



## SYSTEM ENGINEERING COMPANY s.r.o.

*The second life for your lathe!*

System Engineering Company s.r.o. offers modernization of the existing lathes, as well as delivery of new equipment and metal working tools for industrial enterprises.



One of the main streams of our business is overhaul and modernization of CNC metal working lathes.

We have got experienced technicians, our own overhaul facility and paint coating workshop on the territory of the Czech Republic.

The range of our services also includes:

- warranty and post-warranty maintenance of modernized lathes;
- if the required model is available at the exchange stock, the overhaul may be performed by means of exchange.

### *The following lathe types can be modernized:*

#### **ZPS Zlin lathes**

CNC turning lathes: SPR 63 CNC, SPR 100 CNC, SPRY 40 CNC, SPS 25-1 CNC, SPS 2/25 CNC, SPS 25-3

CNC horizontal machining centers: MCFH 40, FQH 50

CNC vertical machining centers: MCFV 560, MCFV 760, MCFV 840, MCFV 100, MCFV 125, MCFV 1050, MCFV 1060, MCFV 1260, MC 100 V

#### **KOVOSVIT SEZIMOVO USTI lathes**

CNC turning lathes: SPT 16 CNC, SPT 32 CNC, SPU 20 CNC, SPU 40 CNC.

#### **TOS TRENCIN lathes**

Turning lathes: SUI 63 CNC and others.

**EBOSA** turning lathes with CNC

**STARRAGHECKERT** vertical machining centers.

**DFS, DF Niles, GILDEMEISTER MAX MÜLLER MDW** turning lathes with CNC.

Horizontal machining centers : **DECKEL, HELLER, OLIVETTI.**

## Scope of works for modernization of lathes and machining centers

The lathe undergoes demounting. After that an inspection of defects and wear is performed. After the inspection our experts prepare a plan how to repair the main parts or inform if the parts require replacement.

### Mechanical works:

- grinding of guiding ways;
- ball screws are repaired or replaced with the new ones and after they are mounted on new bearings;
- repair of saddle seats;
- the spindle undergoes repair, grinding and balancing, and after that it is mounted in new bearings. If wear of the spindle is very high, then it is replaced with a new one;
- replacement of all bearings;
- when machining centers undergo repair, a general repair of tools magazine is performed as well;
- turning lathe turrets are demounted and replaced with the new ones, then they are installed and placed on the saddle seats;
- a new chuck or collet is placed;
- replacement of all bearings and all non-repairable parts (shafts, gears, and couplers) in the gear box is performed after cleaning and application of a new interior lining. If the gear box can't be repaired, it is replaced with a new one.
- cleaning of hydraulic and cooling systems, installation of new hydraulics;
- new lubrication;
- demounting, cleaning, repair, and testing of chip assembly line;
- application of two-component paint coating.

### Electrical works:

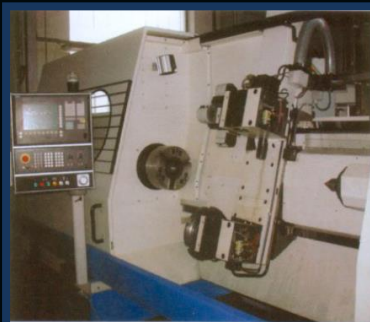
- demounting and replacement of electric wiring;
- replacement of electric cabinet components including integration for new control system and new drives;
- inspection and replacement of electric drives;
- replacement of feed servo-drive and spindle;
- CNC replacement;
- mounting of Siemens electric drive, motor and CNC as a standard option.  
Heidenhein or Fanuc CNC at request.

After completion of all repair works we perform testing of all components, units, and systems. The company also performs machine precision tests, including tests on the Customer's serial parts, and provides test reports.

***Lathe before  
modernization***



***Lathe after  
modernization***



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