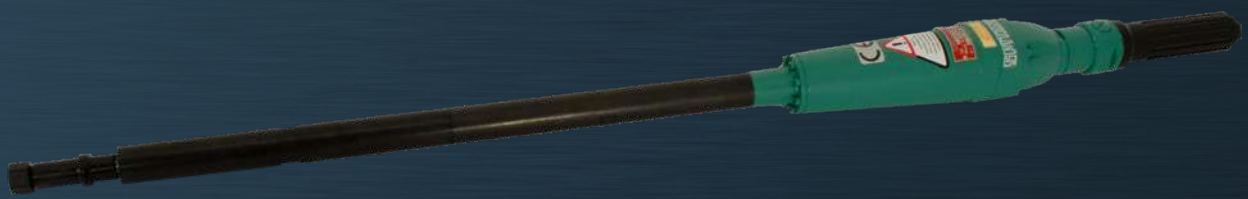
SPITZNAS
CUSTOMIZED POWER SOLUTIONS



# AXIAL GRINDERS

## TOOLS FOR THE SPECIALIST



CSI srl - Genova
www.csiadvice.it

PNEUMATIC

HYDRAULIC

# SYSTEM CONCEPT



Second handle



Lever valve with self lock or
twist throttle with self retraction



Exhaust sidewise







Collet
type 0010 / 0050



Straight grinding wheels with
protection hood type 0020 / 0030



Conical grinding wheels without
protection hood type 0060/0070



# PNEUMATIC

At speeds up to **10.000 rpm** or **12.000 rpm** these ginders are the ideal tool for high abrasion work.
Various tool holder are available.
The grinder with neck dia. of 24 mm and 30 mm can be optionally extended.



**PNEUMATIC** **OPERATING PRESSURE** 6 Bar

| ORDER NO. | Valve type | Tool holder for (disc dia. x width x hole dia.) | Speed (free) | Power | Air consumption | Length | Neck dia. | Noise level LpA | Vibration level | Weight |
|---|---|---|---|---|---|---|---|---|---|---|
| | | mm | rpm | kW | m³/min | mm | mm | dB(A) | m/s² | kg |
| **1 1465 0010** | Twist throttle | Collet dia. 6 mm | 10,000 | 1.25 | 1.50 | 625 | - | 87.5 | <2.5 | 3.5 |
| **0020** | | Straight grinding wheels with protection hood, dia. max. 100 mm | | | | | | | | |
| **0030** | | Straight grinding wheels with protection hood, dia. max. 125 mm | | | | | | | | |
| **0040** | | Form grinders, dia. max. 50 mm, M12 | | | | | | | | |
| **0050** | | Collet dia. 8 mm | | | | | | | | |
| **0060** | | Conical grinding wheels without protection hood, dia. 60-70 x 20-25 x dia. 20 mm | | | | | | | | |
| **0070** | | Conical grinding wheels without protection hood, dia. 80 x 20 x dia. 20 mm | | | | | | | | |
| **0080** | | Grinding disc, dia. max. 125 x 2-6 x 22 mm | | | | | | | | |
| **1 1565 0010** | Lever valve | Collet dia. 6 mm | | | | | | | | |
| **0020** | | Straight grinding wheels with protection hood, dia. max. 100 mm | | | | | | | | |
| **0030** | | Straight grinding wheels with protection hood, dia. max. 125 mm | | | | | | | | |
| **0040** | | Form grinders, dia. max. 50 mm, M12 | | | | | | | | |
| **0050** | | Collet dia. 8 mm | | | | | | | | |
| **0060** | | Conical grinding wheels without protection hood, dia. 60-70 x 20-25 x dia. 20 mm | | | | | | | | |
| **0070** | | Conical grinding wheels without protection hood, dia. 80 x 20 x dia. 20 mm | | | | | | | | |
| **0080** | | Grinding disc, dia. max. 125 x 2-6 x 22 mm | | | | | | | | |
| **1 1495 0010** | Twist throttle | Collet dia. 6 mm | 12,000 | 1.70 | 1.70 | 625 | - | 86.3 | 3.2 | 3.5 |
| **0020** | | Straight grinding wheels with protection hood, dia. max. 100 mm | | | | | | | | |
| **0030** | | Straight grinding wheels with protection hood, dia. max. 125 mm | | | | | | | | |
| **0040** | | Form grinders, dia. max. 50 mm, M12 | | | | | | | | |
| **0050** | | Collet dia. 8 mm | | | | | | | | |
| **0060** | | Conical grinding wheels without protection hood, dia. 60-70 x 20-25 x dia. 20 mm | | | | | | | | |
| **0070** | | Conical grinding wheels without protection hood, dia. 80 x 20 x dia. 20 mm | | | | | | | | |
| **0080** | | Grinding disc, dia. max. 125 x 2-6 x 22 mm | | | | | | | | |
| **1 1595 0010** | Lever valve | Collet dia. 6 mm | | | | | | | | |
| **0020** | | Straight grinding wheels with protection hood, dia. max. 100 mm | | | | | | | | |
| **0030** | | Straight grinding wheels with protection hood, dia. max. 125 mm | | | | | | | | |
| **0040** | | Form grinders, dia. max. 50 mm, M12 | | | | | | | | |
| **0050** | | Collet dia. 8 mm | | | | | | | | |
| **0060** | | Conical grinding wheels without protection hood, dia. 60-70 x 20-25 x dia. 20 mm | | | | | | | | |
| **0070** | | Conical grinding wheels without protection hood, dia. 80 x 20 x dia. 20 mm | | | | | | | | |
| **0080** | | Grinding disc, dia. max. 125 x 2-6 x 22 mm | | | | | | | | |

