

# THE BIRD PRO SERIES Battery-powered blind rivet nut tools

The alliance of the best –  
The manufacturer-independent  
battery system sequence



## GESIPA® RELIES ON CAS

### Riveting with the CAS system

Our blind rivet nut setting tools **FireBird® Pro**, **FireBird® Pro Gold Edition** and the **FireBird® Pro S Gold Edition** are equipped with the new CAS batteries since 2021.

## 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, particularly smooth running with a precision ball bearing and a reduction in electrical noise radiation.



**FireBird® Pro**



**FireBird® Pro  
Gold Edition**



**FireBird® Pro S  
Gold Edition**

## Advantages at a glance – Battery-powered blind rivet nut tools with BLDC

### Threaded mandrel

- Mandrel quick-change system
- Nosepiece and mandrel module taken from FireFox®

### LED input field

- Split LED input field
- Switches to energy-saving mode after 15 seconds
- Plastic cover to avoid damage and inadvertently changing the setting
- Presetting in steps of 10 and fine adjustment with 99 individual settings
- 10 freely selectable program memories

### Trigger

- Automatic screw-on after pressing the switch

### Li-Ion battery 18V

- Ultra M technology: Intelligent battery management for long-lasting battery packs
- Patented "AIR COOLED" charging technology
- Permanent Electronic Single Cell Protection (ESCP) when charging, for particularly long life.
- Processor-controlled charge and discharge management
- Capacity display with almost no self-discharge
- Capacity display with almost no self-discharge
- One battery pack for everything. 100% compatibility with all 18 V machines and chargers of the CAS partners

### 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 in bad lighting conditions. **Torch function:** Steady glow of diode (max. 10 minutes). **Lighting off:** saves electricity.



### Threaded mandrel magazine

- Storage of mandrels in the practical, screw-on mandrel magazine
- Three mandrels and matching nosepieces included in scope of delivery

### Autoreverse 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.



# FIREBIRD® PRO

**FireBird® Pro – The new battery powered blind rivet nut tool – for blind rivet nuts up to M8 steel!**



**No. 167 9668**



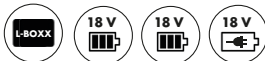
**No. 167 9669**



**No. 167 9670**



**No. 167 9671**



## ADVANTAGES OF SETTING FORCE ADJUSTMENT

- Controlling the tool through setting force adjustment protects material and thread and anchors blind rivet nuts securely in the material
- Quick and easy setting force adjustment via the display
- Does not need to be adjusted in case of changing material thicknesses or different lengths of blind rivet nuts

## TECHNICAL DATA

Weight: 2.4 kg with battery (2.0 Ah)  
 Traction power: 15,000 N  
 Drive: brushless motor  
 Stroke: 10.0 mm

## WORKING RANGE

Blind rivet nuts up to M10 Aluminium, M8 steel and M6 stainless steel

## SCOPE OF DELIVERY

Threaded mandrel and nosepiece M6 (in working position),  
 Threaded mandrel and nosepiece M4 and M5 (in magazine)  
 1x Hexagonal wrench  
 2x Double open ended wrench SW 24/27  
 Card Quick adjustment  
 Card Setting force pre-adjustment  
 Operating manual

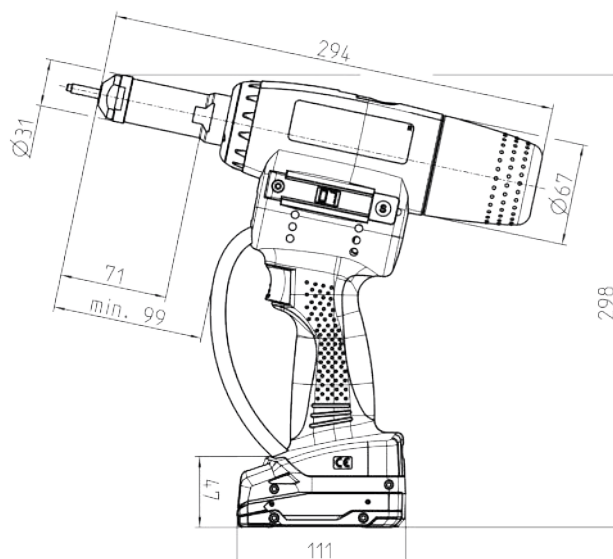


## Child's play!

- 1 Read off number
  - 2 Enter number
  - 3 Set blind rivet nut
- ➔ Done!

