

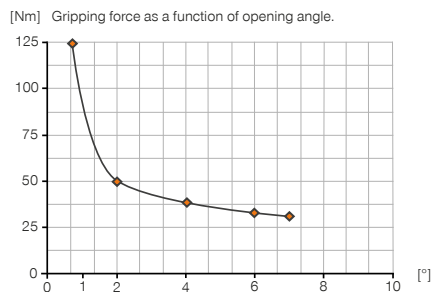
# CUTTING TONGS

## INSTALLATION SIZE ZK22

### ▶ PRODUCT SPECIFICATIONS



#### ▶ Gripping moment diagram



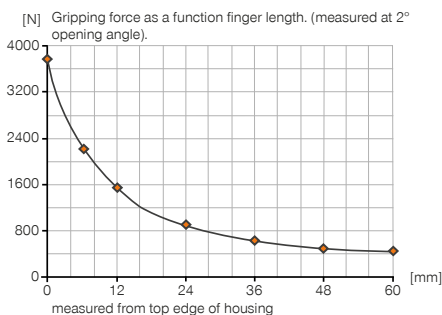
#### ▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	20
My [Nm]	30
Fa [N]	600

#### ▶ Gripping force diagram



### ▶ RECOMMENDED ACCESSORIES



#### GRIPPING COMPONENTS



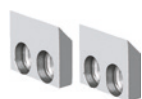
**UB22**  
Universal jaw set steel



**BK22**  
Cutter mounting set



**BK22-1**  
Cutter set with double ground cutting edge



**BK22-2**  
Cutter set with single ground cutting edge



**BK22-3**  
Cutter set with shearing blades



#### ENERGY SUPPLY



**GVM5**  
Straight Fittings - Quick Connect Style



**WVM5**  
Angled Fittings - Quick Connect Style



#### SENSORS



**KB3**  
Mounting block



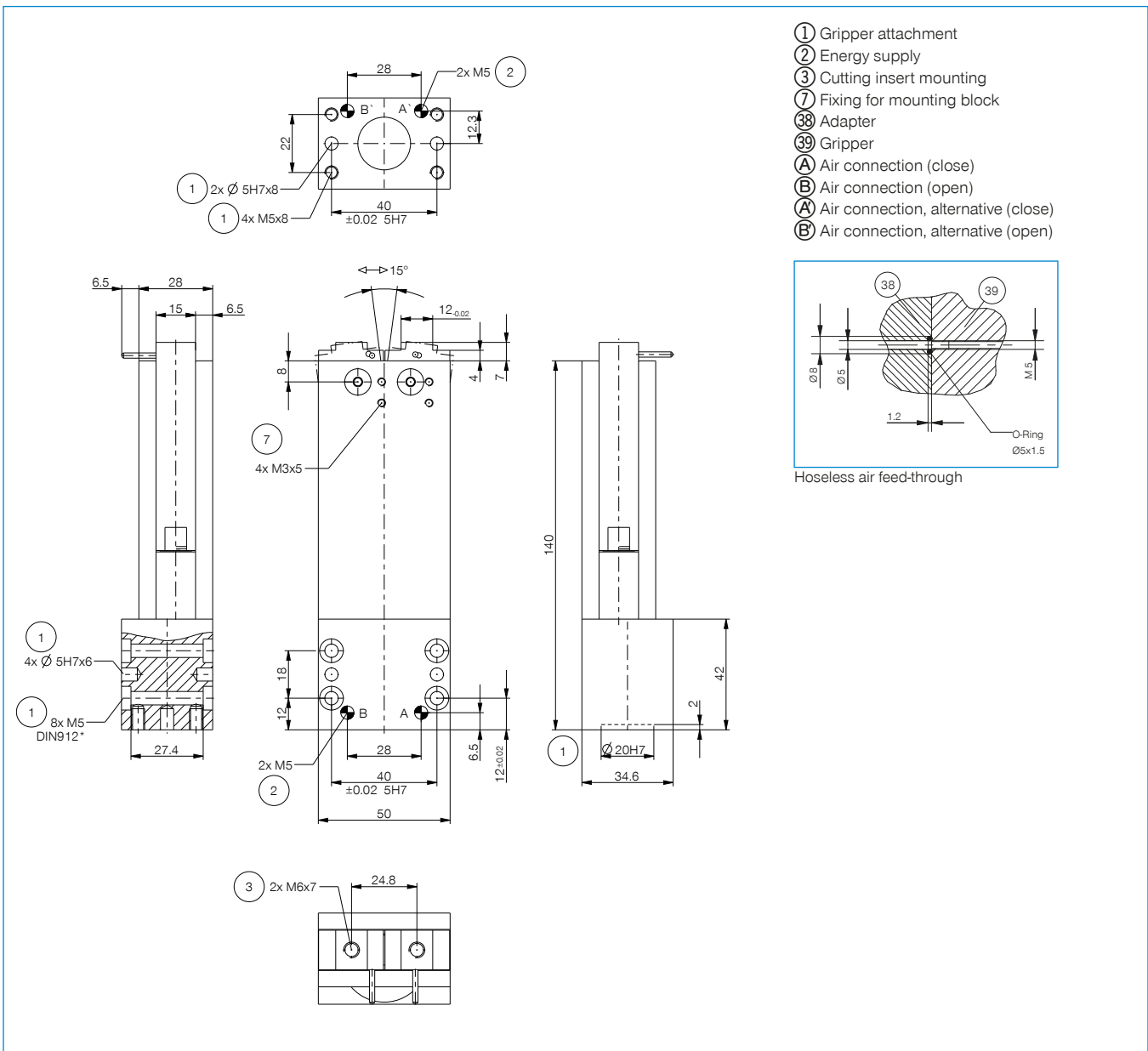
**NJ3-E2**  
Inductive proximity switch - Cable 5 m



