

DESIGN MEETS
FUNCTION



Laser marking systems

Technology, Innovation and Environment





Laser

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Introduction

Company

Mark your territory ...



ACI Laser GmbH is an innovative company in the field of laser technology. Our long-term experience and permanent focus on market requirements has enabled us to become a leading manufacturer of laser marking systems worldwide.

With four different wavelengths, our portfolio covers all the major areas of marking applications. The striking streamlined design and compact structure, in which all components fit in one case, have for years been the trademark of ACI laser systems.

From product development via production through to sales, our employees at the head office in Nohra near Weimar, Thuringia and in our sales office in Chemnitz ensure the best possible quality for you. Additionally, our trading partners support sales and provide services for all of our products all over the world.

The basis of ACI Laser GmbH's success is our skilled and motivated team of employees. They are a key factor because they guarantee our customer's satisfaction for the future.

Development



In the development of laser marking systems, ACI focuses on:

- User-friendly and simple operation
- Environmentally compatible technologies
- Best design

ACI People & Science

Development

Our Products – Highest Standards

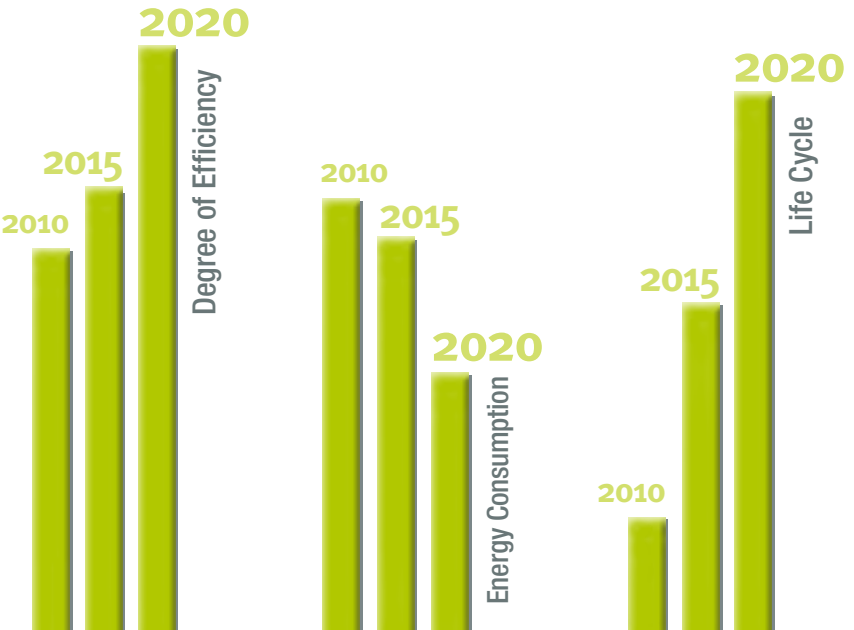
ACI's development team combines creativity and innovative know-how with a distinct sense for technology and appealing design.

Our development goals include:

- Development of energy efficient products
- On-going quality control
- Use of environmentally friendly substances and materials
- Highest degree of functional security:
Performance Level e (acc. DIN EN ISO 13849-1)



Quality and Environmental Goals:



Production

A smiling man with dark hair, wearing a white lab coat over a white shirt and a dark green tie, is leaning on a wooden railing. He is looking directly at the camera. The background consists of green vertical panels and wooden beams, suggesting a laboratory or industrial setting.

Efficient machine employment –
our guarantor for an environmentally
friendly production.

Production

Production

Focus on people and environment

ACI Laser GmbH's highest priority is the environmentally conscious use of machines and innovative technologies. This includes the manufacturing process as well as the laser marking systems themselves.

- Efficient production allows short delivery times
- Consistent quality standards thanks to a high degree of vertical integration
- Highly qualified employees



Sales



Sales

Sales



You can trust us

Based on our client's specifications, our highly qualified sales team develops customised concept solutions. Individual assistance guarantees highest client satisfaction.

- Competent, solution-oriented support by our distribution engineers
- Client visits and on-site product demonstrations
- In-house sample marking



Service



For us, service is not just a word – we are always there for you on a worldwide basis!

Service

Service

Fast expert support

ACI Laser GmbH puts an emphasis on high-quality service. Our experts provide guidance and support to our customers regarding questions about lasers, software and maintenance.

- Software and laser training either on your premises or at ACI
- Immediate response in event of malfunction
- Substitute system suppliable
- Remote problem diagnostics





Metal



Plastics



Ceramics



Coatings and Finishes



Glass



Wood



Leather



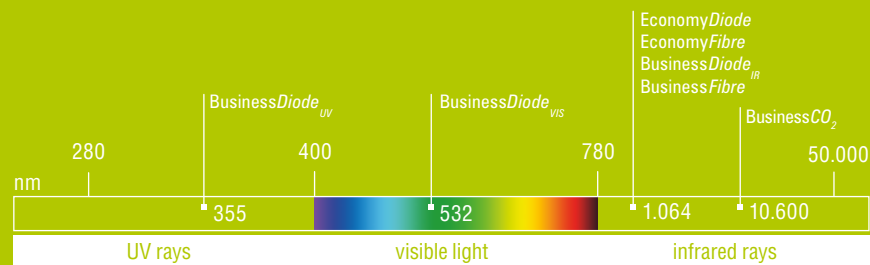
Labels and Laser Foils

Materials

Permanent and high-contrast marking

The lasers developed and produced by ACI Laser GmbH can be used to mark the following materials:

- Inorganic materials such as metal, plastics, foil, etc.
- Organic materials such as wood, paper, leather, etc.



