## **PNEUMATIC LOCATING PIN UNITS**

Pneumatic retractable locating pin unit, typically used in welding applications to locate metal sheets in a definite position. Available version with hand lever and toggle-joint mechanism

- Metal rod scraper on single shaft only
- Antirotation system
- Electronic sensor with M12 swivel connector or pneumatic sensor







#### **COMPACT SIZE 32**

Pneumatic pin unit with very compact overall dimensions

- Pneumatic with side or rear sensor Ø32 mm

#### SINGLE AND DOUBLE ROD

Standard range of pin units offering many version combinations with single or double rod and equipped with hand lever for manual operations

- Pneumatic Ø40-50-63 mm
- Pneumatic with hand lever Ø50 mm
- Manual 50 mm
- Wide range of shaft-ends

#### IRREVERSIBLE

Pin units equipped with toggle-joint mechanism to maintain the position even with lack of air

- Single and double rod Ø40-50 mm
- With hand lever Ø40-50 mm



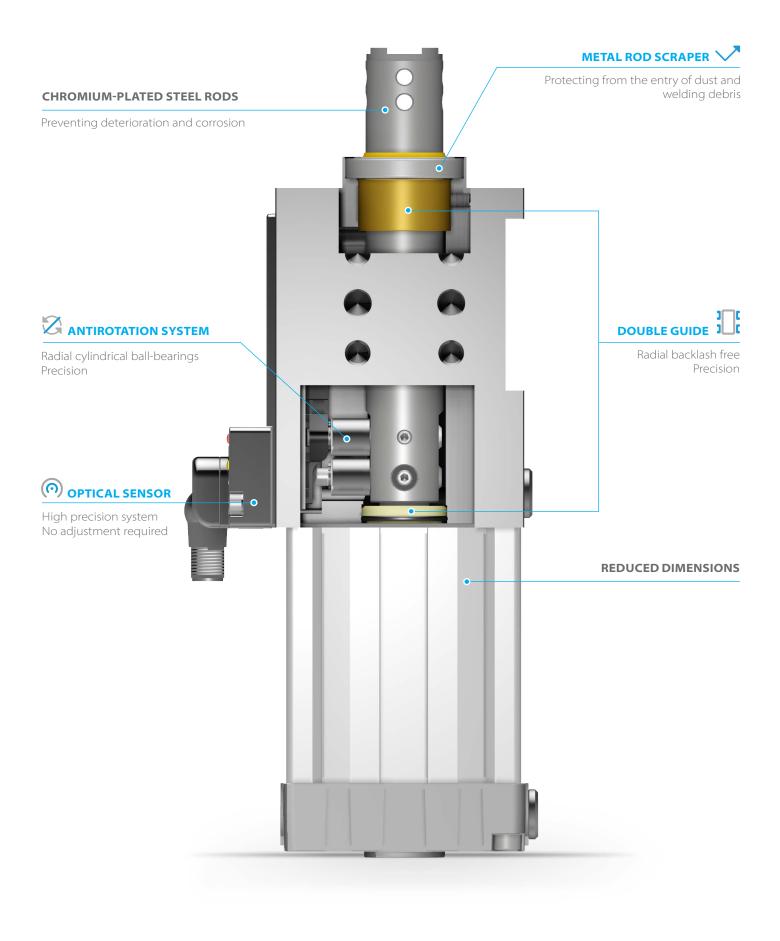
### **CNOMO** STANDARD

Pin unit construction meeting CNOMO Standard

- Single rod Ø50-63 mm
- With hand lever Ø50 mm

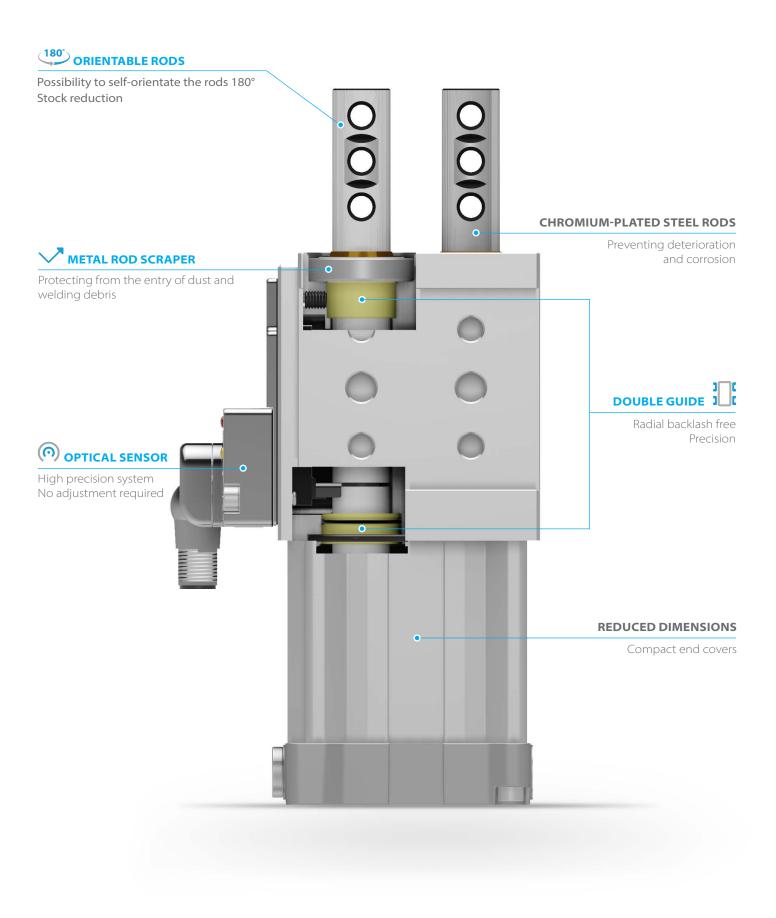
### **LOCATING PIN UNITS** FEATURES

### SINGLE ROD VERSION





### DOUBLE ROD VERSION

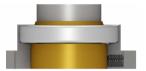


### LOCATING PIN UNITS FEATURES

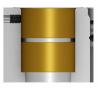
### **IRREVERSIBLE** VERSION











### METAL ROD SCRAPER

To prevent dust and welding debries entering the unit body, each piston rod is equipped with a metal rod scraper

### ANTIROTATION SYSTEM

Radial cylindrical ball-bearings enable the shaft not to rotate axially and guarantee positioning precision

### **DOUBLE GUIDE**

Internal piston rod double guide assures zero radial backlash and positioning precision

