THE TELESIS GUIDE

A comprehensive overview of products and services from the permanent marking and traceability experts.

LASER MARKING SYSTEMS
PINSTAMP® DOT PEEN
BENCHMARK® DOT PEEN
TELESCRIBE® MARKING SYSTEMS
CUSTOM ENGINEERED SOLUTIONS

TELESIS

TELESIS IS

THE PIONEERS

While Telesis PINSTAMP® systems remain **the gold standard** in dot peen marking, our team consistently brings new game-changing products to market. Our Fiber laser markers introduced new technology to permanent marking and together with our Infrared, Green, UV, and CO_2 markers continually push the boundaries of industrial marking. Forward-thinking Telesis-developed vision systems **create catalysts for industrial automation.**

RUGGED & RELIABLE

Telesis equipment is **built to last**. We engineer our laser marking systems and dot peen markers with **high-quality, robust materials** that stand up to the challenges of tough environments. Highest-quality laser sources, powder-coated metals, damage-proof screens, and sturdy materials are just some of the reasons our customers experience **fewer problems, less down time, and greater production efficiency.**

DIFFERENT

THE WIDEST ARRAY

Whether you need an off-the-shelf bench-top PINSTAMP® marker or want a custom engineered integrated laser system, **Telesis has the product lineup, the know-how, and specialized service offerings** to make it happen. Also, running all your marking equipment with the same great proprietary MERLIN® software **requires less employee training and more cross-functionality** in your operations.

ONE-STOP SHOP

Ditch the confused and fragmented individual service providers and **let us take care of everything.** From equipment, to software, to customization and integration, we'll design and fully support all aspects of a **turnkey solution that meets your unique needs.** Ongoing maintenance programs and on-call service will ensure your investment is **long lasting and always efficient.**

THE BEST PEOPLE

We take our customers seriously. Team Telesis is united by the mission of delivering the ultimate experience at every step of our customers' journeys. Whether you are working with the expert sales team, talking to our network of strategic partners, chatting with our customer service team, or designing a custom solution with our engineers, **you will be wowed by the dedication and knowledge** we possess.

Guide Contents

Automotive

Aerospace & Defense

Medical & Pharma

Telesis Technologies is a trusted partner to the most demanding manufacturers across a **wide range of established and emerging industries.**


Foodpack
Consumer Products
Semiconductors & Electronics

Laser Marking Systems

" All of your employees seem to be willing and able to give that 'little bit extra' to make everything go right. "

- Ed Reinemeyer, Federal-Mogul

Laser Marker Overview

Dual-Head

The innovative, patented Telesis dual-head laser system is **perfectly suited for advanced applications that require rapid processing.** The multi-head design of this laser offers the **unique ability to control two laser markers with the same controller,** reducing overall footprint and lowering the cost of operation. It is the industry's **only fiber laser system of its kind to be entirely air cooled and powered from a single-phase power outlet.**

Fiber

The Telesis APEX.200™ and Summit.Pro™ laser marking systems are the **most versatile marking technology** due to its **adaptability, minimal maintenance, and the total elimination of consumables** from the marking process. They are most used in metal and plastic processing industries for **precise and efficient direct marking** of parts and products. From automotive manufacturing through medical and security technology to electronics, Telesis Fiber delivers.


Plastics


Metals

Carbon Migration


Deep Marking

Ultraviolet

The 355 nm UV laser wavelength is versatile in marking a wide range of materials and **perfect for "cold marking" applications where heat-affected zones are not allowed**—the machine is **great for marking plastics and silicon materials without additives and can mark glass with a reduced risk of micro-fracture.** The very small high-quality beam spot makes **precision micro-marking with extremely sharp resolution** possible.


Plastics


Metals


Low Pigmentation


Organics

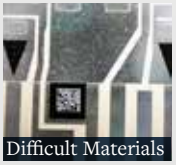
Green

The Telesis EV4GDS is a fiber-coupled, diode-pumped, solid-state (DPSS) green wavelength system. The laser beam characteristics are **optimized for applications that require high beam quality and stability.** The EV4GDS offers **extra power and speed**—the ideal choice for laser marking, scribing, and trimming. The robust mechanical and optical design of the Telesis EV4GDS **enables operation in an industrial environment where shock, vibration, and dust are a concern.**


Plastics


Metals


Delicate Materials


Difficult Materials

Technology Options

Vanadate

E-Series diode-pumped YAG and vanadate laser markers offer **improved beam quality, increased depth of focus, and higher peak powers** compared to fiber lasers—for fine marking, heat-sensitive materials (metal, foils, silicon, plastics, etc.) and **applications where high consistency is required.**


Plastics


Metals


Fine Detail

Carbon Migration

CO2

Proven CO2 systems provide a galvo-steered beam. It is an **excellent choice for heavy use and high-duty cycle environments** and is beneficial to **label and packing operations** as it removes the need for consumables and speeds process. **Equally capable at stationary bench-top use and mark-on-the-fly installations,** this machine can mark up to 1300 characters per second in automated environments.


Plastics


Painted Metals


Organics

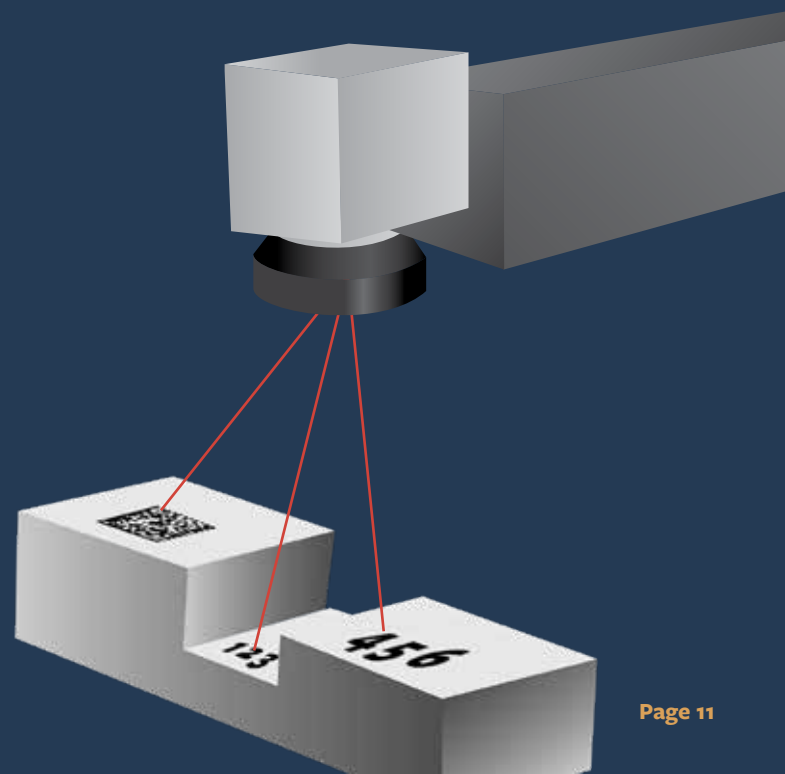
Melted Mark

Vari-Z™ 3-Axis 3D Marking

Vari-Z™ 3-Axis Laser Markers are perfectly suited for advanced applications that require processing of non-flat parts, multiple planes, and uneven surfaces. The Telesis Vari-Z™ technology increases the focal range, eliminating the need for tooling changes while saving time and money.

AutoFocus

Additionally, the AutoFocus function option on available Vari-Z™ model lasers compensates for varying target heights. This displacement sensor allows the machine to continuously compensate for changes in material thickness.



Our **patented dual-head laser design** is an industry first. It eliminates downtime and creates more efficient throughput.

Double the Capability with One Controller

DUAL-HEAD LASER MARKING SYSTEM

Increases throughput in high-speed and repetitive applications

Allows for the unique ability to **control two lasers from the same controller**

Saves floor space and reduces part handling by the operator

Creates unmatched marking efficiency and operating productivity

Technology Options

Vari-Z™ 3-Axis 3D/AutoFocus

Cognex™ In-line Vision

Mark-on-the-Fly Software

Lens Configurations

Diameter	Marking Area			Working Clearance	
100 mm	2.56 in x 2.56 in	65 mm x 65 mm		3.82 in	97 mm
160 mm	3.54 in x 3.54 in	90 mm x 90 mm		6.93 in	176 mm
163 mm	4.33 in x 4.33 in	110 mm x 110 mm		7.28 in	185 mm
254 mm	6.89 in x 6.89 in	175 mm x 175 mm		11.65 in	296 mm
330 mm	9.06 in x 9.06 in	230 mm x 230 mm		15.23 in	387 mm
350 mm	9.84 in x 9.84 in	250 mm x 250 mm		15.43 in	392 mm
420 mm	11.42 in x 11.42 in	290 mm x 290 mm		19.45 in	493 mm

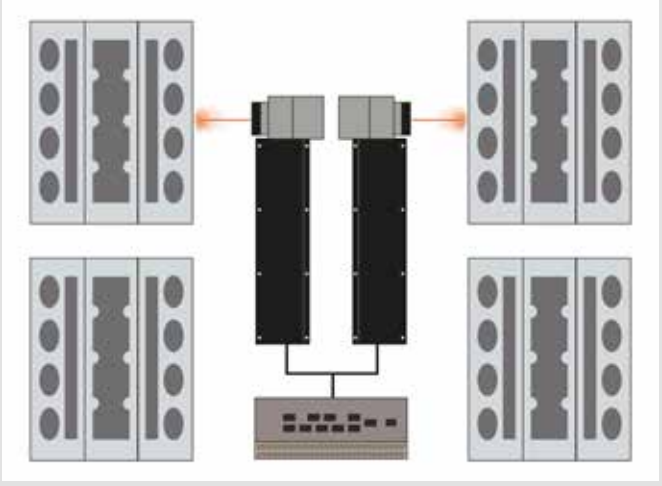
Controllers

F16I External PC

F16IE Embedded PC

Software

Proprietary **Merlin® 2H**



PERFECTED BY TELESIS

ULTRA DEEP MARKING

True innovation in permanent marking has arrived:
achieve deep marks with APEX.200™

