

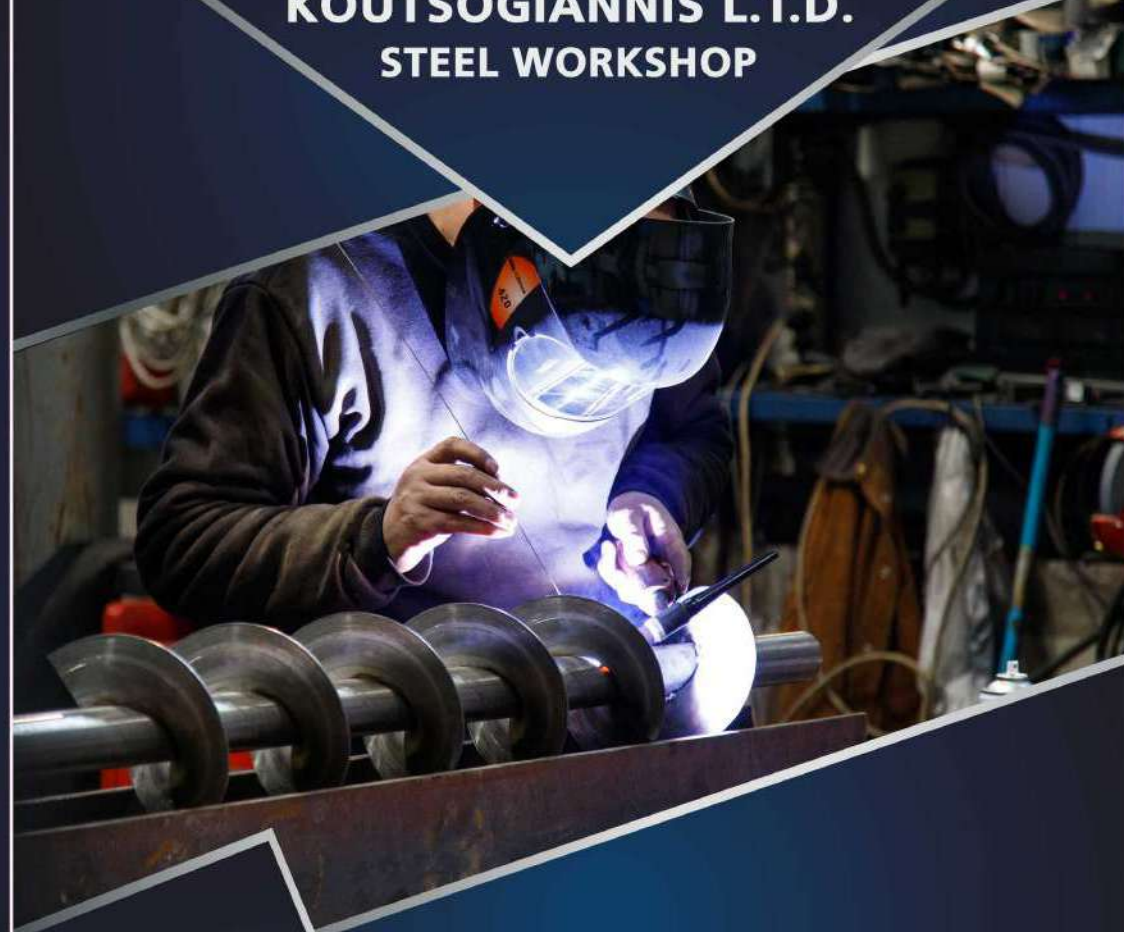


KOUTSOGIANNIS L.T.D.
STEEL WORKSHOP

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KOUTSOGIANNIS L.T.D.
STEEL WORKSHOP





The Company

D&B D-U-N-S Number: 503173706



**Design Production
Planning Department**



Koutsogiannis LTD – Steel Workshop was founded in 1994 by Mr. Koutsogiannis and Ms. Christofi. The company has been active for 24 years in the fields of mechanical engineering and repairs, emphasizing in the high quality and fast delivery times.

We are a company overlooking the sea, just 10 km from the port of Volos and above us the Mountain of Centaurs.

We are a small team. Titles and positions are of secondary importance for us.

Fostering long-term relationships with a diverse mix of latest technology and highly skilled employees.

Building on our long experience and in-depth know-how proven in numerous reference projects.

Team spirit is lived every day. We pull together in the same direction.

Together we have overcome any economic crisis.

We have no perfect marketing, but great products and a good advice for our customers.

