

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 CO2 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

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 crossfunctionality 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.



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Foodpack

Consumer Products

Semiconductors & **Electronics**





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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 singlephase power outlet.

Fiber



The Telesis Fiber laser marking system is 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.



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 allowedthe machine is great for marking plastics and silicon materials without additives and can mark glass with a reduced risk of microfracture. The very small high-quality beam spot makes precision micro-marking with extremely sharp resolution possible.



Green



The Telesis EV4GDS is a fibercoupled, diode-pumped, solidstate (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.



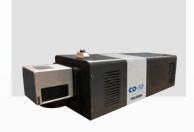
Vanadate



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 0.009

CO₂



Proven CO2 systems provide a galvo-steered beam. It is an excellent choice for heavy use and high-duty cvcle 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

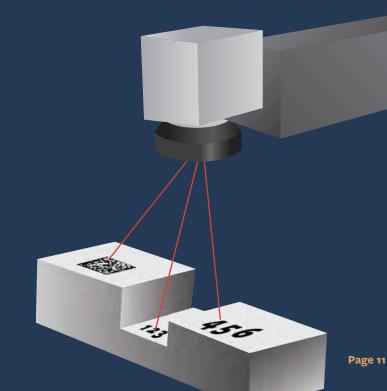
Technology Options

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.





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

M	od	el	S

F30V 30 Watt **F50V** 50 Watt **F100V** 100 Watt

Technology Options

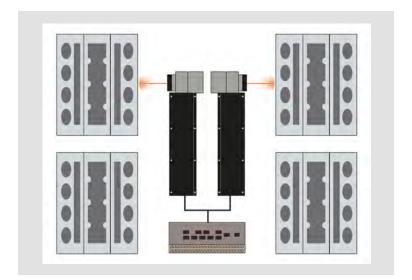
Vari-Z[™] 3-Axis 3D/AutoFocus Cognex[™] In-line Vision Mark-on-the-Fly Software

Controllers

F16I External PC
F16IE Embedded PC

Software

Proprietary Merlin® 2H





Lens Co	Lens Configurations								
Diameter	Markin		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	

19.45 in

493 mm

420 mm 11.42 in x 11.42 in 290 mm x 290 mm





Cleaner Marks in Less Time

FIBER LASER MARKING SYSTEM

Features superior beam technology

for fast and efficient marking

Contains high quality components that are ruggedly industrial and durable

Outperforms higher powered systems

Safe in non-climate controlled environments where shock, vibration, and dust are a concern



Models

F30V 30 Watt **F50V** 50 Watt **F100V** 100 Watt

Technology Options

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

Controllers

Model 6 External PC
F14A Embedded PC

Software

Proprietary Merlin® II LS

Lens Configurations Diameter Marking Area **Working Clearance** 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 6.89 in x 6.89 in 11.65 in 296 mm 254 mm 175 mm x 175 mm 330 mm 9.06 in x 9.06 in 230 mm x 230 mm 15.23 in 387 mm 9.84 in x 9.84 in 350 mm 250 mm x 250 mm 15.39 in 391 mm 11.42 in x 11.42 in 290 mm x 290 mm 19.45 in 493 mm

Dimensions





DUAL-HEAD

FIBER

VANADATE

GREEN

UV

CO₂

ENCLOSURES



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

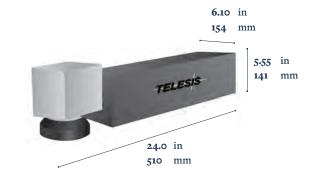




Lens Co	Lens Configurations							
Diameter	Markin	g	Area				Working	Clearance
100 mm*	2.56 in	X	2.56 in	65 mm	x	65 mm	3.82 in	97 mm
160 mm*	4.33 in	x	4.33 in	110 mm	x	110 mm	6.93 in	176 mm
160 mm	4.33 in	X	4.33 in	110 mm	x	110 mm	7.13 in	181 mm
254 mm*	6.89 in	X	6.89 in	175 mm	x	175 mm	11.65 in	296 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



