

We make laser engraving  
mobile, flexible and safe



The clue's in the name – Mobil-Mark lasers come to your product, not the other way round!



## Mobile industrial laser – handy, compact and capable of marking anything

The devices from Mobil-Mark can be easily transported to the workpiece. But what really makes our products unique is our patented laser technology: users don't need to wear protective equipment, and no protective housing is required for the laser, either. The practical design and intuitive, self-explanatory operation also mean users require minimal training to use the device.

Mobil-Mark offers the full range of products, accessories and service that discerning companies expect from a premium manufacturer. Every individual customer request is both a challenge and a motivation for us – and we always find the ideal solution.

### > No need for protection

Laser marking systems from Mobil-Mark are laser protection class 1 certified for operation without protective housing or protective eyewear. Reduces the need for investments and saves time and space.

### > Flexible

Mobil-Mark lasers can mark nearly any material or surface without making contact. Practical all-rounder for regular use.

### > Compatible

The open interface architecture of the Mobil-Mark device software allows for digital networking with all conventional IT systems. Maximum integration into Industry 4.0.

### > Cost-effective

Long-lasting, German-made industrial quality, a comprehensive range of services and good value for money – Mobil-Mark lasers are an outstanding investment. Mobil-Mark pays off.

### > With castors

The laser comes to the workpiece, not the other way around. All laser systems from Mobil-Mark are mobile, compact and flexible. Ready to use at any time, with no hassle.

### > Automatable

For batch engraving or reproducible results, robotics technology can be used to automate the lasers from Mobil-Mark. Accessories and expertise – it's all at your fingertips!





Customers who  
enjoy the benefits  
of Mobil-Mark







With its high-quality engraving, the sharpness of its lettering, its intuitive, self-explanatory and user-friendly functionality, its mobile setup system and its fast production cycle, the Mobil-Mark Quasar 20 has fulfilled all our expectations completely.



Bernd Baas | Freudenberg Sealing Technologies



Looking for practical examples of laser engraving?  
Here are some of the customer projects we're most proud of:

[www.mobil-mark.de/freudenberg](http://www.mobil-mark.de/freudenberg)



### Wide range of marking processes

Carry out all the following processes with just one laser:

- › Tempering
- › Marking in a protective gas atmosphere
- › Black marking
- › Laser engraving
- › Coating with spray paint
- › Coating with PVD film
- › Engraving mirrors
- › Carbonisation
- › Deep engraving
- › Foaming



For more information, visit:  
[www.mobil-mark.de](http://www.mobil-mark.de)



Plastic? Wood? Stainless steel? –  
Mobil-Mark lasers can engrave almost anything

## Mobil-Mark's industrial laser marking devices

Mobil-Mark lasers can do what similar devices cannot: reliably label, customise and mark nearly any type of surface or any shape of object. The unique sealing unit on the laser head is key here – it can be ideally adapted to any profile. Naturally, engraving also works on a wide range of materials.

### › Ceramics

Laser marking is the perfect technique for use on ceramics. The Nova-f offers the precision you need for high-quality marking that won't damage your product.

### › Plastics

The Quasar is the perfect choice when it comes to making permanent, fast and abrasion-proof markings on all kinds of plastic items.

### › Wood

Whether you prefer your markings flat or deep-set, the Quasar can be used to clearly mark wooden objects with any surface geometry.

### › Glass

Glass surfaces of any kind can be marked with the Quasar marking laser. It also allows for multi-coloured markings.

### › Stainless steel

Laser engraving can mark workpieces made of all types of chromium-nickel steel alloys precisely, easily and in great detail.

### › Metal

Markings made on metal by Mobil-Mark lasers are guaranteed to be permanent, abrasion-resistant, non-fading, UV-resistant, food-safe and tamper-proof.

### › Powder-coated

When engraving powder-coated parts using a laser, the marking process foams the coating without removing it – thus ensuring that the protection it provides remains intact.

