HST AEROSPACE

Applications and solutions for aerospace

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HST

PREMIUM
ASSEMBLY
SOLUTIONS

TorqBee® Tightening Tools

Overview

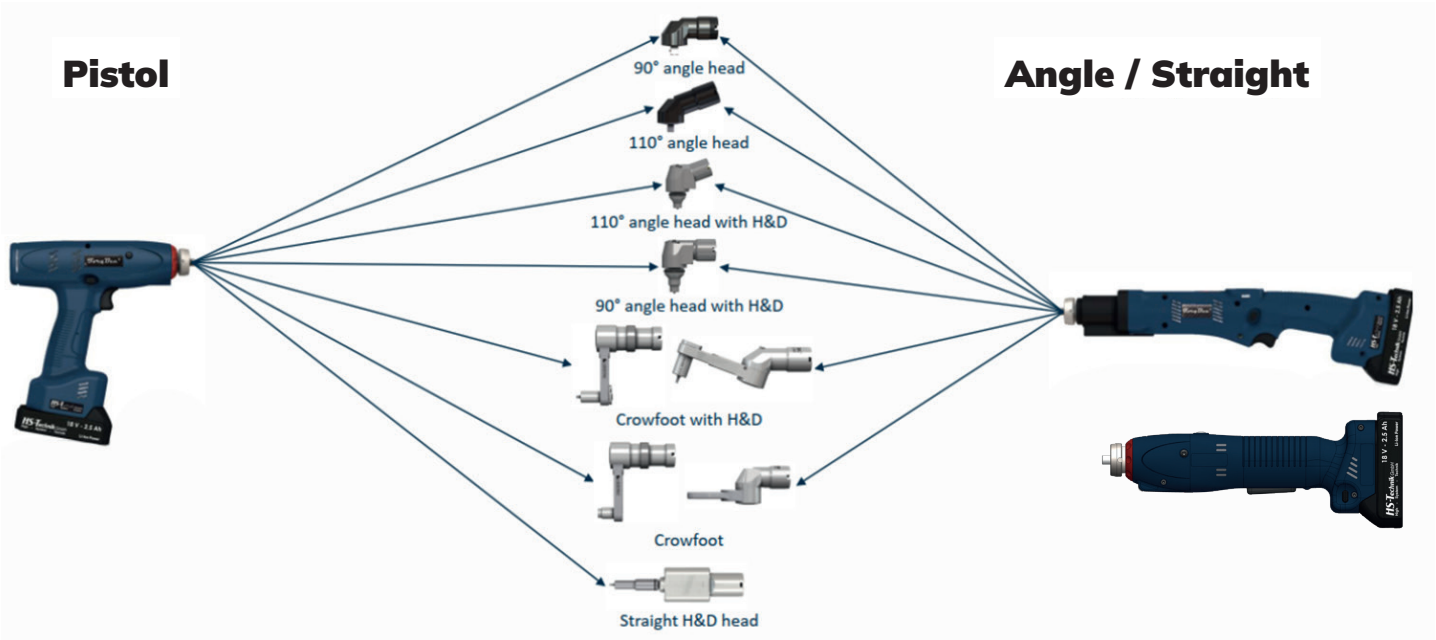
Series	
TBASL-Series	Battery-Shut-Off-Tool for applications with limited accessibility
TorqBee Light-Series	Battery-Shut-Off-Tool
TorqBee SO-Series	Battery-Shut-Off-Tool*
TorqBee SOP-Series[1]	Programmable Battery-Shut-Off-DC-Tool with torque reaction sensor*
TorqBee ECO-Series	Programmable Battery-DC-Tool with torque reaction sensor*
TorqBee EC-Series	Programmable Battery-DC-Tool with rotating torque transducer and angle encoder*
TorqBee EC²-Series[2]	Programmable Battery-DC-Tool with rotating torque transducer and angle encoder, redundant torque reaction sensor and torque transducer*

*with optional barcode reader & Wi-Fi

[1]Our TorqBee SOP tools come with a unique concept of a mechanical shut-off clutch combined with a static torque sensor which doubles the safety in your manufacturing processes and fulfills your documentation obligation.
[2]Have you ever heard of a double transducerized tool? Our EC² Tool comes with two self-monitoring torque sensors for maximum accuracy, which allows you to reduce the test and validation frequency in your production.

TorqBee® Tightening Tools

TorqBee Modularity with Lübbering LSP3-Interface



RivBee® Riveting Tools

Overview

RivBee® Light-Series

Type designation: RBL-xx

Battery Blind Rivet Tool with OLED-Display

- For precise setting processes
- Service counter

RivBee® P-Series

Type designation: RBP-xxxx

Programmable Battery Blind Rivet Tool

- Blind rivet counter
- Optional:
  Barcode reader & Wi-Fi

RivBee® PF-Series

Type designation: RBPF-xxxx

Programmable Battery Blind Rivet Tool

- Force sensor
- Process documentation
  (Force/Stroke)
- Optional:
  Barcode reader & Wi-Fi

Model	Max. setting force	Setting speed	Dimensions L × W × H	Weight	Max. mandrel Ø
RBxx-15*	15 kN (3370 lbf)	47 mm/s	302 × 73 × 270 mm (11.88 × 2.87 × 10.63 in)	1.70 kg (3.75 lbs)	4.5 mm (0.18 in)
RBxx-20*	20 kN (4496 lbf)	37 mm/s	302 × 73 × 270 mm (11.88 × 2.87 × 10.63 in)	1.70 kg (3.75 lbs)	6.3 mm (0.25 in)

*W = Wi-Fi option
*B = Barcode reader option
*WB = Wi-Fi & barcode reader option

RivBee® Riveting Tools

Adapters for Aerospace pulling heads

Howmet 245 adapter*

Compatible with most pulling heads for Howmet 245 interface

Howmet 234/244 adapter*

Compatible with most pulling heads for Howmet 243/244 interface

Cherry 84 adapter*

Compatible with most pulling heads for Cherry G84

Cherry 744 adapter*

Compatible with most pulling heads for Cherry G744

Cherry 747 adapter*

Compatible with most pulling heads for Cherry G747A and Cherry G747

Adapter für Huck Offset-Köpfe*

*Compatibility with pulling heads must be checked in each individual case.