Application Matrix:

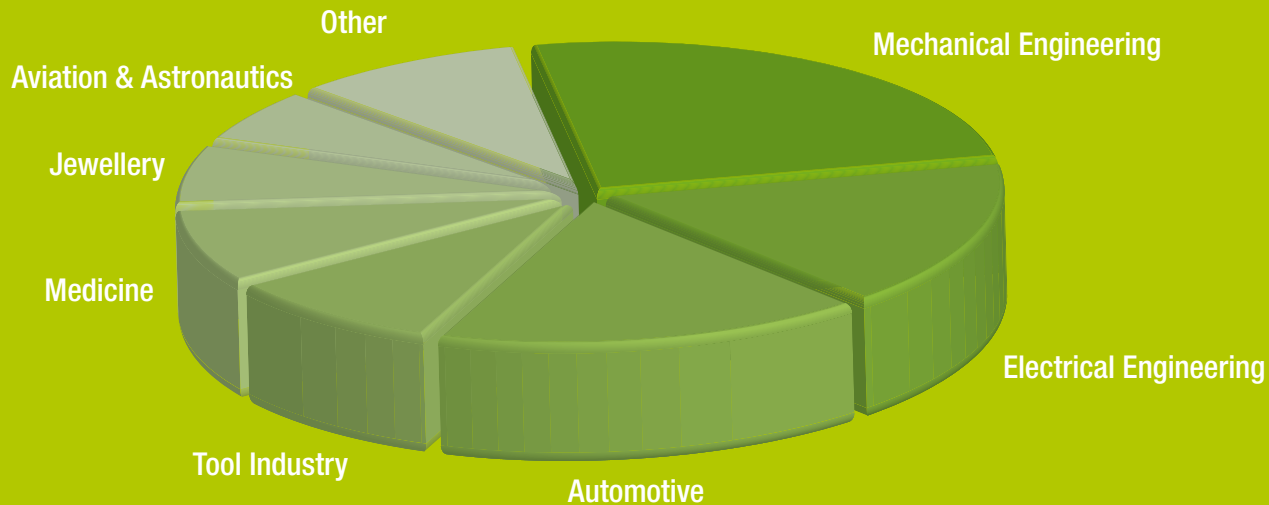
Material	Economy Diode	Economy Fibre	Business Diode _{IR}	Business Diode _{vis}	Business Diode _{UV}	Business Fibre	Business CO ₂
Metals							
Black annealing	○	○	●	○	-	●	-
Engraving	○	●	○	○	○	●	-
Abrasion	●	●	●	●	○	●	○
Plastics							
Foaming*	●	○	●	●	●	○	-
Carbonization*	●	○	●	●	●	○	-
Engraving*	-	-	-	-	-	-	●
Ceramics	-	-	○	○	○	○	○
Wood, paper and leather	-	-	-	-	○	-	●
Glass	-	-	-	○	●	-	●
Laser foil							
Abrasion	●	●	●	●	●	●	○
Colouring	●	○	●	●	●	●	-

● very good ○ good - unsuitable

* Limitations may occur depending on the composition of the plastic.

Applicability

Fields of Application



Customized marking

A wide range of different laser technologies offers a solution to almost every requirement. The most appropriate choice for a client results from a consideration of the following criteria:

- Material characteristics
- Cycle time requirements
- Budget



Material	Plastics
Branch	Medicine



Material	Metal
Branch	Tool Industry



Material	Plastics
Branch	Automotive



Material	Metal
Branch	Electrical Engineering



Material	Plastics
Branch	Sanitary Engineering



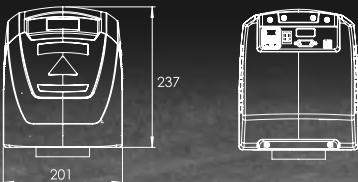
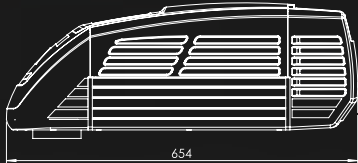
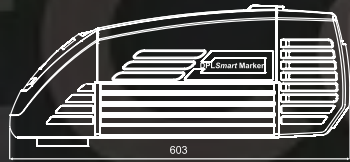
Material	Metal
Branch	Electrical Engineering

Economy *Diode*
Economy *Fibre*
Business *Diode*
Business *Fibre*
Business *CO₂*



OEM-Laser Markers

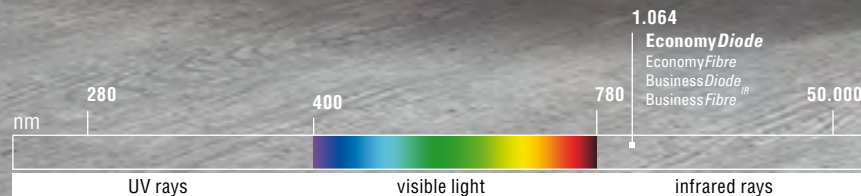




DPL Smart Marker 4 W/10 W



- Cost-effective entry into laser material marking thanks to low investment costs
- Compact and space saving lasers for individual parts and small production volumes
- Low operating costs
- Air-cooled



Economy Diode

DPL Smart Marker I
4W



DPL Smart Marker II
10W



Technical Data

	Smart I	Smart II
Laser type	Nd:YAG	
Wave length	1064 nm	
Pumping principle	Longitudinal	
Laser power	4 W	10 W
Beam mode M ²	Typ. 1.5	
Pulse length	15–100 ns	
Pulse repetition rate	1–100 kHz	1–80 kHz
Laser class	4, optional 1	
Size of marking area [mm]	optional 60 x 60/110 x 110/180 x 180	
Power consumption	max. 150 W	
Weight	15 kg	16 kg
Dimensions (l x w x h) [mm]	603 x 201 x 235	654 x 201 x 237
Connected load	100–240 VAC/16 A/50–60 Hz	
Interfaces	USB 2.0, PLC-Interface	
Functional security acc. to DIN EN ISO 13849-1	PLe	

