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CNC MILLING AND ENGRAVING MACHINE

# IMPALA 400SL



PRECISION IS OUR WORLD...



The new CNC-controlled milling and engraving machine Impala 400SL impresses with its linear drive on all 3 axes. It offers highest dynamics combined with exact positioning and repeat accuracy. Whether stamping dies and tools, injection moulds, molettes or small embossing cylinders - combined with a compact machine design and a wide range of functions, the Impala 400SL can be used in a huge variety of industrial applications.

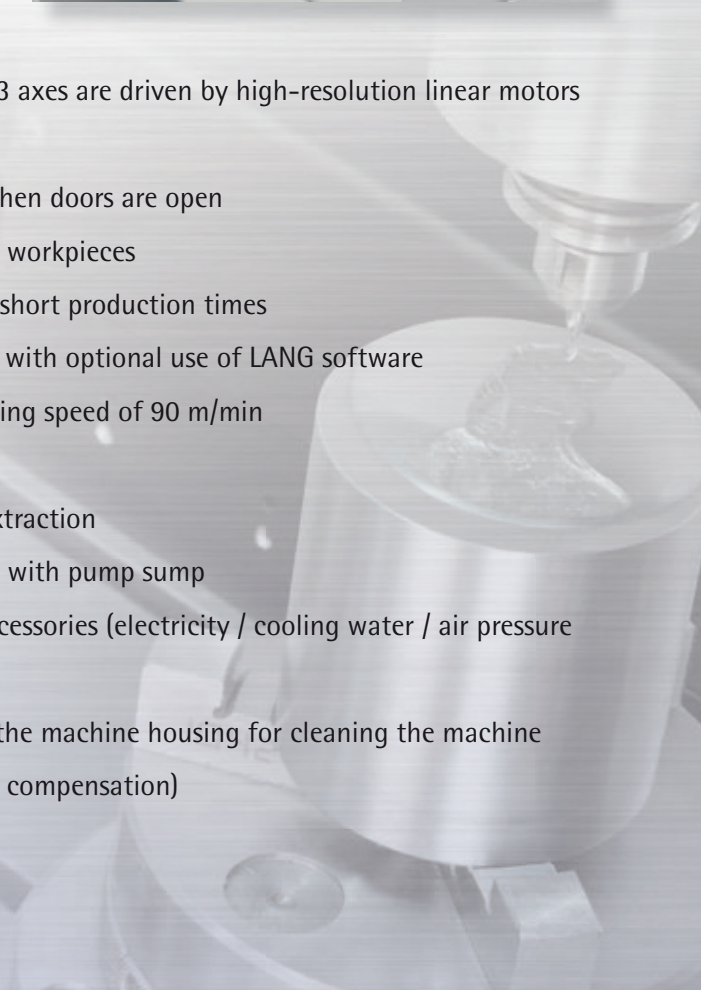
The perfect match of machine, powerful accessories and high-quality tools guarantees the best possible profitability for machining of various workpieces and materials.

Like all machines of the Impala-series, the latest version of the Impala 400SL has a temperature-stable and vibration damping granite bed. In addition, it offers the possibility of using a spindle with compensation of the spindle growth, which leads to even higher process reliability and surface accuracy.



## Advantages

- ✓ Touch operation
- ✓ Highest precision with short production times, since all 3 axes are driven by high-resolution linear motors
- ✓ Excellent machine quality
- ✓ Low space requirement due to compact design - even when doors are open
- ✓ Z-stroke of 250mm for more flexibility when machining workpieces
- ✓ Consistent customer- and process-oriented concept for short production times
- ✓ Easy and fast change of CAM strategies on the machine with optional use of LANG software
- ✓ Exact reproducibility combined with a maximum traversing speed of 90 m/min
- ✓ High process reliability
- ✓ Possibility of wet processing / Preparation for oil mist extraction
- ✓ Integrated oil and chip tray and an extractable chip pan with pump sump
- ✓ Central connection panel for machinery supplies and accessories (electricity / cooling water / air pressure and other accessories)
- ✓ Easy access due to additional maintenance openings in the machine housing for cleaning the machine
- ✓ Spindles up to 10 KW (also possible with spindle growth compensation)
- ✓ Hard machining