- Produce **higher quality** marks than pin-based alternatives
- **Improve consistency** in your operations
- Achieve necessary **depth in heavy, dense materials**
- **Eliminate consumables** and reduce recurring costs
- **Easily integrate** APEX into production lines
- **Reduce energy** consumption
- **Increase throughput** of product
- Quickly **realize ROI**

Powerful, Strong, and Rigorous Fiber Laser Marker

APEX.200™ LASER MARKING SYSTEM

Powerful
The most capable marker in the industry

Strong
Built with high quality components for heavy duty and rough environments

Rigorous
Conquers challenging specs for depth, speed, and mark quality

Models

APEX.200	200 Watt

Technology Options

Vari-Z™ 3-Axis
iZONIT™ Vision System
TeleView™ Quality Control
Programmable Mounting Post

Controllers

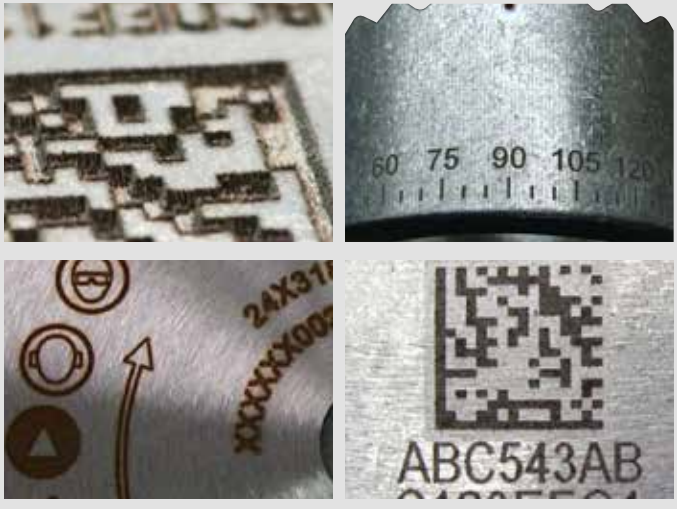
APEX.200 Laser Controller

Software

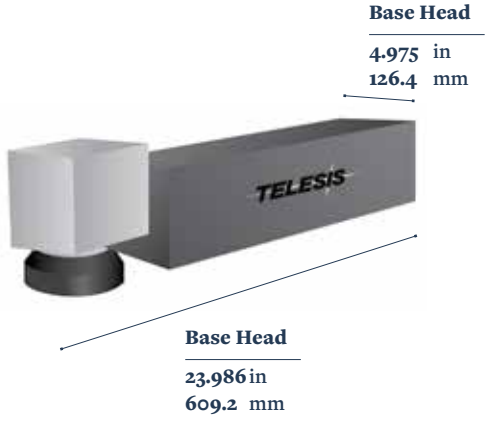
Proprietary **Merlin® II LS**

Lens Configurations

Diameter	Marking Area		Working Clearance	
163 mm	4.33 in x 4.33 in	110 mm x 110 mm	7.28 in	185 mm
254 mm	6.89 in x 6.89 in	175 mm x 175 mm	11.65 in	296 mm
330 mm	9.06 in x 9.06 in	230 mm x 230 mm	15.24 in	387 mm
350 mm	9.84 in x 9.84 in	250 mm x 250 mm	15.39 in	392 mm
420 mm	11.42 in x 11.42 in	290 mm x 290 mm	19.41 in	493 mm



Dimensions



Telesis Technologies **perfected fiber laser marking technology**—now the gold standard in laser marking.

The Industry's Most Advanced Fiber Laser Marker

SUMMIT.PRO™ LASER MARKING SYSTEM

Next Generation

The most significant advancement in permanent marking technology the industry has seen—from the leader in fiber laser marking, Telesis

High Quality

Built with high quality, heavy duty components that withstand the toughest environments and applications

Integrate Easily

Can be added to virtually any production line or manufacturing facility with available EIP or PROFINET

Models

Summit.30	30 Watt
Summit.50	50 Watt
Summit.100	100 Watt

Technology Options

Vari-Z™ 3-Axis

iZONIT™ Vision System

TeleView™ Quality Control

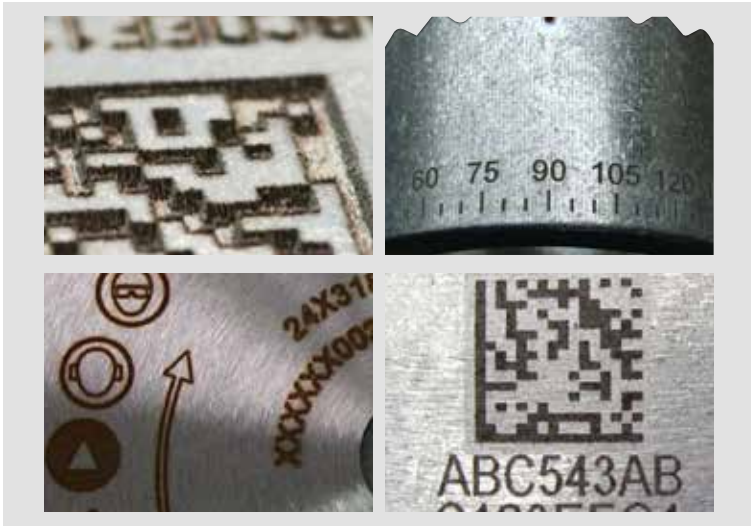
Programmable Mounting Post

Controllers

Summit.Pro Laser Controller

Software

Proprietary **Merlin® II LS**



Lens Configurations

Diameter	Marking Area		Working Clearance	
100 mm	2.56 in x 2.56 in	65 mm x 65 mm	3.82 in	97 mm
160 mm	3.54 in x 3.54 in	90 mm x 90 mm	6.93 in	176 mm
163 mm	4.33 in x 4.33 in	110 mm x 110 mm	7.28 in	185 mm
254 mm	6.89 in x 6.89 in	175 mm x 175 mm	11.65 in	296 mm
330 mm	9.06 in x 9.06 in	230 mm x 230 mm	15.23 in	387 mm
350 mm	9.84 in x 9.84 in	250 mm x 250 mm	15.39 in	392 mm
420 mm	11.42 in x 11.42 in	290 mm x 290 mm	19.45 in	493 mm

Dimensions

Base Head	w/ Vari-Z™
4.975 in	6.225 in
126.4 mm	158.1 mm

Base Head	w/ Vari-Z™
20.508 in	25.151 in
520.9 mm	638.8 mm

The EVCDS laser **creates a near infrared wavelength laser beam** using innovative technology.

Versatile Marking on a Range of Materials

VANADATE LASER MARKING SYSTEM

Low-cost engraving and annealing for a wide array of product materials including ferrous and non-ferrous metal, label materials, and silicon

Precise setting controls for fine-tuned application versatility: Engraving, annealing, surface marking, and color marking

Very small HAZ (heat-affected zone) provides additional **flexibility with heat-sensitive and delicate components**

