# ULR 50

Compact pneumatic retractable locating pin unit, single rod, Ø50 mm



Compact pneumatic retractable pin unit, single rod, typically used in welding applications to locate metal sheets in a definite position.

- Metal rod scraper
- Antirotation system
- Double guide to avoid backlash
- Compact dimensions
- Electronic or pneumatic sensor
- Many rod end styles available



## CHARACTERISTICS

| | |
|---|---|
| Operating temperature | **5° ÷ 45° C** |
| Min./Max. operating pressure | **0,4 / 0,6 MPa** |
| Bore Ø | **50 mm** |
| Max Pull force (0,5 MPa) | **860 N** |
| Max Push force (0,5 MPa) | **960 N** |
| Max. Torque (6 Nm) | **± 0,06 mm** |
| Max. Deflection (7,5 Nm) | **± 0,03 mm** |
| Weight | **1,9 Kg** |
| Pneumatic supply ports | **G 1/4** |
| Sensor | **electronic (optical)** |
| Supply voltage | **10 ÷ 30 Vdc** |
| IP code | **IP 65** |

OPTICAL SENSOR

LIGHTWEIGHT

COMPACT

METAL SCRAPER

DOUBLE GUIDE

ANTI ROTATION

## CODIFICATION KEY

| UL | R | 50 | **040** | **C** | **X** | **K** | 0 | | |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |

**1 SERIES**
UL = UNICLAMP locating pin unit

**2 VERSION**
R = Compact pneumatic, single rod

**3 SIZE**
50 = Ø50 mm

**4 STROKE**
015 = 15 mm
025 = 25 mm
040 = 40 mm
050 = 50 mm
060 = 60 mm

**5 ROD END STYLE**
A = Rod for offset pins
B = Rod with profled end
C = Rod with cross-profiled end inner Ø 16 mm
D = Rod for offset pins with oversized dowel holes
E = Rod with cross profiled end inner Ø 10 mm
F = Rod for side mounting
H = Rod with flat end, inner Ø10 mm
I = Rod with flat end, inner Ø12 mm
L* = Rod with inner Ø12 mm
M* = Rod with inner Ø 20 mm
*compatible with **CNOMO** standard

