

CUTTING TONGS

SERIES ZK1000

▶ PRODUCT ADVANTAGES



▶ Extremely lightweight

This light weight generally allows the use of a smaller moving axis, reducing the overall costs of the application in the process

▶ Integrated magnetic field sensing

One of the few cutting tongs on the market that can have its position queried and transferred to the control system with process reliability

▶ Decide for yourself!

Sprue or steel wire: The variety of cutting geometries and materials ensure you always find the correct cuttings

▶ SERIES CHARACTERISTICS

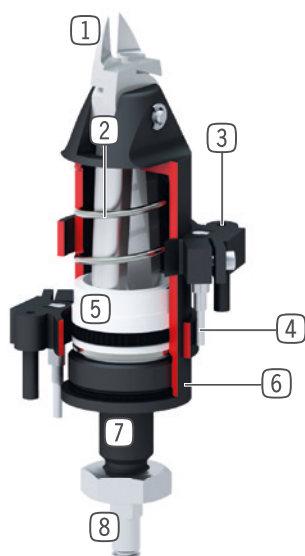
Installation size

ZK10XX

| | |
|--|---|
|  5 million maintenance-free cycles (max.) | ● |
|  Spring opening O | ● |
|  Magnetic field sensor | ● |
|  IP30 | ● |



► BENEFITS IN DETAIL



- ① **Cutting insert**
 - flexible applicable due to specific cutting geometry
- ② **Return spring**
 - to open the cuttings
- ③ **Mounting clamp**
 - mounting and positioning of magnetic field sensors
- ④ **Magnetic field sensor**
 - for position sensing
- ⑤ **Drive**
 - single-acting pneumatic cylinder
- ⑥ **Housing**
 - Hard-coated aluminum alloy
- ⑦ **Mounting and positioning**
 - via fit, thread and lock nut
- ⑧ **Energy supply**

► TECHNICAL DATA

| Installation size | Stroke [°] | Gripping moment [Nm] | Weight [kg] | IP class |
|-------------------|---------------|-------------------------|----------------|----------|
| ZK1030 | 2.1 | 14 | 0.11 | IP30 |
| ZK1036 | 2.5 | 40 | 0.31 | IP30 |
| ZK1045 | 4.25 | 98 | 0.29 | IP30 |
| ZK1065 | 6.5 | 400 | 0.71 | IP30 |

► FURTHER INFORMATION IS AVAILABLE ONLINE



All information just a click away at: 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.