DUAL-HEAD

FIBER

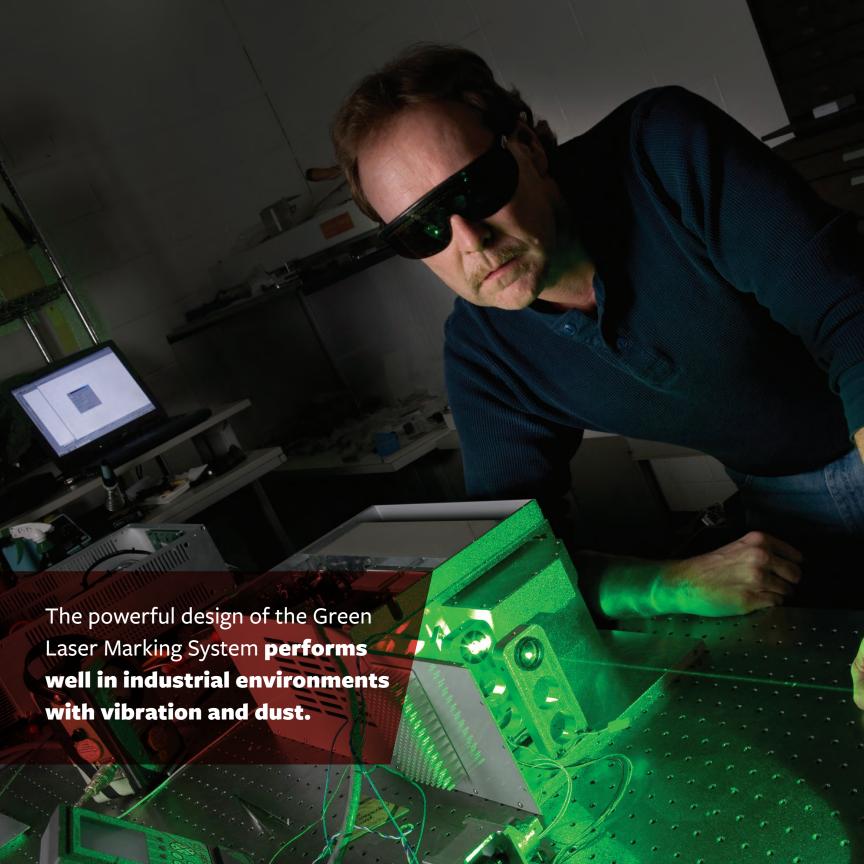
VANADATE

GREEN

UV

CO₂

ENCLOSURES



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 Clea								
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	

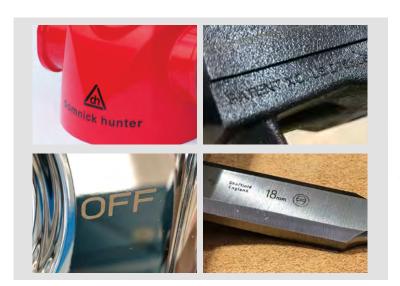
Controllers

E15 External PC

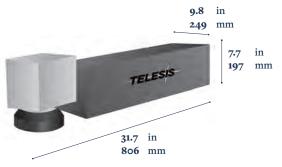
E15E Embedded PC

Software

Proprietary Merlin® II LS



Dimensions



DUAL-HEAD

FIBER

GREEN

UV CO

ENCLOSURES



Ultra-Crisp Marks on Challenging Materials

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

Marki	ng	Area				Working C	learance
5.9 in	X	5.9 in	150 mm	X	150 mm	9.409 in	239 mm

Controllers

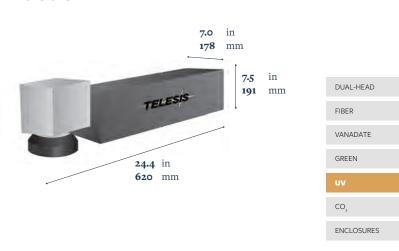
Fully Integrated

Software

Proprietary Merlin® II LS



Dimensions





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

ens	Co	nfic	ura	tio	ne
Lens	CO	NT12	tura	τισ	li E

Dimensions

Diameter	Markin	ıg A	Area				Working C	learance
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

6.69 in x 6.69 in 170 mm x 170 mm

w/o Vari-Z[™] w/ Vari-Z[™]

Controllers

External PC U15

Software

Proprietary Merlin® II LS





6.03 mm 153 w/ Vari-Z[™] 7.43 189 mm

12.36 in

314 mm

CO.