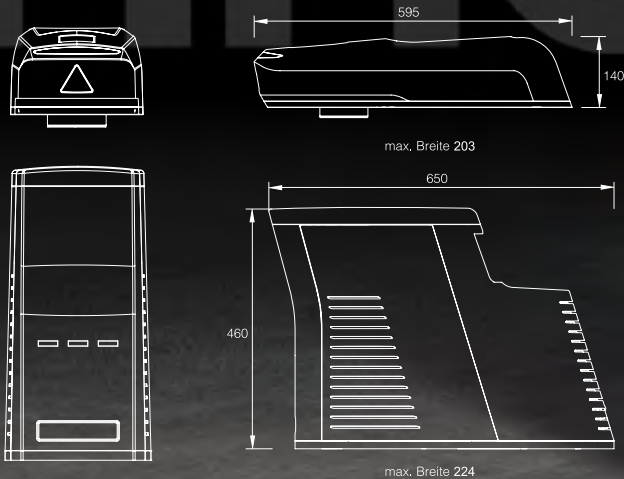
Material	Economy Diode
Metals	
Black annealing	○
Engraving	○
Abrasion	●
Plastics	
Foaming*	●
Carbonization*	●
Engraving	–
Ceramics	–
Wood, paper and leather	–
Glass	–
Laser foil	
Abrasion	●
Colouring	●

● very good ○ good – unsuitable

* Limitations may occur depending on the composition of the plastics.

DFL Ventus Marker

Ventus₂: 20 W/30 W/50 W/70 W



- Cost-effective entry into material marking with fibre laser technology
- Low investment and operating costs
- Main area of use is in the quick marking of metals




Economy Fibre

DFL Ventus Marker



Technical Data

	Ventus _z
Beam quality	1,4 ≤ M ² ≤ 1,6 
Laser power	20 W, 30 W, 50 W, 70 W
Laser type	Yb:fibre
Wave length	1064 nm ± 5 nm
Peak power	up to 10 kW
Pulse energy ¹	up to 1 mJ
Number of adjustable pulse forms/-lengths ¹	up to 2
Pulse repetition rate ¹	1 kHz–1 MHz
Transport fibre	3 m
Laser class	4, optional 1
Size of marking area [mm]	optional 60 x 60/110 x 110/180 x 180
Power consumption ¹	max. 600 W
Connected load	85–240 VAC/10 A/50–60 Hz
Weight ²	8 kg/27 kg
Dimensions ² (l x w x h) [mm]	595 x 203 x 140/650 x 224 x 460
Interfaces	USB 2.0, PLC-Interface
Functional security acc. to DIN EN ISO 13849-1	PLe

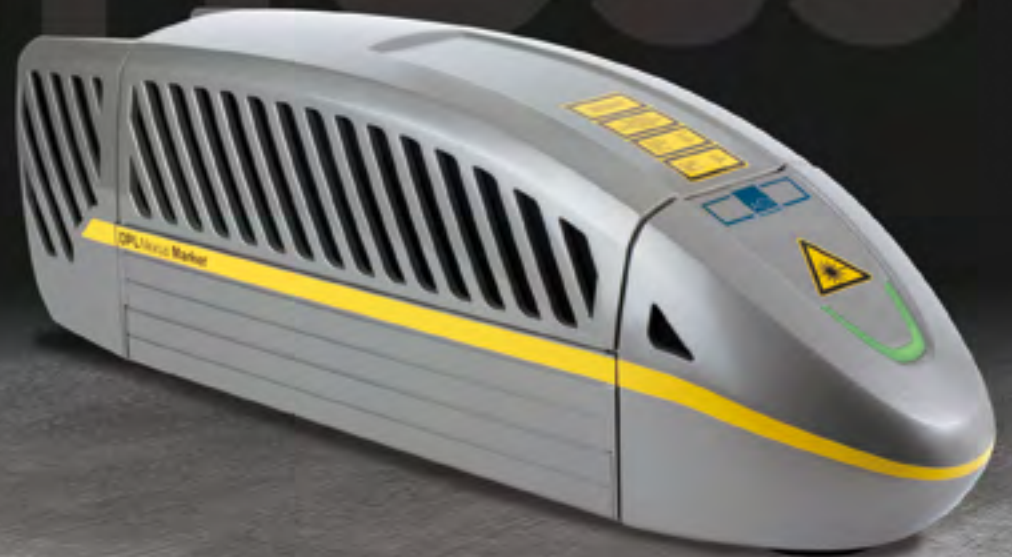
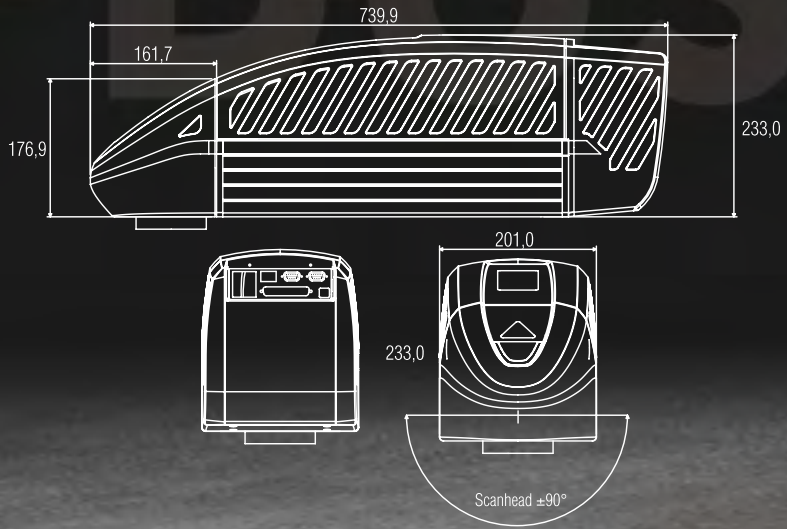
Material	Economy Fibre
Metals	
Black annealing	○
Engraving	●
Abrasion	●
Plastics	
Foaming*	○
Carbonization*	○
Engraving	–
Ceramics	–
Wood, paper and leather	–
Glass	–
Laser foil	
Abrasion	●
Colouring	○

● very good ○ good – unsuitable

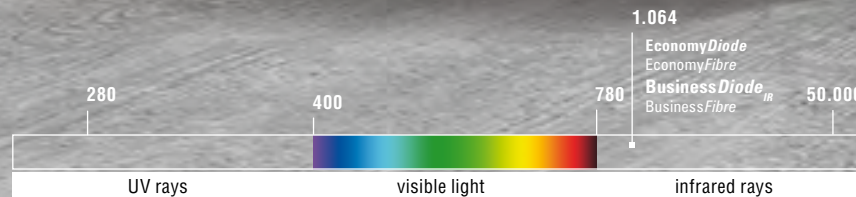
* Limitations may occur depending on the composition of the plastics.

