

Joint-Stock Company, established in 1972



Motto: "Quality is the basis of progress and prosperity,,



Orhei - a city with a centuries-old valuable historical past is located in the central part of the Republic of Moldova, in the heart of „Codru” forest. Historical tradition, beautiful landscapes, Raut River Valley, natural and historical complex Old Orhei with its monasteries, vineyard plantations with the famous in the whole world wines as well as hardworking and hospitable people - are just some of the things that we are proud of.

Joint Stock Company „ASPA” has begun its activity in 1972, being specialized in manufacturing of metal parts and technological devices for MMZ “Krasnii Oktiabri” – one of the world leading companies in airplane engines manufacturing.

During the period of 1972-1991 Machine Building Plant from Orhei produced parts for the MIG engines. Another production line was represented by metal cutting tools, special equipment and measuring tools.

In 1995 the plant was restructured into the Joint Stock Company “ASPA”.

The main direction of activity was and remains:

- manufacture of various parts and components according to customer requirements for various machines.
- manufacture of special cutting tools.

Started the modernization process of the enterprise. Production spaces were rearranged and supplied with modern machine tools. The company began delivering parts to new customers from Central Europe.

In 2005 our enterprise had implemented the Quality Management System ISO 9001 and was certified by the International Certification Center TUV Thüringen eV. In June 2020 was made successfully the repeated certification of the enterprise.

The company resisted the global economic crisis from 2009, thanks to new technologies, new products and new partners. Was restarted the production of parts for fuel injection systems of aircraft engines.

In 2014 was launched a new production line of special broaches of HSS, based powder metallurgy (Bohler).


Continued the modernization of the machine tool fleet cu new CNC machines (turning, milling, grinding), and equipment 3D coordinate measuring.

The production volume of the company S. A. ASPA, for 2019 is about 2 million euros. The company has over 120 employees.

The company has a free and available production capacity and space, which is equipped with the necessary infrastructure that allows placing standard and series orders. The production spaces are provided with electricity, water and sewerage. Our geographical location is attractive to Eastern and Western European partners. We position ourselves as an attractive candidate for a long-term, mutually beneficial cooperation.





 "ASPA" JSC is a metalworking enterprise that is specialized in manufacturing of parts for fuel injection systems of aircraft engines, for various supply pipes, hydraulic systems and apparatus, parts and assemblies for various gears and other parts and assemblies including hardworking materials (alloys austenitic stainless steel, heat resistant steel, titanium alloys etc.).

We also produce parts and assemblies for different gear reducers and have a reach experience in manufacturing of welded constructions for special purposes and agricultural equipment. Another manufacturing line is producing of a wide range of special cutting tools for metalworking, including high speed steel, powder metallurgy high speed steel and carbide brazed plates: lathe turning tools, broaches, drills, taps, cutters, reamers, countersink tools, counterbores, thread rolling and grooving knurls etc. We also produce technological equipment such as molds, plastic molds, rubber molding presses, measuring tools including gauges.

The design of cutting and measuring tools of the technological equipment is provided by the experienced engineers of our design department.

The technological possibilities of our company allow the realization of a wide range of machining operations from planning to boring and grinding. The enterprise is supplied with special machine tools like: broaching machines, thread rolling machines, thread grinding machines and profile grinding machines. A special CNC Department with vertical and horizontal CNC Machining Centers is available.

We have well-equipped departments for heat-treating, galvanic covering, cold pressing, welding and sheet metal working.

All our production is subjected to a 100% technical inspection using special and universal control gauges.

Special quality control methods of the surface layer cracks like colour penetration and powder inspection are implemented.

We also have a 3D Coordinate Measuring Machine with a precision degree up to 1,5 micrometers.

The production preparation process includes the detailed elaboration of all operational processes indicating the content of operations, the technological equipment and the processing modes.

The possibility to ensure ourselves with devices, cutting and measuring tools and also the possession of a well-equipped heat treatment department, allows us to solve a wide range of technical problems related to manufacturing of the most complicated parts.

Our team ensures high quality products meeting the requirements of customers.



Products of JSC „ASPA”

Die Produkte der ASPA AG

① Parts for fuel injection systems of the aircraft engines

① Teile für Kraftstoff-Einspritzsysteme für Flugzeuggetriebe



Nozzles
Injectors
Atomizers
Injection caps
Valves
Contacts

Düsen
Injektoren
Zerstäuber
Einspritzköpfe
Ventile
Kontakte



② Parts for fuel supply systems.

② Teile für Kraftstoffversorgungssysteme.