### ORIENTABLE RODS

The piston rods on double rod models are 180° orientable by the user to offer installation flexibility and stock reduction



### IRREVERSIBLE

Models equipped with the UNIVER original toggle-joint mechanismguarantee irreversibility of the extended piston rod and high thrust force

Irreversible even with lack of air and without external stops



### **OPTICAL** SENSOR

Fully metal body

One single sensor for the whole range of products

IP67 protection

M12 swivel connector (0-90°)

High precision

No set up

Two-parts design: electronic part outside the unit (available as spare

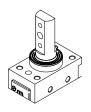
part), optical part inside the unit (no touch point)

Insensitive to high magnetic fields, typical of new and modern welding systems like aluminium welding

Industry-recognized, tested and proven sensor

### LOCATING PIN UNITS RODS









Profiled end







Cross-profiled Ø16



NAAMS COMPATIBLE Ø16



CNOMO Ø12

Oversized dowel holes



Flat Ø10



FLAT Ø12



CNOMO Ø20





ROD FOR OFFSET PINS 2 SCREWS - 1 DOWEL



ROD FOR OFFSET PINS (ROD PLANE MATCHING BODY MIDDLE AXIS) 2 SCREWS - 1 DOWEL



ROD FOR OFFSET PINS 1 SCREW - 2 DOWELS



ROD FOR OFFSET PINS (ROD PLANE MATCHING BODY MIDDLE AXIS) **1 SCREW - 2 DOWELS** 

### **COMPLEMENTARY** PRODUCTS



### **PNEUMATIC** SENSOR

Compact design Fully metal body Easy to be replaced One-piece construction



### HAND LEVER

Ergonomic design Welding debris resistant

### UNICLAMP



## OPTICAL SENSOR



ANTI ROTATION

# **ULL 50**

Manual retractable locating pin unit, Ø50 mm with hand lever

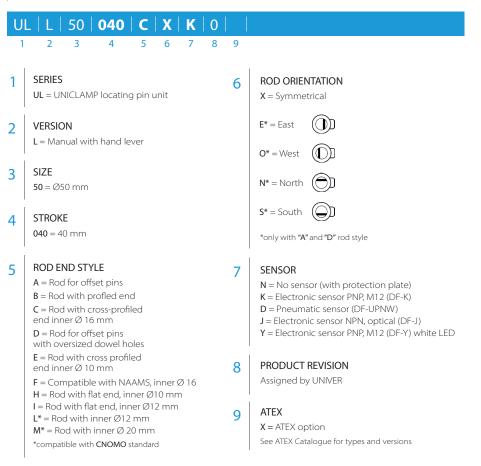
Manual retractable locating pin unit, single rod, with hand lever typically used in welding applications to locate metal sheets in a definite position.