NutBee® Riveting Tools

Overview

NutBee® LF-Series

Type designation: NBLF-xx

Force controlled battery blind rivet nut tool

NutBee® PF-Series

Type designation: NBPF-xx

Programmable force controlled battery blind rivet nut tool

- Process documentation (force/ stroke)
- Optional: Barcode reader & Wi-Fi

NutBee® LS-Series

Type designation: NBLS-xx

Stroke controlled battery blind rivet nut tool

NutBee® PS-Series

Type designation: NBPS-xx

Programmable stroke controlled battery blind rivet nut tool

- Process documentation (current/stroke)
- Optional: Barcode reader & Wi-Fi

Model	Max. setting force	Max. setting stroke	Dimensions L × W × H	Weight
NBxx-25*	25 kN (5620 lbf)	21 mm (0.83 in)	212 × 73 × 270 mm (8.35 × 2.87 × 10.63 in)	2.00 kg (4.41 lbs)
NBxx-21*	-	21 mm (0.83 in)	212 × 73 × 270 mm (8.35 × 2.87 × 10.63 in)	2.00 kg (4.41 lbs)

*W = Wi-Fi option
*B = Barcode reader option
*WB= Wi-Fi & barcode reader option

RoboRiv® Riveting Tools

Programmable battery blind rivet nut tool for robot usage

RoboRiv®

Programmable battery blind rivet nut tool for robot usage

- Process documentation and quality assessment with force/stroke curve
- Programmable via USB with HST-Tool-Manager
- Programmable parameters:
  - Force
  - Current
  - Stroke
  - Speed
  - Time
- Multi-step programming (6 steps)
- Multi-colored status LED
- Robust metal housing
- OLED-Display
- Blind rivet nut counter
- 100 individual setting programs
- Min. 150,000 results incl. setting curves (force/stroke) are saved in the tool
- Linear compensation unit including light barrier for position determination
- Output of the process parameters via serial interface RS232 and 24 V digital IO´s

Model	Max. setting force	Max. setting stroke	Dimensions L × W × H	Weight
ROBORIV-BRN-232_RD	25 kN (5620 lbf)	21 mm	318 × 188 × 110 mm*	4,00 kg*

*Dimensions and weight with 5,0 Ah battery

Blind Fastener Tools

Ergo-Tech* / Composi-Lok**

TorqBee® Pistol tool with adapter for Howmet Ergo-Tech* pulling heads

Model	Torque range	Max. speed	Dimensions L × W × H	Gewicht
TBPxx-12ET	12 - 14 Nm	530 U/min	222 × 72 × 211 mm (8.74 × 2.83 × 8.31 in)	1.35 kg (2.98 lbs)

* Ergo-Tech is a registered trademark of Howmet Aerospace

TorqBee® Pistol tool with adapter for Monogram Composi-Lok** pulling heads

Modell	Torque range	Max. speed	Dimensions L × W × H	Weight
TBPxx-10CL	10 Nm	740 U/min	291 × 72 × 211 mm (11.46 × 2.83 × 8.31 in)	1.60 kg (3.53 lbs)

** Composi-Lok ist eine eingetragene Marke von Monogram Aerospace Fasteners

BTC / vBTC

Wi-Fi controller for battery tightening and riveting tools

BTC

Wi-Fi controller for battery tightening and riveting tools

- Up to 20 HST Wi-Fi tools (TorqBee / RivBee / NutBee / WrenchBee)
- With 2.4 / 5 GHz Wi-Fi Access Point (811.2 a / b / g / n / ac)
- Quick system exchange (SD card for system configuration)
- 4 × 20 character OLED-Display for status information
- Web interface for programming and visualization via web browser with tablet or panel PC possible
- Interfaces
  - 2 × 10 / 100Mbit Ethernet
  - 2 × USB
  - 1 × audio
- Connection to the following systems:
  - OpenProtocol
  - PFCS (FCA)
  - ProfiBus
  - ProfiNet
  - 24 Volt Digital I/O‘s
- Accessories
  - Socket Trays
  - Display Panel
  - Printer

vBTC

Virtual solution to manage HST-Wi-Fi Tools (installed on a server)

- Unlimited number of Wi-Fi tools connectable (limited by hardware & network capabilities) (TorqBee / RivBee / NutBee / WrenchBee)
- Possibility to define several Enclaves without size constrictions
- Management of sequences and complex programs
- Web interface for programming and visualization
- Tool enable/disable selection
- Connectable with Tool Manager and upper softwares (ERP etc)
- Several Protocols available (MQTT / MQTTS)
- Possibility to use barcode reader and external socket tray

Model	Input	Operating temperature	Weight	Dimensions L × W × H
BTC-O-*	85 - 264 V AC, 47 - 63 Hz	0 - 40 °Celcius	approx. 1.60 kg (3.53 lbs)	180 × 150 × 90 mm (7.09 × 5.91 × 3.54 mm)

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