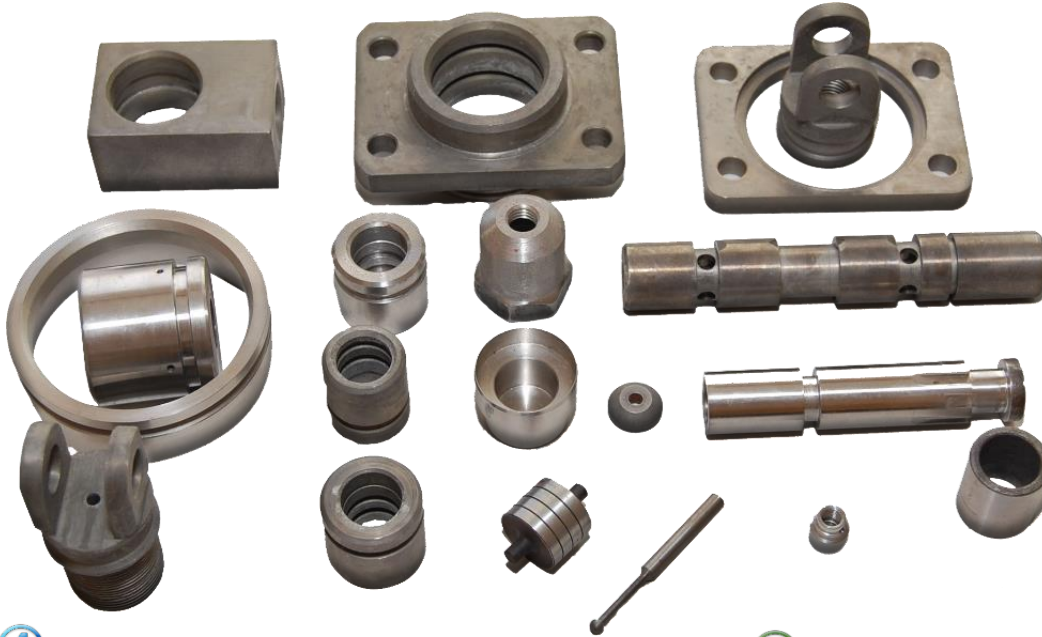


Three- way couplings,
four-way couplings
Nipples
Couplings
Flanges
Supports
Bushings

Dreiwegekupplungen
Vi
erwegekupplungen
Nippel
Muffen
Flanschen
Halter
Büchsen

③ Parts for hydraulic machines and aggregates

③ Teile für Hydraulikanlagen und -geräte



Valves
Shells
Pistons
Covers

Ventile
Hülsen
Kolben
Deckel

④ Parts for gear reducers

④ Teile fuer Getriebe



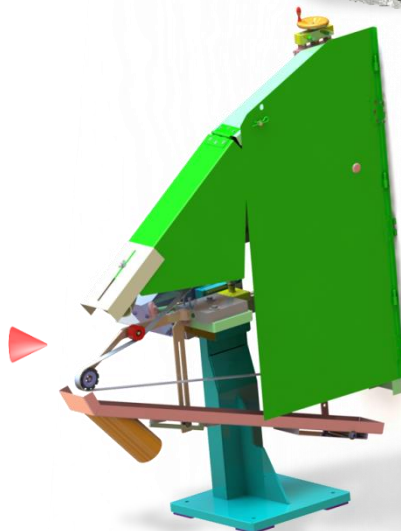
Zahnräder
Zahnradblöcke
Wellen
Achsen
Zahnradgetriebe

Teile fuer Getriebe
Gear blocks
Arbors
Axles
Gear reducers



⑤ Belt polishing machine

Belt polishing machine for manual correction of curved surfaces with low tolerances is designed especially for aircraft engine turbine blades, vanes of hydraulic turbines, ships etc.



⑤ Die Band-Poliermaschine

Die Band-Poliermaschine für die manuelle Korrektur von gekrümmten Oberflächen mit geringen Toleranzen ist speziell für Turbinenschaufeln der Flugzeugmotoren, Schaufeln von Wasserturbinen, Schiffe usw. konzipiert.

Products of JSC „ASPA”

Die Produkte der ASPA AG

⑥ Special cutting tools for metalworking, including high speed steel, powder metallurgy high speed steel and carbide brazed plates.

⑥ Schneidewerkzeuge für Metallbearbeitung, einschließlich aus Hochleistungsschnellstahl (HSS), aus Pulvermetallurgie Schnellstahl (HSS-PM) und mit beschichteten Hartmetallplatten.

Different special axial tools:

Drills
counterbores
Reamers
Tap drills
Center drill
Combined tools



Bohrer
Senker
Reibahlen
Gewindebohrer
Zentrierbohrer
Kombinierte
Werkzeuge



Different lathe tools with brazed carbide plates.