DUAL-HEAD

VANADATE

FIBER

GREEN

29.94 in 760

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ENCLOSURES



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

Controllers

Model C1830EF Embedded PC

Technology Options

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

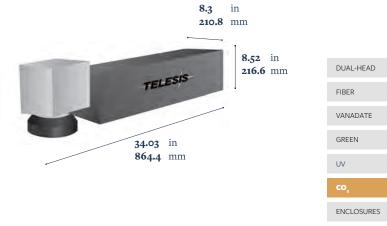
Software

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



Technical Laser Matrix

	FIBER	ULTRAVIOLET	
MODEL	F30 / F50	UVC	UV/one
MARK DESCRIPTION WAVE LENGTH AVERAGE POWER PULSE FREQUENCY	Q-SWITCHED YTTERBIUM FIBER 1060 NM UP TO 30 WATTS 30 - 120 KHZ + 50 - 120 KHZ	FIBER-COUPLED DPSS 355 NM UP TO 2 WATTS	FIBER-COUPLED DPSS 355 NM UP TO 1 WATT
POSITIONING	VISIBLE RED DIODE LIGHT	VISIBLE RED DIODE LIGHT	VISIBLE RED DIODE LIGHT
LASER HEAD (IN) (LXWXH) LASER HEAD (MM) (LXWXH) VARI-Z HEAD (IN) VARI-Z HEAD (MM) LASER HEAD WEIGHT	22.791 X 5.076 X 5.991 578.9 X 128.9 X 152.2 26.311 X 6.32 X 5.221 668.3 X 160.5 X 140.2 16.84 LBS (7.64 KG)	22.06 X 6.7 X 6.03 560 X 170 X 153 29.94 X 7.06 X 7.43 760 X 179 X 189 46 LBS (20.8 KG)	24.41 X 7.0 X 7.5 620 X 178 X 191 32 LBS (14.5 KG)
CONTROLLER CONTROLLER (IN) (LXWXH) CONTROLLER (MM) (LXWXH) CONTROLLER WEIGHT	F14A, MODEL 6, F16I 20.12 X 17.25 X 8.38 511.048 X 438.2 X 212.7 60 LBS (27.27 KG)	U15 10 X 16.74 X 5.53 254 X 425.19 X 140.46 15 LBS (6.803 KG)	Integrated
LENS OPTIONS (IN) + MARKING WINDOW	100 MM 2.56 X 2.56 160 MM 3.54 X 3.54 163 MM 4.33 X 4.33 254 MM 6.89 X 6.89 330 MM 9.06 X 9.06 350 MM 9.84 X 9.84 420 MM 11.42 X 11.42	103 MM 1.96 X 1.96 160 MM 3.15 X 3.15 250 MM 6.10 X 6.10	
LENS OPTIONS (MM) + MARKING WINDOW	100 MM 65 X 65 160 MM 90 X 90 163 MM 110 X 110 254 MM 175 X 175 330 MM 230 X 230 350 MM 250 X 250 420 MM 290 X 290	103 MM 50 X 50 160 MM 80 X 80 250 MM 155 X 155	
RESOLUTION FONT BARCODE 2D MATRIX CODE GS1 DATA BAR LOGO IMAGE MACHINE OPERATION	16-BIT (LENS DEPENDENT) VECTOR, CUSTOM, TRUETYPE YES YES YES YES MANUAL OR AUTOMATIC	16-BIT (LENS DEPENDENT) VECTOR, CUSTOM, TRUETYPE YES YES YES YES YES MANUAL OR AUTOMATIC	16-BIT VECTOR, CUSTOM, TRUETYPE YES YES YES YES YES MANUAL OR AUTOMATIC
HEAD CABLE COOLING MAX POWER CONSUMPTION	2.74 M TO 5 M AIR COOLED, FAN LESS THAN 280 WATTS	AIR COOLED LESS THAN 400 WATTS	ETHERNET CABLE AIR COOLED LESS THAN 280 WATTS
OPERATING TEMP (F) OPERATING TEMP (C) RECOMMENDED TEMP (F) RECOMMENDED TEMP (C) AMBIENT HUMIDITY	59° - 95° F 18° - 35° C 68° - 77° F 20° - 25° C 10% - 85% NON-CONDENSING	65° - 95° F 15° - 35° C 68° - 77° F 20° - 25° C 10% - 85% NON-CONDENSING	65° - 93° F 18° - 34° C 68° - 77° F 20° - 25° C 10% - 85% NON-CONDENSING
COMPLIANCE INTERFACE COMMUNICATION	CDRH, CE TCP/IP, ETHERNET/IP, PROFINET DISCRETE IO	CDRH, CE TCP/IP, ETHERNET/IP, PROFINET DISCRETE IO	CDRH, CE TCP/IP, ETHERNET/IP, PROFINET DISCRETE IO
SOFTWARE OPERATING SYSTEM DIODE WARRANTY ELECTRONICS WARRANTY	MERLIN® II LS WINDOWS® 7 OR BETTER 2 YEARS 1 YEAR	MERLIN® II LS WINDOWS® 7 OR BETTER 18 MONTHS 1 YEAR	MERLIN® II LS WINDOWS® 7 OR BETTER 1 YEAR 1 YEAR

