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# Bird series
# Bird Pro series

*The experts in riveting technologies*

GESIPA®

# THE NEW GENERATION OF BATTERY TECHNOLOGY

Fast, powerful and virtually no wear!

The Bird generation with brushless motor – reliability for a high run and fast work sequence.

***AccuBird® Pro***

***PowerBird® Pro***

***PowerBird® Pro***
***Gold Edition***

***PowerBird® Pro***
***Gold Edition with spring-loaded trigger system***

# THE NEXT GENERATION OF BATTERY-POWERED BLIND RIVET TECHNOLOGY

60 years experience, 60 years expertise. Fast and powerful as never before: the **Bird Pro series**.

**The Bird Pro series**
GESIPA®, who invented battery-powered blind riveting technology, has been producing the Bird series for over twenty years now. To this day, it sets the standard for the battery-powered blind riveting devices market. Not least, due to changing customer requirements, the Bird family's modular system is updated on a regular basis. GESIPA® has therefore built a new platform that supplement the current Bird series to meet the highest customer requirements.

**Special features**

**1 Auto reverse function**
Immediately after mandrel break-off, this optional operating mode stops the pulling process and moves the jaw assembly back into the initial position. This saves time and energy while making sure the tool is immediately ready for use.

**2 Lighting**
The light-emitting diodes precisely aligned to the work piece are integrated into the adjusting ring. There are three possible switch positions:
**Process controlled:** The diodes remain illuminated after the setting process, which allows a continuous workflow even under bad lighting conditions
**Torch function:** Steady glow of diode for max. 10 minutes
**Lighting off:** Saves electricity

**3 Sliding battery**
New sliding battery with exact optical and acoustic charging status display prevents unpleasant surprises. The deep sleep function and the electrical feedback of the braking energy extend the battery range – a battery charge lasts for up to 2,000 riveting operations. Additional catching grids prevent falling.

**4 Charging unit**
Charging unit with quick-charge function. The battery can be used again after only 45 minutes of charging, and is fully charged after just 90 minutes.

**2**

**3**

**4**

# ADVANTAGES OF THE BIRD PRO SERIES

High **efficiency**, long **service life**, particularly **smooth running**

**BLDC technology**
A BLDC motor is a brushless DC motor that, instead of brushes that are susceptible to wear, uses electrical sensors to detect the rotor's position and commutate the stator coil via circuit breakers. A special software in the electronics controls the motor.

The advantages of a BLDC motor include **high efficiency, long service life, particulary smooth running** with a precision ball bearing and a reduction in electrical noise radiation.

**Li-ion battery**
The GESIPA® Bird Pro series is equipped as standard with a new rechargeable 2.1 Ah Li-ion slide-on battery. These rechargeable Li-ion batteries feature the Deep Sleep function. To keep intrinsic consumption as low as possible, after a set idle time, the battery automatically assumes "Deep Sleep" mode. By turning on the device the battery is automatically woken and is immediately ready for use.

**Charging technology**
The GESIPA® Li-ion chargers are available for 110 V to 240 V AC voltages. The charger comes with a Euro plug as standard. Other versions for China, UK and USA are available on request.

### Advantages at a glace

- More powerful and longer-lasting **BLDC motor** for quick flow of work
- **25 mm stroke** for long blind rivets
- **Up to 20 kN setting force** for particularly large blind rivets
- **Variable lighting** in the adjusting ring
- Increased **stability** due to larger, non-slip stand surface and lower center of gravity
- Easy-to-grasp housing thanks to **Softgrip**
- New **sliding battery**
- Charging unit with **quick-charge function**
- Shortened pulling process thanks to the **auto reverse function for quicker flow of work**
- **Well proven and virtually no wear:** the patented jaw system provides a very long service life and helps saving spare part costs
- **Ergonomical design:** rubberised, moulded grip and a balanced center of gravity



# BATTERY-POWERED BLIND RIVET SETTING TOOLS WITH BRUSHLESS MOTOR

***AccuBird® Pro***
**The fast one**
– up to 4x faster than other battery-powered tools on the market!

The brushless motor and 10,000 N setting force make the AccuBird® Pro extremely fast for setting blind rivets of any material up to Ø 5 mm.