**6 ROD ORIENTATION**
X = Symmetrical
E* = East
O* = West
N* = North
S* = South
*only with **"A"** and **"D"** rod style

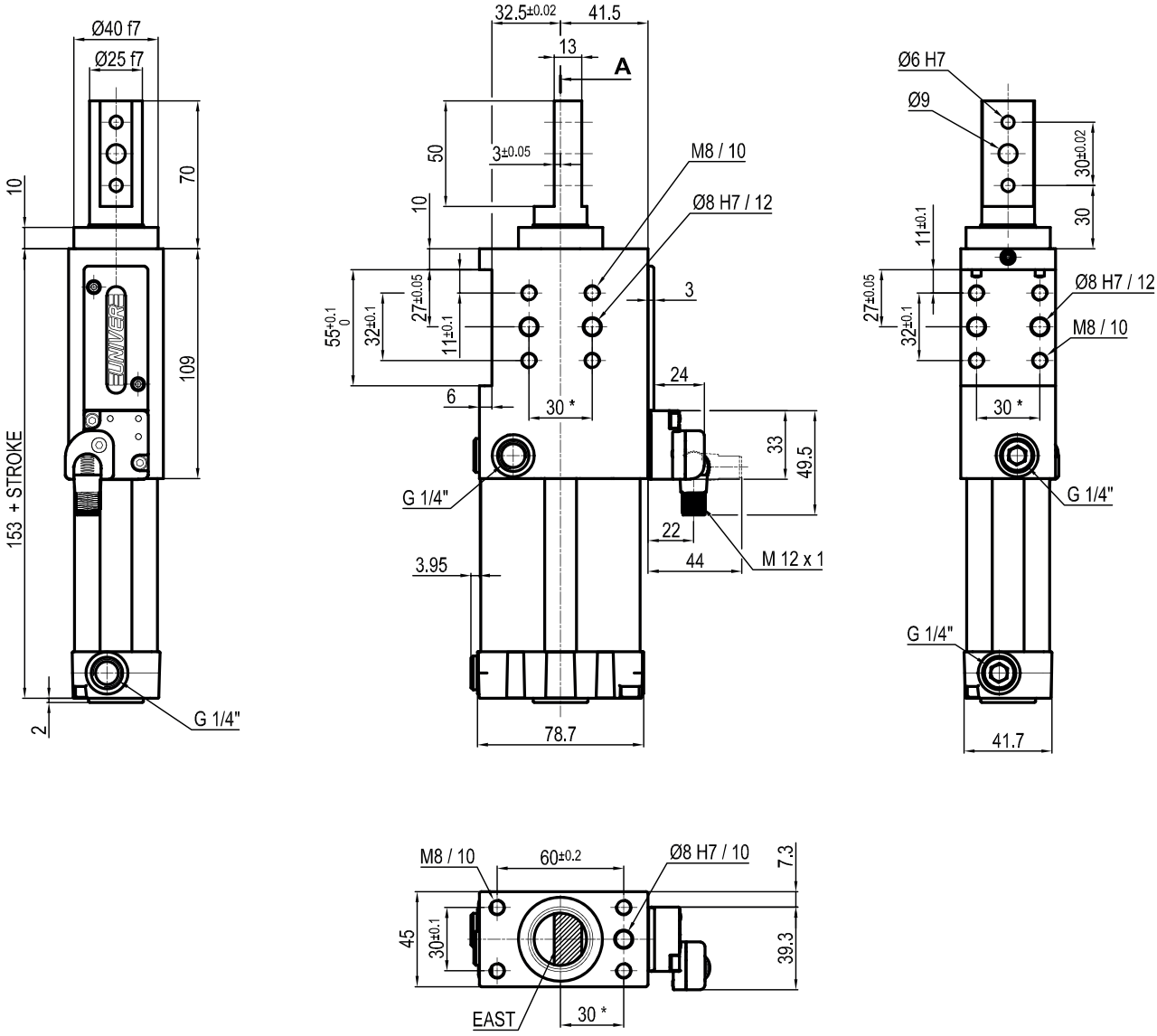
**7 SENSOR**
N = No sensor (with protection plate)
K = Electronic sensor PNP, M12(DF-K)
D = Pneumatic sensor (DF-UPNW)
J = Electronic sensor NPN, optical (DF-J)
Y = Electronic sensor PNP, M12 (DF-Y) white LED

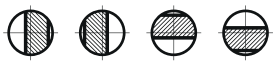
**8 PRODUCT REVISION**
Assigned by UNIVER

**9 ATEX**
X = ATEX option
See ATEX Catalogue for types and versions

## A | Rod for offset pins

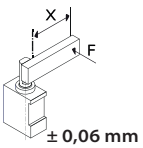




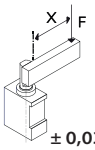
**East** **West** **North** **South**

**TOLERANCE BETWEEN DOWELS ± 0,02 BETWEEN SCREW HOLES ± 0,1*




**± 0,06 mm**

Max. Torque
6 Nm
X = 100 mm




**± 0,03 mm**

Max. deflection
moment 7,5 Nm
X = 100 mm

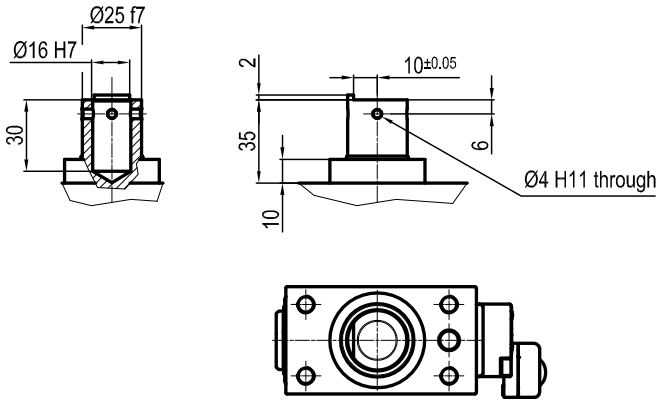
## Sensors



Electronic (optical)

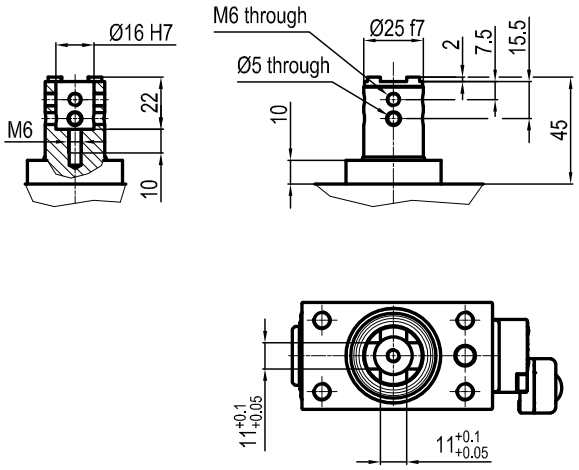
**DF-K** PNP M12
**DF-J** NPN M12
**DF-Y** PNP M12 White LED

