMIC LOAD



TORQUE at 25MPa



OILFLOW



WEIGHT



**DOUBLE BEARING**

**FORGED STEEL**

Grapple open  
G1/2" Max 250 bar

Rotate left/right  
G1/2" Max 250 bar

Rotator with two bearings to withstand compression and stretching forces

Grapple open  
G1/2"

Rotator frame L80 ø35

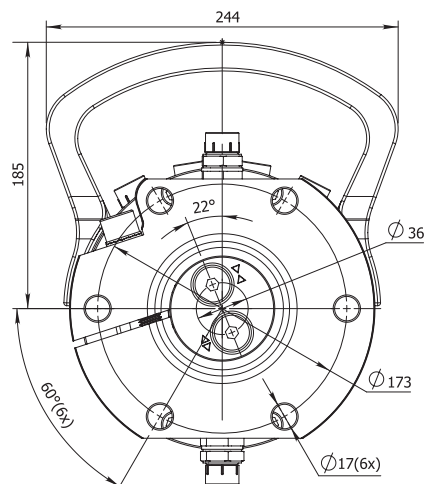
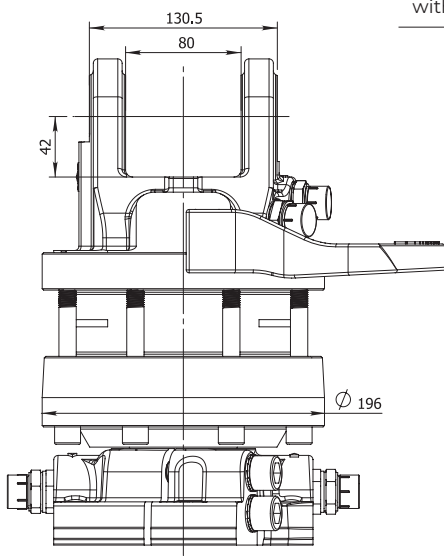
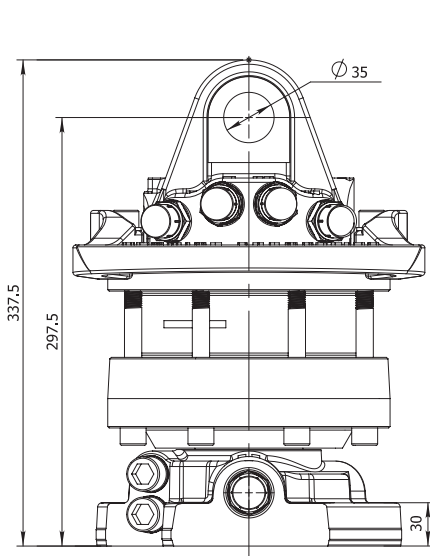
Grapple close  
G1/2" Max 300 bar

Rotator designed for intensive professional use and extended long lifetime

Grapple close  
G1/2"

Optional open/close channels

Robust and shock resistant steel flange for fitting the grapple in standard pattern with 6xM16 bolts



FORESTRY



AGRICULTURE



CONSTRUCTION



GENERAL CARGO



RECYCLING



# FHR 6FD1H ROTATOR

STATIC LOAD



DYNAMIC LOAD



TORQUE at 25MPa



OILFLOW

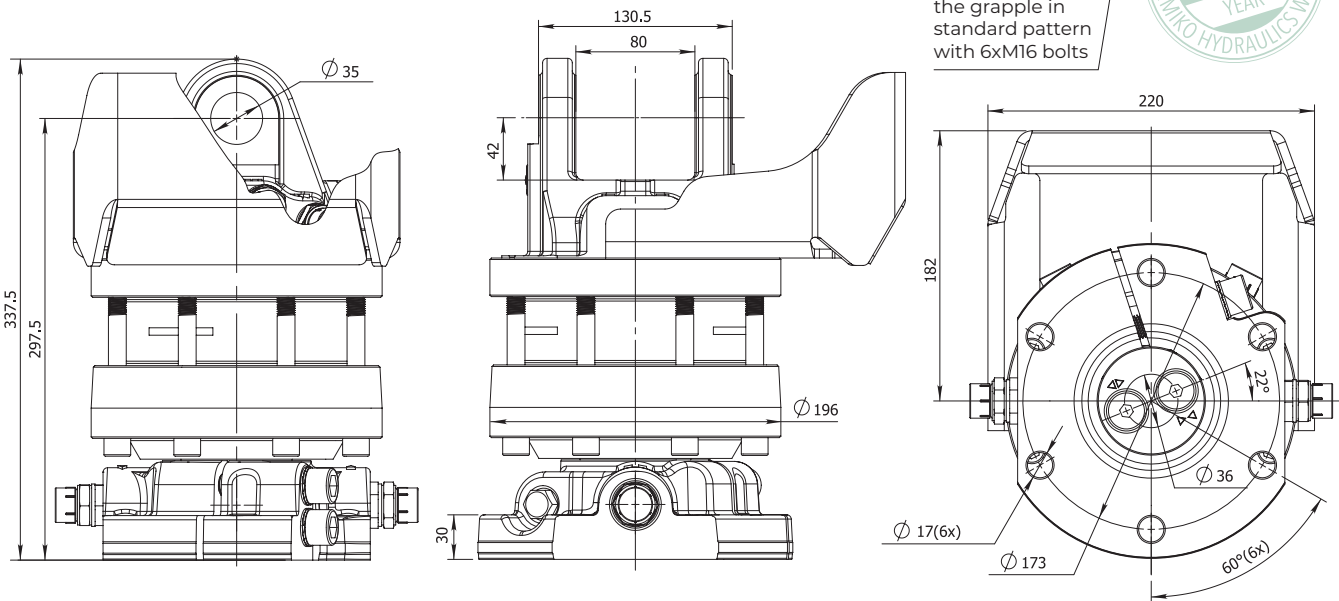
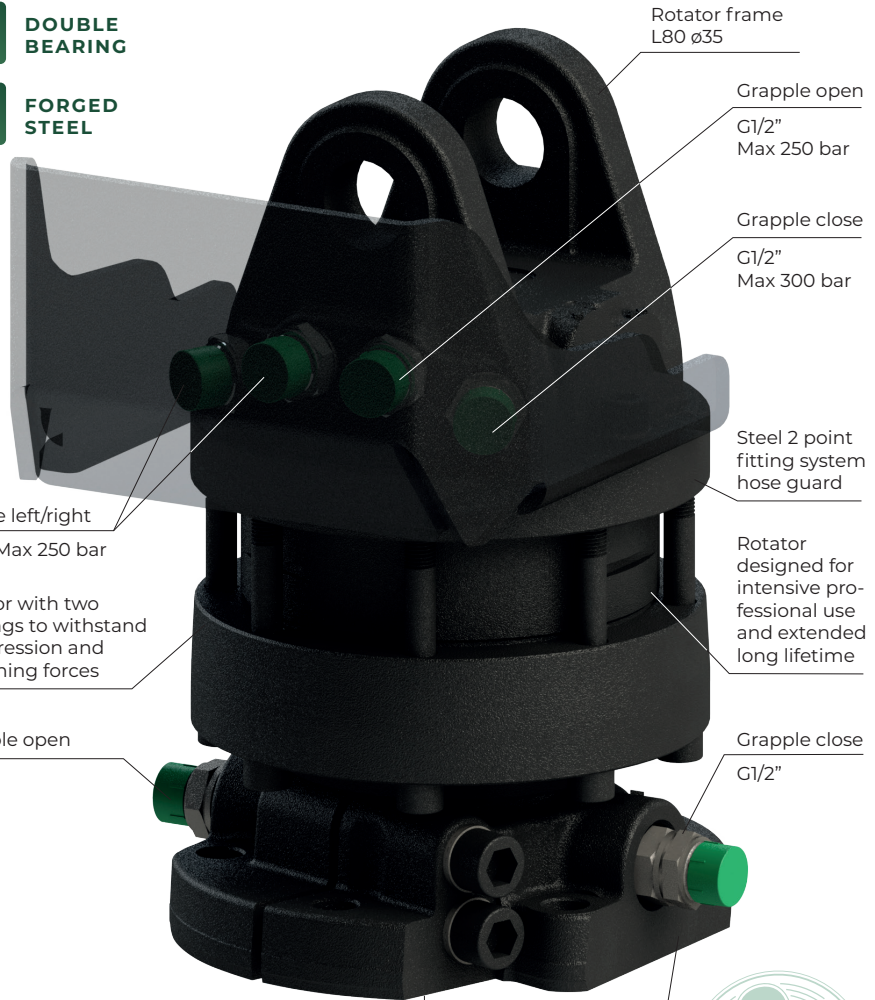


WEIGHT



 **DOUBLE BEARING**

 **FORGED STEEL**



FORESTRY



AGRICULTURE



CONSTRUCTION



GENERAL CARGO



RECYCLING



STATIC LOAD



60 kN

DYNAMIC LOAD



30 kN

TORQUE at 25MPa



1850 Nm

OILFLOW



25 l/min

WEIGHT



39 kg



OPPOSITE HOSE CONNECTION



DOUBLE BEARING

Grapple close  
G1/2" Max 300 bar  
Grapple open  
G1/2" Max 250 bar

Rotator frame  
L80 ø35

Rotate left/right  
G1/2" Max 250 bar

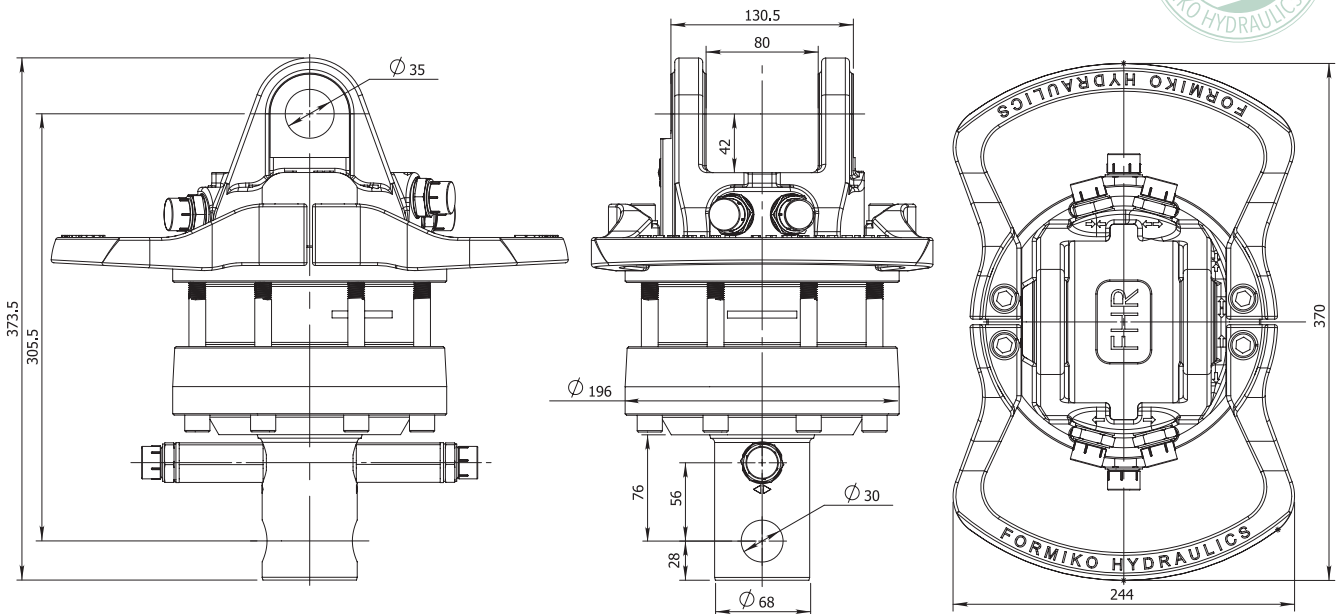
Rotator designed for intensive professional use and extended long lifetime

Rotator with two bearings to withstand compression and stretching forces

Grapple open  
G1/2"

