



cutters

# Cutters Flush cut

| Order code | Type of cut | length (mm) | cutting force (kg) | copper wire<br>Ø mm awg |    | safety clip  | clip type |
|------------|-------------|-------------|--------------------|-------------------------|----|--------------|-----------|
| TR 20 M    |             | 132         | 3                  | 0.81                    | 20 | TR 20 M A    | AF        |
| TR 20 SM   |             | 132         | 3                  | 0.81                    | 20 | TR 20 SM A   | AF        |
| TR 25 P    |             | 132         | 3.5                | 1.02                    | 18 | TR 25 P A    | AF        |
| TR 25      |             | 138         | 5                  | 1.30                    | 16 | TR 25 A      | AF        |
| TR E 03 NB |             | 138         | 3                  | 1.30                    | 16 | TR E 03 AB   | AF        |
| TR 25 L    |             | 160         | 3                  | 1.30                    | 16 | TR 25 L A    | AF        |
| TR 25 L 25 |             | 160         | 3                  | 1.30                    | 16 | TR 25 L 25 A | AF        |
| TR 30      |             | 138         | 5.5                | 1.30                    | 16 | TR 30 A      | AL        |
| TR 30 58 R |             | 138         | 6.5                | 1.63                    | 14 | TR 30 58 R A | AL        |
| TR 58 R    |             | 138         | 9                  | 2.05                    | 12 | TR 58 R A    | AL        |
| TRR 58 G   |             | 160         | 1.5                | 2.59                    | 10 | -            | -         |
| TR 5000 R  |             | 138         | 8                  | 2.00                    | 12 | TR 5000 R A  | AF        |
| TR 5000 PR |             | 138         | 5                  | 1.30                    | 16 | TR 5000 PR A | AF        |

## Rounded flush cut

| Order code | Type of cut | length (mm) | cutting force (kg) | copper wire<br>Ø mm awg |    | safety clip | clip type |
|------------|-------------|-------------|--------------------|-------------------------|----|-------------|-----------|
| TR 25 B    |             | 138         | 5                  | 1.02                    | 18 | -           | -         |
| TR 30 B    |             | 138         | 5.5                | 1.02                    | 18 | -           | -         |
| TR 5000 B  |             | 138         | 12                 | 1.63                    | 14 | -           | -         |
| TRR 5000 B |             | 150         | 15                 | 2.05                    | 12 | -           | -         |
| TRR 58 B   |             | 160         | 3                  | 2.05                    | 12 | -           | -         |
| TR 5000 PG |             | 138         | 5                  | 1.02                    | 18 | -           | -         |

## Chamfered cut

| Order code | Type of cut | length (mm) | cutting force (kg) | copper wire<br>Ø mm awg |    | safety clip | clip type |
|------------|-------------|-------------|--------------------|-------------------------|----|-------------|-----------|
| TR 30 58   |             | 138         | 8.5                | 1.63                    | 14 | TR 30 58 A  | AL        |
| TR 58      |             | 138         | 11                 | 2.05                    | 12 | TR 58 A     | AL        |
| TRR 58     |             | 160         | 15                 | 2.59                    | 10 | TRR 58 A    | AL        |
| TR 5000    |             | 138         | 12                 | 2.05                    | 12 | TR 5000 A   | AF        |
| TR 5000 P  |             | 138         | 8                  | 1.30                    | 16 | TR 5000 P A | AF        |
| TRR 5000   |             | 138         | 14                 | 2.59                    | 10 | TRR 5000 A  | AF        |

## Flush cut at different height

| Order code | Type of cut | length (mm) | cutting force (kg) | copper wire<br>Ø mm awg |    | safety clip | clip type |
|------------|-------------|-------------|--------------------|-------------------------|----|-------------|-----------|
| TR 25 15   |             | 138         | 5                  | 1.30                    | 16 | -           | -         |
| TR 25 15 L |             | 160         | 3                  | 1.30                    | 16 | -           | -         |
| TR 5000 W  |             | 147         | 3.5                | 1.30                    | 16 | -           | -         |
| TR 5000 10 |             | 147         | 5.5                | 1.30                    | 16 | -           | -         |
| TR 5000 13 |             | 147         | 5.5                | 1.30                    | 16 | -           | -         |
| TR 5000 15 |             | 147         | 5.5                | 1.30                    | 16 | -           | -         |
| TR 30 15 V |             | 144         | 3                  | 1.02                    | 18 | -           | -         |
| TR 30 10   |             | 138         | 5.5                | 1.30                    | 16 | -           | -         |
| TR 30 15   |             | 138         | 5.5                | 1.30                    | 16 | -           | -         |
| TR 50 15   |             | 138         | 8                  | 1.60                    | 14 | -           | -         |
| TR 50 20   |             | 138         | 8                  | 1.60                    | 14 | -           | -         |

## Oblique or vertical cut

| Order code | Type of cut | length (mm) | cutting force (kg) | copper wire<br>Ø mm awg |    | safety clip | clip type |
|------------|-------------|-------------|--------------------|-------------------------|----|-------------|-----------|
| TR 20 VM   |             | 132         | 2                  | 0.64                    | 22 | -           | -         |
| TR 30 V    |             | 144         | 3                  | 1.02                    | 18 | -           | -         |
| TR 5000 V  |             | 147         | 3.5                | 1.30                    | 16 | -           | -         |
| TR 25 50   |             | 135         | 5                  | 1.30                    | 16 | -           | -         |
| TR 20 50 M |             | 131         | 2                  | 0.64                    | 22 | -           | -         |
| TR 30 T    |             | 137         | 2.5                | 1.02                    | 18 | -           | -         |
| TR 20 TM   |             | 129         | 2                  | 0.64                    | 22 | -           | -         |
| TR 5045 V  |             | 147         | 3                  | 1.30                    | 16 | -           | -         |

## Induction & tungsten blades treatment

| Order code | Type of cut | copper wire<br>Ø mm awg |    | iron wire<br>Ø mm awg |    | steel wire<br>Ø mm awg |    | safety clip | clip type |
|------------|-------------|-------------------------|----|-----------------------|----|------------------------|----|-------------|-----------|
| ITR 30     |             | 1.30                    | 16 | 1.02                  | 18 | -                      | -  | ITR 30 A    | AL        |
| ITR 58 R   |             | 2.05                    | 12 | 1.63                  | 14 | -                      | -  | ITR 58 R A  | AL        |
| ITRR 58 G  |             | 2.59                    | 10 | 1.63                  | 14 | -                      | -  | -           | -         |
| ITR 30 58  |             | 1.63                    | 14 | 1.30                  | 16 | -                      | -  | ITR 30 58 A | AL        |
| ITR 58     |             | 2.05                    | 12 | 1.63                  | 14 | -                      | -  | ITR 58 A    | AL        |
| ITRR 58    |             | 2.59                    | 10 | 1.63                  | 14 | -                      | -  | -           | -         |
| ITR 5000   |             | 2.05                    | 12 | 1.63                  | 14 | -                      | -  | ITR 5000 A  | AF        |
| TTR 5000   |             | 2.05                    | 12 | 1.63                  | 14 | 0.6                    | 22 | TTR 5000 A  | AF        |
| TTR 5500   |             | 2.59                    | 10 | 2.05                  | 12 | 0.8                    | 20 | -           | -         |