Models

EVCDS

Technology Options

Vari-Z™ 3-Axis

Mark-on-the-Fly Technology

Programmable Mounting Post

Controllers

E15	External PC
E15E	Embedded PC

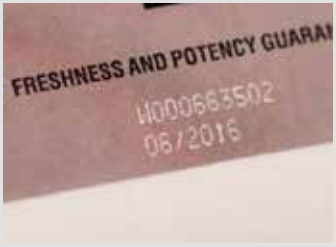
Software

Proprietary **Merlin® II LS**

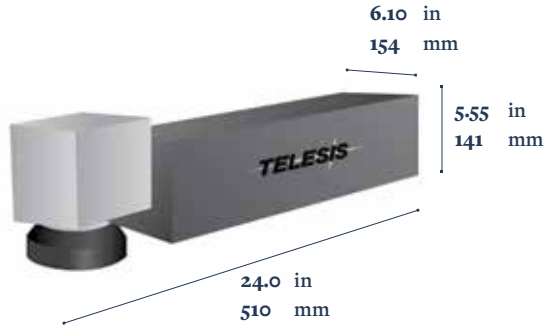
Lens Configurations

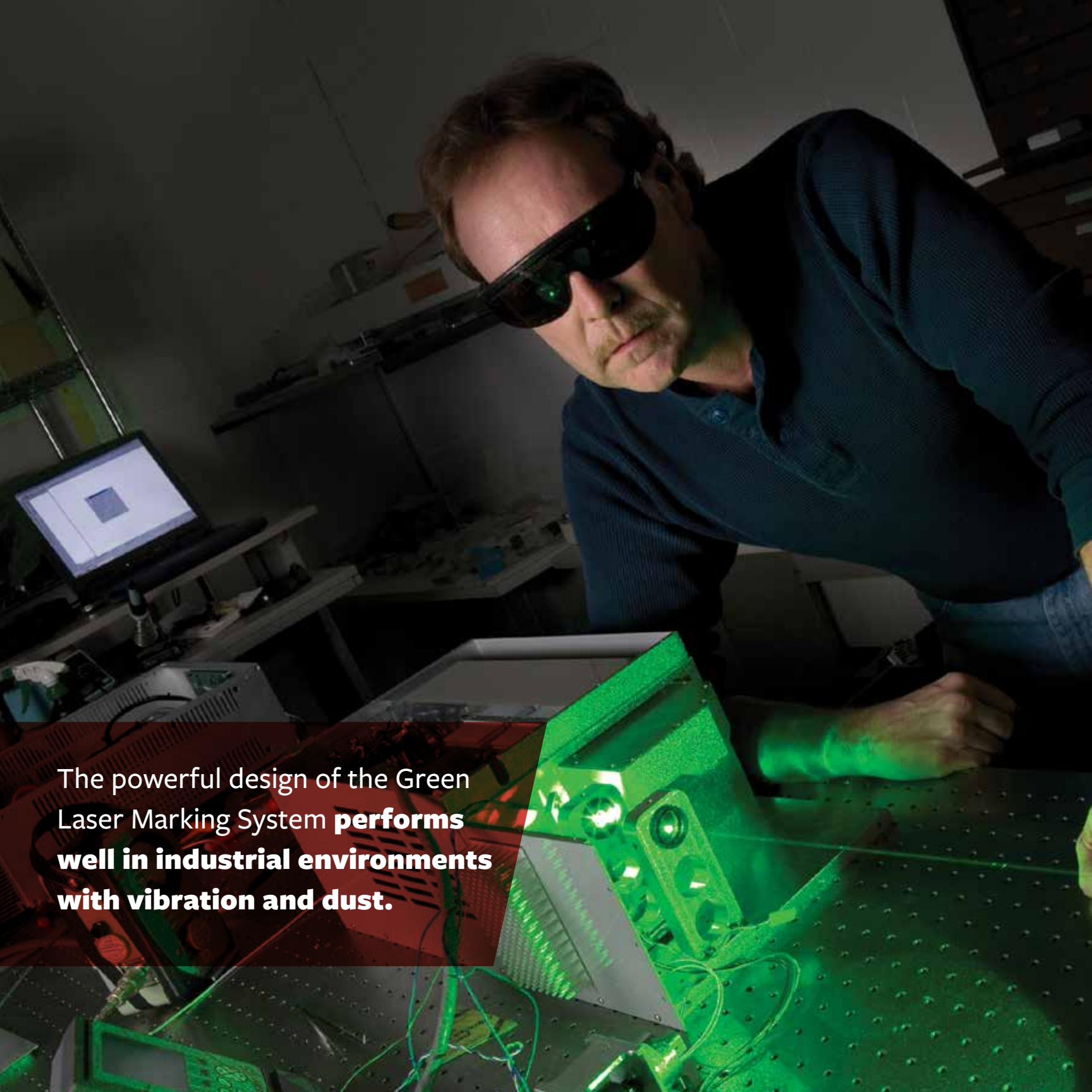
Diameter	Marking Area		Working Clearance	
100 mm*	2.56 in x 2.56 in	65 mm x 65 mm	3.82 in	97 mm
160 mm*	4.33 in x 4.33 in	110 mm x 110 mm	6.93 in	176 mm
160 mm	4.33 in x 4.33 in	110 mm x 110 mm	7.13 in	181 mm
254* mm	6.89 in x 6.89 in	175 mm x 175 mm	11.65 in	296 mm
254 mm	6.89 in x 6.89 in	175 mm x 175 mm	11.5 in	292 mm
330* mm	9.06 in x 9.06 in	230 mm x 230 mm	15.24 in	387 mm
420* mm	11.42 in x 11.42 in	290 mm x 290 mm	19.41 in	493 mm

* Premium Lens



Dimensions





The powerful design of the Green Laser Marking System **performs well in industrial environments with vibration and dust.**

Extra Power for Robust Applications

GREEN LASER MARKING SYSTEM (EV4GDS)

Provides cold marking for **ultra-fine and very soft marking on parts**

Great option for marking materials that usually react poorly to infrared wavelengths

Wonderful for **micro-marking**, like 2D matrix codes, as well as detailed graphic logos

Changes surface color for legible marks **without burning** the material

Models

EV4GDS

Technology Options

Mark-on-the-Fly Technology

Programmable Mounting Post

Lens Configurations

Diameter	Marking Area						Working Clearance	
100 mm	2.17 in	x	2.17 in	55 mm	x	55 mm	3.54 in	90 mm
160 mm	4.33 in	x	4.33 in	110 mm	x	110 mm	6.93 in	176 mm
250 mm	6.69 in	x	6.69 in	170 mm	x	170 mm	11.34 in	288 mm

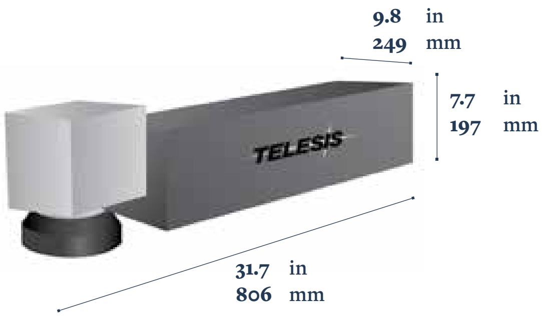
Controllers

E15	External PC
E15E	Embedded PC

Software

Proprietary **Merlin® II LS**

Dimensions



The UV/one **offers impressive all-in-one design and an incredible focal tolerance.**

Ultra-Crisp Marks on Challenging Materials

UV/ONE • ALL-IN-ONE ULTRAVIOLET LASER MARKING

All-in-one marker/controller design **saves space** in your facility with a compact footprint for **easy integration** into production lines

Through suppressed heat effects, burrs and yellow tinting are eliminated, allowing for a **nearly perfect finish**

Completely eliminate day-to-day consumables and **reduce operational costs**

Models

UV/one

Technology Options

iZONIT™ Vision System

Mark-on-the-Fly Technology

Programmable Mounting Post

Configurations

Marking Area			Working Clearance		
5.9 in	x	5.9 in	150 mm	x	150 mm	9.409 in	239 mm

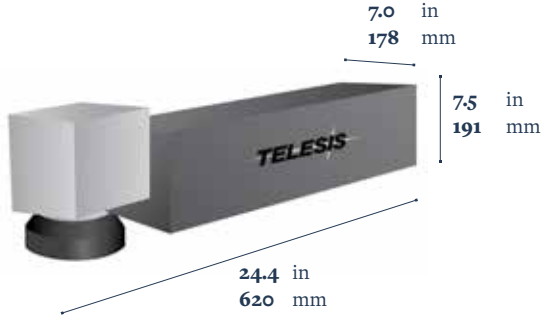
Controllers

Fully Integrated

Software

Proprietary **Merlin® II LS**

Dimensions




UV/KRYO
LASER

Ultraviolet Power, Precise Marking for All Materials

UV/KRYO • TRUE 3-WATT POWER

Laser beam and Q-switched pulse characteristics are optimized for applications that require high beam quality and stability.

Great for high-speed marking on delicate and sensitive electronics components, glass, and medical instruments.

Ideal for general purpose laser marking, scribing, trimming, and other material processing applications.

Models

UV/KRYO

Technology Options

iZONIT™ Vision System

Mark-on-the-Fly Technology

Programmable Mounting Post

Controllers

U20 Controller

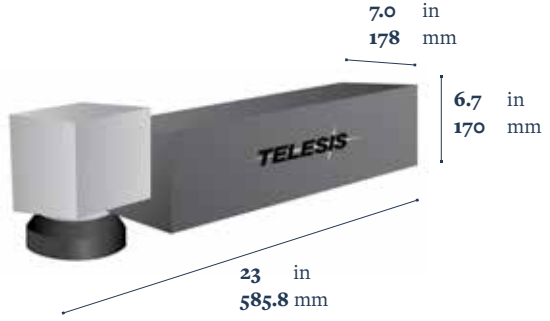
Software

Proprietary **Merlin® II LS**

Configurations

Diameter	Marking Area			Working Clearance	
160 mm	3.54 in x 3.54 in	90 mm x 90 mm		6.93 in	176 mm
254 mm	6.89 in x 6.89 in	175 mm x 175 mm		11.65 in	296 mm
330 mm	9.05 in x 9.05 in	230 mm x 230 mm		15.35 in	390 mm
420 mm	11.81 in x 11.81 in	300 mm x 300 mm		19.48 in	495 mm

Dimensions



The UVC marks plastics and silicone **without the need of additives and marks glass with a reduced risk of microfracture.**

Damage-Free Versatility

ULTRAVIOLET LASER MARKING SYSTEM

Versatile in **marking a wide range** of materials

Perfect for "cold marking," where heat-affected zones are damaging or aesthetically unacceptable

Eliminates additives when marking plastic or silicon materials

Reduces risk of micro-fracture when marking glass micro-mark electronics, circuit boards, microchips, solar panels, gemstones, and medical instruments

Models

UVC

Technology Options

Vari-Z™ 3-Axis

iZONIT™ Vision System

Mark-on-the-Fly Technology

Lens Configurations

Diameter	Marking Area		Working Clearance	
103 mm	2.56 in x 2.56 in	65 mm x 65 mm	5.35 in	136 mm
160 mm	4.33 in x 4.33 in	110 mm x 110 mm	8.58 in	218 mm
250 mm	6.10 in x 6.10 in	155 mm x 155 mm	12.2 in	310 mm
255 mm	6.69 in x 6.69 in	170 mm x 170 mm	12.36 in	314 mm

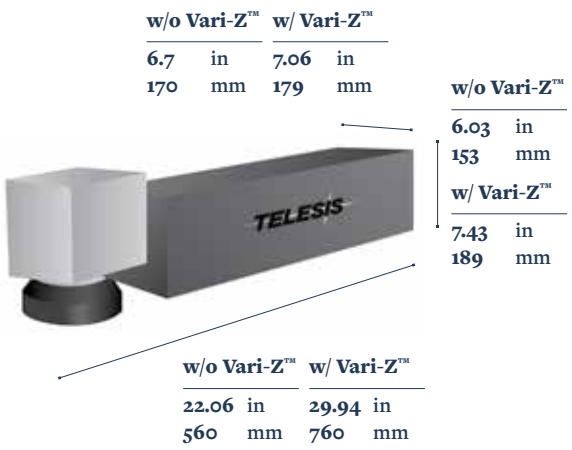
Controllers

U15 External PC

Software

Proprietary **Merlin® II LS**

Dimensions



For organic materials like wood, the CO2 line of laser marking systems can't be beat.