¹ Dependant on the laser power, ² Specifications refer to: laser head/power supply

DPL Nexus Marker 12 W



- For use in single or multi-shift operation
- Easy to integrate into production lines
- Ideal for time sensitive applications and large production volumes
- Stable operation thanks to thermoelectric air cooling
- Minimal operation costs thanks to a high degree of efficiency



Business Diode_{IR}

DPL Genesis Marker 8W



DPL Nexus Marker 12W



DPL Fortis Marker 16W



Technical Data

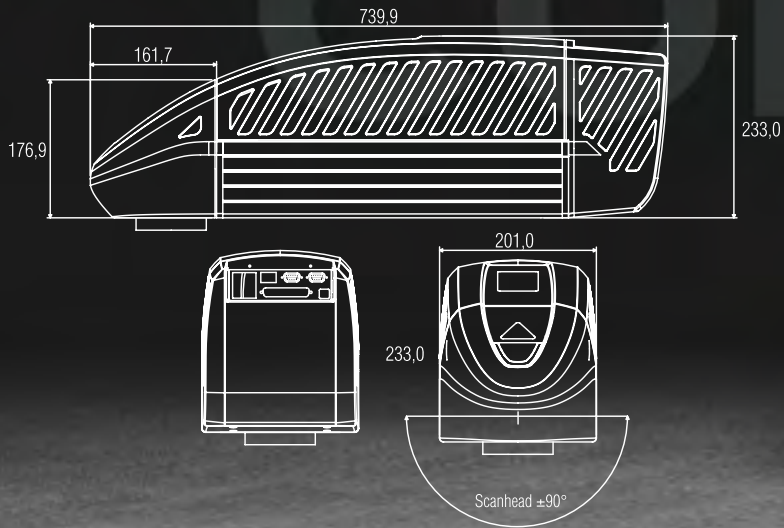
	Genesis	Nexus	Fortis
Laser type		Nd:YAG	
Wave length		1064 nm	
Pumping principle		Longitudinal	
Laser power	8 W	12 W	16 W
Beam mode M ²	Typ. < 1.5	Typ. < 2	Typ. < 2.5
Pulse length		15–100 ns	
Pulse repetition rate		1–100 kHz	
Laser class		4, optional 1	
Size of marking area [mm]		optional 60 x 60/110 x 110/180 x 180	
Power consumption	max. 200 W	max. 250 W	max. 300 W
Weight		20 kg	
Dimensions (l x w x h) [mm]		740 x 201 x 233	
Connected load		100–240 VAC/16 A/50–60 Hz	
Interfaces		USB 2.0, PLC-Interface	
Functional security acc. to DIN EN ISO 13849-1		PLe	

Material	Business Diode _{IR}
Metals	
Black annealing	●
Engraving	○
Abrasion	●
Plastics	
Foaming*	●
Carbonization*	●
Engraving	–
Ceramics	○
Wood, paper and leather	–
Glass	–
Laser foil	
Abrasion	●
Colouring	●

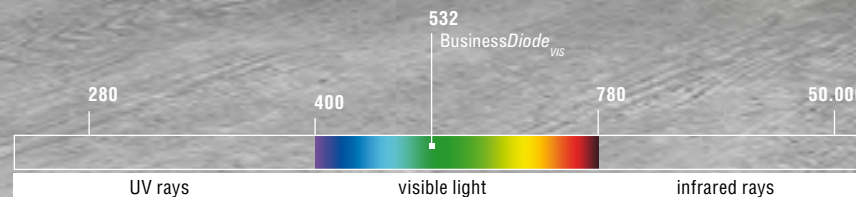
● very good ○ good – unsuitable

* Limitations may occur depending on the composition of the plastics.

DPL Nobilis Marker 5 W



- Ideal for high-contrast markings on plastics
- Integration of all components required for operation in one single housing
- Fast thermoelectric air cooled marking laser with high precision
- Easy integration into existing production lines thanks to its small dimensions



DPL Nobilis Marker

Business Diode_{vis}



Technical Data

	Nobilis
Laser type	Nd:YVO4
Wave length	532 nm
Laser power	5 W
Beam mode M ²	M ² < 1,2
Peak power	up to 6 kW
Pulse energy	up to 50 µJ
Pulse length	8–25 ns
Pulse repetition rate	60–300 kHz
Laser class	4, optional 1
Size of marking area [mm]	optional 50 x 50/100 x 100/160 x 160
Power consumption	max. 220 W
Weight	20 kg
Dimensions (l x w x h) [mm]	740 x 201 x 233
Connected load	100–240 VAC/16 A/50–60 Hz
Interfaces	USB 2.0, PLC-Interface
Functional security acc. to DIN EN ISO 13849-1	PLe

