



WSK
POZNAŃ

About us

WSK Poznań is a company with over 100 years of tradition and experience in precision metalworking. We specialize in the production of fuel equipment for diesel engines, aircraft equipment (solenoid mechanisms, solenoid valves, solenomagnets and hydraulic silencers) and precise cooperative elements.



Our history

-  **1918** - establishment of the Automotive Equipment Plant in Poznań,
-  **1923** - establishment of the Communication Equipment Factory at the Ławica airport in Poznań and launch of the production of aircraft and aviation products,
-  **1966** - merger of both plants in WSK-Poznań,
-  **1975-82** - construction of a new WSK plant in the Starołęka district of Poznań in order to produce injection pumps under the Lucas license for Perkins engines for tractors under the Massey-Ferguson license,
-  **1998** - establishment of the company Wytwórnia Sprzętu Komunikacyjnego - Poznań Sp. z o.o.

Our Mission

WSK POZNAŃ provides precisely made details and products of the highest possible quality to ensure reliability, long life of products and safety of users around the world.

Using our many years of experience, we strive to become a trusted partner in the production of details, guaranteeing safety of use. We believe that high quality products improve safety, reliability and reduce the negative impact on our planet.



International cooperation



They trusted us



Associations



STOWARZYSZENIE POLSKIEGO PRZEMYSŁU LOTNICZEGO



OUR MACHINE PARK

Machinery park - turning

NAKAMURA WY-150

Main Spindle:

- Max. machining diameter \varnothing 175 mm
- Max. Turning length 588 mm
- Max. machining diameter from the rod \varnothing 65 mm
- indexing of the main spindle C-axis standard $\pm 30'$

Sub-spindle:

- Max. machining diameter \varnothing 51 mm
- indexing of the sub-spindle C-axis standard $\pm 30'$
- two tool heads, 12 tool pockets in the head, individually driven tools
- additionally Y1 axis ± 42 , Y2 ± 32.5



Machinery park - turning

NAKAMURA WT-250

Main Spindle:

- Max. machining diameter \varnothing 250 mm
- Max. turning length 550 mm
- Max. machining diameter from the rod \varnothing 65 mm
- indexing of the main spindle C-axis standard $\pm 30'$

Sub-spindle:

- max. średnica obróbki \varnothing 51 mm
- indexing of the sub-spindle C-axis standard $\pm 30'$
- two tool heads,
- 12 tool sockets in the head, individually driven tools additionally Y1 axis ± 42



Machinery park - cutting

COSEN MODEL G320 Automatic Band Saw Machine for Metal Cutting

Technical parameters - cutting:

- pipe O 325 mm,
- Square bar 325 mm,
- Profile 325 H x 380W Mm
- Width 190 - 300 mm combined in a package and height 70 - 139 mm.

Band saw:

- speed 20 - 100 m/min,
- dimensions 4.240 x 34 x 1.1 mm,
- carbide guides.

Automatyczny przesuw materiału:

- Task memory: up to 100 Tasks,
- feed length, one-time 0 - 400 mm,
- feed multiple 0 - 99 M (including cutting gap).



Machinery park - turning

MIYANO ABX 51/64THY automatic lathe with two spindles and three heads.

The main advantages of the ABX 51/64THY regulator:

- access of all three heads to both spindles guarantees unlimited machining possibilities,
- 3 heads equipped with a total of 36 tool stations and high torque of live tools - 40 Nm ensure high stability of the machining process,
- Y-axis on each turret for complex machining of complex workpieces.



Machinery park - turning

Tokarka STAR 10J

Main Spindle:

- Max. machining diameter \varnothing 10 mm,
- Max. turning length 125 mm,
- indexing of the main spindle, C axis standard $\pm 30'$.

Sub-spindle:

- machining diameter \varnothing 10 mm,
- sub-spindle indexing, C-axis standard $\pm 30'$,

Achieved dimensional tolerances ± 0.05 mm (depending on the material to be processed).



Machinery park - turning

Tokarka STAR 20J

Main Spindle:

- max. średnica obróbki \varnothing 20 mm,
- max. długość toczenia 125 mm,
- indeksowanie wrzeciona głównego oś C standard $\pm 30'$.

Sub-spindle:

- 8 tool positions, all of them have the possibility of mounting rotary tools,
- Max. machining diameter \varnothing 20 mm,
- indexing of the C-axis sub-spindle standard $\pm 30'$,

Achieved dimensional tolerances ± 0.05 mm (depending on the material to be processed).



Machinery park - turning

Tokarka STAR 32J

Wrzeciono główne:

- max. średnica obróbki \varnothing 32 mm,
- max. długość toczenia 125 mm,
- indeksowanie wrzeciona głównego oś C standard $\pm 30'$.



Wrzeciono przechwytyjące:

- max. średnica obróbki \varnothing 32 mm,
- indeksowanie wrzeciona przechwytyjącego oś C standard $\pm 30'$,

Osiągane tolerancje wymiarowe $\pm 0,05$ mm (w zależności od obrabianego materiału).

Machine park - milling

HAAS DM1 Vertical Machining Center

Range of Motion:

- x-axis = 508 mm,
- y-axis = 406 mm,
- Z axis = 394 mm.

Table:

length = 660 mm,

width = 381 mm,

maximum table load = 113 kg.



Machine park - grinding

Roller grinding machine STUDER FAVORIT CNC

- workpiece length 10-1030 mm,
- workpiece diameter $\varnothing 5 - 349$ mm,
- workpiece weight 120 kg,
- distance between centers 1000 mm,
- center height 175 mm.



