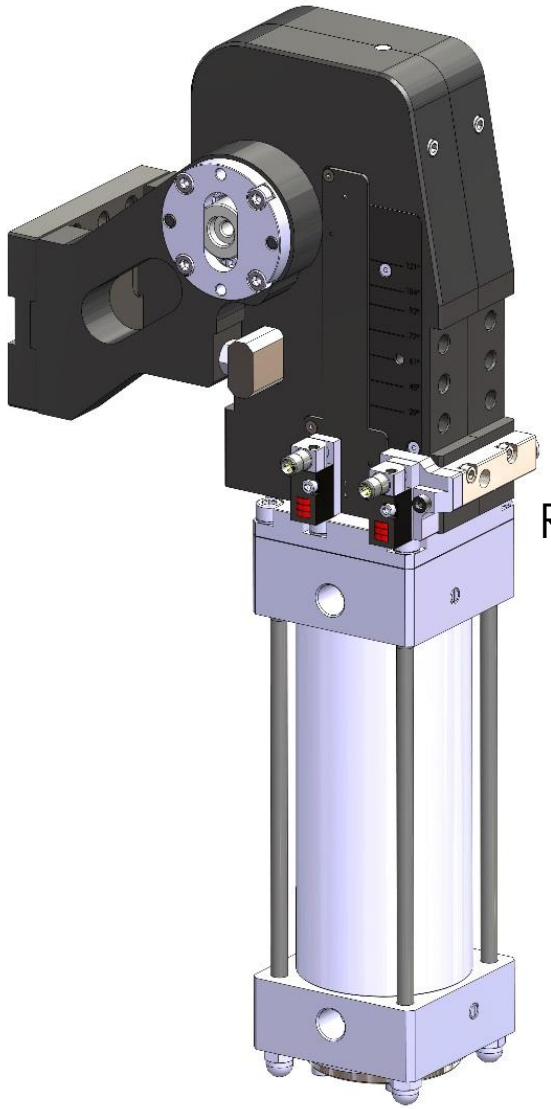
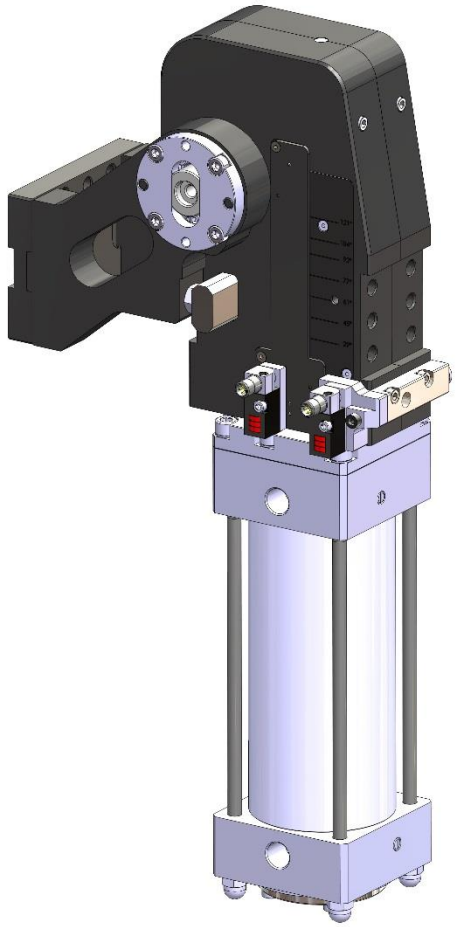


RFM.2/RCM.2 (100-125-160-200)

RFM.2/RCM.2 NEW PIVOT UNITS HYDRAULIC CONTROLLED, WITH OPENING ANGLES EASILY ADJUSTABLE AND SBI LOCK SYSTEM INTEGRATED INTO THE HEADS

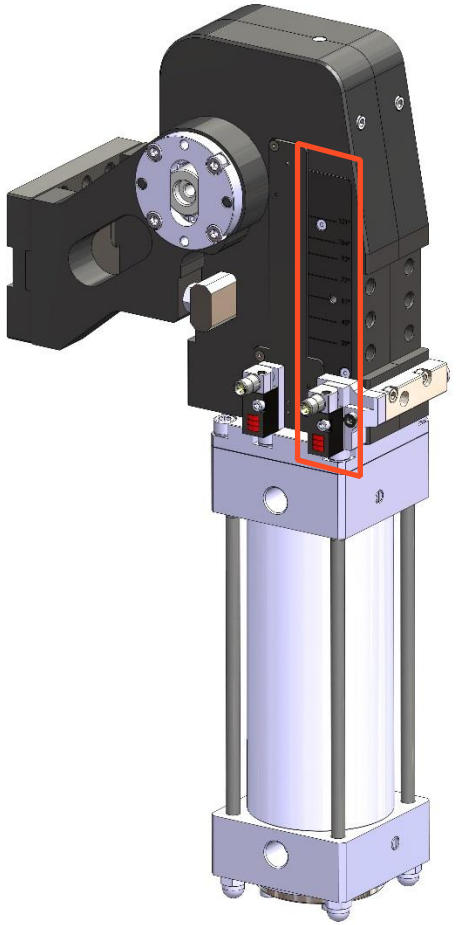
RFM.2/RCM.2 Mains Features



New RFM.2/RCM.2 Mains Features:

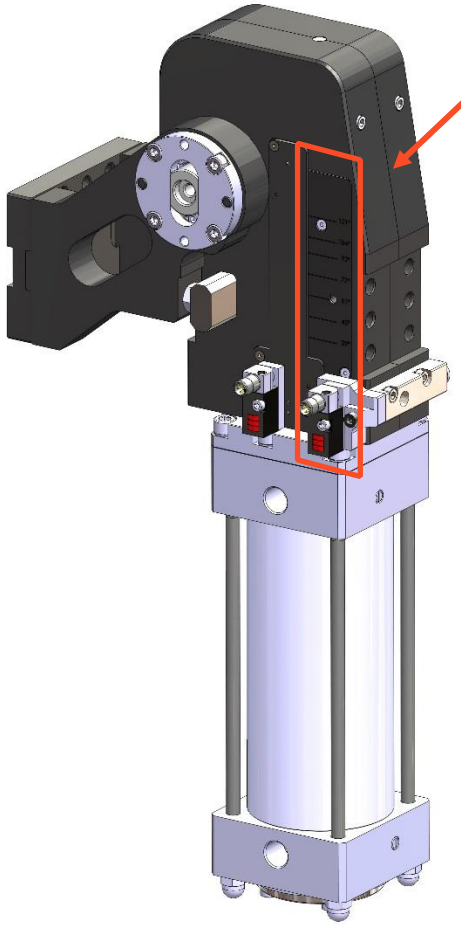
1. SBI Lock System (brake) integrated into the head (RFM-RF series) – (Patented)
2. Opening angles easily adjustable (RFM/RCM)
3. Sensors kit
4. Pneumo-Hydraulic motion control
5. External Arms Hard Stop
6. Patent, Parts List, Production
7. Ordination Codes (RFM/RF – RCM/RC)

1. SBI Lock System integrated into the mechanical head (RFM-RF)



1) SBI Lock System integrated into the mechanical head (Brake) Pivot Units RFM-RF

1. SBI Lock System integrated into the mechanical head (RFM-RF)



RFM Mechanical SBI Lock System integrated into the Head

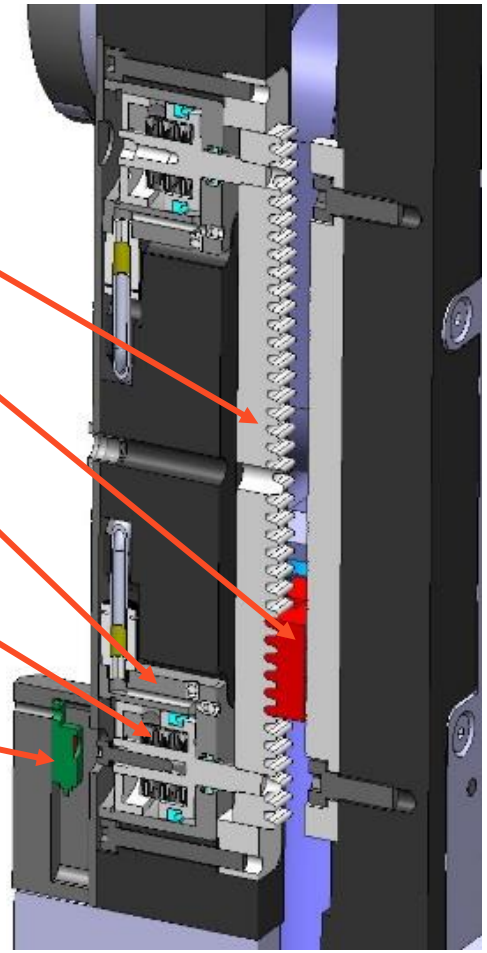
Main Teeth Bar Rack

Opposed Teeth Rack

Single Effect Pneumatic Cylinders

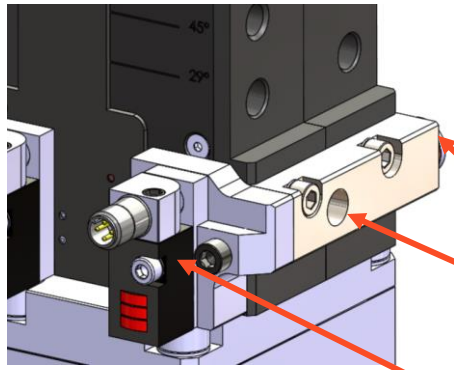
Disc Springs (Bauer)

SBI Lock System Off Inductive Sensor



Advantages:

- Secure and reliable braking (no piston rod lock system)
- Mechanical Teeth Bar Rack locker concept (no Hydraulic oil)
- Reduced arms gap in back position
- Integrated into the head (reduced external unit dimension. Save up to 200mm compared to our competitors)