CO ₂	VANADATE		GREEN		
CO2 • 10 / Co2 • 30	EVCDS	EV ₁₅ DS	EV40	EV4GDS	
SEALED-TUBE, CARBON DIOXIDE	FIBER-COUPLED DPSS	FIBER-COUPLED DPSS	FIBER-COUPLED DPSS	FIBER-COUPLED DPSS	
10.6 MICROMETERS (μM)	1064 NM	1064 NM	1064 NM	532 NM	
10 WATTS	UP TO 15 WATTS	UP TO 20 WATTS	UP TO 55 WATTS	UP TO 10 WATTS	
VISIBLE RED DIODE LIGHT	VISIBLE RED DIODE LIGHT	VISIBLE RED DIODE LIGHT	VISIBLE RED DIODE LIGHT	VISIBLE RED DIODE LIGHT	
34.03 X 8.301 X 8.52	24 X 6.1 X 5.55	28.3 X 6.4 X 7.5	29.3 X 8.8 X 9.3	31.73 X 9.783 X 7.44	
864.4 X 210.8 X 216.6	610 X 154 X 141	719 X 162 X 191.6	743.1 X 223.7 X 235.6	805.95 X 248.49 X 196.68	
56 LBS (25.4 KG)	32 LBS (14.5 KG)	44 LBS (20 KG)	44 LBS (20 KG)	55 LBS (25 KG)	
C18 / C18E	E ₁₅	E15	E1140	E15	
18 X 17.340 X 5.53	15.5 X 18.24 X 5.52	15.5 X 18.24 X 5.52	17.3 X 8.3 X 17.3	15.5 X 18.24 X 5.52	
457 X 440 X 140	393.7 X 437.9 X 140.2	393.7 X 437.9 X 140.2	439 X 211 X 438	393.7 X 437.9 X 140.2	
22LBS (9.98KG)	33 LBS (15 KG)	33 LBS (15 KG)	38 LBS (17.3 KG)	33 LBS (15 KG)	
100 MM 2.76 X 2.76 160 MM 4.33 X 4.33 210 MM 5.51 X 5.51 350 MM 9.84 X 9.84	100 MM 2.56 X 2.56 160 MM 4.33 X 4.33 254 MM 6.89 X 6.89 330 MM 9.06 X 9.06 420 MM 11.42 X 11.42	100 MM 2.56 X 2.56 160 MM 4.33 X4.33 163 MM 4.33 X 4.33 254 MM 6.89 X 6.89 330 MM 9.06 X 9.06 420 MM 11.42 X 11.42	100 MM 2.56 X 2.56 160 MM 3.54 X 3.54 163 MM 4.33 X 4.33 254 MM 6.89 X 6.89 330 MM 9.06 X 9.06 350 MM 9.84 X 9.84 420 MM 11.42 X 11.42	100 MM 2.17 X 2.17 160 MM 3.54 X 3.54 254 MM 6.69 X 6.69 330 MM 11.42 X 11.42	
100 MM 70 X 70 160 MM 110 X 110 210 MM 140 X 140 350 MM 250 X 250	100 MM 65 X 65 160 MM 110 X 110 254 MM 175 X 175 330 MM 230 X 230 420 MM 290 X 290	100 MM 65 X 65 160 MM 110 X 110 163 MM 110 X 110 254 MM 175 X 175 330 MM 230 X 230 420 MM 290 X 290	100 MM 65 X 65 160 MM 90 X 90 163 MM 110 X 110 254 MM 175 X 175 330 MM 230 X 230 350 MM 250 X 250 420 MM 290 X 290	100 MM 55 X 55 160 MM 90 X 90 254 MM 175 X 175 420 MM 290 X 290	
16-BIT (LENS DEPENDENT) VECTOR, CUSTOM, TRUETYPE YES YES YES YES YES MANUAL OR AUTOMATIC	16-BIT (LENS DEPENDENT) VECTOR, CUSTOM, TRUETYPE YES YES YES YES MANUAL OR AUTOMATIC	16-BIT VECTOR, CUSTOM, TRUETYPE YES YES YES YES MANUAL OR AUTOMATIC	16-BIT VECTOR, CUSTOM, TRUETYPE YES YES YES YES MANUAL OR AUTOMATIC	16-BIT VECTOR, CUSTOM, TRUETYPH YES YES YES YES YES MANUAL OR AUTOMATIC	
1.8 M	1.75 M OR 4.75 M	1.75 M OR 4.75 M	1.75 M OR 4.75 M	1.75 M OR 4.75 M	
AIR-COOLED, FANS	AIR COOLED, ACTIVE	AIR COOLED, ACTIVE	AIR COOLED, ACTIVE	AIR COOLED, ACTIVE	
LESS THAN 680 WATTS	LESS THAN 400 WATTS	LESS THAN 500 WATTS	LESS THAN 950 WATTS	LESS THAN 600 WATTS	
59°F TO 86°F	59° - 95° F	65° - 95° F	65° - 95° F	59° - 95° F	
15°C TO 30°C	15° - 35° C	18° - 35° C	18° - 35° C	15° - 35° C	
61°F TO 75°F	68° - 77° F	68° - 77° F	68° - 77° F	68° - 77° F	
16°C TO 24°C	20° - 25° C	20° - 25° C	20° - 25° C	20° - 25° C	
10% TO 90% NON-CONDENSING	10% - 85% NON-CONDENSING	10% - 85% NON-CONDENSING	10% - 85% NON-CONDENSING	10% - 85% NON-CONDENSING	
CDRH	CDRH, CE	CDRH, CE	CDRH, CE	CDRH, CE	
ETHERNET IP, PROFINET,	TCP/IP, ETHERNET/IP,	TCP/IP, ETHERNET/IP,	TCP/IP, ETHERNET/IP,	TCP/IP, ETHERNET/IP,	
TCP/IP, SERIAL	DISCRETE IO	DISCRETE IO	DISCRETE IO	DISCRETE IO	
MERLIN® II LS	MERLIN® II LS	MERLIN® II LS	MERLIN® II LS	MERLIN® II LS WINDOWS® 7 OR BETTER 2 YEARS 1 YEAR Page 27	
WINDOWS® 7 OR BETTER	WINDOWS® 7 OR BETTER	WINDOWS® 7 OR BETTER	WINDOWS® 7 OR BETTER		
1 YEAR	2 YEARS	2 YEARS	2 YEARS		
1 YEAR	1 YEAR	1 YEAR	1 YEAR		