***PowerBird® Pro***
**The all-rounder**
– exceptional speed and high power!

With a setting force of 15,000 N and the well-proven brushless motor, the PowerBird® Pro is powerful and fast when setting blind rivets up to Ø 6.4 mm in any material.

***PowerBird® Pro***
***Gold Edition***
**The strong one**
– for high volumes and fast working sequences!

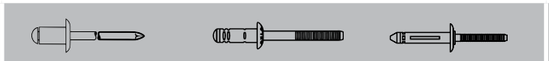
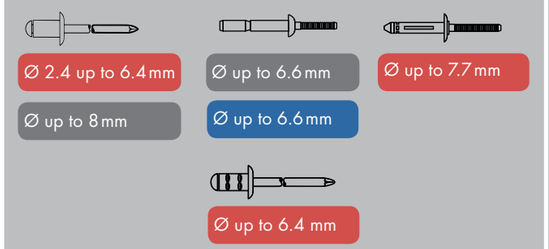
Thanks to the brushless motor and the 20,000 N setting force the PowerBird® Pro Gold Edition is even more powerful and can even set G-Bulb and PolyGrip® blind rivets up to Ø 6.4 mm in any material.

***PowerBird® Pro***
***Gold Edition with spring-loaded trigger system***
**The secure one**
– the well-proven solution for a reliable gap free riveting process!

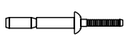
For high operating safety and optimal setting results.

# TECHNICAL DATA BIRD PRO SERIES

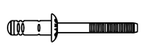
The Bird Pro series deals easily with a wide range of applications and requirements.

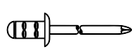
| Tool | Material / Ø | Setting force | Power unit | Stroke | Battery | Weight | Equipment | Part no. |
|---|---|---|---|---|---|---|---|---|
| **AccuBird® Pro** |  Ø 2.4 up to 5.0 mm; Ø up to 4.8 mm; Ø up to 4.0 mm; Ø up to 6 mm; Ø up to 5,2 mm; Ø up to 5.2 mm** | 10,000 N | Brushless DC motor (BLDC) | 25 mm | 18 Volt 2.1 Ah | 2.0 kg with battery | Nosepieces: 17/24, 17/27, 17/29, 17/32<br>Maintenance wrench SW12<br>Sliding battery 18 Volt/2.1 Ah, Charger | **143 5447** |
| **PowerBird® Pro** | Ø 2.4 up to 6.4 mm**; Ø up to 6.4 mm; Ø up to 7.7 mm; Ø up to 8 mm* | 15,000 N | Brushless DC motor (BLDC) | 25 mm | 18 Volt 2.1 Ah | 2.0 kg with battery | Nosepieces: 17/32, 17/36, 17/40, 17/45<br>Maintenance wrench SW12<br>Sliding battery 18 Volt/2.1 Ah, Charger | **145 0810** |
| **PowerBird® Pro**<br>**Gold Edition** |  Ø 2.4 up to 6.4 mm; Ø up to 6.6 mm; Ø up to 7.7 mm; Ø up to 8 mm; Ø up to 6.6 mm; Ø up to 6.4 mm | 20,000 N | Brushless DC motor (BLDC) | 25 mm | 18 Volt 2.1 Ah | 2.0 kg with battery | Nosepieces: 17/32, 17/36, 17/40, 17/45<br>Maintenance wrench SW12<br>Sliding battery 18 Volt/2.1 Ah, Charger | **145 7636** |
| **PowerBird® Pro**<br>**Gold Edition with spring-loaded trigger system** | Ø 2.4 up to 6.4 mm; Ø up to 6.4 mm; Ø up to 7.7 mm; Ø up to 8 mm | 20,000 N | Brushless DC motor (BLDC) | 25 mm | 18 Volt 2.1 Ah | 2.0 kg with battery | Nosepieces: 17/32, 17/36, 17/40, 17/45<br>Maintenance wrench SW12<br>Sliding battery 18 Volt/2.1 Ah, Charger | **145 7638** |