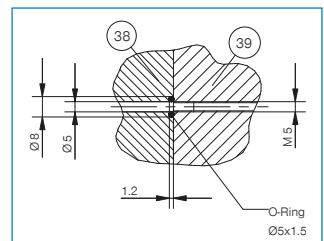
**NJ3-E2SK**  
Inductive Proximity Switch Cable 0,3 m - Connector M8

Order no.	ZK22
Stroke per jaw [°]	7.5
Gripping moment in closing [Nm]	54
Gripping force in closing [N]	3600
Closing time [s]	0.15
Opening time [s]	0.15
Repetition accuracy +/- [mm]	0.1
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Nominal operating pressure [bar]	6
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm <sup>3</sup> ]	10
Weight [kg]	0.8

► Technical data



- ① Gripper attachment
- ② Energy supply
- ③ Cutting insert mounting
- ⑦ Fixing for mounting block
- ③⑧ Adapter
- ③⑨ Gripper
- Ⓐ Air connection (close)
- Ⓑ Air connection (open)
- Ⓐ Air connection, alternative (close)
- Ⓑ Air connection, alternative (open)



Hoseless air feed-through



# CUTTING TONGS

## SERIES ZK

### ▶ PRODUCT ADVANTAGES



#### ▶ Flat structure

Reduces the interference contours and enables simple integration into your machine design

#### ▶ Decide for yourself!

The gripper jaw holder provides the option to adapt standard cutting, gripper jaws or your own design

#### ▶ Failure-free continuous operation

Our uncompromising “Made in Germany” quality guarantees up to 5 million maintenance-free gripping cycles

### ▶ SERIES CHARACTERISTICS

#### Installation size

#### ZKXX



5 million maintenance-free cycles (max.)



Inductive sensor

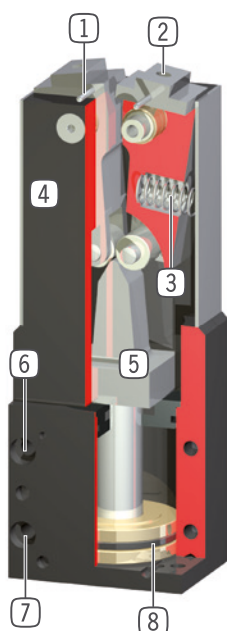


IP40





## ► BENEFITS IN DETAIL



- ① **Switch cam**
  - for position sensing
- ② **Mounting**
  - for individual jaws, knives, chucks and similar
- ③ **Integrated spring**
  - supports jaw return (ZK33)
- ④ **Robust, lightweight housing**
  - Hard-coated aluminum alloy
- ⑤ **Force transfer**
  - via wedge and rollers
- ⑥ **Mounting and positioning**
  - mounting possible from several sides for versatile positioning
- ⑦ **Energy supply**
  - possible from several sides
- ⑧ **Drive**
  - double-acting pneumatic cylinder

## ► TECHNICAL DATA

	Stroke	Gripping moment	Weight	IP class
Installation size	[°]	[Nm]	[kg]	
ZK22	7.5	54	0.8	IP40
ZK33	9	110	2.1	IP40

## ► FURTHER INFORMATION IS AVAILABLE ONLINE



All information just a click away at: [www.zimmer-group.com](http://www.zimmer-group.com). Find data, illustrations, 3D models and operating instructions for your installation size using the order number for your desired product. Quick, clear and always up-to-date.