Grapple close

G1/2"  
Reliable ø68 steel shaft for fitting the grapple with ø30 pin



FORESTRY



AGRICULTURE



CONSTRUCTION



GENERAL CARGO



RECYCLING



# FHR 6LD2-78 ROTATOR

STATIC LOAD



DYNAMIC LOAD



TORQUE at 25MPa



OILFLOW



WEIGHT



**OPPOSITE HOSE CONNECTION**

**DOUBLE BEARING**

Grapple close  
G1/2" Max 300 bar  
Grapple open  
G1/2" Max 250 bar

Rotator frame  
L80 ø35

Rotate left/right  
G1/2" Max 250 bar

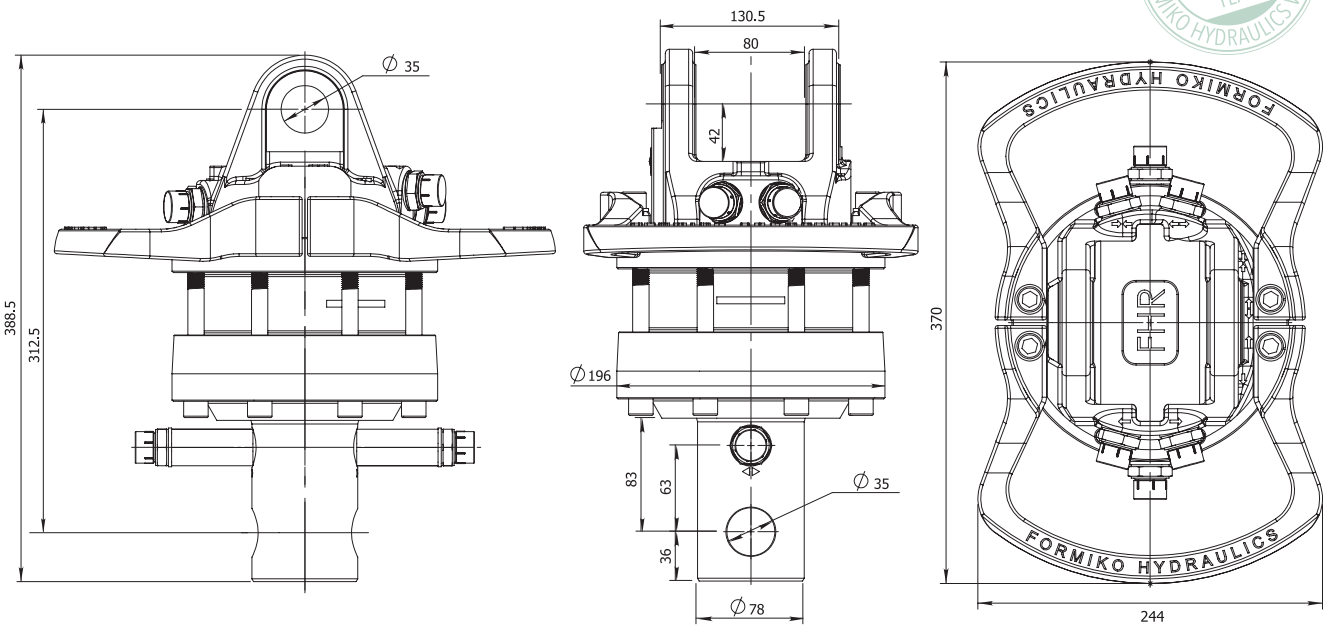
Rotator designed for intensive professional use and extended long lifetime

Rotator with two bearings to withstand compression and stretching forces

Grapple close  
G1/2"

Grapple open  
G1/2"

Reliable ø78 steel shaft for fitting the grapple with ø35 pin



FORESTRY



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CONSTRUCTION



GENERAL CARGO



RECYCLING

# ROTATOR FHR 6FD2

STATIC LOAD



DYNAMIC LOAD



TORQUE at 25MPa



OILFLOW



WEIGHT



OPPOSITE HOSE CONNECTION



DOUBLE BEARING



FORGED STEEL

Grapple open  
G1/2"  
Max 250 bar

Grapple close  
G1/2" Max 300 bar

Rotator designed for intensive professional use and extended long lifetime

Grapple open  
G1/2"

Rotator frame L80 ø35

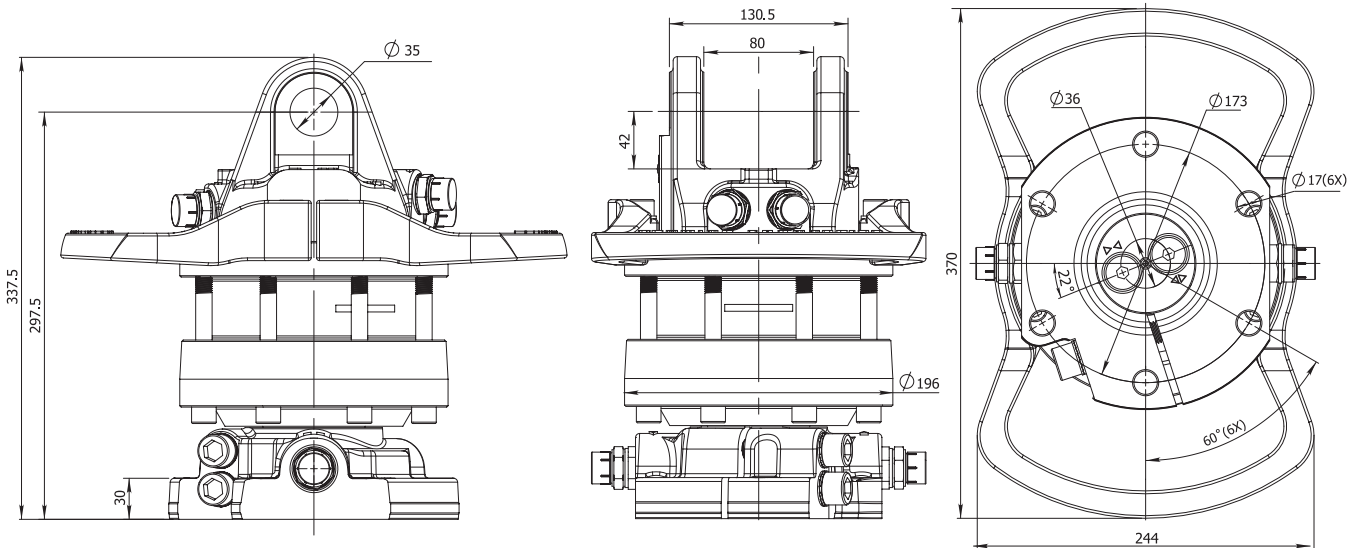
Rotate left/right  
G1/2" Max 250 bar

Rotator with two bearings to withstand compression and stretching forces

Grapple close  
G1/2"

Optional open/close channels

Robust and shock resistant steel flange for fitting the grapple in standard pattern with 6xM16 bolts



FORESTRY



AGRICULTURE



CONSTRUCTION



GENERAL CARGO



RECYCLING



# FHR 6FF2S ROTATOR

**STATIC LOAD**



60 kN

**DYNAMIC LOAD**



30 kN

**TORQUE at 25MPa**



1850 Nm

**OILFLOW**



25 l/min

**WEIGHT**



47 kg

**DOUBLE BEARING**

Grapple open  
G3/8"  
Max 250 bar

Grapple close  
G3/8"  
Max 300 bar

Rotate left/right  
G3/8"  
Max 250 bar

Rotator with two bearings to withstand compression and stretching forces

Grapple open  
G3/8"

Grapple close  
G3/8"

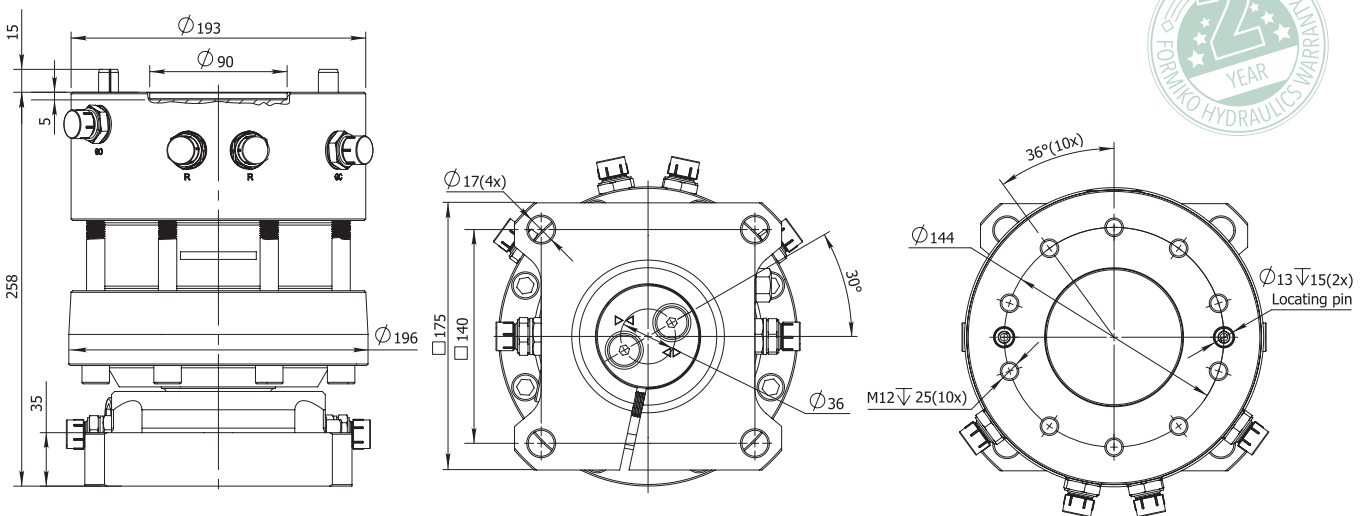
Optional open/close channels

Robust and shock resistant steel flange for fitting the grapple in standard pattern

Rotator frame Ø193 for fitting plate Ø144 M12(10x)

Grapple close  
G3/8"  
Max 300 bar

Rotator designed for intensive professional use and extended long lifetime



FORESTRY



AGRICULTURE



CONSTRUCTION



GENERAL CARGO



RECYCLING

# ROTATOR FHR 6FF2R

**STATIC LOAD**  
60 kN

**DYNAMIC LOAD**  
30 kN

**TORQUE at 25MPa**  
1850 Nm

**OILFLOW**  
25 l/min

**WEIGHT**  
45 kg



**DOUBLE BEARING**

Grapple open

G3/8"  
Max 250 bar

Rotate left/right

G3/8"  
Max 250 bar

Rotator with two bearings to withstand compression and stretching forces

Grapple open

G3/8"

Rotator frame  $\varnothing 193$   
for fitting plate  $\varnothing 144$   
M12(10x)

Grapple close

G3/8"  
Max 300 bar

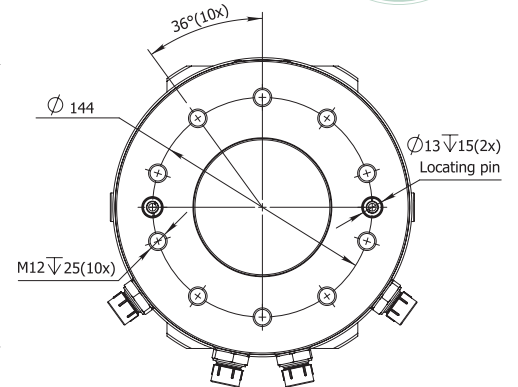
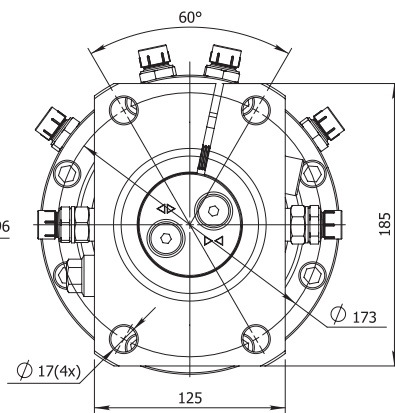
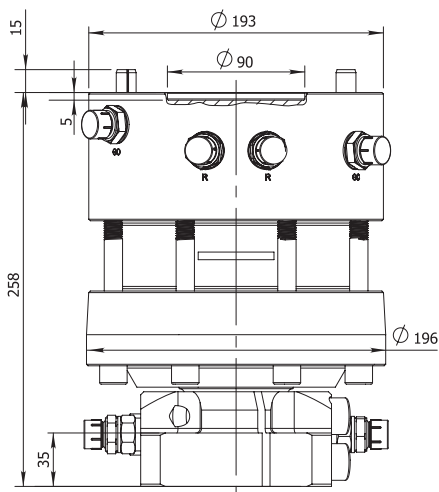
Rotator designed for intensive professional use and extended long lifetime

Grapple close

G3/8"

Robust and shock resistant steel flange for fitting the grapple in standard pattern

Optional open/close channels



FORESTRY



AGRICULTURE



CONSTRUCTION



GENERAL CARGO



RECYCLING



# FHR 6FF2X ROTATOR

**STATIC LOAD**



**60 kN**



**DOUBLE BEARING**



**FORGED STEEL**

Rotator frame  
Ø193 for fitting  
plate Ø144 M12(10x)

**DYNAMIC LOAD**



**30 kN**

Grapple open  
G3/8"  
Max 250 bar

**TORQUE at 25MPa**



**1850 Nm**

Rotate left/right  
G3/8"  
Max 250 bar

**OILFLOW**



**25 l/min**

Rotator with two bearings to withstand compression and stretching forces

**WEIGHT**



**46 kg**

Grapple open  
G1/2"

Grapple close  
G1/2"

Robust and shock resistant steel flange for fitting the grapple in standard pattern with 6xM16 bolts