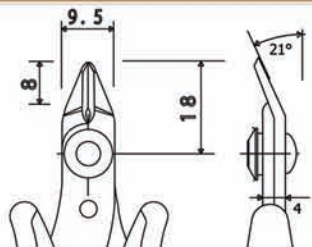
# Cutters *flush cut*

## TR 20 M



### TR 20 M

Tool for a flush cut. The reduced head's dimension and its pointed shape, allow access to difficult to reach areas. Steel thickness 2.0 mm. Tool length 132mm. Safety clip for holding wire scraps securely after cutting available. ESD-safe handles version available

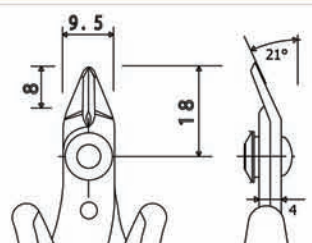


| Order code | ESD Order code | Safety clip | Order code | Type of spring | Cutting force (kg) | Copper wire ( Ø mm) | Copper wire (awg) |
|------------|----------------|-------------|------------|----------------|--------------------|---------------------|-------------------|
| TR 20 M    | TR 20 M D      | TR 20 M A   |            | AF             | 3                  | 0.81                | 20                |

## TR 20 SM



**TR 20 SM:** Tool for a flush cut. The reduced head's dimension and its pointed shape, allow access to difficult to reach areas. Similar to TR 20 M but with rounded edges. Safety clip for holding wire scraps securely after cutting available. Steel thickness 2.0mm. Tool length 132mm. ESD-safe handles version available.

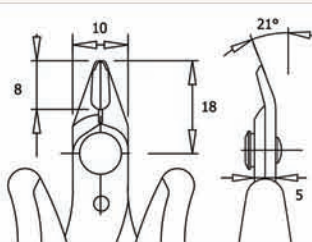


| Order code | ESD Order code | Safety clip | Order code | Type of spring | Cutting force (kg) | Copper wire ( Ø mm) | Copper wire (awg) |
|------------|----------------|-------------|------------|----------------|--------------------|---------------------|-------------------|
| TR 20 SM   | TR 20 SM D     | TR 20 SM A  |            | AF             | 3                  | 0.81                | 20                |

## TR 25 P



**TR 25 P:** Tool for a flush cut. With very sharp cutting edges, it is ideal for very delicate work in electronics, allowing access to difficult to reach areas. Safety clip for holding wire scraps securely after cutting available. Steel thickness 2.5mm. Tool length 132mm. ESD-safe handles version available

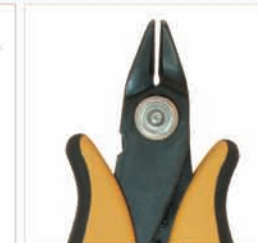
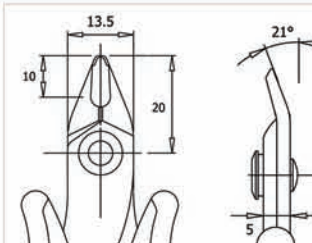


| Order code | ESD Order code | Safety clip | Order code | Type of spring | Cutting force (kg) | Copper wire ( Ø mm) | Copper wire (awg) |
|------------|----------------|-------------|------------|----------------|--------------------|---------------------|-------------------|
| TR 25 P    | TR 25 P D      | TR 25 P A   |            | AF             | 3.5                | 1.02                | 18                |

## TR 25



**TR 25:** Tool for a flush cut. One of the most popular cutting tool. Safety clip for holding wire scraps securely after cutting available. Steel thickness 2.5mm. Tool length 138mm. ESD-safe handles version available

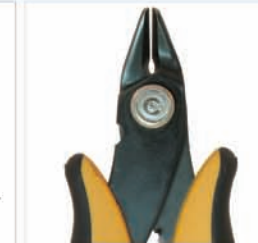
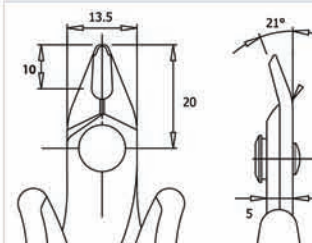


| Order code | ESD Order code | Safety clip | Order code | Type of spring | Cutting force (kg) | Copper wire ( Ø mm) | Copper wire (awg) |
|------------|----------------|-------------|------------|----------------|--------------------|---------------------|-------------------|
| TR 25      | TR 25 D        | TR 25 A     |            | AF             | 5                  | 1.30                | 16                |

## TR E 03 NB



**TRE 03 NB:** Tool for a flush cut. Purposely designed as the simplified version of the TR 25 but with the same main characteristics. Safety clip for holding wire scraps securely after cutting available. Steel thickness 2.5mm. Tool length 138mm. ESD-safe handles version available

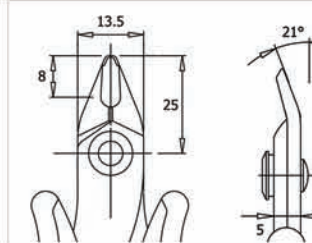


| Order code | ESD Order code | Safety clip | Order code | Type of spring | Cutting force (kg) | Copper wire ( Ø mm) | Copper wire (awg) |
|------------|----------------|-------------|------------|----------------|--------------------|---------------------|-------------------|
| TR E 03 NB | TR E 03 NB D   | TR E 03 AB  |            | AF             | 3                  | 1.30                | 16                |

## TR 25 L



**TR 25 L:** Tool for a flush cut. Same characteristics as TR 25, but specially designed with longer handles to reduce the force needed by the operator. Safety clip for holding wire scraps securely after cutting available. Steel thickness 2.5mm. Tool length 160mm. ESD-safe handles version available



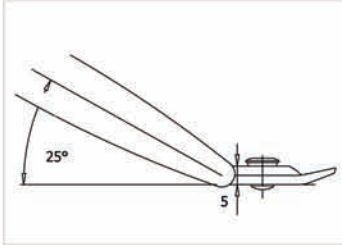
| Order code | ESD Order code | Safety clip | Order code | Type of spring | Cutting force (kg) | Copper wire ( Ø mm) | Copper wire (awg) |
|------------|----------------|-------------|------------|----------------|--------------------|---------------------|-------------------|
| TR 25 L    | TR 25 L D      | TR 25 L A   |            | AF             | 3                  | 1.30                | 16                |



### TR 25 L 25



**TR 25 L 25:** Tool for a flush cut. The special 25° angle allows the use in difficult to reach areas and its longer handles reduce the force needed by the operator. Safety clip for holding wire scraps securely after cutting available. Steel thickness 2.5mm. Tool length 160mm. ESD-safe handles version available

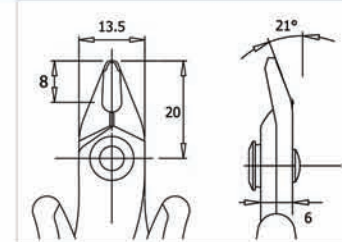


| Order code | ESD Order code | Safety clip  | Order code | Type of spring | Cutting force (kg) | Copper wire ( Ø mm) | Copper wire (awg) |
|------------|----------------|--------------|------------|----------------|--------------------|---------------------|-------------------|
| TR 25 L 25 | TR 25 L 25 D   | TR 25 L 25 A |            | AF             | 3                  | 1.30                | 16                |

