100% SAFETY – FOR THE MOST PRECIOUS CARGO

Clamping solutions for the aerospace industry

www.hainbuch.com
AVIATION AND AEROSPACE – CHALLENGE US!

You are experts in aerospace
Aerospace is one of the most technically demanding industries in the world. With increasing difficulties to machine materials, exacting specifications and constant time restraints, the manufacture of aerospace parts has many limitations – but also production rates are set to increase greatly.

HAINBUCH – experts in workholding
- Innovators and trendsetters of creative workholding solutions
- High-precision clamping solutions that are superior in terms of durability, accuracy, and versatility
- High level engineering with more than 100 patents and many awards, especially for the first intelligent chuck and the first CFK lightweight clamping system
- Problem solvers for particularly tricky clamping situations
- Set-up specialist with quick change-over
- Reliable partner in process optimization and continuous improvement

Together we can be experts for 100% safety
Do you have a challenging application? Count on HAINBUCH’s 65 years of experience and the originality of our workholding engineering team.

Contact us at www.hainbuch.com | sales@hainbuch.de
OUR PERFORMANCE – YOUR ADVANTAGE

APPLICATIONS

- Undercarriage
- Frame structure and airfoil
- Landing flap control
- Interior equipment
- Power plant / turbine
- Shaft fan
- Turbine shaft
- Turbine housing part
- Compressor wheel
- Turbine blade
- Valve block housing
- Hydraulic pump housing
- Hydraulic valve housing
- Seat slide bracket
- Bracket
- Landing gear components
- Main landing gear housing
- Break system housing
- Bearing journal
- Turbine wheel
- Turbine gear wheel
**Workpiece**
- Hydraulic valve housing
- Turbine blade
- Shaft fan
- Bearing journal

**Clamping task**
- I.D. clamping
- O.D. clamping
- I.D. clamping with deadlength effect

**Machining**
- Milling of valve channels
- Milling
- Milling of outer diameter
- Turning of outer diameter

**Solution: Double independent I.D. clamping**

Workholding technology
- Mandrel with two independent hydraulic clamping positions and pull-back effect
- Vulcanized segmented clamping bushing for vibration-dampening effect
- Rigid clamping with optimized chuck body for tool contour

**Solution: Turbine blade chuck**

Workholding technology
- Workpiece positioning
- Feasible for automation
- Two pins instead of one ensure high clamping force, compensating clamping, precise clamping device and high rigidity

**Solution: Segmented bushing chuck**

Workholding technology
- I.D. clamping with deadlength effect for precise radial clamping
- Full cylindrical surface contact and large opening stroke between this huge workpiece and segmented bushing
- Segmented bushing chuck mounted on a workpiece carrier for easy production handling

**Solution: T0Plus pull-back chuck**

Workholding technology
- T0Plus technology – full surface contact between hexagonal clamping head and chuck body
- Inner workpiece end-stop with coolant flush and chip evacuation channel
WE ARE AT YOUR SERVICE – WORLDWIDE

4 locations in Germany | 12 international subsidiaries | more than 40 sales agencies

Find our global subsidiaries and sales agencies at www.hainbuch.com

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