## ADVANTAGES

- Foolproof operation
- Virtually no wear by brushless motor
- Modern Li-Ion battery technology
- Controlled solely by the setting force adjustment
- Intelligent error message
- Almost double the pulling displacement from 5.5 to 10 mm
- Fully automatic screw-off procedure



Dimensions in mm

# FIREBIRD® PRO GOLD EDITION

**FireBird® Pro Gold Edition – The new battery powered blind rivet nut tool – for blind rivet nuts up to M12 steel!**



**No. 167 9672**



**No. 167 9673**



**No. 167 9674**



**No. 167 9676**



**1**

|          | M3 | M4 | M5 | M6 | M8 | M10 | M12 |
|----------|----|----|----|----|----|-----|-----|
| in       | 03 | 10 | 20 | 40 | 45 | 50  | 60  |
| mm       | 10 | 40 | 45 | 60 | 75 | 90  | 95  |
| Material | 1F | 3D | 5D | 8S | 9Z | 9F  | -   |

**GESIPA**



Setting force guide – Example: Steel M5

The values given are only guide values. The values should always be set slightly lower when setting for the first time!

## TECHNICAL DATA

Weight: 2.4 kg with battery (2.0 Ah)  
 Traction power: 20,000 N  
 Drive: brushless motor  
 Stroke: 10.0 mm



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Power per battery charge, threaded mandrels and nosepieces **page 225.**

## WORKING RANGE

Blind rivet nuts up to M12 alu and steel and M10 stainless steel.

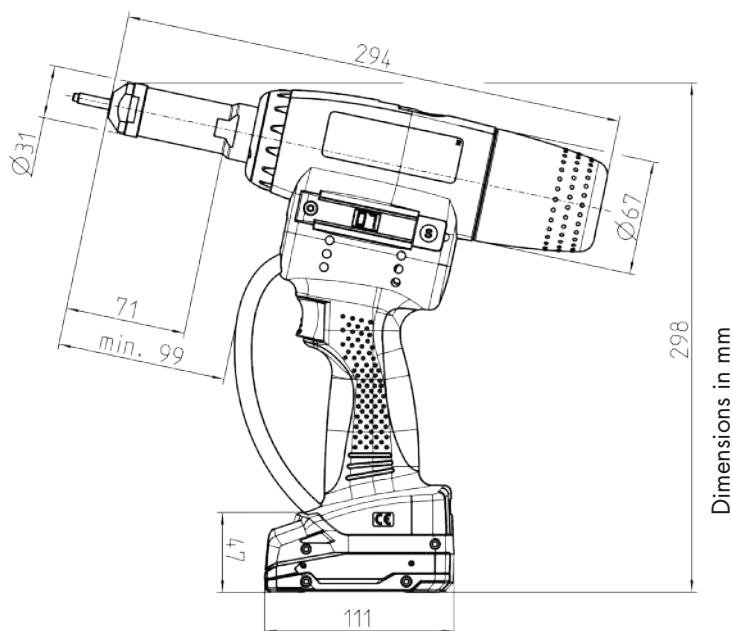
## SCOPE OF DELIVERY

Threaded mandrel and nosepiece M6 (in working position),  
 Threaded mandrel and nosepiece M8 and M10 (in magazine)  
 1x Hexagonal wrench  
 2x Double open ended wrench SW 24/27  
 Card Quick adjustment  
 Card Setting force pre-adjustment  
 Operating manual



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Spare parts, special accessories for FireBird® Pro/FireBird® Pro Gold Edition **page 228.**



Dimensions in mm



# FIREBIRD® PRO S GOLD EDITION

Der FireBird® Pro with  
mechanical stroke setting



with mechanical  
stroke setting

No. 167 9677



No. 167 9678



## WHEN IS STROKE SETTING USED?

A constant set stroke should be used when a blind rivet nut size of the same length is set in unchanging material thicknesses. The set stroke corresponds to the distance the threaded mandrel is drawn into the nosepiece during the setting process and thus how far the blind rivet nut is compressed. With stroke setting, this distance can be adjusted mechanically on the riveting tool.