Our success is confidence in our people and not their control.

Quality is the pride of every employee and not just a corporate goal.

A machining piece which is supplied to the customer is at first a piece from Kostas, Giannis, Nikos etc., and only secondarily one from Koutsogiannis LTD.

Customers are our friends and partners.

Each employee is responsible for the future of Koutsogiannis LTD.

The company's design department is one of the key departments in which the data analysis of a project and the responsible study for their implementation is carried out. The CAD – CAM design package we utilize is SIEMENS NX. There is also the capacity to copy an original piece (Reverse Engineering) in

addition to drawing up mechanical designs.

The production planning of the company hinges on its customers' demands and requirements aiming at their immediate and effective satisfaction.

The Computer Numerical Controlled machines department is comprised of 5 CNC lathes and 5 CNC milling machines centers.



This department is comprised of 6 conventional lathes, 1 Boring, 2 conventional milling machines, 2 conventional planers, sawmills, drills, etc.



Our company is certified for the methods being applied (WPQR) and has personnel – welders certified by an approved certification body (MIRTEC S.A.). What is more, the assembly of mechanical parts is conducted in this particular department.

Our company has certified welding methods in accordance with EN ISO 15614-1 and certified welders in accordance with EN ISO 9606-1.



**Computer Numerical
Controlled Machines
Department**



**Conventional Machinery
Department**



**Welding
Editing Department**



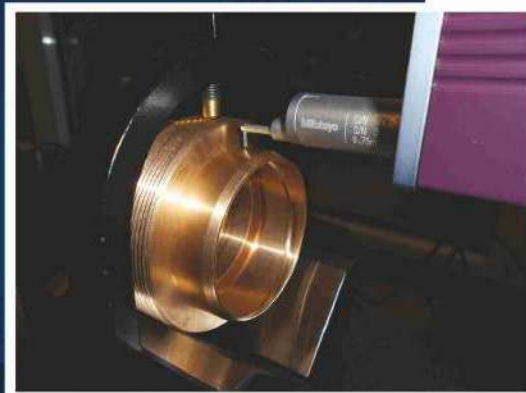


Quality Control

In the quality control department, the necessary controls of raw materials being used in the production process are carried out. Those materials are also accompanied by their respective quality certificates.

We check the quality of the products being manufactured or repaired by our company through all stages of production, each item at a time, using the appropriate measuring equipment we own and is certified by approved bodies (Q Control, Metro Cal).

We also have a Quality Management System in accordance with DIN EN ISO 9001: 2015 certified by an approved body (TUV NORD).



Mitutoyo Portable surface roughness tester SURFTEST SJ-410 Series

This is a portable measuring instrument that allows you to easily and accurately measure surface roughness.

Measuring range/ resolution

800µm/0.01µm

80µm/0.001µm

8µm/0.0001µm



Mitutoyo Contracer CV-2100M4 (Contour Measuring Instruments)

Fast and precise contour measuring is what the new and unique Contracer CV-2100 stands for, once more proving Mitutoyo's vast innovational power. The device boasts striking versatility as well as easy operability and is usable stationarily or on-site at the workpiece.

The devices' speed can be adjusted between 0.02 and 20 mm automatically via the part programming or manually. The measuring range adds up to 50 mm on the Z1 axis and 100 mm on the X axis at a high accuracy of $X=(\pm 2,5+0,02L) \mu m$ and $Z1=(\pm 2,5+10,1HI) \mu m$.

Hexagon Absolute Romer

Quality control, inspection, on-machine verification, reverse engineering, virtual assembly or 3D modelling. Wherever these needs arise, you will find the ROMER Absolute Arm. Much more than just a metrology tool, its value lies in its versatility. Portability, stability, light weight and high-performance laser scanners make the ROMER Absolute Arm an all-purpose 3D measurement, analysis and digitising tool that can be used by anyone, anywhere and with minimum training.



MICRO - HITE +M

The motorized gauge MICRO-HITE+M is distinguished first of all by its exclusive patented hand-wheel for displacement (FEEL&MOVE technology) that combines fast probe positioning with fluid execution of a measurement sequence. Universal machine developed for workshops and for laboratories that can be integrated as close as possible to the user. Indeed, the robustness of its cast iron base and frame make it to a reliable instrument that guarantees an excellent repeatability and precision in any kind of conditions. It is not only equipped with 1D basis functions, but also with advanced measuring modes (angle, programming, 2D, ...) that are welcome when certain metrological requirements become more constraining. With the integrated patented QUICKCENTER technology, the height gauge gives clear indications not only when certain capturing simple points but they become a proven advantage for the determination of the culmination points.