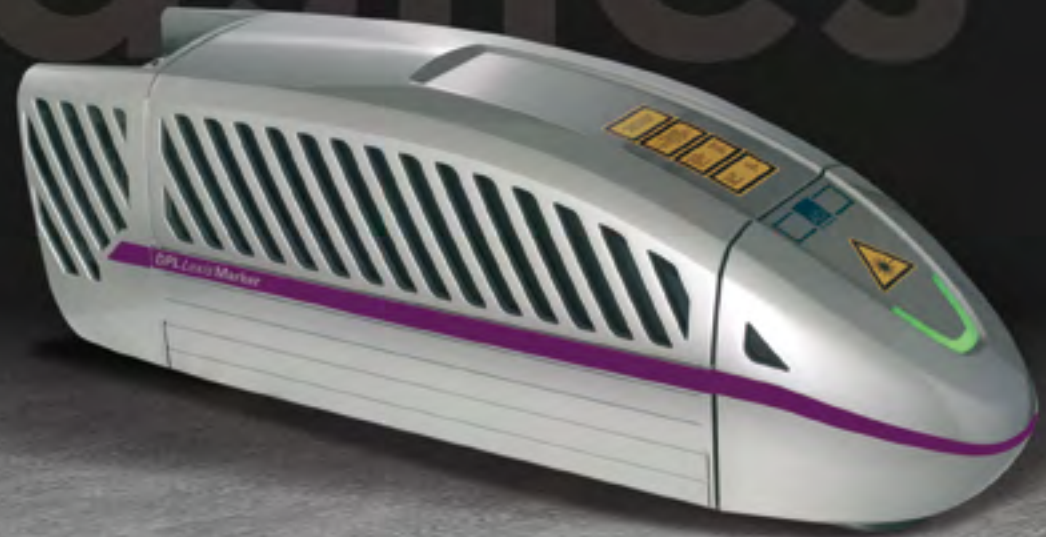
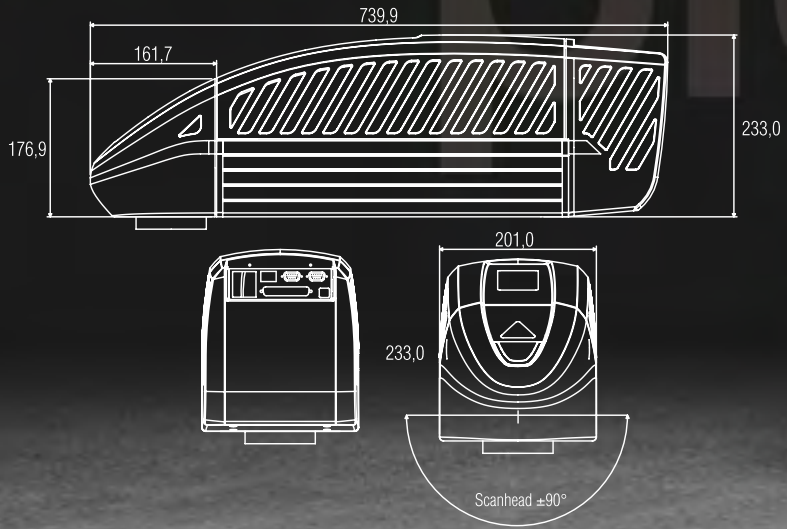
Material	Business Diode _{vis}
Metals	
Black annealing	○
Engraving	○
Abrasion	●
Plastics	
Foaming*	●
Carbonization*	●
Engraving	–
Ceramics	○
Wood, paper and leather	–
Glass	–
Laser foil	
Abrasion	●
Colouring	●

● very good ○ good – unsuitable

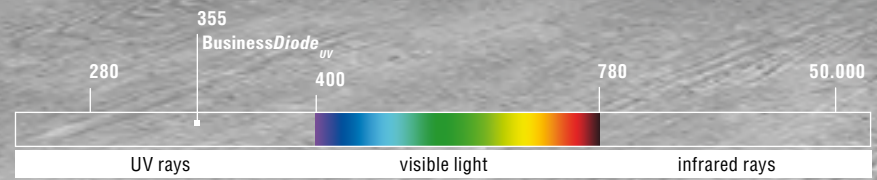
* Limitations may occur depending on the composition of the plastics.

ultraviolet bioplastics

DPL Lexis Marker 2W



- Main area of use is in the high-contrast marking of plastics and glass
- Particularly suitable for markings with a low heat input
- Extremely fine and precise markings possible
- Stable operation thanks to thermoelectric air cooling



DPL Lexis Marker

Business Diode_{UV}



Technical Data

	Lexis
Laser type	Nd:YVO4
Wave length	355 nm
Laser power	2 W
Beam mode M ²	M ² < 1,2
Peak power	up to 1,4 kW
Pulse energy	up to 15 µJ
Pulse length	10–15 ns
Pulse repetition rate	40–200 kHz
Laser class	4, optional 1
Size of marking area [mm]	optional 60 x 60/95 x 95/140 x 140
Power consumption	max. 220 W
Weight	20 kg
Dimensions (l x w x h) [mm]	740 x 201 x 233
Connected load	100–240 VAC/16 A/50–60 Hz
Interfaces	USB 2.0, PLC-Interface
Functional security acc. to DIN EN ISO 13849-1	PLe

Material	Business Diode _{UV}
Metals	
Black annealing	–
Engraving	○
Abrasion	○
Plastics	
Foaming*	●
Carbonization*	●
Engraving	–
Ceramics	○
Wood, paper and leather	○
Glass	●
Laser foil	
Abrasion	●
Colouring	●

● very good ○ good – unsuitable

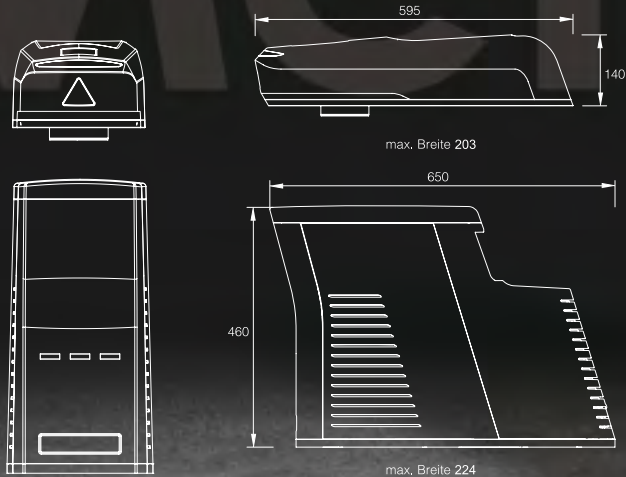
* Limitations may occur depending on the composition of the plastics.

