The TAURUS® series

The pneumatic-hydraulic blind rivet setting series, TAURUS® was celebrating 2012 its 10th anniversary. Since the market introduction of the TAURUS® 2 in the year 2002, the TAURUS® series has managed to convince thousand times over in trade and industry.

Advantages

Modular principles for full series

- Widest possible parts commonality – low spare part stocks required and simple maintenance

Power

- High setting forces combined with low weight
- Fast work cycle
- Optimised stroke for the entire series

Efficiency

- Little compressed air consumption thanks to dual function: setting the rivets and extracting the spent mandrels use the same air
- Air suction needed only for vertical downwards riveting. Can be permanently switched-off if not needed.

Work comfort / safety

- Rubberised, moulded grip
- Balanced center of gravity
- Low-vibration and soundproofed
- Little activation force required
- Spent mandrel container with swivelling air deflector
- Overpressure valve for prevention of overload
- Very little recoil
- Integrated protection feature prevents the ejection of spent mandrels while the spent mandrel container is removed

Patented handle mechanism

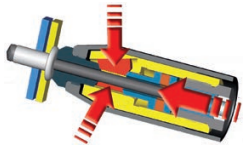
- With forcibly actuated jaws by pneumatic pressing
- Very long service lives
- Safe, non-slip gripping of the rivet mandrel
- Just one model of jaws for all tools

TAURUS® series

VIDEO

What makes the TAURUS® tool series so unique

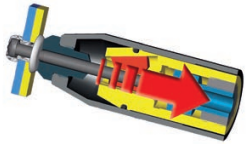
The GESIPA® system – a patented jaw system unique throughout the world



The TAURUS® tool series is equipped with a high-performance, patented grip mechanism and jaw system:

- The three jaws move in separate channels while being under forced control.
- The jaws are pressed onto the mandrel by using compressed air instead of spring force – the force being ten times higher than usual.
- Due to the high pressure the jaws immediately cling to the mandrels upon triggering the riveting process, only then the pulling movement starts.

The GESIPA® system – The decisive advantages



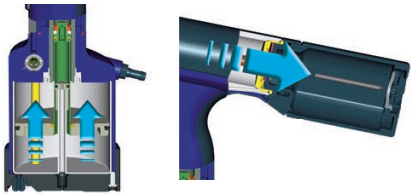
This system provides decisive advantages for the user:

- The complete stroke of the tool is used for setting the rivet guaranteeing a reliable setting process.
- Soiling of the jaw profiles due to abrasive wear is significantly reduced because of lower friction.
- Since the jaws do not slide along the mandrel, the wear and tear of the jaw profiles is reduced.
- Lower costs due to longer service life and low requirements regarding maintenance and spare parts needed.

The GESIPA® System – Optimum use of compressed air ensures maximum efficiency

Compressed air is used very often in industrial production because of its flexibility. It does, however, cause relatively high costs and its consumption damages the environment. These disadvantages are more than enough reason for GESIPA® to equip the TAURUS® tool series with a special technique that allows to save compressed air and is unique throughout the world.

The compressed air needed for setting the blind rivet is used a second time for ejecting the rivet mandrel. By using the compressed air twice no additional air is required for extracting the spent mandrels whereas other tools need a continous flow of compressed air for this process. In addition, this allows the TAURUS® tool series to operate with extremely low noise emissions.



In two-shift operation and with compressed air costs of approximately € 0.03 per m³ this innovative technique allows savings of up to € 720 per year and tool. A TAURUS® 2 can pay for itself in less than one year.

Versatile accessories complete the range!

The modular concept for the TAURUS® series 1-4 lets the user customise the TAURUS® devices to match his individual requirements. Many identical parts that can be used across all devices reduce the need to stock spare parts and make maintenance easy. This wide range of options provides the user with a high degree of flexibility. Each device in the TAURUS® series 1-4 can be fitted with many different spare parts or refitted according to the application.

TAURUS® tool series – A unique modular concept! Reduced spare parts stocking, easy maintenance!

Nosepieces

different sizes

Extension units

Single-piece (different sizes)

Multi-piece (different sizes)

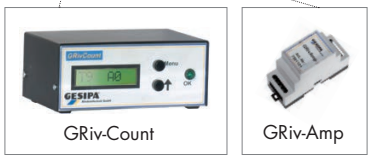
Spring loaded trigger system

Rivet mandrel evacuation hose

Spent mandrel container
adoptable for TAURUS® tools1-4

TAURUS® 1-2 | TAURUS® 3-4 | PH-2000

Blind rivet counters



GRiv-Count | GRiv-Amp

GESIPA-Interface

Setting process monitoring

TAURUS® device series – The modular concept

Overview of system components

- **Extension units**
  For easy access to hard-to-reach areas
- **Rivet mandrel evacuation hose**
  For direct disposal
- **Spring loaded trigger system**
  For seamless riveting of the components
- **C-frame for TAURUS® 1-6**
  For a unique expansion of functionality
- **TAURUS® system version**
  For use in automatic production lines
- **TAURUS® with blind rivet counters**
  For a complete check of all rivet connections
- **TAURUS® with setting process monitoring**
  For total assurance in terms of quality and reliability of the setting processes
- **TAUREX series 1-6 with external pressure intensifier**
  For more flexibility and improved ergonomics in difficult application cases