## B | Rod with profiled end



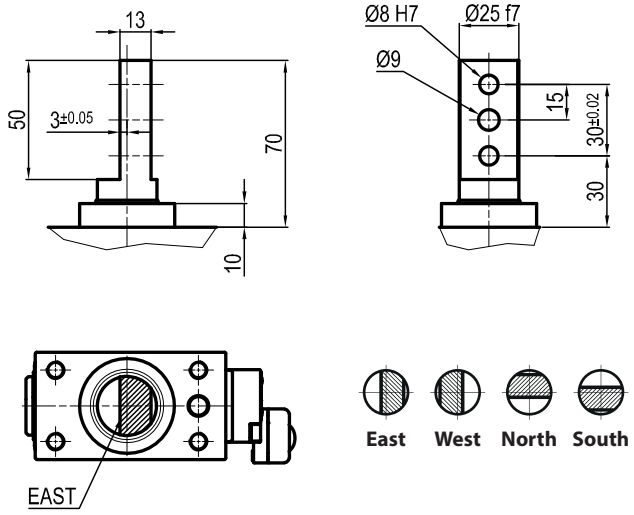

## C | Rod with cross-profiled end

Inner Ø16 mm

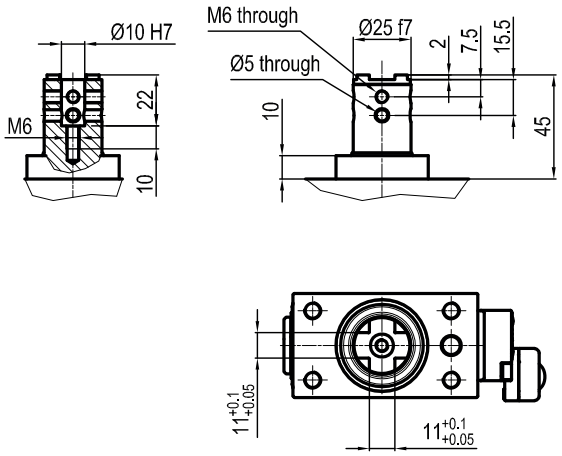



## D | Rod for offset pins

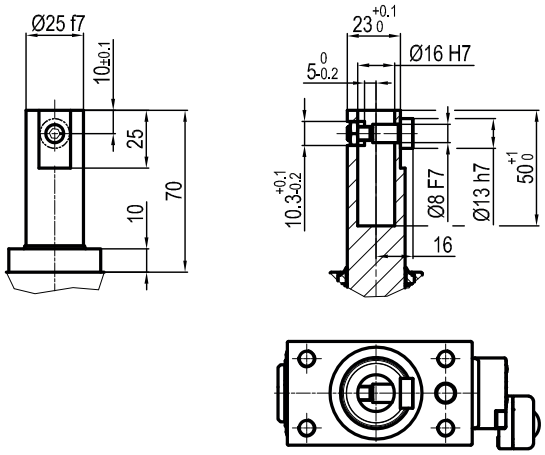
Oversized dowel holes



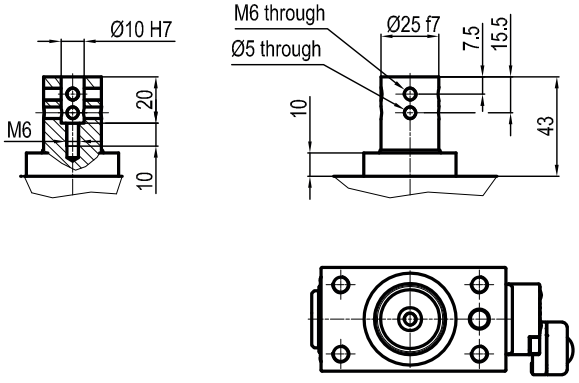
## E Rod with cross-profiled end
Inner Ø10 mm