### TR 30



**TR 30:** Tool for a flush cut. One of the most popular cutting tool. Safety clip for holding wire scraps securely after cutting available. Steel thickness 3.0mm. Tool length 138mm. ESD-safe handles version available

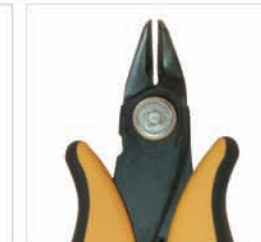
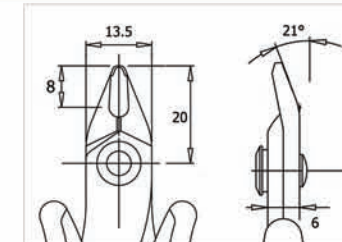


| Order code | ESD Order code | Safety clip | Order code | Type of spring | Cutting force (kg) | Copper wire ( Ø mm) | Copper wire (awg) |
|------------|----------------|-------------|------------|----------------|--------------------|---------------------|-------------------|
| TR 30      | TR 30 D        | TR 30 A     |            | AL             | 5.5                | 1.30                | 16                |

### TR 30 58 R



**TR 30 58 R:** Tool for a flush cut. Due to the special treatment of the blades, it is suitable for cutting ferrous material. Safety clip for holding wire scraps securely after cutting available. Steel thickness 3.0mm. Tool length 138mm. ESD-safe handles version available

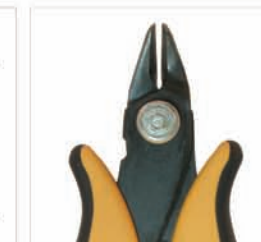
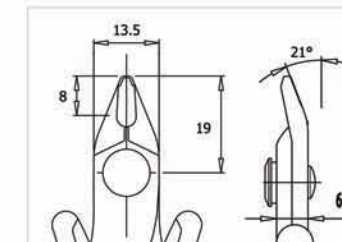


| Order code | ESD Order code | Safety clip  | Order code | Type of spring | Cutting force (kg) | Copper wire ( Ø mm) | Copper wire (awg) |
|------------|----------------|--------------|------------|----------------|--------------------|---------------------|-------------------|
| TR 30 58 R | TR 30 58 R D   | TR 30 58 R A |            | AL             | 6.5                | 1.63                | 14                |

### TR 58 R



**TR 58 R:** Tool for a flush cut. The special treatment of the blades make this tool particularly suitable for the cutting of ferrous material. Safety clip for holding wire scraps securely after cutting available. Steel thickness 3.0mm. Tool length 138mm. ESD-safe handles version available

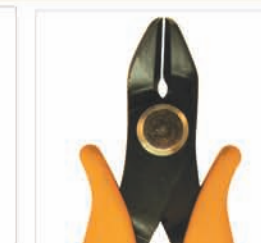
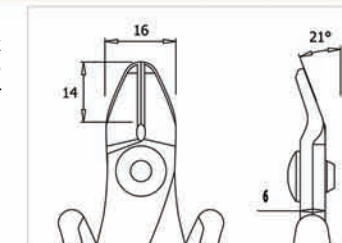


| Order code | ESD Order code | Safety clip | Order code | Type of spring | Cutting force (kg) | Copper wire ( Ø mm) | Copper wire (awg) |
|------------|----------------|-------------|------------|----------------|--------------------|---------------------|-------------------|
| TR 58 R    | TR 58 R D      | TR 58 R A   |            | AL             | 9                  | 2.05                | 12                |

### TRR 58 G



**TRR 58 G:** Very strong tool for a flush cut, suitable, apart from work in electronics, also to be used in the jewellery's and for the cutting of rubber seal. Steel thickness 3.0mm. Tool length 160mm. ESD-safe handles version available

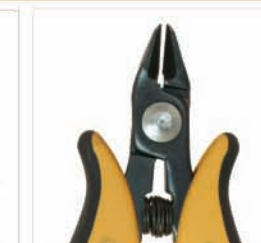
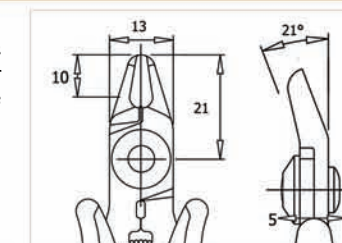


| Order code | ESD Order code | Safety clip | Order code | Type of spring | Cutting force (kg) | Copper wire ( Ø mm) | Copper wire (awg) |
|------------|----------------|-------------|------------|----------------|--------------------|---------------------|-------------------|
| TRR 58 G   | TRR 58 G D     | -           | -          | -              | 1.5                | 2.59                | 10                |

### TR 5000 R



**TR 5000 R:** Strong tool for a flush cut. Safety clip for holding wire scraps securely after cutting available (order code TR 5000 R A). Safety clip type AF. Steel thickness 5.0mm. Tool length 138mm. ESD-safe handles version available



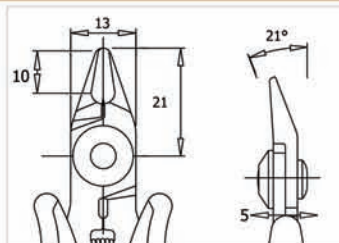
| Order code | ESD Order code | Safety clip | Order code | Type of spring | Cutting force (kg) | Copper wire ( Ø mm) | Copper wire (awg) |
|------------|----------------|-------------|------------|----------------|--------------------|---------------------|-------------------|
| TR 5000 R  | TR 5000 R D    | TR 5000 R A |            | AF             | 8                  | 2.00                | 12                |



## TR 5000 PR

**TR 5000 PR**

Strong tool for a flush cut. With very sharp cutting edges it allows access to difficult to reach areas. Safety clip for holding wire scraps securely after cutting available. Steel thickness 5.0mm. Tool length 138mm  
ESD-safe handles version available



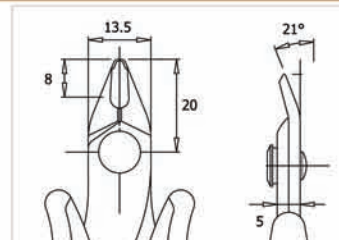
| Order code | ESD Order code | Safety clip | Order code | Type of spring | Cutting force (kg) | Copper wire (Ø mm) | Copper wire (awg) |
|------------|----------------|-------------|------------|----------------|--------------------|--------------------|-------------------|
| TR 5000PR  | TR 5000PR D    | TR 5000PR A |            | AF             | 5                  | 1.30               | 16                |

## Cutters *rounded flush cut*

## TR 25 B



**TR 25 B:** Tool for a flush well finished cut. Lightweight and easy to handle with swelled blades, leaving the cut well finished. Suitable for work with plastic. Steel thickness 2.5mm. Tool length 138mm.  
ESD-safe handles version available

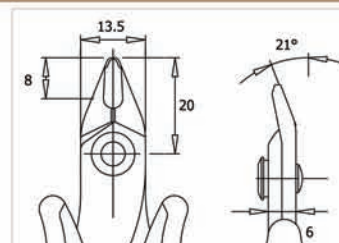


| Order code | ESD Order code | Safety clip | Order code | Type of spring | Cutting force (kg) | Copper wire (Ø mm) | Copper wire (awg) |
|------------|----------------|-------------|------------|----------------|--------------------|--------------------|-------------------|
| TR 25 B    | TR 25 B D      | -           |            | -              | 5                  | 1.02               | 18                |