## Typical Applications

### Embossing dies



### Embossing cylinders



### Molettes



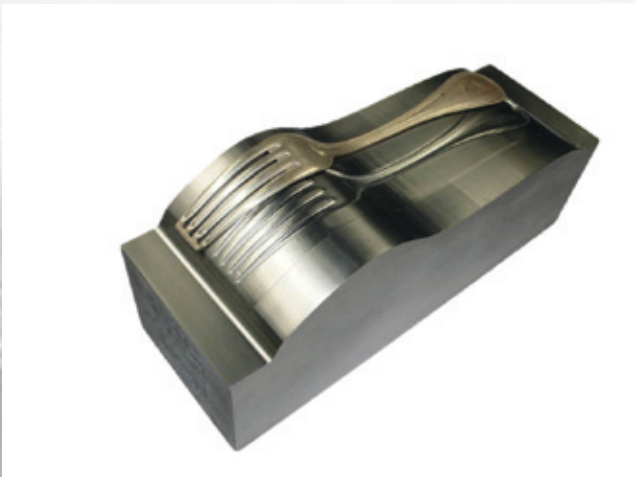
### Cliches for security papers



### Hot foil stamps



### Forging dies



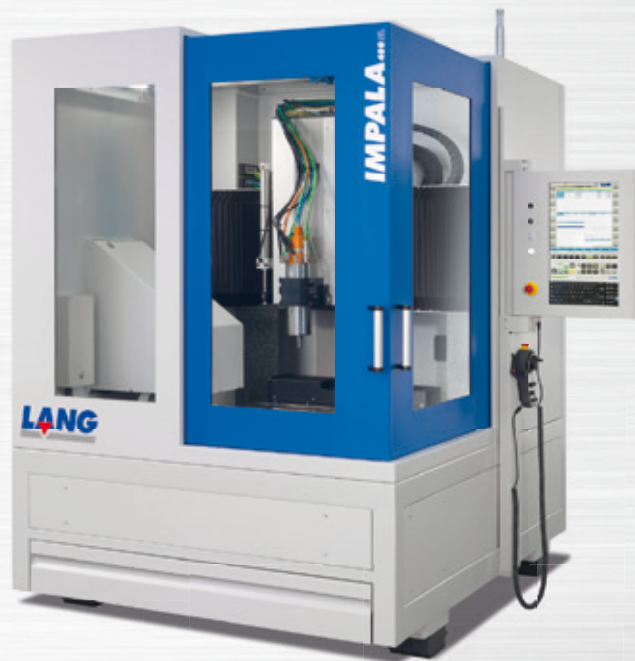
### Injection molds



### Electrodes



## Technical Data



Work surface (X x Y x Z) (mm) (")	500 x 550 x 250 (19,69 x 21,65 x 9,84)		
Table size (X x Y) (mm) (")	700 x 650 (27,56 x 25,59)		
Load Capacity max (kg)	300		
Traversing speed feed max (m/min)	90		
Output software	LDriver		
Controller	Bosch Rexroth MTX Andronic 3060		
Tool Changer	Pick-up tool changer – up to 16 stations Disc changer – 20 stations		
Weight of machine (kg)	ca. 3000 (plus accessoires)		
Machine dimensions (W x D x H) (mm) (") (folded control panel)	1760 x 2000 x 2500 (69,29 x 78,74 x 98,43) (depending on equipment, exact dimensions acc. to transport plan)		
Milling spindle			
Power (kW)	1,2	2,6	10
Rotation Speed (Rpm)	60.000	50.000	42.000
Change cone	WK 16-6	WK 19-10 / HSK25	HSK32
Bearing	Ceramic hybrid ball bearing, maintenance free for all versions		

## Complete system solutions

We offer complete system solutions for your milling and engraving applications.

Beginning with the digitizing system LDIGIT, followed by software LErgoCAD and Relief-Designer up to an individual machine conception and product-specific training, with LANG you have only one partner from the idea up to the finished product.

Our decades of experience in the field of machine and control construction as well as in the development of software guarantees process reliability and maximum quality in the machining of your workpieces.

## Options

### Round axis (4th axis)

Different round axis devices for every type of the IMPALA-series are available. These devices allow the machining of rotationally symmetrical surfaces like embossing cylinders.

### Tool changing systems

Pick-up tool changer – 8 times or 16 times

Disc changer - 17 times

### 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

Blum edge probe TC 62

Tool length measurement Blum Z-Nano

Blum Laser Measurement

### 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.