Proven Flexibility and Practicality

CO2 LASER MARKING SYSTEM

Great for marking organic materials like wood, rubber, paper, and ceramic

Equally **capable at stationary bench-top use and mark-on-the-fly** installations

Excellent choice for **heavy industrial and high-duty cycle** applications

Models

CO2 • 10 10 Watt
CO2 • 30 30 Watt

Technology Options

iZONIT™ Vision System
Mark-on-the-Fly Technology
Programmable Mounting Post

Controllers

Model C1830EF Embedded PC

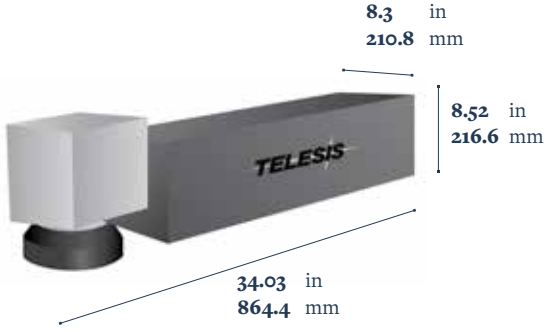
Software

Proprietary **Merlin® II LS**

Lens Configurations

Diameter	Marking Area		Working Clearance	
100 mm	2.76 in x 2.76 in	70 mm x 70 mm	3.19 in	81 mm
160 mm	4.33 in x 4.33 in	110 mm x 110 mm	5.15 in	131 mm
210 mm	5.51 in x 5.51 in	140 mm x 140 mm	7.24 in	184 mm
350 mm	9.84 in x 9.84 in	250 mm x 250 mm	13.82 in	351 mm

Dimensions




TELESIS
CLASS 1
LASER MARKING
WORKSTATION
PROSTATION


TELESIS
MARK OF CONFIDENCE

PROSTATION™ // Class 1 Laser Enclosure

DURABLE
Constructed with industrial grade materials

FLEXIBLE
Accommodates an array of part shapes and sizes

SAFE
Complies with CDRH Class 1 and ISO13849-1 guidelines

EFFICIENT
Engineered for rapid processing

	ProStation™	Mini ProStation™
Why it's great	**Robust, industrial, and customizable** Class 1 laser enclosure for marking large parts	Narrow and nimble Class 1 enclosure workstation **for challenging space constraints**
Enclosure Size **W** x **H** x **D**	**40** in x **102.5** in x **40.24** in **1016** mm x **2603** mm x **1022** mm	**27.5** in x **71.3** in x **35.4** in **698** mm x **1811** mm x **899** mm
Interior Working Area **W** x **H** x **D**	**36.5** in x **37** in x **30.25** in **927** mm x **940** mm x **768** mm	**26.5** in x **36.5** in x **24.5** in **673** mm x **927** mm x **622** mm

Class 1 Laser Enclosures

DialPro™

// FASTER CYCLE TIME
Simultaneous load/unload and mark/read operations with dual positions

Concurrently run multiple processes in parallel with the addition of extra positions

// INCREASED PRODUCTIVITY
Fast and easy part handling with integration-friendly front or overhead load/unload design

Time-saving view of control operations and code reading with overhead monitor

Greater mark positioning efficiency and 2D code reading functionality

// APPLICATION FLEXIBILITY
Accommodates a variety of process options including 3D marking, code reading, inspection, cleaning

36 in (914 mm) diameter dial table and a 10 in (254 mm) height clearance provide ample spatial capacity for processing a wide range of part sizes

BoxPro™

// PLUG AND PLAY
The Telesis BoxPro arrives fully assembled, meaning once it is powered, you can get right to work

// SIMPLICITY PERFECTED
The BoxPro offers a simple effective design paired with an entry-level laser marker perfect for smaller and up-and-coming outfits

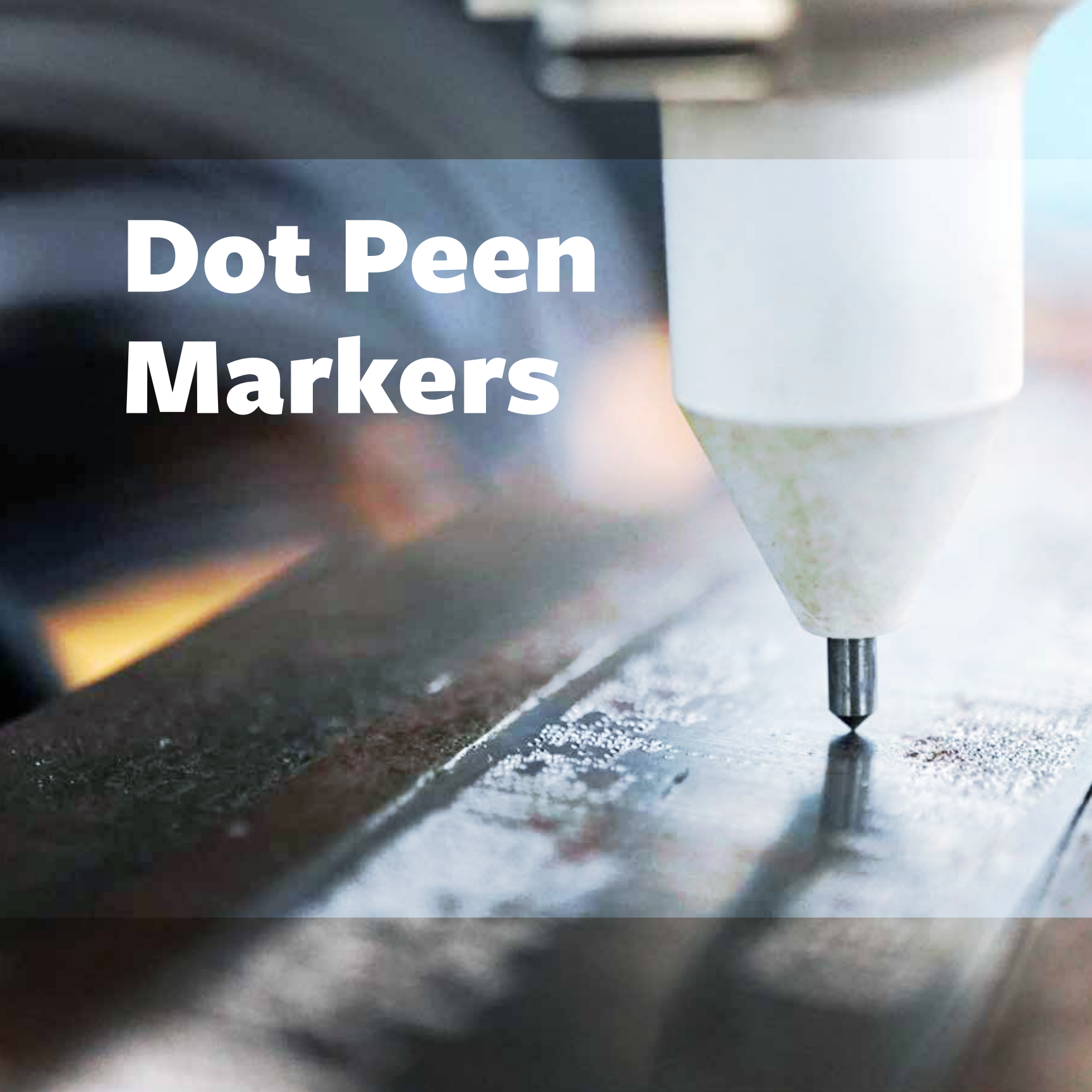
// RIGHT-SIZED
At 20 in x 16 in (508 mm x 406.4 mm) this efficiently sized Class 1 enclosure can fit into almost any production space.

ProMed™

// MEDICAL GRADE
The Telesis ProMed is exclusively designed for the demanding needs of medical device part marking

// PRECISION IN MIND
The Mattison precision ground top plate, Aerotech X/Y stage, heavy-duty welded steel base, and robust programmable Z-axis mounting post make this equipment solid and marks exact

// LASER FOCUSED
Equipped with a laser perfect for annealing as well as other applications, the Telesis ProMed is available as a Class 1 or CDRH Class 4 enclosure



Dot Peen Markers

"What separates Telesis from the others is the way they believe in and stand behind their products. Telesis delivers."

