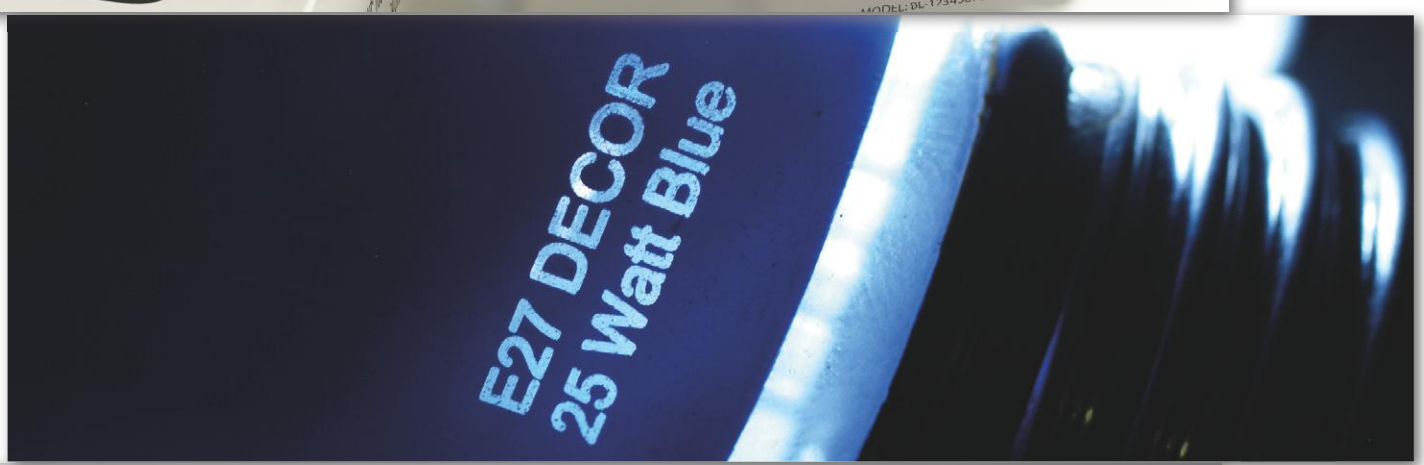
beLaser®

Wir setzen Zeichen!

Product portfolio

Laser systems | Contract labeling | Laser for rent

MADE IN GERMANY



MADE IN GERMANY

MADE FOR A LONG LIFETIME

Table of contents

Why choose a laser system from beLaser?

beLaser is your specialist for everything about laser marking.

We don't find the right laser - we built it:

Highly durable

High-quality components ensure **long operating life** and maximum reliability.

Cost-efficient

Specially designed ventilation systems ensure stable laser performance while keeping power consumption to a minimum - **reducing consumption and maintenance costs** and also protecting the environment.

Secure

Laser classification according to European Standard (DIN EN 60825) and the highest safety standards according to PL e (Performance Level) make our systems **the safest of their kind**.

Bulletproof

By default, our **anti-reflection coating** prevents feedback of the often destructive back radiation for the lasers.

Smart

Easy to use and equipped with many extras is our powinterful software beLaserMark. **Our internal software development** makes every connection possible.

Support

Before the purchase and especially afterward, our **experienced service team** is available for all questions and concerns about your system. You can also use our sample and set-up service.

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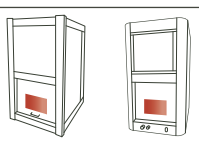
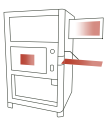
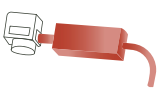
MADE FOR A LONG LIFETIME

Which beam source is best suited for my material?