Subject to technical change.

Performance data at an operating pressure of 6 bar.

# TECHNICAL DATA

## PNEUMATIC

At speeds up to **10.000 rpm** or **12.000 rpm** these ginders are the ideal tool for high abrasion work.
Various tool holder are available.
The grinder with neck dia. of 24 mm and 30 mm can be optionally extended.



**PNEUMATIC** **OPERATING PRESSURE** 6 Bar

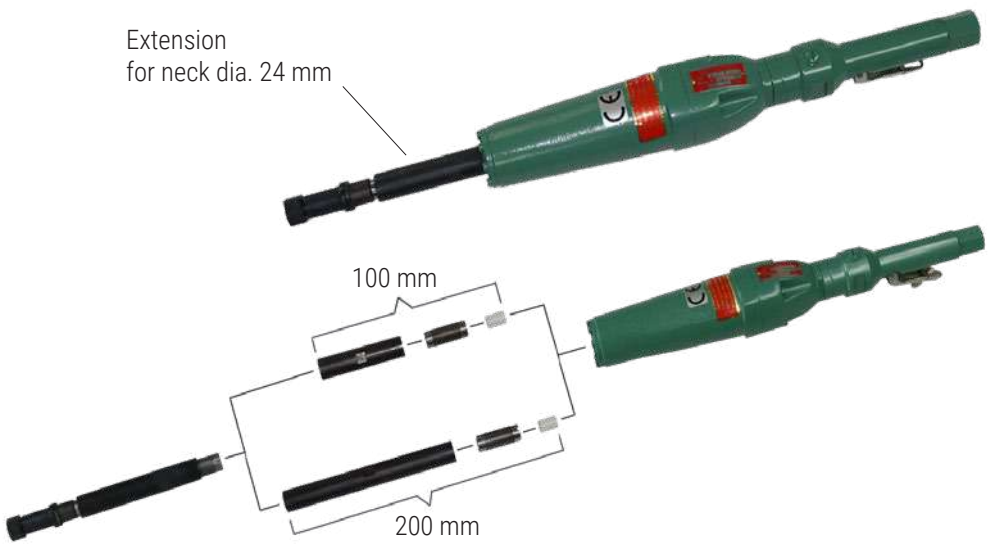
| ORDER NO. | Valve type | Tool holder for (disc dia. x width x hole dia.) | Speed (free) | Power | Air consumption | Length | Neck-dia. | Noise level LpA | Vibration level | Weight |
|---|---|---|---|---|---|---|---|---|---|---|
| | | mm | rpm | kW | m³/min | mm | mm | dB(A) | m/s² | kg |
| **1 1466 0010** | Twist throttle | Collet dia. 6 mm | 10,000 | 1.25 | 1.50 | 612 | 24 | 87.5 | <2.5 | 4.9 |
| **0040** | | Form grinders, dia. max. 50 mm, M12 | | | | | | | | |
| **0050** | | Collet dia. 8 mm | | | | | | | | |
| **1 1566 0010** | Lever valve | Collet dia. 6 mm | | | | | | | | |
| **0040** | | Form grinders, dia. max. 50 mm, M12 | | | | | | | | |
| **0050** | | Collet dia. 8 mm | | | | | | | | |
| **1 1496 0010** | Twist throttle | Collet dia. 6 mm | 12,000 | 1.70 | 1.70 | 612 | 24 | 86.3 | 3.2 | 4.9 |
| **0040** | | Form grinders, dia. max. 50 mm, M12 | | | | | | | | |
| **0050** | | Collet dia. 8 mm | | | | | | | | |
| **1 1596 0010** | Lever valve | Collet dia. 6 mm | | | | | | | | |
| **0040** | | Form grinders, dia. max. 50 mm, M12 | | | | | | | | |
| **0050** | | Collet dia. 8 mm | | | | | | | | |
| **1 1461 0010** | Twist throttle | Collet dia. 6 mm | 10,000 | 1.25 | 1.50 | 1.010 | 30 | 88.5 | <2.5 | 5.0 |
| **0040** | | Form grinders, dia. max. 50 mm, M12 | | | | | | | | |
| **0050** | | Collet dia. 8 mm | | | | | | | | |
| **1 1561 0010** | Lever valve | Collet dia. 6 mm | | | | | | | | |
| **0040** | | Form grinders, dia. max. 50 mm, M12 | | | | | | | | |
| **0050** | | Collet dia. 8 mm | | | | | | | | |
| **1 1491 0010** | Twist throttle | Collet dia. 6 mm | 12,000 | 1.70 | 1.70 | 1.010 | 30 | 87.5 | 3.2 | 5.0 |
| **0040** | | Form grinders, dia. max. 50 mm, M12 | | | | | | | | |
| **0050** | | Collet dia. 8 mm | | | | | | | | |
| **1 1591 0010** | Lever valve | Collet dia. 6 mm | | | | | | | | |
| **0040** | | Form grinders, dia. max. 50 mm, M12 | | | | | | | | |
| **0050** | | Collet dia. 8 mm | | | | | | | | |