## TR 30 B



**TR 30 B:** Tool for a flush finished cut. Lightweight and easy to handle with swelled blades, leaving the cut well finished. Suitable for work with plastic. Steel thickness 3.0mm. Tool length 138mm  
ESD-safe handles version available

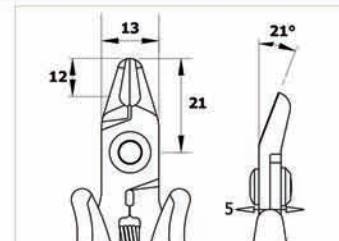


| Order code | ESD Order code | Safety clip | Order code | Type of spring | Cutting force (kg) | Copper wire (Ø mm) | Copper wire (awg) |
|------------|----------------|-------------|------------|----------------|--------------------|--------------------|-------------------|
| TR 30 B    | TR 30 B D      | -           |            | -              | 5.5                | 1.02               | 18                |

## TR 5000 B



**TR 5000 B:** Strong tool for flush finished cut. Suitable for work with plastic. Steel thickness 5.0mm. Tool length 138mm.  
ESD-safe handles version available

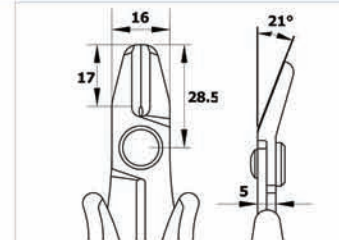


| Order code | ESD Order code | Safety clip | Order code | Type of spring | Cutting force (kg) | Copper wire (Ø mm) | Copper wire (awg) |
|------------|----------------|-------------|------------|----------------|--------------------|--------------------|-------------------|
| TR 5000 B  | TR 5000 B D    | -           |            | -              | 12                 | 1.63               | 14                |

## TRR 5000 B



**TRR 5000 B:** Strong tool for flush finished cut. Suitable for work with plastic. Steel thickness 5.0mm. Tool length 150mm.  
ESD-safe handles version available

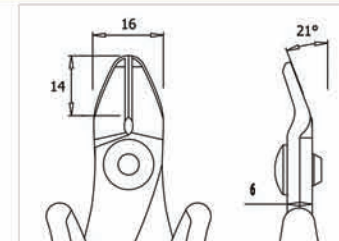


| Order code | ESD Order code | Safety clip | Order code | Type of spring | Cutting force (kg) | Copper wire (Ø mm) | Copper wire (awg) |
|------------|----------------|-------------|------------|----------------|--------------------|--------------------|-------------------|
| TRR 5000 B | TRR 5000 BD    | -           |            | -              | 15                 | 2.05               | 12                |

## TRR 58 B



**TRR 58 B:** Strong tool for flush finished cut. Steel thickness 3.0mm. Tool length 160mm.  
ESD-safe handles version available

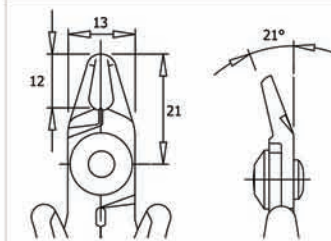


| Order code | ESD Order code | Safety clip | Order code | Type of spring | Cutting force (kg) | Copper wire (Ø mm) | Copper wire (awg) |
|------------|----------------|-------------|------------|----------------|--------------------|--------------------|-------------------|
| TRR 58 B   | TRR 58 B D     | -           |            | -              | 3.0                | 2.05               | 12                |

## TR 5000 PG



**TR 5000 PG:** Strong flush cutter with pointed, well finished cutting blades. Suitable for trimming in the plastic field. Steel thickness 5.0mm. Tool length 138mm. ESD-safe handles version available



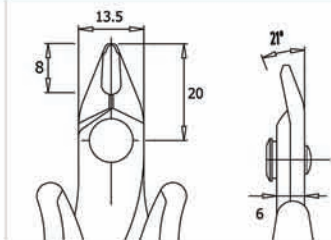
| Order code | ESD Order code | Safety clip | Order code | Type of spring | Cutting force (kg) | Copper wire ( Ø mm) | Copper wire (awg) |
|------------|----------------|-------------|------------|----------------|--------------------|---------------------|-------------------|
| TR 5000 PG | TR 5000 PG D   | -           | -          | -              | 5                  | 1.02                | 18                |

## Cutters *chamfered cut*

### TR 30 58



**TR 30 58:** Tool for a chamfered cut. The special treatment of blades make this tool particularly suitable for the cutting of ferrous material. Safety clip for holding wire scraps securely after cutting available. Steel thickness 3.0mm. Tool length 138mm. ESD-safe handles version available

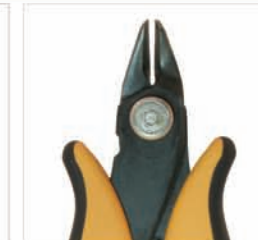
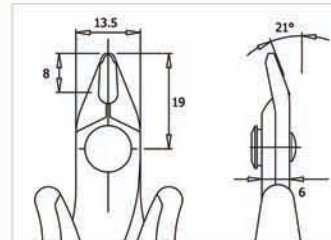


| Order code | ESD Order code | Safety clip | Order code | Type of spring | Cutting force (kg) | Copper wire ( Ø mm) | Copper wire (awg) |
|------------|----------------|-------------|------------|----------------|--------------------|---------------------|-------------------|
| TR 30 58   | TR 30 58 D     | TR 30 58 A  | AL         | 8.5            | 1.63               | 14                  |                   |

### TR 58



**TR 58:** Tool for a chamfered cut. The special treatment of blades make this tool suitable for the cutting of ferrous material. Stronger version of TR3058. Safety clip for holding wire scraps securely after cutting available. Steel thickness 3.0mm. Tool length 138mm. ESD-safe handles version available

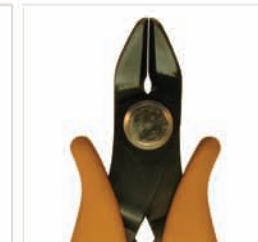
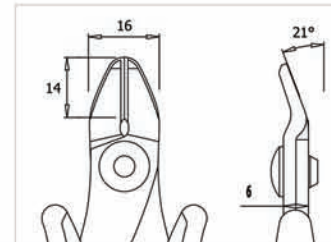


| Order code | ESD Order code | Safety clip | Order code | Type of spring | Cutting force (kg) | Copper wire ( Ø mm) | Copper wire (awg) |
|------------|----------------|-------------|------------|----------------|--------------------|---------------------|-------------------|
| TR 58      | TR 58 D        | TR 58 A     | AL         | 11             | 2.05               | 12                  |                   |

### TRR 58



**TRR 58:** Strong tool for a chamfered cut. For cutting quite resistant materials. Safety clip for holding wire scraps securely after cutting available. Steel thickness 3.0mm. Tool length 160mm. ESD-safe handles version available