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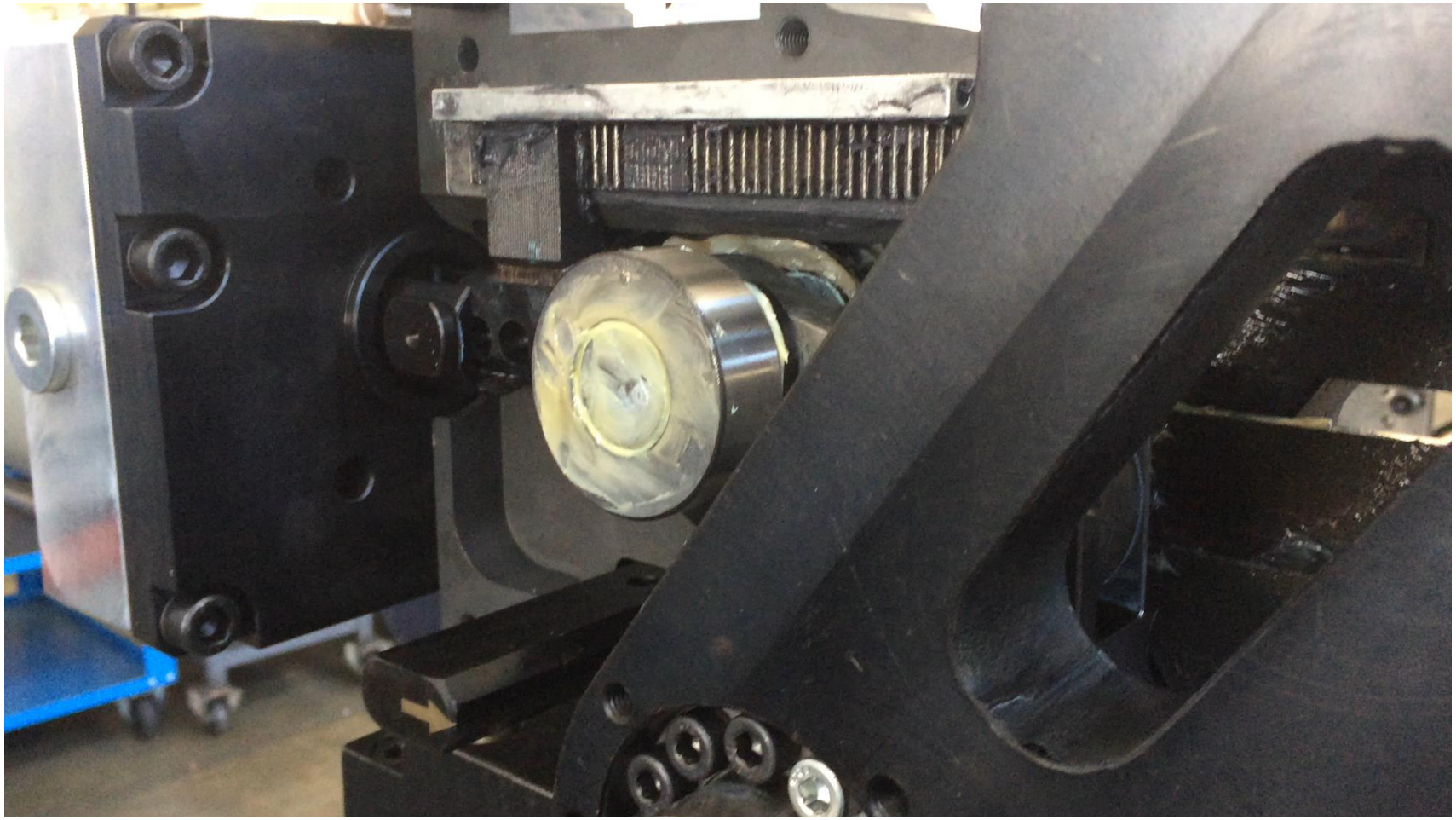
Double Air Connections for the SBI Lock System

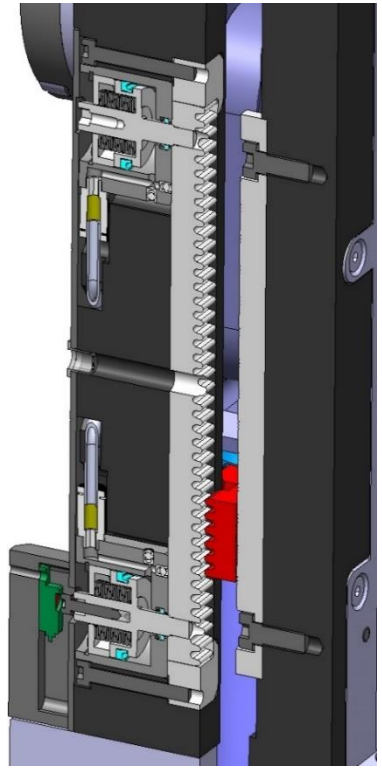
SBI Lock System Inductive Sensor (M12 Connection)

1. SBI Lock System integrated into the mechanical head (RFM-RF)

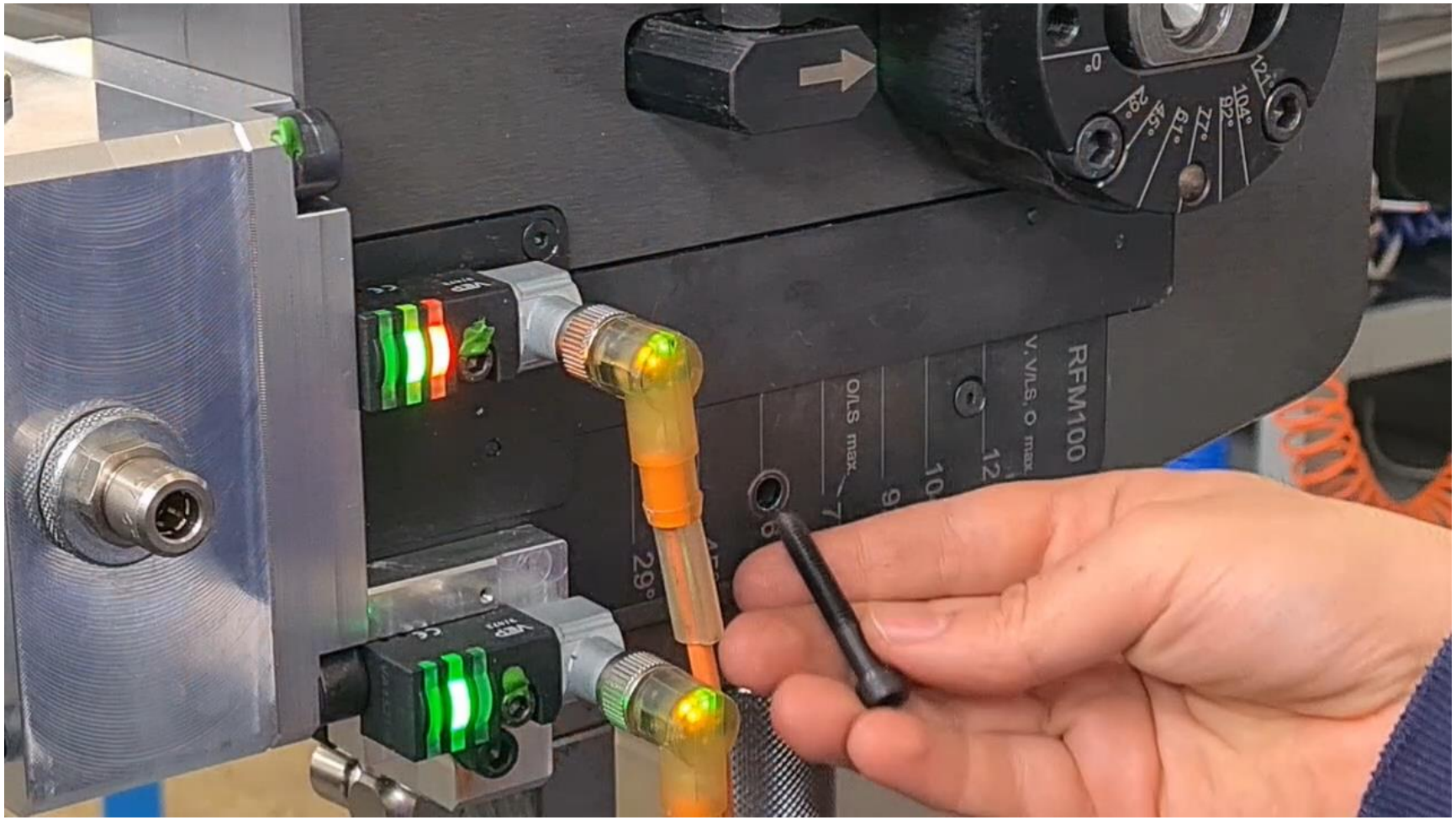


Link to WebVideo

Operating principle of the: Mechanical Teeth Bar Rack Locking System (SBI)



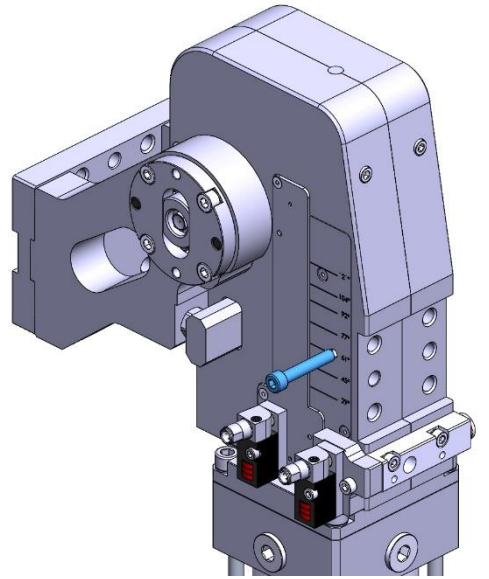
1. SBI Lock System integrated into the mechanical head (RFM-RF)



Manual Release of the SBI Lock System (Brake)

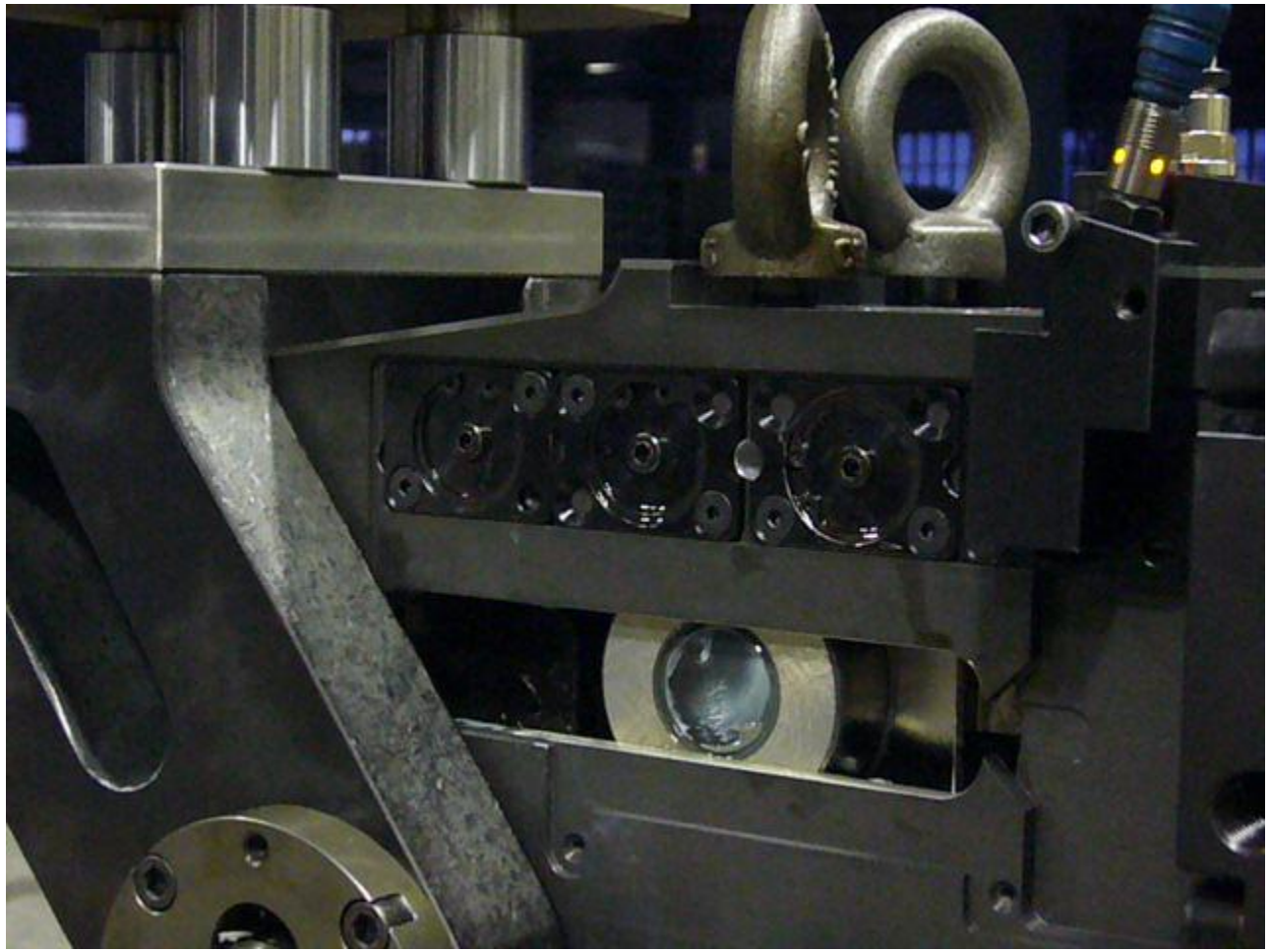
Procedure in case of lack of pressure in the pneumatic system or in case of anomaly