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[™]

Why it's great

Robust, industrial, and customizable Class 1 laser
enclosure for marking large parts

Enclosure Size

 $\mathbf{W} \times \mathbf{H} \times \mathbf{D}$

40 in x **102.5** in x **40.24** in **1016** mm x **2603** mm x **1022** mm

Interior Working Area

 $\mathbf{W} \times \mathbf{H} \times \mathbf{D}$

36.5 in x **37** in x **30.25** in **927** mm x **940** mm x **768** mm

Mini ProStation[™]

Narrow and nimble Class 1 enclosure workstation **for challenging space constraints**

27.5 in x **71.3** in x **35.4** in **698** mm x **1811** mm x **899** mm

26.5 in x **36.5** in x **24.5** in **673** mm x **927** mm x **622** mm

DUAL-HEAD

FIBER

VANADATE

GREEN

UV CO

ENCLOSURES

Class 1 Laser Enclosures



// 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

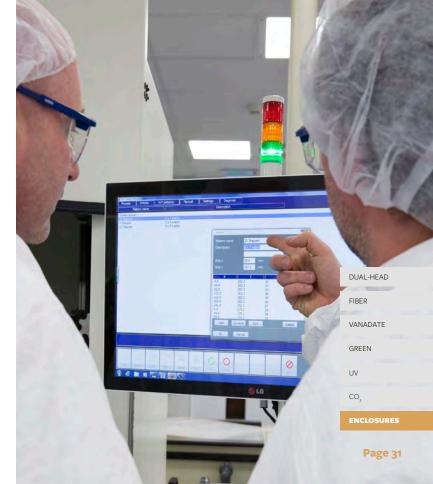
// PRECISION IN MIND

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







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

- Jeremy Tincher, Smith & Nephew

PINSTAMP® 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)	o.o76 - o.3o5 mm	o.o3 - o.33 mm	o.o3 - o.33 mm	o.o3 - o.33 mm	o.o3 - o.45 mm	Varies
Max Character Height (in)	1.5 in	0.79 in	4.0 in	o.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	Fixed Button (TMC470)	Fixed Button (TMC470)	Fixed Button (TMC470)	Fixed Button (TMC470)	Fixed Button (TMC470)	Fixed Button (TMC470)
	Touch Screen (TMC520)	Merlin III w/ PC	Merlin III w/ PC	Merlin III w/ PC	Touch Screen (TMC520)	Merlin III w/ PC
	Merlin III w/ PC				Merlin III w/ PC	