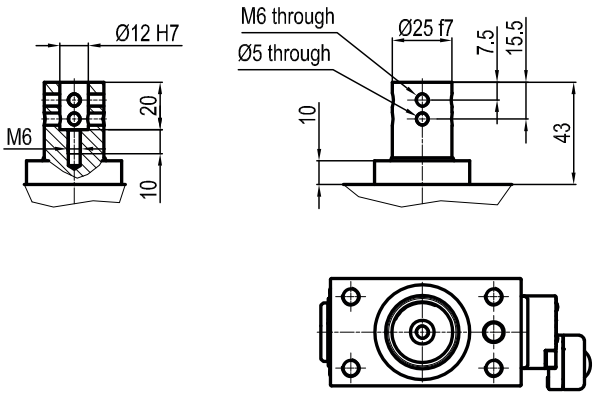

## F Compatible with NAAMS
Inner Ø16 mm



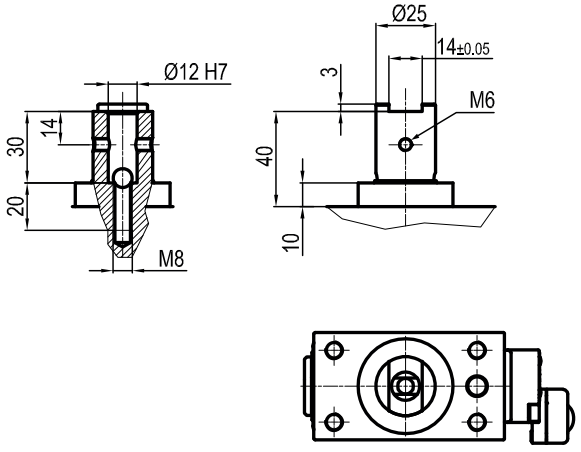

## H Rod with flat end
Inner Ø10 mm



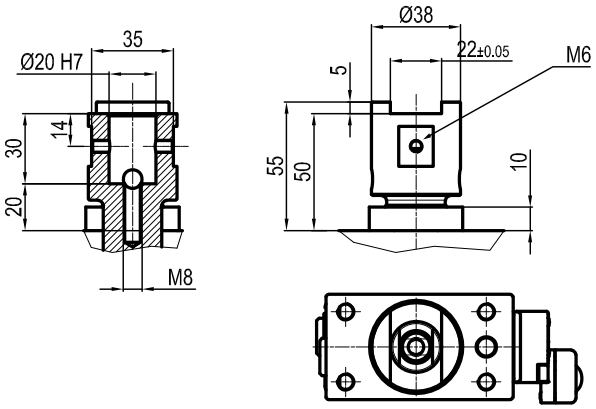
## I Rod with flat end
Inner Ø12 mm




## L Rod compatible with CNOMO standard
Inner Ø12 mm




## M Rod compatible with CNOMO standard
Inner Ø20 mm



# ULR 63

Compact pneumatic retractable locating pin unit, single rod, Ø63 mm



Compact pneumatic retractable pin unit, single rod, typically used in welding applications to locate metal sheets in a definite position.

- Metal rod scraper
- Antirotation system
- Double guide to avoid backlash
- Compact dimensions
- Electronic or pneumatic sensor
- Many rod end styles available



## CHARACTERISTICS

| | |
|---|---|
| Operating temperature | **5° ÷ 45° C** |
| Min./Max. operating pressure | **0,4 / 0,6 MPa** |
| Bore Ø | **63 mm** |
| Max Pull force (0,5 MPa) | **1430 N** |
| Max Push force (0,5 MPa) | **1530 N** |
| Max. Torque (6 Nm) | **± 0,06 mm** |
| Max. Deflection (7,5 Nm) | **± 0,03 mm** |
| Weight | **3,2 Kg** |
| Pneumatic supply ports | **G 1/4** |
| Sensor | **electronic (optical)** |
| Supply voltage | **10 ÷ 30 Vdc** |
| IP code | **IP 65** |

OPTICAL SENSOR

LIGHTWEIGHT

COMPACT

METAL SCRAPER

DOUBLE GUIDE

ANTI ROTATION

## CODIFICATION KEY

| UL | R | 63 | 040 | C | X | K | 0 | | |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |

**1 SERIES**
UL = UNICLAMP locating pin unit

**2 VERSION**
R = Pneumatic, single rod

**3 SIZE**
63 = Ø63 mm

**4 STROKE**
015 = 15 mm
025 = 25 mm
040 = 40 mm
050 = 50 mm
060 = 60 mm

**5 ROD END STYLE**
A = Rod for offset pins
B = Rod with profled end
C = Rod with cross-profiled end inner Ø 16 mm
D = Rod for offset pins with oversized dowel holes
E = Rod with cross profiled end inner Ø 10 mm
F = Compatible with NAAMS, inner Ø 16
H = Rod with flat end, inner Ø10 mm
I = Rod with flat end, inner Ø12 mm
L* = Rod with inner Ø12 mm
M* = Rod with inner Ø 20 mm
*compatible with **CNOMO** standard

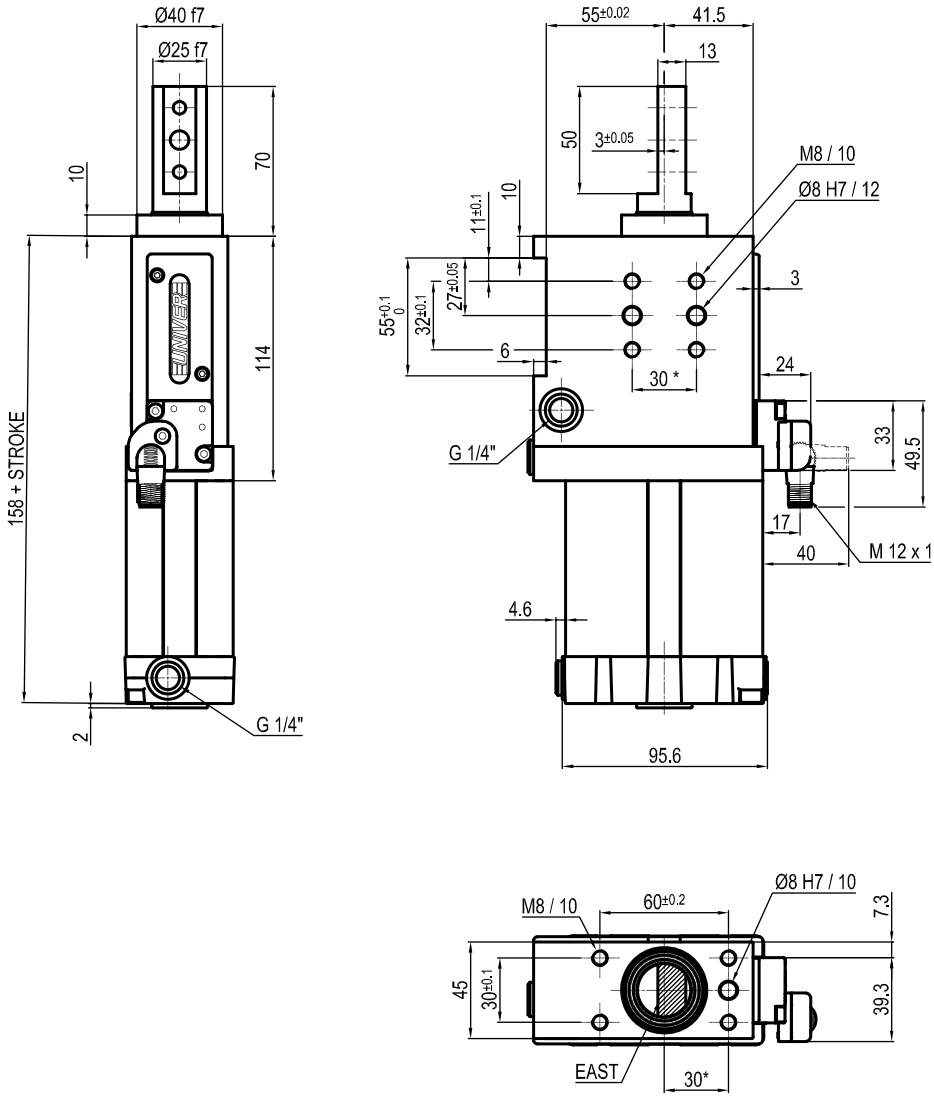
**6 ROD ORIENTATION**
X = Symmetrical
E* = East
O* = West
N* = North
S* = South
*only with **"A"** and **"D"** rod style

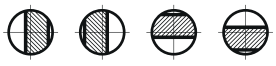
**7 SENSOR**
N = No sensor (with protection plate)
K = Electronic sensor PNP, M12 (DF-K)
J = Electronic sensor NPN, optical (DF-J)
Y = Electronic sensor PNP, M12 (DF-Y) white LED

