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CNC MILLING AND ENGRAVING MACHINE

IMPALA 400LNC



PRECISION IS OUR WORLD...

LANG

The CNC milling and engraving machine IMPALA 400LNC 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, molettes or small embossing cylinders, with the IMPALA 400LNC 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 400LNC 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:

- ✓ 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 extendable chip tray to the back
- ✓ 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



| | | |
|---|--|-----------------|
| Working area (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 550 (27,59 x 21,65) | |
| Load capacity max (kg) | 300 | |
| Traversing speed max (m/min) | 6 | |
| Output software | LDriver | |
| Controller | LNC compact | |
| Tool changer | Pick-up tool changer – 8 times or 16 times | |
| Weight of machine (kg) | ca. 2500 (zzgl. Zubehör) | |
| Machine dimensions (H x W x D) (mm) (") | 1950 x 1955 x 2400 mm (76,77 x 76,97 x 94,49) (depending on equipment, exact dimensions acc. to transport plan) | |
| Milling Spindle | | |
| Power (kW) | 1,2 | 2,6 |
| Rotation speed (U/min) | 60.000 | 50.000 |
| Change cone | WK16-6 | WK19-10 / HSK25 |

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 symmetric surfaces like embossing cylinders.

Tool changing systems

We offer 8 and 16 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

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.

