



**DANOBAT**

**MACHINE**

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**AEROSPACE  
FASTENERS**

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**WITH OUR  
DANOBAT  
ESTARTA-200**

**HIGH ACCURACY &  
PRODUCTIVITY**

**WIDE RANGE OF  
SIZES & SHAPES**

**GRINDING OF  
DIFFERENT  
DIAMETERS,  
SURFACES AND  
RADII**

## ESTARTA-200 AEROSPACE FASTENERS



### “PRODUCTIVITY OF CENTERLESS TECHNOLOGY WITH THE FLEXIBILITY OF A CUSTOM MACHINE WITH INTEGRATED LOADING SYSTEM”

#### TAILOR MADE SOLUTION

- Solution for precision fasteners subject to national aerospace standards (NAS).
- Wide variety of diameters (4-16 mm) and lengths (10-244 mm).
- Grinding of different materials such as inconel, stainless steel and titanium.
- Various part references in small, medium and large batches.
- Grinding of fastener from solid with excess material of up to  $\varnothing$  2 mm.



#### LOADING SYSTEM

- Flexible loading system to cover a wide range of parts consisting of a step-by-step conveyor adjustable at one single point for a variety of diameters and types of heads.
- CNC-controlled, vertical and horizontal moving gantry loader fitted on machine for faster loading of workpiece and quick adjustment during changeovers.
- Unloading by means of removal of machined part between the regulating wheel and the work blade to a conveyor.
- Other solutions are possible such as vibratory feeder for high-production components with greater loading autonomy.

#### MACHINE CONFIGURATION

- Optimal thermal and dynamic stability: natural granite base.
- Machine with cantilever grinding wheel for rapid change, thus minimising changeover time.
- Additional options for quick change: fast-blocking blade and regulating wheel slide for correction of taper, etc. Drive of six-axis CNC machine driven by linear motors and position control by means of work rest blades providing optimum precision on the machine.
- Machine ready for work with net oil for maximum stability of the process.
- Dressing of grinding wheel with disc and additional grinding system for the wheel face.



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