

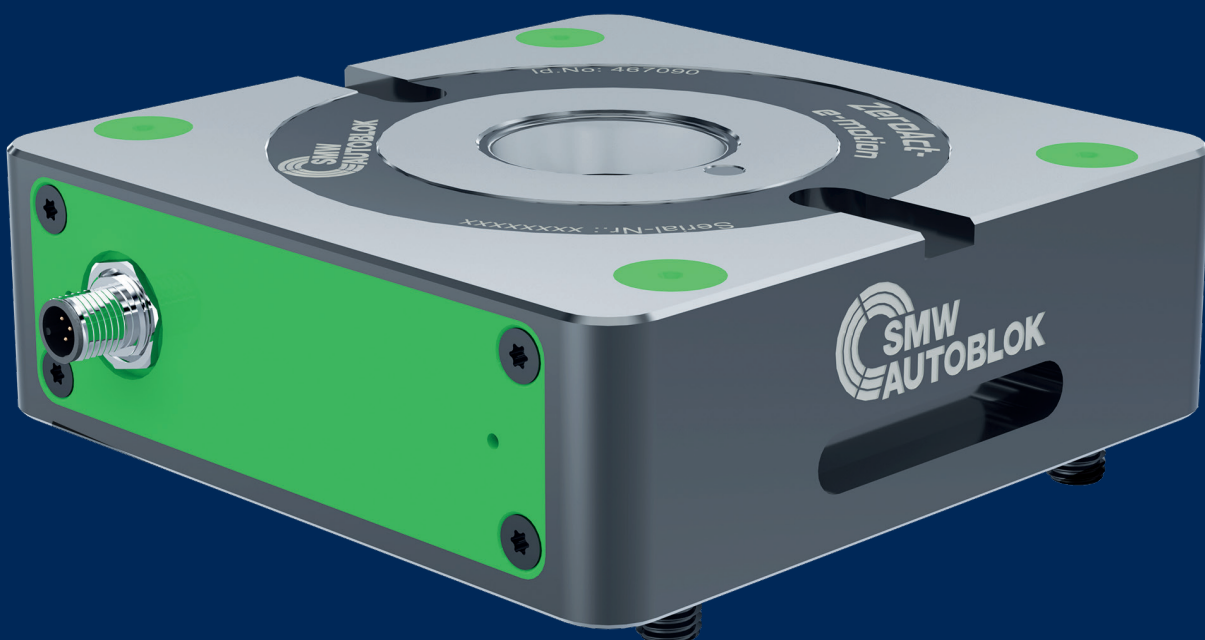
ZeroAct *e-motion* **MECHATRONIC ZERO POINT SYSTEM**

FLEXIBLE

Suitable for standard APS / WPS / ZeroAct pins
Fully industry 4.0 capable

ELECTRIC

Electronic contact free part detection
All safety systems integrated



ZeroAct e-motion

Electromechanic zero point system

- Mechatronic actuation
- Safety sensors integrated
- e-sensing for inductive workpiece detection



Application/customer benefits

- Mechatronic actuation
- Safety sensors integrated
- Can be automated
- e-sensing: inductive workpiece detection
- 100% electric, ideal for measuring machines and clean room applications
- Large Z-travel due to flat design (48 mm)
- High flexibility as the clamping bolts are compatible with APS / WPS / ZeroAct
- Mechanical self-locking in the clamped position
- Orientation keyways

Technical features

- Pull-down force 15 kN
- Repeatability < 5 µm
- Holding force 35 / 50 / 75 kN (M10 / M12 / M16) depending on thread of clamping pin
- 2 holding slides for maximum hold while clamping
- Connection M12 x 1 8 - pole for power and signals
- **proofline®** = fully sealed - low maintenance