Optional open/close channels

Rotator designed for intensive professional use and extended long lifetime

- 

FORESTRY
- 

AGRICULTURE
- 

CONSTRUCTION
- 

GENERAL CARGO
- 

RECYCLING

46 

# ROTATOR FHR 6FF4X

**STATIC LOAD**  
60 kN

**DYNAMIC LOAD**  
30 kN

**TORQUE at 25MPa**  
1850 Nm

**OILFLOW**  
25 l/min

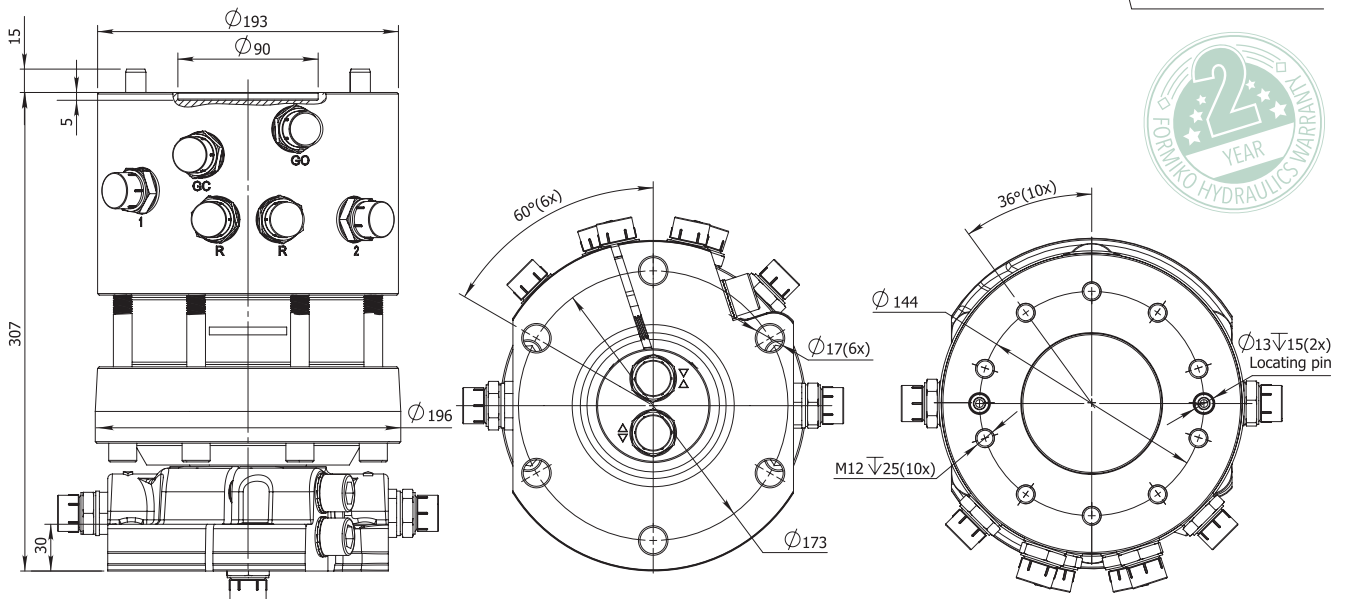
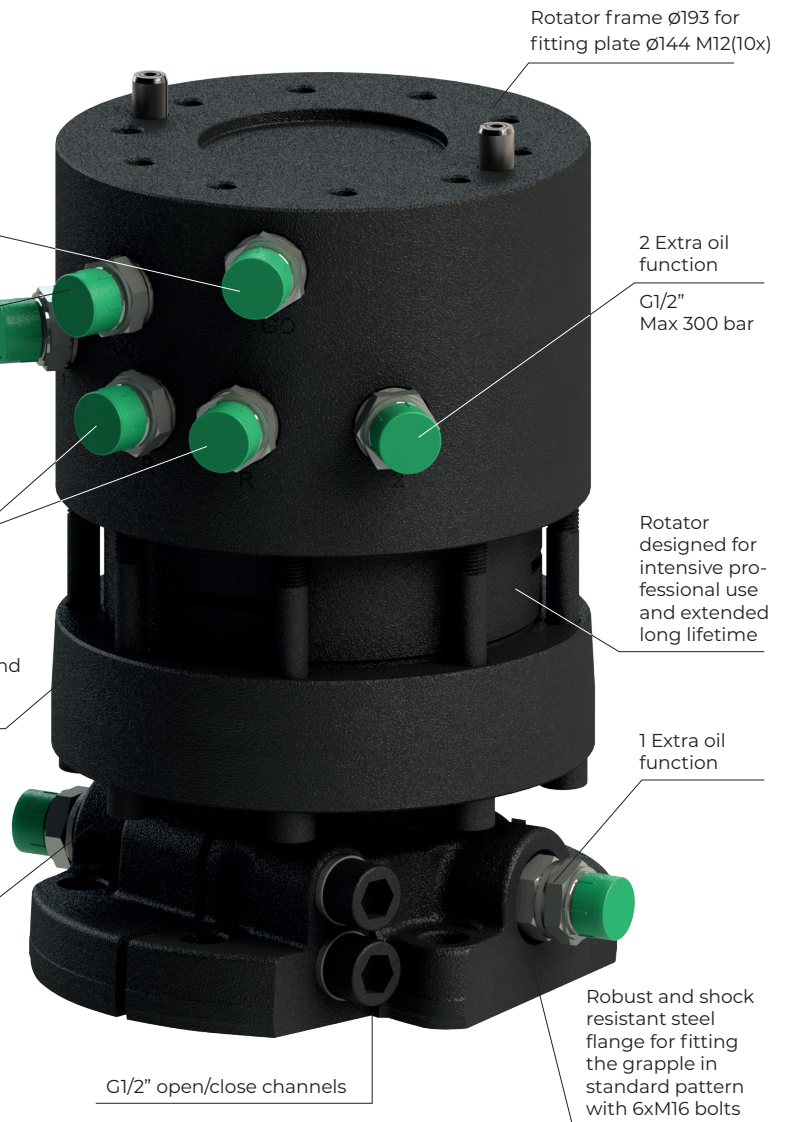
**WEIGHT**  
57 kg

- DOUBLE BEARING**
- FORGED STEEL**

- Grapple open  
G1/2" Max 250 bar
- Grapple close  
G1/2" Max 300 bar
- 1 Extra oil function  
G1/2" Max 300 bar
- Rotate left/right  
G1/2" Max 250 bar

Rotator with two bearings to withstand compression and stretching forces

2 Extra oil function



FORESTRY

AGRICULTURE

CONSTRUCTION

GENERAL CARGO

RECYCLING

# FHR 10FD1 ROTATOR

**STATIC LOAD**  
100 kN

**DYNAMIC LOAD**  
50 kN

**TORQUE at 25MPa**  
2800 Nm

**OILFLOW**  
30 l/min

**WEIGHT**  
63 kg

-  **DOUBLE BEARING**
-  **FORGED STEEL**

Grapple open  
G1/2" Max 250 bar

Rotate left/right  
G1/2" Max 250 bar

Rotator with two bearings to withstand compression and stretching forces

Grapple open  
G1/2"

Rotator frame L80 ø35

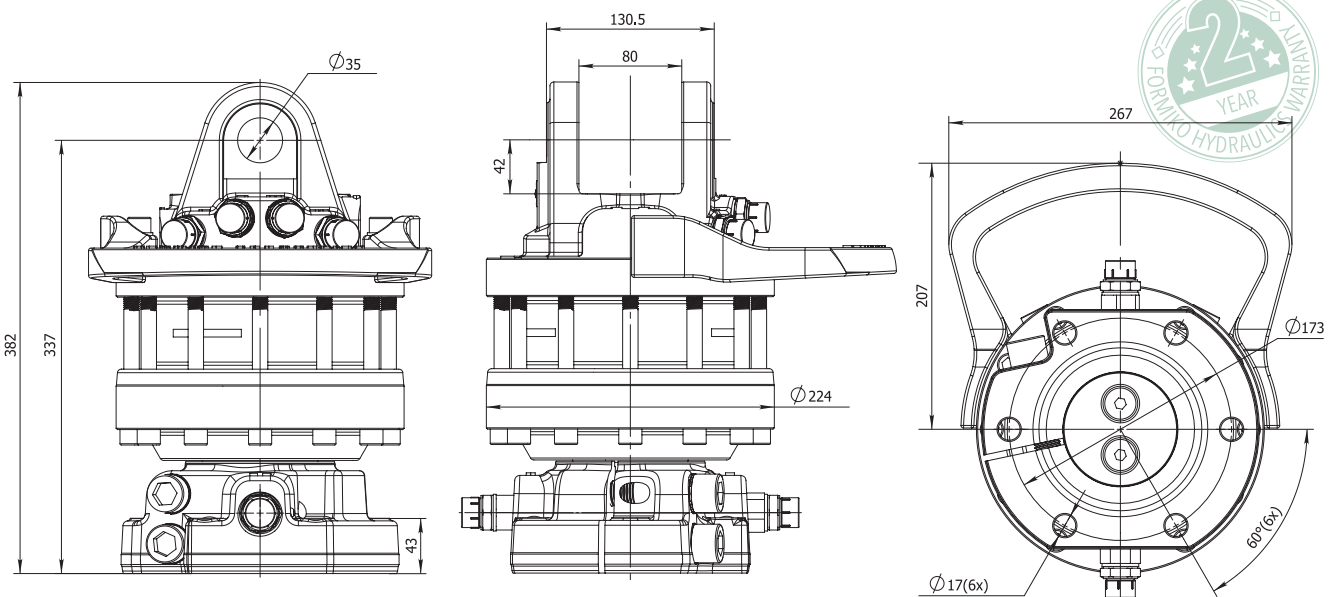
Grapple close  
G1/2" Max 300 bar

Rotator designed for intensive professional use and extended long lifetime

Grapple close  
G1/2"

Robust and shock resistant steel flange for fitting the grapple in standard pattern with 6xM16 bolts

Optional open/close channels



FORESTRY



AGRICULTURE



CONSTRUCTION



GENERAL CARGO



RECYCLING



# ROTATOR FHR 10FD1H

**STATIC LOAD**  
100 kN

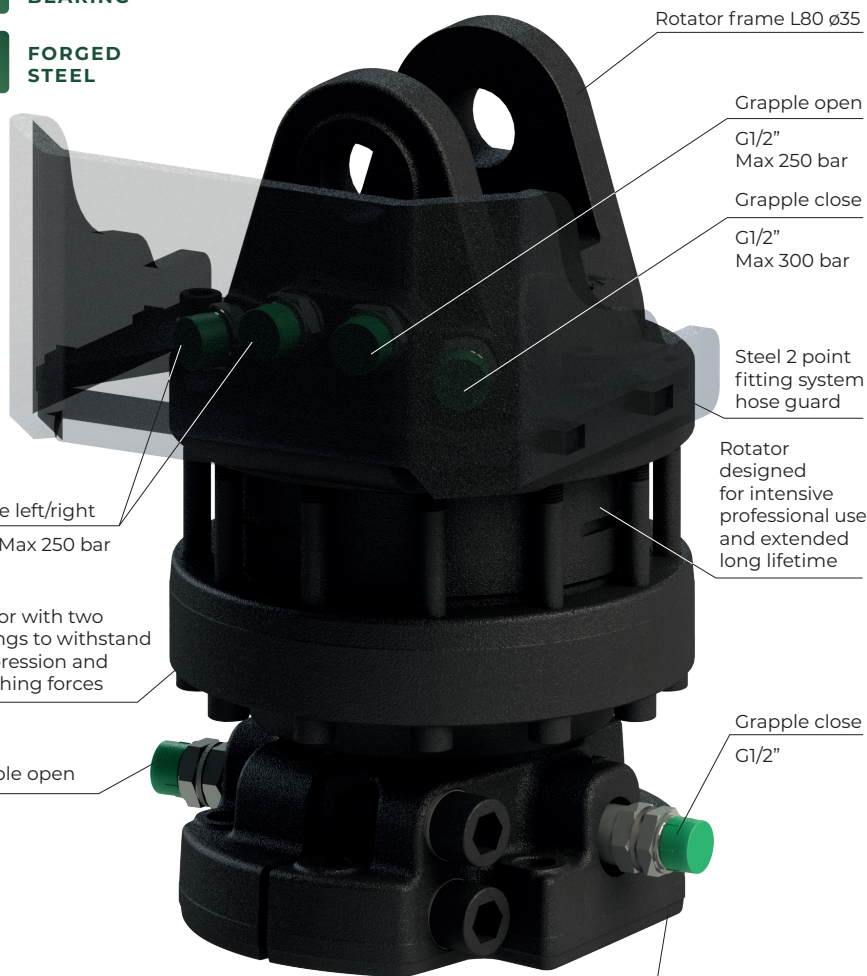
**DYNAMIC LOAD**  
50 kN

**TORQUE at 25MPa**  
2800 Nm

**OILFLOW**  
30 l/min

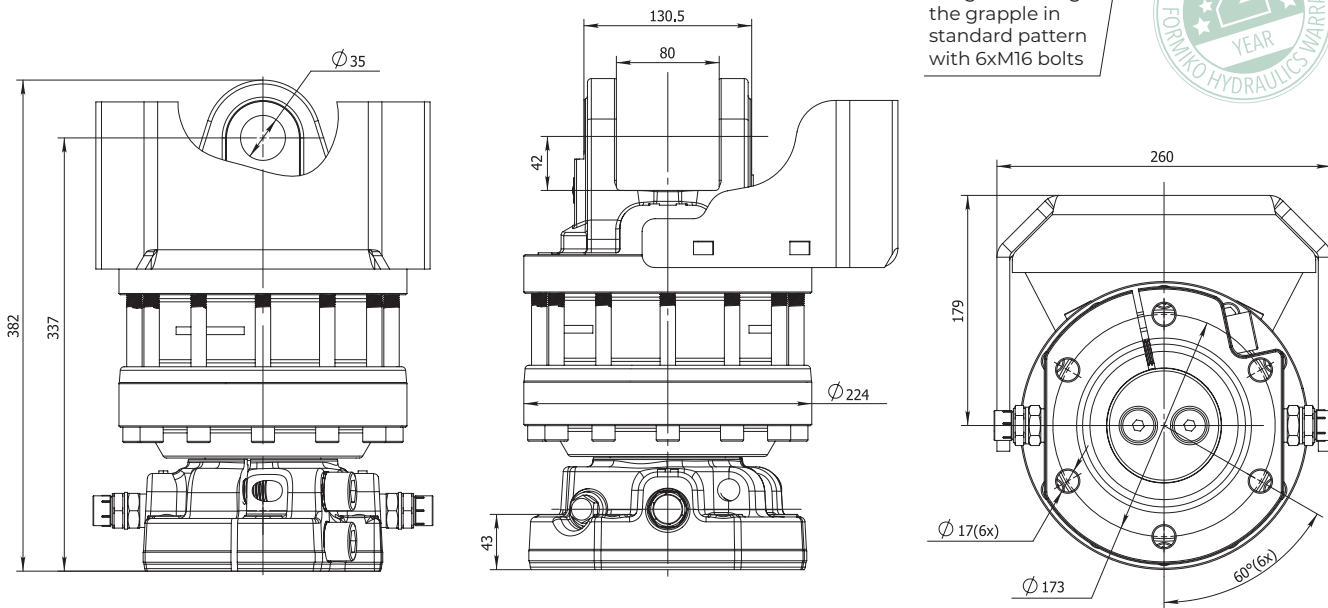
**WEIGHT**  
66 kg

-  **DOUBLE BEARING**
-  **FORGED STEEL**



Optional open/close channels

Robust and shock resistant steel flange for fitting the grapple in standard pattern with 6xM16 bolts