**8 PRODUCT REVISION**
Assigned by UNIVER

**9 ATEX**
X = ATEX option
See ATEX Catalogue for types and versions

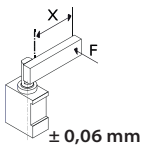
## A | Rod for offset pins



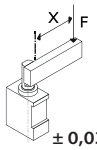
**East** **West** **North** **South**

**TOLERANCE BETWEEN DOWELS ± 0,02 BETWEEN SCREW HOLES ± 0,1*




**± 0,06 mm**

Max. Torque
6 Nm
X = 100 mm




**± 0,03 mm**

Max. deflection
moment 7,5 Nm
X = 100 mm

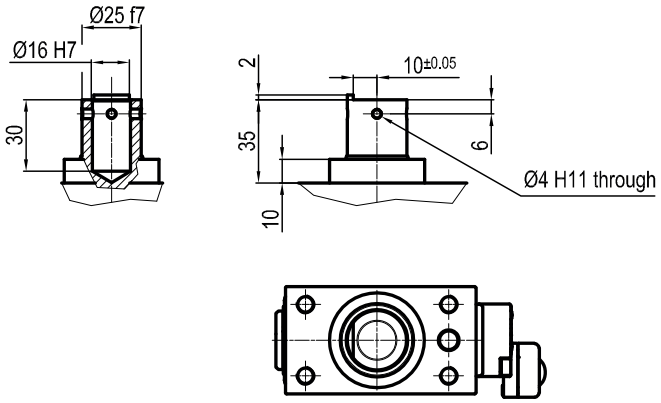
## Sensors



Electronic (optical)