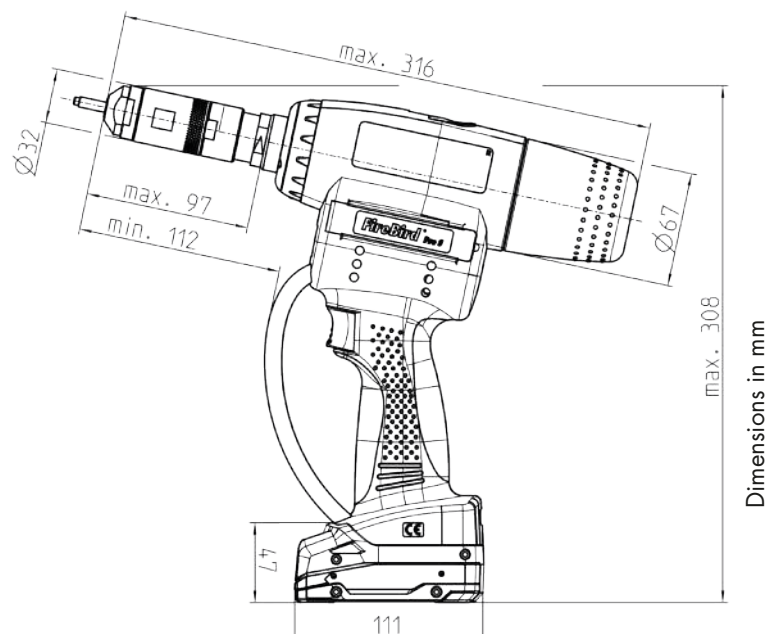
## ADVANTAGES OF STROKE SETTING

- Controlling the tool through stroke setting guarantees the height of the blind rivet nuts is constant after setting, regardless of any small variations in the nut or the material
- Infinitely variable adjustment of the set stroke
- Stroke setting is preferred above all by experienced users and for large series production

## SCOPE OF DELIVERY

Threaded mandrel and nosepiece M6 (in working position),  
Threaded mandrel and nosepiece M8 and M10 (in magazine)  
1x Hexagonal wrench  
2x Double open ended wrench SW 24/27  
1x Double open ended wrench SW 27/30  
Card Quick adjustment  
Card Setting force pre-adjustment  
Operating manual

Technical data, working range and advantages analog to FireBird® Pro Gold Edition



Dimensions in mm

## WORKING RANGE FIREBIRD® PRO GE AND FIREBIRD® PRO S GE:

Sets blind rivet nuts up to M12 alu and steel and M10 stainless steel.

### POWER PER BATTERY CHARGE/THREADED MANDRELS AND NOSEPIECES FOR FIREBIRD® PRO TOOLS

| Inner thread | Material              | approx. pc per charging process FireBird® Pro | Threaded mandrel | Nosepiece | approx. pc per charging process FireBird® Pro GE / FireBird® Pro S GE | Threaded mandrel | Nosepiece |
|--------------|-----------------------|---|------------------|-----------|---|------------------|-----------|
|              |                       |   | No.              | No.       |   | No.              | No.       |
| M3           | Alu                   | 1,200   | 143 6211*        | 143 6218* | 1,200   | 143 6211*        | 143 6218* |
| M3           | Steel/Stainless steel | 1,100   |                  |           | 1,100   |                  |           |
| M4           | Alu                   | 1,100   | 143 6212         | 143 6219  | 1,100   | 143 6212*        | 143 6219* |
| M4           | Steel/Stainless steel | 1,000   |                  |           | 1,000   |                  |           |
| M5           | Alu                   | 950   | 143 6213         | 143 6220  | 950   | 143 6213*        | 143 6220* |
| M5           | Steel/Stainless steel | 900   |                  |           | 900   |                  |           |
| M6           | Alu                   | 900   | 143 6214         | 143 6221  | 900   | 143 6214         | 143 6221  |
| M6           | Steel/Stainless steel | 800   |                  |           | 800   |                  |           |
| M8           | Alu                   | 850   | 143 6215*        | 143 6222* | 850   | 143 6215         | 143 6222  |
| M8           | Steel/Stainless steel | 550   |                  |           | 550   |                  |           |
| M10          | Alu                   | 750   | 143 6216*        | 143 6223* | 750   | 143 6216         | 143 6223  |
| M 10         | Steel/Stainless steel | -   |                  |           | 500   |                  |           |
| M12          | Alu                   | -   | -                | -         | 500   | 143 6217*        | 143 6224* |
| M12          | Steel                 | -   |                  |           | 300   |                  |           |

\*Available as special accessory



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Spare parts, special accessories for FireBird® Pro S Gold Edition **page 228.**



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All threaded mandrels and nose-piece **page 250.**

#### Example and application:

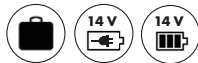
Extended nosepiece and threaded mandrel for difficult-to-access and/or deep-seated applications



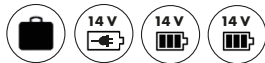
# FIREBIRD®

The reliable blind rivet nut tool with mechanical stroke setting for blind rivet nuts up to M10 Alu.