DFL Ventus Marker

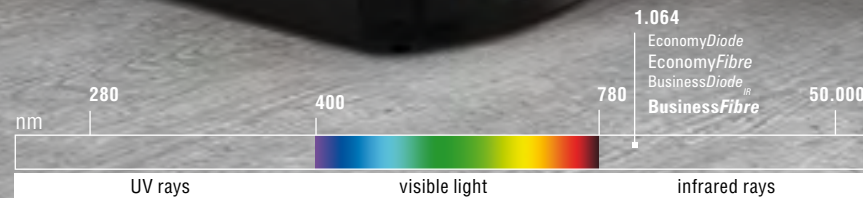
Ventus_S: 30 W

Ventus_Z: 20 W/50 W/70 W

Ventus_H: 40 W/70 W



- Ideal for markings on metal
- For advanced applications with variable pulse width
- Integration of all optical, electronic and mechanical components in a single housing
- Excellent marking results due to superior beam quality



DFL Ventus Marker




Business Fibre

Technical Data

Ventus_S

Ventus_Z

Ventus_H

Beam quality	$M^2 \leq 1,3$	$1,4 \leq M^2 \leq 1,6$	$2,6 \leq M^2 \leq 3,7$
			
Products	30 W	20 W, 50 W, 70 W	40 W, 70 W
Laser type	Yb:fibre		
Wave length	1064 nm ± 5 nm		
Peak power ¹	9 kW	up to 12 kW	up to 20 kW
Pulse energy ¹	0,70 mJ	up to 1,00 mJ	up to 1,3 mJ
Number of adjustable pulse forms/-lengths ¹	25	up to 40	25
Pulse repetition rate	1 kHz–1 MHz		
Transport fibre	2 m	3 m	3 m
Laser class	4, optional 1		
Size of marking area [mm]	optional 60 x 60/110 x 110/180 x 180		
Power consumption	max. 350 W	max. 600 W	max. 600 W
Weight ²	8 kg/27 kg		
Dimensions ² (l x w x h) [mm]	595 x 203 x 140/650 x 224 x 460		
Connected load	85–240 VAC/16 A/50–60 Hz		
Interfaces	USB 2.0, PLC-Interface		
Functional security acc. to DIN EN ISO 13849-1	PLe		



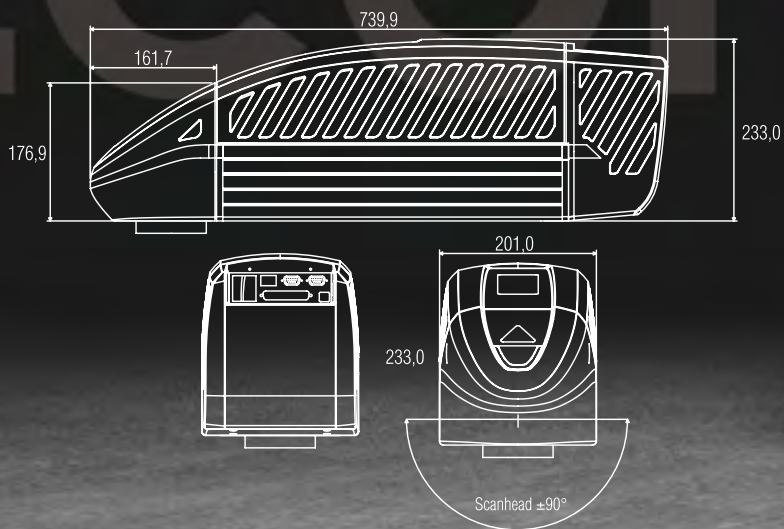
Material	Business Fibre
Metals	
Black annealing	●
Engraving	●
Abrasion	●
Plastics	
Foaming*	○
Carbonization*	○
Engraving	-
Ceramics	○
Wood, paper and leather	-
Glass	-
Laser foil	
Abrasion	●
Colouring	●

● very good ○ good - unsuitable

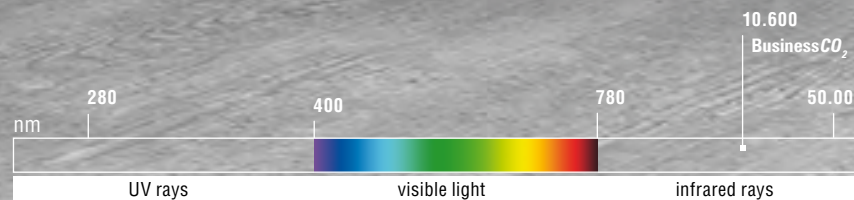
* Limitations may occur depending on the composition of the plastics.

¹ Dependant on the laser power, ² Specifications refer to: laser head/power supply

CO Two Marker 30 W



- Perfect tool for marking circuit boards, as well as wood, glass or leather
- Minimal maintenance and operating costs
- Easy integration into existing production lines thanks to its compact design
- Thermoelectric air cooled marking laser



CO Two Marker

Business CO₂



Technical Data

	CO Two Marker
Laser type	CO ₂ , sealed off
Wave length	10,600 nm
Laser power	20 W, 30 W
Beam mode M ²	Typ. 1.2
Laser class	4, optional 1
Size of marking area [mm]	optional 50 x 50/90 x 90/150 x 150
Connected load	100–240 VAC/16 A/50–60 Hz
Power consumption	max. 350 W
Weight	20 kg
Dimensions (l x w x h) [mm]	740 x 201 x 233
Interfaces	USB 2.0, PLC-Interface
Functional security acc. to DIN EN ISO 13849-1	PLe

Material	Business CO ₂
Metals	
Black annealing	–
Engraving	–
Abrasion	○
Plastics	
Foaming	–
Carbonization	–
Engraving*	●
Ceramics	○
Wood, paper and leather	●
Glass	●
Laser foil	
Abrasion	○
Colouring	–

● very good ○ good – unsuitable

* Limitations may occur depending on the composition of the plastics.