### › Rubber

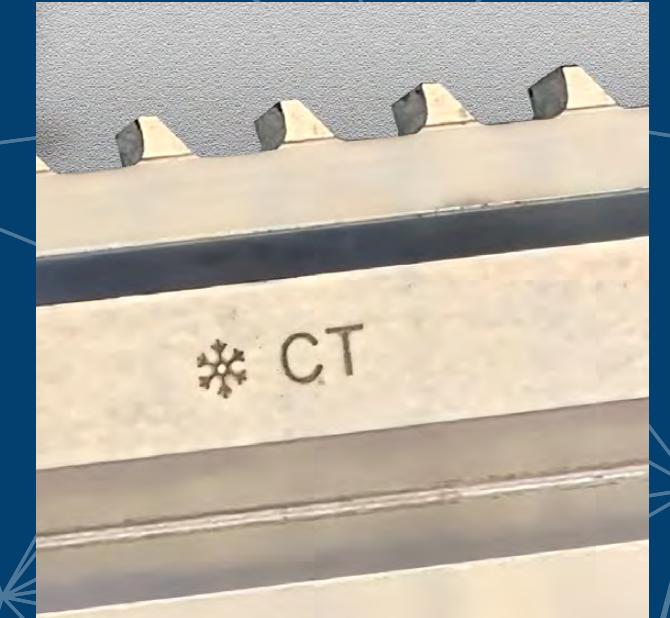
If you want to permanently mark rubber parts to prevent forgery, you can achieve this using the Quasar's deep engraving and foaming functions.





An outstanding product – user-friendly, excellent handling, and outstanding consultation from Mobil-Mark.

Rudolf Gebauer | MTU Aero Engines AG



Looking for practical examples of laser engraving?  
Here are some of the customer projects we're most proud of:

[www.mobil-mark.de/mtu](http://www.mobil-mark.de/mtu)





Use robots to automate your Mobil-Mark lasers and integrate them into your production processes

#### The right protection class for every application

Three factors are decisive in selecting the protection class of the Quasar: material/surface, engraving depth, and cycle time (duration of laser engraving).

### › 20 W

The 20-watt version is a great choice for small marking areas on delicate materials in applications where cycle time is not a priority.

### ›› 30 W

For larger marking areas on sturdy materials, we recommend the 30-watt version, providing cycle time is not a priority.

### ››› 60 W

Do you want to engrave large areas on materials with high rigidity on a short cycle? - Then the 60-watt version of our Quasar is the perfect choice for you.



## Mobil-Mark Quasar The unique universal laser marking system

#### Our laser for every application

The Quasar engraving laser is available in three performance classes and can be used to permanently mark metal, plastic and ceramics. The unique laser marking system from Mobil-Mark also makes temper marking, coating and deep engraving safe and easy.

#### A patented solution for highly efficient, long-lasting marking

The unique feature of the Quasar fibre laser is its patented laser protection. It allows for the direct laser marking of workpieces, without any additional protective equipment or protective housing. Unlike conventional industrial lasers, Quasar is designed to be mobile and can be transported on wheels. This makes it possible to mark large workpieces without the hassle of needing to move them; they can be marked wherever they are located. The laser comes to the workpiece, not the other way around.

#### Your benefits at a glance:

- › Ideal for your requirements
- › Patented protection system
- › Precise, elegant engraving
- › Flexibility thanks to mobility
- › Easy marking of any surface
- › Marking of large areas
- › Simple, self-explanatory operation
- › Can be used anywhere with a power connection
- › Individually cross-linkable

#### Quasar technical specifications

- › **Power output:**  
20/30/60 W
- › **Laser diode lifetime:**  
100,000 h
- › **Wavelength:**  
1,064 nm
- › **Pulse frequency range:**  
1 – 400 kHz (Q20/30), 1 – 4,000 kHz (Q60)
- › **Pulse width:**  
200 ns (Q20/30), 2 – 500 ns (Q60)
- › **Laser focus diameter:**  
Approx. 40 µm (lens f = 80 mm)
- › **Marking speed:**  
Max. 5,000 mm/s
- › **Weight:**  
40 kg