Machine park - grinding

Centerless sander AGATHON 255 CL

- CNC through-feed and plunge grinding,
- working range: workpiece diameter range: 0.5 - 30mm,
- maximum length of workpieces: L=125mm.



Machinery park - honing

DELAPENA E1000S

Working Range:

- diameter range of honed holes: \varnothing 1.14 mm - \varnothing 25.4 mm,
- maximum outer diameter of workpieces: max \varnothing 120 mm,
- maximum length of workpieces: L=225 mm.



Machinery - grinding machines

Hole grinder 3B

Maximum grinding length 200mm

Maximum grinding diameter 125mm

Grinding accuracy 0.003mm

Surface sander SPA 25

Table size 250x630

Max. grinding width 250 mm

Max grinding length 315 mm

Grinding accuracy – 0.003 mm

Voumard 3AP hole grinder

Range of ground diameters 3 to 76 mm

Ground bore depth 76 mm

Max length 254 mm

Grinding accuracy – 0.003 mm

Surface grinder/rotary table Naxos FRB-750

Rotary table diameter 750mm

Max height of workpieces to be sanded 200

Max dimensions width/length 150x300 mm

Grinding accuracy 0.002

Machine park – other machines

Hydraulic Press

Pressure 100t

Eccentric presses

Pressure 60t, 40t, 25t, 10t

Automatic lathes Gildemeister AS-20

6-spindles

Bar size: round 20mm, square 14mm,
hexagonal 17mm

Maximum bar feeding 100 mm



SAMPLE PRODUCTS

We care about the quality of our products

That is why we operate on the basis of ISO 9001 management systems. In addition, the supervision over the quality of aviation products is carried out in accordance with relevant standards, such as:

- Conformity assessment of products intended for the needs of national defense and security
 - Procedures of the European Union Aviation Safety Agency (EASA) (point 21, point G)
 - approved by the Civil Aviation Authority, confirming the competence of the organization
- Production.

Automotive Products

DISTRIBUTOR INJECTION PUMPS TYPE

DPA

DPA head pump manufactured under license from LUCAS LDS, used in diesel engine supply systems with a power of up to 22 kW from one cylinder and max. 5,000 rpm



DP100 DISTRIBUTOR INJECTION PUMPS

A modernized version of DPA pump distributors, in which more modern types of DP100 heads were used.



Automotive Products

DPA HYDRAULIC HEADS



DPS HYDRAULIC HEADS



DP HYDRAULIC HEADS



SPARE PARTS FOR DPA, DPS, DP PUMPS



Aerospace Products

ELECTROMECHANISMS

Used for remote control of devices
in aircraft systems



SOLENOID VALVES

used to open and close the fuel flow in the
fuel system.



ELECTROMAGNETS

Solenoid power devices for
controlling valves and manifolds.



HYDRAULIC MUFFLERS

for damping torsional vibrations of
helicopter rotor blades



PRODUCTION SERVICES

Manufacturing Services - Machining & Grinding

- **TURNING**
- **HOLE GRINDING**
- **ROLLER GRINDING**
- **PUNCHING ON PRESSES**
- **SURFACE GRINDING**
- **HOLE HONNING**
- **MILLING**
- **DRAGGING**
- **REACHING**
- **DRILLING**
- **CUT**



Production services - heat and thermochemical treatment

HEAT TREATMENT IN A REGULATED ENDOTHERMIC ATMOSPHERE:

- quenching and diffusion processes - RTPFQ furnaces,
- working dimension 800 x 500 x 300 mm, load weight 200kg, maximum process temperature 910 °C.

VACUUM HEAT TREATMENT, HIGH-SPEED STEEL QUENCHING ONLY AND HIGH TEMPERATURE ANNEALING OF ANY STEEL:

- working dimension 800 x 500 x 250 mm, load weight 180 kg, maximum working temperature 1400 °C.

TEMPERING, LOW TEMPERATURE ANNEALING UNDER NITROGEN:

- wymiar roboczy 800 x 500 x 350 mm, waga wsadu 250 kg, maksymalna temperatura robocza 700 °C.

NITRIDING IN PIT FURNACES:

- working chamber with a diameter of 500 mm, height of 700 mm and a load weight of 250 kg.

Manufacturing Services - Electroplating Treatment

GALVANIZING

alkaline in the barrels and on slings, maximum dimensions 300 x 500 mm, workpiece weight up to 10 kg,

CHEMICAL NICKEL PLATING

on slings, maximum dimensions 300 x 200 mm, workpiece weight up to 10 kg,

ANODIZING

on slings, maximum dimensions 300 x 200 mm, workpiece weight up to 10kg,

COPPER PLATING

in barrels and on slings, maximum dimensions 300 x 500 mm, workpiece weight up to 10 kg,

CHEMICAL BLACKENING/ BLURRING

in trays, workpiece dimensions 500 x 300 mm, workpiece weight up to 30 kg,

PHFOSFORIFICATION

on slings, maximum dimensions 200 x 200 mm, workpiece weight up to 10 kg,

CADMATION

in cylinders and on slings, maximum dimensions 300 x 500 mm, workpiece weight up to 10 kg.

Production services - assembly of finished components

- specialized assembly stations, equipped with top-class tools,
- experienced and competent staff of fitters, specialists with extensive knowledge and high skills,
- guarantee of continuous quality control of the work performed.



Learn more



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