



Golden 470

4 axes machining center

GEMMA

GOLDEN

4 axes CNC machining center for milling and drilling of components made of aluminium, steel and light alloys

STANDARD CHARACTERISTICS

Structure

- Heavily ribbed electrowelded steel basement with moving column
- Thanks to its strength and stability, it guarantees high quality machining and long-lasting reliability

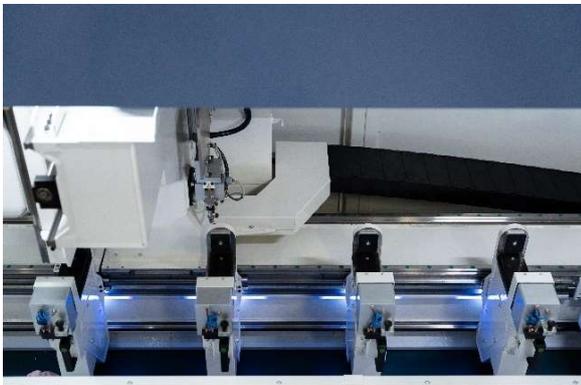
Working area

- 4 double action pneumatic clamps with LED positioning indicator
- Retractable pneumatic left stop



Axes (x-y-z)

- Axes movements controlled by brushless motors through precision ball screws and rack
- Movement on linear guides with automatic grease lubrication



Control panel

- OSAI control equipped with HICAM 2 operator interface to upload and run machining programs; list machining and visualization of workpiece/profile data
- Operator interface on 17" Windows PC
- Wi-fi and teleassistance
- Meets Industry 4.0's requirements



Electrospindle group

Compact electrospindle equipped with:

- high precision ceramic bearings lubricated for life
- HSK63F electrospindle taper that guarantees a strong tool-spindle coupling
- inverter for correct tool speed selection
- water cooling
- automatic tool changer for maximum flexibility in machining operations

Electrical cabinet

- IP 55 protection
- Air-conditioning unit

Safety

- Full fairing
- Complies with CE safety regulations as standard

General specifications



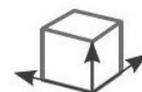
270 mm



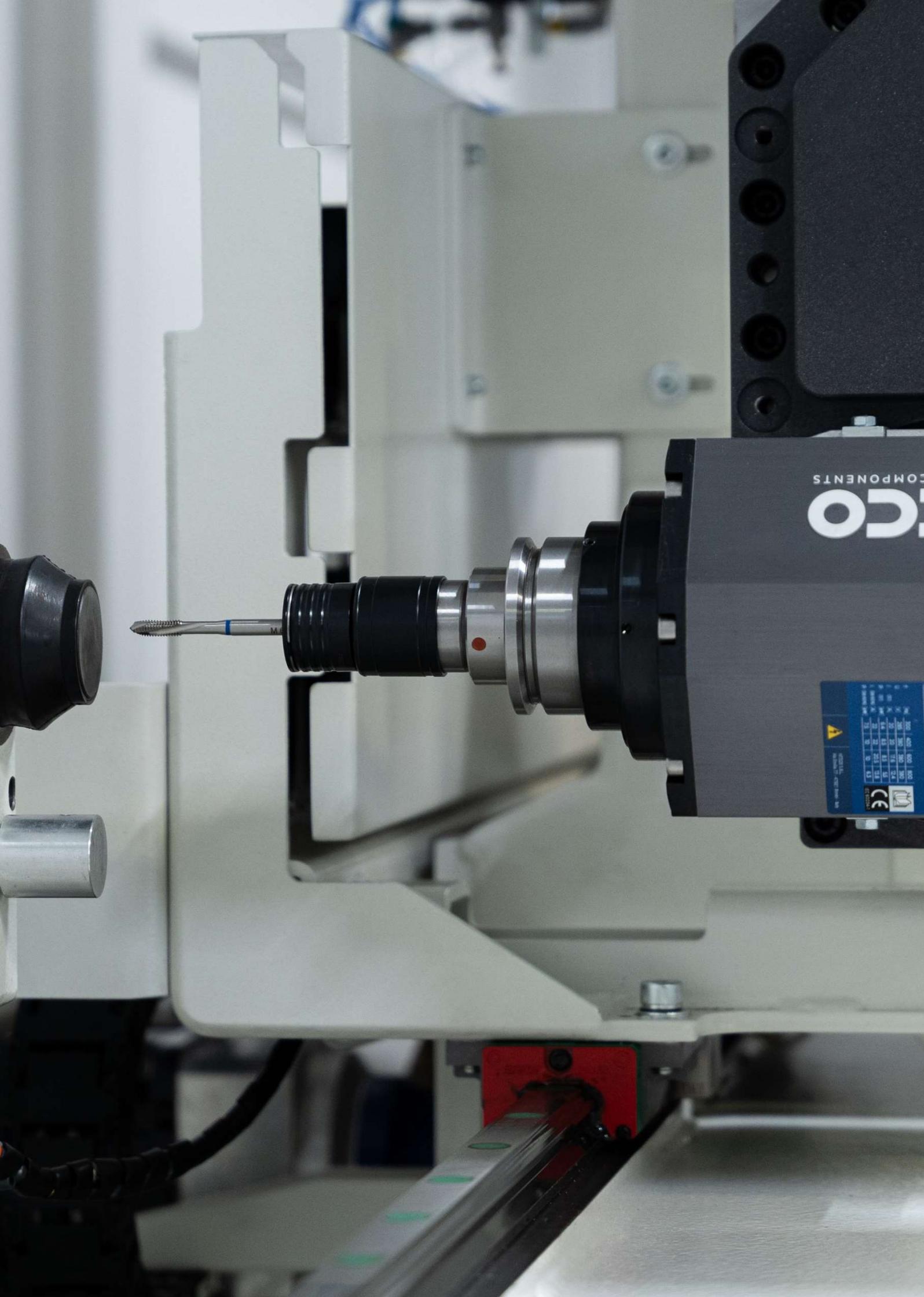
10 kW (S6)



