

NEU

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CNC MILLING AND ENGRAVING MACHINE

# IMPALA 400SL



**LANG**

PRECISION IS OUR WORLD...

The new CNC milling and engraving machine IMPALA 400SL of LANG IMPALA-series convinces with compact design and optimized functionality, that enables the use in many different applications.

The perfect balance of machine, powerful accessories and high-quality tools also ensures optimum efficiency in machining different work pieces.

Whether dies and tools, injection molds, molette or small embossing cylinders, with the IMPALA 400SL you achieve best results in short production time and with high process reliability.

Like all machines of the IMPALA-series the latest version of the IMPALA 400SL also has a temperature-stable and vibration-damping granite basis. This enables dynamic processing of very different materials with highest precision so that you always achieve an excellent surface quality.

## Advantages:

- ✓ Touch operation
- ✓ Highest precision results with short production times
- ✓ Excellent machine quality by long-standing experience
- ✓ Small required floor space by the compact design - especially when doors are open
- ✓ Z-stroke of 250mm for a greater flexibility while processing the work pieces
- ✓ 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
- ✓ High process reliability
- ✓ Optimal conditions for wet processing by integrated oil and chip pan and an forward extendable chip tray with pump sump
- ✓ Central connection panel for machinery supplies and accessories (electricity / cooling water / air pressure and other accessories).
- ✓ Easy accessibility by additional openings for maintenance in the machine housing to clean up the machine faster and easier.
- ✓ Device for a connection to the oil mist extraction
- ✓ Circular engraving device as an option



## Typical Applications:

### Embossing dies



### Embossing cylinders



### Molettes



### Cliches for security papers



### Hot foil stamps



### Forging dies



### Injection molds for the toy industry



### Electrodes



## Technical Data



Work surface (X x Y x Z) (mm) (")	500 x 400 x 250 (19,69 x 15,75 x 9,84)			
Clamping surface (X x Y) (mm) (")	700 x 520 (27,56 x 20,47)			
Load Capacity max (kg)	300			
Traversing speed feed max (m/min)	90			
Output software	LDriver			
Controller	Bosch Rexroth MTX LTi Andronic 3060			
Tool changer	Pick-up tool changer – 8 times or 16 times Disc changer - 17 times			
Weight of machine(kg)	ca. 2500 (plus accessoires)			
Machine dimensions (H x W x D) (mm) (")	2250 x 2000 x 2465 (88,58 x 78,74 x 97,05) (depending on equipment, exact dimensions acc. to transport plan)			
<b>Milling spindle</b>				
Power (kW)	1,6	2,6	10	5,5
Rotation Speed (U/min)	60.000	50.000	42.000	80.000
Change cone	WK16-6	WK19-10 / HSK25	HSK32	HSK25
Bearing	Ceramic hybrid ball bearing maintenance free	Ceramic hybrid ball bearing maintenance free	Ceramic hybrid ball bearing maintenance free	Aerostatic
Options			Internal coolant supply	Internal coolant supply Vector position control

## 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

### 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.