TAURUS® series

Pneumatic-hydraulic blind rivet setting tools

TAURUS® 1

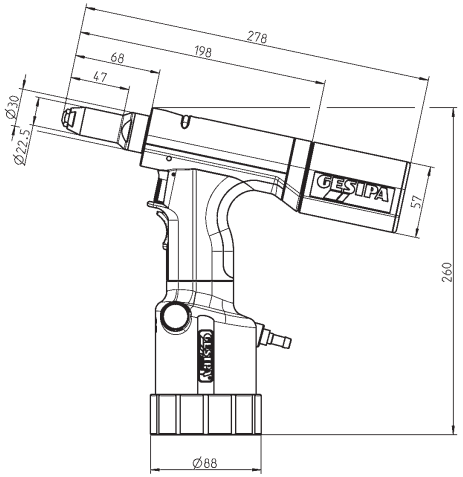
Part no. 756 0001

Working range
Sets blind rivets from 2.4 up to 3.2 mm Ø all materials and up to 4 mm Ø alu/steel (max. mandrel dia. 2.5 mm)

Technical data

Weight:	1.3 kg
Operating air pressure:	5-7 bar
Air hose connection:	6 mm Ø (1/4")
Air consumption:	approx. 1,0 ltr. per rivet
Traction power:	4.200 N at 5 bar
Stroke:	15 mm

Equipment
Nosepieces:17/18, 17/24 and 17/27, maintenance wrench SW12/14, SW14/17, 1 hydraulic oil bottle 100 ml, 1 oil refill can, operating instructions with spare parts list



TAURUS® 2

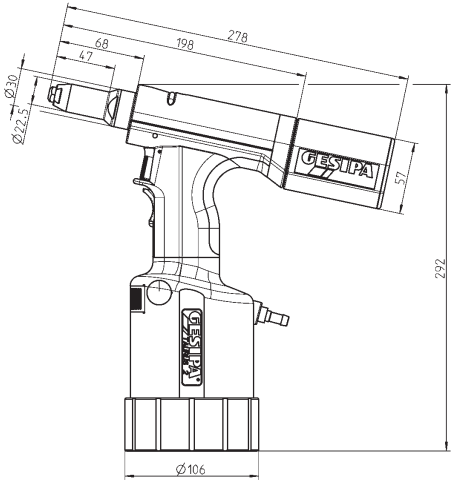
Part no. 757 0007

Working range
Sets blind rivets up to 5 mm Ø all materials and up to 6 mm Ø alu/steel (max. mandrel dia. 3.2 mm)

Technical data

Weight:	1.6 kg
Operating air pressure:	5-7 bar
Air hose connection:	6 mm Ø (1/4")
Air consumption:	approx. 2,3 ltr. per rivet
Traction power:	9.000 N at 5 bar
Stroke:	18 mm

Equipment
Nosepieces:17/27, 17/29, 17/32 and 17/36, maintenance wrench SW12/14, SW14/17, 1 hydraulic oil bottle 100 ml,1 oil refill can, operating instructions with spare parts list



TAURUS® 3

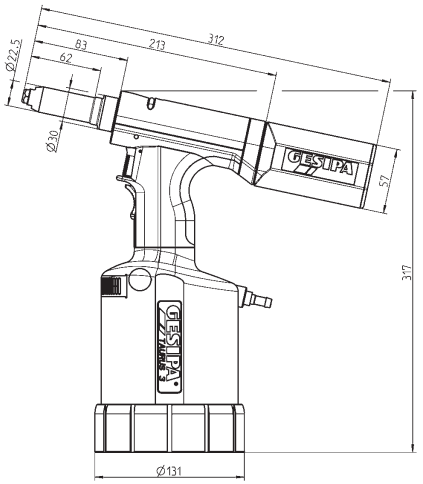
Part no. 758 0002

Working range
Sets blind rivets up to 6.4 mm Ø all materials (max. mandrel dia. 4.5 mm)

Technical data

Weight:	1.9 kg
Operating air pressure:	5-7 bar
Air hose connection:	6 mm Ø (1/4")
Air consumption:	approx. 4.8 ltr. per rivet
Traction power:	14.000 N at 5 bar
Stroke:	25 mm