For more information, visit:  
[www.mobil-mark.de/quasar](http://www.mobil-mark.de/quasar)





## Mobil-Mark Nova-f The laser marking system designed especially for ceramics

### A powerful laser for the ceramics industry

The Nova-f marking laser from Mobil-Mark is designed especially for ceramics: the mobile system delivers permanent and abrasion-resistant marking on ceramic bathroom fittings, industrial porcelain and tableware. The reliable marking process ensures that the sensitive surface of the material is not damaged. This unique laser engraving machine was developed specifically for precise coating with spray paints and films and deep engraving in the ceramics industry.

### Mobile, practical, safe and durable

The Nova-f ceramic laser was developed in close cooperation with ceramics specialists, so it is perfectly adapted to the industry's requirements. The Nova-f is mobile – the compact device has wheels and can be easily transported to wherever it is needed. The laser can be used to mark any type of surface. Mobil-Mark offers precisely fitted sealing units for all individual shapes – the units can be changed in no time thanks to the simple Plug & Play system. The MOPA fibre laser has patented class 1 laser protection, so marking can be carried out without protective equipment such as protective housing or protective eyewear. The Nova-f is designed to be particularly durable and dust-resistant in order to remain consistently reliable in the harsh production conditions of the ceramics industry. The long service life of the laser diodes – 100,000 hours – ensures that the device is built to last.

### Your benefits at a glance:

- › Laser protection class 1
- › Precise, elegant engraving
- › Flexibility thanks to mobility
- › Easy marking of any surface
- › Unlimited job storage
- › Marking of large areas
- › Simple, self-explanatory operation
- › Can be used anywhere with a power connection
- › Individually cross-linkable

### Nova-f technical specifications

- › **Power output:**  
20 W – CW
- › **Laser diode lifetime:**  
100,000 hours
- › **Wavelength:**  
1,064 nm
- › **Laser focus diameter:**  
40 µm (lens f = 80 mm)
- › **Marking speed:**  
Max. 5,000 mm/s
- › **Weight:**  
40 kg



For more information, visit:  
[www.mobil-mark.de/nova-f](http://www.mobil-mark.de/nova-f)



## Accessories

### Practical solutions for precise, convenient laser engraving

A good laser engraving system, in combination with useful accessories, can perfect the process of laser-marking components while significantly lightening your workload. Mobil-Mark now offers a wide range of accessories that has been developed through close dialogue with our customers:

- › Sealing units
- › Film dispensers
- › Extraction and filter units
- › Protective gas marking
- › Vertical stand
- › Touch panel
- › Barcode reader
- › Laser protection housing
- › Mobile stand
- › Laser handling system
- › Laser head holder
- › Suction foot holder
- › Magnetic foot holder
- › Parallel gripping system
- › WiFi controller
- › Scissor lifting table with spindle
- › Spray coatings



To browse our full range of accessories, visit:  
[www.mobil-mark.de/zubehoer](http://www.mobil-mark.de/zubehoer)



## Sealing units as laser protection – for any surface geometry

### Light-proof, airtight sealing of the engraving area

The unique sealing units on the laser head ensure that the laser protection class 1 Quasar and Nova-f laser engraving machines from Mobil-Mark can be operated entirely without protective housing or protective gear. The flexible rubber lips seal the engraving area, making it light-proof and airtight. They reliably ensure that no laser radiation can escape the engraving area.

Mobil-Mark offers a suitable sealing unit for every shape to ensure that any surface can be marked or labelled. Consequently, the laser can engrave not only smooth, even surfaces, but also concave, convex or spherical ones. Uneven objects can also be laser-engraved, thanks to the rubber lip that adapts to the surface. The sealing units can be changed quickly and easily in a single step, to allow for marking of a range of different surfaces. And thanks to their clever design, the sealing units are highly durable and long-lasting.