- Metal rod scraper
- Antirotation system
- Electronic sensor
- Many rod end styles available
- Ergonomic hand lever

#### CHARACTERISTICS

Operating temperature	5° ÷ 45° C
Bore Ø	50 mm
Max. Torque (6 Nm)	± 0,06 mm
Max. Deflection (7,5 Nm)	± 0,03 mm
Weight	2,5 Kg
Sensor	electronic (optical)
Supply voltage	10 ÷ 30 Vdc
IP code	IP 65

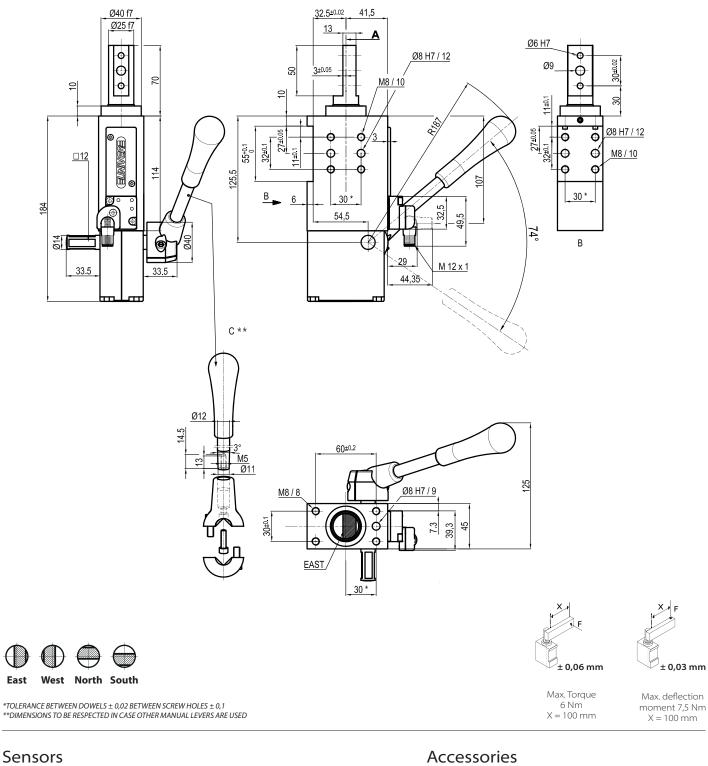
#### CODIFICATION KEY





#### Rod for offset pins

Α



3

### Sensors



Electronic (optical)

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

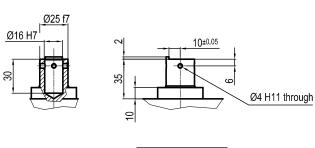


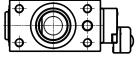
Pneumatic

DF-UPNW



### **B** Rod with profiled end

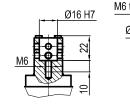


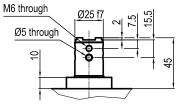


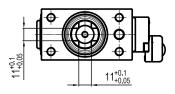
С

D

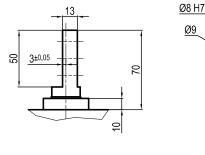
### Rod with cross-profiled end ${\sf Inner\,}{\varnothing}{\sf 16\,mm}$

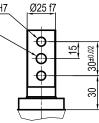


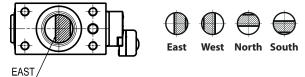




Rod for offset pins Oversized dowel holes





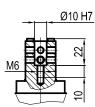


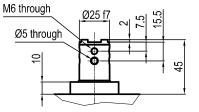


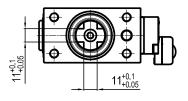


Rod with cross-profiled end

E





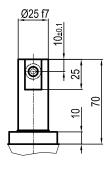


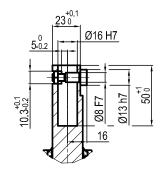
### Compatible with NAAMS

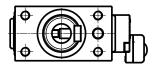
Inner Ø16 mm

F

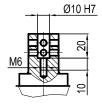
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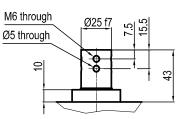


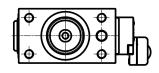




Rod with flat end

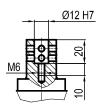


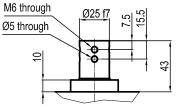


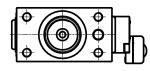




Rod with flat end







3