CUTTING TONGS

INSTALLATION SIZE ZK1045

▶ PRODUCT SPECIFICATIONS



▶ INCLUDED IN DELIVERY



1 [piece]
Locking nut
C093620159

▶ RECOMMENDED ACCESSORIES



ENERGY SUPPLY



GV1-8X8
Straight Fittings - Quick Connect Style



WV1-8X8
Angled Fittings - Quick Connect Style



SENSORS



KHD45
Sensor holder



MFS02-K-KHC-P1-PNP
Magnetic field sensor straight, cable 5 m



MFS02-S-KHC-P1-PNP
Magnetic field sensor straight, cable 0.3 m - M8 connector



CONNECTIONS / OTHER



BK1045-01
Cutting Insert 15° for plastics



BK1045-02
Cutting Insert 40° For Plastics



BK1045-03
Cutting Insert 0° For Plastics

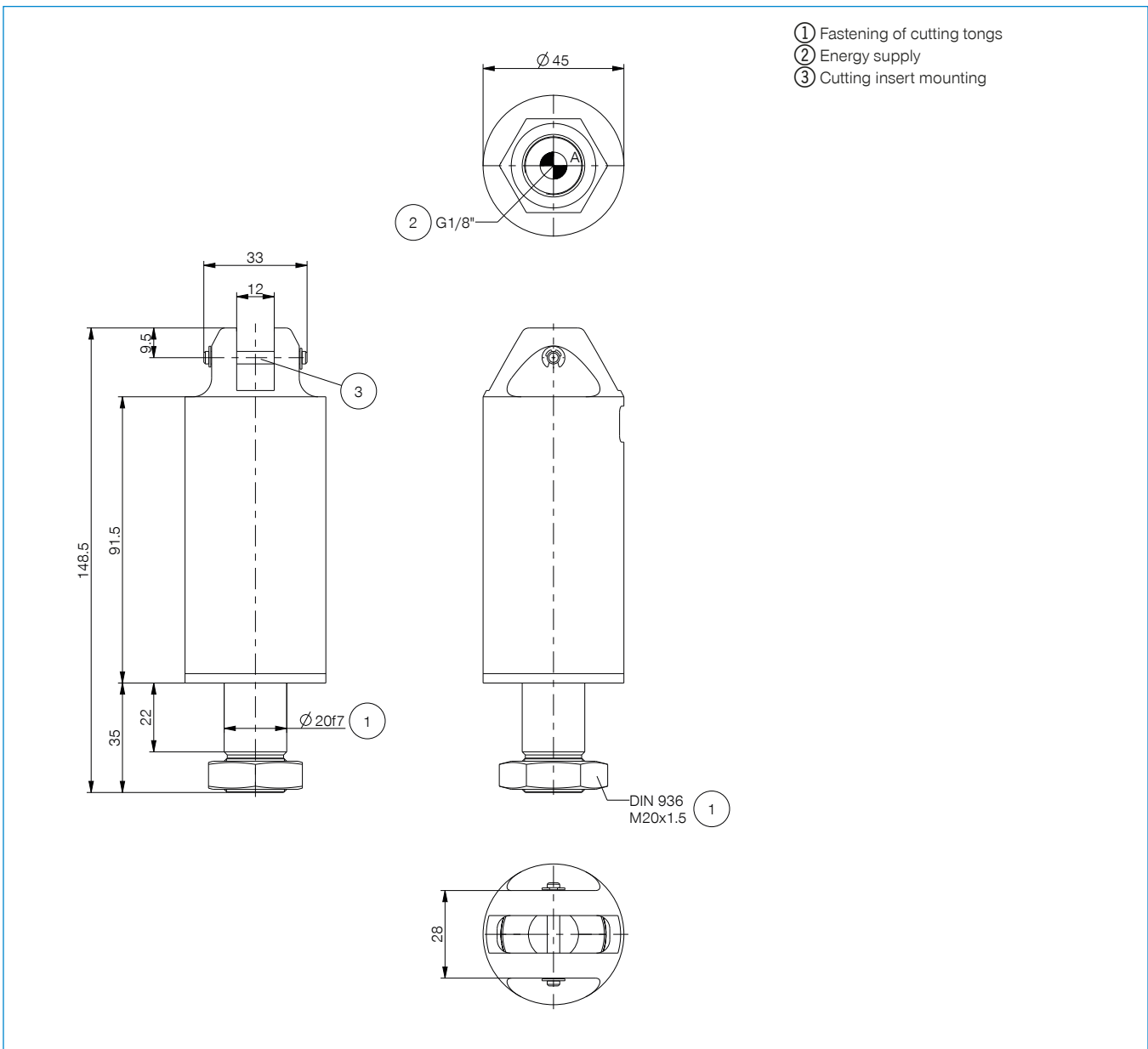


BK1045-04
Cutting Tong For Plastics



BK1045-05
Cutting Insert 0° For Steel

| ► Technical data | |
|---------------------------------------|---------------|
| Order no. | ZK1045 |
| Stroke per jaw [°] | 4.25 |
| Gripping moment in closing [Nm] | 98 |
| Closing time [s] | 0.06 |
| Opening time [s] | 0.2 |
| Operating pressure min. [bar] | 2 |
| Operating pressure max. [bar] | 6 |
| Nominal operating pressure [bar] | 6 |
| Operating temperature min. [°C] | 5 |
| Operating temperature max. [°C] | +80 |
| Air volume per cycle [cm³] | 32 |
| Weight [kg] | 0.29 |
| Possible cutting diameters | |
| possible cut-Ø max. plastics [mm] | 7 |
| possible cut-Ø max. hard-plastic [mm] | 5 |
| possible cut-Ø max. copper [mm] | 2.6 |
| possible cut-Ø max. steel [mm] | 2 |
| possible cut-Ø max. piano wire [mm] | 1 |



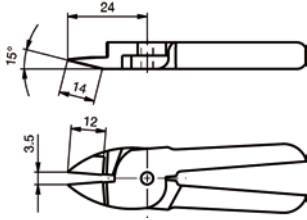
CUTTING TONGS

ZK1000 SERIES CUTTING INSERTS

CUTTING INSERTS FOR ZK1030

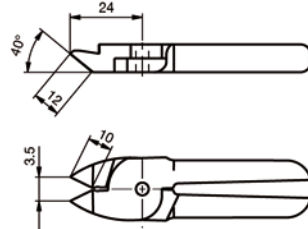
BK1030-01

Cutting Insert 15° for plastics



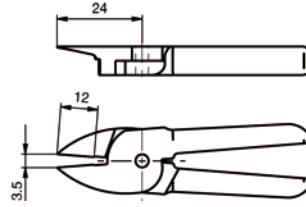
BK1030-02

Cutting Insert 40° For Plastics



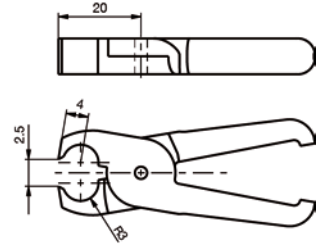
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Cutting Insert 0° For Plastics