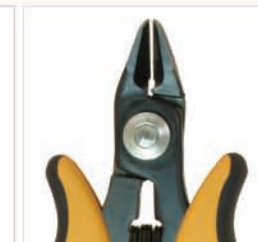
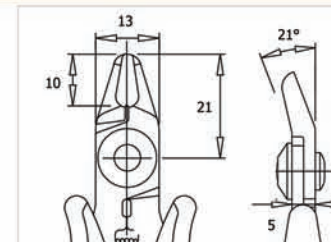


| Order code | ESD Order code | Safety clip | Order code | Type of spring | Cutting force (kg) | Copper wire ( Ø mm) | Copper wire (awg) |
|------------|----------------|-------------|------------|----------------|--------------------|---------------------|-------------------|
| TRR 58     | TRR 58 D       | TRR 58 A    | AL         | 15             | 2.59               | 10                  |                   |

### TR 5000



**TR 5000:** Strong tool for a chamfered cut. Safety clip for holding wire scraps securely after cutting available. Steel thickness 5.0mm. Tool length 138mm. ESD-safe handles version available

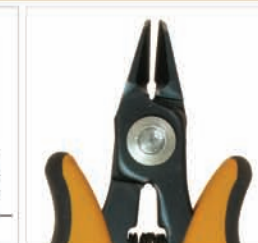
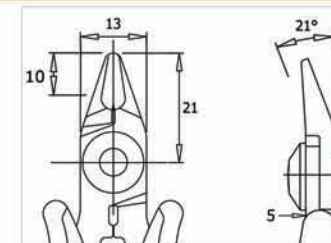


| Order code | ESD Order code | Safety clip | Order code | Type of spring | Cutting force (kg) | Copper wire ( Ø mm) | Copper wire (awg) |
|------------|----------------|-------------|------------|----------------|--------------------|---------------------|-------------------|
| TR 5000    | TR 5000 D      | TR 5000 A   | AF         | 12             | 2.05               | 12                  |                   |

### TR 5000 P



**TR 5000 P:** Strong tool for a chamfered cut with pointed cutting blades. Safety clip for holding wire scraps securely after cutting available. Steel thickness 5.0mm. Tool length 138mm. ESD-safe handles version available



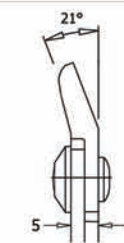
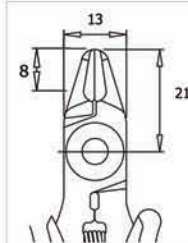
| Order code | ESD Order code | Safety clip | Order code | Type of spring | Cutting force (kg) | Copper wire ( Ø mm) | Copper wire (awg) |
|------------|----------------|-------------|------------|----------------|--------------------|---------------------|-------------------|
| TR 5000 P  | TR 5000 P D    | TR 5000 P A | AF         | 8              | 1.30               | 16                  |                   |



## TRR 5000

**TRR 5000**

Strong tool for a chamfered cut. Ideal to cut materials of a resistant nature. Safety clip for holding wire scraps securely after cutting available. Steel thickness 5.0mm. Tool length 138mm. ESD-safe handles version available



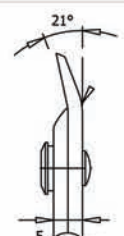
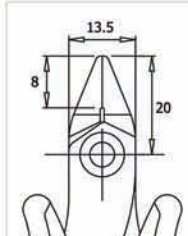
| Order code | ESD Order code | Safety clip | Order code | Type of spring | Cutting force (kg) | Copper wire ( Ø mm) | Copper wire (awg) |
|------------|----------------|-------------|------------|----------------|--------------------|---------------------|-------------------|
| TRR 5000   | TRR 5000 D     | TRR 5000 A  |            | AF             | 14                 | 2.59                | 10                |

## Cutters *flush cut at different height*

## TR 25 15



**TR 25 15:** Tool for a reverse flush cut. Terminal wire cut at 1.5mm from the surface. Steel thickness 2.5mm. Tool length 138mm. ESD-safe handles version available

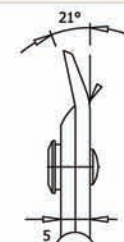
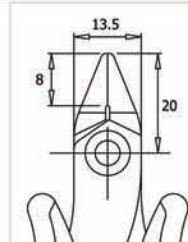


| Order code | ESD Order code | Safety clip | Order code | Type of spring | Cutting force (kg) | Copper wire ( Ø mm) | Copper wire (awg) |
|------------|----------------|-------------|------------|----------------|--------------------|---------------------|-------------------|
| TR 25 15   | TR 25 15 D     | -           |            | -              | 5                  | 1.30                | 16                |

## TR 25 15 L



**TR 25 15 L:** Tool for a reverse flush cut. Terminal wire cut at 1.5mm from the surface. Same characteristics as TR 25 15, but designed with longer handles reduce the force needed by the operator. Steel thickness 2.5mm. Tool length 160mm. ESD-safe handles version available.

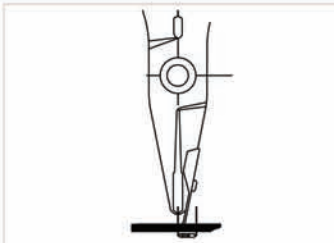


| Order code | ESD Order code | Safety clip | Order code | Type of spring | Cutting force (kg) | Copper wire ( Ø mm) | Copper wire (awg) |
|------------|----------------|-------------|------------|----------------|--------------------|---------------------|-------------------|
| TR 25 15 L | TR 25 15 L D   | -           |            | -              | 3                  | 1.30                | 16                |

## TR 5000 W



**TR 5000 W:** Tool for a front, flush cut, for working in difficult to reach areas. It is possible to adjust the cutting height from the surface (from 0 to 5mm). Steel thickness 5.0mm. Tool length 147mm. ESD-safe handles version available.

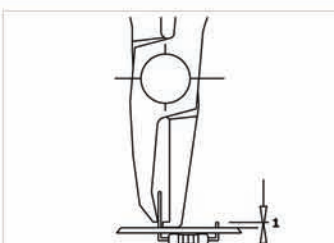


| Order code | ESD Order code | Safety clip | Order code | Type of spring | Cutting force (kg) | Copper wire ( Ø mm) | Copper wire (awg) |
|------------|----------------|-------------|------------|----------------|--------------------|---------------------|-------------------|
| TR 5000 W  | TR 5000 W D    | -           |            | -              | 3.5                | 1.30                | 16                |

## TR 5000 10



**TR 5000 10:** Tool for a front cut, ideal for access in difficult to reach areas. It cuts the component lead at 1mm from the surface. Steel thickness 5.0mm. Tool length 147mm. ESD-safe handles version available.

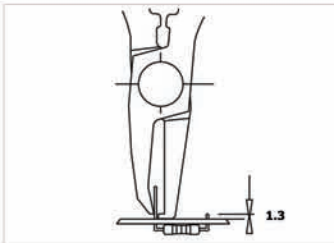


| Order code | ESD Order code | Safety clip | Order code | Type of spring | Cutting force (kg) | Copper wire ( Ø mm) | Copper wire (awg) |
|------------|----------------|-------------|------------|----------------|--------------------|---------------------|-------------------|
| TR 5000 10 | TR 5000 10 D   | -           |            | -              | 5.5                | 1.30                | 16                |

## TR 5000 13



**TR 5000 13:** Tool for a front cut, ideal for access in difficult to reach areas of PCBs. It cuts the component lead at 1.3mm from the surface. Steel thickness 5.0mm. Tool length 147mm. ESD-safe handles version available.