Equipment
Nosepieces:17/36, 17/40 and 17/45, maintenance wrench SW12/14, SW14/17, 1 hydraulic oil bottle 100 ml, 1 oil refill can, Operating instructions with spare parts list



TAURUS® 4

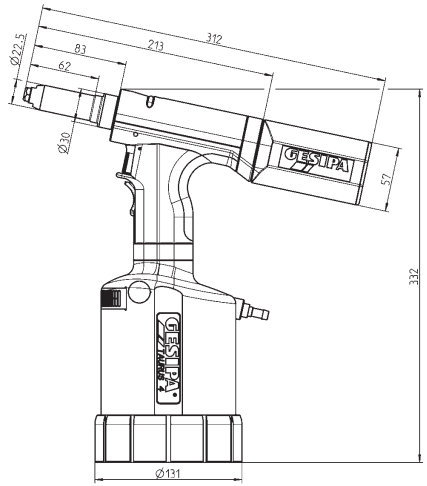
Part no. 759 0001

Working range
Sets blind rivets up to 6.4 mm Ø all materials and up to 8 mm Ø alu (max. mandrel dia. 4.5 mm)

Technical data

Weight:	2.0 kg
Operating air pressure:	5-7 bar
Air hose connection:	6 mm Ø (1/4")
Air consumption:	approx. 4.8 ltr. per rivet
Traction power:	20.000 N at 5 bar
Stroke:	19 mm

Equipment
Nosepieces:17/36, 17/40 and 17/45, maintenance wrench SW12/14, SW14/17, 1 hydraulic oil bottle 100 ml, 1 oil refill can, Operating instructions with spare parts list



TAURUS® series

TAURUS® 5

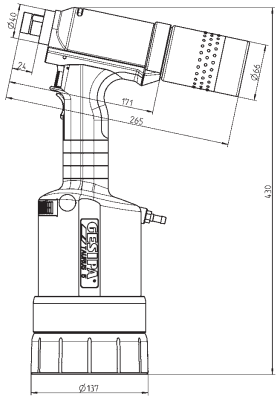
Basic tool
Part no. 760 0001

Working range
Blind rivets above 6,4 mm Ø all materials and lockbolts up to10 mm Ø with corresponding pulling heads

Technical data

Weight:	3.4 kg
Operating air pressure:	5-7 bar
Air hose connection:	6 mm Ø (1/4")
Air consumption:	approx. 6.9 ltr. per rivet
Traction power:	42.000 N at 7 bar
Stroke:	17 mm

Equipment
1 hydraulic oil bottle 100 ml
1 oil refill can
Operating instructions with spare parts list



TAURUS® 6

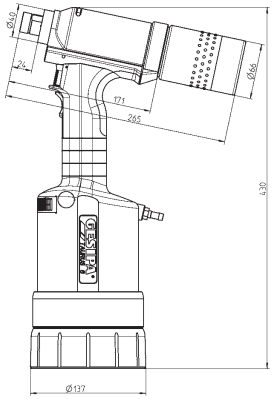
Basic tool
Part no. 761 0002

Working range
Blind rivets above 6,4 mm Ø all materials and lockbolts up to10 mm Ø with corresponding pulling heads

Technical data

Weight:	3.4 kg
Operating air pressure:	5-7 bar
Air hose connection:	6 mm Ø (1/4")
Air consumption:	approx. 6.9 ltr. per rivet
Traction power:	50.000 N at 7 bar
Stroke:	15 mm

Equipment
1 hydraulic oil bottle 100 ml
1 oil refill can
Operating instructions with spare parts list



TAURUS® 5 and 6 need to be fitted with nosepieces to match the application. Will be produced on request.

TAURUS® serie – Accessories

Nosepieces *TAURUS® 1-4*

Rivet Ø mm	Rivet material	Nosepiece	Part no.
2,4	Alu	17/18	**725** 2075
3,2	CAP-Alu, CAP-Cu	17/18	**725** 2075
3 und 3,2	Alu, Cu, Steel, Stainless steel, Stinox, PG-Alu, PG-Steel, PG-Stainless steel	17/24	**725** 1583
4	Alu, Cu, CAP-Alu, CAP-Cu	17/24	**725** 1583
4	Steel, Alu, PG-Alu	17/27	**725** 2040
4	Stainless steel, Stinox, PG-Steel, PG Stainless steel	17/29	**725** 2059
4,8 und 5	Alu, CAP-Alu, CAP-CU, PG-Alu	17/29	**725** 2059
4,8 und 5	Steel, Alu	17/32	**725** 2067
4,8 und 5	Stainless steel, Stinox, PG-Steel, PG Stainless steel, G-BULB®	17/36	**725** 2083
6	Alu	17/36	**725** 2083
6	Steel	17/40	**725** 2560
6,4	Alu	17/40	**725** 2560
6,4	Steel, Alu, Stainless steel, PG Stainless steel,	17/45	**724** 3065
8	Alu	17/45	**724** 3065

* Extended or special models of nosepieces are available on request. Information about nosepiece allocations are valid for DIN compliant and GESIPA® blind rivets.