SPECIFICATIONS

Measuring force	1,6 ± 0.25 N
Units	mm / in
Standard	Factory standard
Resolution	0,0001 / 0,001 / 0,01 mm 0.00001 / 0.0001 / 0.001 in



TESA MICRO - HITE 3D

The MICRO-HITE 3D is a three-dimensional Coordinate Measuring Machine, measuring all known geometric elements quickly and easily. Adapted to any user, easy to master, it is the ultimate instrument for the workshop.



The Company's Management and all of its personnel are fully committed to participating in the attainment of its business objectives and to the continuous improvement through the installed QMS in accordance with ELOT EN ISO 9001:2015.

The attainment of these objectives is ensured by:

- ⚙ the implementation of the recorded Quality Management Procedures
- ⚙ using methods to measure and analyze data resulting from the monitoring of the QMS
- ⚙ the timely detection and handling of failures and avoiding repetition of past errors
- ⚙ directly addressing customer complaints in order to increase their satisfaction
- ⚙ providing the necessary resources and appropriate training to all personnel with a view to developing their knowledge and skills
- ⚙ planning and timely implementing actions aiming at continuous improvement of the Quality Management System and the Company's operation

All employees at KOUTSOGIANNIS LTD STEEL WORKSHOP perceive that quality is not only the Administration's responsibility but also the result of good cooperation.

This Quality Policy has been communicated to all personnel and is available to all Stakeholders. Its principles and objectives are periodically reviewed by the Administration.

Associates

BUCHER
unipektin

SMS group

SIDENOR
STEEL INDUSTRY S.A.

DOJARAN STEEL
MANUFACTURING AND TRADING COMPANY

SIELMAN
DEFENSE MANUFACTURING & MAINTENANCE

STOMANA
INDUSTRY S.A.
SIDENOR GROUP

SOVEL
ROLLING STEEL PROCESSING COMPANY S.A.

DEFENCO S.A.

HDVSE
ROLLING DEFENSE VEHICLE SYSTEMS S.A.

IS
Lykamitros steel S.A.

MEGAPLAST
INNOVATIVE PACKAGING SOLUTIONS S.A.

ASSIMAKIS S.A.
ADVANCED MACHINERY FOR EXTRUSION PLANTS

EIME
Member of SORG Group

Continental
CONTITECH

vetter

WAI
WECKENMANN

JUNG
WERKZEUGBAU

LONE Manufaktur
Lieferanten: Industrietechnik - CNC-Bearbeitung





DMF 360 linear TECHNICAL DATA

Work Area

Max. X. travels	3,600 mm
Max. Y travels	920 mm
Max. Z travels	820 mm

Table dimensions

Max. table load	5,000 kg
Table length	4,200 mm
Table width	900 mm

Workpiece dimensions

Max. workpiece height	750 mm
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Spindle

Standard speed	10,000 rpm
Drive power rating (100% DC)	25 kW (AC)
Torque (100% DC)	200 Nm

Tool magazine

Capacity	30
Max. capacity	120

Rapid traverse

Max. X axis	80 m / min
Max. Y axis	60 m / min
Max. Z axis	60 m / min

DMU 70 TECHNICAL DATA

Work Area

Max. X. travels	750 mm
Max. Y travels	600 mm
Max. Z travels	520 mm

Table dimensions

Max. table load	350 kg
Table diameter	800 mm

Workpiece dimensions

Max. workpiece height	560 mm
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Spindle

Standard speed	10,000 rpm
Max. speed (Option)	10,000 rpm
Drive power rating (100% DC)	9 kW (AC)
Torque (100% DC)	57 Nm

Tool magazine

Capacity	16
Max. capacity	16

Rapid traverse

Max. X axis	24 m / min
Max. Y axis	24 m / min
Max. Z axis	24 m / min





Gearhobbing

Highlights

- Programming of the gearing parameters via dialog input
- Straight, oblique, curved gears and worm wheels possible
- Gear cutters and disk cutters can be used
- Maximize tool life by "shifting" the cutter
- Achievable quality $\leq$ DIN 7

Gearskiving

Highlights

- Straight and helical external or internal spur gears and splines
- Arrow teeth with tooth offset Turn-mill machines
- Ball-shaped toothing by mathematical transformation of the 6th virtual axis