Needs: Nr.1 M6x40 (D.100) or Nr.1 M8x40 (D.125-160-200)



Link to WebVideo

1. SBI Lock System integrated into the mechanical head (RFM-RF)

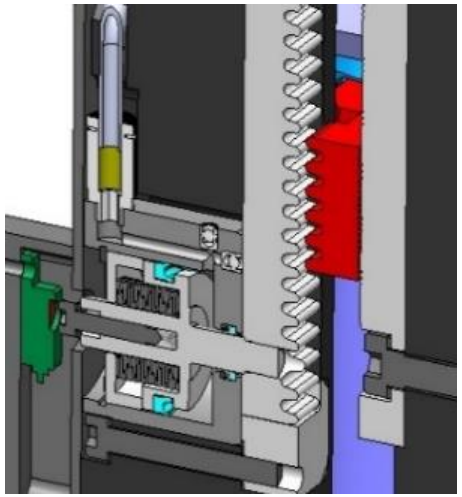


Example of emergency stops with maximum load for the Mechanical Locking System (SBI)

From 10.000 to 25.000 dynamic stops guaranteed at maximum load (B10 value) depending on the size of the Pivot Units

6,000,000 static stop cycles (B10 value) for SBI brake arming/disarming with unit stationary at backward or forward position

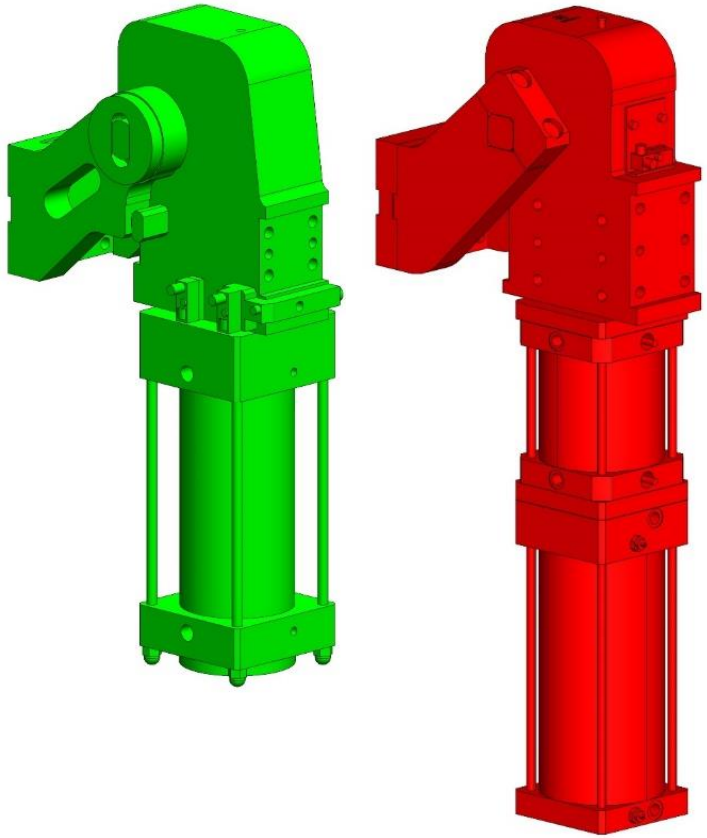
«Holding Force» of the rack and pinion SBI system:
55.000N (D.100)
65.000N (D125-160-200)



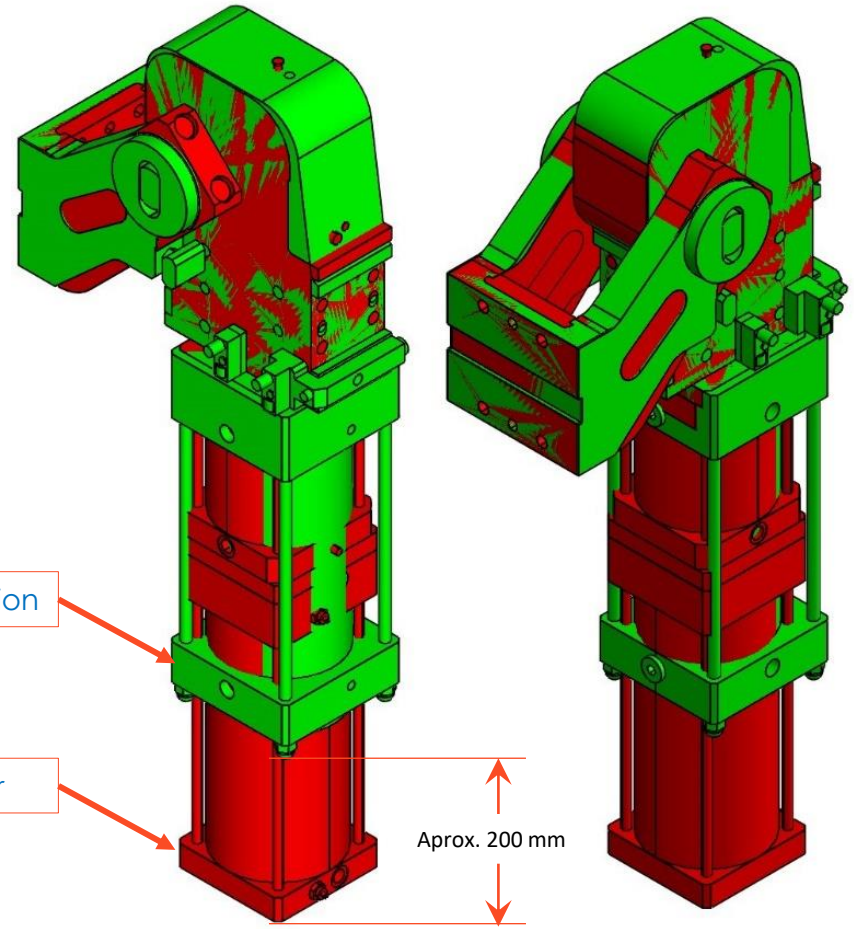
1. SBI Lock System integrated into the mechanical head (RFM-RF)

VEP Automation
RFM125.2

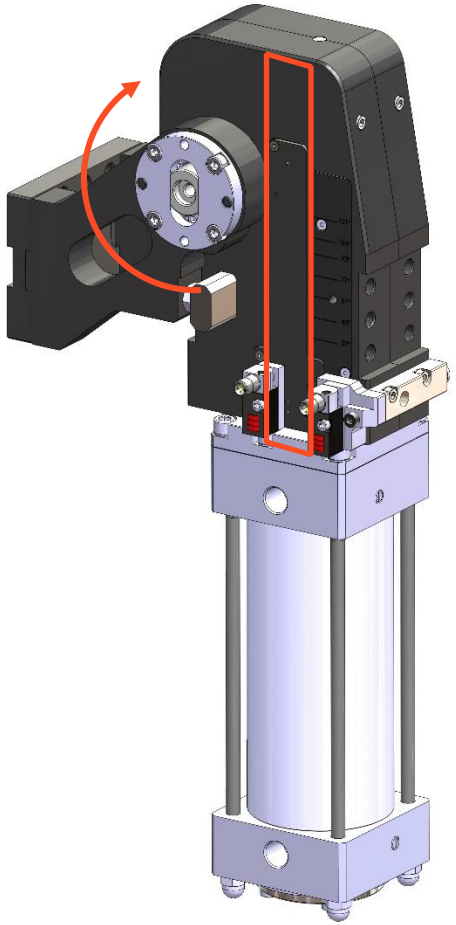
Competitor
KS125.4-BD



Example of Dimensional Comparison between: VEP Automation VS Competitor "Dimensional Advantage"

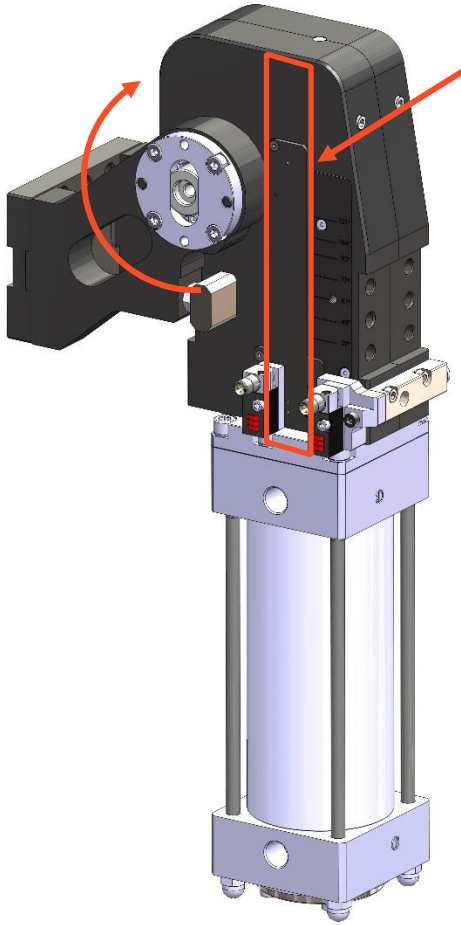


2. Opening angles easily adjustable



2) Opening angles easily adjustable (RFM/RCM)