5.7 00 kg



10.100x2.100x2.300 mm



CO
COMPONENTS

Model	200	400	600	800
Max. X	20	30	35	45
Max. Y	20	30	35	45
Max. Z	20	30	35	45
Max. Spindle Speed	20	30	35	45
Max. Torque	20	30	35	45
Max. Power	20	30	35	45
Max. Weight	20	30	35	45
Max. Length	20	30	35	45
Max. Diameter	20	30	35	45
Max. Hole Diameter	20	30	35	45
Max. Hole Depth	20	30	35	45
Max. Hole Diameter/Length	20	30	35	45
Max. Hole Diameter/Depth	20	30	35	45
Max. Hole Diameter/Length/Depth	20	30	35	45

CE

TECHNICAL INFO

Orthogonal axes (x-y-z)

X axis (longitudinal)	
Stroke	7300 mm
Speed	100 m/min
Acceleration	2 m/s ²
Y axis (transversal)	
Stroke	850 mm
Speed	80 m/min
Acceleration	2,5 m/s ²
Z axis (vertical)	
Stroke	500 mm
Speed	45 m/min
Acceleration	1,5 m/s ²

Pivoting axis (a)

A axis pivoting angles	+/- 90°
Speed	5 m/min
Acceleration	0,2 m/s ²

Power supply

Electric power (three-phase)	400 V / 50 Hz
Compressed air supply	7 Bar

Machining tolerance

Positioning accuracy	± 0,2 mm
Positioning repeatability	± 0,1 mm

Electrospindle group

Electrospindle power	10 kW (S6)
Electrospindle bearings lubrication	Lifelong
Electrospindle taper	HSK63F
Rotation speed (with inverter)	1.000-24.000 g/min

Automatic tool change

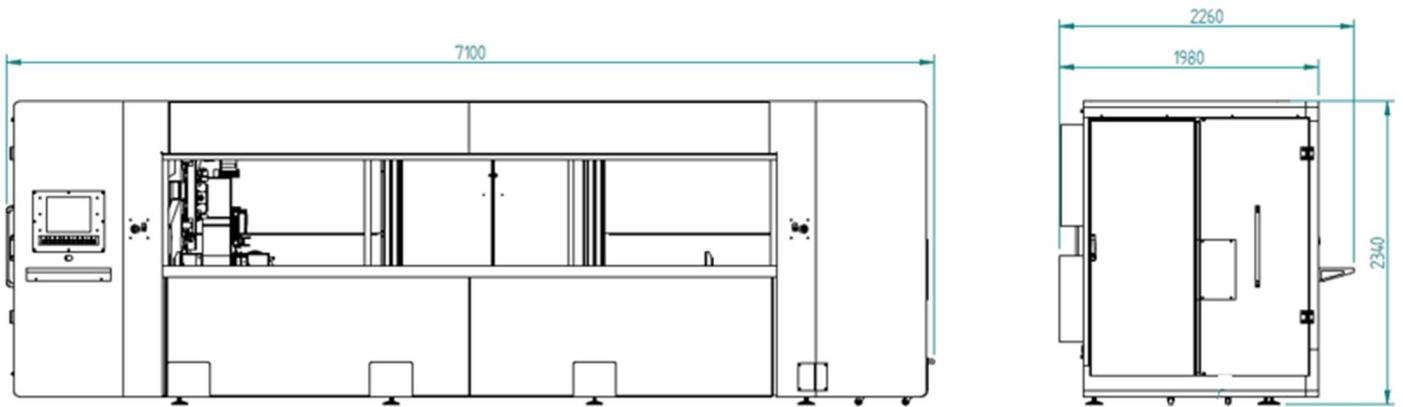
Tool magazine	Moving column
Number of tools	14 positions
Max cone length + tool	160 mm
Max cone weight + tool	10 kg
Tools included	4 (standard)
Holder clamp cones included	4