BULB-TITE® blind rivets

4	Alu	17/26 BT*	**725** 2202
5,2	Alu	17/32 BT*	**725** 2210
6,3	Alu, Steel, Monel	17/42 BT*	**725** 2229
7,7	Alu	17/48 BT*	**725** 2237

MEGA GRIP® blind rivets

4,8	Alu, Steel, Stainless steel	17/31 MG*	**725** 2250
6,4	Alu, Steel, Stainless steel	17/41 MG*	**724** 3146

Jaws (3 parts)
for the full TAURUS® series
Part no. 756 1172

Swivel air connector
for the full TAURUS® series
Part no. 756 1023

TAURUS® conversion kit
For conversion to the PH 2000 spent mandrel container (description and full offer on page 114).

for TAURUS® 1
Part no. 756 1104

for TAURUS® 2-4
Part no. 756 1107

Mandrel extraction tube
for the full TAURUS® series
Part no. 757 1356

Head modules for TAURUS® 5, 6 and TAURUS® 5 compact

Adaption takes priority

The TAURUS® 5 and 6 riveting tools must be adapted to the different kinds of rivets and lockbolts through specific pulling head modules.

Head module for 7.8 mm Titgemeyer TIBULB*
Part no. 760 0201

Head module for 9.8 mm Huck Magna-Lok®*
Part no. 760 0202

Head module for lockbolt 4.8 (3/16")
Huck C6L®*
Part no. 760 1070

Head module for lockbolt 6.4 (1/4")
Huck C6L®*
Part no. 760 1071

Head module for lockbolt 4.8 (3/16")
Huck Magna-Grip®*
Part no. 760 1072

Head module for lockbolt 6.4 (1/4")
Huck Magna-Grip®*
Part no. 760 1073

* partly registered trademarks of TITGEMEYER GmbH & Co. KG or Alcoa Fastening Systems

Other head modules on request

Extension modules

Allow variable extension of the steel sleeve in 100 mm steps

for
TAURUS® 1 **Art.-Nr. 756 2024**
TAURUS® 2 **Art.-Nr. 757 1086**
TAURUS® 3 & ***4*** **Art.-Nr. 758 1073**

TAURUS® series – Accessories

One-piece extension units

For setting rivets in deep positions and with difficult access

for ***TAURUS® 1***
Part no. 756 2013 (50mm)
Part no. 756 2015 (100mm)
Overall length of head inclusive extension unit: 106 mm bzw. 156 mm

for ***TAURUS® 2***
Part no. 757 1016 (50mm)
Part no. 757 1019 (100mm)
Part no. 757 1072 (200mm)
Overall length of head inclusive extension unit: 106 mm, 156 mm bzw. 256 mm

for ***TAURUS® 3*** and ***4***
Part no. 758 1021 (50mm)
Part no.758 1023 (100mm)
Part no. 758 1035 (150mm)
Overall length of head inclusive extension unit: 106 mm, 156 mm bzw. 206 mm

The system components and accessories

System components with part numbers:

	TAURUS® 1	TAURUS® 2	TAURUS® 3	TAURUS® 4	TAURUS® 5	TAURUS® 6
Standard Tool	756 0001	757 0007	758 0002	759 0001	760 0001	761 0002
with PH 2000 mandrel container	756 0005	757 0018	758 0011	759 0007	-	-
with pressure trigger	756 0021	757 0016	758 0005	759 0002	-	-
for external foot pedal trigger	-	757 0025	758 0015	-	on request	
Remote controlled version	756 0020	757 0008	758 0020	on request	-	-
with rivet counter	756 0020	757 0008	758 0020	on request	-	-
with rivet counter and pressure trigger	756 0004	757 0011	758 0009	759 0006	-	-
with process control	756 0002	757 0017	758 0006	759 0003	on request	
with process control and pressure trigger	756 0010	757 0026	758 0007	759 0004	-	-
TAUREX with external pressure transducer	764 0001	765 0001	766 0001	767 0001	768 0001	769 0001
TAURUS with C-Frame	on request					
Process control interface	756 1065					
Rivet counter control unit GRivCount	756 1071					
Rivet counter amplifier GRivAmp	756 1100					
Nose extension 50 mm	756 2013	757 1016	758 1021		-	-
Nose extension 100 mm	756 2015	757 1019	758 1023		-	-
Mandrel evacuation tube kit	757 1356				on request	
Swivel air connector	756 1023					
Retrofit kit for PH 2000 mandrel container	756 1104	756 1107				