	Metal	Coatings	Wood	Organic materials	Plastics	Textiles	Glass
							
Green laser	~	~	✗	✗	✓	~	✓
UV-Laser	~	~	✓	✓	✓	~	✓
Fiber laser	✓	✓	✗	✗	✓	✗	~
CO2 Laser	~	✓	✓	✓	✓	✓	✓

✓ Very good ~ Possible ✗ Not possible

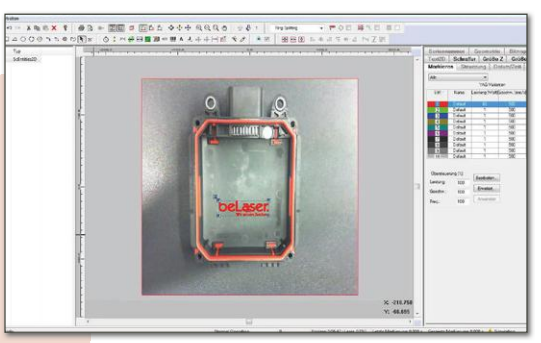
Which laser system is suitable for my beam source?

	LMF compact	Workstation LMG	Workstation LMG IND	Integration laser
				
Green laser	✗	✓	✓	✓
UV-Laser	✗	✓	✓	✓
Fiber laser	✓	✓	✓	✓
CO2 Laser	✗	✗	✓	✓

✓ Yes ✗ No

Marking software „beLaserMark“

- Own software development for connections of any kind
- Import of all common vector and raster formats
- Creation of barcodes and data matrix formats
- Optimal positioning of the labeling through an integrated camera



Interface connections

SAP/ ERP	I/O Interface
Profinet/ Profibus	APP and Smartphone
EtherNet	TCP/ IP

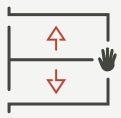
Further connections are available.

LMF compact - Easy

Texts, logos, vector data, QR- DataMatrix- and bar codes, variable data sets, image engravings

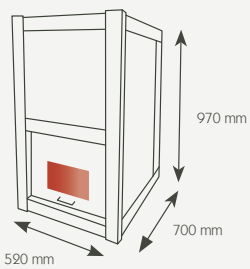
„Your start into the world of laser - ideal for small quantities.“

Laser protection class 1



Manual lifting door

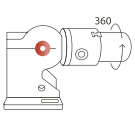
ca. 400 mm x 450 mm



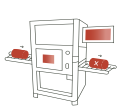
Technical data:

Laser marking system LMF Easy	LMF-eM20	LMF-eM30	LMF-eM50
Laser type	compact fibre laser		
Wavelength	1064 nm		
Nominal capacity	20 W	30 W	50 W
Pulse rate	1-4000 kHz	1-4000 kHz	1-4000 kHZ
Pulse width	2-350 ns	2-350 ns	2-350 ns
Pulse modulation	Yes	Yes	Yes
Laser protection class DIN EN 60825	1		
Cooling system	Air cooling		
Operating temperature	10-40 °C		
Power connection	230 V		
Power consumption	300 W		

Add-ons



Rotation unit



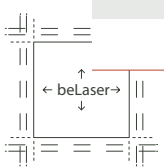
Lateral load through

The component height depends on the lens.

X

Labelling field

up to 220 mm x 220 mm



Other labeling field sizes are possible.

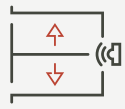
Further information

LMF compact - Pro

Texts, logos, vector data, QR- DataMatrix- and bar codes, variable data sets, image engravings

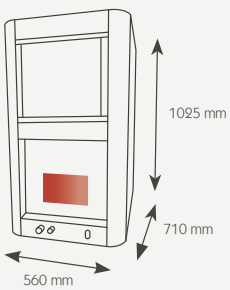
„Powerful compact fibre laser for series production with numerous add-ons.“

Laser protection class 1



Automatic lifting door

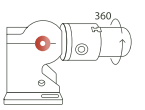
ca. 400 mm x 450 mm



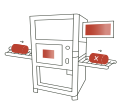
Technical data:

Laser marking system LMG Pro	LMG-p20	LMG-p30	LMG-pM20	LMG-pM30	LMG-pM50
Laser type	Compact fibre laser				
Wavelength	1064 nm				
Nominal capacity	20 W	30 W	20 W	30 W	50 W
Pulse rate	1-400 kHz	1-400 kHZ	1-4000 kHz	1-4000 kHz	1-4000 kHZ
Pulse width	200 ns	200 ns	2-350 ns	2-350 ns	2-350 ns
Pulse modulation	No	No	Yes	Yes	Yes
Laser protection class DIN EN 60825	1				
Cooling system	Air cooling				
Operating temperature	10-40 °C				
Power connection	230 V				
Power consumption	300 W				

Add-ons



Rotation unit

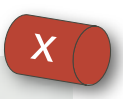


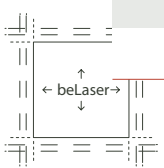
Lateral load through

Software connection

Further information

The component height depends on the lens.



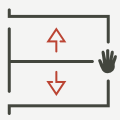


Labelling field
up to 220 mm x 220 mm

Other labeling field sizes are possible.

Workstation LMG

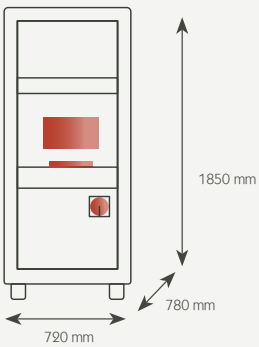
Texts, logos, vector data, QR- DataMatrix- and bar codes, variable data sets, image engravings

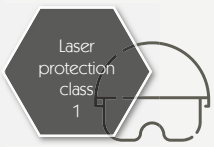


Manual lifting door

ca. 120 kg

ca. 500 mm x 500 mm



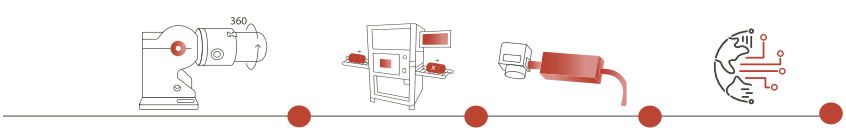


Technical data:

Laser marking system LMG	LMG-20	LMG-30	LMG-50	LMG-M20	LMG-M30
Laser type	Fibre laser				
Wavelength	1064 nm				
Nominal capacity	20 W	30 W	50 W	20 W	30 W
Pulse rate	1-400 kHz	1-400 kHZ	1-400 kHz	1-4000 kHz	1-4000 kHZ
Pulse width	200 ns	200 ns	200 ns	1-350 ns	1-350 ns
Pulse modulation	No	No	No	Yes	Yes
Laser protection class DIN EN 60825	1				
Cooling system	Air cooling				
Operating temperature	10-40 °C				
Power connection	230 V				
Power consumption	300 W	300 W	350 W	300 W	300 W

Technical data for Green-, UV- and CO2 Lasers differ.

Add-ons



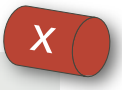
Rotation unit

Lateral load through

„Marking on the fly“

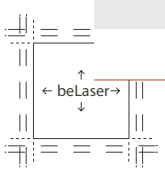
Software connection

The component height depends on the lens.



Labelling field

up to 220 mm x 220 mm

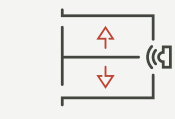


Other labeling field sizes are possible.

Further information

Individual Workstation

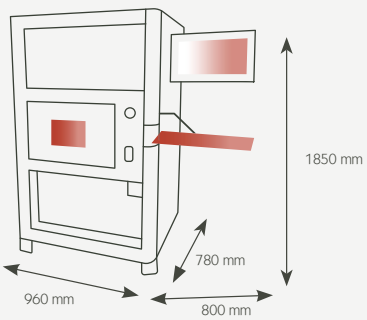
Texts, logos, vector data, QR- DataMatrix- and bar codes, variable data sets, image engravings