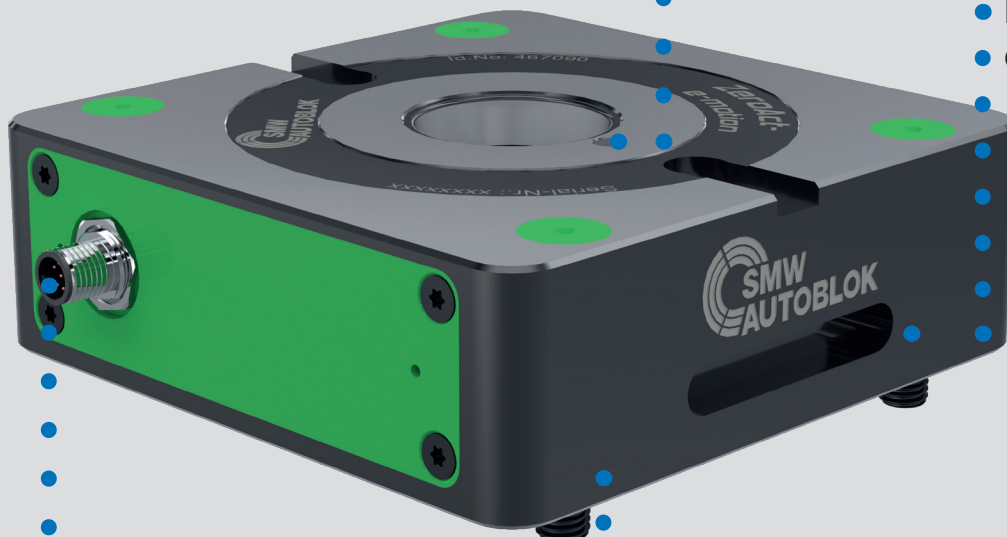
ZeroAct e-motion

CLAMPING PLATE

Clamping bolts (suitable to
APS / WPS / ZeroAct)

- e-sensing: inductive
workpiece detection

- Integrated
control unit

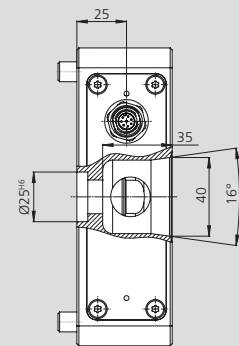
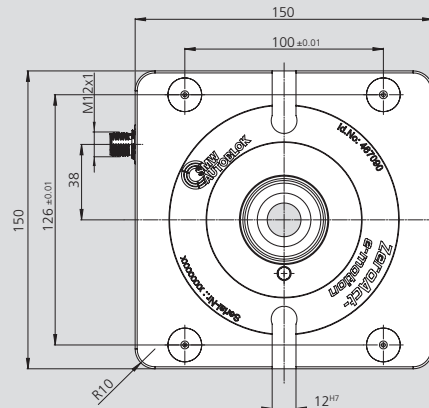
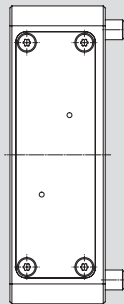
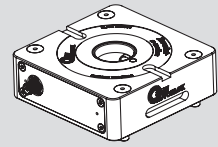
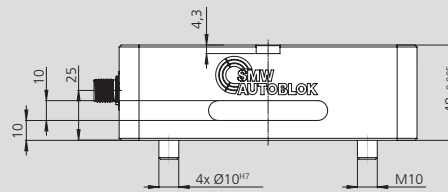
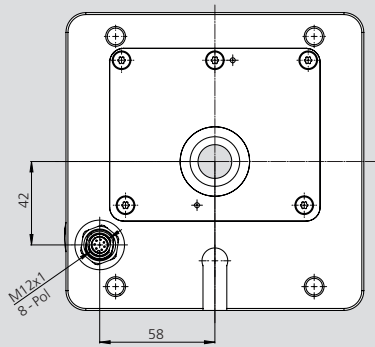


Connection for
power + signals
from the side
or from bottom

- Sensoric for signals
„clamped“ or „unclamped“

Dimension and technical data

Option: Connection for power + signals from bottom



Subject to technical changes.
For more detailed information please ask our customer service.

SMW-AUTOBLOK Type

ZeroAct e-motion

Id. No.

467090

Pull-down force

kN

15

Repeatability

mm

< 0.005

Holding force clamping pin M10

kN

35

Holding force clamping pin M12

kN

50

Holding force clamping pin M16

kN

75

Weight

kg

7

Current consumption / voltage

2A

Pin 1

+ 24 VDC (2A)

Pin 2

GND

Pin 3

n.c.