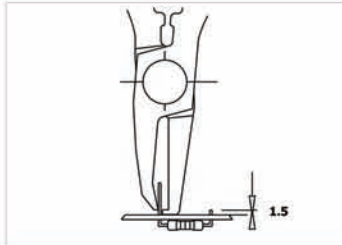
| Order code | ESD Order code | Safety clip | Order code | Type of spring | Cutting force (kg) | Copper wire ( Ø mm) | Copper wire (awg) |
|------------|----------------|-------------|------------|----------------|--------------------|---------------------|-------------------|
| TR 5000 13 | TR 5000 13 D   | -           |            | -              | 5.5                | 1.30                | 16                |



### TR 5000 15



**TR 5000 15:** Tool for a front cut, ideal for access in difficult to reach areas of PCBs. It cuts the component lead at 1.5mm from the surface. Steel thickness 5.0mm. Tool length 147mm. ESD-safe handles version available.

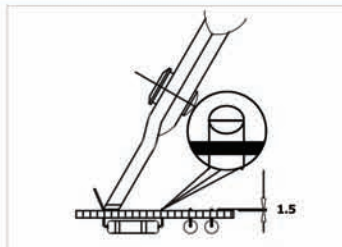


| Order code | ESD Order code | Safety clip | Order code | Type of spring | Cutting force (kg) | Copper wire ( Ø mm) | Copper wire (awg) |
|------------|----------------|-------------|------------|----------------|--------------------|---------------------|-------------------|
| TR 5000 15 | TR 5000 15 D   | -           | -          | -              | 5.5                | 1.30                | 16                |

### TR 30 15 V



**TR 30 15 V:** Tool for a front cut, angles at 60°. It cuts the component lead at 1.5mm from the surface. Steel thickness 3.0mm. Tool length 144mm. ESD-safe handles version available.

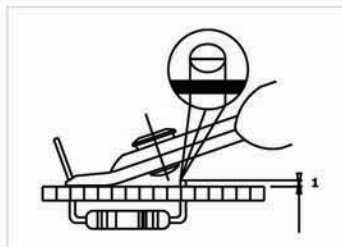


| Order code | ESD Order code | Safety clip | Order code | Type of spring | Cutting force (kg) | Copper wire ( Ø mm) | Copper wire (awg) |
|------------|----------------|-------------|------------|----------------|--------------------|---------------------|-------------------|
| TR 30 15 V | TR 30 15 V D   | -           | -          | -              | 3                  | 1.02                | 18                |

### TR 30 10



**TR 30 10:** Tool for a clean, flush cut. Conceived for cutting component wires 1mm from the surface. Steel thickness 3.0mm. Tool length 138mm. ESD-safe handles version available.

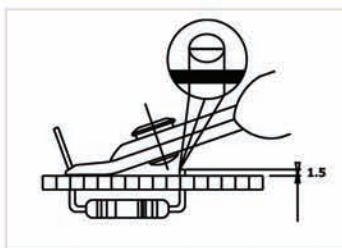


| Order code | ESD Order code | Safety clip | Order code | Type of spring | Cutting force (kg) | Copper wire ( Ø mm) | Copper wire (awg) |
|------------|----------------|-------------|------------|----------------|--------------------|---------------------|-------------------|
| TR 30 10   | TR 30 10 D     | -           | -          | -              | 5.5                | 1.30                | 16                |

### TR 30 15



**TR 30 15:** Tool for a perfect clean and flush cut. It cuts the component lead at 1.5mm from the surface. Steel thickness 3.0mm. Tool length 138mm. ESD-safe handles version available.

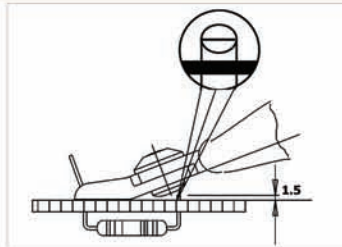


| Order code | ESD Order code | Safety clip | Order code | Type of spring | Cutting force (kg) | Copper wire ( Ø mm) | Copper wire (awg) |
|------------|----------------|-------------|------------|----------------|--------------------|---------------------|-------------------|
| TR 30 15   | TR 30 15 D     | -           | -          | -              | 5.5                | 1.30                | 16                |

### TR 50 15



**TR 50 15:** Strong tool for a clean and flush cut. It cuts the component lead at 1.5 mm from the surface. Steel thickness 5.0mm. Tool length 138mm. ESD-safe handles version available.

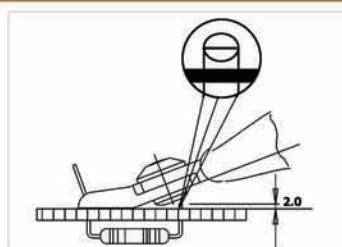


| Order code | ESD Order code | Safety clip | Order code | Type of spring | Cutting force (kg) | Copper wire ( Ø mm) | Copper wire (awg) |
|------------|----------------|-------------|------------|----------------|--------------------|---------------------|-------------------|
| TR 50 15   | TR 50 15 D     | -           | -          | -              | 8                  | 1.60                | 14                |

### TR 50 20



**TR 50 20:** Strong tool for a clean and flush cut. It cuts the component lead at 2 mm from the surface. Steel thickness 5.0mm. Tool length 138mm. ESD-safe handles version available.



| Order code | ESD Order code | Safety clip | Order code | Type of spring | Cutting force (kg) | Copper wire ( Ø mm) | Copper wire (awg) |
|------------|----------------|-------------|------------|----------------|--------------------|---------------------|-------------------|
| TR 50 20   | TR 50 20 D     | -           | -          | -              | 8                  | 1.60                | 14                |



# Cutters *oblique or vertical cut*

## TR 20 VM

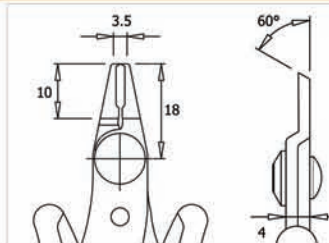


### TR 20 VM

Tool for a front, flush cut. The reduced size and the special 60° angle permits the tool to be easily used in difficult to reach areas.

Steel thickness 2.0mm. Tool length 132mm

ESD-safe handles version available



| Order code | ESD Order code | Safety clip | Order code | Type of spring | Cutting force (kg) | Copper wire ( Ø mm) | Copper wire (awg) |
|------------|----------------|-------------|------------|----------------|--------------------|---------------------|-------------------|
| TR 20 VM   | TR 20 VM D     | -           | -          | -              | 2.0                | 0.64                | 22                |

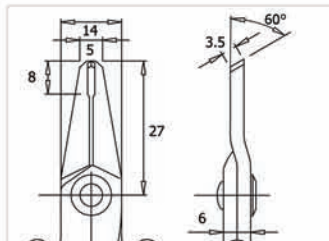
## TR 30 V



**TR 30 V:** Tool for a front, clean, flush cut. The special 60° angle permits the tool to be easily used in difficult to reach areas.

Steel thickness 3.0mm. Tool length 144mm.

ESD-safe handles version available



| Order code | ESD Order code | Safety clip | Order code | Type of spring | Cutting force (kg) | Copper wire ( Ø mm) | Copper wire (awg) |
|------------|----------------|-------------|------------|----------------|--------------------|---------------------|-------------------|
| TR 30 V    | TR 30 V D      | -           | -          | -              | 3                  | 1.02                | 18                |

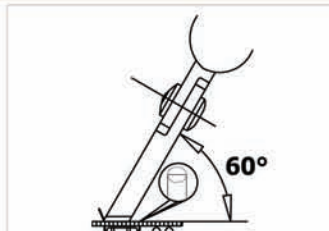
## TR 5000 V



**TR 5000 V:** Special 60° angled tool for a front, flush cut, ideal to work in difficult to reach areas. Similar to TR 30 V but with 5mm steel thickness.

