

CASE HISTORY Compressor Housing

On Mikron Multistep XT-200

Approximately 25% of all compressor housings worldwide are produced onto Mikron Multistep XT-200.



UNIQUE

The Mikron Multistep Machining System is outstanding in reaching most competitive cost-per-part combined with unmatched flexibility when machining close tolerance metal components.

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The challenge

- 5 different bodies made of casted AlMgSiCu-alloy
- Turning, milling, drilling on 6 faces of the workpiece. Depending on the component, 30-40 operations. Variable lot sizes from 500-10'000 pieces
- Tolerance: $\pm 25 \mu\text{m}$ Cpk 1.67 (systematic sampling 10%)
- Annual requirement approx. 500'000 pieces (three-shift-operation)



The traditional solution

Production area: **300 m²**



Required machines: **4**



Setup time: **80 min.**



12 employees



- Operations in 2 clampings; milling on Multispindle-Machining Centers and turning on Automatic Lathes
- Loading/Unloading manually

Mikron: The innovative solution

Production area: **165 m²**



Required machines: **2 Mikron Multistep XT-200**



Setup time: **20 min.**

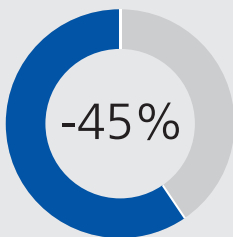


6 employees



- Complete machining on one production system
- Intelligent automatic built-in loading/unloading system (incl.palletization and measuring of blank parts parallel to main processing time)

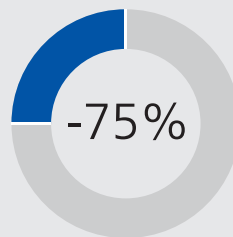
Your advantage



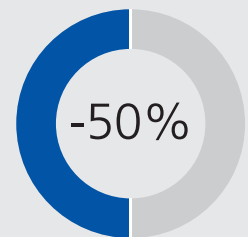
Production area



Machines



Setup time



Employees