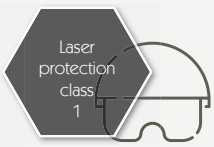


Automatic lifting door

150 kg

ca. 700 mm x 600 mm



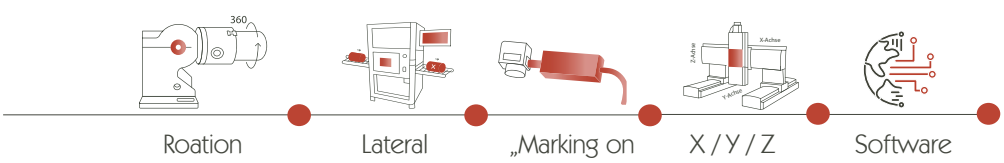


Technical data:

Laser marking system LMG-IND	LMG-IND 20	LMG-IND 30	LMG-IND 50	LMG-IND M20	LMG-IND M30
Laser type	Fibre laser				
Wavelength	1064 nm				
Nominal capacity	20 W	30 W	50 W	20 W	30 W
Pulse rate	1-400 kHz	1-400 kHZ	1-400 kHz	1-4000 kHz	1-4000 kHZ
Pulse width	200 ns	200 ns	200 ns	1-350 ns	1-350 ns
Pulse modulation	No	No	No	Yes	Yes
Laser protection class DIN EN 60825	1				
Cooling system	Air cooling				
Operating temperature	10-40 °C				
Power connection	230 V				
Power consumption	300 W	300 W	350 W	300 W	300 W

Technical data for Green-, UV- and CO2 Lasers differ.

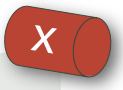
Add-ons

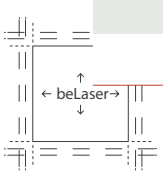


Roation unit | Lateral load through | „Marking on the fly“ | X / Y / Z portal | Software connection

Further information

The component height depends on the lens.





Labelling field

up to 600 mm x 600 mm

Other labeling field sizes are possible.

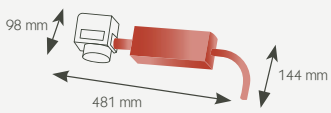
Integration laser

Texts, logos, vector data, QR- DataMatrix- and bar codes, variable data sets, image engravings

19“-rack-housing
425 mm x 425 mm x 217 mm

KG
Lightweight construction

Individual



Technical data:

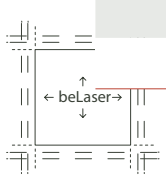
Laser marking system LMI	LMI-20	LMI-30	LMI-30	LMI-M30	LMI-M30
Laser type	Fibre laser				
Wavelength	1064 nm				
Nominal capacity	20 W	30 W	30 W	20 W	30 W
Pulse rate	1-400 kHz	1-400 kHZ	30-200 kHz	1-2000 kHz	1-2000 kHZ
Pulse width	200 ns	200 ns	100 ns	1-250 ns	1-250 ns
Pulse modulation	No	No	No	Yes	Yes
Laser protection class DIN EN 60825	4				
Cooling system	Air cooling				
Operating temperature	10-40 °C				
Power connection	230 V				
Power consumption	300 W				

Technical data for Green-, UV- and CO2 Lasers differ.

„Marking on the fly“ System

The LMI laser can also mark products while they are in motion. Our powerful hardware and software ensure accurate conversion and enable belt speeds of up to **500 m/min.**

Further information



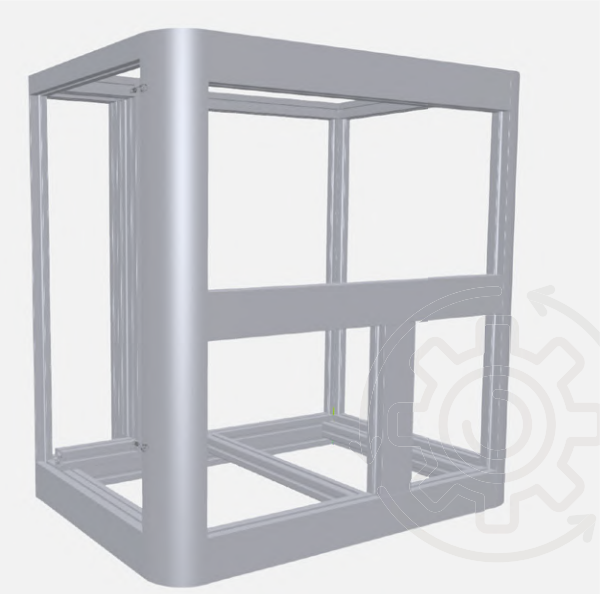
Labelling field	Component height
customised	X

The component height depends on the lens.