- Jeremy Tincher, Smith & Nephew

Dot Peen Overview

SINGLE-PIN DOT PEEN MARKERS

	TMP1700	TMP2100	TMP3200	TMP4210	TMP4750	TMP6100
						
Features	This proven industrial workhorse is an industry staple and continues to impress.	The TMP2100 provides great functionality fit into a smaller footprint.	A generously sized marking window sets this dot peen marker apart from the rest.	The TMP4210 is an incredibly lightweight and compact hand-held marker.	This lightweight hand-held marker delivers remarkable power and depth.	The robotic design delivers precise marks and makes part placement easy.
What it's Good For	Field-Proven Design Highly Functional Unparalleled Reliability	Fast Marking Small Characters Compact Envelope	Fast Marking For Constrained Space Robust Construction	For High Production Space Constraints Easy to Use	VIN Marking Extra-Deep Marking Dark Spaces	Large Applications Cylindrical Marking Medical Applications
Marking Window (in)	1.50 in x 2.50 in	0.79 in x 1.96 in	4.0 in x 6.0 in	0.5 in x 2.0 in	1.57 in x 5.5 in	6.0 in x 12.0 in
Marking Window (mm)	38 mm x 63 mm	20 mm x 50 mm	100 mm x 150 mm	13 mm x 51 mm	40 mm x 140 mm	152 mm x 305 mm
Max Marking Speed	5 characters / second	4 characters / second	4 characters / second	4 characters / second	4 characters / second	2 characters / second
Marking Depth (in)	0.001 - 0.013 in	0.001 - 0.013 in	0.003 - 0.013 in	0.001 - 0.013 in	0.001 - 0.018 in	0.001 - 0.018 in
Marking Depth (mm)	0.076 - 0.305 mm	0.03 - 0.33 mm	0.03 - 0.33 mm	0.03 - 0.33 mm	0.03 - 0.45 mm	Varies
Max Character Height (in)	1.5 in	0.79 in	4.0 in	0.5 in	5.5 in	6 in
Max Character Height (mm)	38 mm	20 mm	101.6 mm	12.7 mm	140 mm	152.4 mm
Max Resolution	200 dpi	200 dpi	200 dpi	200 dpi	200 dpi	200 dpi
Logo Marking Capable	Yes	Yes	Yes	Yes	Yes	Yes
2D Code Marking Capable	Yes	Yes	Yes	Yes	Yes	Yes
Radial Marking Capable	Yes	Yes	Yes	No	No	Yes
Programmable Z-Axis	Yes	Yes	Yes	Yes	No	Yes
Floating Pin Technology	Yes	Yes	Yes	Yes	Yes	Yes
Maximum Number of Pins	1	1	1	1	1	1
Mounting	Fixtured Standard Handheld Optional	Fixtured Standard Handheld Optional	Fixtured Standard Handheld Optional	Handheld Standard Fixtured Optional	Handheld Standard Fixtured Optional	Fixtured Standard
Available in Electric	Yes	No	Yes	No	No	No
Controllers Available	**TMC470** Fixed Button Controller **TMC520** Touch Screen Controller Powered by Merlin® **PC** w/ Merlin®	**TMC470** Fixed Button Controller **TMC520** Touch Screen Controller Powered by Merlin® **PC** w/ Merlin®	**TMC470** Fixed Button Controller **TMC520** Touch Screen Controller Powered by Merlin® **PC** w/ Merlin®	**TMC470** Fixed Button Controller **TMC520** Touch Screen Controller Powered by Merlin®	**TMC470** Fixed Button Controller **TMC520** Touch Screen Controller Powered by Merlin®	**TMC470** Fixed Button Controller **TMC520** Touch Screen Controller Powered by Merlin® **PC** w/ Merlin®

MULTI-PIN DOT PEEN MARKERS

PORTABLE DOT PEEN MARKERS

	TMM4200	**TMM4250**	**TMP4500E**	**Nomad 2000**	**Nomad 4000**
					
	A unique, compact ergonomic multi-pin marker is incredibly fast.	**Ideal for online applications in wet, dirty manufacturing environments.**	**A powerful piece of hand-held equipment, this marker eliminates the need for air.**	**The Nomad 2000 is a fully portable, rechargeable, battery-powered system.**	**The Nomad 4000 is a fully portable, rechargeable, with more power than the 2000.**
	Constrained Space Comfortable Grip Makes Quick Marks	**Wet Environments Fixtured Applications For Constrained Space**	**Does Not Require Air Makes Deep Marks Easy to Hold**	**Rechargeable Battery Can Go Anywhere Does Not Require Air**	**Makes Deep Marks Can Go Anywhere Does Not Require Air**
	0.5 in x 2.0 in	**0.5 in x 2.0 in**	**1.0 in x 4.0 in**	**1.0 in x 4.0 in**	**1.0 in x 4.0 in**
	12.7 mm x 50.8 mm	**12.5 mm x 60.8 mm**	**25.4 mm x 101.6 mm**	**25.4 mm x 101.6 mm**	**25.4 mm x 101.6 mm**
	8 Characters / second	**8 Characters / second**	**4 characters / second**	**2 characters / second**	**2 characters / second**
	0.001 - 0.013 in	**0.001 - 0.013 in**	**0.001 - 0.018 in**	**0.001 - 0.010 in**	**0.001 - 0.018 in**
	0.03 - 0.33 mm	**0.03 - 0.33 mm**	**0.03 - 0.46 mm**	**0.03 - 0.25 mm**	**0.03 - 0.46 mm**
	0.5 in	**0.5 in**	**1.0 in**	**1.0 in**	**1.0 in**
	12.7 mm	**12.7 mm**	**25.4 mm**	**25.4 mm**	**25.4 mm**
	200 dpi	**200 dpi**	**80 dpi**	**80 dpi**	**80 dpi**
	Yes	**Yes**	**Yes**	**Yes**	**Yes**
	Yes	**Yes**	**Yes**	**Yes**	**Yes**
	No	**Yes**	**No**	**No**	**No**
	No	**No**	**No**	**No**	**No**
	Yes	**Yes**	**No**	**No**	**No**
	4	**4**	**1**	**1**	**1**
	Handheld Standard	**Handheld Standard**	**Handheld Standard**	**Handheld Standard**	**Handheld Standard**
	No	**No**	**Electric Only**	**Electric Only**	**Electric Only**
	TMC470 Fixed Button Controller **TMC520** Touch Screen Controller Powered by Merlin®	**TMC470** Fixed Button Controller **TMC520** Touch Screen Controller Powered by Merlin®	**TMC470** Fixed Button Controller **TMC520** Touch Screen Controller Powered by Merlin®	**Nomad Controller**	**Nomad Controller**

* Speed based on
.125 in (3 mm) characters

BenchMark® Dot Peen Markers

ENTRY LEVEL DOT PEEN MARKERS

	BenchMark® 200	BenchMark® 320	BenchMark® 460
			
Features	An entry-level system with extruded aluminum marking head mounting post and base	An entry-level machine with optional vision technology good for bench-top applications and proudction lines	An entry-level fully programmable machine great for portable marking.
What it's Good For	Smaller Budgets Does Not Require Air Great Value	Smaller Budgets Does Not Require Air Great Value	Smaller Budgets Does Not Require Air Great Value
Marking Window (in)	4.0 in x 4.0 in	4.0 in x 6.0 in	1.0 in x 4.0 in
Marking Window (mm)	101 mm x 101 mm	101 mm x 152.4 mm	25 mm x 101 mm
Max Marking Speed	3 characters / second	3 characters / second	3 characters / second
Marking Depth (in)	0.001 - 0.010 in	0.001 - 0.018 in	0.001 - 0.010 in
Marking Depth (mm)	0.03 - 0.25 mm	0.03 - 0.46 mm	0.03 - 0.25 mm
Max Character Height (in)	4.0 in	4.0 in	1.0 in
Max Character Height (mm)	25.4 mm	101.6 mm	25.4 mm
Max Resolution	80 dpi	75 dpi	80 dpi
Logo Marking Capable	Yes	Yes	Yes
2D Code Marking Capable	Yes	Yes	Yes
Radial Marking Capable	No	Yes	No
Programmable Z-Axis	No	No	No
Floating Pin Technology	No	No	No
Maximum Number of Pins	1	1	1
Mounting	Fixtured Standard	Fixtured Standard	Handheld Standard
Available in Electric	Electric Only	Electric Only	Electric Only
Controllers Available	**TMC470** Fixed Button Controller **TMC520** Touch Screen Controller Powered by Merlin®	**TMC470** Fixed Button Controller **TMC520** Touch Screen Controller Powered by Merlin® **PC** w/ Merlin®	**TMC470** Fixed Button Controller **TMC520** Touch Screen Controller Powered by Merlin® **PC** w/ Merlin®

Speed >>

Depth >>

Flexibility >>

Meeting Every Challenge

THE WORLD'S FASTEST DOT PEEN MARKER

16 characters per second

Unique to Telesis, our PINSTAMP® dot peen markers **have multiple pins to complete marks more quickly.** From 2 pins to 8 pins, we have a solution that meets your needs. The TMM5400, with 8 pins, is the world's fastest marker. The TMM5100 is also a versatile option for speed.

MULTI-STRIKE

.022 in .5588 mm

The proprietary Multi-Strike feature fires the pin multiple times, resulting in a deeper mark. The software upgrade can be added to many markers. The TMM7200 is a custom product for extra deep marking needs.