Standard blind rivet

 MEGA GRIP®

BULB-TITE®*

 G-Bulb

 PolyGrip®

All materials | Alu | Steel/steel

*except G-Bulb 6.4 ø

**special accessory required

# THE BIRD FAMILY

Reliable and well-proven – for more than 20 years

# FROM THE CREATOR OF THE BATTERY-POWERED BLIND RIVET SETTING TOOL

The battery-powered riveting tool series for professional and versatile use in trade and industry.

**The Bird family**
The development of this Bird series for professional use by specialists and industrial users made GESIPA® the inventor of the cable-free and hose-free blind rivet setting technology.

The great success of the maintenance-friendly constructed Bird series is due to the following advantages.

**Practical aspects**
- Exchange nosepieces and wrench always included in the tool
- Compact, shockproof tool housing
- Spent mandrel evacuation into the mandrel container through backfilling and forwards through the nosepiece by gravity
- Fatigue-free working through well balanced weight repartition and ergonomic grip

**Casing and accessories**
- Exchange for nosepieces and wrench on the device
- Less frequent emptying due to the large spent mandrel container
- Optimized accessories and special models for many applications

**With Li-ion energy**
- No memory effect
- High energy yield through high voltage and low weight for easy and fast operation
- Extremely low self discharge
- Battery shape allows the tool to be stored standing on its battery

**Mechanics, control system and battery**
- Reliable connection of the mechanics and control system
- Cast control system is water and dust-tight
- User-friendly pluggable rechargeable battery

***AccuBird®***

***PowerBird®***

***PowerBird®*** **Gold Edition**

***PowerBird® Solar***

# THE BIRD SERIES – INTELLIGENT ENERGY

Lithium-ion technology as mobile power supply for the battery-powered blind rivet setting tools

**Li-ion batteries**
The GESIPA® battery-powered setting tool AccuBird® is equipped as standard with a 1.3 Ah Li-Ion battery. The GESIPA® PowerBird® is supplied with a 2.6 Ah Li-Ion battery. These rechargeable Li-ion batteries feature the Deep Sleep function. To keep intrinsic consumption as low as possible, after a set idle time, the battery automatically assumes "Deep Sleep" mode. The battery can then only be woken in the battery charger and is immediately ready for use.

The powerful 2.6 Ah battery is also optionally available as a special accessory for the AccuBird®. Older tools can of course also be operated with the new Li-Ion batteries. Due to the different charging principle used in the Li-Ion technology, the charging unit must also be replaced when switching over to Li-Ion batteries; the proven charging units for NiCd batteries are however still available.

**Charging technology**
A special, intelligent circuit in the GESIPA® Li-ion batteries protects against deep discharging, and ensures that the last setting cycle can be completed, before the battery signals its empty condition by switching off. The empty battery is ready for use again after a charging time of only about one hour. The GESIPA® Li-ion charging units are of course also available for the alternating voltages of 110 AC to 230 AC.

**The most important advantages of Li-ion technology**

- Currently the most **efficient mobile power supply**
- Low **weight**
- High **energy storage capacity** (90-110 Wh/kg)
- **Long storage capability** due to low self-discharging
- No memory- or lazy-battery effect – **low maintenance requirement**
- **Constant output voltage** over the complete discharge period
- Large number of **loading cycles**
- **Long service life**



# THE BIRD SERIES

Reliability, high performance, versatility

***AccuBird®***

The well-proven blind rivet setting tools with Li-Ion energy

Developed and produced in Germany since 1992 by the inventor of the battery blind rivet setting tool.