No. 145 7414



No. 145 7413



more than  
**20 YEARS**  
FireBird®

## TECHNICAL DATA

Weight: 2.1 kg with battery  
Setting force: 13,000 N  
Drive: DC motor  
Stroke: 5.5 mm

## WORKING RANGE

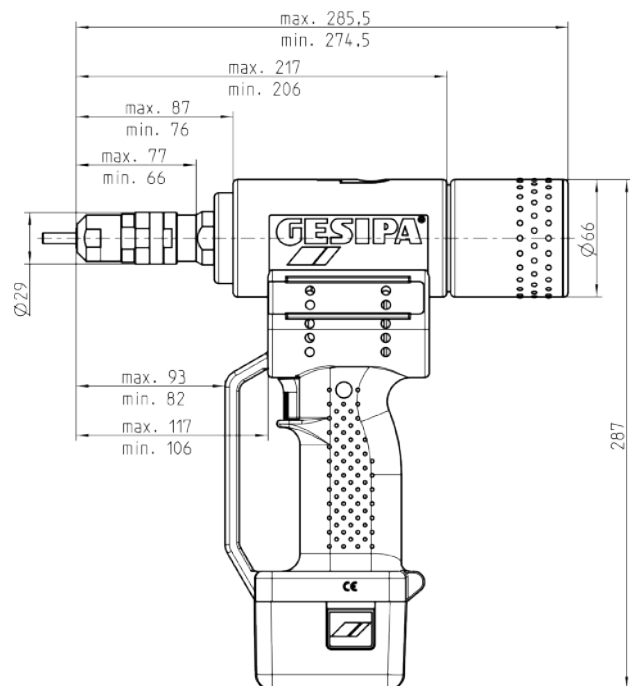
Blind rivet nuts up to M10 aluminium, up to M8 steel and up to M6 stainless steel

## SCOPE OF DELIVERY

Threaded mandrel and nose piece M6 (in working position)  
Threaded mandrel and nose piece M4 und M5 (in magazine)  
1x hexagonal wrench  
2x double open ended wrench SW 24/27  
Operating manual

## ADVANTAGES

- Reduced torque
- Automatic switch-off
- Automatic drill-out function
- High energy density
- Low weight
- Simple and safe drilling of



Dimensions in mm



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Spare parts, special accessories for FireBird® page 228

## FireBird® – Blind rivet nut tool

### POWER PER BATTERY CHARGE/THREADED MANDRELS AND NOSEPIECES

| Blind rivet nuts inner thread | Material              | approx. pc per charging process<br>2,0 Ah Li-Ion battery | No.              |                  |
|-------------------------------|-----------------------|--|------------------|------------------|
|                               |                       |  | Threaded mandrel | Nosepiece        |
| M3                            | Alu                   | <b>1000</b>  | <b>143 5052*</b> | <b>143 5065*</b> |
| M3                            | Steel/Stainless steel | <b>900</b>   |                  |                  |
| M4                            | Alu                   | <b>900</b>   | <b>143 5055</b>  | <b>143 5066</b>  |
| M4                            | Steel/Stainless steel | <b>800</b>   |                  |                  |
| M5                            | Alu                   | <b>800</b>   | <b>143 5056</b>  | <b>143 5067</b>  |
| M5                            | Steel/Stainless steel | <b>750</b>   |                  |                  |
| M6                            | Alu                   | <b>700</b>   | <b>143 5059</b>  | <b>143 5068</b>  |
| M6                            | Steel/Stainless steel | <b>500</b>   |                  |                  |
| M8                            | Alu                   | <b>600</b>   | <b>143 5063*</b> | <b>143 5069*</b> |
| M8                            | Steel                 | <b>300</b>   |                  |                  |
| M10                           | Alu                   | <b>500</b>   | <b>143 5064*</b> | <b>143 5070*</b> |

\* Available as special accessory

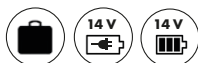
 **250** All threaded mandrels and nosepieces **page 250**

## **FIREBIRD®** Basic tool for blind rivet nut studs conversion kit

The blind rivet nut studs conversion kits enable the FireBird® to be used to set M4 and M8 blind rivet nut studs.

### FireBird® Basic tool\*

**No. 146 4336**



\* The tool is delivered without threaded mandrels and nosepieces. Please order the corresponding conversion kit.

