

INDUSTRY SOLUTIONS

DEFENSE

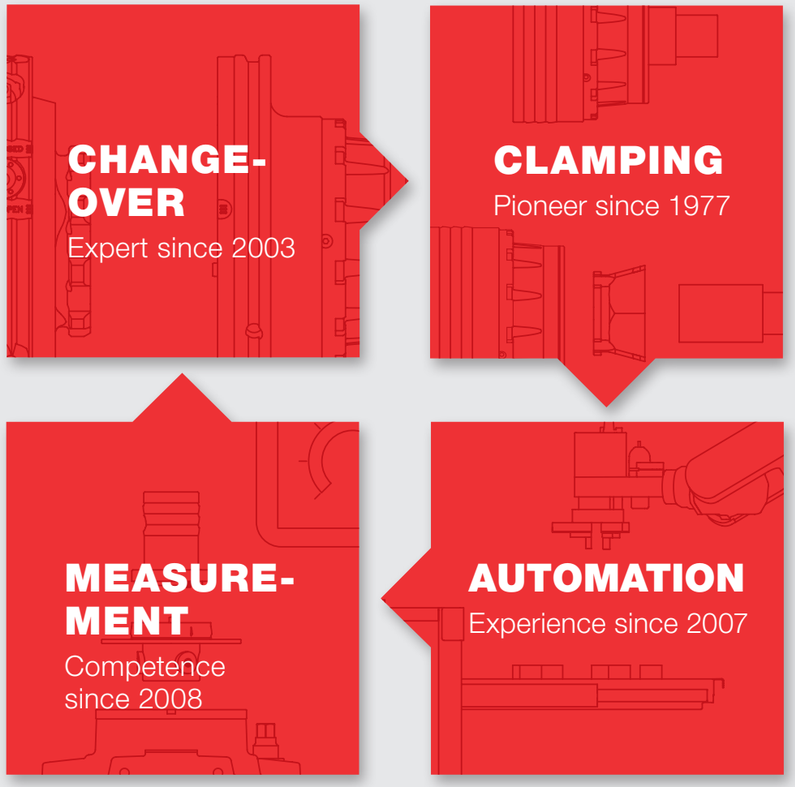
SAFETY STARTS WITH PRECISION

Clamping solutions and automation
for the highest demands

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HAINBUCH
WORKHOLDING TECHNOLOGY

YOUR PARTNER ALONG **THE ENTIRE PROCESS**

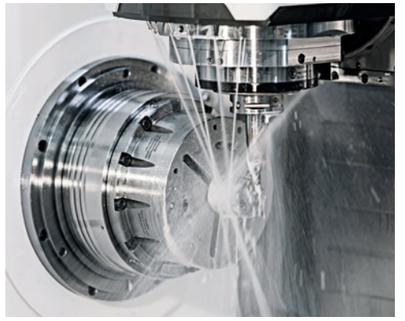


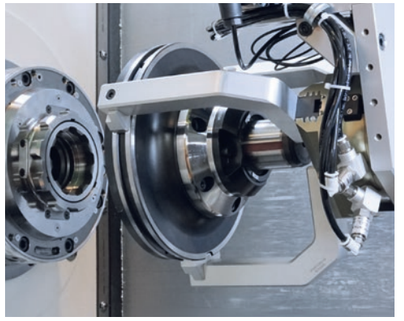
WITH MORE THAN 70 YEARS OF EXPERIENCE,
WE ARE YOUR **TRUSTED PARTNER IN WORKHOLDING AND AUTOMATION FOR THE DEFENSE INDUSTRY,**
DELIVERING CUSTOMIZED SOLUTIONS.

YOUR BENEFITS:

- **Expertise in your industry**
  We have decades of experience and a deep understanding of the specific requirements of defense technology.
- **Pioneer in workholding technology**
  Our products stand for maximum precision and reliability, which are indispensable in your industry.
- **Automation for every batch size**
  Whether small series or large-scale production – our automation solutions are flexible and efficient.
- **In-house production at multiple locations**
  We guarantee fast response times and the highest quality thanks to our crisis-proof production structure.
- **Confidentiality guaranteed**
  Confidentiality and discretion are an integral part of our collaboration.
- **Customized special solutions**
  We develop tailor-made clamping solutions that are specifically designed to your requirements.