***PowerBird®***

The well-proven blind rivet setting tool with Li-ion energy and even higher setting performance

The powerful extension of the Bird family from GESIPA® with many capabilities. He is able to cope with almost all structural blind rivets.

***PowerBird®***
***Gold Edition***

The exclusive Gold edition with 18,000 N setting force

With a setting force of 18,000 N it can even set G-Bulb and PolyGrip® blind rivets up to a diameter of 6.4 mm in all materials.

***PowerBird®***
***Solar***

Ideal for deep, difficult to access areas in solar applications

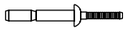
Blind rivets from Ø 4.8 mm steel up to 6.4 mm all materials with a setting force of 14,000 N. The ideal tool for the safe handling of SolarGrip® special rivets thanks to the standard extension unit and the optional spring-loaded trigger system.

# TECHNICAL DATA BIRD SERIES

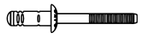
The Bird series deals easily with a wide range of applications and requirements.

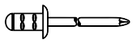
| Tool | Material / Ø | Setting force | Power unit | Stroke | Battery | Weight | Equipment | Part no. |
|---|---|---|---|---|---|---|---|---|
| **AccuBird®** | Ø 2.4 up to 5.0 mm<br>Ø up to 4.8 mm<br>Ø up to 4.0 mm<br>Ø up to 6 mm<br>Ø up to 5,2 mm<br>Ø up to 5.2 mm** | 10,000 N | DC motor | 20 mm | 14.4 Volt<br>1.3 Ah | 2.0 kg<br>with battery | Nosepieces: 17/24, 17/27, 17/29, 17/32<br>Maintenance wrench SW12<br>Battery 14.4 Volt/2.6 Ah,<br>Charger | **143 4898** |
| **PowerBird®** | Ø 2.4 up to 6.4 mm<br>Ø up to 6.4 mm<br>Ø up to 7.7 mm<br>at 7.7 mm**<br>Ø up to 8 mm* | 14,000 N | DC motor | 20 mm | 14.4 Volt<br>2.6 Ah | 2.2 kg<br>with battery | Nosepieces: 17/32, 17/36, 17/40, 17/45<br>Maintenance wrench SW12<br>Battery 14.4 Volt/2.6 Ah,<br>Charger | **145 7186** |
| **PowerBird®**<br>**Gold Edition** | Ø 2.4 up to 6.4 mm<br>Ø up to 6.6 mm<br>Ø up to 7.7 mm<br>at 7.7 mm**<br>Ø up to 6.6 mm<br>Ø up to 6.4 mm<br>Ø up to 6.4 mm | 18,000 N | DC motor | 20 mm | 14.4 Volt<br>2.6 Ah | 2.2 kg<br>with battery | Nosepieces: 17/32, 17/36, 17/40, 17/45<br>Maintenance wrench SW12<br>Battery 14.4 Volt/2.6 Ah,<br>Charger | **145 7179** |
| **PowerBird®**<br>**Solar** | Ø 2.4 up to 6.4 mm*<br>Ø up to 6.4 mm<br>Ø up to 7.7 mm<br>at 7.7 mm** | 14,000 N | DC motor | 20 mm | 14.4 Volt<br>2.6 Ah | 2.4 kg<br>with battery | Nosepieces: 17/32, 17/36, 17/40, 17/45,<br>17/48 BT<br>two batteries 14.4 Volt/2.6 Ah,<br>Charger<br>approx. 167 mm extension unit | **145 7191** |

Standard blind rivet

 MEGA GRIP®

BULB-TITE®

 G-Bulb

 PolyGrip®

All materials

Alu

Steel/steel

*except G-Bulb 6.4 Ø

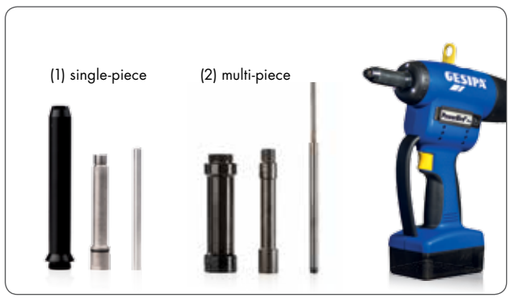
**special accessory required

# ACCESSORIES FOR THE BIRD SERIES/BIRD PRO SERIES

The wide range of accessories allows the tool to be adapted to deal with almost any challenge. Whether in trade, in the construction industry or in industrial applications.