Workstation *CLASSIC*
Workstation *COMFORT*
Workstation *PROFESSIONAL*
Foil *STAR*



Workstations



Workstation CLASSIC



Technical Data

Dimensions (l x w x h) [mm]	760 x 450 x 625
Clamping area (l x w) [mm]	T-Slot Plate 340 x 360
z-axis	100 mm travel distance
Laser class	1
Rotary axis	360° (optional)

- Manual workstation with automatic door opening
- Integrated motor-driven z-axis
- Optional rotary axis integration for peripheral marking
- Suction and filter system connection and control possible

Combination Options

Economy Diode	•
Economy Fibre	•
Business Diode	•
Business Fibre	•
Business CO₂	•

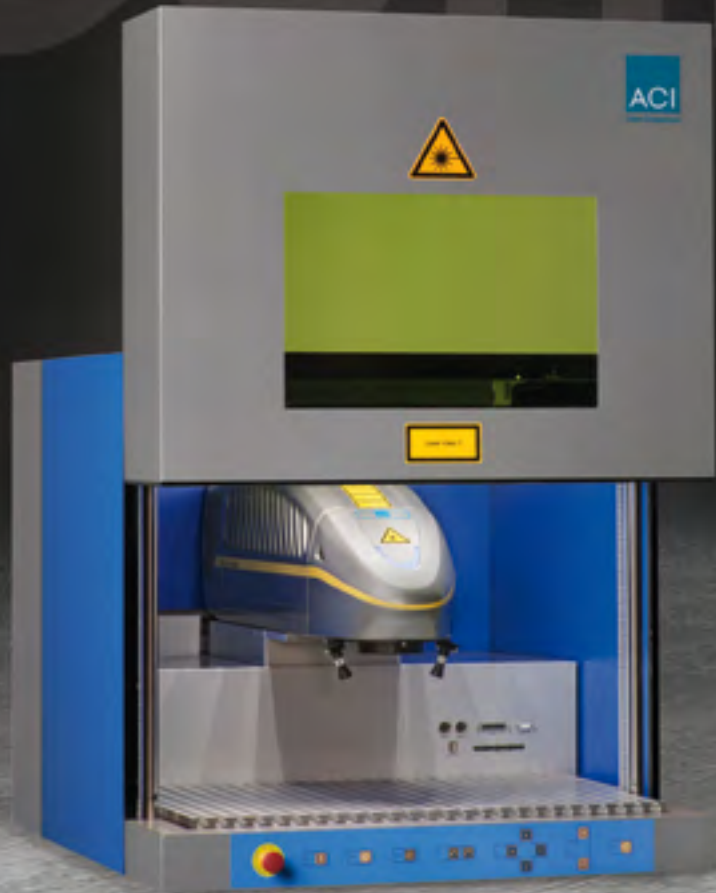
Features

Laser class 1	•
USB 2.0/RS 232	• / -
Focus-finder	•
Motor-driven x-axis	-
Motor-driven y-axis	-
Motor-driven z-axis	•
Rotary axis	⊙
Integrated control panel	•
Large laser protection window	•
Electric door	•
Foil management	-

- available
- not available
- ⊙ optional

Workstation
CLASSIC

Workstation COMFORT



Technical Data

Dimensions (l x w x h) [mm]	900 x 760 x 690
Clamping area (l x w) [mm]	T-Slot Plate 600 x 400
z-axis	140 mm travel distance
Laser class	1
Rotary axis	360° (optional)

- Manual workstation with automatic safety door
- Integrated electrical z-axis
- Optional rotary axis for peripheral marking
- Suction and filter system connection and control possible

Combination Options

Economy Diode	•
Economy Fibre	•
Business Diode	•
Business Fibre	•
Business CO₂	•

Features

Laser class 1	•
USB 2.0/RS 232	• / -
Focus finder	•
Motor-driven x-axis	-
Motor-driven y-axis	-
Motor-driven z-axis	•
Rotary axis	⊙
Integrated control panel	•
Large laser protection window	•
Electric door	•
Foil management	-

• available
 - not available
 ⊙ optional

Workstation COMFORT



Workstation *PROFESSIONAL*

Technical Data

Dimensions (l x w x h) [mm]	1050 x 760 x 1050
Clamping area (l x w) [mm]	T-Slot Plate 600 x 600
z-axis	440 mm travel distance
y-axis	240 mm travel distance (optional)
Laser class	1
Rotary axis	360° (optional)

- Manual workstation with automatic safety door
- Integrated electrical x-axis
- Optional y-axis for expansion of the marking area
- Optional Rotary axis for peripheral marking
- Suction and filter system connection and control possible

Combination Options

Economy Diode	•
Economy Fibre	•
Business Diode	•
Business Fibre	•
Business CO₂	•

Features

Laser class 1	•
USB 2.0/RS 232	• / -
Focus finder	•
Motor-driven x-axis	•
Motor-driven y-axis	⊙
Motor-driven z-axis	•
Rotary axis	⊙
Integrated control panel	•
Integrated rotary table 2x 180°	⊙
Large laser protection window	•
Electric door	•
Foil management	⊙

- available
- not available
- ⊙ optional

Workstation
PROFESSIONAL

Foil STAR



Technical Data

Dimensions (l x w x h) [mm]	700 x 300 x 340
Maximum roll diameter	300 mm
Maximum label width	120 mm
Feed rate	100 mm/sec
Laser class	1

- Permanent and non-abrasive laser foil marking
- Individual design of custom label sizes by laser cutting
- Resolution: up to 725 dpi
- Roll diameter: 300 mm
- Integrated cutting blade

Combination Options	Foil STAR
Economy Diode	●
Economy Fibre	●
Business Diode	●
Business Fibre	●
Business CO₂	-
Features	
Laser class 1	●
USB 2.0/RS 232	- / ●
Continuous operation mode	●
Label mode	●
Exhaust ventilation guidance	●
Foil end detection sensor	●
Cutting blade	●
External rewriter	⊙
Forward and return transport	●
<small>● available - not available ⊙ optional</small>	