MULTI-PIN DOT PEEN MARKERS PORTABLE DOT PEEN MARKERS •••••• TMM4200 TMM4250 TMP4500E Nomad 2000 Nomad 4000 A unique, compact Ideal for online A powerful piece of The Nomad 2000 The Nomad 4000 ergonomic multi-pin hand-held equipment, is a fully portable, is a fully portable, applications in wet, marker is incredibly fast. dirty manufacturing this marker eliminates rechargeable, batteryrechargeable, with more environments. the need for air. powered system. power than the 2000. **Constrained Space** Wet Environments **Does Not Require Air Rechargeable Battery Makes Deep Marks** Comfortable Grip **Fixtured Applications** Makes Deep Marks Can Go Anywhere Can Go Anywhere Makes Quick Marks For Constrained Space Easy to Hold Does Not Require Air 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 4 characters / second 2 characters / second 8 Characters / second 8 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 o.o3 - o.33 mm o.o3 - o.33 mm o.o3 - o.46 mm 0.03 - 0.25 mm o.o3 - o.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 No Yes No No No No No No No No Yes Yes No No No

Handheld Standard

Nomad Controller

Electric Only

Handheld Standard

Nomad Controller

Electric Only

Handheld Standard

Fixed Button (TMC470)

Merlin III w/ PC

No

Handheld Standard

Fixed Button (TMC470)

Merlin III w/ PC

No

Handheld Standard

Fixed Button (TMC470)

Electric Only

Merlin III w/ PC

BenchMark[®]

ENTRY LEVEL DOT PEEN MARKERS

BenchMark® 200



BenchMark® 320



BenchMark® 460



An entry-level system An entry-level machine An entry-level fully **Features** with extruded aluminum good for bench-top programmable machine applications and standgreat for portable marking head mounting post and base alone marking. marking. **Smaller Budgets Smaller Budgets Smaller Budgets** What it's Good For Does Not Require Air Does Not Require Air Does Not Require Air **Great Value** Great Value Great Value 4.0 in x 6.0 in 1.0 in x 4.0 in Marking Window (in) 4.0 in x 4.0 in 101 mm x 152.4 mm Marking Window (mm) 101 mm x 101 mm 25 mm x 101 mm 3 characters / second **Max Marking Speed** 3 characters / second 3 characters / second 0.001 - 0.010 in 0.001 - 0.018 in 0.001 - 0.010 in Marking Depth (in) o.o3 - o.46 mm Marking Depth (mm) 0.03 - 0.25 mm 0.03 - 0.25 mm 4.0 in 4.0 in 1.0 in Max Character Height (in) Max Character Height (mm) 101.6 mm 101.6 mm 25.4 mm 80 dpi 75 dpi 8o dpi **Max Resolution** Yes Yes Yes Logo Marking Capable Yes Yes Yes 2D Code Marking Capable **Radial Marking Capable** No Yes No No No No Programmable Z-Axis No No No Floating Pin Technology **Maximum Number of Pins** Mounting **Fixtured Standard Fixtured Standard** Handheld Standard **Electric Only Electric Only Electric Only** Available in Electric Fixed Button (BM470) Controllers Available Fixed Button (BM470) Fixed Button (BM470) Touch Screen (TMC520) Touch Screen (TMC520) Touch Screen (TMC520) Merlin III w/ PC

50990*>*>

Depth >>

Flexibility >>

Meeting Every Challenge

THE WORLD'S **FASTEST DOT PEEN MARKER**

Speed up to 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.



