

**certified**

ISO 9001

ISO 14001

ČD V6/1, V6/2

# PAKENG

... engineering solutions

# How we work

Benefits of cooperation with Akeng engineering solutions



## Speed

Thanks to our own technologies and facilities we have short delivery times, which we meet according to agreed deadline..



## We go with the times

All our machines are innovated on regular basis, we own modern machine tools, measuring technology etc.



## Technology

We follow current trends and utilize market cutting-edge technology.



## Projects

Our team of experienced engineers and programmers will be happy to help you with any project..



## Certification

We are certified in accordance with ISO:9001, ISO:14001 and our services meet the safety and production standards CSN EN..



## Inventories

Since we keep on-hand inventory of metallurgical materials (steel, stainless steel, aluminium) we are able to produce from our own resources in no time.



AKENG

visit us

Průmyslová 2570/19, 785 01 Šternberk



# technology

+ CNC MILLING

+ CNC TURNING

+ MEASURING

+ CNC CUTTING

There are several dozen of machines in our technology park and we use only high-quality tools. The machine operators are qualified professionals with decades of experience.

... give us a try



## DMG MORI CTX BETA 800

Highly productive compact turning centre for 4-axis complete machining.

Maximum workpiece diameter	Ø 510 mm
Maximum workpiece length	735 mm
Maximum bar capacity diameter	Ø 102 mm
Max. stroke in axis (x, y, z)	300, 120, 800 mm



## DMG MORI **CLX 450 TC**

CNC turning and milling center.

Maximum workpiece diameter	Ø 400 mm
Maximum workpiece length	1100 mm
Maximum diameter of bar stock used	Ø 65 mm
Max. stroke in axis (x, y, z)	750, 200, 1100 mm



## DMG MORI **NEF 400 I.**

2-axis universal lathe with C axis  
and automatic tailstock.

Maximum workpiece diameter	Ø 385 mm
Maximum workpiece length	650 mm
Maximum bar capacity diameter	Ø 65 mm
Max. stroke in axis (x, y)	260, 700 mm



## DMG MORI **NEF 400 II.**

2-axis universal lathe with C axis and automatic tailstock.

Maximum workpiece diameter	Ø 385 mm
Maximum workpiece length	650 mm
Maximum bar capacity diameter	Ø 65 mm
Max. stroke in axis (x, y)	260, 700 mm



## HAAS **ST40**

2-axis universal lathe with automatic tailstock.

Maximum workpiece diameter	Ø 510 mm
Maximum workpiece length	800 mm
Maximum bar capacity diameter	Ø 115 mm
Max. stroke in axis (x, z)	410, 880 mm



## SAB LT-52

2-axis universal lathe with C axis  
and hydraulic tailstock.

Maximum product diameter	Ø 330 mm
Maximum product length	460 mm
Maximum bar capacity diameter	Ø 20 mm
Max. stroke in axis (x, z)	210, 480 mm



## SAB LT-42

2-axis universal lathe with C axis  
and hydraulic tailstock.

Maximum workpiece diameter	Ø 280 mm
Maximum workpiece length	410 mm
Maximum bar capacity diameter	Ø 115 mm
Max. stroke in axis (x, z)	185, 430 mm



## DMG MORI **CMX 600 V**

Vertical 3-axis machining center  
for milling large and complex workpieces.

Maximum workpiece weight	600 kg
Workbench size	900 × 560 mm
Maximum operating height	510 mm



## HAAS **VF3**

Vertical machining center  
for large and heavy workpiece milling.

Maximum workpiece weight	1500 kg
Workbench size	1219 × 457 mm
Tool store	20 tools



## PEGAS 540 CALIBER X-CNC

Automatic two-column band saw for perpendicular cuts.

Maximum cutting ● Ø 510 mm

Maximum cutting ■ 550 × 500 mm

Materials stainless steel, aluminium, steel



## PEGAS 240 × 280 A-CNC-R

Automatic, hydraulically operated band saw with multiple material feed.