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# SPARE PARTS / SPECIAL ACCESSORIES Battery powered blind rivet nut tools

## 14,4 V/2,0 Ah LI-ION BATTERY

Weight: 0.36 kg



**No. 166 6440**

## 14,4 V/4,0 Ah LI-ION BATTERY

Weight: 0.58 kg



**No. 166 6441**

## CHARGER 14.4 V LI-ION

### Technical data

Input voltage: 230 V / 50 Hz  
 Output voltage: 14.4 V DC  
 Recharging time: 50 to 100 minutes (battery depending)  
 Weight: 0.6 kg



**No. 145 7282**

## 18V LI-POWER 2,0 AH BATTERY

Weight: 0,4 kg / available as special accessory



**No. 167 9689**

## 18V LiHD 4,0 AH BATTERY

Weight: 0,6 kg / available as special accessory



**No. 167 9690**

## CHARGER FOR 18,0 V LI-ION BATTERY

### Technical data

Input voltage: 100 - 240 V / 50 - 60 Hz  
 Output voltage: 21 V DC  
 Charging time: 2.0 Ah = approx. 40 minutes  
 4.0 Ah = approx. 80 minute  
 Weight: 0.6 kg



Note: Equipped with Euro plug as standard (other versions on request)

EU packed  
**No. 167 9694**

UK packed  
**No. 167 9695**

US packed  
**No. 167 9696**

## THREADED MANDREL AND NOSEPIECE SET FOR BLIND RIVET NUT SETTING TOOLS

Equipped with a complete set of nosepieces and threaded mandrels (M3 to M12) in a plastic carrying case. Suitable for:

- FireBird® Pro
- FireBird® Pro Gold Edition / FireBird® Pro S Gold Edition
- FireFox® 2 (all versions except FireFox® 2 C)



Metric dimensions  
**No. 145 8111**

UNC/UNF dimensions  
**No. 145 8112**

## CONVERSION KIT FOR BLIND RIVET NUT STUDS

|    | No.<br>FireBird® Pro tools | No.<br>FireBird® tools | BRN thread protrusion |       |
|----|----------------------------|------------------------|-----------------------|-------|
|    |                            |                        | min.                  | max.* |
| M4 | <b>143 6285</b>            | <b>143 5117</b>        | 8                     | 30    |
| M5 | <b>143 6286</b>            | <b>143 5118</b>        | 9                     | 30    |
| M6 | <b>143 6287</b>            | <b>143 5119</b>        | 10                    | 30    |
| M8 | <b>143 6288</b>            | <b>143 5121</b>        | 12                    | 30    |



\* A corresponding extended nosepiece must be used for BRN thread protrusions > 30 mm.

## CONVERSION KIT FOR COARSE THREAD

|    | No.<br>FireBird® Pro tools | No.<br>FireBird® tools | BRN thread protrusion |      |
|----|----------------------------|------------------------|-----------------------|------|
|    |                            |                        | min.                  | max. |
| T5 | <b>145 8170</b>            | <b>145 7434</b>        | 9                     | 22   |
| T6 | <b>145 8171</b>            | <b>145 7476</b>        | 10                    | 22   |

Other dimensions on request

## CONVERSION KIT FOR HEXAGON SOCKET SCREWS

For the FireBird® Pro series

### Can be operated with DIN EN ISO 4762 allen screws instead of threaded mandrels

Special adapters available as accessory for M4 to M8 threads allows the original threaded mandrels to be replaced by allen screws: A substantial cost saving without any quality or performance loss and higher endurance when far away from the spare parts source. Best results are obtained with 12.9 grade screws.



Example:  
Conversion kit SL30

| Conversion kit for blind rivet nuts | No.             | Conversion kit for extended DIN screws SL30 No. | Conversion kit for extended DIN screws SL50 No. |
|-------------------------------------|-----------------|---|---|
| M4 x min. 20                        | <b>143 6264</b> | M4 x min. 50                                    | <b>145 8182</b>                                 |
| M5 x min. 25                        | <b>143 6279</b> | M5 x min. 55                                    | <b>145 8183</b>                                 |
| M6 x min. 30                        | <b>143 6283</b> | M6 x min. 60                                    | <b>145 8184</b>                                 |
| M8 x min. 30                        | <b>143 6284</b> | M8 x min. 60                                    | <b>145 8178</b>                                 |
|                                     |                 | M4 x min. 70                                    | <b>152 9115</b>                                 |
|                                     |                 | M5 x min. 75                                    | <b>156 7148</b>                                 |
|                                     |                 | M6 x min. 80                                    | <b>156 7147</b>                                 |
|                                     |                 | M7 x min. 80                                    | <b>156 7146</b>                                 |