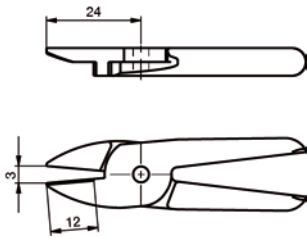
BK1030-04

Cutting Tong For Plastics



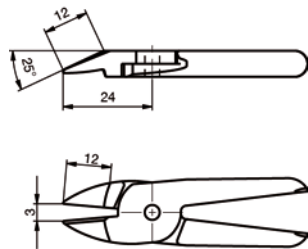
BK1030-05

Cutting Insert 0° For Steel



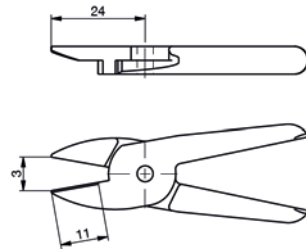
BK1030-06

Cutting Insert 25° For Steel



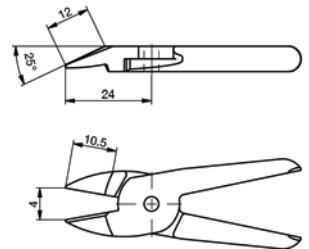
BK1030-07

Carbide cutting insert 0° for steel



BK1030-08

Carbide Cutting Insert 25° For Steel

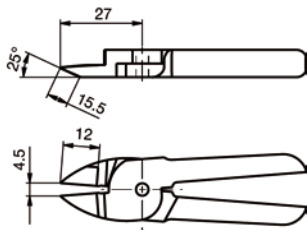


The appropriate cutting insert must be evaluated in terms of function and stability in the end application.