Maximum cutting ● Ø 240 mm

Maximum cutting ■ 280 × 220 mm

Materials stainless steel, aluminium, steel



## MITUTOYO CRYSTA-APEX V9106 CNC SMS

The latest generation of CRYSTA-Apex V coordinate measuring machines is equipped with the modern technology necessary to perform highly accurate measurements at high speed.

Maximum drive speed	519 mm/s (3-axis)
Height of measured part	545 mm
Range of measuring	900 × 1000 × 600 mm



## VICIVISION M3

Optical measuring machine for rotating components..

Maximum workpiece weight	30 kg
Maximum workpiece length	900 mm
Maximum workpiece diameter	Ø 140 mm



## UNO Premium 20/40

Optical measuring machine for presetting and tools analyzing.

Measurement range

Ø 400 mm x 400 mm



## ATOM Flashcut 3015

CNC cutting machine of semi-soft and soft materials.

Workbench size

3000 x 1500 mm

Maximum material thickness

50 mm



# annealing furnace

Horizontal chamber furnace with forced circulation KNC/H. The furnaces are used for all types of heat treatment (tempering, artificial aging, preheating, hot bonding, insert testing, drying, etc.)



**Standardisation annealing**  
**Dissolution annealing of non-ferrous metals**  
**Annealing of non-ferrous metals**  
**Soft annealing**  
**Recrystallisation annealing**  
**Internal stress relief annealing**  
**Artificial ageing**  
**Low-temperature tempering**  
**High temperature tempering**  
**Curing**  
**Preheating**  
**Mould drying**

## LAC KHC/H 1500/85

Horizontal chamber furnace with forced circulation.

Working temperature range	300 - 800 °C
Volume	1500 l
Internal dimensions (w x h x d)	1500 x 1000 x 1000 mm

# conventional machining

We own conventional machine tools too.  
We offer the following additional options:

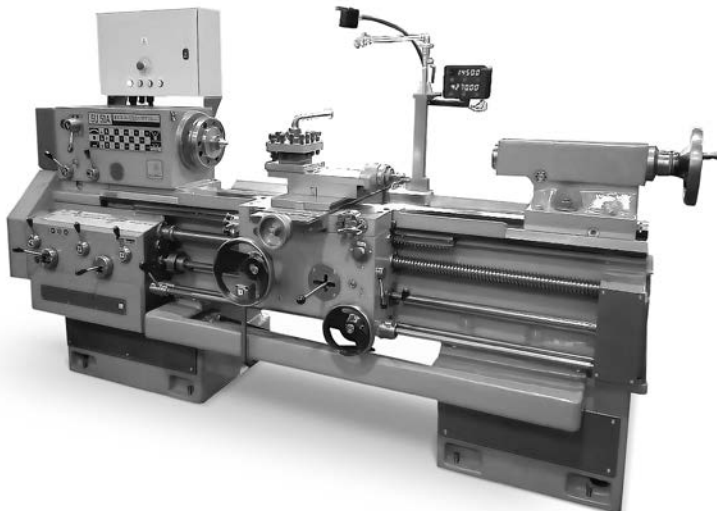
**Horizontal boring machine W63**

**SV18 conventional lathe**

**Conventional lathe SU50**

**Conventional lathe SU140 - NC Style**

**FA4V vertical milling machine**



## SU50

Conventional lathe SU50.

Maximum workpiece diameter	Ø 330 mm
Maximum workpiece length	460 mm
Spindle bore	Ø 52 mm



# • technical production support

Our office employs experienced designers who are heavily involved in the technical support of production. The whole team works in modern CAD/CAM programs such as **SolidWorks** and **SolidCAM**. This software is essential for the perfect programming of CNC production machines.

We also use software for the **development of measuring machine programs, measurement evaluation** and the transfer of information to production. We offer services in creating programs for measuring instruments or production programs. We also provide measurement on an optical measuring device.

# testimonials

During our existence, we have established cooperation with a wide portfolio of companies, including the following major companies:



Pars Nova a.s.



SIEMENS





"České dráhy" certification



**AKENG engineering solutions s.r.o.**

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