RELY ON HAINBUCH – **YOUR PARTNER FOR THE HIGHEST STANDARDS IN DEFENSE TECHNOLOGY.**







YOUR CHALLENGE –
COMPLEX WORKPIECES



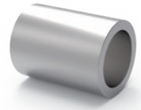
Detonator



Plug



Ammunition



Missile body





Ammunition



Flak



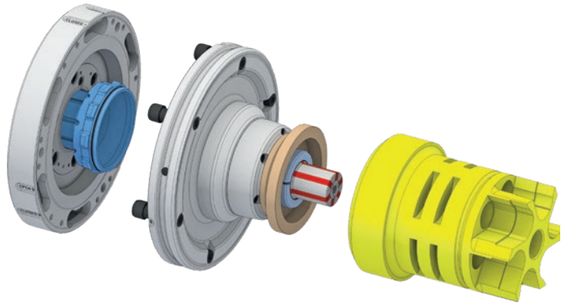
Gun barrel

Bullet casing

HAINBUCH CLAMPING SOLUTIONS

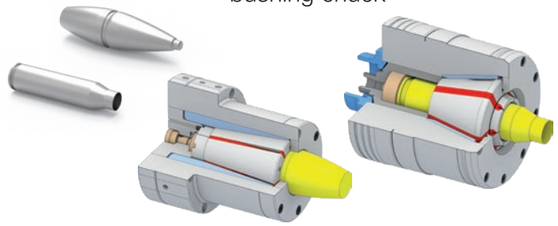


Workpiece Titanium weapon part, 42 kg
Clamping device MAXXOS mandrel on centroteX quick change-over interface
Machining Complete machining outer contour



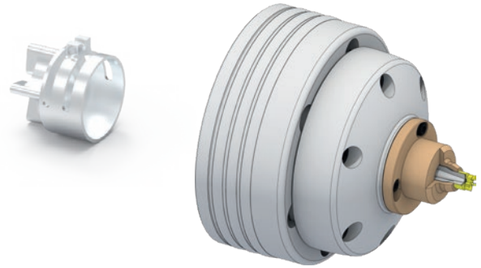
- Machining without additional tailstock
- Extremely rigid clamping on a very short clamping length [28 mm clamping length / 55 mm clamping-Ø]
- Change-over to other clamping devices < 2 min. thanks to quick change-over interface

Workpiece Ammunition
Clamping device Segmented clamping bushing chuck



- Circumferential clamping on contour of workpiece – lower risk of deformation
- Longer clamping length for better perpendicular positioning and vibration dampening
- For a wide range of sizes and designs

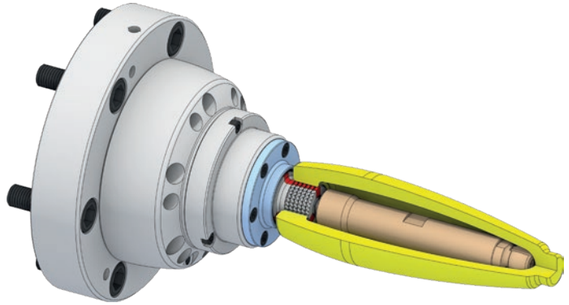
Workpiece Titanium detonator
Clamping device MAXXOS mandrel



- Solid I.D. clamping
- Reduction in clamping set-ups from 3 to 2
- Savings of 18 min. per workpiece

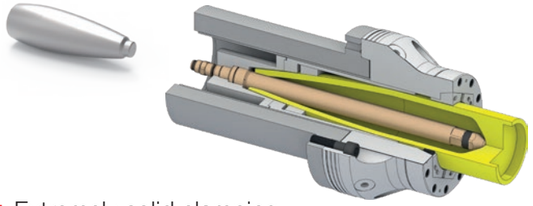


Workpiece Mortar
Clamping device MAXXOS mandrel with front end-stop
Machining Complete machining outer contour



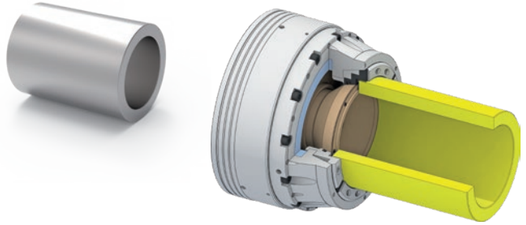
- Spring-actuated front end-stop for active centering and vibration dampening
- Rigid clamping thanks to hexagonal cone for higher machining parameters
- Highest torque transmission

Workpiece War head
Clamping device TOPlus 160 chuck with front end-stop



- Extremely solid clamping
- Centering during loading via front end-stop
- End-stop position individualized acc. to customer requirements

Workpiece Missile body
Clamping device SPANNTOP 160 chuck with end-stop



- Solid O.D. clamping on very short clamping length
- For a wide range of sizes and designs

WE ARE AT YOUR SERVICE – **WORLDWIDE**

5 locations in Germany | 11 international subsidiaries | more than 40 sales agencies

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