Depths up to .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



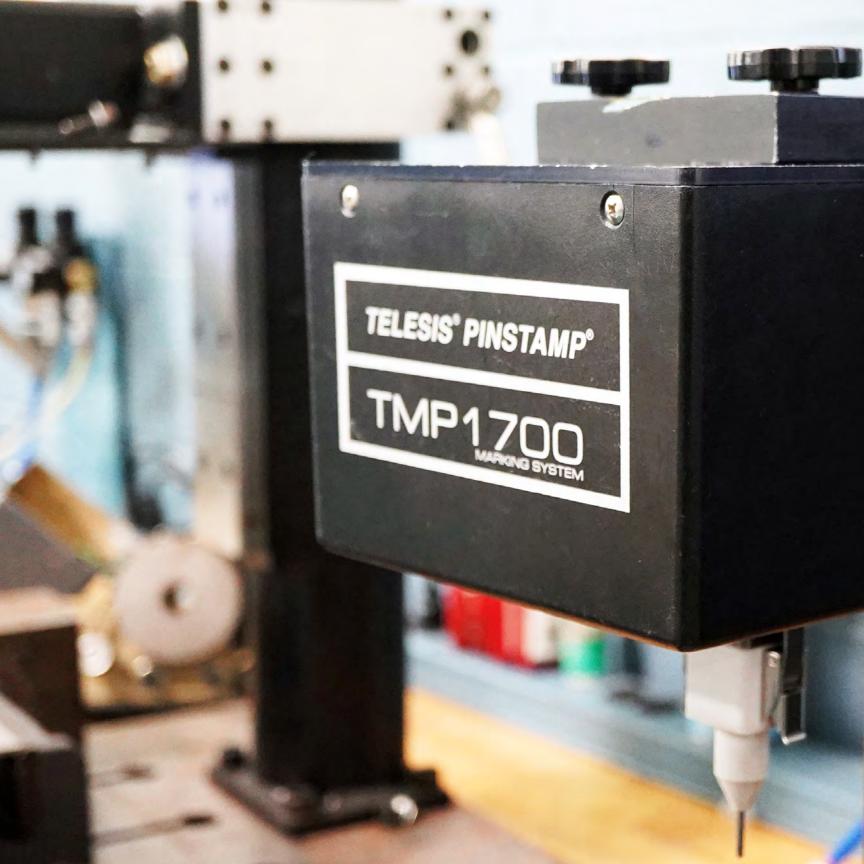
Rotary Chuck



Programmable Z-Axis



iZONITTM



The Proven Industrial Workhorse

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)



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

Fixed Button (TMC470) Touch Screen (TMC520) PC with Merlin® III

Proprietary Merlin® III (optional)





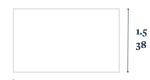
Options and Accessories

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

in

mm

Marking Window



2.5 mm

Marking Specifications

Max Character **Depth** 0.003 in 0.76 mm

Max Character Height 1.5 in 38.1 mm

Characters per Second

Resolution 200 dpi







A Large Marking Window

TMP3200

Simple yet robust belt-driven dual rail

X/Y platform yields high-quality characters

Rugged design means long-lasting, lowmaintenance 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)



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

Controllers

Fixed Button (TMC470) Touch Screen (TMC520) PC with Merlin® III

Proprietary Merlin® III (optional)

Software



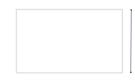
Options and Accessories

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

4.0 in

101.6 mm

Marking Window



6.0 in **152.4** mm

Marking Specifications

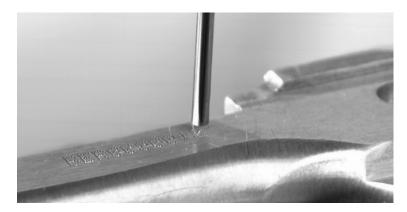
Max Character **Depth** 0.013 in 0.33 mm