 FORESTRY
  AGRICULTURE
  CONSTRUCTION
  GENERAL CARGO
  RECYCLING

# FHR 10FD2 ROTATOR

STATIC LOAD



100 kN

DYNAMIC LOAD



50 kN

TORQUE at 25MPa



2800 Nm

OILFLOW



30 l/min

WEIGHT



64 kg



OPPOSITE HOSE CONNECTION



DOUBLE BEARING



FORGED STEEL

Grapple open  
G1/2"  
Max 250 bar

Grapple close  
G1/2"  
Max 300 bar

Rotator designed for intensive professional use and extended long lifetime

Grapple close  
G1/2"

Optional open/close channels

Robust and shock resistant steel flange for fitting the grapple in standard pattern with 6xM16 bolts

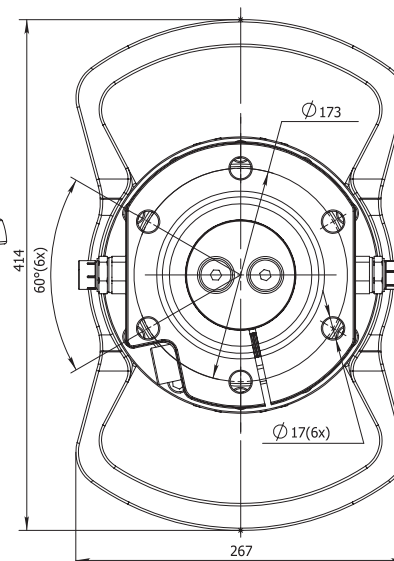
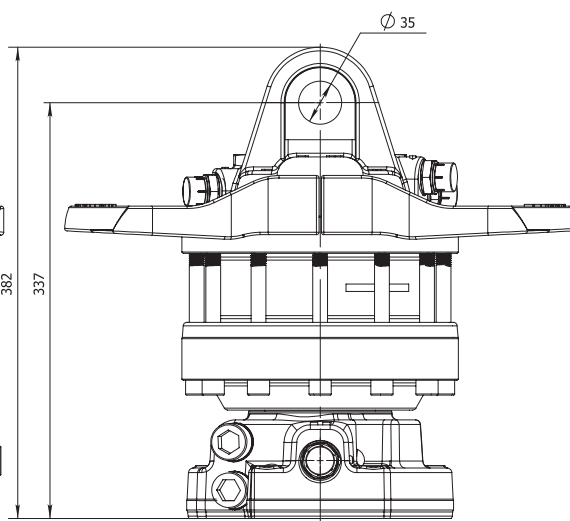
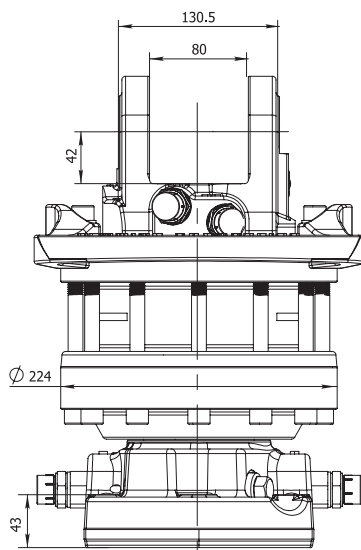
Rotator frame L80 ø35

Rotate left/right

G1/2" Max 250 bar

Rotator with two bearings to withstand compression and stretching forces

Grapple open  
G1/2"



FORESTRY



AGRICULTURE



CONSTRUCTION



GENERAL CARGO



RECYCLING

# ROTATOR **FHR 16FD1**

STATIC LOAD



DYNAMIC LOAD



TORQUE at 25MPa



OILFLOW



WEIGHT

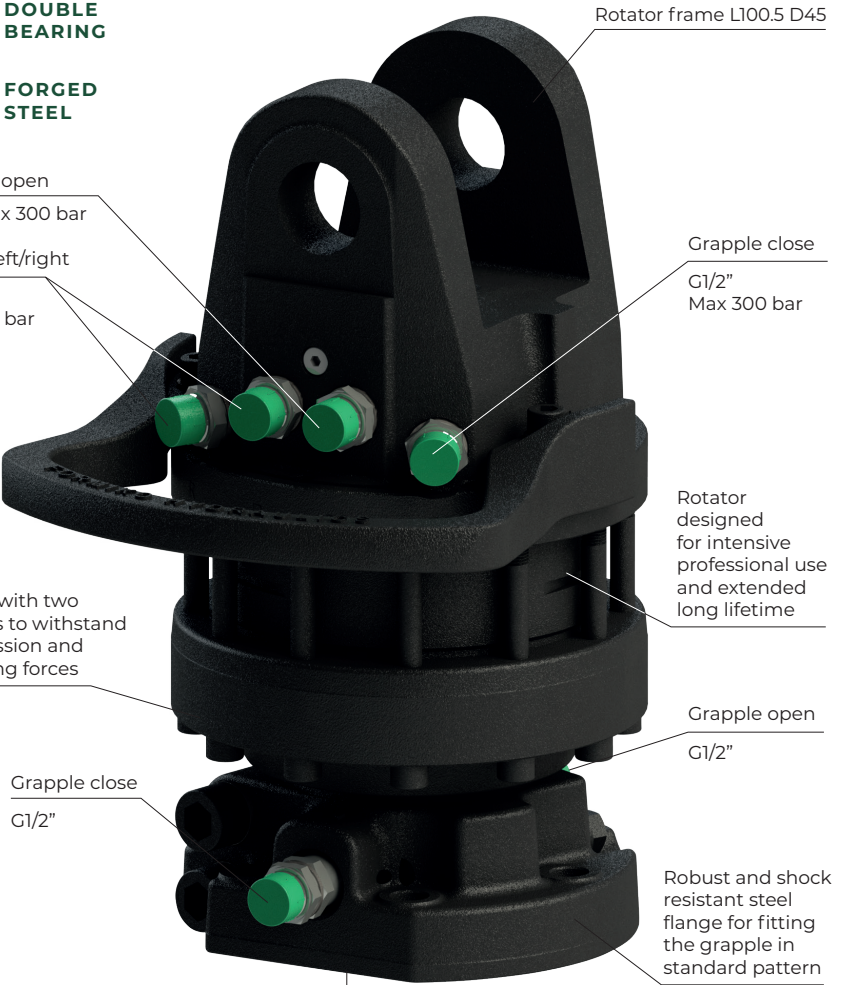


-  **DOUBLE BEARING**
-  **FORGED STEEL**

Grapple open  
G1/2" Max 300 bar

Rotate left/right  
G1/2"  
Max 250 bar

Rotator with two bearings to withstand compression and stretching forces



Rotator frame L100.5 D45

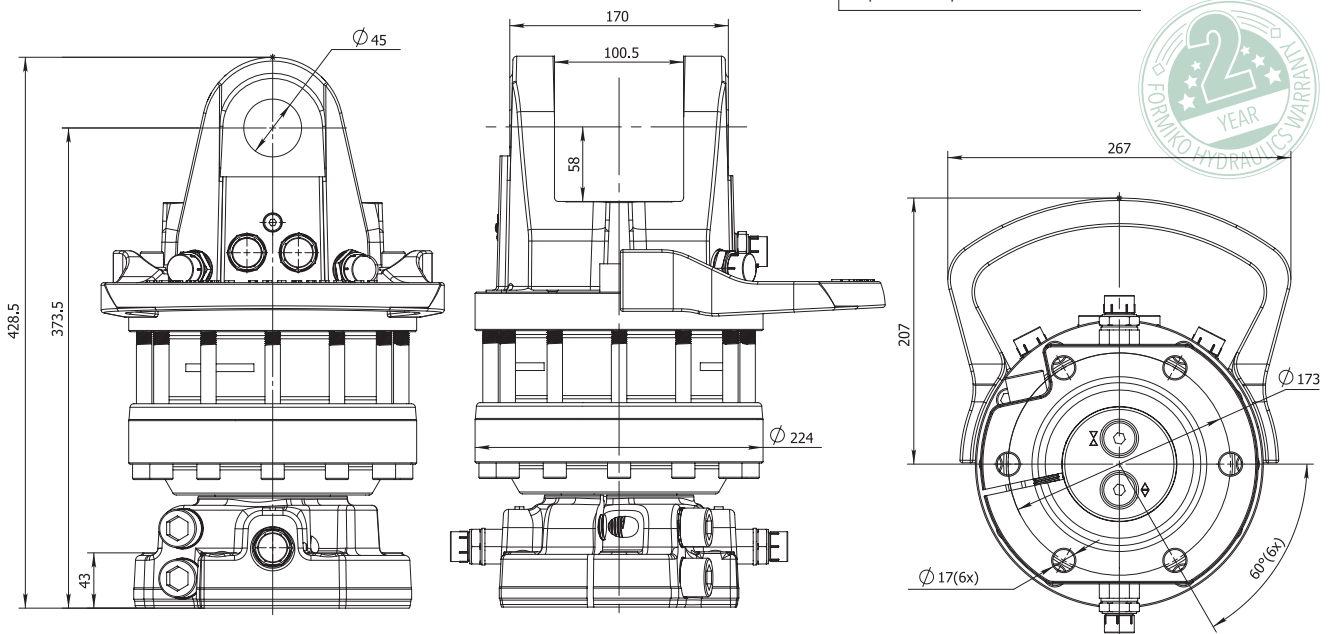
Grapple close  
G1/2"  
Max 300 bar

Rotator designed for intensive professional use and extended long lifetime

Grapple open  
G1/2"

Robust and shock resistant steel flange for fitting the grapple in standard pattern

Optional open/close channels



- FORESTRY 
- AGRICULTURE 
- CONSTRUCTION 
- GENERAL CARGO 
- RECYCLING 

# FHR 16FD1H ROTATOR

STATIC LOAD



160 kN

DYNAMIC LOAD



80 kN

TORQUE at 25MPa



3400 Nm

OILFLOW



40 l/min

WEIGHT



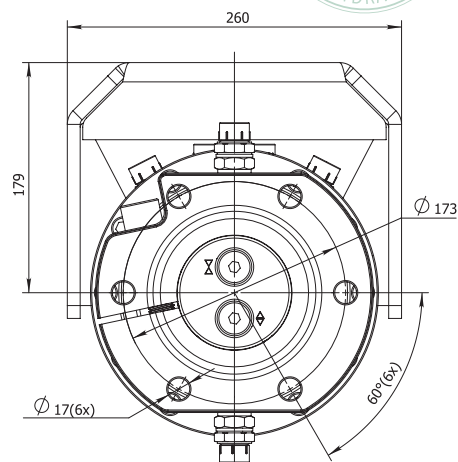
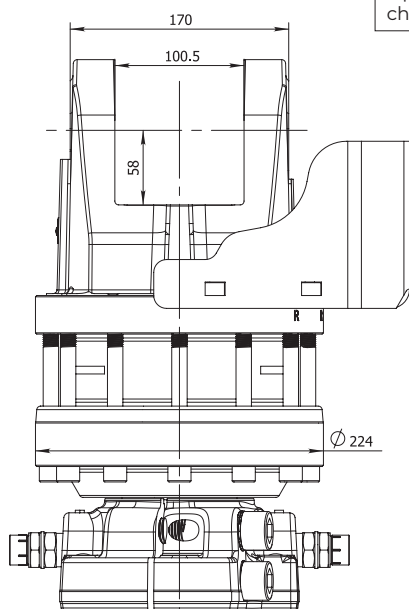
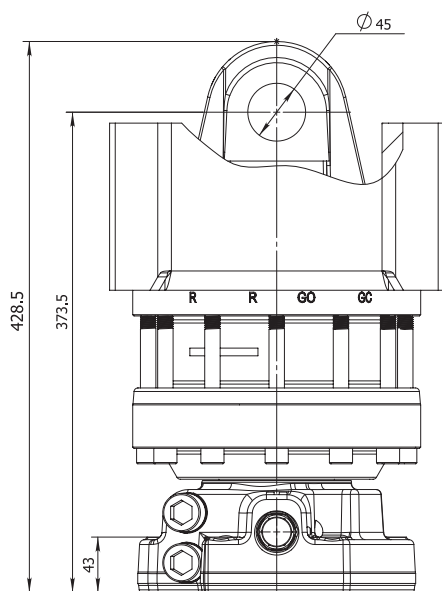
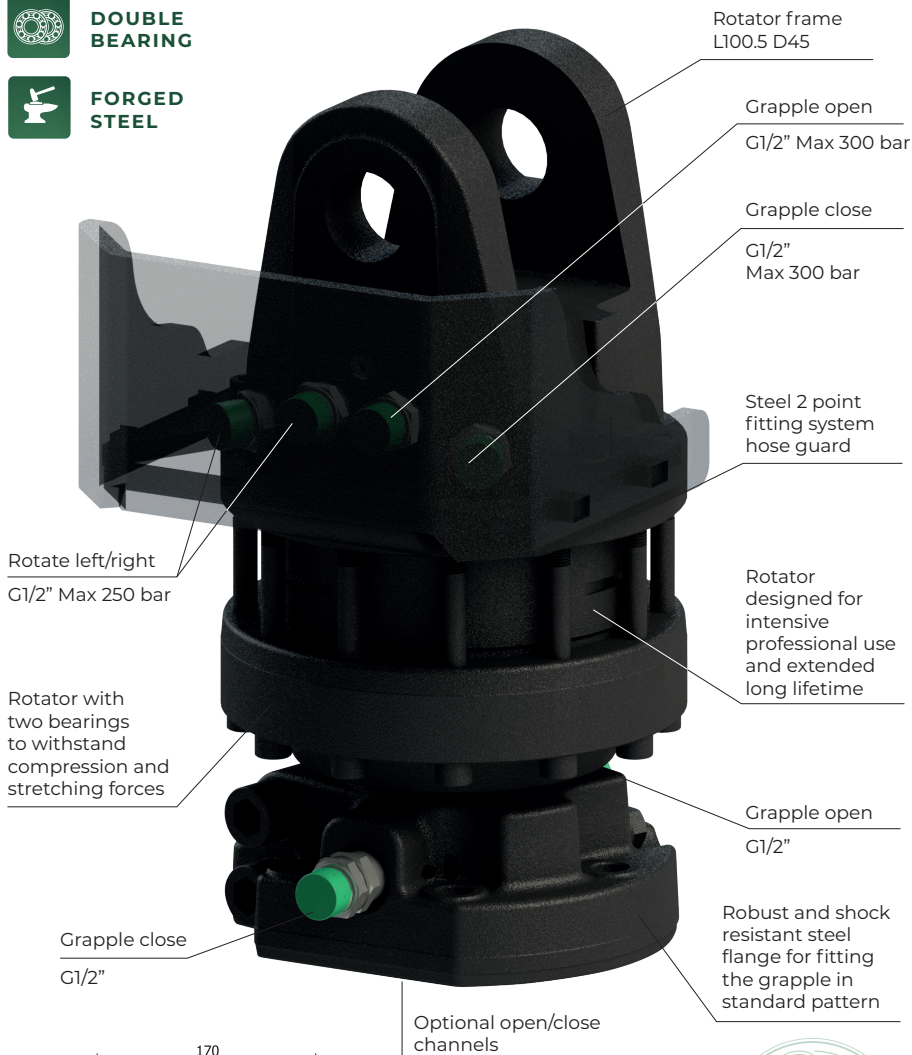
76 kg