CUTTING INSERTS FOR ZK1036

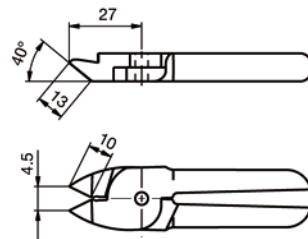
BK1036-01

Cutting Insert 25° For Plastics



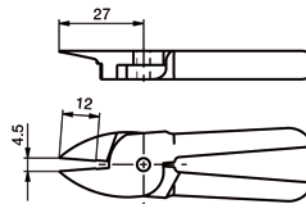
BK1036-02

Cutting Insert 40° For Plastics



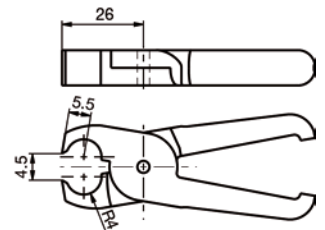
BK1036-03

Cutting Insert 0° For Plastics



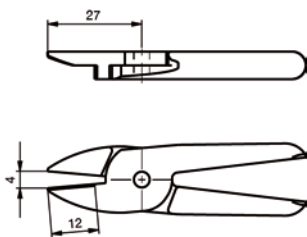
BK1036-04

Cutting Tong For Plastics



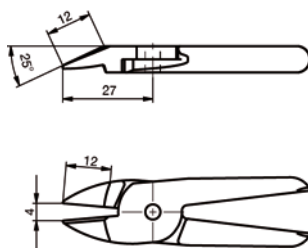
BK1036-05

Cutting Insert 0° For Steel



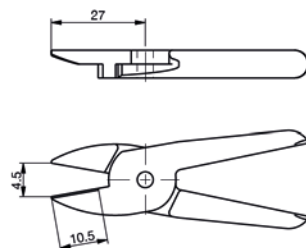
BK1036-06

Cutting Insert 25° For Steel



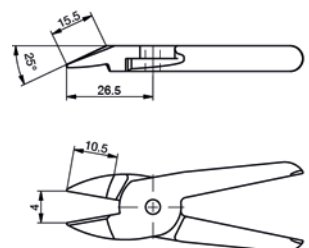
BK1036-07

Carbide cutting insert 0° for steel



BK1036-08

Carbide Cutting Insert 25° For Steel

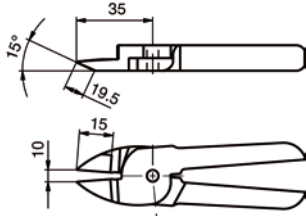


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CUTTING INSERTS FOR ZK1045

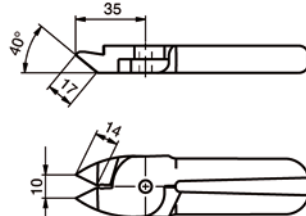
BK1045-01

Cutting Insert 15° for plastics



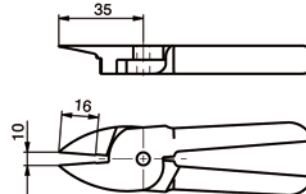
BK1045-02

Cutting Insert 40° For Plastics



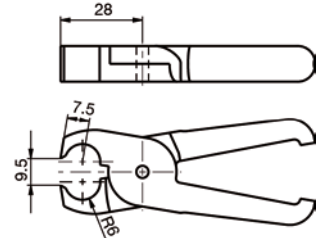
BK1045-03

Cutting Insert 0° For Plastics



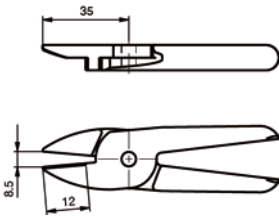
BK1045-04

Cutting Tong For Plastics



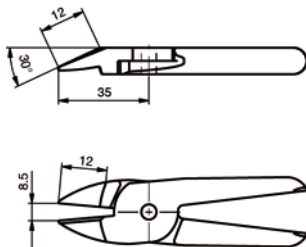
BK1045-05

Cutting Insert 0° For Steel



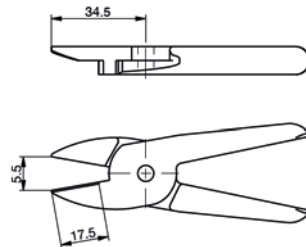
BK1045-06

Cutting Insert 30° For Steel



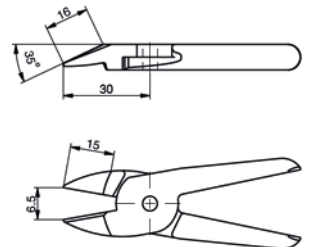
BK1045-07

Carbide cutting insert 0° for steel



BK1045-08

Carbide Cutting Insert 35° For Steel

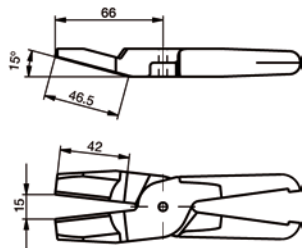


The appropriate cutting insert must be evaluated in terms of function and stability in the end application.

CUTTING INSERTS FOR ZK1065

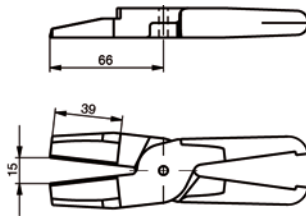
BK1065-01

Cutting Insert 15° for plastics



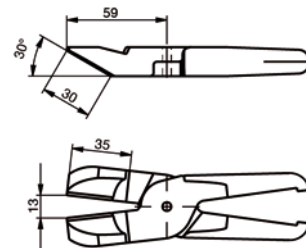
BK1065-02

Cutting Insert 0° For Plastics



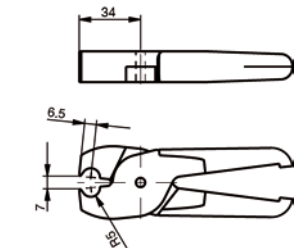
BK1065-03

Cutting Insert 30° For Plastics



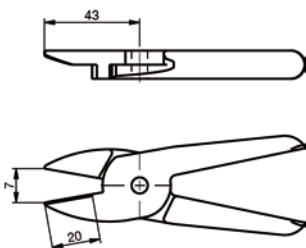
BK1065-04

Cutting Tong For Plastics



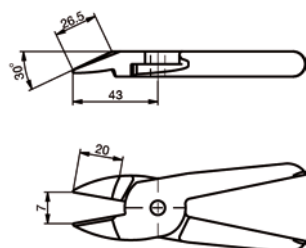
BK1065-05

Cutting Insert 0° For Steel



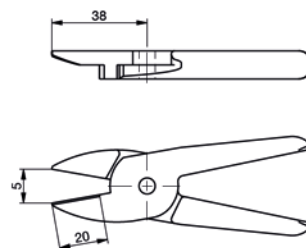
BK1065-06

Cutting Insert 30° For Steel



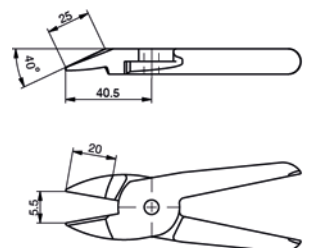
BK1065-07

Carbide cutting insert 0° for steel



BK1065-08

Carbide Cutting Insert 40° For Steel



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