Polygon Milling

Broaching

NLX 2500 / 1250

TECHNICAL DATA & DOWNLOADS

Work Area

Max. swing diameter	920 mm
Max. turning diameter	366 mm
Max. work piece length with a tailstock (can be machined Type 1250)	1,255 mm
Max. chuck size	254 mm

Main spindle

Max spindle motor speed	4,000 rpm
Drive power rating (100% DC)	22 kW (AC)
Torque (100% DC)	862 Nm
Max. bar capacity diameter	102 mm

Counter spindle (Option)

Max spindle motor speed	6,000 rpm
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Turret (standard)

Number of driven tools / Max. speed	12 / 10000 rpm
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Turret slide

Rapid traverse rate X- / Y- / Z-axis	30/10/30 m/min
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Weight

Machine weight	7,760 kg
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NLX 2500MC / 700

TECHNICAL DATA & DOWNLOADS

Work Area

Max. swing diameter	920 mm
Max. turning diameter	366 mm
Max. work piece length with a tailstock (can be machined Type 700)	728 mm
Max. chuck size	254 mm

Main spindle

Max spindle motor speed	4,000 rpm
Drive power rating (100% DC)	22 kW (AC)
Torque (100% DC)	862 Nm
Max. bar capacity diameter	102 mm

Counter spindle (Option)

Max spindle motor speed	6,000 rpm
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Turret (standard)

Number of driven tools / Max. speed	12 / 10000 rpm
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Turret slide

Rapid traverse rate X- / Y- / Z-axis	30/10/30 m/min
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Weight

Machine weight	7,760 kg
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NLX 2500SY / 700

TECHNICAL DATA & DOWNLOADS

Work Area

Max. swing diameter	920 mm
Max. turning diameter	366 mm
Max. work piece length with a tailstock (can be machined Type 700)	728 mm
Max. chuck size	254 mm

Main spindle

Max spindle motor speed	4,000 rpm
Drive power rating (100% DC)	22 kW (AC)
Torque (100% DC)	862 Nm
Max. bar capacity diameter	102 mm

Counter spindle (Option)

Max spindle motor speed	6,000 rpm
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Turret (standard)

Number of driven tools / Max. speed	20 / 10000 rpm
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Turret slide

Rapid traverse rate X- / Y- / Z-axis	30/10/30 m/min
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Weight

Machine weight	6,360 kg
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VTC-300C

MACHINE CHARACTERISTICS:

- ☉ Long fixed table design
- ☉ Optional table partition available
- ☉ Standard 12,000-rpm CAT 40-taper spindle
- ☉ 36,000 mm-pm rapid traverse rate
- ☉ 24-tool (48 optional) storage capacity
- ☉ Automatic tool changer
- ☉ Maximum table load of 1,500 kg

MACHINE SPECIFICATIONS

SPECIFICATIONS		VALUES
Capacity	Table Right/Left	78.740 in / 2000 mm
	Table Longitudinal	30.000 in / 760 mm
Spindle	Spindle Taper	40
	Maximum Speed	12000 rpm
	Motor Output (30 minute rating)	15.0 hp / 11 kw
Magazine	Number of tools	24
Feed Axes	Travel (X Axis)	65.35 in / 1660 mm
	Travel (Y Axis)	30.00 in / 760 mm
	Travel (Z Axis)	26.00 in / 660 mm

MYNX 500

Min - Max Height Under Spindle	200 - 774mm
Traverses XYZ	1020 x 510 x 510mm
Spindle Speed	8000rpm
Spindle Motor Power	11/15kW
Control	FANUC 21iM
Tool Change Capacity	24 Station
Tool Size	BT40
Table Size	1200 x 500mm
A Axis	0.001 degree
A Axis Unit	Nikken with 12" chuck
Serial Number	AV5E0881

Description:

Coolant, 4th Axis Rotary Table, Interlocked guards,
Low Volt Light, Manuals, Remote Hand Wheel,
Swarf Conveyor





NEF 600 TECHNICAL DATA & DOWNLOADS

Work Area

Max. swing diameter	600 mm
Max. turning diameter	600 mm
Max. work piece length with a tailstock (can be machined)	1,190 mm
Max. chuck size	315 mm

Main spindle

Max spindle motor speed	3,500 rpm
Drive power rating (100% DC)	28 kW (AC)
Torque (100% DC)	590 Nm
Spindle diameter in the front bearing	160 mm
Max. bar capacity diameter	92 mm

Turret (standard)

Tool holder according to VDI / DIN 69880	12
Number of driven tools / Max. speed	12 / 4000 rpm
Drive power rating (100% DC)	2 kW (AC)
Torque (100% DC)	28 Nm