Subject to technical change.

Performance data at an operating pressure of 6 bar.

## EXTENSIONS

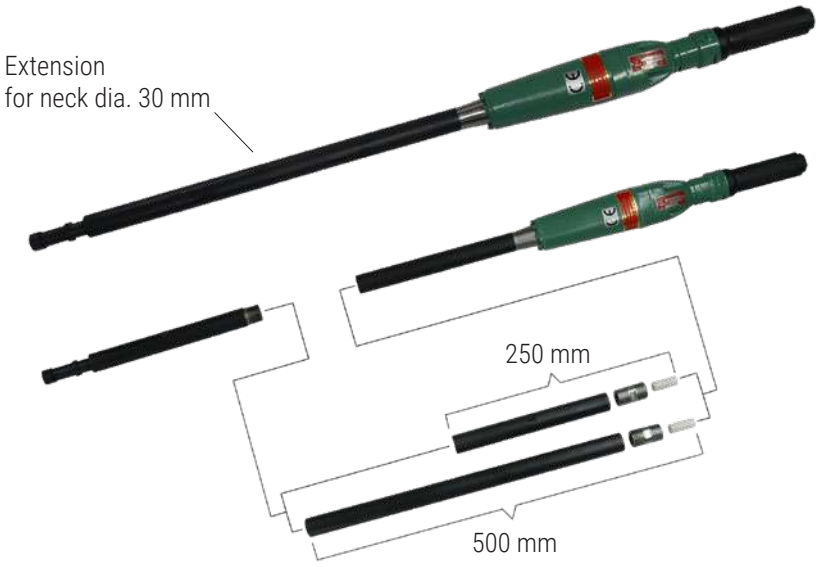
Additional extensions, which are connectable to each other and which can be fitted between motor and grinding spindle, allow a max. neck length of 1250 mm.




| ORDER NO. | Description | Length [mm] | For neck dia. [mm] | For type |
|---|---|---|---|---|
| **1 1433 7940** | Extension | 100 | 24 | 1 1466, 1 1566, 11496, 1 1596 |
| **1 1433 7950** | Extension | 200 | | |

## EXTENSIONS

Additional extensions, which are connectable to each other and which can be fitted between motor and grinding spindle, allow a max. neck length of 1250 mm.




| ORDER NO. | Description | Length [mm] | For neck dia. [mm] | For type |
|---|---|---|---|---|
| **1 1450 7930** | Extension | 250 | 30 | 1 1461, 1 1561, 1 1491, 1 1591 |
| **1 1450 7940** | Extension | 500 | | |

# SYSTEM CONCEPT



Tool holder for grinding discs



Robust and powerful motor unit



Twist throttle with self retraction or lever valve with self lock



Protection hood

Closed motor unit with exhaust sidewise

Inbuilt oiler







## PNEUMATIC



Our most powerful axial grinders for maximum abrasion work.
The machine has a tool holder for straight grinding wheels with protection hood, maximum disc diameter 150 mm.