### *Extension units*

Allows easy access to rivet sites which are difficult to access




1) The extension units are used for riveting sites which are situated low down or are difficult to access.
The **one-piece extension** units replace steel head sleeves, are extremely slim and therefore particularly suitable where space is restricted. One-piece extension units are offered in different sizes for all tools.
The extension unit consists of three parts: the steel head sleeve, the jaw pusher and the adapter. The total length equals the length from the steel sleeve plus the standard nosepiece.

(2) The **multi-piece extension units** are screwed in between the tool and the existing steel sleeve. The total length equals the length of the steel sleeve plus the extension.
The multi-piece extension units allow the steel sleeve to be extended variably in 100 mm stages.

### *Retaining nosepiece*

Working even in vertical position without difficulties

Thanks to the retaining nosepiece the inserted rivet stays in any position due to elasticity. Even in vertical riveting processes the rivet is held securely in the tool.
Retaining nosepieces are available in different sizes for all tools except PowerBird® Solar.

### *Spring-loaded trigger system*

For gap-free riveting of components

The spring-loaded trigger system ensures that the parts to be riveted reliably make contact without any gaps before riveting. Furthermore, the operator will be certain that the blind rivet has reached its end position in the hole before setting and the setting head is in contact with the material. The pressing force can be varied with springs depending on the application.
The spring-loaded trigger system is available for AccuBird®, PowerBird®, AccuBird® Pro, PowerBird® Pro and PowerBird® Pro Gold Edition on request.

### *Transparent spent mandrel container*

Residual mandrels always controlable

The classic spent mandrel container of the Bird Pro series is also available in a transparent version. This allows you to keep an eye on the amount of spent mandrels.

### *Extension for spent mandrel container*

Fitting for AccuBird® and PowerBird® as well as for the Bird Pro series in two different sizes – working longer, less frequent emptying.

### *Universal nosepiece for AccuBird®*

The universal nosepiece replaces up to five nosepiece sizes.
The integrated rotary star in the steel sleeve can be unlocked easily without tools in order to select the appropriate size of nosepiece.
This helps saving time when riveting different blind rivet sizes.

### *Angle head 90° compact for AccuBird® and PowerBird®*
### *Angle head 90° compact for the Bird Pro series*

High setting force and easy access in tight installation areas

The angle head 90° compact and the angle head 90° are designed for use in very narrow and confined spaces. The rugged design makes it possible to set blind rivets with a high setting force even in working areas that are difficult to access. They can be positioned freely in every position (360°) on the tensile axis.
The angle head 90° compact can set standard blind rivets with a setting force up to 10 kN, the angle head 90° can set standard blind rivets with a setting force up to 20 kN.

# ACCESSORIES BIRD SERIES

| Accessories | Picture | AccuBird® | PowerBird® | PowerBird® Gold Edition | PowerBird® Solar |
|---|---|---|---|---|---|
| **Jaws** (spare parts) | | **143 4958** | **143 4104** | **143 4104** | **143 4173** |
| **Battery** 1.4 V/1.3 Ah (Li-Ion) | | **143 4921** | **145 7269** | **145 7269** | **145 7269** |
| **Power battery** 1.4 V/2.6 Ah (Li-Ion) | | **143 4921** | **143 4921** | **143 4921** | **143 4921** |
| **Charger** for 14.4 V Li-Ion battery | | **145 7282** | **145 7282** | **145 7282** | **145 7282** |
| **Extension unit 50 mm** (single-piece) | | **145 7273** | **145 7214** | **145 7214** | – |
| **Extension unit 100 mm** (single-piece) | | **145 7274** | **145 7215** | **145 7215** | – |
| **Extension unit 150 mm** (single-piece) | | **145 0622** | **146 4038** | **146 4038** | – |
| **Extension unit** (multi-piece per 100 mm) | | **145 7318** | **145 7229** | **145 7229** | – |
| **Extension for spent mandrel container** | | **143 5034** | **143 5034** | – | – |
| **Angle head 90° compact** | | **145 7252** | **145 7252** | – | – |
| **Universal nosepiece** | | **143 4960** | – | – | – |
| **Nosepiece** | | See chart nosepieces on page 18/19 | | | |
| **Retaining nosepiece** | | See chart nosepieces on page 18/19 | | | |