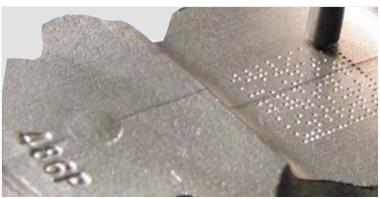
Max Character Height

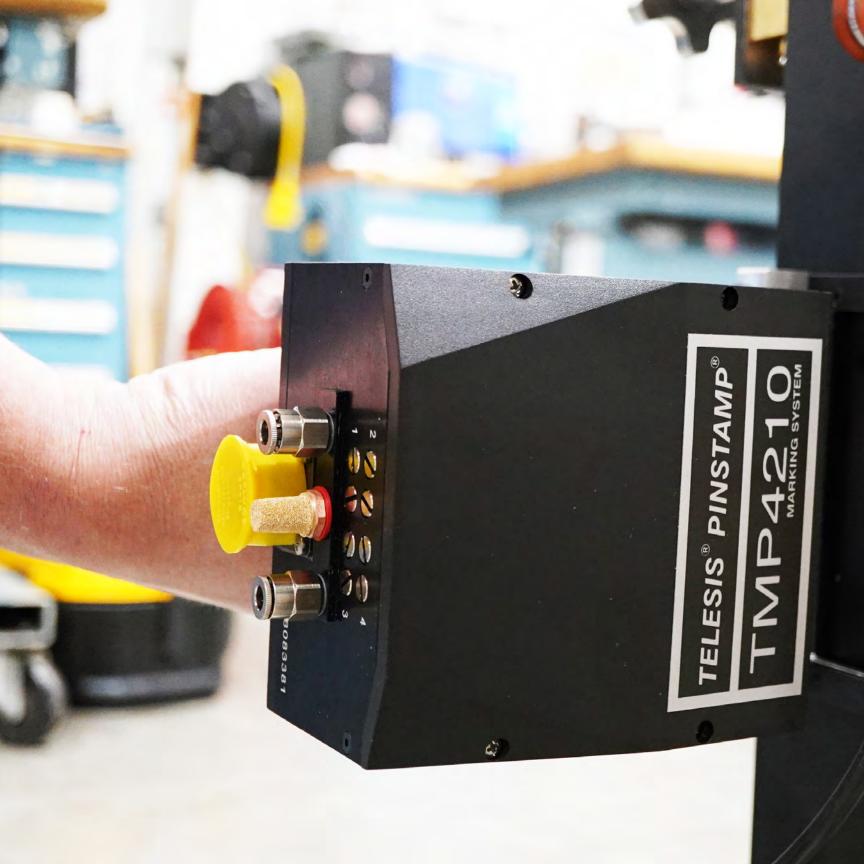
4.0 in 101.6 mm

Characters per Second

Resolution 200 dpi







Lightweight and Compact Handheld

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

Controllers

Fixed Button (TMC470)
Touch Screen (TMC520)
PC with Merlin® III

Software

Proprietary Merlin® III (optional)

Options and Accessories

Quick-Disconnect tool post Multi-Strike Panel-mount and IP/NEMA-rated controllers Easy and free software upgrades

Marking Window



Marking Specifications

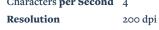
 Max Character **Depth** 0.013 in

 0.3 mm

 Max Character **Height** 0.5 in

 12.7 mm

 Characters **per Second** 4









Robotic Design for Precise Marks

TMP6100 (TMP6100EAS)

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



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

Fixed Button (TMC470)

Software

Proprietary Merlin® III (optional)



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



12.0 in 30 mm

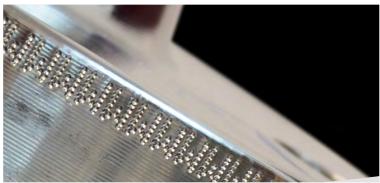
Marking Specifications

Max Character **Depth** Varies
Max Character **Height** 6 in

152.4 mm

Characters **per Second** 2 **Resolution** 200 dpi





PINSTAMP® 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 FEATURES







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





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



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









PINSTAMP® Marking Windows Comparison

P6100	
n x 12.0 in	
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





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Merlin® Proprietary Software	Page 55
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Robotics/Al Integration	Page 58

*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 cameraassisted mark positioning system

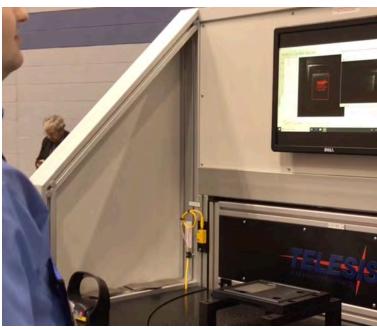
Increase throughput—especially with marking applications that involve multiple parts or a variety of parts

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



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.

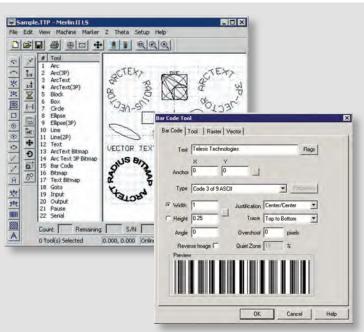
They'll find the most efficient and costeffective piece of equipment you need to make a beautiful and successful permanent mark.

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



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.



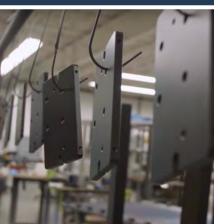
TOTALLY TURN KEY







- ✓ 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 in
California and Ohio, USA.



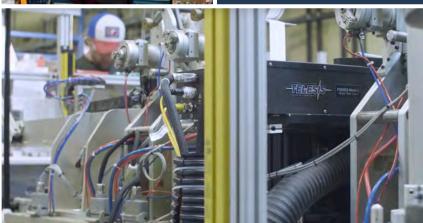
LEGENDARY SERVICE AND SUPPORT





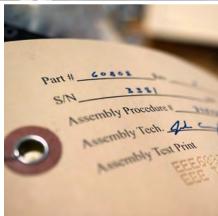
Careful attention to quality ensures reliability through the life of your marking system.





ON-SITE INSTALLATION & STARTUP





Robotics/Al/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 erognomic 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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TELESIS WORKS EVERY DAY TO WOW OUR CUSTOMERS AT EACH STEP

OF THEIR PERMANENT MARKING AND TRACEABILITY JOURNEY

TO DO THIS, WE DELIVER
THE ULTIMATE CUSTOMER EXPERIENCE,

CREATE ROBUST, SOLID, LONG-LASTING PRODUCTS

AND PROVIDE ©XP©RTEND-TO-END SOLUTIONS