Barcode Scanner

AutoSense

Rotary Chuck

Programmable Z-Axis

iZONIT™


TMP1700
THE ORIGINAL PINSTAMP®
IZONIT® VISION FOR PINSTAMP® MARKERS
TELESIS

The Proven Industrial Workhorse

The Original PINSTAMP® TMP1700

Rugged, low-maintenance X/Y platform

Compact, contaminant-resistant head design

Marks a wide range of materials from soft plastics to hardened steel (rc60)

Interchangeable marking pin sizes for depths from 0.001 in - 0.018 in (0.03 mm - 0.45 mm)

Floating pin technology easily **accommodates surface irregularities** up to 0.25 in (6 mm)

Additional Features

TMP1700EAS: Available as electric model

Marking speeds up to five characters per second

Automatically generates serial numbers, time, date, and shift codes

Store hundreds of marking patterns

Easily interfaced to PLCs and host computers

Controllers

TMC470
Fixed Button Controller

TMC520
Touch Screen Controller Powered by Merlin®

PC
w/ Merlin®

Options and Accessories

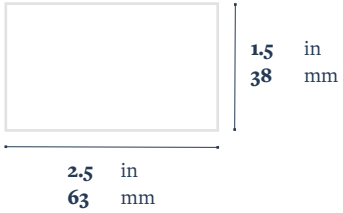
Rotary fixtures for marking circumferences of cylindrical parts

Marking head mounting post, including programmable Z-axis

Panel-mount and IP/NEMA rated controllers

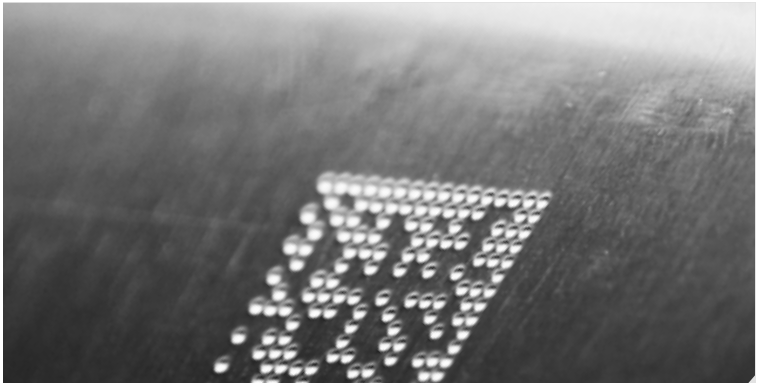
Easy and free software upgrades

Marking Window



Marking Specifications

Max Character **Depth**	0.003 in 0.76 mm
Max Character **Height**	1.5 in 38.1 mm
Characters **per Second**	5
Resolution	200 dpi




TELESIS® PINSTAMP®
TMP3200
MARKING SYSTEM

A Large Marking Window

The Original PINSTAMP® TMP3200

Simple yet robust belt-driven dual rail

X/Y platform yields **high-quality characters**

Rugged design means **long-lasting, low-maintenance operation**

Marks a wide range of materials from soft plastics to hardened steel (rc60)

Floating pin technology easily **accommodates surface irregularities** up to 0.25 in (6 mm)

Additional Features

TMP3200EAS: Available as electric model

Dot Density: Up to 200 dots-per-inch (79 dots per centimeter)

Choice of interchangeable marking pins: .001 in - .018 in (0.03 mm - 0.34 mm)

Marking speeds up to four characters per second

Automatically generates serial numbers, time, date, and shift codes

Options and Accessories

Rotary fixtures for marking circumferences of cylindrical parts

Marking head mounting post, including programmable Z-axis

Panel-mount and IP/NEMA-rated controllers

Easy and free software upgrades

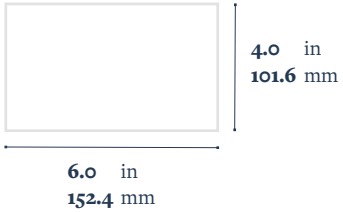
Controllers

TMC470
Fixed Button Controller

TMC520
Touch Screen Controller Powered by Merlin®

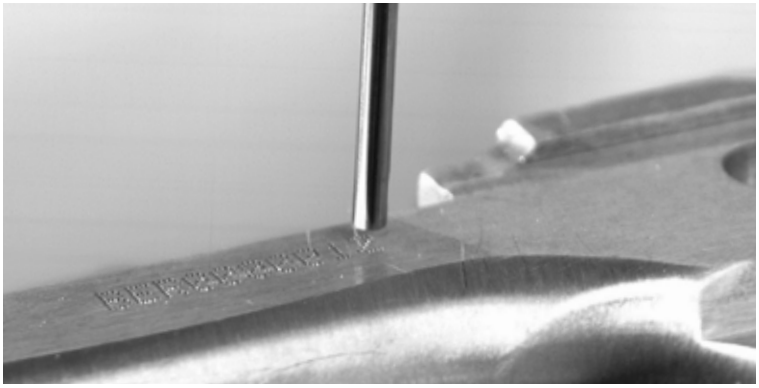
PC
w/ Merlin®

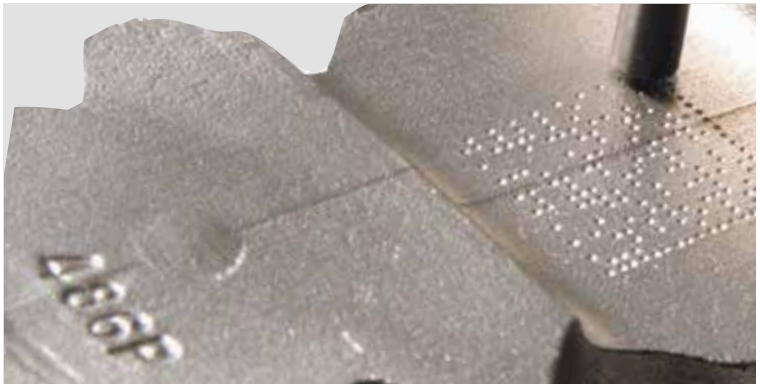
Marking Window



Marking Specifications

Max Character **Depth**	0.013 in 0.33 mm
Max Character **Height**	4.0 in 101.6 mm
Characters **per Second**	4
Resolution	200 dpi






TELESIS® PINSTAMP®
TMP4210
MARKING SYSTEM

Lightweight and Compact Handheld

The Original PINSTAMP® TMP4210

Great for smaller environments where movement and space are restricted

Lightweight construction makes the marker **easy to hold** for long periods of time

Durable components **withstand tough manufacturing environments**

Satisfies a wide range of applications **either as a portable handheld marker or integrated**

Additional Features

Dot Density: Up to 200 dots-per-inch (79 dots per centimeter)

Choice of interchangeable marking pins: .001 in - .018 in (0.03 mm - 0.34 mm)

Marking speeds up to four characters per second

Automatically generates serial numbers, time, date, and shift codes

Easily interfaced to PLCs and host computers

Options and Accessories

Quick-Disconnect tool post

Multi-Strike

Panel-mount and IP/NEMA-rated controllers

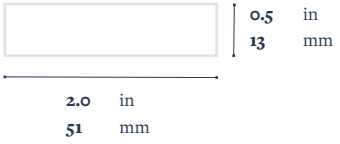
Easy and free software upgrades

Controllers

TMC470
Fixed Button Controller

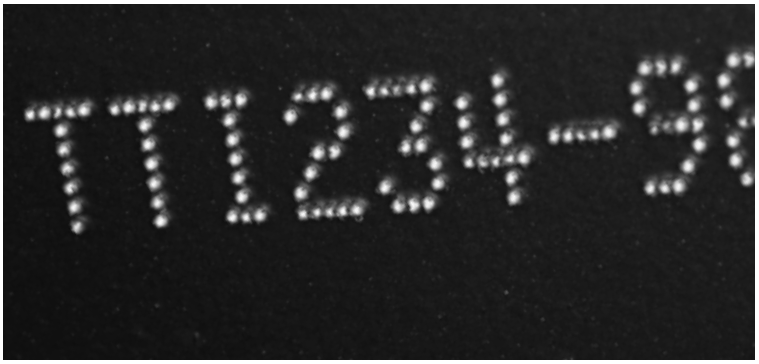
TMC520
Touch Screen Controller Powered by Merlin®

Marking Window



Marking Specifications

Max Character **Depth**	0.013 in 0.3 mm
Max Character **Height**	0.5 in 12.7 mm
Characters **per Second**	4
Resolution	200 dpi



" The 6100 is top quality. Our markers run all day long and they are bulletproof. "

- Bud Nelson, Acutec Precision

Robotic Design for Precise Marks

The Original PINSTAMP® TMP6100

Great for cylindrical marking where a rotary device can add efficiency and practicality

Durable components **withstand tough manufacturing environments**

Satisfies a wide range of marking applications while **integrating into factory automation networks**

AutoSense motorized Z-Axis mounting post ensures **consistent pin stroke and critical standoff distance is consistently repeated**

Additional Features

TMP6100EAS: Available as electric model

Choice of interchangeable marking pins: .001 in - .018 in (0.03 mm - 0.34 mm)

Marking speeds up to two characters per second

Automatically generates serial numbers, time, date, and shift codes

Easily interfaced to PLCs and host computers

Controllers

TMC470
Fixed Button Controller

TMC520
Touch Screen Controller Powered by Merlin®

PC
w/ Merlin®

Options and Accessories

Rotary fixtures for marking cylindrical parts

Marking head mounting post, including programmable Z-axis

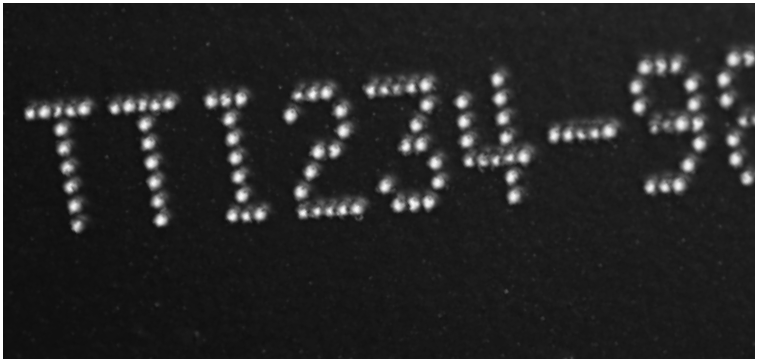
Panel-mount and IP/NEMA-rated controllers