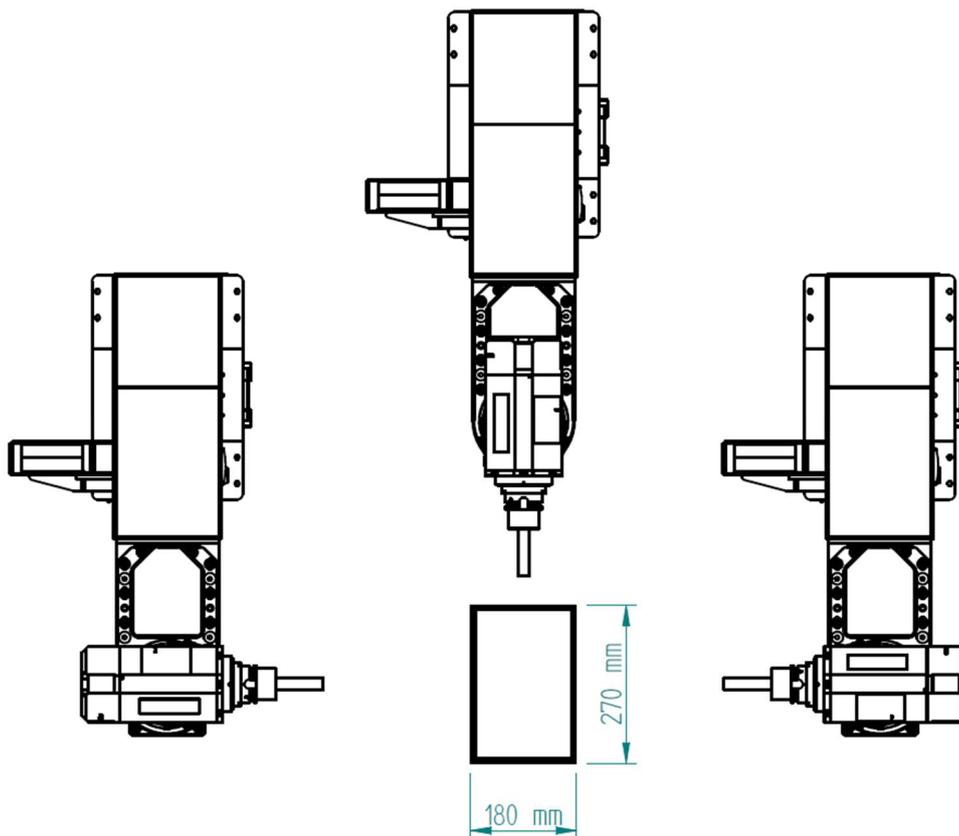
Optionals

- Automatic clamps
- Motorized clamps
- Extra couple of manual clamps
- Extra couple of automatic clamps
- Extra couple of motorized clamps
- Right hand retractable stop + pendulum machining
- Bar code reader
- Motorized conveyor belt
- Profile length measuring device
- Tool length measuring device
- Full fairing
- Oil tank 25 l
- HICAM 3 ADVANCE software license
- Additional HICAM 3 ADVANCE license
- Module to import data in NCX format for HICAM 3
- CAMQUIX software license
- Additional CAMQUIX license
- Module to import data in Text, XML or CSV formats for CAMQUIX
- 3D STEP-file detection CADXTRACT license
- Additional CADXTRACT license
- Autotransformer for special voltage (on request)
- UL-CSA compliant components
- Container shipping

Machine layout



Working fields





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