Options



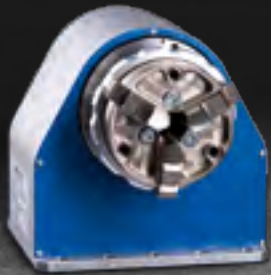
Options and accessories

For the purpose of expanding the spectrum of applications, a wide range of laser accessories are available for ACI Laser marking systems. These accessory options include, for example, the rotation axis for marking cylindrical components. This enables 360° marking on the circumference of the workpiece to be processed. Here the rotation axis is controlled by the marking software, which synchronises the laser and axis. Other features of this software include the segmented labelling of texts and logos as well as the application of scales on the circumference. In addition to the rotation axis, the scope of these system applications is also expanded by various laser extractions, diverse linear axes as well as the „Vision Pack“ camera module.

Alongside the complete solutions, the use of lasers as OEM laser markers is also possible. This becomes necessary in the case of integration into an existing production process. ACI Laser provides an extensive range of accessories for self-integration processes. These include various types of laser protection glass as well as software interfaces specifically developed for communication with higher-level systems. The close contact between the users and ACI sales engineers ensures that the optimal solution on an individual basis will be found.

Axis solutions

In conjunction with a standard objective (F-Theta 163) and the **Workstation PROFESSIONAL**, the y-axis enlarges the marking field to 350 mm in the y-direction (refer to page 33). For marking rotationally symmetrical workpieces, ACI Laser provides a rotational axis for integration into the ACI complete solutions. Texts, logos and graphics are automatically suitably segmented by the software.



Laser protection

For efficient laser protection of viewable areas with, for example, integrated applications, ACI Laser offers laser protection windows specially customised for the relevant systems and wavelengths. These allow the user to view the marking area without exposure to hazardous laser radiation. Only CE certified protective windows are used for this purpose.



Laser extraction

Since the gases, dusts and other reaction products produced in the laser marking process can be toxic, ACI Laser offers three different standard extraction and filter systems for normal marking applications: the compact, standard and low-noise models.



Vision Systems



AOI (Automatic Object Identification) Image Processing and Evaluation

AOI is used for the fully automatic detection, identification and measurement of objects, texts and codes with complex geometries. The combination of object detection and laser marking offers an excellent opportunity for quality and process assurance, and for increasing the efficiency of the process control of many applications. **AOI** captures and analyzes the marked area online via a camera system. The laser marking is directed at the object fully automatically, and afterwards can be checked by the labelling. Another field of application for **AOI** is reading 1D and 2D codes and optical character recognition (OCR). The **AOI** high-end camera system is designed to meet customer-specific technical requirements, and to be suitable for the geometric properties of the object to be labelled.

CPM (Capturing, Positioning, Marking)

Camera for capturing a live or single image of the marking area

CPM is used for positioning markings on components, workpieces and objects with the aid of a camera. In the standard version, the camera lenses are selected to capture the entire marking area. In the Ventus series version with the fibre lasers, the camera is integrated in the scan head. In Diode series lasers and the **COTwoMarker**, the camera is mounted on the outside of the head. The distortion caused by perspective in the live image captured by the camera is corrected. The single image is used for positioning the layout in the graphic area of **Magic Mark V3**.

For applications requiring higher resolution, **CPM** enables even smaller areas of the marking field to be captured with high resolution by selecting suitable lenses, and processed.

Typical parameters of CPM

Design	Standard			User-defined
	f=100	f=163	f=253	User-defined
	Optical marking system			
Typ. field of view [mm]	60 x 60	110 x 110	180 x 180	> 20 x 20
Resolution [$\mu\text{m}/\text{pixel}$]	65	125	200	> 22
Features				
Usage with MagicMark V3	✓	✓	✓	✓
Object positioning (digital)	✓	✓	✓	✓
Zoom (digital)	✓	✓	✓	✓

Marking Software



Magic Mark V3

The factors to consider when deciding on a laser marking investment are how user-friendly the marking software is, what is included in the scope of delivery and how innovative the laser system is. In the area of laser marking software, **MagicMark V3** sets new standards. The simple operation of the software's graphical interface allows fast creation of complex marking even for inexperienced PC-users.

In addition to its extensive graphic functionality, the software offers a Visual Basic programming module, to facilitate integration into production lines. Another highlight is the option to control the marking software through external .NET programs. Even the most complicated data communications can be easily achieved by using this method. In this way, additional investment costs in client-specific software solutions can be avoided.

MagicMark V3 is a Windows (WIN 7 32 bit/64 bit recommended) based marking software that communicates with the laser via a high-speed USB 2.0 interface. Thus, laser system control ensues via standard Windows-PCs.

Laser Communication

- USB 2.0
- 480 Mbit/s

Laser Functions

- Parameter control
- Shutter operation
- Laser start/stop function
- Function monitoring

Control Functions

- Motor-driven axes
(x, y, z rotary axis) supported

Communication Interfaces

- Digital Laser I/O's
- ASCII/XML file
- Profibus Communication
(via Siemens OPC Server)
- TCP/IP Communication
- Serial Communication RS-232

Program Functions

- Integration of graphic files
(HPGL, DWG, DXF, BMP, JPG, GIF)
- Extensive barcode library
- Data-Matrix-Code
- TrueType fonts
- Single line fonts
- Complex sequential control system
including database and network access
using integrated scripting language
(BASIC)
- Control of marking software through
external .NET programs possible

Program Functions

- Text and graphic rotation
- Stretching/compressing of text
and graphics
- Circular marking
- Alignment of marking elements
- Free selectable font size
- Serial numbers
- Processing of variables and
subroutines
- Object-oriented programming
- Filing of complete processes
and parameters in special menus
or data bases
- Extensive help functions
- etc.



Innovations from Germany, worldwide.

ACI representations





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