DOUBLE BEARING



FORGED STEEL



FORESTRY



AGRICULTURE



CONSTRUCTION



GENERAL CARGO



RECYCLING

# ROTATOR FHR 16FD1-203

STATIC LOAD



DYNAMIC LOAD



TORQUE at 25MPa



OILFLOW



WEIGHT

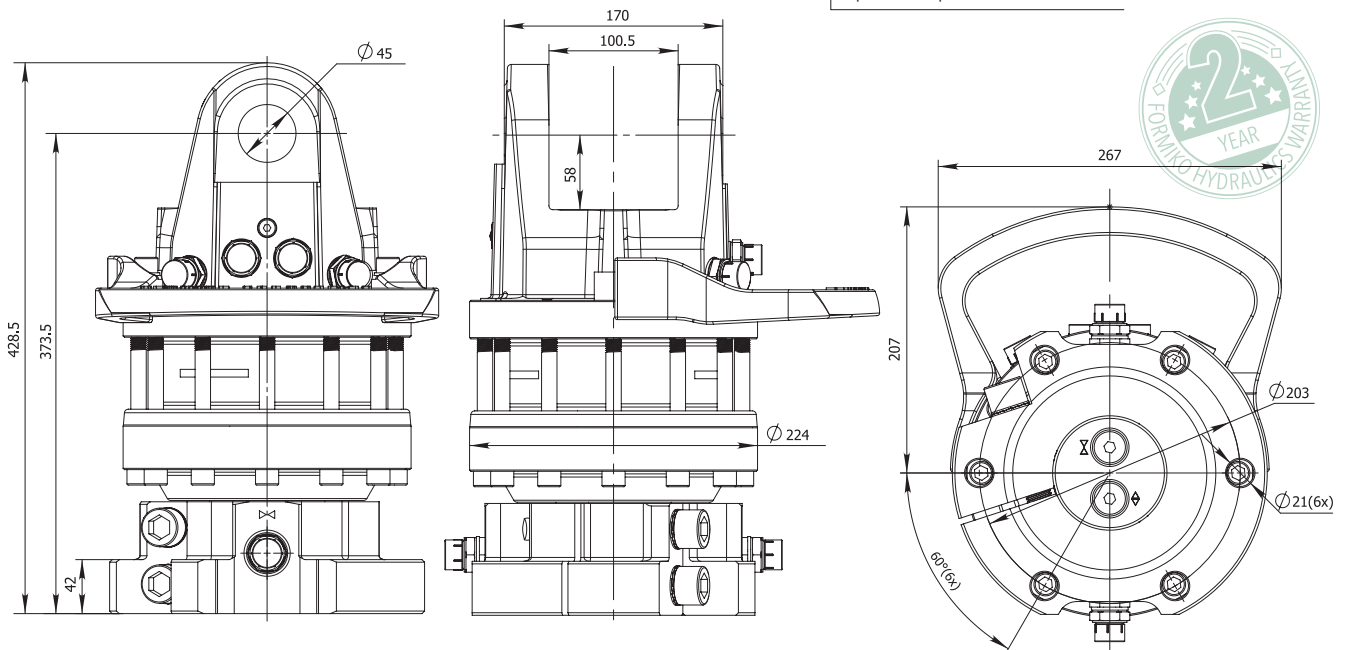
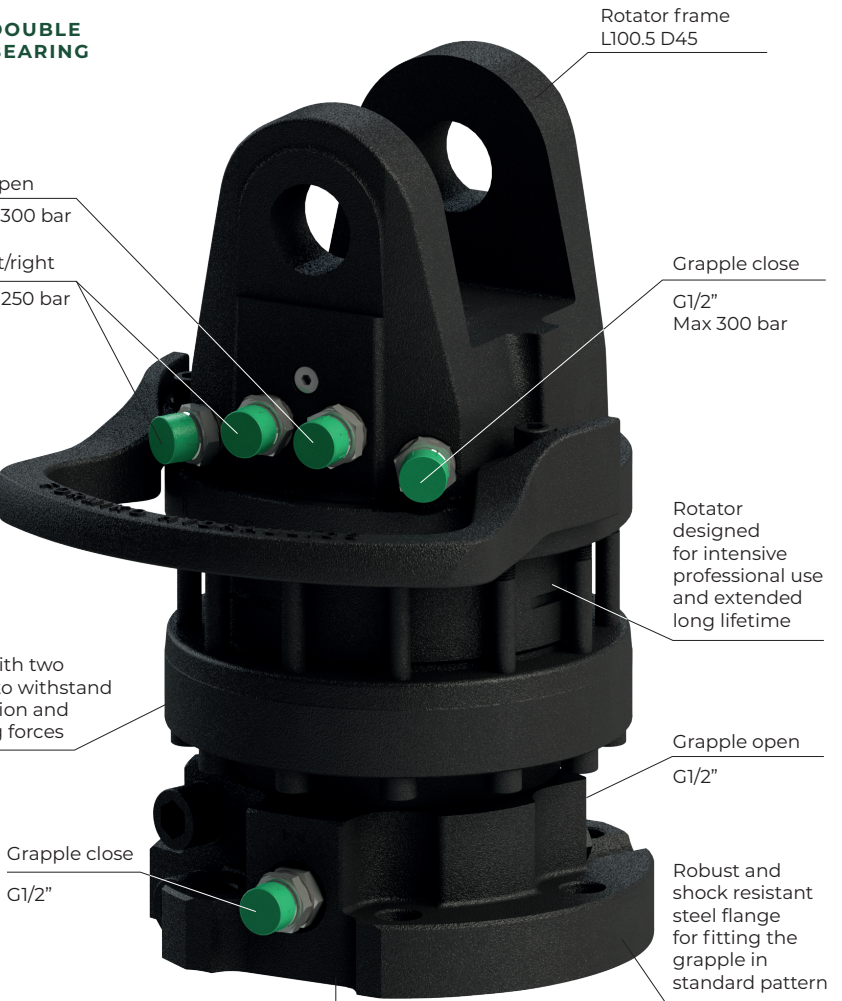


**DOUBLE BEARING**

Grapple open  
G1/2" Max 300 bar

Rotate left/right  
G1/2" Max 250 bar

Rotator with two bearings to withstand compression and stretching forces



FORESTRY



AGRICULTURE



CONSTRUCTION



GENERAL CARGO



RECYCLING



# FHR 16FD1-203H ROTATOR

**STATIC LOAD**  
160 kN

**DYNAMIC LOAD**  
80 kN

**TORQUE at 25MPa**  
3400 Nm

**OILFLOW**  
40 l/min

**WEIGHT**  
80 kg



**DOUBLE BEARING**

Grapple open  
G1/2" Max 300 bar  
Rotate left/right  
G1/2" Max 250 bar

Rotator with two bearings to withstand compression and stretching forces

Grapple close  
G1/2"

Optional open/close channels

Rotator frame L100.5 D45

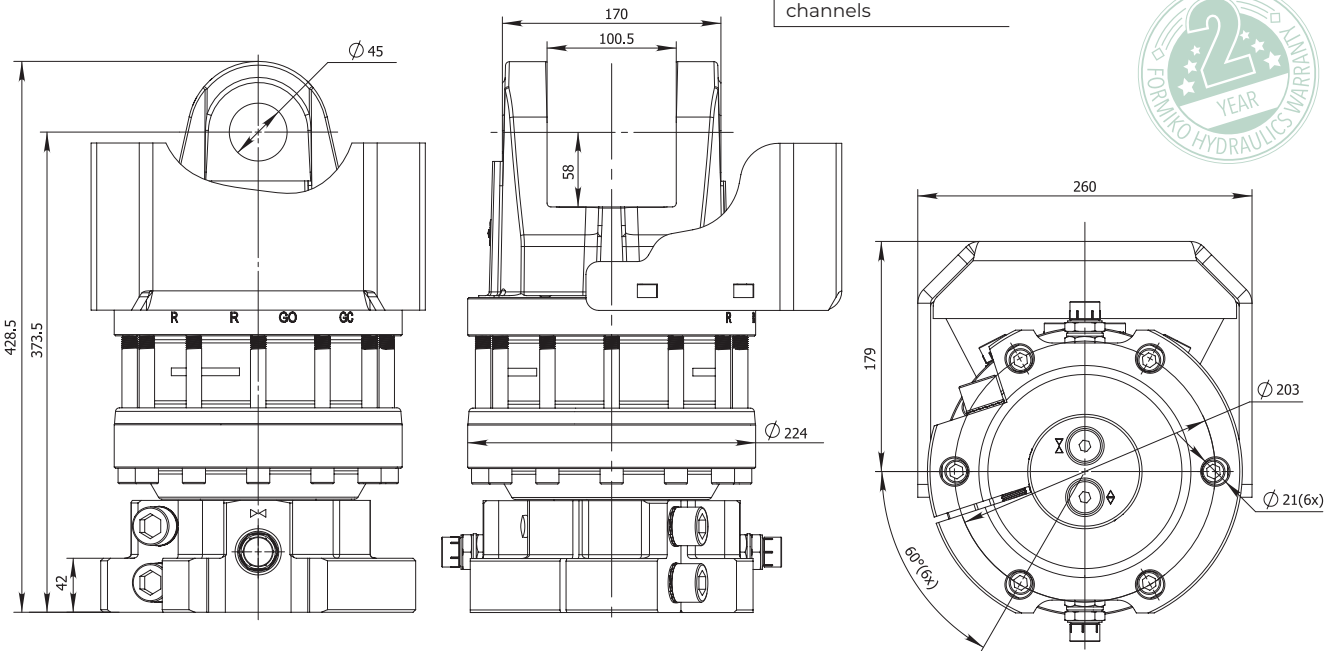
Grapple close  
G1/2" Max 300 bar

Steel 2 point fitting system hose guard

Rotator designed for intensive professional use and extended long lifetime

Grapple open  
G1/2"

Robust and shock resistant steel flange for fitting the grapple in standard pattern