**DF-K** PNP M12
**DF-J** NPN M12
**DF-Y** PNP M12 White LED

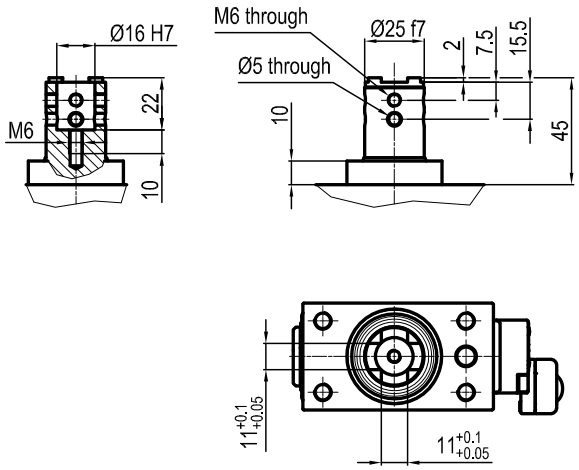
## B | Rod with profiled end





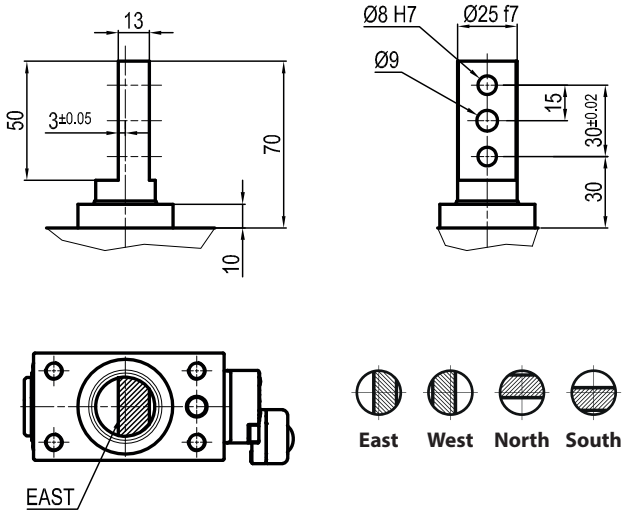

## C | Rod with cross-profiled end

Inner Ø16 mm

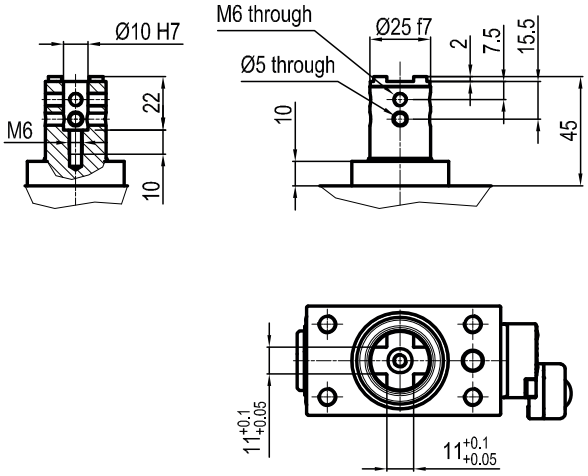



## D | Rod for offset pins

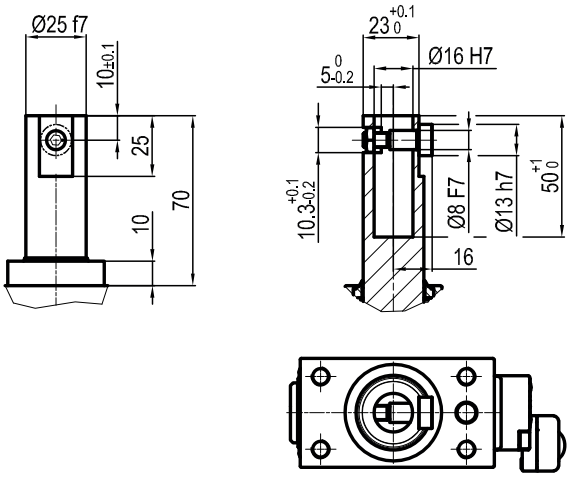
Oversized dowel holes



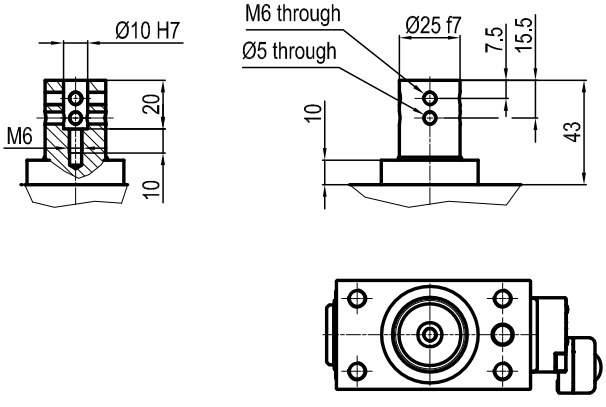
## E Rod with cross-profiled end
Inner Ø10 mm



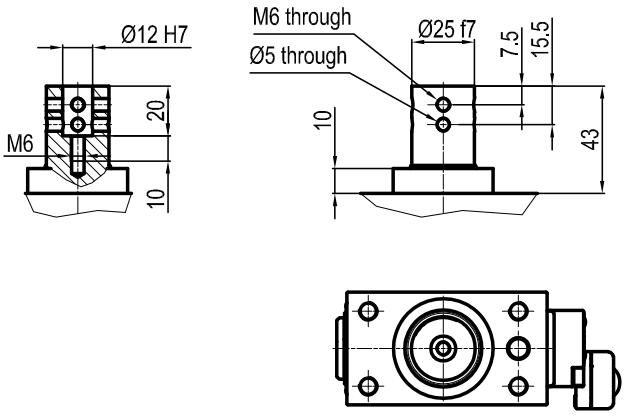

## F Compatible with NAAMS
Inner Ø16 mm




## H Rod with flat end
Inner Ø10 mm

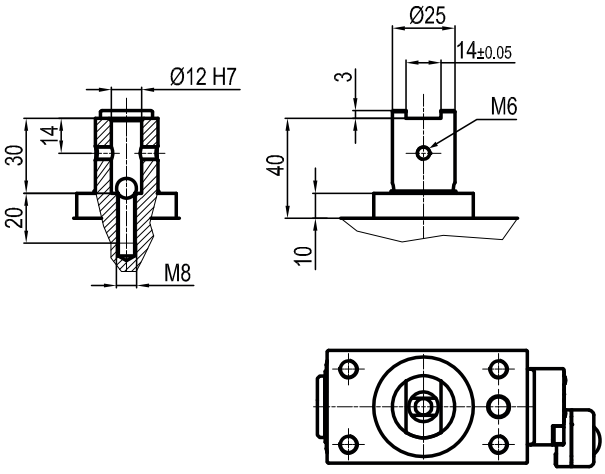


## I Rod with flat end
Inner Ø12 mm






## L Rod compatible with CNOMO standard
Inner Ø12 mm




## M Rod compatible with CNOMO standard
Inner Ø20 mm