Verschiedene
Drehstaehle mit
geloeteten HM-Platten.



Milling cutters
Side milling cutter
Plain milling cutter
End mill
Angle milling cutter
T-slot-milling cutter
Slitting cutter
Combined milling cutter

Fräser
Scheibenfräser
Walzenfräser
Schafffräser
Winkelfräser
T-Nutfräser
Trennfräser
Kombinierte Fräser



Thread rolling dies

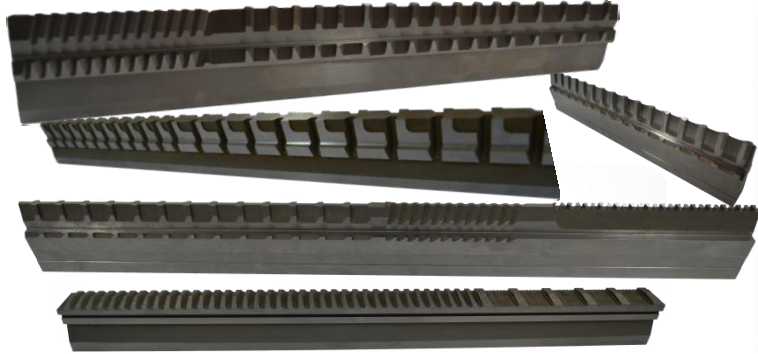


Rollen zum Gewindewalzen



Broaches
Round Broaches
Square Broaches
Hexagon Broaches
Slot broach
Evolvent Broach
Special profile broaches

Räumnadeln
Rundräumnadeln
Kvadraträumnadeln
Hexagonale Räumnadeln
Nutenräumnadeln
Evolvent Räumnadeln
Räumnadel mit speziellen Profilen



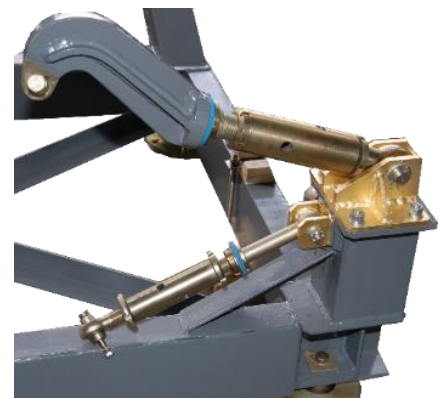
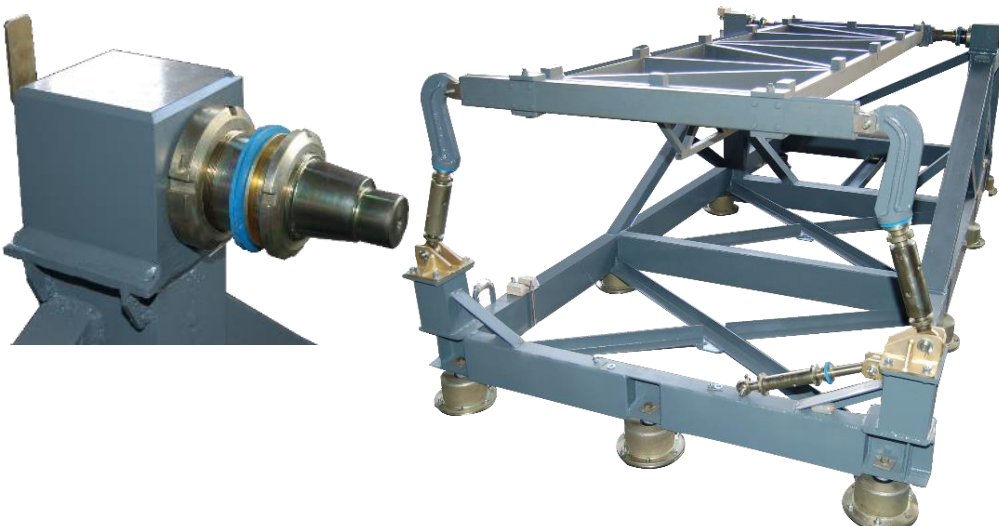
⑦ Technological equipment such as devices, molds, plastic molds, rubber molding presses, measuring tools including gauges and c-frames.

⑦ Technische Ausrüstung wie Stanzen, Gießformen für Kunststoff, Formpressen für Kautschuk, Messwerkzeuge einschließlich Messlehren und Messbügel.



⑧ Welded constructions for special purposes including shipping brackets.