FORESTRY



AGRICULTURE



CONSTRUCTION



GENERAL CARGO



RECYCLING

# ROTATOR FHR 16FD1-A8

- 

**STATIC LOAD**  
160 kN
- 

**DYNAMIC LOAD**  
80 kN
- 

**TORQUE at 25MPa**  
3400 Nm
- 

**OILFLOW**  
40 l/min
- 

**WEIGHT**  
75 kg

## DOUBLE BEARING

Grapple open  
G1/2" Max 300 bar

Rotate left/right  
G1/2" Max 250 bar

Rotator frame  
L103.2 D50.8

Grapple close  
G1/2" Max 300 bar

Rotator designed for intensive professional use and extended long lifetime

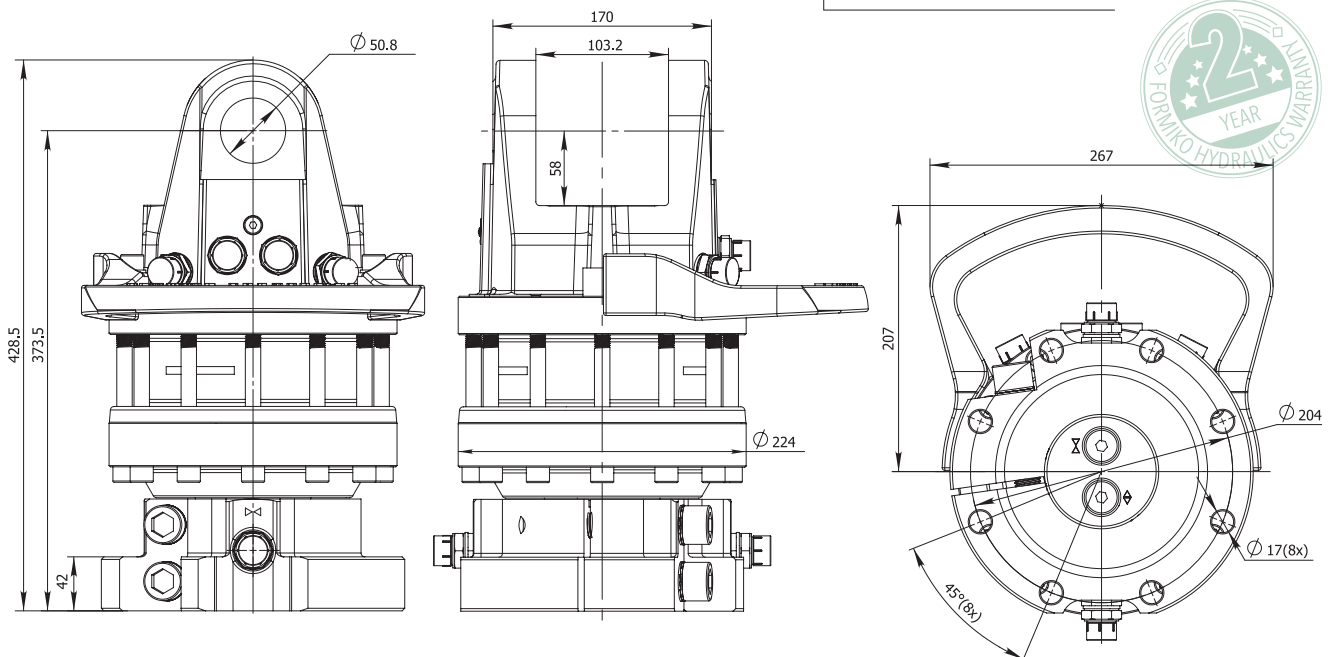
Rotator with two bearings to withstand compression and stretching forces

Grapple open  
G1/2"

Robust and shock resistant steel flange for fitting the grapple in standard pattern

Grapple close  
G1/2"

Optional open/close channels



- FORESTRY 
- AGRICULTURE 
- CONSTRUCTION 
- GENERAL CARGO 
- RECYCLING 

# FHR 16FD1-A8H ROTATOR

**STATIC LOAD**  
160 kN

**DYNAMIC LOAD**  
80 kN

**TORQUE at 25MPa**  
3400 Nm

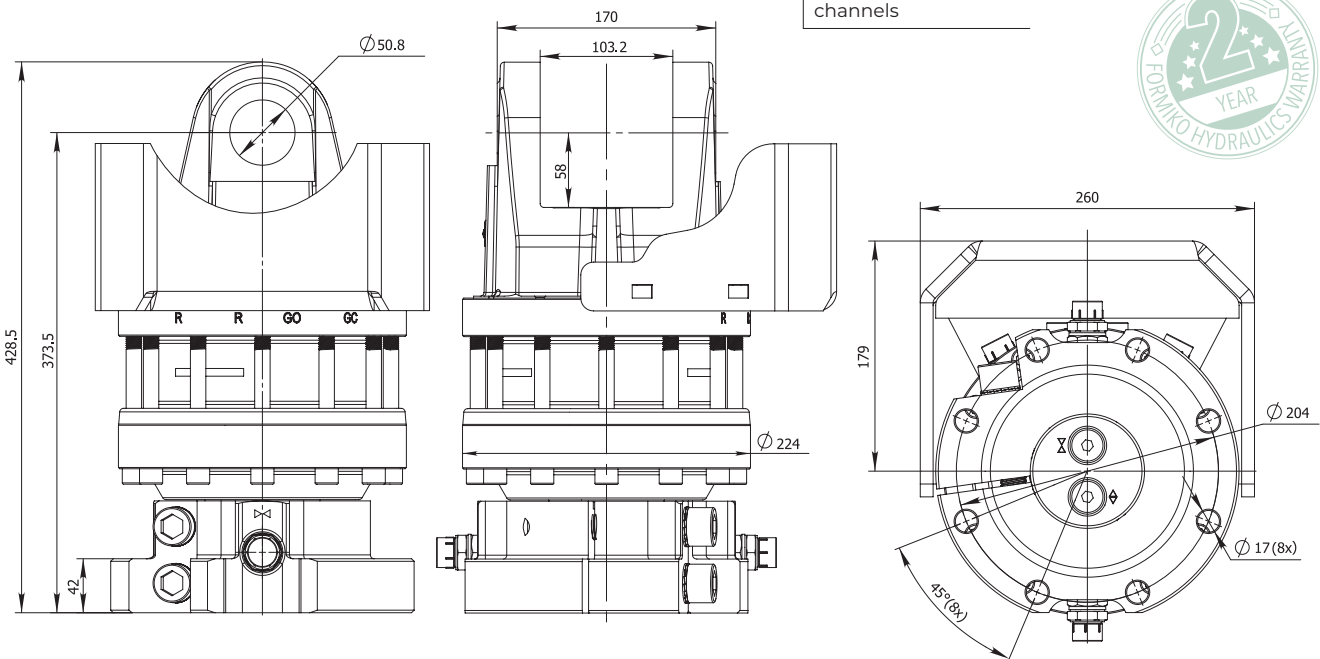
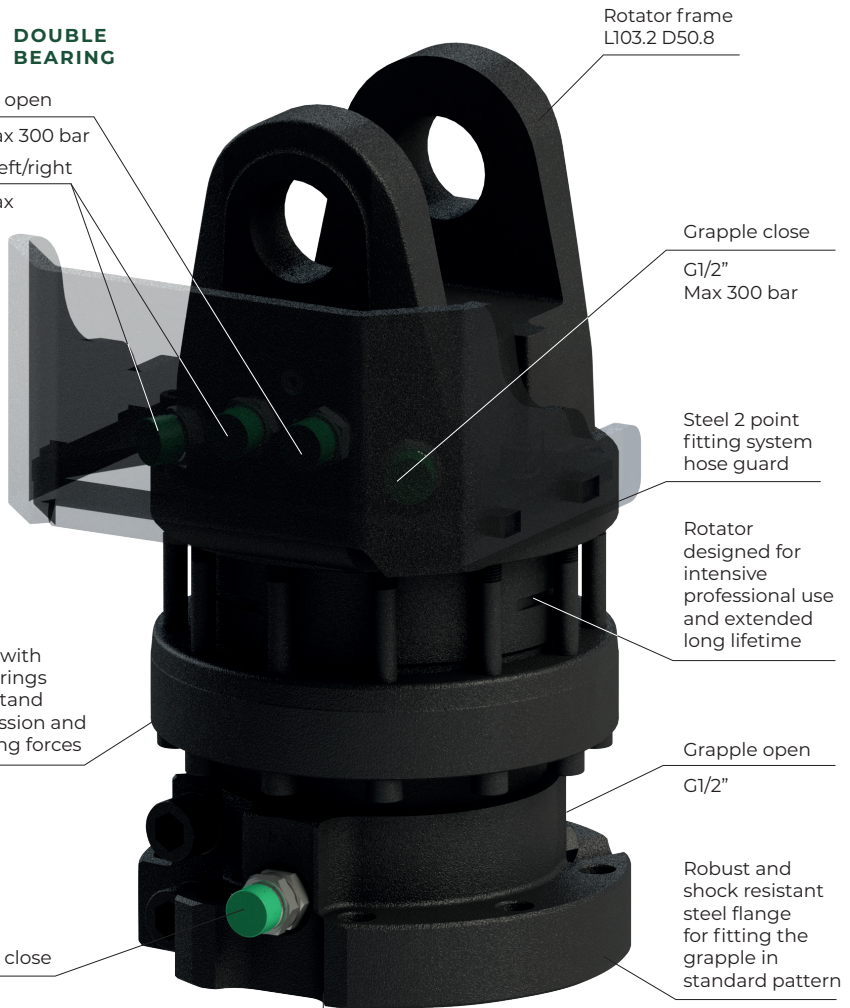
**OILFLOW**  
40 l/min

**WEIGHT**  
79 kg



**DOUBLE BEARING**

Grapple open  
G1/2" Max 300 bar  
Rotate left/right  
G1/2" Max 250 bar



FORESTRY



AGRICULTURE



CONSTRUCTION



GENERAL CARGO



RECYCLING



# HARVESTER ROTATOR **FHH 16**

STATIC LOAD



DYNAMIC LOAD



TORQUE at 25MPa



OILFLOW



WEIGHT



Rotator frame L100.5 D45

**DEVELOPED FOR HARVESTER HEADS**

**THREE OPTIONS TO CONNECT HOSES:**

- UPPER LINK
- FLANGE FACE
- FLANGE SIDE

Rotate left/right

G1/2" Max  
250 bar

Rotator with increased torque for heavy duty applications

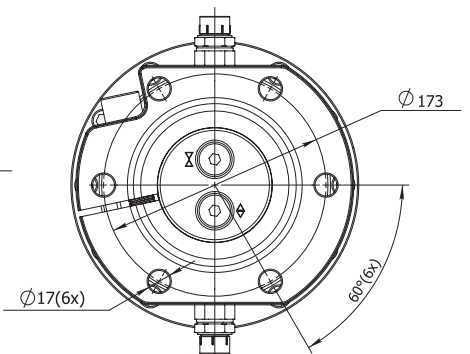
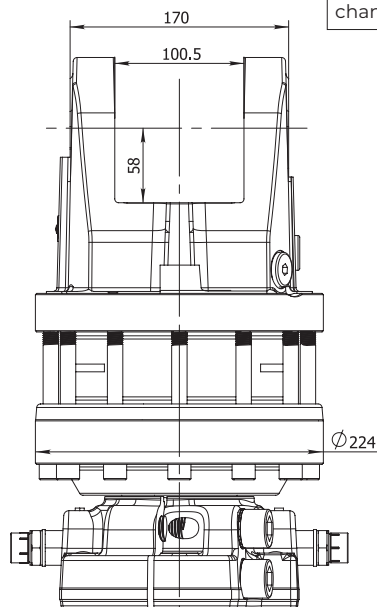
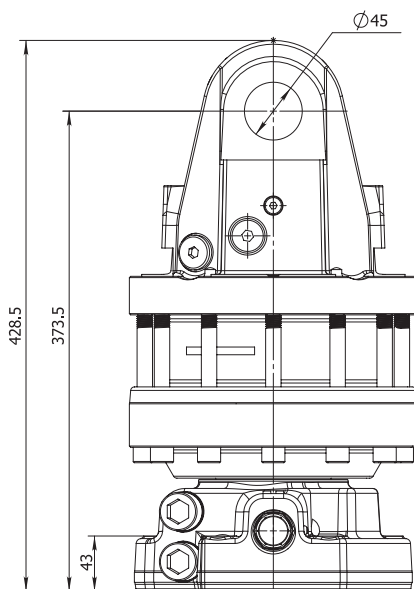
Robust and shock resistant steel flange for fitting the grapple in standard pattern with 6xM16 bolts

Rotator with two bearings to withstand compression and stretching forces

Rotate left/right  
G1/2"

Rotate left/right  
G1/2"

Rotate left/right channels



FORESTRY



AGRICULTURE



CONSTRUCTION



GENERAL CARGO



RECYCLING



# FHL 01 KNUCKLE JOINT LINK

STATIC LOAD



55 kN

WEIGHT



4.5 kg

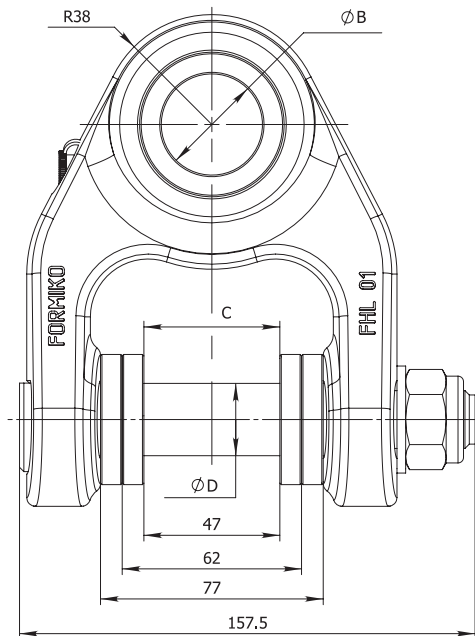
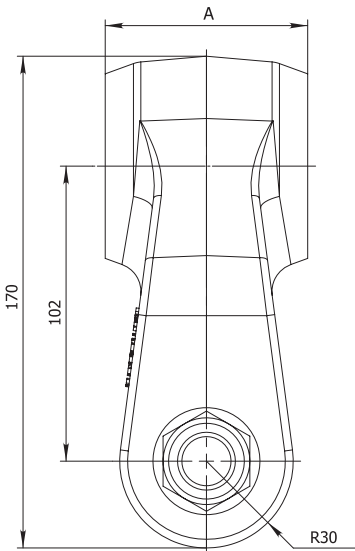


FORGED STEEL



## FHL01- A /B - C /D

A	B	C	D
80	45	45	25
70	40	60	30
60	35	73	
	30		
	25		



The body of FHL01 knuckle joint link is made from shock resistant FORGED STEEL to improve reliability and equipped with bronze bushings to extend lifetime.