# ACCESSORIES BIRD PRO SERIES

| Accessories | Picture | AccuBird® Pro | PowerBird® Pro | PowerBird® Pro Gold Edition | PowerBird® Pro Gold Edition with spring-loaded trigger system |
|---|---|---|---|---|---|
| **Jaws** (spare parts) | | **143 5568** | **143 5568** | **143 5568** | **143 5568** |
| **Sliding battery** 18.0 V/2.1 Ah (Li-Ion) | | **145 7641** | **145 7641** | **145 7641** | **145 7641** |
| **Charger** for 18.0 V Li-Ion battery | | **145 7642** | **145 7642** | **145 7642** | **145 7642** |
| **Transparent spent mandrel container** | | **145 0837** | **145 0837** | **145 0837** | **145 0837** |
| **Extended spent mandrel container 30mm 60mm** | | **145 0838 145 0839** | **145 0838 145 0839** | **145 0838 145 0839** | **145 0838 145 0839** |
| **Extension unit +35 mm** (single-piece) | | **145 0860** | **145 7650** | **145 7650** | – |
| **Extension unit +85 mm** (single-piece) | | **145 0861** | **145 7651** | **145 7651** | – |
| **Extension unit +135 mm** (single-piece) | | **145 0862** | **145 0823** | **145 0823** | – |
| **Extension unit +50 mm** (single-piece) | | – | – | – | **145 0821** |
| **Extension unit +100 mm** (single-piece) | | – | – | – | **145 0822** |
| **Extension unit** (multi-piece, per 100 mm) | | **145 0859** | **145 0820** | **145 0820** | – |
| **Angle head 90°** | | **146 4882** | **146 4882** | **146 4882** | – |
| **Nosepiece** | | See chart nosepieces on page 18/19 | | | |
| **Retaining nosepiece** | | See chart nosepieces on page 18/19 | | | |

# NOSEPIECES FOR BLIND RIVET SETTING TOOL

## AccuBird®, AccuBird® Pro

| Blind rivet | Blind rivet Ø in mm | Material | approx. pc/battery charge | | Nosepiece | Part no. |
|---|---|---|---|---|---|---|
| | | | AccuBird® Pro | AccuBird® | | |
| Standard | 2.4 | Alu | 1,800 | 1,500 | 17/18 | **143 4976** |
| | 3.2 | CAP®-Alu, CAP®-Cu | 1,300 | 1,000 | 17/18 | **143 4976** |
| | 3 & 3.2 | Alu | 1,100 | 800 | 17/24 | **143 4955** |
| | 3 & 3.2 | Steel | 1,100 | 800 | 17/24 | **143 4955** |
| | 3 & 3.2 | Stainless steel | 1,100 | 800 | 17/24 | **143 4955** |
| | 4.0 | Alu | 1,100 | 800 | 17/24 | **143 4955** |
| | 4.0 | Steel | 1,100 | 700 | 17/27 | **143 4973** |
| | 4.0 | Stainless steel | 940 | 640 | 17/29 | **143 4974** |
| | 4.8 & 5 | Alu | 850 | 550 | 17/29 | **143 4974** |
| | 4.8 & 5 | Steel | 720 | 420 | 17/32 | **143 4975** |
| | 4.8 & 5 | Stainless steel | 550 | 320 | 17/36 | **143 4977** |
| | 6 | Alu | 400 | 240 | 17/36 | **143 4977** |
| BULB-TITE® | 4.0 | Alu | 1,300 | 1,000 | 17/26 BT | **143 4985** |
| | 5.2 | Alu | 1,100 | 800 | 17/32 BT | **143 4986** |
| | 6.3 | Alu | 800 | 600 | 17/42 BT | **143 4988** |
| | 6.4 | Steel | 550 | 300 | 17/42 BT | **143 4988** |