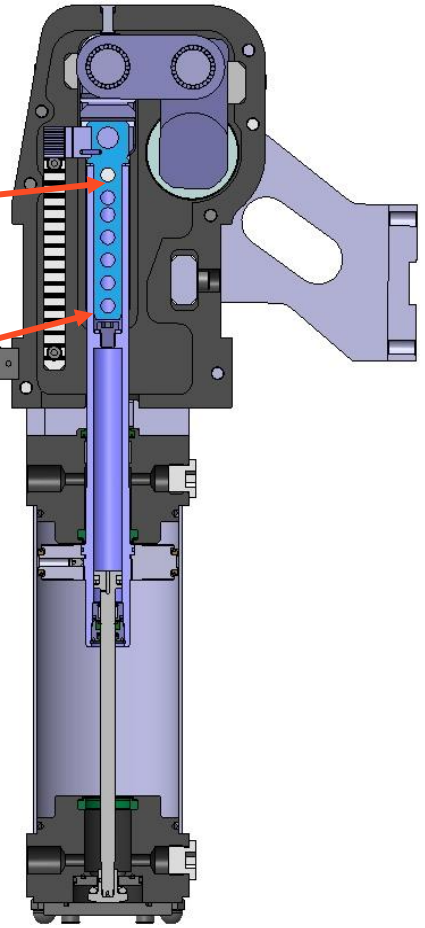
2. Opening angles easily adjustable

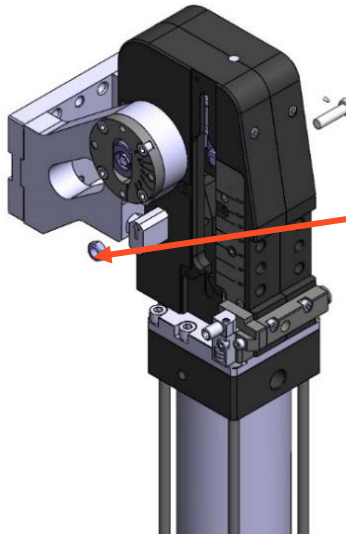


RFM Opening Angles Easily adjustable

Holes for Opening Angles Set

Telescopic Piston Rod that allows the angle change





Removable Pin and Nut for the Opening Angles Changing

Advantages:

- Reduction of the amount of spare units needed (up to 50-55%).
- Easy re-use of units on different and future applications and projects
- The customer can change the opening angle himself (no additional parts needed)
- Possible adjustment of the opening angle during the set-up phase of the line in order to optimize cycle times or robot passages

2. Opening angles easily adjustable

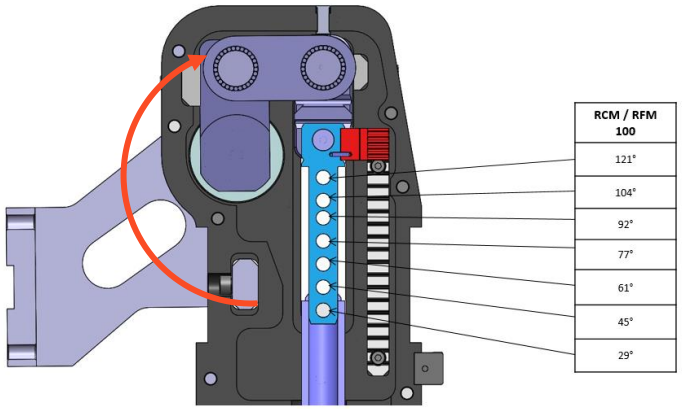
[Link to WebVideo]

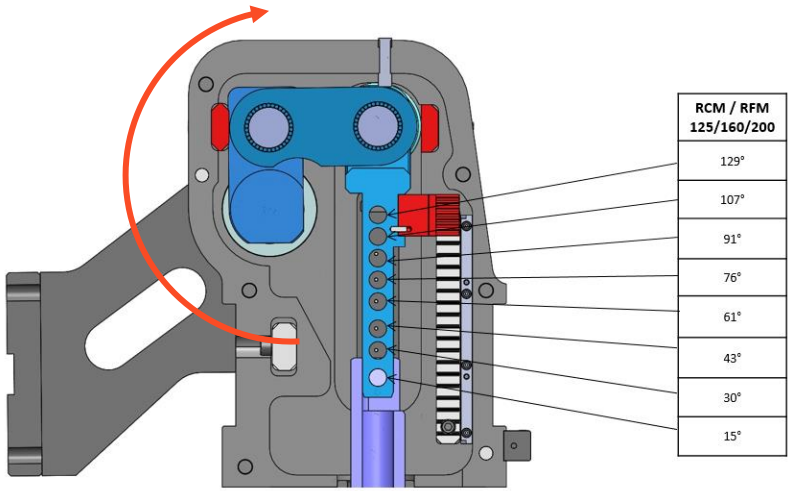
Instructions for Opening Angles Changing

Example of Angle Changing of RFM100.2
From 121° to 45°

RFM100.2 OPENING ANGLES							
Arms \ Angles	29°	45°	61°	77°	92°	104°	121°
V	●	●	●	●	●	●	●
V/LS	●	●	●	●	●	●	●
O	●	●	●	●	●	●	●
O/LS	●	●	●	●			

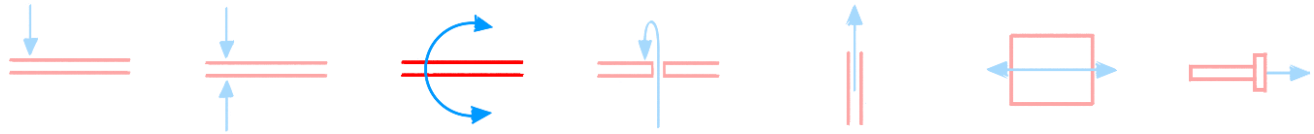
2. Opening angles easily adjustable





RFM100.2 OPENING ANGLES							
Arms \ Angles	29°	45°	61°	77°	92°	104°	121°
V	●	●	●	●	●	●	●
V/LS	●	●	●	●	●	●	●
O	●	●	●	●	●	●	●
O/LS	●	●	●	●			

RFM125-160-200.2 OPENING ANGLES								
Arms \ Angles	15°	30°	43°	61°	76°	91°	107°	129°
V	●	●	●	●	●	●	●	●
V/LS	●	●	●	●	●	●	●	●
O	●	●	●	●	●	●	●	
O/LS	●	●	●	●	●			



2. RF Unit additional Opening angles (Fix, Not Adjustable)

In case of the RFM units available angles are not in according to the application designed by the customer, on request, we can provide the RF unit which allows to have a larger number of available opening angles. Herewith below the complete list of the RF opening angles.

Note: The RF unit doesn't have the opening angle easily adjustable. It's fixed as the old GR/RC. The cylinder length of the RF unit is in according to the opening angle as the unit GR/RC.

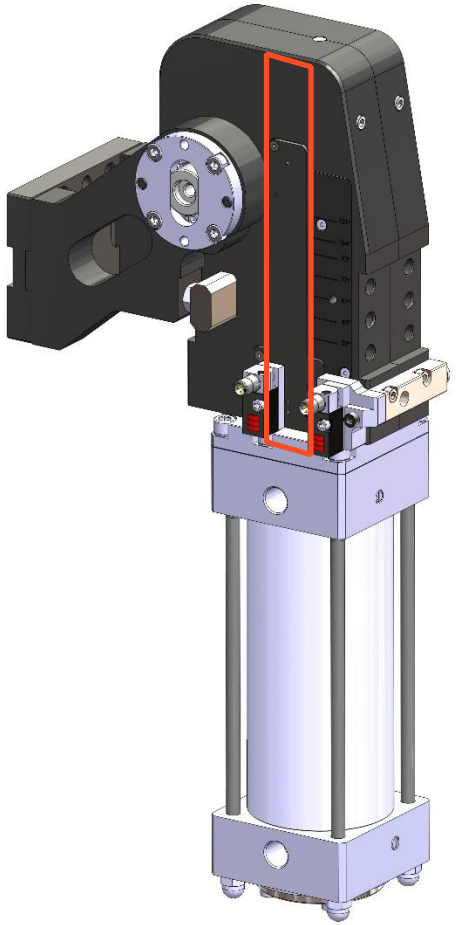
RF100.2 OPENING ANGLES (Option on request)

Arms \ Angles	15°	18°	22°	25°	**29°**	33°	37°	41°	**45°**	49°	53°	57°	**61°**	65°	69°	73°	**77°**	81°	85°	89°	**92°**	96°	100°	**104°**	108°	113°	117°	**121°**	127°	133°
V	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
V/LS	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
O	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
O/LS	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●												

RF125-160-200.2 OPENING ANGLES (Options on request)

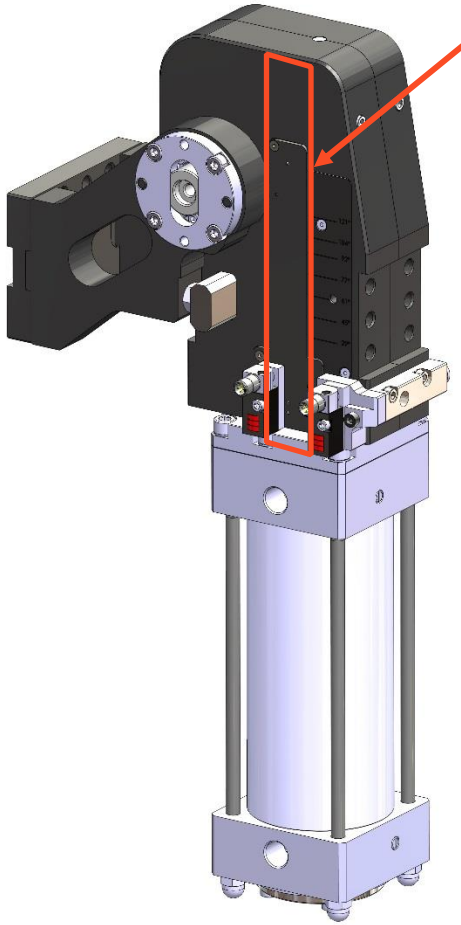
Arms \ Angles	**15°**	18°	21°	24°	27°	**30°**	33°	36°	40°	**43°**	47°	50°	54°	58°	**61°**	65°	69°	72°	**76°**	80°	83°	87°	**91°**	95°	99°	103°	**107°**	112°	116°	122°	**129°**
V	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
V/LS	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
O	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
O/LS	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●												

3. Detail of New Sensor Kit (Pivot Positioning)



3) Sensor kit (Pivot positioning and SBI Brake system)