In addition to its wide range of standard sealing units, Mobil-Mark also offers special models that can even be custom-built for any workpiece upon request.



Safe sealing –  
tailored to your individual workpiece



The performance meets our expectations, so does the handling – and it's so easy to operate that our introductory training course only takes a few hours.

Roy David | Sunnen AG



Looking for practical examples of laser engraving?  
Here are some of the customer projects we're most proud of:

[www.mobil-mark.de/sunnen](http://www.mobil-mark.de/sunnen)





Our motto: "There's nothing that can't be marked – even rubber or wood!"

## How investing in a Mobil-Mark laser system pays off

It's not just the cutting-edge technology and the outstanding flexibility they offer their users that make our laser marking systems stand out – they're cost-effective, too! We've put together a few tips on where you can optimise your processes and save money on logistics, consumption costs and production efficiency. And you don't have to take us at our word, either – these numbers extrapolated from the practical experience of our customers do all the talking for us.

### Why Mobil-Mark is a worthwhile investment for you:

- > Long service life

thanks to excellent German-made industrial quality.
- > Improved manufacturing efficiency

thanks to faster production compared to conventional marking methods.
- > Reduced logistics costs

thanks to mobile lasers, which allow workpieces to be marked wherever they are located.
- > No complex, expensive protective housing required
- > Elimination of previous consumption costs

for conventional marking processes – for example, stains, paints and wear-and-tear parts such as marking stamps are no longer required.
- > No additional investments in industrial safety required

as all relevant safety standards are already met.
- > Improved employee satisfaction

thanks to ergonomic device design and practical functions.

### Sample calculation from a satisfied Mobil-Mark customer

**Requirement:**  
Clear marking of internal broaches from tool shop

**Previous marking method:**  
Etching using stencils and acid

**New marking method:**  
Laser engraving with Quasar 60 from Mobil-Mark

**Marking costs per internal broach:**  
100 internal broaches per day on 220 working days

Expenditure	PreviouslyWith Mobil-Mark	
Amortisation	0.05 €	0.50 €
Consumable materials	0.75 €	0.04 €
Set-up costs	0.40 €	0.03 €
Personnel costs	5.00 €	0.20 €
Total	6.20 €	0.77 €

87% lower total costs



Working together  
to achieve your  
engraving goals:  
The all-round service  
from Mobil-Mark



# About us

## World-class laser marking systems – made in Germany

The devices from Mobil-Mark can be easily transported to the workpiece. But what really makes our products unique is our patented laser technology: users don't need to wear protective equipment, and no protective housing is required for the laser, either. The practical design and intuitive, self-explanatory operation also mean users require minimal training to use the device.

Mobil-Mark offers the full range of products, accessories and service that discerning companies expect from a premium manufacturer. Every individual customer request is both a challenge and a motivation for us – and we always find the ideal solution.



**2-year warranty**

Place your trust in premium-quality products.

**On-site training**

Tailored to meet your needs.

**Individual advice**

From experts.

**Maintenance and spare parts service**

Available upon request at any time.

## Industrial lasers of the highest quality, for the highest quality results

Based in Ulm, Germany, Mobil-Mark GmbH has been developing and producing customisable laser marking systems for industrial and commercial applications around the globe since 2003. Mobil-Mark is an independent sister company of DENIOS SE, a global specialist in industrial supplies based in Bad Oeynhausen, Germany. The company employs experienced engineers and technicians with comprehensive expertise in lasers, headed by managing director Manfred Klatt.

## Unparalleled technology with unbeatable benefits

What makes Mobil-Mark's marking systems unique is the fact that they are mobile, suitable for universal use, and can mark or engrave surfaces made of nearly any material. Additionally, no protective laser housing is required, and users do not need any personal protective equipment (PPE). Mobil-Mark lasers are the only marking lasers of their kind in the world.



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