Easy and free software upgrades

Marking Window

Marking Specifications

Max Character **Depth**	Varies
Max Character **Height**	6 in 152.4 mm
Characters **per Second**	2
Resolution	200 dpi




BENCHMARK
Dot Peen Marking System by TELESIS
BenchMark
320
with IZONIT
TNC
520

Dot Peen Marking with Vision Technology

BenchMark® 320 with iZONIT™

Make refined adjustments using
a simple on-screen interface

High definition camera allows precise mark placement

Mark numerous different parts with ease

Eliminate costly errors and scrap

Easy to use software — what you see is what you mark

Fully electric—no air required

Additional Features

Bench-Top or Integrated In-Line
Choice of interchangeable marking pins: .001 in - .018 in (0.03 mm - 0.34 mm)
Marking speeds up to two characters per second
Automatically generates serial numbers, time, date, and shift codes
Easily interfaced to PLCs and host computers

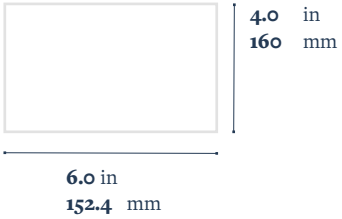
Controllers

TMC520
Touch Screen Controller Powered by Merlin®

Options and Accessories

Rotary fixtures for marking cylindrical parts
Includes marking head mounting post
Panel-mount and IP/NEMA-rated controllers
Easy and free software upgrades

Marking Window



Marking Specifications

Max Character **Depth**	Varies
Max Character **Height**	6 in 152.4 mm
Characters **per Second**	2
Resolution	200 dpi

Dot Peen Controllers

TMC470 Fixed Button Controller

Fully contained controller—no PC required

Easy-to-use menu design for pattern design

Ethernet port for TCP/IP communications

EthernetIP and PROFINET capable

Durable membrane keyboard

Store up to 400 marking patterns locally

Panel-mount kits available

Software can be customized for unique applications

TMC520 Touch Screen Controller

Create a design and produce a mark in under a minute

See exactly how the design will look before printing

Easy-to-use tools for arc text, graphics, and data matrix

Contaminant-resistant design and flexible installation

Software can be customized for unique applications

Impact-resistant touch screen interface

Panel-mount and stand kits available

Simple menu design for pattern design

Ethernet IP and Profinet capable

TMC520 FEATURES

PINCH ZOOM

PARSE FLAGS

ARC TEXT

EASY SWIPE MENUS

Telescribe®

SC2000

The SC2000 is a great **low-noise compact marker** for continuous marking of human-readable characters and symbols

SC2000 Marking Window
2.95 in x 1.57 in
(75 mm x 40 mm)

Marking Speed
.125 in (3 mm) character
up to 2 characters/second

SS3700

The SS3700 is expertly designed with a **large marking window and creates deep, quick marks with a servo-driven motor**

SS3700 Marking Window
2 in x 6 in
(50.8 mm x 152.4 mm)

Marking Speed
.276 in (7 mm) character
up to 4 characters/second

SC5000

A powerful scribe marker, the **heavy duty SC5000 has a large marking window and can create extra deep and wide marks**

SC5000 Marking Window
2.5 in x 7.5 in
(63 mm x 190 mm)

Marking Speed
.125 in (3 mm) character
up to 2 characters/second

SC6000VIN

A scribe marker specifically designed to mark VINs, the **heavy duty SC6000VIN exceeds deep marking regulations and requirements**

SC6000VIN Marking Window
1.18 in x 6.5 in
(30 mm x 165.1 mm)

Marking Speed
.18 in (4.5 mm) character
up to 2.0 characters/second

TELESCRIBE® FEATURES

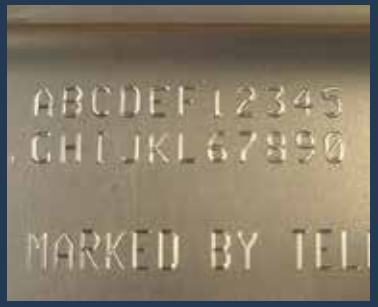
A **wide variety** of marking pins are available

Easily integrates into a wide range of automated online and manual applications

Virtually silent marking

Pin **penetrates without puncture**

Produces **crisp** logos in addition to text



Dot Peen Marking Windows to Scale

TMP6100
6.0 in x 12.0 in
152.4 mm x 304.8 mm

TMP3200
4.0 in x 6.0 in
101.6 mm x 152.4 mm

Benchmark 320
4.0 in x 6.0 in
101.6 mm x 152.4 mm

TMP4750
1.57 in x 5.5 in
40 mm x 140 mm

TMM4500E
1.0 in x 4.0 in
25.4 mm x 101.6 mm

NOMAD 2000
1.0 in x 4.0 in
25.4 mm x 101.6 mm

NOMAD 4000
1.0 in x 4.0 in
25.4 mm x 101.6 mm

Benchmark 460
1.0 in x 4.0 in
25.4 mm x 101.6 mm

TMP1700
1.50 in x 2.50 in
38.1 mm x 63.5 mm

TMP2100
0.79 in x 1.96 in
20 mm x 50 mm

TMP4210
0.5 in x 2.0 in
13 mm x 551 mm

TMM4200
0.5 in x 2.0 in
12 mm x 50 mm

TMM4250
0.5 in x 2.0 in
12 mm x 60 mm

Floating Pin

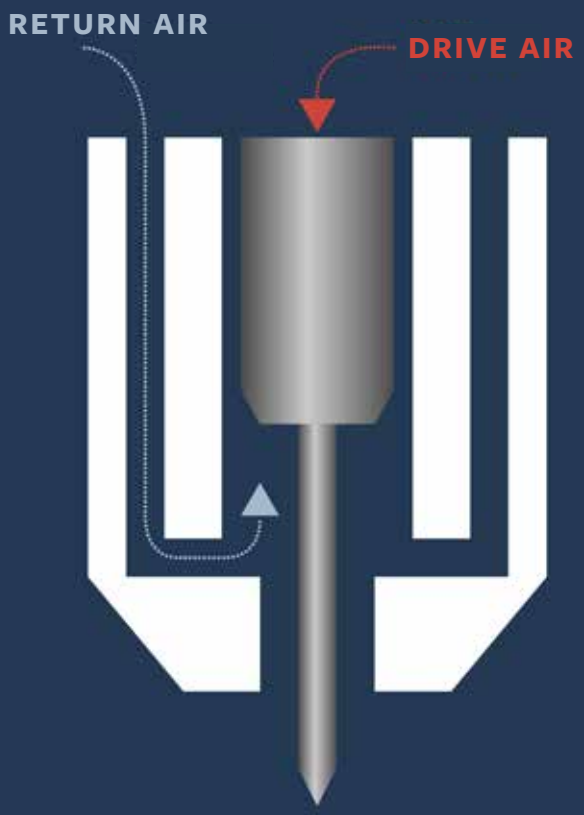
PINSTAMP® pneumatic dot peen markers contain our **revolutionary floating pin technology, developed and patented by Telesis.** This technology enables PINSTAMP® marking systems to accommodate surface irregularities up to .25 in (6 mm) and mark clearly and reliably on many types of materials.

// Give the user the ability to make adjustments to marks

// No springs to replace

// Constant positive air low keeps in chamber clean

// Achieves higher speeds



The Telesis Advantage*

What our competitors can't match.

iZONIT™ Laser Marking Vision System

Accurately and easily **establish and view mark positioning** before firing the laser

Set the mark location when the object to be marked is not visible

- Dial-indexing table enclosures
- Class 1 safety enclosures
- Remote marking operations

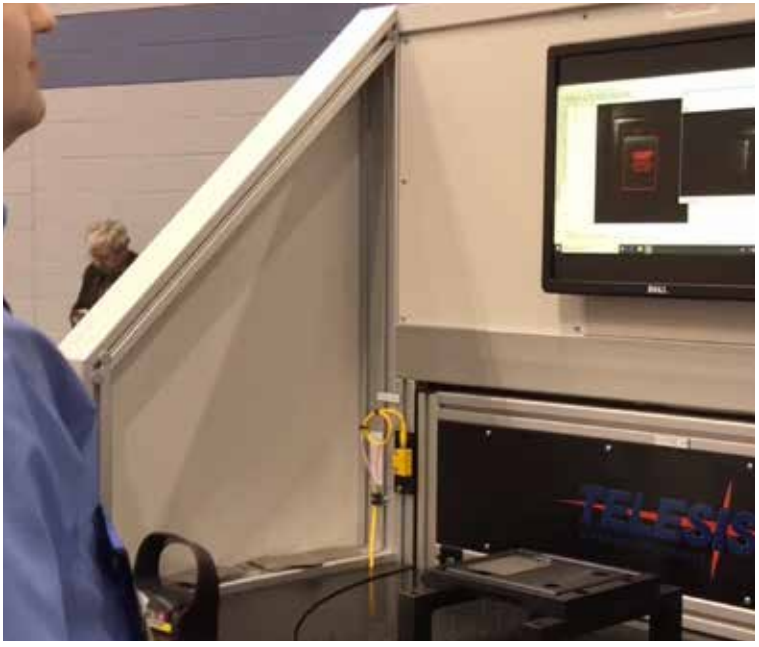
Save time and increase productivity during pattern design with a camera-assisted mark positioning system

