

Wiha Inomic® VDE.

A Good Grip on Everything – Even When Working with Live Components.



product design award

2007



reddot design award winner 2007



Absolutely burr-free metal parts

Head of pliers made of high-quality ball-bearing steel: Hardness up to 60 HRC

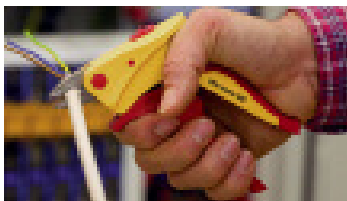
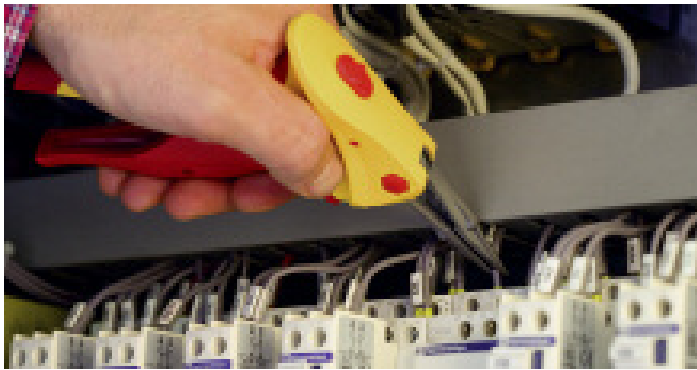
All surfaces of the metal parts are protected against corrosion, also in the joint: optimum protection

Locking mechanism: Pliers should be transported and stored in closed position

Handle with ergonomic soft-grip zone made of thermoplastic elastomer (TPE) in the pressure area around the ball of the thumb

The areas in the arm of the pliers that move and press against each other feature hard plastic: low abrasion

Impact-resistant tool body made of fibre-glass reinforced plastic: Low weight



The relaxed position of the hand when using Inomic® VDE ensures fatigue-free work. Guaranteed with highest electrical safety level.

Safety information:
When working with VDE tools, observe the national safety and accident prevention regulations.



Wiha Inomic® VDE:

- Manufactured as Wiha Inomic® pliers
- Manufactured and tested in accordance with IEC 60900:2004
- For all work on or around electrical components up to 1,000 V AC and 1,500 V DC
- Extensive mechanical and electrical testing for maximum user safety
- Individually tested in water bath at 10,000 volts
- Awarded the GS symbol for tested safety



Combination Pliers.



NEW
Z 01 9 16

Combination Pliers Inomic® VDE.
Insulation up to 1,000 V AC, GS-Mark.

- Standards:** Manufactured acc. to IEC 60900:2004.
- Head shape:** Innovative head with three parallel gripping surfaces at opening angles of 2°, 10° and 20° offers an improved and secure hold of the workpiece. Crosswise-profiled gripping surfaces with specially shaped teeth for gripping in all directions.
- Design:** Head of pliers manufactured in MIM technology. Arms of the pliers move in parallel: +25 % force transfer. Angled shape (23°) for fatigue-free work. With opening spring and locking mechanism.
- Material:** Head of pliers made of ball-bearing steel, hardened to approx. 60 HRC. Handles made of tough fibre-glass reinforced plastic, ergonomic soft grip zone in the handle.
- Application:** For gripping, holding and cutting.
With improved access to the objects to be processed.

Order-No.	Typ	○	●	↵↵	↵
30658 8	180	3.3	2.2	155	5

Needle Nose Pliers and Diagonal Cutters.



NEW
Z 06 9 16

Needle Nose Pliers Inomic® VDE.
Insulation up to 1,000 V AC, GS-Mark.

- Standards:** Manufactured acc. to IEC 60900:2004.
- Head shape:** Straight shape with blade and three stripping points 2.5 mm², 1.5 mm², 0.75 mm². Parallel and crosswise profiling for gripping in all directions.
- Design:** Head of pliers manufactured in MIM technology. Arms of the pliers move in parallel: +25 % force transfer. Angled shape (23°) for fatigue-free work. With opening spring and locking mechanism.
- Material:** Head of pliers made of ball-bearing steel, hardened to approx. 60 HRC. Handles made of tough fibre-glass reinforced plastic, ergonomic soft grip zone in the handle.
- Application:** For gripping, holding, cutting and stripping.
With improved access to the objects to be processed.

Order-No.	Typ	○	●	↵↵	↵
30661 8	160	2.5	1.6	150	5



Fraunhofer Institut
Arbeitswirtschaft und
Organisation

In collaboration with the IAO Stuttgart (Institute for Industrial Engineering), a wide variety of shapes and variants for this new generation of pliers was investigated during the course of extensive studies and user tests. Gripping system, hand closure forces, jaw shapes and geometries are just a few of the points examined.

Details of cutting results of cutting pliers.

Symbol	Types of wire	Example	Tensile strength approx. N/mm²
○	Soft Wire	Copper, aluminium	220 - 250
●	Medium hard wire	Iron nail	750 - 800
●	Hard wire	Spring wire, steel nail	1.600 - 1.800
●	Piano wire	Hardened spring steel	2.200 - 2.300

Test wires standardised in DIN ISO 5744



NEW
Z 12 9 16

Diagonal Cutters Inomic® VDE.
Insulation up to 1,000 V AC, GS-Mark.

- Standards:** Manufactured acc. to IEC 60900:2004.
- Head shape:** Innovative head with dual cutting function. Cutting edge with bevel near the joint, cutting edge without bevel in the front cutting area.
- Design:** Head of pliers manufactured in MIM technology. Arms of the pliers move in parallel: +25 % force transfer. Angled shape (23°) for fatigue-free work. With opening spring and locking mechanism.
- Material:** Head of pliers made of ball-bearing steel, hardened to approx. 60 HRC. Handles made of tough fibre-glass reinforced plastic, ergonomic soft grip zone in the handle.
- Application:** For cutting hard wires in the joint area. Flush, burr-free cutting of soft wires, cables and plastics in the front cutting area.
With improved access to the objects to be processed.

Order-No.	Typ	○	●	●	↵↵	↵
30666 3	160	4.0	2.8	2.0	140	5