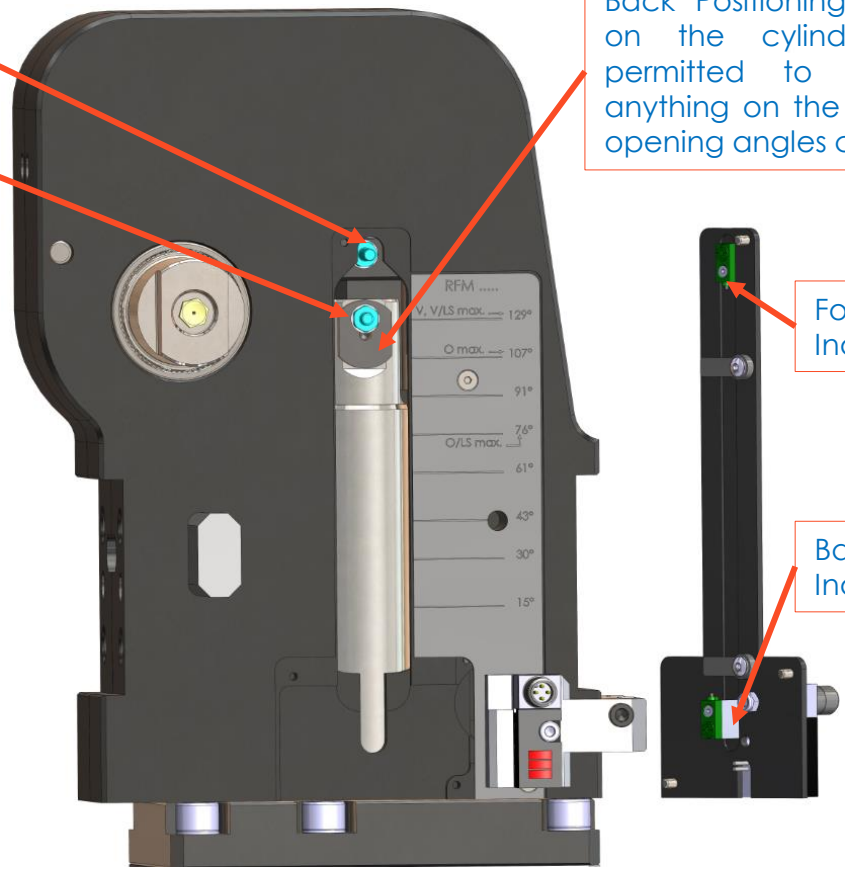
3. Detail of New Sensor Kit (Pivot Positioning)



New Sensor Kit
(Pivot Positioning)

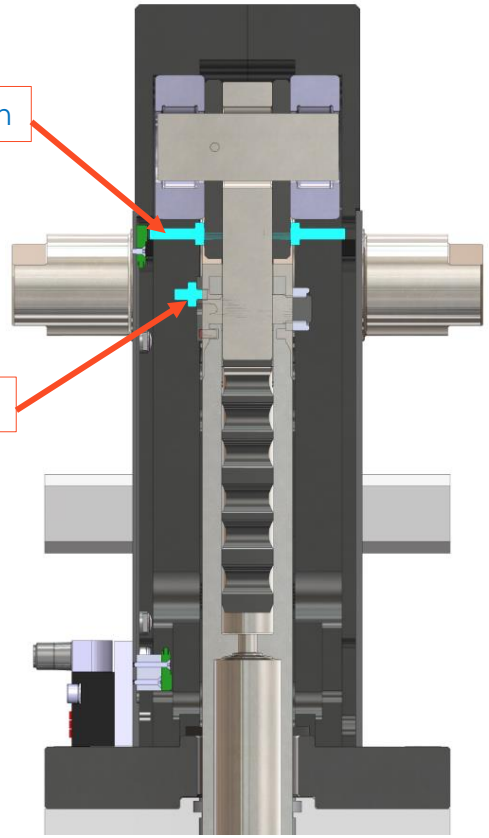
Advantages:

- The sensor kit permit to have more accuracy on the detection of the unit position
- The sensor kit don't need to be setup or adjust when the customer change the opening angles
- The P&F sensors, divided in two parts (Power Amplifier and Satellite Sensors) permit to replace easily and quickly the Power Amplifier part only
- It's reduced the number of spare parts codes (P&F separable sensors, are in common for all opening angle and Power Amplifier may be in common with other products).

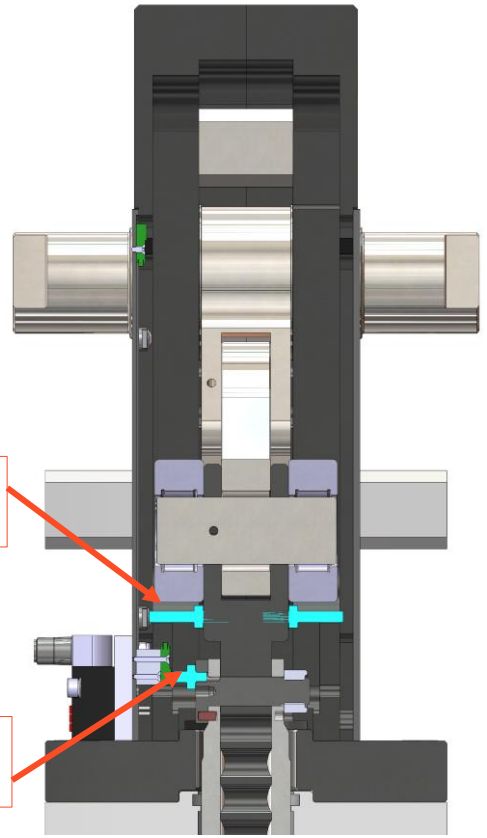


3. Detail of New Sensor Kit (Unit Position)

Unit on Forward Position 0°



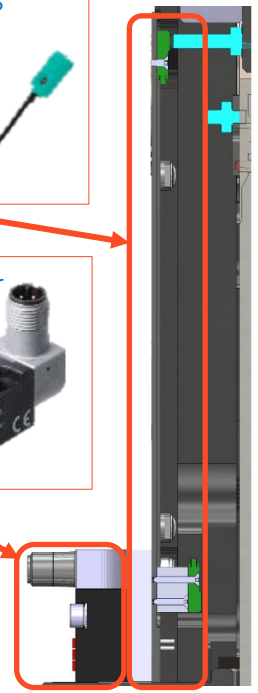
Unit on Back Position



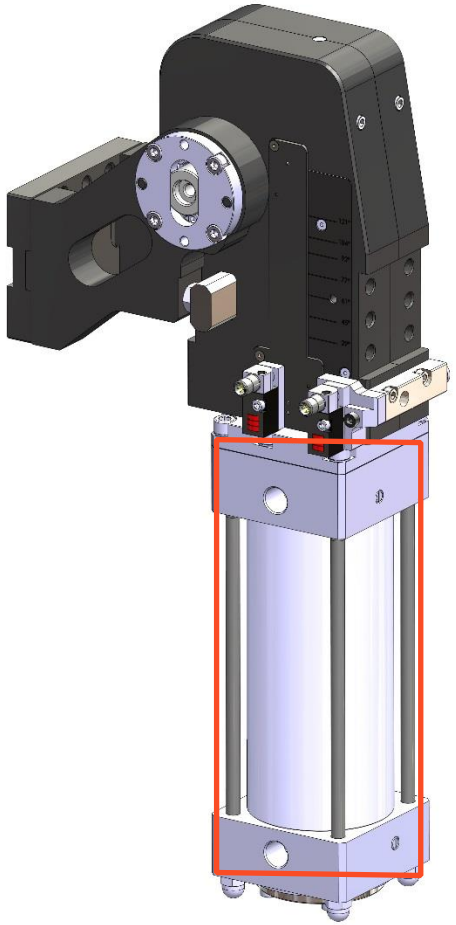
In the case of a P&F sensor, this is divided into two parts ("P" option), facilitating maintenance operations and reducing the stock of spare parts

P&F Satellite Sensors

P&F Power Amplifier

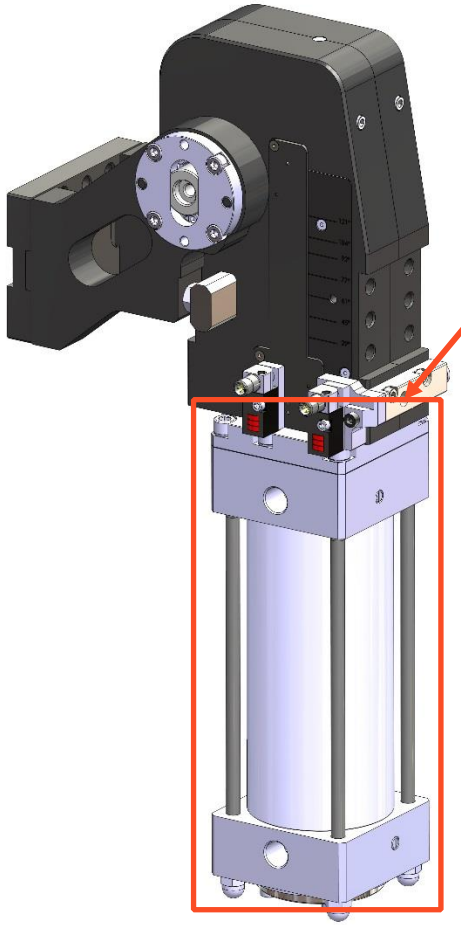


4. Pneumo-Hydraulic Motion Control

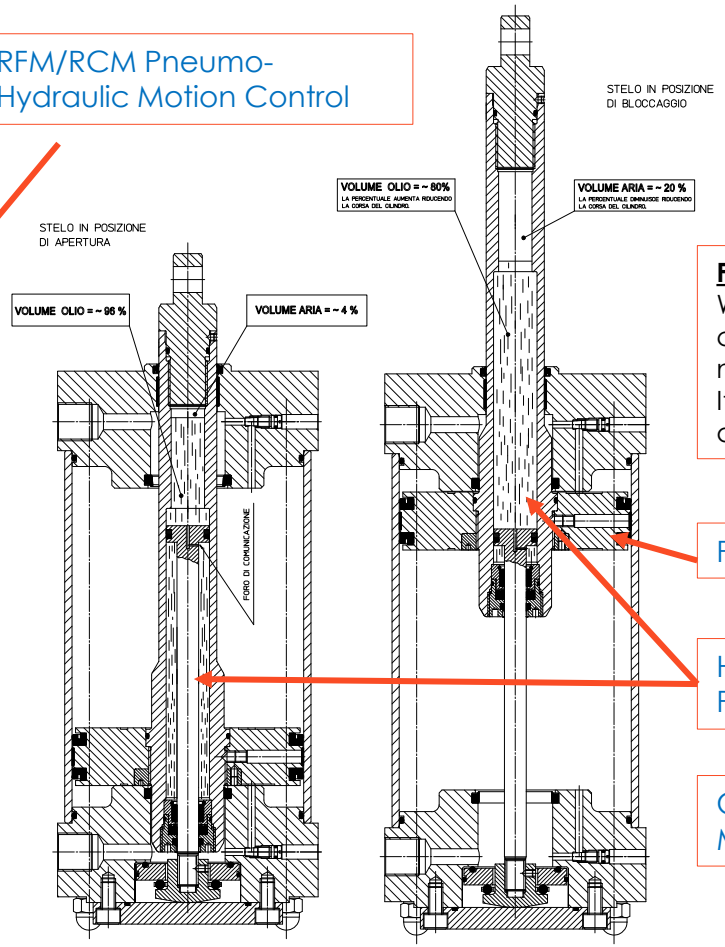


4) Pneumo-Hydraulic Motion Control

4. Pneumo-Hydraulic Motion Control



RFM/RCM Pneumo-Hydraulic Motion Control



Advantages:

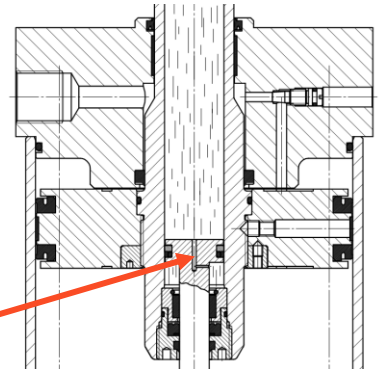
- Ensures a smooth and regular moving
- Improving of the Cycle Time (up to 2.0 Sec.)
- Avoid using additional shock absorber
- Avoid dangerous extra speed at first cycle (increased safety in manual loading stations)

Functioning description:
When the piston of the pneumatic cylinder runs, it forces the hydraulic oil, contained in the piston rod, to pass through a calibrated hole controlling the movement of the unit.
It helps to avoid the typical over-speeds due to the pneumatic systems and due to the behavior of the loads applied on the pivot unit during the rotation.