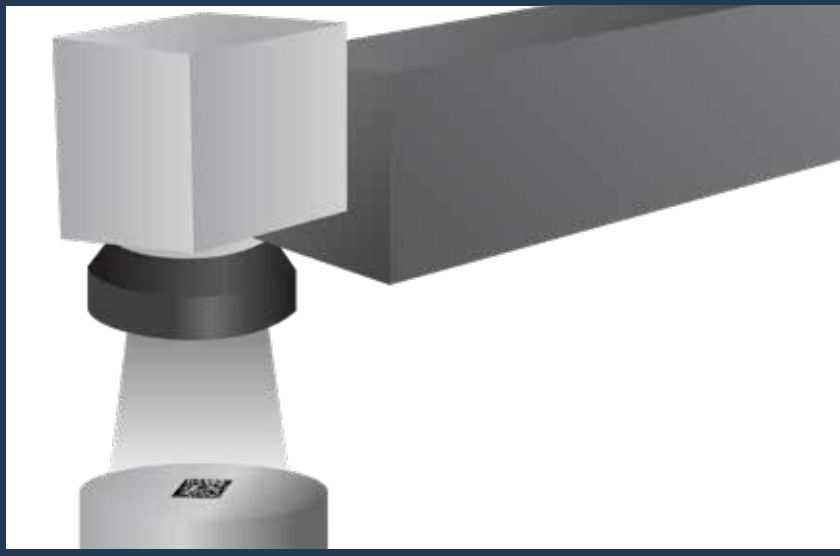
Increase throughput—especially with marking applications that involve multiple parts or a variety of parts

Immediately verify and validate data matrix 2D codes for compliance

Also available for PINSTAMP® Dot Peen Marking Systems

Teleview™





Mark // Read // Verify

// Easily Automate Quality Control

// Integrated Camera Instantly Reads Marks

// Software Quickly Analyzes Code Integrity

// Real-time Verification Eliminates Wasted Parts

// Virtually Removes Human Errors

// Great for Intricate Part Marking

TELE VIEW

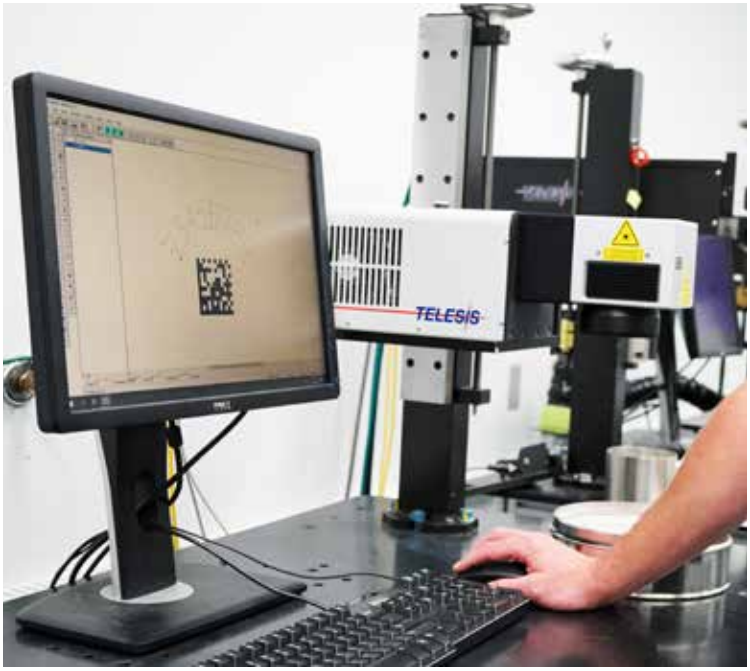
Telesis Applications Lab

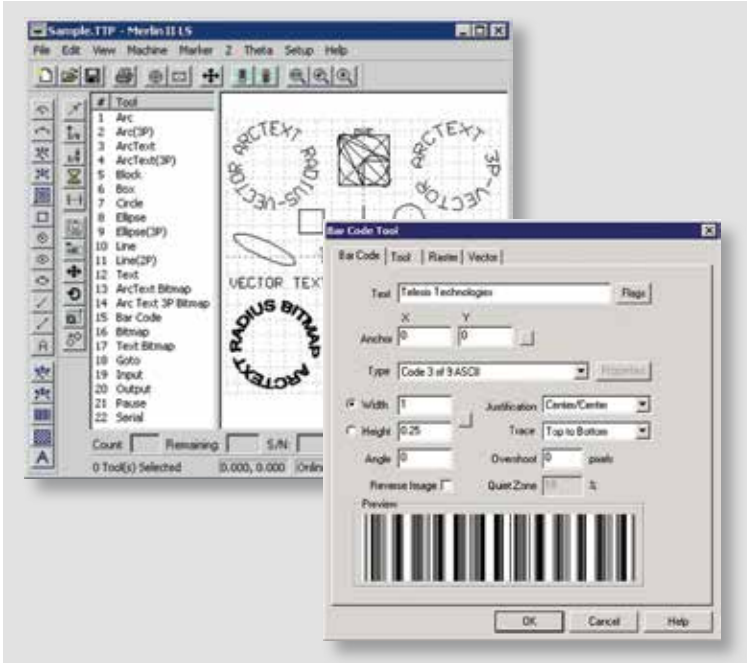
At the core of every customer interaction is the Telesis Applications Lab: **a team of marking experts dedicated to helping you purchase your equipment with confidence.**

They'll find the **most efficient and cost-effective piece of equipment** you need to make a beautiful and successful permanent mark.

Not sure what laser you need? Our team will determine what is right for you—and provide extensive recommendations—free of charge.

Merlin® Proprietary Software





Telesis Merlin® is powerful software that is capable of driving and operating all Telesis PINSTAMP® Dot Peen and Laser Marking Systems.

SAFE, EASY OPERATOR INTERFACE

Pattern design is made quick and easy with a simple interface for the creation and execution of machine- and human-readable marks. The Pattern Wizard Mode makes simple pattern design a snap even for a novice. Immediately adjust the size, location, and orientation of your mark designs.

MAKES EVERY MARK EASIER

Use Merlin® to create text strings, geometric shapes, graphics, and machine-readable data matrix symbols, alphanumeric characters, symbols, special message flags (serial numbers, times, dates, and user-defined codes), or import DXF files.

CONTROL ALL OF YOUR OPERATIONS FROM ONE SOFTWARE PLATFORM

Using Merlin® II LS, Merlin® Touch PS, and Merlin® III, your operators can maintain their comfort level and their efficiency by using the same interface across all of the Telesis Dot Peen and Laser equipment in your facility.

AUTOMATED MARKING INTERFACE

Merlin® II LS can be configured with AMI, creating a safe, easy, and operator interface: scan a barcode to load patterns, load a picture of the part and fixture, and insert the marking data in the proper field all without a keyboard—virtually mistake free.

UNEQUALED CUSTOM ENGINEERED SOLUTIONS

" The service department has been all we could ask for from a technical and assistance standpoint—a pleasure to deal with which is always an appreciated benefit. "

- Chris Shetler, PixlMediaServices, Inc.

TOTALLY TURN KEY

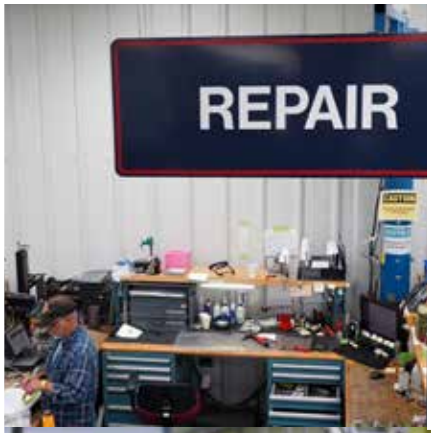
If our broad range of standard equipment doesn't suit your needs, we will **customize laser and dot peen systems to meet the most challenging production requirements.**

CUSTOM SOLUTIONS FOR

- Demanding Cycle Time
- Difficult Locations
- Automated Processes
- Mark-on-the-Fly

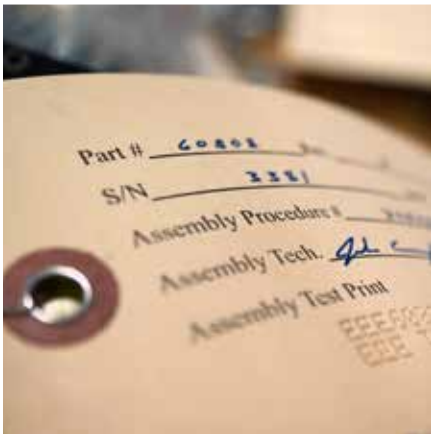
All of our systems—hardware and software—**are designed and built in-house** at our state-of-the-art R&D and manufacturing facilities.

LEGENDARY SERVICE AND SUPPORT



Careful attention to quality **ensures reliability through the life of your marking system.**

ON-SITE INSTALLATION & STARTUP



Robotics/AI/Industry 4.0

Automated marking solutions are the future of the industry. Automation makes production consistent and efficient. The reliability of **industrial automation perfectly matches Telesis' rugged and durable** products.

// Great for managing full control of Z-axis focusing as well as **rotational control and location** for the laser marking process

// **Incorporates with vision systems** to inspect the mark or to use the system for cutting or welding

// Robotics **can perform functions where humans would be in danger**, creating a much safer options for challenging tasks

// High-volume marking applications are difficult for the operator to **provide consistency and repeatability**, and could present ergonomic challenges for human workers

// Telesis robotic integration is **ideal for medical clean rooms** with no human interactions with the parts at all. The part can be picked up and inspected by the robot with **no risk of contamination**

Global Presence, Local Solutions

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