Pin locking nut has to be tightened with a torque of 120 Nm

Fill grease through grease nipples until it will appear to the external surfaces.

Greasing must be repeated after every 8 working hours of the link.



FORESTRY



AGRICULTURE



CONSTRUCTION



GENERAL CARGO



RECYCLING

STATIC LOAD



55 kN

WEIGHT



6 kg

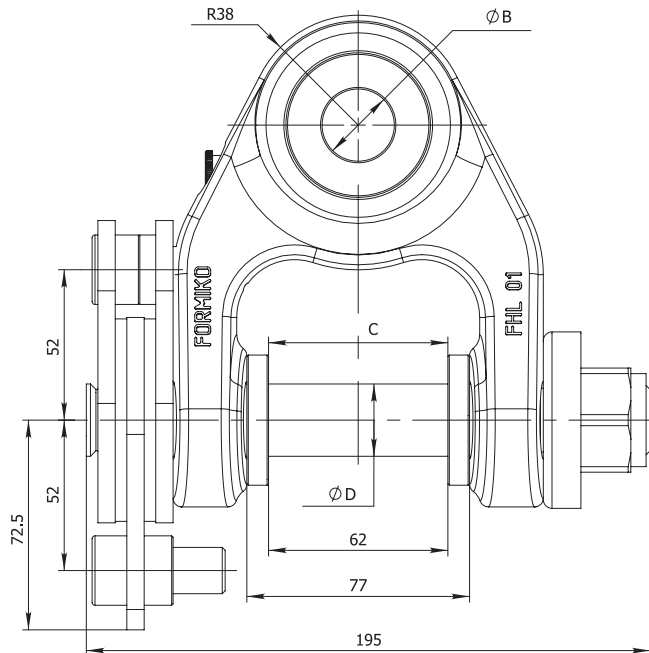
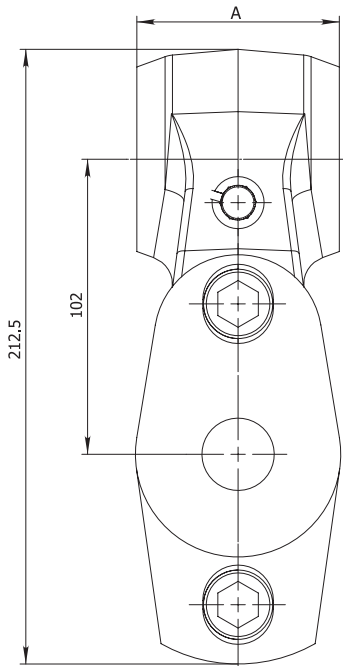


FORGED STEEL



### FHL01B-A/B-C/D

A	B	C	D
80	45	60	30
70	40	73	25
60	35		
	30		
	25		



The body of FHL01B knuckle joint link is made from shock resistant FORGED STEEL to improve reliability and equipped with bronze bushings to extend lifetime.

Pin locking nut has to be tightened with a torque of 60-160 Nm dependent on desired brake power.

Fill grease through grease nipples until it will appear to the external surfaces.

Greasing must be repeated after every 8 working hours of the link.

FORESTRY



AGRICULTURE



CONSTRUCTION



GENERAL CARGO



RECYCLING



# FHL 04-25

## KNUCKLE JOINT LINK

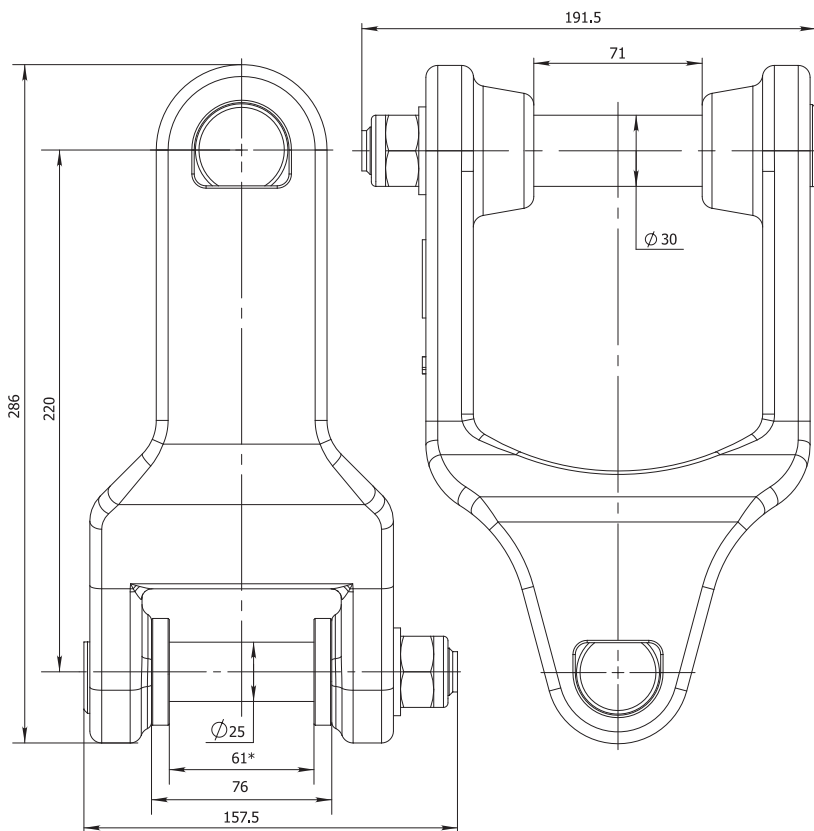
STATIC  
LOAD



WEIGHT



FORGED  
STEEL



**\*ORDERING EXAMPLE  
FOR ROTATOR WITH 60MM  
INTERFACE:**

**Link FHL 04-25** - 1 x  
**Distancers FHL 01.007-2** - 2 x

Pin locking nut has to be tightened  
with a torque of 120 Nm.



FORESTRY



AGRICULTURE



CONSTRUCTION



GENERAL CARGO



RECYCLING

KNUCKLE JOINT LINK

# FHL 04-30

STATIC  
LOAD



55 kN

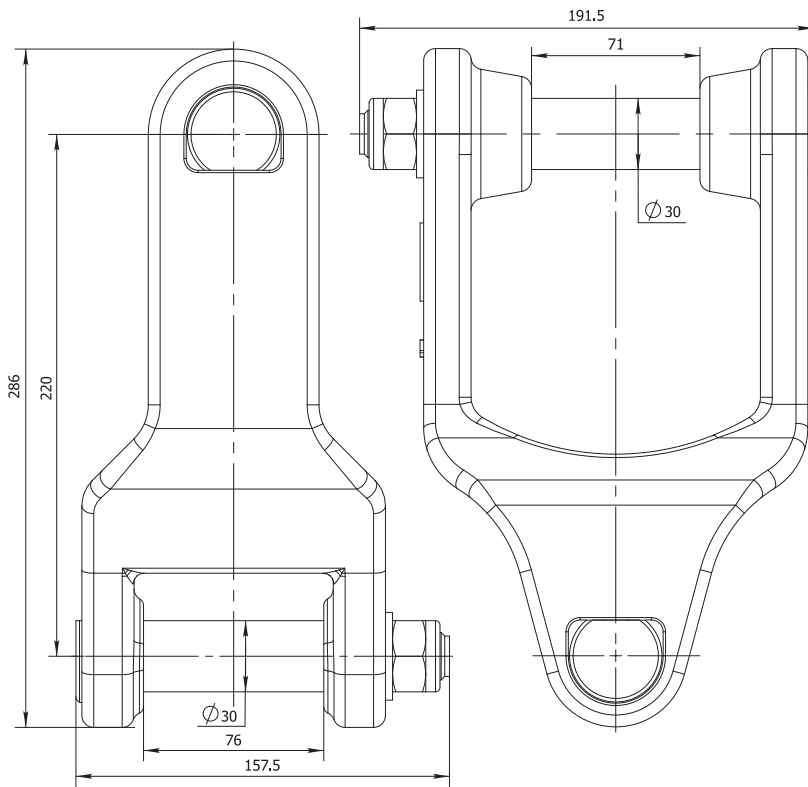
WEIGHT



11.68 kg



FORGED  
STEEL



Pin locking nut has to be tightened with a torque of 120 Nm.

FORESTRY



AGRICULTURE



CONSTRUCTION



GENERAL CARGO



RECYCLING



# FHL 04B-25

## KNUCKLE JOINT LINK

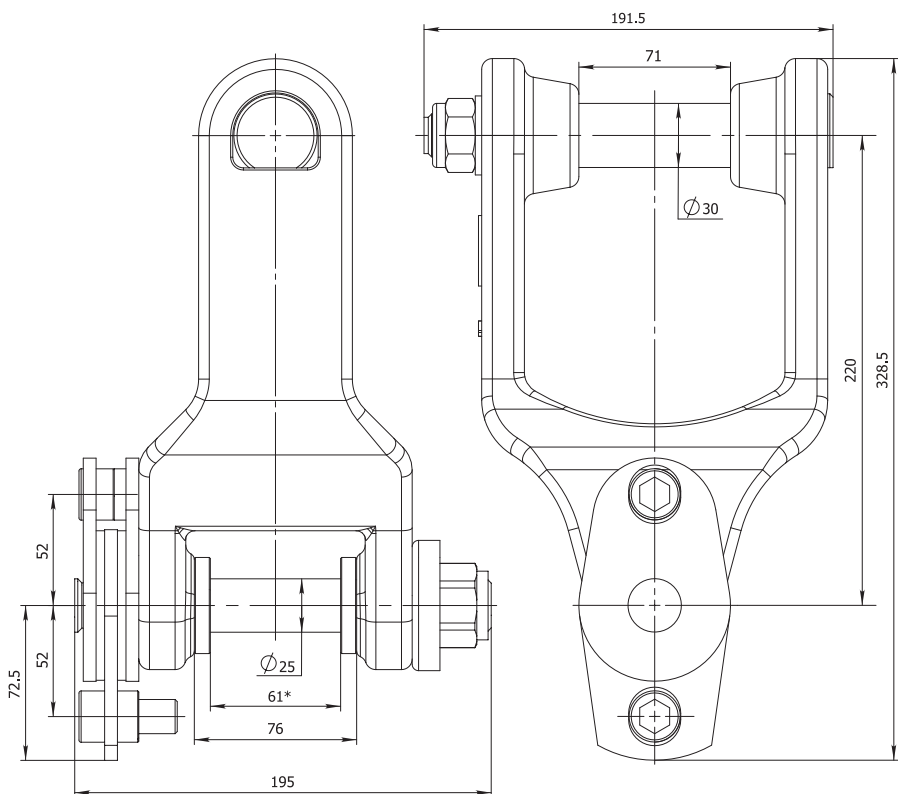
STATIC  
LOAD



WEIGHT



FORGED  
STEEL



### \*ORDERING EXAMPLE FOR ROTATOR WITH 60MM INTERFACE:

**Link 04B-25** -1 x  
**Distancers FHL 01.007-2** -2x

Upper pin locking nut has to be tightened with a torque of 120 Nm.

Lower pin locking nut has to be tightened with a torque of 60–160 Nm dependent on desired brake power.



FORESTRY



AGRICULTURE



CONSTRUCTION



GENERAL CARGO



RECYCLING

# KNUCKLE JOINT LINK **FHL 04B-30**

STATIC  
LOAD



55 kN

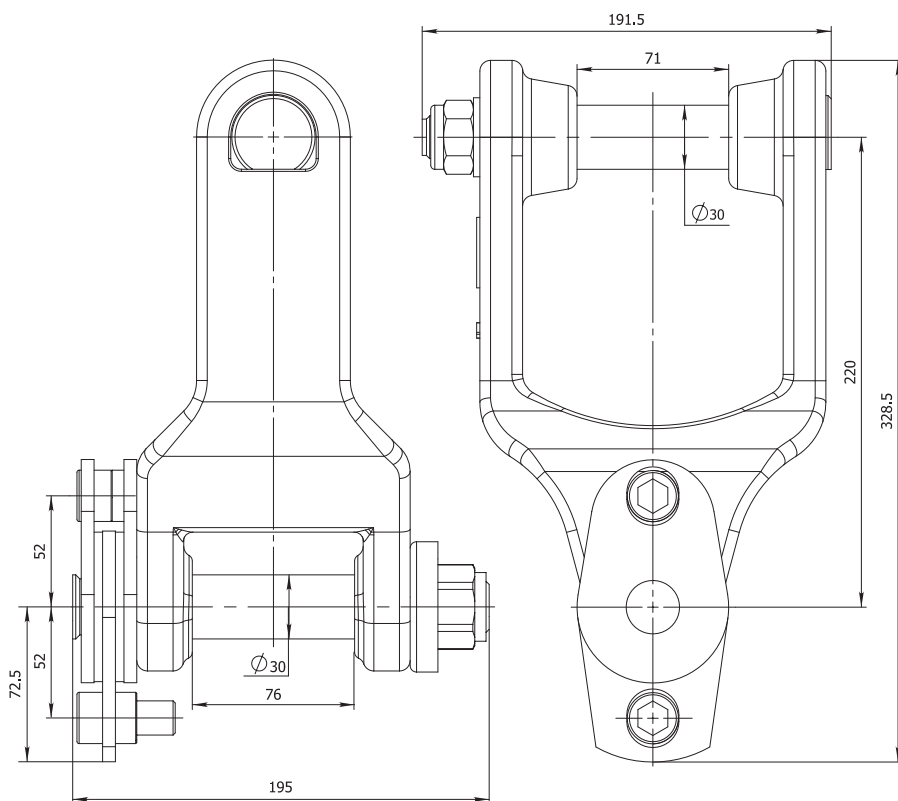
WEIGHT



12.68 kg



FORGED  
STEEL



Upper pin locking nut has to be tightened with a torque of 120 Nm.