| Tool | Retaining nosepiece | Part no. |
|---|---|---|
| AccuBird®, AccuBird® Pro | 17/18 R | **143 5010** |
| | 17/24 R | **143 5011** |
| | 17/27 R | **143 5012** |
| | 17/29 R | **143 5013** |



# NOSEPIECES FOR BLIND RIVET SETTING TOOL

## PowerBird®, PowerBird® Gold Edition, PowerBird® Pro Gold Edition

| Blind rivet | Blind rivet Ø in mm | Material | approx. pc/battery charge | | | | Nosepiece | Part no. |
|---|---|---|---|---|---|---|---|---|
| | | | PowerBird® Pro | PowerBird® Pro Gold Edition | PowerBird® | PowerBird® Gold Edition | | |
| Standard | 4.8 & 5.0 | Steel, alu | 1,000 | 1,800 | 700 | 700 | 17/32 | **143 4975** |
| | 4.8 & 5.0 | Stainless steel | 700 | 1.600 | 890 | 890 | 17/36 | **143 4977** |
| | 6.0 | Alu | 650 | 1.000 | 560 | 560 | 17/36 | **143 4977** |
| | 6.0 | Steel | 500 | 650 | 300 | 300 | 17/40 | **143 4999** |
| | 6.4 | Alu, PG-Alu | 550 | 600 | 420 | 420 | 17/45 | **143 4860** |
| | 6.4 | Steel | 450 | 530 | 250 | 250 | 17/45 | **143 4860** |
| | 8 | Alu | 500 | 510 | 350 | 350 | 17/45 | **143 4860** |
| BULB-TITE® | 4.0 | Alu | 1,200 | 1,300 | 1,000 | 1,000 | 17/26 BT | **143 4985** |
| | 5.2 | Alu | 1,000 | 1,200 | 900 | 900 | 17/32 BT | **143 4986** |
| | 6.3 | Alu | 800 | 800 | 590 | 590 | 17/42 BT | **143 4988** |
| | 6.3 | Steel | 700 | 550 | 310 | 310 | 17/42 BT | **143 4988** |
| | 6.3 | Monel | 650 | 600 | 380 | 380 | 17/42 BT | **143 4988** |
| | 7.7 | Alu | 700 | 680 | 470 | 470 | 17/48 BT | **143 4989** |
| MEGA GRIP® | 4.8 | Alu | 800 | 970 | 600 | 600 | 17/31 MG | **143 4993** |
| | 6.4 | Alu | 750 | 940 | 420 | 420 | 17/41 MG | **143 4865** |
| | 4.8 | Steel | 750 | 920 | 420 | 420 | 17/31 MG | **143 4993** |
| | 6.4 | Steel | 300 | 230 | 150 | 150 | 17/41 MG | **143 4865** |
| | 4.8 | Stainless steel | 700 | 900 | 420 | 420 | 17/31 MG | **143 4993** |
| | 6.4 | Stainless steel | 250 | 230 | 150 | 150 | 17/41 MG | **143 4865** |

| Tool | Retaining nosepiece | Part no. |
|---|---|---|
| PowerBird®<br>PowerBird® Gold Edition<br>PowerBird® Pro<br>PowerBird® Pro Gold Edition | 17/32 R | **143 5014** |
| | 17/36 R | **143 5015** |
| | 17/40 R | **145 7347** |
| | 17/45 R | **145 7348** |

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