Steel thickness 5.0mm. Tool length 147mm.

ESD-safe handles version available



| Order code | ESD Order code | Safety clip | Order code | Type of spring | Cutting force (kg) | Copper wire ( Ø mm) | Copper wire (awg) |
|------------|----------------|-------------|------------|----------------|--------------------|---------------------|-------------------|
| TR 5000 V  | TR 5000 V D    | -           | -          | -              | 3.5                | 1.30                | 16                |

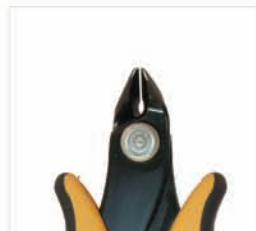
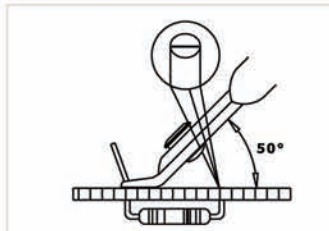
## TR 25 50



**TR 25 50:** Tool for a flush cut, with inclined 50° blades, for specific work in electronics.

Steel thickness 2.5mm. Tool length 135mm.

ESD-safe handles version available



| Order code | ESD Order code | Safety clip | Order code | Type of spring | Cutting force (kg) | Copper wire ( Ø mm) | Copper wire (awg) |
|------------|----------------|-------------|------------|----------------|--------------------|---------------------|-------------------|
| TR 25 50   | TR 25 50 D     | -           | -          | -              | 5                  | 1.30                | 16                |

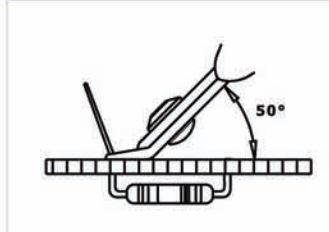
## TR 20 50 M



**TR 20 50 M:** Particularly thin nose tool for a flush cut with inclined 50° blades. Ideal to work in difficult to reach areas.

Steel thickness 2.0mm. Tool length 131mm.

ESD-safe handles version available



| Order code | ESD Order code | Safety clip | Order code | Type of spring | Cutting force (kg) | Copper wire ( Ø mm) | Copper wire (awg) |
|------------|----------------|-------------|------------|----------------|--------------------|---------------------|-------------------|
| TR 20 50 M | TR 20 50 M D   | -           | -          | -              | 2                  | 0.64                | 22                |

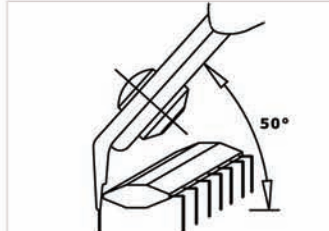
## TR 30 T



**TR 30 T:** Tool 50° angled for the cutting of integrated circuit pins.

Steel thickness 3.0mm. Tool length 137mm.

ESD-safe handles version available

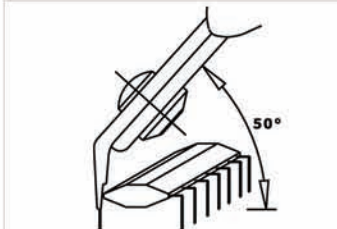


| Order code | ESD Order code | Safety clip | Order code | Type of spring | Cutting force (kg) | Copper wire ( Ø mm) | Copper wire (awg) |
|------------|----------------|-------------|------------|----------------|--------------------|---------------------|-------------------|
| TR 30 T    | TR 30 T D      | -           | -          | -              | 2.5                | 1.02                | 18                |

## TR 20 TM



**TR 20 TM:** Tool for the cutting of integrated circuit pins. The reduced size of the its blades, angled at 50°, allows the pins cut when pins are very close to each other. Steel thickness 2.0mm. Tool length 129mm. ESD-safe handles version available

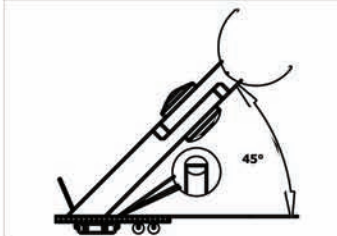


| Order code | ESD Order code | Safety clip | Order code | Type of spring | Cutting force (kg) | Copper wire ( Ø mm) | Copper wire (awg) |
|------------|----------------|-------------|------------|----------------|--------------------|---------------------|-------------------|
| TR 20 TM   | TR 20 TM D     | -           | -          | -              | 2                  | 0.64                | 22                |

## TR 5045 V



**TR 5045 V:** Tool for a front, flush cut, 45°angled. Steel thickness 5.0mm. Tool length 147mm. ESD-safe handles version available



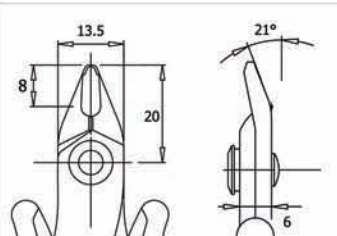
| Order code | ESD Order code | Safety clip | Order code | Type of spring | Cutting force (kg) | Copper wire ( Ø mm) | Copper wire (awg) |
|------------|----------------|-------------|------------|----------------|--------------------|---------------------|-------------------|
| TR 5045 V  | TR 5045 V D    | -           | -          | -              | 3                  | 1.30                | 16                |

# Cutters *induction/tungsten blade treatment*

## ITR 30



**ITR 30:** Strong tool for a flush cut. Special INDUCTION treatment of blades. For the cutting of copper and ferrous materials. Safety clip for holding wire scraps securely after cutting available. Steel thickness 3.0mm. Tool length 138mm. ESD-safe handles version available.

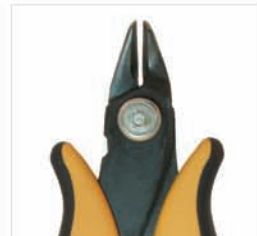
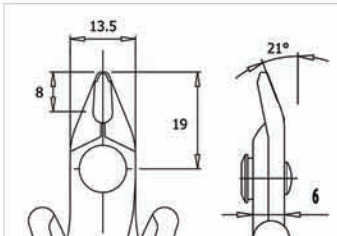


| Order code | ESD Order code | Safety clip | Order code | Spring | Copper wire (Ømm/awg) | Ferrous wire (Ø mm/awg) | Steel wire (Ø mm/awg) |
|------------|----------------|-------------|------------|--------|-----------------------|-------------------------|-----------------------|
| ITR 30     | ITR 30 D       | ITR 30 A    | -          | AL     | 1.30/16               | 1.02/18                 | -/-                   |

## ITR 58 R



**ITR 58 R:** Strong tool for a flush cut. Special INDUCTION treatment of blades. For the cutting of copper and ferrous materials. Safety clip for holding wire scraps securely after cutting available. Steel thickness 3.0mm. Tool length 138mm.

