RIVETEC

TITGEMEYER Group

PROFESSIONAL RIVETING TECHNOLOGY
with a control riveting process
& RIVET HEADS
with pneumatic-hydraulic drive

RIVETEC the riveting control process

The patented **TC system** controls every single rivet and also the connection it created. If there is any change in the parameters, the system alerts the operator to it, or stops the entire production process until the problem is corrected. The measured values are stored and can be used for both the feedback control, as well as document the quality of each rivet connection. The device consists of rivet elements and the control and evaluation unit, which can be connected to a PC or simply a visual and audible signal during the riveting process.

The device can detect:

> presence of the rivet in the process
> use the correct rivet according to the specifications
> a damaged or defective rivet
> presence of substrate materials
> wrong setting of rivet in material
> change the quality of the pre-drilled holes for rivets
> if the materials are seated correctly
> damaged or malfunction riveting equipment
> operators error

RIVETEC rivet heads with a separate drive

Rivet heads, powered by a separate pneumatic-hydraulic unit are designed for installations of special purpose machines and automatic lines in three shift operation in plants. They are intended for the establishment of one-sided rivets and rivet nuts.

Pneumatic-hydraulic riveting technology with the TC system

Rivet tool with a pneumatic-hydraulic unit

TC 50

Integrated patented TC system with automatic monitoring and evaluation of riveting process. Equipped with a chip for automatically setting of the values in the evaluation device and reading the data from tool. Simple operation, low maintenance.

Range of application:

- Rivet nuts and screws
  Steel and stainless steel M3–M10
  Aluminium M3–M12

TC 60

Integrated patented TC system with automatic monitoring and evaluation of riveting process. Equipped with a chip for automatically setting of the values in the evaluation device and reading the data from tool. Simple operation, low maintenance.

Range of application:

- Standard blind rivets, strong and structured blind rivets
- All types of materials
  ∅ 4.0 to 6.4 mm
  and 8.0 mm aluminium

TC 20

Integrated patented TC system with automatic monitoring and evaluation of riveting process. Equipped with a chip for automatically setting of the values in the evaluation device and reading the data from tool. Simple operation, low maintenance.

Range of application:

- Standard blind rivets
- All types of materials
  ∅ 2.4–5.0 mm

TC 75

Integrated patented TC system with automatic monitoring and evaluation of riveting process. Equipped with a chip for automatically setting of the values in the evaluation device and reading the data from tool. Simple operation, low maintenance.

Range of application:

- Lockbolts
- All types of materials
  ∅ 5.0 and 6.4 mm

KRB 010

KRB 009 DP

The evaluation of the **KRB 010** unit with OK and NOK outputs and inputs for switching parameters to evaluate the riveting process. Up to 7 different settings. Automatic adjustment of the sensor values when connecting tools.

Saving data to a PC. Connecting the PC via ethernet or CAN. Intuitive control software to set the conditions for the evaluation of the riveting process. Identification of the state of *OK / NOK* and the number of cycles to the PLC * display.

Connection to the master system via *Profibus* communication. And slot for storing data on MMC card by the version **KRB 009 DP.**

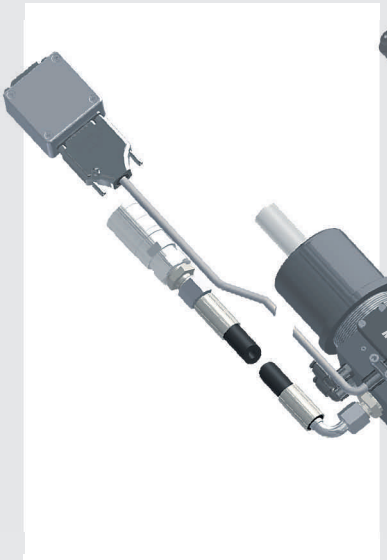
Pneumatic-hydraulic technology with the TC system

Rivet heads with a pneumatic-hydraulic unit

Hydraulic technology with the TC system

Rivet tool connected with hydraulic drives

HHTC 50

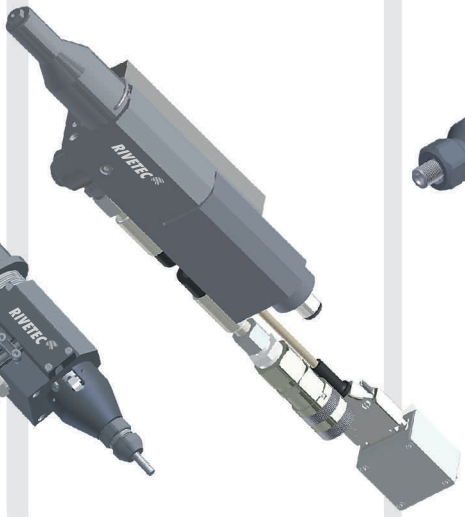


Riveting head, equipped with a chip for automatically setting values in the evaluation unit. High performance in a small package.
Accurate smooth stroke adjustment.
Low noise.
Easy to use, reliable.
Low vibrations.

