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CNC MILLING AND ENGRAVING MACHINE

# IMPALA 400 express



PRECISION IS OUR WORLD...



The CNC milling and engraving machine Impala 400*express* with servo drives in all 3 axes convinces by precision and durability. With its compact design and versatile functionalities it can be used in many different industrial applications.

The perfect balance of machine and self-developed control system, powerful accessories and high-quality tools ensures optimum economic efficiency when machining a wide variety of workpieces. Whether embossing punches and tools, injection moulds, molettes or small embossing cylinders, with the Impala 400*express* you achieve the best results in a short production time and high process reliability.

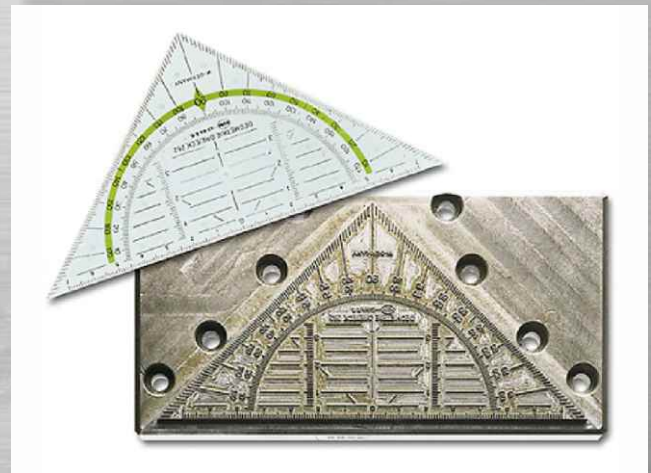
As all machines of the Impala series, the Impala 400*express* also has a temperature-stable and vibration-damping granite base. This enables the dynamic processing of a wide variety of materials with highest precision, ensuring that an excellent surface quality can be achieved at any time.

## Advantages

- ✓ Touch operation
- ✓ Highest precision with short production times due to the high-resolution 4-axis servo motor control LNC *express* made by LANG
- ✓ Excellent machine quality thanks to many years of experience
- ✓ Reduced space requirement as a result of the compact design - especially when the doors are open
- ✓ Z-stroke of 250mm for more machining possibilities
- ✓ Consistent customer- and process-oriented overall concept for short production times
- ✓ Easy and fast change of CAM strategies on the machine when using the optional LANG software
- ✓ Exact reproducibility
- ✓ High process reliability as a result of integrated glass scales
- ✓ Ideal conditions for wet processing due to integrated oil and chip collection and an extractable chip tray
- ✓ Central connection panel for machine supply and accessories (electricity / cooling water / compressed air and other accessories)
- ✓ Good accessibility for cleaning and maintenance through additional maintenance openings in the machine housing
- ✓ Device for the connection of an oil mist suction
- ✓ Rotary engraving device as option

# Typical Applications

## Embossing dies



## Embossing dies



## Molettes



## Cliches for security papers



Hot foil stamps



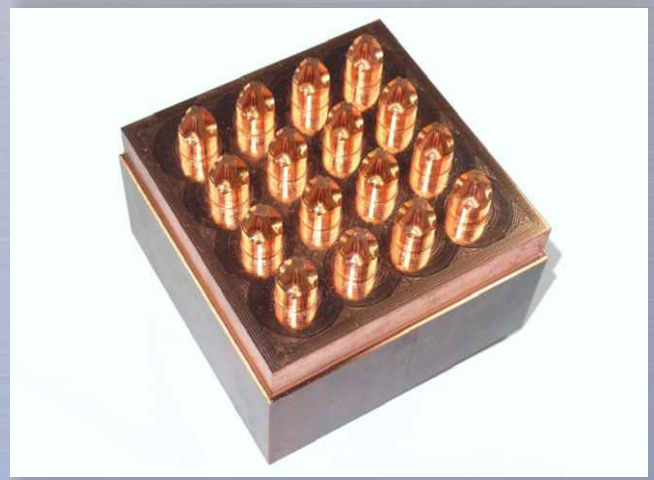
Hot foil stamps



Injection molds



Electrodes



## Technical Data



Work surface (X x Y x Z) (mm) (")	650 x 550 x 250 (25,59 x 21,65 x 9,84)		
Clamping surface (X x Y) (mm) (")	672 x 700 (26,46 x 27,56)		
Load Capacity max. (kg)	300		
Traversing speed feed max. (m/min)	10		
Output software	LDriver		
Controller	LNC express		
Tool charger	Pick-up tool changer with 8 or 16 stations		
Weight of machine (kg)	ca. 2500 (plus accessories)		
Machine dimensions (B x D x H) (mm) (") <small>(folded control panel)</small>	1760 x 2500 x 2420 ( 69,29 x 98,43 x 95,28) <small>(depending on equipment, exact dimension acc. to transport plan)</small>		
<b>Milling spindle</b>			
Power (kW)	1,2	2,6	more on request
Rotation Speed (U/min)	60.000	50.000	
Change cone	WK 16-6	WK 19-10 / HSK25	

## Complete system solutions

We offer complete system solutions for your milling and engraving applications. From the digitizing system LDigit *express*, the software LErgoCAD and Relief-Designer to the individual machine conception and product-specific training, with LANG you have only one partner from the idea to the finished product.

Our decades of experience in the field of mechanical and control engineering and in the development of software guarantees you process reliability and the highest quality in the machining of your workpieces.

## Options

### Rotary engraving device (4th axis)

Different rotary engraving device for every type of the Impala series are available. These devices allow the machining of rotationally symmetric surfaces like embossing cylinders.

### Tool changing systems

We offer 8-, 16- and 22-pick-up change systems.

### Different Lubrication Systems

Oil mist device

Oil circulation system

Compressed air cooling

### Camera systems

Various selectable camera systems allow a comfortable setting and workpiece measurement directly on the machine.

### Milling spindle packages

We offer several spindle packages in different performance classes for the most diverse machining tasks.

### Measuring systems

Renishaw measuring probe MP15

Tool length measurement Blum Z-Nano

IR edge probe

Swivable edge probe

### Training and Service

Our extensive service ensures maximum machine availability and process reliability of your production. Besides the personal on-site service, our online and hotline support helps to keep downtimes of your machine as low as possible. In addition the LANG service range contains equipment upgrades, software updates as well as trainings to ensure an efficient and optimal handling of our milling machines.