Pin 4

Stet to unclamp

Pin 5

Set to clamp

Pin 6

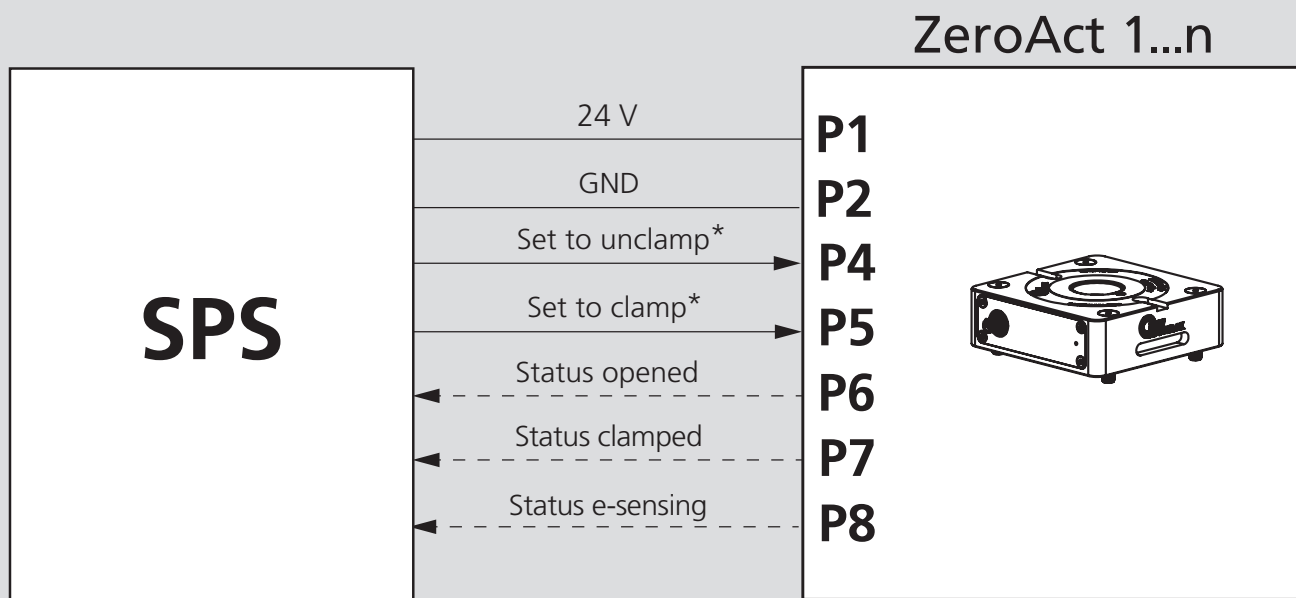
Status opened

Pin 7

Status clamped

Pin 8

Status e-sensing

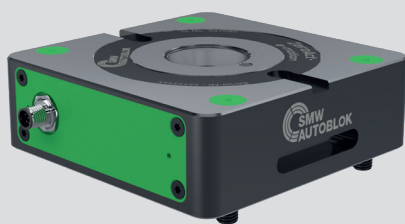


* Control unit 24 V

Overview signals

Pin	P6	P7	P8
ZeroAct opened	24 V	-	-
ZeroAct closed	-	24 V	-
ZeroAct in clamping movement / process	-	-	-
Not permitted	24 V	24 V	-
e-sensing (inductive workpiece detection)	-	-	24 V

Plug & Play



Zero Act e-motion



Integrated control

Clamping bolt 1-piece



Typ A

Typ B

Typ C

Application/customer benefits

- Fixing and positioning on the ZeroAct *e-motion* clamping systems
- Wear resistant due to extra hard protective coating
- Large infeed radii for easy and safe loading

