microtap

Thread tapping technology

Characteristics
Advantage | Customer - Benefits

Characteristics

- **Torque controlled** drive
- Mechanical counter-balanced compensation
- Production program for special features
- Production of quality reports
- Repeatable production / data bank
- Integrated interfaces for controlling / RS232 & I/O
- CE + GS-sign checked by TÜV

Advantages

- **Process controlled** production
- Error recognition with good / bad selection
- Avoid scrap and tool breakage / tap protection
- Optimisation of process parameter based on measured production results
- Low axial power to tap-pitch (flanks) of threads
- Can be upgraded from stand-alone unit up integration with automatic transfer- and handling systems
- No further costs, i. e. lead screws

Benefits

- Complete production security
- **Assured profitability**
- Production protocol secures further orders, customer satisfaction and quality products
- High tool service life
- secure investment:
  - can be developed for tomorrow's needs of automation
  - through interfaces RS232 / 4 x I/O
- Reduction of costs
- For flexible semi - automated and contract production
- Can be mounted on a mobile table and moved to different machines / work areas or outwork

Thread tapping technology

Request

Applications

Flexible production

- Thread production for „inside & outside threads "
  M0,5 – M14 (V2A-steel / INOX)
- Practice orientated special features & production programs
  - thread cutting and forming
  - **thread inserts** (Ensat/Helicoil)
  - **screw setting**
  - counter sink & secondary drilling (similar do reaming)
  - core hole quality for size and depth
  - check **threads** (gauge- & depth - control)
  - comparative **laboratory features**

Applications

- **Special machines** & handling solutions /
  Transfer- & semi-automatic
- Can be developed for tomorrow's needs
- Fast cycle time
- Quality documentation / protocol

Control and process security

- **Win**PCA, analysis and evaluation software for process control & quality analysis
  - quality analysis process protocol and control
  - production security based on process monitoring
  - real time monitoring of the manufacturing process to help determine the effects of operating parameters including lubrication and tool function
  - automatic storage to document the measurement statistics (Gauß)
  - development to determine the best tool geometry and coatings as well as for lubricant cooling ingredients and emulsions

Service and funding

- Laboratory analysis & custom design at microtap
- Delivery & training on request
- Hire, hire purchase & leasing

... thanks for your attention!