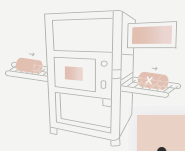

Lightning-fast und highly precise marking
directly in the production flow with
belt speeds up to **500m/ min.**
MHD 01.25
LGL Y2185

Customised laser system

Texts, logos, vector data, QR- DataMatrix- and bar codes, variable data sets, image engravings

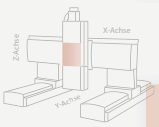


Precise & efficient



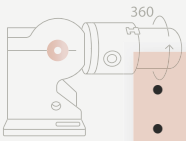
Lateral load through

- Simplified handling
- Side brush curtain for „marking on the fly“ system or long components
- Precise object detection



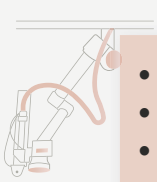
X / Y / Z portal

- Up to two additional axes X / Y for positioning
- Extremely high positioning capability
- Enalrferde labelling field



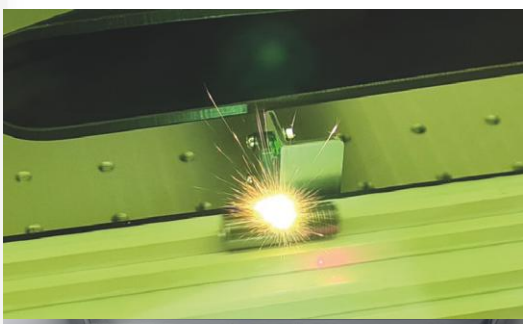
Rotation unit

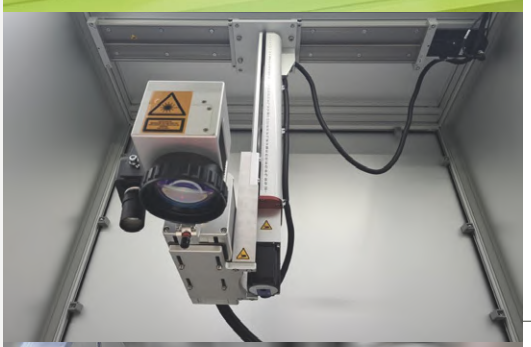
- Rotation device for 360° all-round marking
- Flexible clamping units
- Software controlled positioning



Roboter handling

- 4- to 6-axis robot
- The Laser head can be freely guided in the laser cabin
- Almost every angle of your product can be reached





Customised laser system

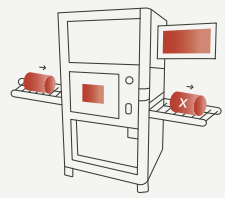
Texts, logos, vector data, QR- DataMatrix- and bar codes, variable data sets, image engravings

Maximum flexibility with side loading

Simplify your handling with the lateral through-loading - as a „marking on the fly“ system or for longer components.

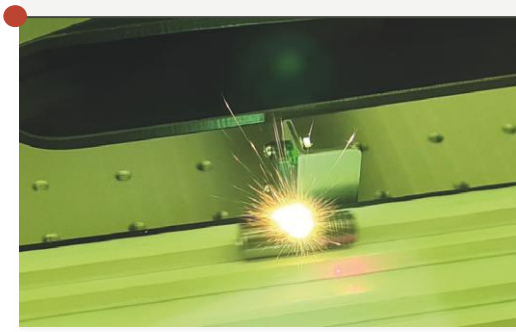
Loading takes place via the lateral insertion with brush curtain (possible on both sides) and can be optimally aligned with positioning aids.