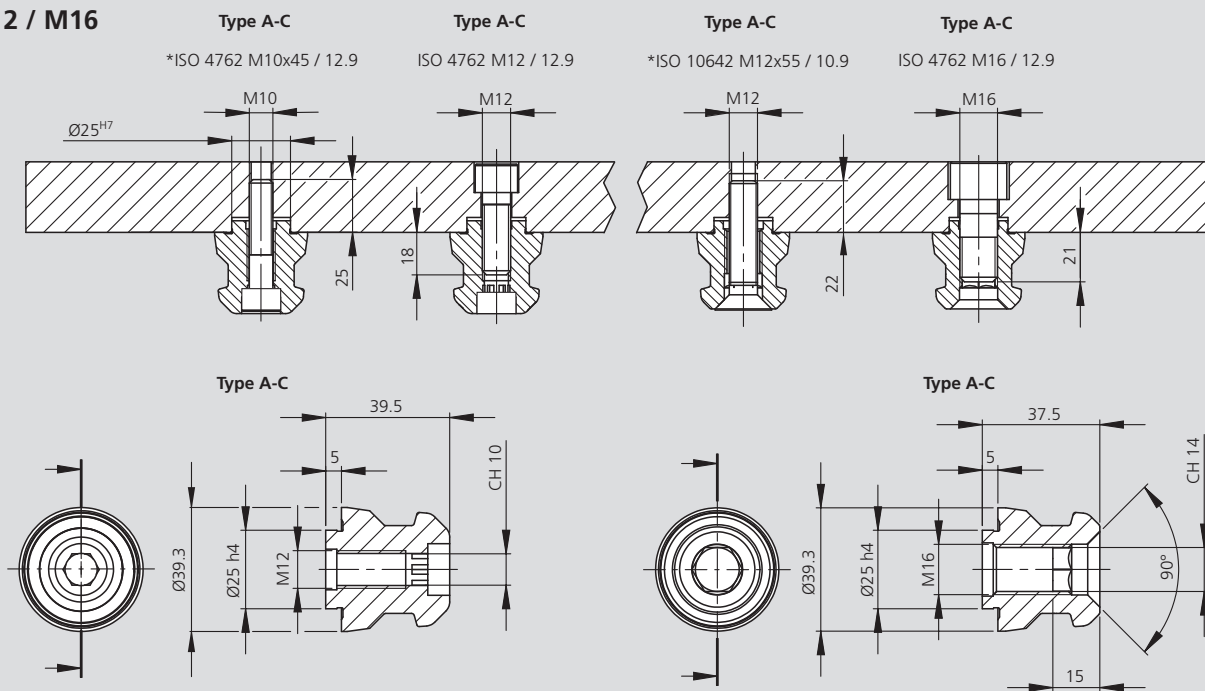
Technical features

- Centering bolt type A (standard)
- Sword bolt type B (positioning pin)
- Clamping bolt type C (with centering clearance 0.1 mm)

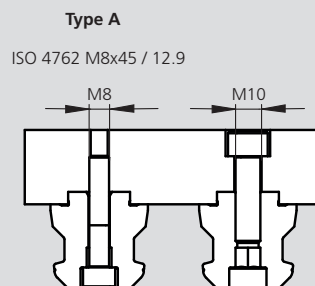
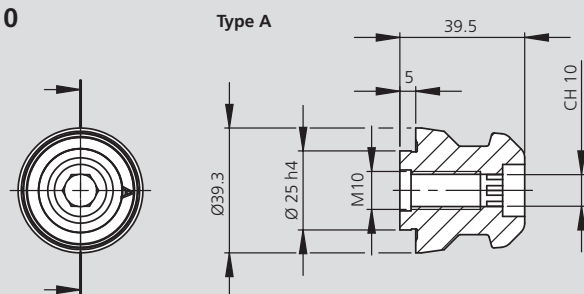
Scope of delivery

Clamping bolt with fixing screw

M12 / M16



M10



Subject to technical changes. For more detailed information please ask our customer service.

Order numbers

Type	Thread	Type A Id. No.	Type B Id. No.	Type C Id. No.	Weight [kg]
Clamping bolt ZeroAct <i>e-motion</i>	M10 / 12.9	467008	on request	-	0.3
Clamping bolt ZeroAct <i>e-motion</i>	M12 / 12.9	46162355	on request	46162357	0.3
Clamping bolt ZeroAct <i>e-motion</i>	M16 / 12.9	46162455	on request	46162457	0.3

Notes

Notes

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