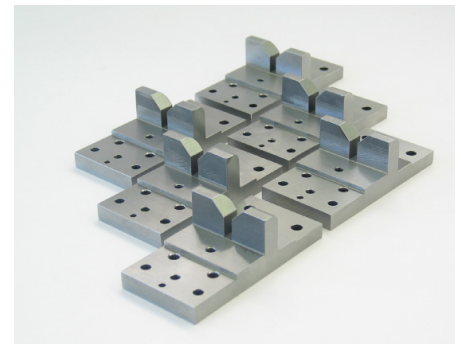
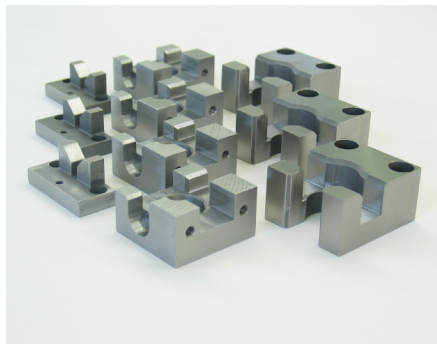
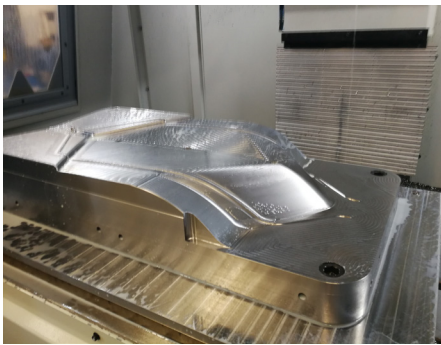


We've added a machining division to our company's services. We have a wide variety of technologies from CNC milling and turning to waterjet cutting and 3D printing. We offer custom and batch production of parts weighing up to 1t. The parts manufactured by us can be found in injection moulding machines, assembly lines, industrial robots all around the world.



Part manufacturing - CNC Machining

We have two WAGNER WMC 1100 CNC (30kW spindle power) with a 24 tool rotary magazine milling machine. We can quickly generate CNC code with our CAM software that greatly enhances turnaround time and precision. We can carry out 3D milling operations as well, that is needed for injection moulding tools, as can be seen on the figure above.

Apart from CNC milling we have turning capacity as well, we can take on automatic feeding and tool driven CNC late projects.



CNC turning parameters:

Length: 540 mm
Diameter: 360 mm

CNC machining parameters:

X: 1100 mm 3D milling
Y: 650 mm Precision: 10µm
Z: 650 mm

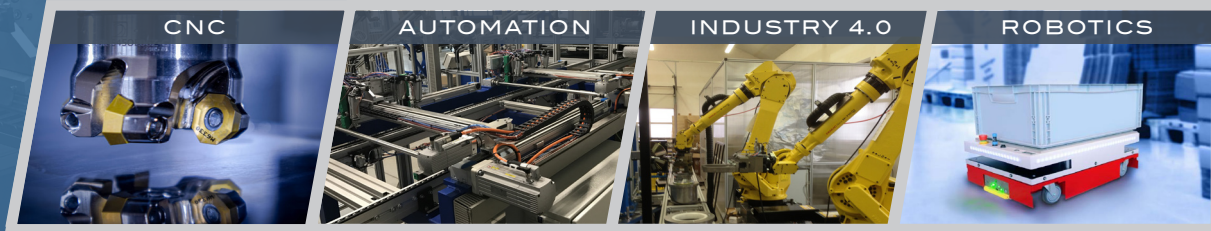
Waterjet cutting

One of our most productive machines is the OMAX MAXIEM 1530 professional waterjet cutting machine. The 3 x 1.5m manufacturing envelope and tool angle adjustment makes it suitable for the manufacturing of exceptional parts.

Waterjet cutting manufacturing parameters:

X: 3000 mm Accuracy: 100 µm
Y: 1500 mm Aluminium max. thickness: 250 mm
Z: 300 mm Steel maximum thickness: 250 mm



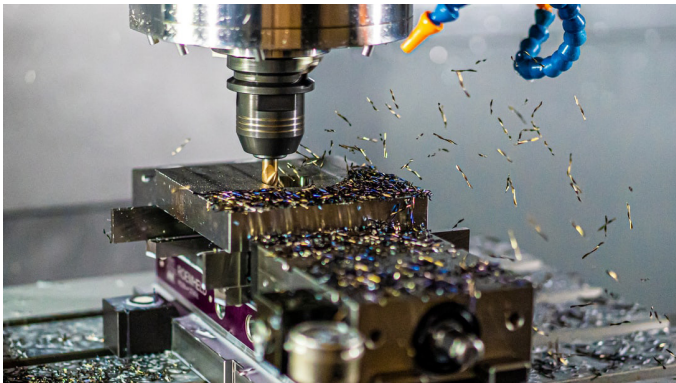


3D Printing

One of our newest investments is a STRATASYS F170 industrial grade 3D Printer, that offers an excellent solution in producing prototypes, functional prototypes and parts subjected to limited loading. Parts with cavities, complex geometries and undercuts can also be manufactured, and the support material removed in a chemical solution, resulting in good quality components.

3D printing manufacturing parameters:

X: 254 mm	Layer thickness: 0,33 - 0,127 mm
Y: 254 mm	Precision: 200µm
Z: 254 mm	Materials: PLA, ABS, ASA, PC-ABS



Precision - Quality control

In order to achieve high quality parts, not only the machines should be of good quality but the tools used for measurement and calibration. Our CNCs are equipped with RENISHAW equipment that guarantee the fast and precise processes. Our technicians verify the quality of the parts with MITUTOYO verniers, and should the need arise we can use our 3D TESA HITE 3D and HITE 400 measurement tools.

Jigs and Fixtures

Most manufacturing companies require jigs, fixtures and pallets of different complexities for their assembly processes. We have significant experience in manufacturing and assembling low and medium batch of these essential tools. Our tools are proving 24/7 our colleagues' valuable know-how at the plants of large multinational, OEM and Tier 1, automotive and manufacturing companies.

EXPRESS turnaround

In our industrial automation projects we experienced first hand that occasionally there is a need for urgent machining of some parts. We can accommodate urgent requests via our flexible work management to suit our customer's requirements.

We wait your requests at cnc@robotcenter.hu email address, or +36 30 211 6262 mobile phone.