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Technological Possibilities of the company

Technologische Möglichkeiten des Unternehmens

Machining	Spannende Fertigung
Turning Dmax=1000; Lmax=3000	Drehen. Max. Bearbeitungsdurchmesser: 1000 mm, Max. Bearbeitungslänge: 3000 mm
Drilling Dmax=60	Bohren. Max. Bohrdurchmesser: 60 mm
Milling 1000x1000	Fräsen. 1000x1000mm
Boring	Aufbohren
Broaching Lmax=1500	Räumen. Max. Bearbeitungslänge: 1500 mm
Planing L max=3000	Hobeln. Max. Bearbeitungslänge: 3000 mm
Thread rolling D=3...100	Gewindewalzen. Max. Bearbeitungsdurchmesser: 3...100mm
Grinding On flat grinding machine tools Lmax=3000 On plain grinding machines tools Dmax=400; Lmax=2000	Schleifen. An Planschleifmaschinen - Max. Werkstücklänge: 3000mm An Rundschleifmaschine - Max. Werkstückdurchmesser: 400mm, Max. Werkstücklänge: 2000mm
Sharpening	Schärfschleifen
Heat treatment	Wärmebehandlung
In electric furnaces Tmax=1100°C	In Elektroöfen Tmax=1100°C
In salt baths for high-speed steels Tmax=1250°C	Salzbäder für HSS Tmax=1250°C
Gas Heat-treatment	Gas-Wärmebehandlung
Heat treatment with high-frequency currents	Wärmebehandlung mit Hochfrequenzströmen
Brazing of carbide inserts	Auflöten von Hartmetallplatten
Surface heat treatment	Oberflächenwärmebehandlung
Forging	Schmieden
On pneumatic hammers	Mit pneumatischem Hammer
Nominal mass of the falling part: 400 kg	Gewicht des fallenden Körpers (fallendes Gewicht): 400kg
Cold pressing	Kaltpressen
On crank- pneumatic presses with nominal effort – up to : 100 tones	An Pneumatische-Kurbelpressen, Nennkraft: 100T
Painting	Beschichten
With Polymeric paint	Pulverbeschichtung
Plastic moulding	Kunststoffguss
Injection volume: 248 cm ³	Einspritzvolumen: 248 cm ³
Max. Dimensions of the form: 360×360×250 mm	Max. Abmessungen der Gussform: 360×360×250 mm
Manufacturing of rubber parts 400×400 mm	Herstellung von Gummiteilen Max. Abmessungen des Werkstücks: 400x400mm
Welding	Schweißen
Electric arc welding	Bogenschweißen,
Torch welding	Gasflammeschweißen
Electrical resistance (contact)	Elektrische Widerstandsschweißen
Friction welding	Reibschweißen
Electric arc welding in argon medium	Argon-Bogenschweißen
Metal cutting	Metallzerspanung
On band sawing machines Dmax=250	An Bandsägen. Max. Werkstückdurchmesser: 250mm
On guillotine scissors Max. thickness of the metal sheets: hmax=12	An Guillotine Schere Max. Dicke der Metallbleche: 12mm
On profiling machines	An Trennschleifmaschinen
With abrasive cut-off wheels	Mit abrasiven Trennscheiben
Electro-erosion machining	Elektroerosionsbearbeitung
On on wire eroding machine	An Drahterodiermaschinen
Max. workpiece weight: 200 kg	Maximalgewicht des Werkstücks: 200 kg
Max. workpiece dimensions: 250×360 mm	Max. Abmessungen des Werkstücks: 250×360 mm
Electro-spark machining	Elektrofunkenbearbeitung
On vertical eroding machine	An Senkerodiermaschinen
Min. workpiece width: 5 mm	Mindestdicke des Werkstücks: 5 mm
Max. workpiece dimensions: 30×125×160 mm	Maximale Abmessungen des Werkstücks: 30×125×160 mm
Chemical treatment	Chemische Behandlung
Chemical passivation	Chemische Passivierung
Oxidation (browning)	Oxidation(Brunieren)
Special quality control methods	Spezielle Prüfmethode
Surface Crack Detection	Kontrolle auf Oberflächenrisse
Colour penetration	Farbpenetrationstest
Magnetic powder inspection	Magnetpulver-Inspektion





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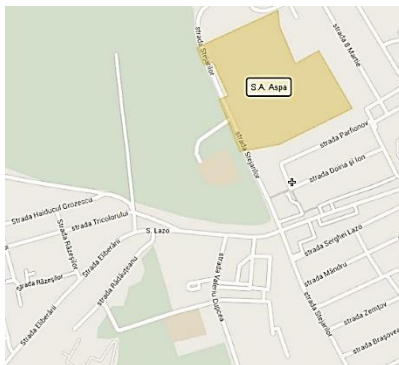
Krones AG

www.krones.com



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