Turret slide

Rapid traverse rate X- / Y- / Z-axis	30/ - /30 m/min
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Weight

Machine weight	5,500 kg
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EcoTurn 510 TECHNICAL DATA

Work Area

Swing over bed	680 mm
Max turning diameter	465 mm
Clamping chuck diameter	250 - 315mm
Longitudinal travel (Z)	1050mm

Main Spindle

Max speed	3250 rpm
Drive power(40% / 100% DC)	33/22 kW
Max Torque(40% / 100% DC)	630/420 Nm

Turret (standard)

Number of driven tools	12
Max speed	4000
Feed Drive	
Rapid Traverse X/Z	30/30 m/min

DMC 1035V ECOLINE TECHNICAL DATA

Work Area

Max. X. travels	1,035 mm
Max. Y travels	560 mm
Max. Z travels	510 mm

Table dimensions

Max. table load	1,000 kg
Table length	1,200 mm
Table width	560 mm

Spindle

Standard speed	12,000 rpm
Max. speed (Option)	12,000 rpm
Drive power rating (100% DC)	9 kW (AC)
Torque (100% DC)	54 Nm

Tool magazine

Capacity	20
Max. capacity	20

Rapid traverse

Max. X axis	30 m / min
Max. Y axis	30 m / min
Max. Z axis	30 m / min





INVESTMENTS

The continuous technological changes and the increased requirements of the industrial area led our company to the decision to implement a development program for the further development of both the buildings and the mechanical equipment. With the implementation of the development program, it is expected that new projects will be undertaken, the production costs will be reduced, the production function will improve significantly, as well as the growth in turnover and profitability. Our company has decided to invest in 3 CNC machines as well as in the expansion of the building facilities.

An addition will be made with the construction of an Industrial Building measuring **1.333 sqm.** and a height of **11.43m** which will be used for the installation of the new mechanical equipment with the aim of increasing the production capacity of the unit.

DMU 50 3rd Generation – PH NC Universal Milling Machine with swivel rotary table

Max. X travels	650mm
Max. Y travels	520mm
Max. Z travels	475mm
Max. table load	300kg
Table diameter	630mm

Highlights

- Cost-effective automation solution
- 6 pallets
- Compact solution: 16 m² space requirement

Technical data

Workpiece	
Maximum workpiece weight (kg)	250
Maximum pallet/workpiece size (mm)	Ø500x500

Capacity

Maximum number of stations (pallets)	6
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DMG Mori – NLX 6000

Large Turning centre Capable
of Powerful Machining of Large-diameter Shafts

Work Area

Max. turning diameter	920 mm
Max. work piece length with a tailstock (can be machined)	2,000 mm
Max. chuck size	610 mm
Max spindle motor speed	1,000 rpm
Control & software alternatives	Celos



DMG Mori – SPRINT 32/8

Complete machining of workpieces up to Ø 32 x 600
mm in a footprint of less than 2.8 m²
Bar loader IEMCA

Work Area

Max. turning diameter	32 mm
Max. work piece length	600 mm
Max. bar capacity diameter	32 mm
Max. number of axes	8
Integrated motor spindle (ISM) with a C-axis (0,001°)	8,500rpm
Max. number of tool pockets	28
Max. number of tool pockets	FANUC

Values

⚙ Responsibility

We always seek out the optimum solutions, we are committed to safety and quality and we honor our promises

⚙ Teamwork

We work as a team and produce results through team spirit and mutual respect

⚙ Innovation

We are favorably disposed towards adopting and implementing new, innovative ideas and we believe we can make the difference

⚙ Honesty

We strongly believe that honesty is the foundation of a long-lasting collaboration.

⚙ Code of Ethics towards customers – suppliers

We cultivate a strong relationship of mutual trust with our customers and suppliers

Vision

Our company's vision is to excel and be recognized from leading European industries by manufacturing high quality products.

Mission

- ⚙ Manufacture of high quality machining products to meet the complex needs of our customers
- ⚙ Ensuring profitable and sustainable growth, taking the market competition into account
- ⚙ Safe construction of machine parts and accessories
- ⚙ Creating high quality products and services for our customers
- ⚙ Trust and confidentiality vis-à-vis our customers and suppliers
- ⚙ Long-term relationships with our suppliers
- ⚙ Development of human resources through further developing the skills and competencies of our employees
- ⚙ Satisfaction, pride and reward for our employees