Pneumatic Unit Piston

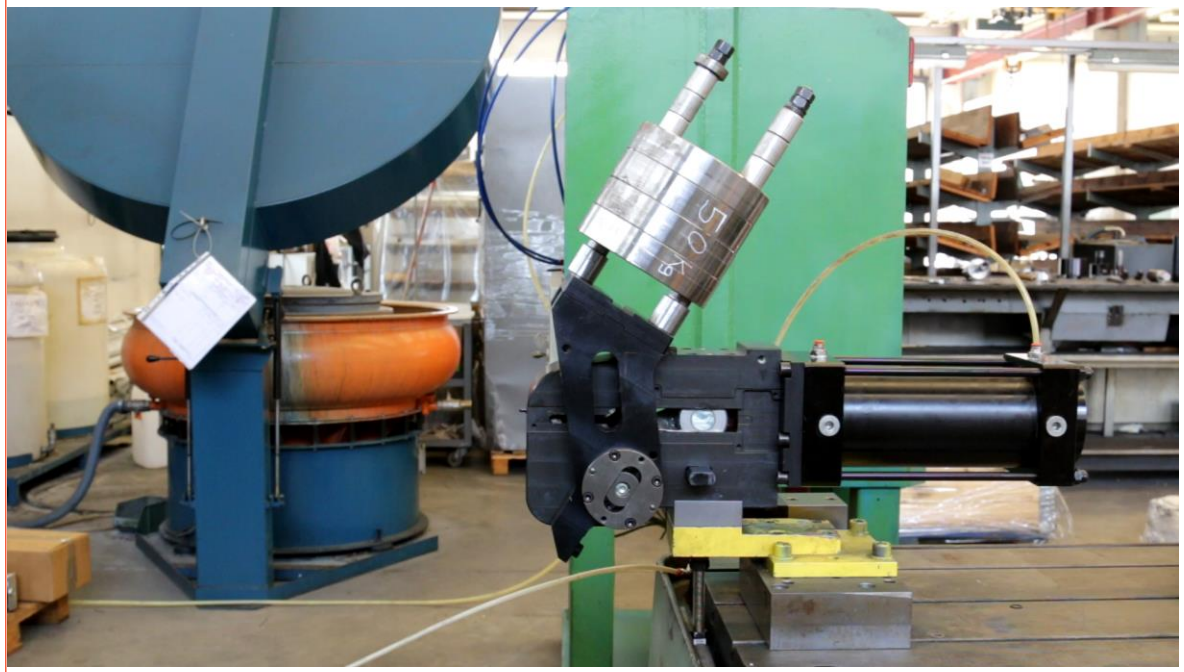
Hydraulic Oil into the Pneumatic Unit Rod

Calibrate Hole Control Movement



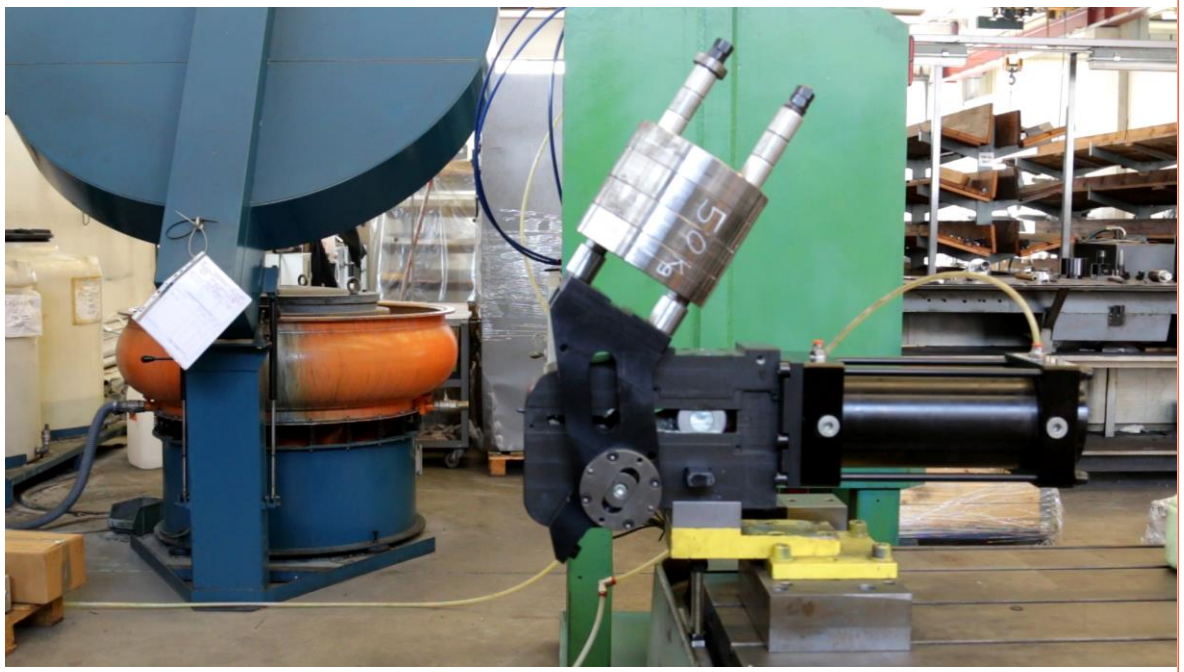
4. Pneumo-Hydraulic Motion Control

RFM/RCM **WITHOUT** Pneumo-Hydraulic motion control



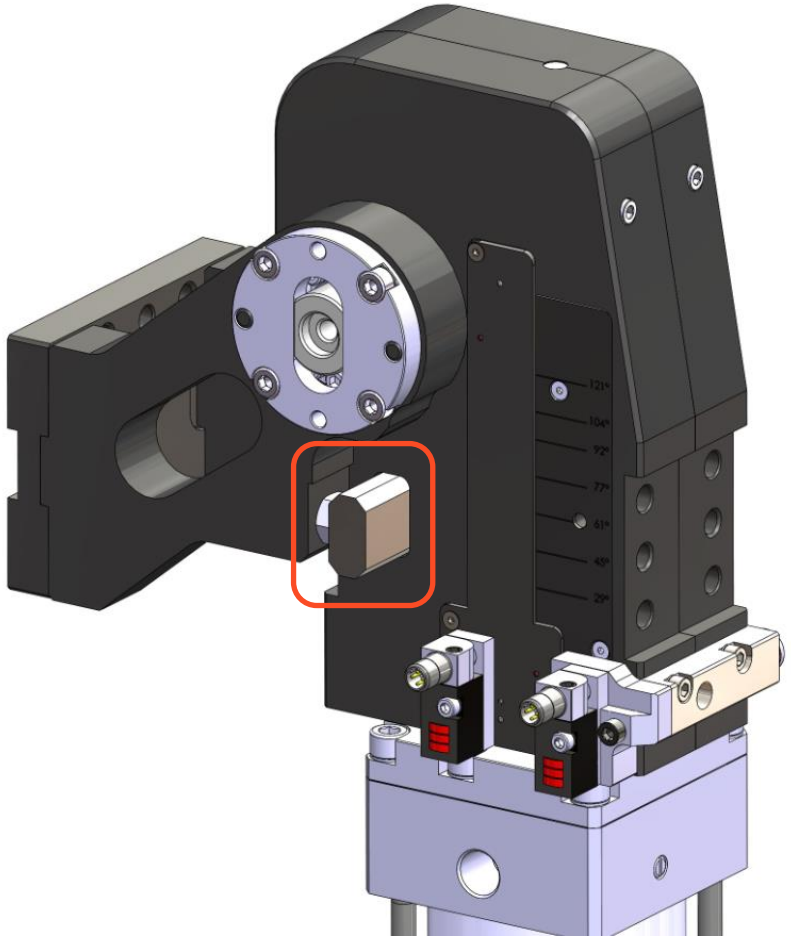
Link to WebVideo

RFM/RCM **WITH** Pneumo-Hydraulic motion control



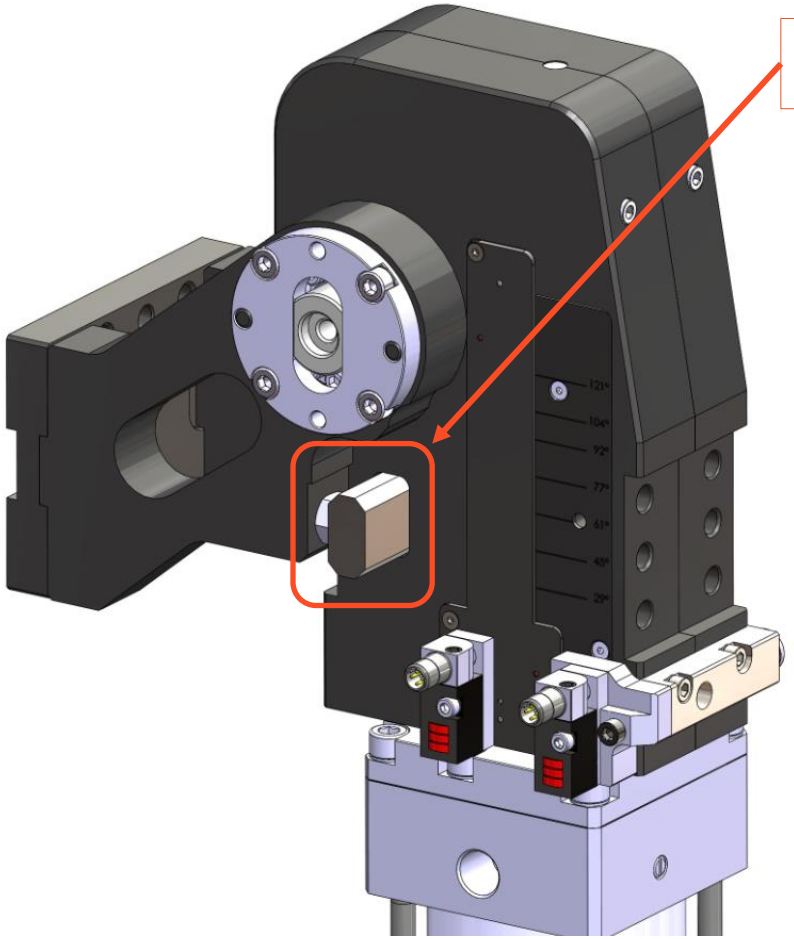
Link to WebVideo

5. External Arms Hard Stop



5) External Arms Hard Stop

5. External Arm Hard Stop

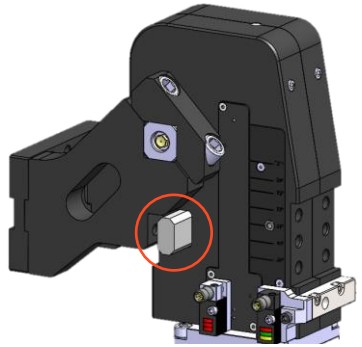


Advantages:

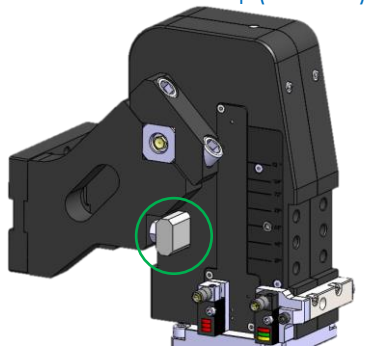
- With the external arms hard stop is being increased the repeatability and accuracy of the arms position
- With the external arms stop it can be easily verified the reached of forward position 0°
- The external arms hard stop are integrated into the heads (no additional external dimensions)
- The external arms hard stop are included into the basical unit price (no additional costs)
- Available several Arms Options in according to Customers specifications

Arm Fix options and External Arms Hard Stop

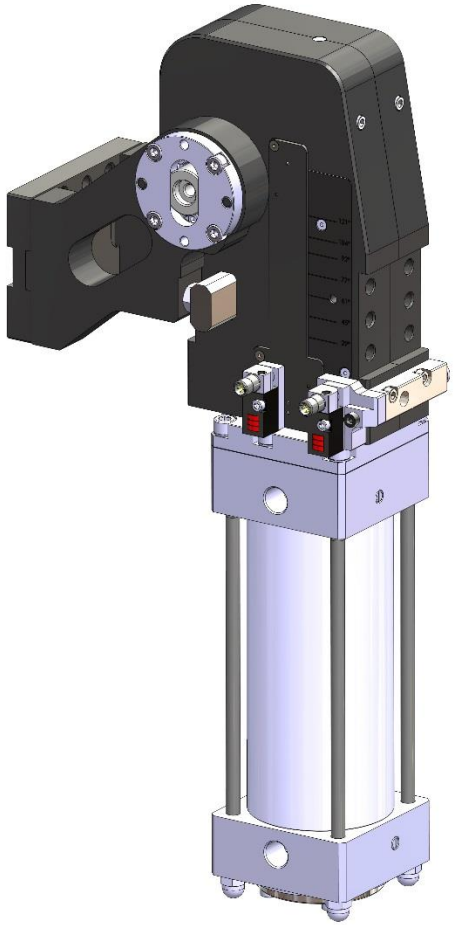
Assembly of lever arms "square" and WITHOUT arms hard stop (RFM**A**.2)



Assembly of lever arms "square" and WITH arms hard stop(RFM**B**.2)



6. Patent, Parts List, Production



6) Patent, Parts List, Production

6. Patent, Parts List, Production

(54) **Device for stopping the oscillation of the arm of a handling equipment of the swingable lever type**

(57) A handling equipment of the swingable lever type comprises an arm rotationally connected to a shaft (18) that extends from a body (10) of the equipment, and a toggle mechanism (33) interposed between the shaft (18) and one end of an axially slidable stem (34). The sliding of the stem (34) is controlled by pressurized fluid control means so as to cause an angular oscillation of the arm between two predetermined end-of-stroke angular positions. The equipment further comprises a device for stopping the oscillation of the arm, including a first engagement member (42, 40) fixed to the body (10) and a second engagement member (40) movable together with the stem (the 34), which members (40, 42) have respective reciprocally facing active surfaces adapted to reach a frontal engagement condition as a result of the transverse movement of one of them with respect to the stem (34), when a pressure drop of the fluid fed to said control means takes place, with the aim of stopping the movement of the stem (34).

EP 2 177 319 A1

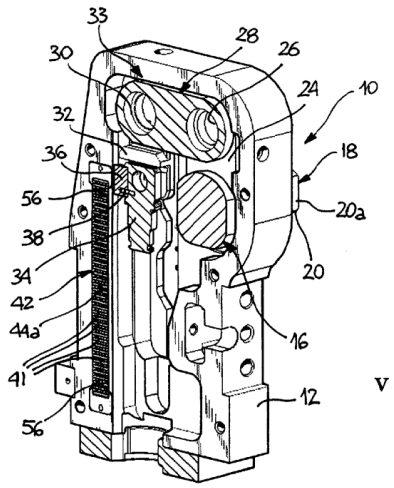


Fig. 3

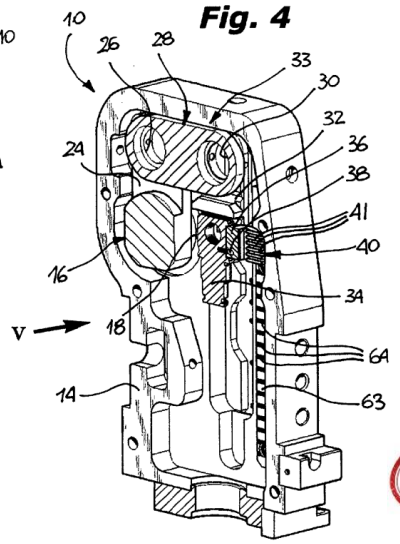
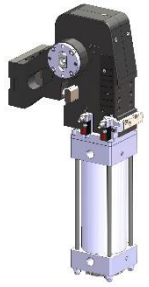
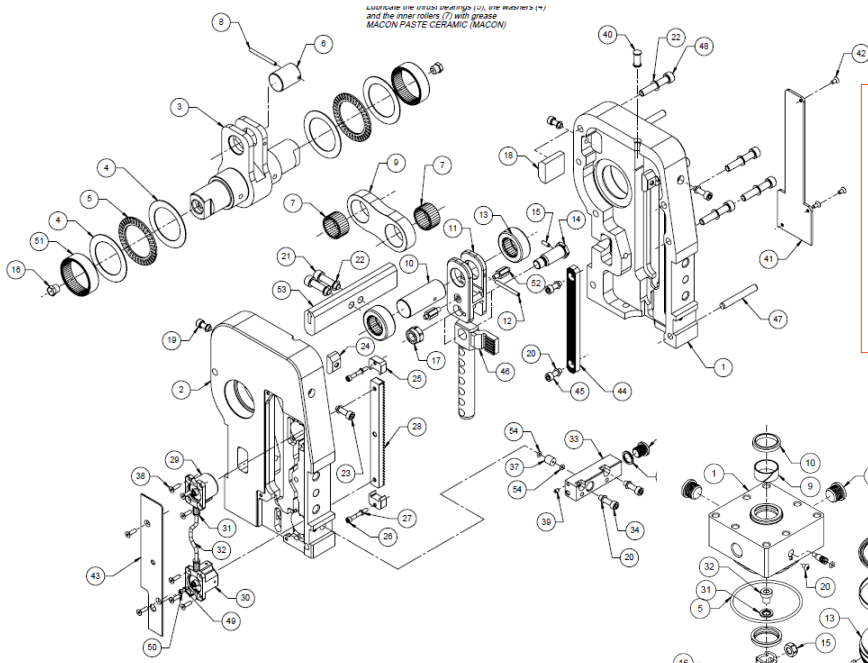


Fig. 4



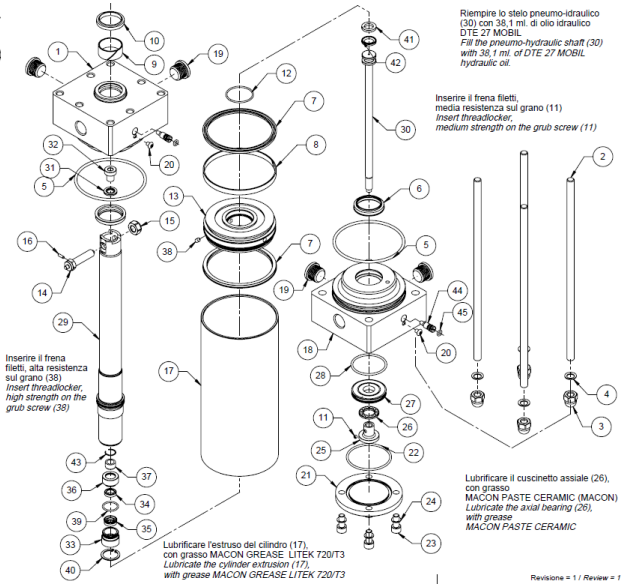


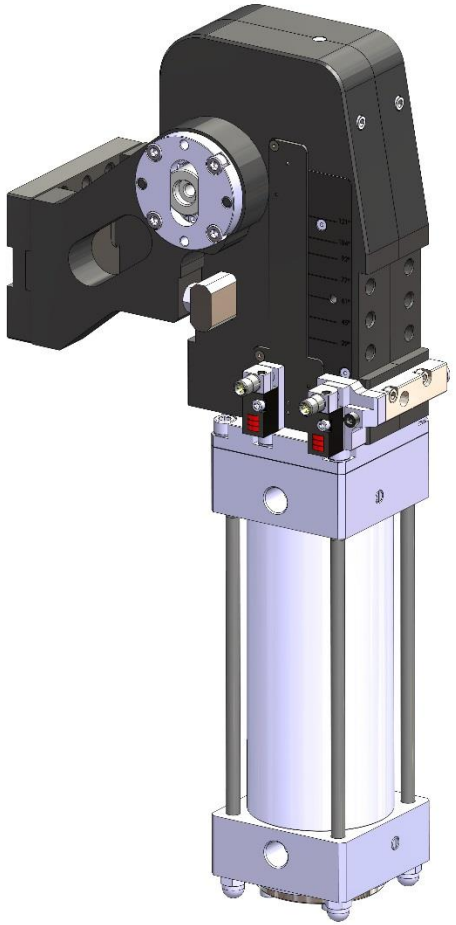
Part List RFM:

More than 200 pcs between manufactured and commercial parts

Production Volumes:

More than 20,000 pcs. sold from 2009 to 2022/06

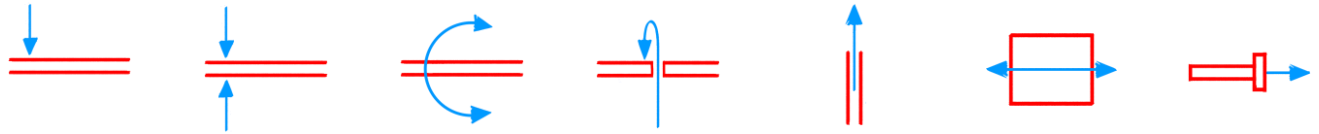




7) Code to Order RFM/RF e RCM/RC

RFM: With Lock System and Opening Angle Changeable
RF: With Lock System and Opening Angle Fixed

RCM: Without Lock System and with Opening Angle Changeable
RC: Without Lock System and with Opening Angle Fixed



RFM125.2 – 91 – V – PX – P – G – X

RFM100.2
alesaggio Ø100mm
cylinder bore Ø100mm
RFM125.2
alesaggio Ø125mm
cylinder bore Ø125mm
RFM160.2
alesaggio Ø160mm
cylinder bore Ø160mm
RFM200.2
alesaggio Ø200mm
cylinder bore Ø200mm

RFMA (optional)

RFMB (optional)

Tipologia fori d'alimentazione:
Feeding ports type:
G: fori tipo G...*
ports type G...*
N: fori tipo ...*NPT
ports type ...*NPT

Tipo sensore induttivo:
Inductive sensor type:
P: Pepperl+Fuchs con LED rosso
Pepperl+Fuchs with red LED

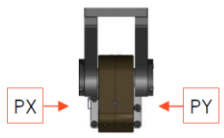
Angolo d'apertura
Opening angle

RFM100.2								
O	---	29°	45°	61°	77°	92°	104°	121°
O/LS	---	29°	45°	61°	77°	---	---	---
V	---	29°	45°	61°	77°	92°	104°	121°
V/LS	---	29°	45°	61°	77°	92°	104°	121°
RFM125.2 / 160.2 / 200.2								
O	15°	30°	43°	61°	76°	91°	107°	---
O/LS	15°	30°	43°	61°	76°	---	---	---
V	15°	30°	43°	61°	76°	91°	107°	129°
V/LS	15°	30°	43°	61°	76°	91°	107°	129°

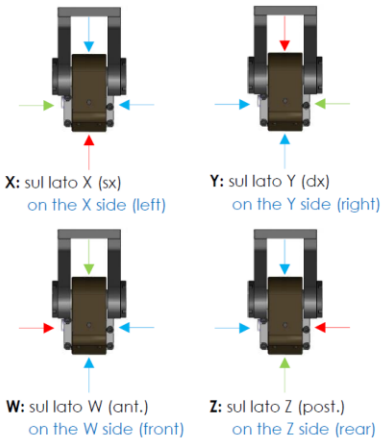
Angoli d'apertura addizionali sono disponibili su richiesta con l'unità **RF.2** (vedi pagina 26 – 27)
On request are available additional opening angles with the **RF.2** (see page 26 – 27)

Tipologia braccio leva (vedere pagine dimensionali):
Swivel arm type (see dimensional pages):
O: braccio leva orizzontale
horizontal arm
V: braccio leva verticale
vertical arm
O/LS: braccio leva orizzontale simmetrico
symmetric horizontal arm
V/LS: braccio leva verticale simmetrico
symmetric vertical arm

Posizione sensore induttivo (vedere pag. 23):
Inductive sensor position (see page 23):
PO: senza
without
PX: sul lato X
on the X side
PY: sul lato Y
on the Y side



Posizione fori d'alimentazione e smorzatore di finecorsa:
Feeding ports position and cushion adjustment:



X: sul lato X (sx)
on the X side (left)
Y: sul lato Y (dx)
on the Y side (right)
W: sul lato W (ant.)
on the W side (front)
Z: sul lato Z (post.)
on the Z side (rear)

connessione aria air connection
connessione aria con tappo
air connection with plug
smorzatore di finecorsa cushion adjustment

N.B.
Il sensore del blocco integrato (SBI) si trova sempre sul lato sinistro (PX)
Note:
SBI lock system sensor is always on the left side (PX)

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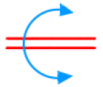
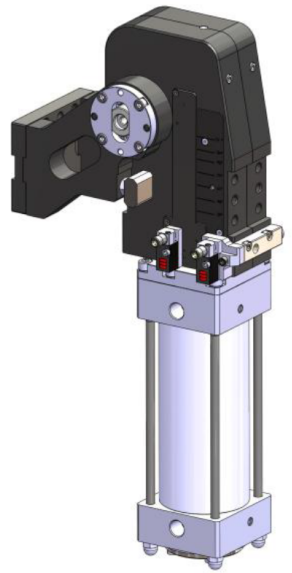


Ribaltatore pneumo-idraulico RFM/RF.2
Pneumo-hydraulic swivel unit RFM/RF.2

Caratteristiche principali:

- Blocco (SBI) integrato nella meccanica (brevettato)
- Sistema di cambio angolo facilitato (RFM)
- Versione (RF) con angolo d'apertura fisso
- Fianchetti in alluminio
- Dispositivo a ginocchiera interno
- Bracci leva in acciaio ed arresto bracci leva esterno
- 2 possibilità di staffaggio (fronte e retro)
- 6 fori di connessione (GAS o NPT)
- 2 smorzatori di finecorsa pneumatici regolabili
- Nuovo finecorsa induttivo (connessione M12x1)
- Controllo idraulico della movimentazione integrato nel cilindro pn.



Main characteristics:

- Lock system (SBI) integrated into the head (patented)
- Opening angle easily adjustable (RFM)
- (RF) version with fixed opening angle
- Aluminum flanks
- Toggle action mechanism
- Steel arms and external arms stop
- 2 mounting areas (front and back)
- 6 feeding ports (GAS or NPT)
- 2 end strokes pneumatic cushioning adjustable
- New inductive proximity switch (connection M12x1
- Hydraulic motion control integrated into pneumatic cylinder

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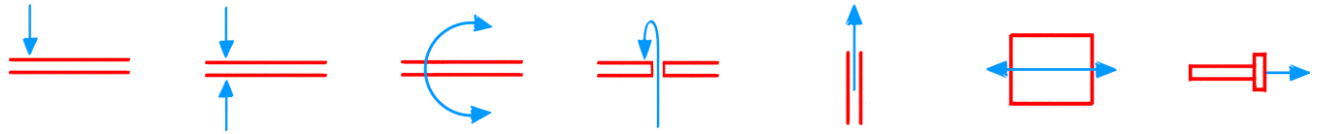


RCM125.2 – 91 – V – PX – P – G – X

RCM100.2
alesaggio Ø100mm
cylinder bore Ø100mm
RCM125.2
alesaggio Ø125mm
cylinder bore Ø125mm
RCM160.2
alesaggio Ø160mm
cylinder bore Ø160mm
RCM200.2
alesaggio Ø200mm
cylinder bore Ø200mm

RCMA (optional)

RCMB (optional)

Tipologia fori d'alimentazione:
Feeding ports type:
G: fori tipo G...*
ports type G...*
N: fori tipo ...*NPT
ports type ...*NPT

Tipo sensore induttivo:
Inductive sensor type:
P: Pepperl+Fuchs con LED rosso
Pepperl+Fuchs with red LED

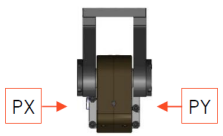
Angolo d'apertura
Opening angle

RCM100.2								
O	---	29°	45°	61°	77°	92°	104°	121°
O/LS	---	29°	45°	61°	77°	---	---	---
V	---	29°	45°	61°	77°	92°	104°	121°
V/LS	---	29°	45°	61°	77°	92°	104°	121°
RCM125.2 / 160.2 / 200.2								
O	15°	30°	43°	61°	76°	91°	107°	---
O/LS	15°	30°	43°	61°	76°	---	---	---
V	15°	30°	43°	61°	76°	91°	107°	129°
V/LS	15°	30°	43°	61°	76°	91°	107°	129°

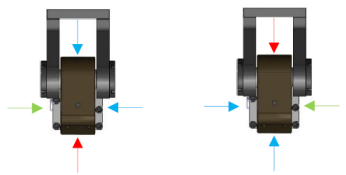
Angoli d'apertura addizionali sono disponibili su richiesta con l'unità **RC.2**. (vedi pagina 25)
On request are available additional opening angles with **RC.2** units. (see page 25)

Tipologia braccio leva (vedere pagine dimensionali):
Swivel arm type (see dimensional pages):
O: braccio leva orizzontale
horizontal arm
V: braccio leva verticale
vertical arm
O/LS: braccio leva orizzontale simmetrico
symmetric horizontal arm
V/LS: braccio leva verticale simmetrico
symmetric vertical arm

Posizione sensore induttivo (vedere pag. 23):
Inductive sensor position (see page 23):
PO: senza
without
PX: sul lato X
on the X side
PY: sul lato Y
on the Y side



Posizione fori d'alimentazione e smorzatore di finecorsa:
Feeding ports position and cushion adjustment:



X: sul lato X (sx)
on the X side (left)

Y: sul lato Y (dx)
on the Y side (right)

W: sul lato W (ant.)
on the W side (front)

Z: sul lato Z (post.)
on the Z side (rear)

connessione aria air connection
connessione aria con tappo
air connection with plug
smorzatore di finecorsa cushion adjustment

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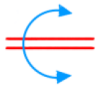


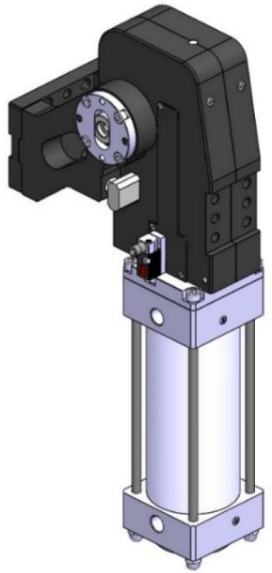
Ribaltatore pneumo-idraulico RCM/RC.2
Pneumo-hydraulic swivel unit RCM/RC.2

Caratteristiche principali:

- Sistema di cambio angolo facilitato (RCM)
- Versione (RC) con angolo d'apertura fisso
- Controllo idraulico della movimentazione integrato nel cilindro pneumatico
- Fianchetti in alluminio
- Dispositivo a ginocchiera interno
- Bracci leva in acciaio
- Arresto bracci leva esterno
- 2 possibilità di staffaggio (fronte e retro)
- Alesaggio del cilindro pneumatico: 100/125/160/200 mm
- 6 fori di connessione (GAS o NPT)
- 2 smorzatori di finecorsa pneumatici regolabili
- Nuovo finecorsa induttivo (connessione M12x1)

Main characteristics:

- Opening angle easily adjustable (RCM)
- (RC) version with fixed opening angle
- Hydraulic motion control integrated into the pneumatic cylinder
- Aluminum flanks
- Toggle action mechanism
- Steel arms
- External arms stop
- 2 mounting areas (front and back)
- 4 Pneumatic cylinder bore: 100/125/160/200 mm
- 6 feeding ports (GAS or NPT)
- 2 end strokes pneumatic cushioning adjustable
- Inductive proximity switch (connection M12x1)



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