Lower pin locking nut has to be tightened with a torque of 60–160 Nm dependent on desired brake power.

FORESTRY



AGRICULTURE



CONSTRUCTION



GENERAL CARGO



RECYCLING



# FHL 05

## KNUCKLE JOINT LINK

STATIC  
LOAD



55 kN

WEIGHT



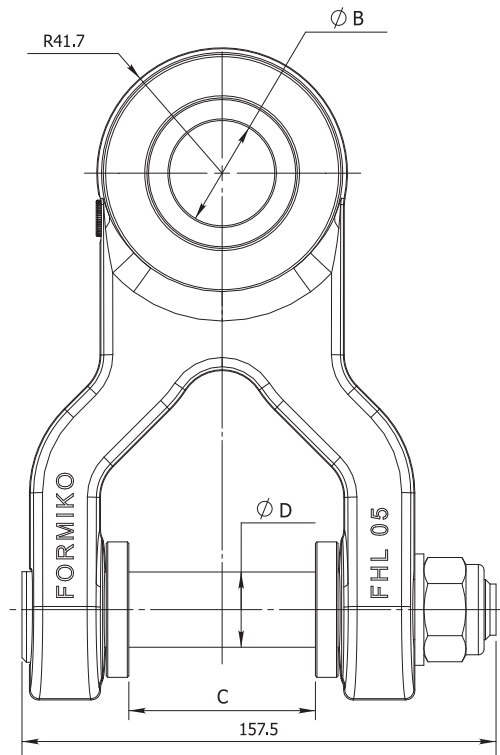
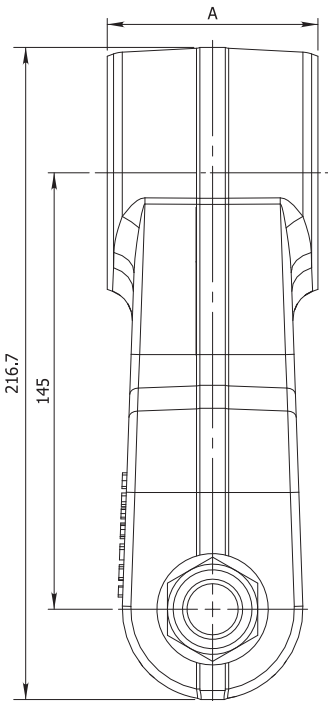
6 kg



FORGED  
STEEL



A	B	C	D
80	45	73	30
70	40	60	25
60	35		
	30		
	25		



### ORDERING EXAMPLE:

**FHL 05-AB-CD**

**(FHL 05-7030-6025)**

Pin locking nut has to be tightened with a torque of 120 Nm

Fill grease through grease nipples until it will appear to the external surfaces.

Greasing must be repeated after every 8 working hours of the link.



FORESTRY



AGRICULTURE



CONSTRUCTION



GENERAL CARGO



RECYCLING



# KNUCKLE JOINT LINK **FHL 05B**

STATIC  
LOAD



55 kN

WEIGHT



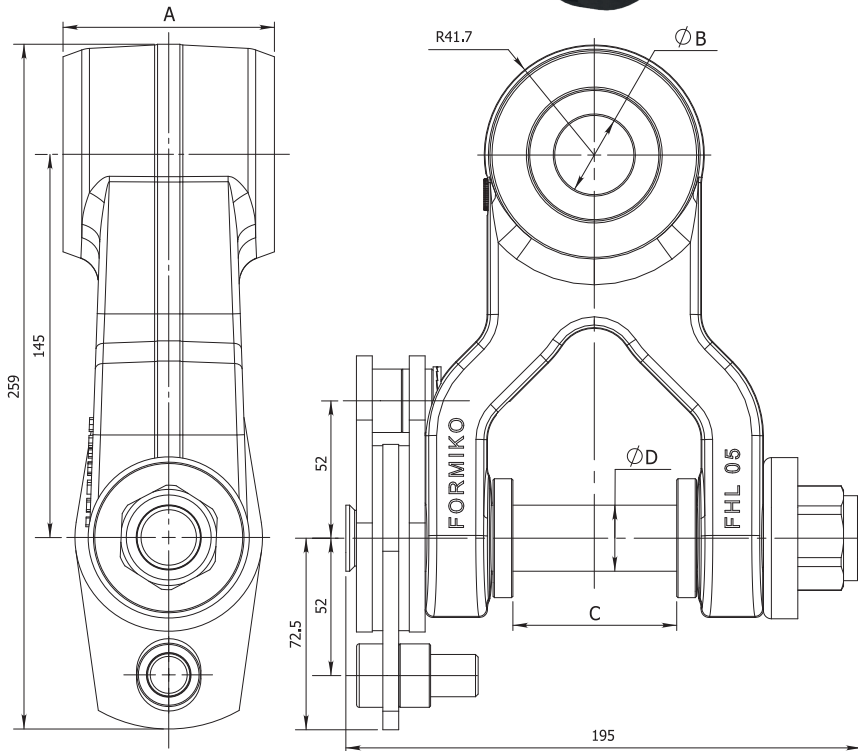
7 kg



FORGED  
STEEL



A	B	C	D
80	45	73	30
70	40	60	25
60	35		
	30		
	25		



## ORDERING EXAMPLE:

**FHL 05-AB-CD**  
**(FHL 05-7030-6025)**

Pin locking nut has to be tightened with a torque of 60–160 Nm dependent on desired brake power.

Fill grease through grease nipples until it will appear to the external surfaces.

Greasing must be repeated after every 8 working hours of the link.

FORESTRY



AGRICULTURE



CONSTRUCTION



GENERAL CARGO



RECYCLING



# FHL 02 KNUCKLE JOINT LINK

STATIC LOAD



100 kN

WEIGHT



11 kg

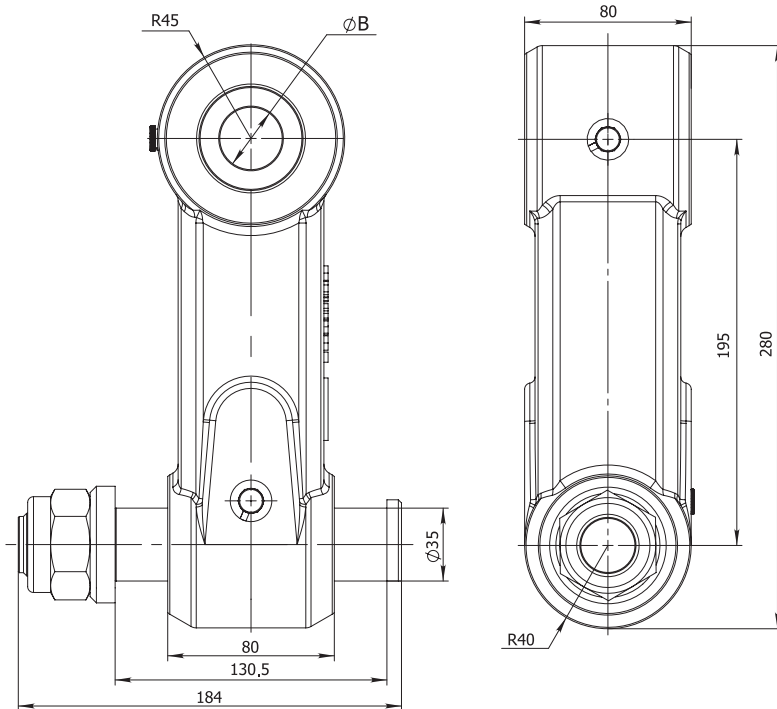


FORGED STEEL



LINK NAME    B    WEIGHT

FHL 02-45	45	11.12
FHL 02-40	40	11.29
FHL 02-35	35	11.43
FHL 02-30	30	11.55



The body of FHL02 knuckle joint link is made from shock resistant FORGED STEEL to improve reliability and equipped with bronze bushings to extend lifetime.

Pin locking nut has to be tightened with a torque of 120 Nm

Fill grease through grease nipples until it will appear to the external surfaces.

Greasing must be repeated after every 8 working hours of the link.



FORESTRY



AGRICULTURE



CONSTRUCTION



GENERAL CARGO



RECYCLING

# KNUCKLE JOINT LINK **FHL 02B**

STATIC  
LOAD



100 kN

WEIGHT



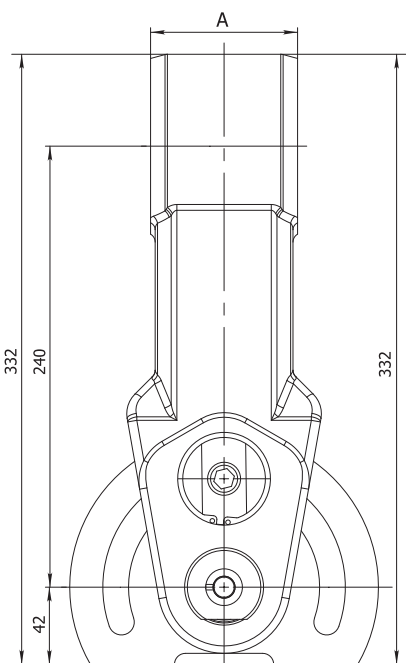
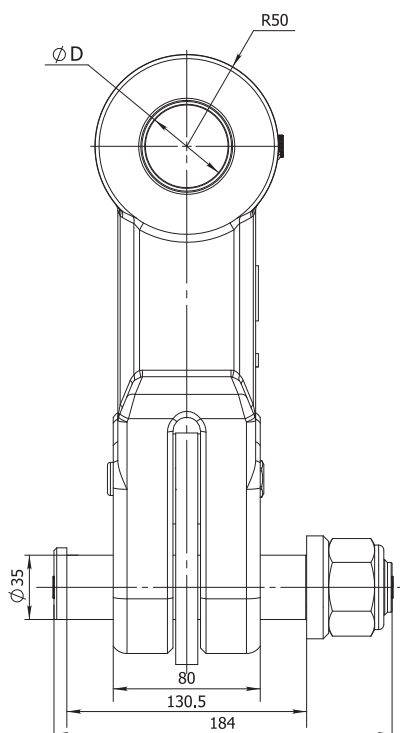
15 kg



FORGED  
STEEL



LINK NAME	D	A	WEIGHT
FHL 02-45	45	80	14.57
FHL 02-40	40	80	14.87
FHL 02-35	35	80	15.01
FHL 02-30	30	80	15.13
FHL 02B-100-45	45	100	15.58



Pin locking nut has to be tightened with a torque of 120 Nm.

Fill grease through grease nipples until it will appear to the external surfaces.

Greasing must be repeated after every 8 working hours of the link.

FORESTRY



AGRICULTURE



CONSTRUCTION



GENERAL CARGO



RECYCLING



# KNUCKLE JOINT LINK **FHL 03**

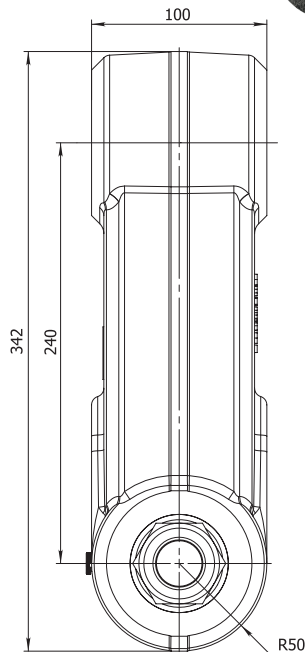
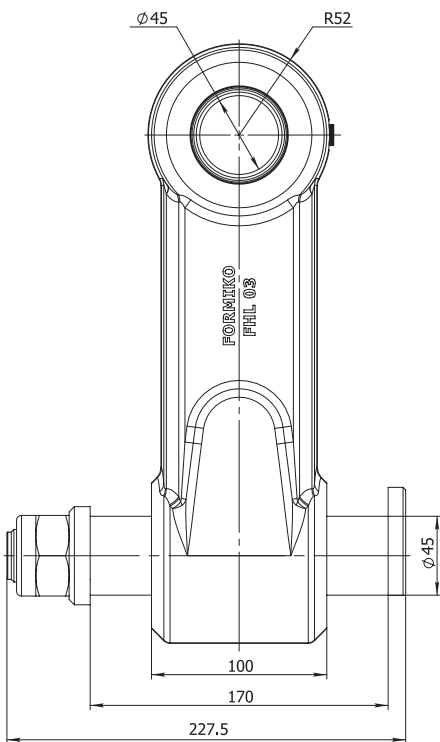
STATIC  
LOAD



WEIGHT



**FORGED  
STEEL**



The body of FHL03 knuckle joint link is made from shock resistant FORGED STEEL to improve reliability and equipped with steel bushings to extend lifetime.

Pin locking nut has to be tightened with a torque of 120 Nm

Fill grease through grease nipples until it will appear to the external surfaces.

Greasing must be repeated after every 8 working hours of the link.



FORESTRY



AGRICULTURE



CONSTRUCTION



GENERAL CARGO



RECYCLING