Range of application:

- Rivet nuts and screws
  Steel and stainless steel M3–M10
  Aluminium M3–M12

HHTC 60



Integrated TC system. Equipped with a chip for automatically setting the values in the evaluation device. High performance. Integrated ring sensor for counting the rivet mandrels. High working stroke. Low noise. Easy to use, reliable. Low transmitted vibration.

Range of application:

- Standard blind rivets, strong and structured blind rivets
- All types of materials
  ∅ 4.0 to 6.4 mm
  and 8.0 mm aluminium

TIOS 35

Rivet gun with the integrated TC system. Electronically controlled hydraulic movement of the piston. Equipped with a chip for automatically setting the values in the evaluation device. Identification of the results using coloured diodes. Low transmitted vibration.
Robust construction. Bottom hinge for work in the inverted position (upside down). Easy to use.

Range of application:

- Lockbolts ∅ 5.0 and 6.4 mm
- Blind rivets strong ∅ 6.4 mm

Rivet nuts

Rivet screws

Lockbolts

Blind rivets

Blind rivets strong & structured

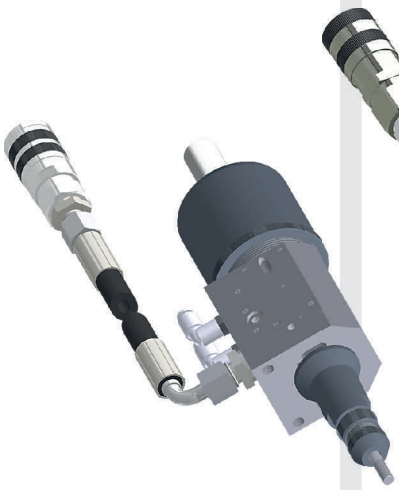
RHP P2

Powerful industrial unit. Connecting with the rivet head using a quick connector. Automatic replenishment of oil from the reservoir. End position sensor pneumatic piston. Electrical or pneumatic trigger control.

TIOS H350 MINI

Powerful industrial hydraulic unit for three-shift operation. The TC system for monitoring and evaluating the riveting process. Integrated evaluation unit *KRB*. Communication with higher-level PLC via *Harting* connector. Robust construction. Identification for maintenance or fault on the display. MMC card slot for storing data of riveting processes. Connecting to PC via ethernet.

HH 50



Powerful industrial riveting head driven by a separate pneumatic-hydraulic unit designed for installation in special purpose machines and automatic lines with three-shift operation. Connecting the drive unit using quick connectors. Easy to maintain. High performance in a small package. Accurate smooth stroke adjustment. Low noise. Easy to use, reliable.

Range of application:

- Rivet nuts
  Steel and stainless steel M3–M10
  Aluminium M3–M12

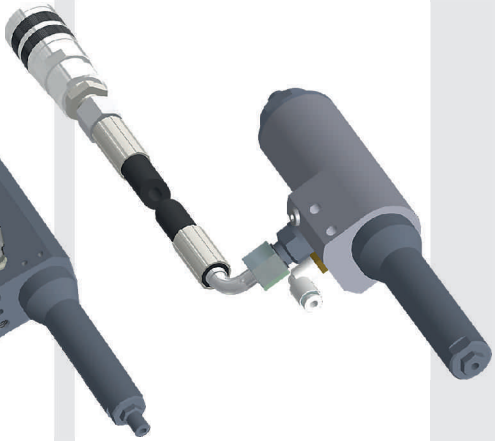
HH 60

Powerful industrial riveting head driven by a separate pneumatic-hydraulic unit designed for installation in special purpose machines and automatic lines with three-shift operation. Connecting the drive unit using a quick connector. Easy to maintain. Integrated ring sensor for counting the rivet mandrels. Drain of mandrels through the hose.

Range of application:

- Blind rivets including strength and structured rivets ∅ 4.0 to 6.4 mm

HH 160



Powerful industrial rivet head driven by a separate pneumatic-hydraulic unit designed for installation in special purpose machines and automatic lines with three-shift operation. Connecting the drive unit using quick connectors. Easy to maintain. Drain of mandrels through the hose.

Range of application:

- Blind rivets including strength and structured rivets ∅ 4.0 to 6.4 mm

RHP P2

Powerful industrial unit. Connecting with the rivet head using a quick release. Automatic replenishment of oil from the reservoir. End position sensor pneumatic piston. Electrical or pneumatic trigger control.

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