**PNEUMATIC** | **OPERATING PRESSURE** 6 Bar

| ORDER NO. | Valve type | Tool holder for (disc dia. x width x hole dia.) | Speed (free) | Power | Air consumption | Length | Noise level LpA | Vibration level | Weight |
|---|---|---|---|---|---|---|---|---|---|
| | | mm | rpm | kW | m³/min | mm | dB(A) | m/s² | kg |
| **1 1655 0010** | Twist throttle | Straight grinding wheels with protection hood, dia. max. 150 mm | 3,800 | 1.50 | 1.50 | 554 | 85.0 | 2.3 | 5.3 |
| **1 1656 0010** | | Straight grinding wheels with protection hood, dia. max. 125 mm | 4,600 | 1.60 | 1.60 | 554 | 83.0 | 3.1 | 5.1 |
| **1 1657 0010** | | Straight grinding wheels with | 5,800 | 1.80 | 1.80 | 554 | 83.0 | 3.2 | 5.3 |
| **1 1658 0010** | | protection hood, dia. max. 150 mm | 10,190 | 2.00 | 2.20 | 554 | 78.0 | 6.5 | 5.3 |
| **1 1665 0010** | Lever valve | Straight grinding wheels with protection hood, dia. max. 150 mm | 3,800 | 1.50 | 1.50 | 540 | 85.0 | 2.3 | 5.3 |
| **1 1666 0010** | | Straight grinding wheels with protection hood, dia. max. 125 mm | 4,600 | 1.60 | 1.60 | 540 | 83.0 | 3.1 | 5.1 |
| **1 1667 0010** | | Straight grinding wheels with | 5,800 | 1.80 | 1.80 | 540 | 83.0 | 3.2 | 5.3 |
| **1 1668 0010** | | protection hood, dia. max. 150 mm | 10,190 | 2.00 | 2.00 | 540 | 78.0 | 6.5 | 5.3 |

Subject to technical change.

Performance data at an operating pressure of 6 bar.

## HYDRAULIC



Powerful hydraulic grinder for hard work and maximum abrasion work, as well usable for underwater work.
The maximum disc diameter is 200 mm.

**HYDRAULIC** | **OPERATING PRESSURE** 140 Bar | **UNDERWATER OPERATION**

| ORDER NO. | Valve type | Tool holder for | Disc dia. max. | Speed (free) | Power | Volume flow | Length | Noise level LpA | Vibration level | Weight |
|---|---|---|---|---|---|---|---|---|---|---|
| | | mm | mm | rpm | kW | l/min | mm | dB(A) | m/s² | kg |
| **1 1580 0060** | Lever valve | dia. 20/M12 | 200 | 7,000 | 1.80 | 18.0 | 665 | 80.6 | <2.5 | 8.3 |

Subject to technical change.

Performance data at an operating pressure of 140 bar.

# SYSTEM ACCESSORIES

## HOSES WITH LUBRICATOR

We recommend to use hoses with lubricator when the service unit is not installed upstream to the machine.

| ORDER NO. | Description |
|---|---|
| **9 3610 0180** | Hose 2,5 m, ID 10 mm, with automatic lubricator R 1/4“ |
| **9 3610 0350** | Hose 2,5 m, ID 13 mm, with automatic lubricator R 1/2“ |




## SERVICE UNITS

Portable service units for safe operation and protection of your grinder.

| ORDER NO. | Pos. | Description |
|---|---|---|
| **9 2406 0260** | 1 | Portable service unit with pressure regulator 3/4“ |
| **9 2406 0630** | 2 | Portable service unit with protection housing and pressure regulator 1/2“ |
| **9 2406 0650** | 2 | Portable service unit with protection housing and pressure regulator 3/4“ |







## ACCESSORIES AND CONSUMABLES

The easy and safe storage with our carrying case and the use of our multi oil guarantees the optimum condition of your machine.

| ORDER NO. | Pos. | Description |
|---|---|---|
| **9 9910 0090** | 1 | Carrying case |
| **9 9902 0020** | 2 | Pneumatic oil 50 ml |
| **9 9902 0470** | 3 | Pneumatic oil 1000 ml |
| **9 9902 0120** | 4 | Multi oil for cleaning and protection |

**More accessories on request.**







**DIE GRINDERS**



**AXIAL GRINDERS**



**ANGLE-/ AND VERTICAL GRINDERS**



CSI srl

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