- Cable ducts
- Profiles
- Tubes
- Hoses and cables
- and much more



Conveyor belt integration

- As a workstation or in existing production lines
- Marking during movement
- No production standstill necessary



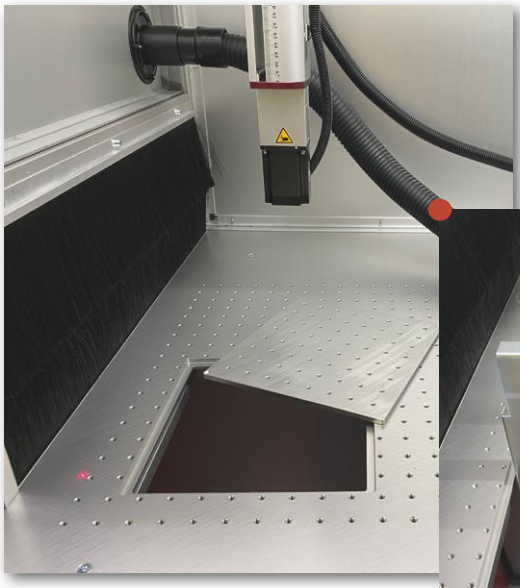
Edge labelling made easy

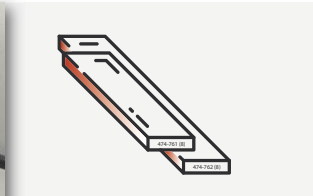
Even lateral thorugh-loading comes up against its limits with end-face labelling.

2 reasons are decisive here:

- Oversized component height
- Minimum distance to the laser lens too low

A **hidden slide-in tray** in the laser cabin can be opened if necessary and the longer components can be aligned.





Support & Service

Texts, logos, vector data, QR- DataMatrix- and bar codes, variable data sets, image engravings

Fine dust extraction

Some laser marking processes release fine dust particles in the laser cabin, which are at best extracted directly. Fine dust particles are invisible to the human eye and that is why they are so dangerous - a fine dust extraction system can provide a quick remedy.

Mobile fine dust extraction

- Efficient filter unit with 3 filter stages: Pre-filter, main filter, and activated carbon filter
- Very low noise level (<50 dB (A)) due to quiet continuous turbine
- 10-stage-control
- Optical and acoustic signal when the filter is saturated

More fine dust extraction systems are available.

We are here for you!

Benefit from our carefree package - for optimum labelling results at all times.

360 ° Laser Marking Package

- Configuration and analysis of requirements
- Practical training directly at the unit by our experienced technical staff
- Our service team is also available to answer your questions after the purchase
- Possible deployment of replacement units

MADE IN GERMANY

MADE FOR A LONG LIFETIME

Laser for rent | contract labellin

Texts, logos, vector data, QR- DataMatrix- and bar codes, variable data sets, image engravings

Laser for rent

Despite careful planning, bottlenecks can occur in production when it comes to labelling. To save you the costly purchase of a new marking system, you can also rent our high-performance marking lasers for a set time.

Laser for rent

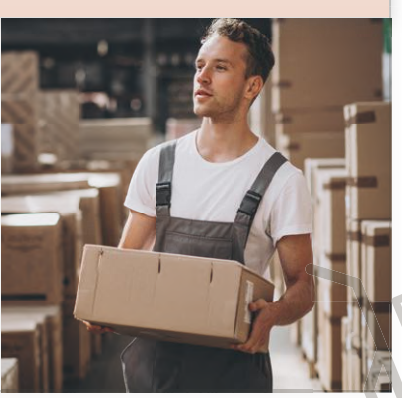
- Ideal for capacity bottlenecks or time limited orders
- Instruction by our qualified personnel directly at your site
- All devices comply with laser class 1
- Also bookable as an event highlight with individual branding

Contract labelling

A low-cost alternative to purchasing a laser marking system is contract labelling at our facilities.