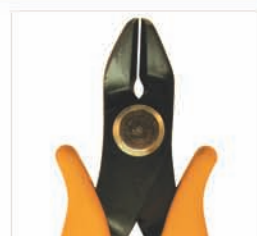
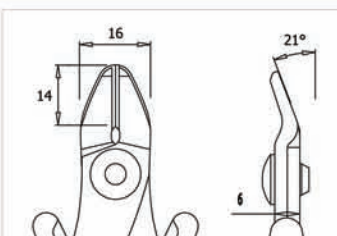


| Order code | ESD Order code | Safety clip | Order code | Spring | Copper wire (Ømm/awg) | Ferrous wire (Ø mm/awg) | Steel wire (Ø mm/awg) |
|------------|----------------|-------------|------------|--------|-----------------------|-------------------------|-----------------------|
| ITR 58 R   | ITR 58 R D     | ITR 58 R A  | -          | AL     | 2.05/12               | 1.63/14                 | -/-                   |

## ITRR 58 G



**ITRR 58 G:** Strong tool for a flush cut. Special INDUCTION treatment of blades. For the cutting of copper and ferrous materials. Steel thickness 3.0mm. Tool length 160mm. ESD-safe handles version available

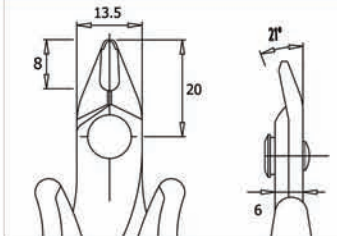


| Order code | ESD Order code | Safety clip | Order code | Spring | Copper wire (Ømm/awg) | Ferrous wire (Ø mm/awg) | Steel wire (Ø mm/awg) |
|------------|----------------|-------------|------------|--------|-----------------------|-------------------------|-----------------------|
| ITRR 58 G  | ITRR 58 G D    | -           | -          | -      | 2.59/10               | 1.63/14                 | -/-                   |

## ITR 30 58



**ITR 30 58:** Strong tool for a chamfered cut. Special INDUCTION treatment of blades. For the cutting of copper and ferrous materials. Safety clip for holding wire scraps securely after cutting available. Steel thickness 3.0mm. Tool length 138mm. ESD-safe handles version available



| Order code | ESD Order code | Safety clip | Order code | Spring | Copper wire (Ømm/awg) | Ferrous wire (Ø mm/awg) | Steel wire (Ø mm/awg) |
|------------|----------------|-------------|------------|--------|-----------------------|-------------------------|-----------------------|
| ITR 30 58  | ITR 30 58 D    | ITR 30 58 A | -          | AL     | 1.63/14               | 1.30/16                 | -/-                   |



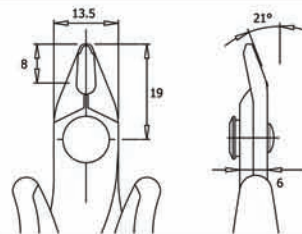
cutters



## ITR 58

**ITR 58**

Strong tool for a chamfered cut. Special INDUCTION treatment of blades. For the cutting of copper and ferrous materials. Safety clip for holding wire scraps securely after cutting available  
Steel thickness 3.0mm. Tool length 138mm.  
ESD-safe handles version available

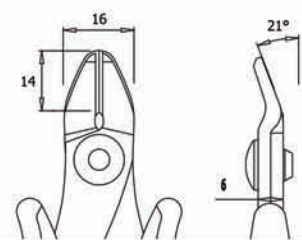


| Order code | ESD Order code | Safety clip | Order code | Spring | Copper wire (Ømm/awg) | Ferrous wire (Ø mm/awg) | Steel wire (Ø mm/awg) |
|------------|----------------|-------------|------------|--------|-----------------------|-------------------------|-----------------------|
| ITR 58     | ITR 58 D       | ITR58 A     |            | AL     | 2.05/12               | 1.63/14                 | -/-                   |

## ITRR 58



**ITRR 58:** Strong tool for a chamfered cut. Special INDUCTION treatment of blades. For the cutting of copper and ferrous materials.  
Steel thickness 3.0mm. Tool length 160mm.  
ESD-safe handles version available

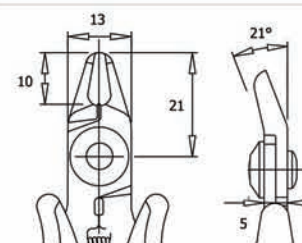


| Order code | ESD Order code | Safety clip | Order code | Spring | Copper wire (Ømm/awg) | Ferrous wire (Ø mm/awg) | Steel wire (Ø mm/awg) |
|------------|----------------|-------------|------------|--------|-----------------------|-------------------------|-----------------------|
| ITRR 58    | ITRR 58 D      | -           |            | -      | 2.59/10               | 1.63/14                 | -/-                   |

## ITR 5000



**ITR 5000:** Strong tool for a chamfered cut. Special INDUCTION treatment of blades. For the cutting of copper and ferrous materials. Safety clip for holding wire scraps securely after cutting available  
Steel thickness 5.0mm. Tool length 138mm.  
ESD-safe handles version available

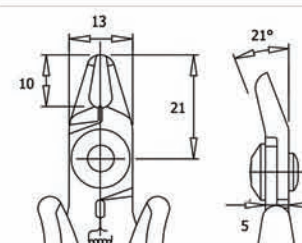


| Order code | ESD Order code | Safety clip | Order code | Spring | Copper wire (Ømm/awg) | Ferrous wire (Ø mm/awg) | Steel wire (Ø mm/awg) |
|------------|----------------|-------------|------------|--------|-----------------------|-------------------------|-----------------------|
| ITR 5000   | ITR 5000 D     | ITR 5000 A  |            | AF     | 2.05/12               | 1.63/14                 | -/-                   |

## TTR 5000



**TTR 5000:** Strong tool for a chamfered cut. Special TUNGSTEN treatment of blades. Ideal for the cutting of copper, ferrous materials and other hard components such as steel. Safety clip for holding wire scraps securely after cutting available  
Steel thickness 5.0mm. Tool length 138mm.  
ESD-safe handles version available

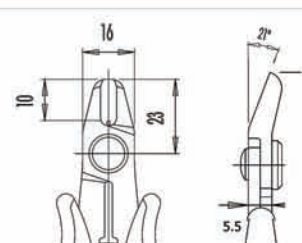


| Order code | ESD Order code | Safety clip | Order code | Spring | Copper wire (Ømm/awg) | Ferrous wire (Ø mm/awg) | Steel wire (Ø mm/awg) |
|------------|----------------|-------------|------------|--------|-----------------------|-------------------------|-----------------------|
| TTR 5000   | TTR 5000 D     | TTR 5000 A  |            | AF     | 2.05/12               | 1.63/14                 | 0.6/22                |

## TTR 5500



**TTR 5500:** Strong tool for a chamfered cut. Special TUNGSTEN treatment of blades. Ideal for the cutting of copper, ferrous materials and other hard components such as steel wire. Stronger than TTR5000.  
Steel thickness 5.5mm. Tool length 155mm.  
ESD-safe handles version available



| Order code | ESD Order code | Safety clip | Order code | Spring | Copper wire (Ømm/awg) | Ferrous wire (Ø mm/awg) | Steel wire (Ø mm/awg) |
|------------|----------------|-------------|------------|--------|-----------------------|-------------------------|-----------------------|
| TTR 5500   | TTR 5500 D     | -           |            | -      | 2.59/10               | 2.05/12                 | 0.8/20                |



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