Laser marking as a service

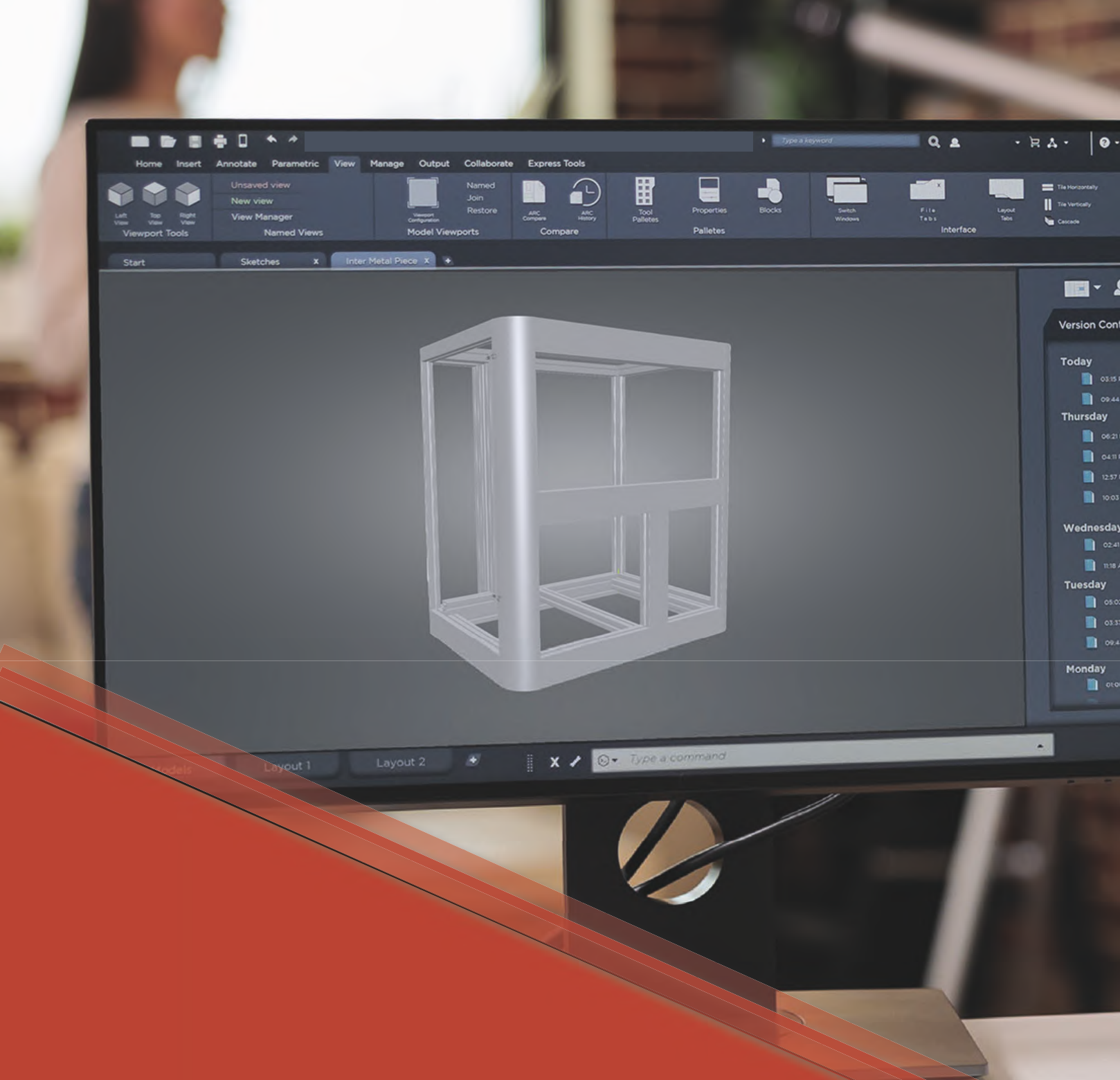
- For small or large batches
- High throughput rates
- Economical and cost-effective even for small series or prototypes
- Neutral shipping and direct delivery to your customers possible



Get your non-binding consultation now!

Please feel free to contact us for an initial consultation without obligation and free of charge.

Try it for free



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