DOT PEEN GUIDE

SINGLE-PIN PINSTAMP® DOT PEEN MARKERS

MULTI-PIN PINSTAMP® DOT PEEN MARKERS

PORTABLE PINSTAMP® DOT PEEN MARKERS

PINSTAMP® CONTROLLERS

BENCHMARK® DOT PEEN MARKERS

TELESCRIBE® MARKING SYSTEMS

VISION TECHNOLOGIES FOR DOT PEEN





Telesis has been the innovator in dot peen marking technology for decades. Everything else is an imitation.

THE WORLD'S FASTEST DOT PEEN MARKER

Our PINSTAMP® dot peen markers have multiple pins to complete marks more quickly. From 2 pins to 8 pins, more pins means more speed.



Telesis dot peen markers feature revolutionary technology that accommodates extreme surface irregularities, reduces cost of ownership, and achieves faster speeds.

MULTI-STRIKE

The Telesis-exclusive Multi-Strike feature fires the pin multiple times, resulting in a deeper mark.



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SINGLE-PIN PINSTAMP® DOT PEEN MARKERS

TMP1700

TMP2100

	TMH700		TOPOSICO				
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	o.o3 - o.33 mm	o.o3 - o.33 mm	o.o3 - o.33 mm	0.03 - 0.45 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		

TMP3200

TMP4210

TMP4750

TMP6100

The Proven Industrial Workhorse







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 (rc6o)

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

Marking Window



1.5 in38 mm

2.5 in 63 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

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

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

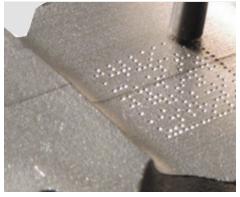
Software

Proprietary Merlin® III (optional)

A Large Marking Window







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 (rc6o)

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

Marking Window



4.0 in **101.6** mm

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

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

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

Software

Proprietary **Merlin**[®] **III** (optional)

Lightweight and Compact Handheld







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

Marking Window

		0.5	in
		13	mm
2.0	in		

Marking Specifications

Max Character **Depth** 0.013 in

12.7 mm

Characters **per Second** 4 **Resolution** 200 dpi

Options and Accessories

Quick-Disconnect tool post Multi-Strike

Panel-mount and IP/NEMA-rated controllers

Easy and free software upgrades

Controllers

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

Software

Proprietary **Merlin**[®] **III** (optional)

- Bud Nelson, Acutec Precision



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

Marking Window



12.0 in 30 mm

Marking Specifications

Max Character **Depth** Variety Max Character **Height** 6 in

152.4 mm

Characters per Second 2

Resolution 200 dpi

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

Controllers

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

Software

Proprietary **Merlin**[®] **III** (optional)

TMM4200

TMM4215

•	
•	
1	

RS				The state of the s		THEORY POLITICAL TO THE	
	Features What it's Good For	A unique, compact ergonomic multi-pin marker is incredibly fast. Constrained Space Comfortable Grip Makes Quick Marks	A unique, compact ergonomic multi-pin marker is incredibly fast. Constrained Space Comfortable Grip Makes Quick Marks	Ideal for online applications in wet, dirty manufacturing environments. Wet Environments Fixtured Applications For Constrained Space	Equipped with six marking pins, the TMM5100 is a lightweight and compact dot peen marker. Fast Marking Compact Envelope Great for VIN marking	Equipped with eight marking pins, the TMM5400 is the fastest dot peen marker available Super Fast Marking Compact Envelope Optimizes Cycle Time	
	Marking Window (in) Marking Window (mm) Max Marking Speed Marking Depth (in) Marking Depth (mm) Max Character Height (in) Max Character Height (mm) Max Resolution	0.5 in x 2.0 in 12.7 mm x 50.8 mm 8 Characters / second 0.001 - 0.013 in 0.03 - 0.33 mm 0.5 in 12.7 mm 200 dpi	0.5 in x 4.0 in 12.7 mm x 100 mm 4 Characters / second 0.001 - 0.013 in 0.03 - 0.33 mm 0.5 in 12.7 mm 200 dpi	0.5 in x 2.0 in 12.5 mm x 60.8 mm 8 Characters / second 0.001 - 0.013 in 0.03 - 0.33 mm 0.5 in 12.7 mm 200 dpi	0.625 in x 4.5 in 16 mm x 114 mm 6 characters / second 0.003 - 0.013 in 0.03 - 0.33 mm 0.625 in 16 mm 200 dpi	0.5 in x 3.78 in 13 mm x 96 mm 16 characters / second 0.003 - 0.013 in 0.03 - 0.33 mm 0.5 in 13 mm 200 dpi	
	Logo Marking Capable 2D Code Marking Capable Radial Marking Capable Programmable Z-Axis	Yes Yes No	Yes Yes No	Yes Yes Yes No	No No Yes Yes	No No Yes Yes	
	Floating Pin Technology Maximum Number of Pins Mounting Available in Electric	Yes 4 Handheld Standard Fixtured Optional No	Yes 2 Handheld Standard Fixtured Optional No	Yes 4 Handheld Standard Fixtured Optional No	Yes 6 Fixtured Standard Handheld Optional No	Yes 8 Fixtured Standard Handheld Optional No	
	Controllers Available	Fixed Button (TMC470) Merlin III w/ PC	Fixed Button (TMC470) Merlin III w/ PC	Fixed Button (TMC470) Merlin III w/ PC	Fixed Button (TMC470) Merlin III w/ PC	Fixed Button (TMC470) Merlin III w/ PC	

TMM4250

TMM5100

TMM5400

World's Fastest Dot Peen Marker







PINSTAMP® TMM5400

Super fast dot peen marker uses an 8-pin design to mark 16 characters per second

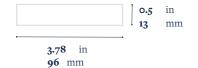
Extremely **compact marking head for easy integration** into factory-automated applications

Multiple marking pin cartridge configurations available to optimize marking window size/cycle time combinations

Additional Features

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

Marking Window



Marking Specifications

Max Character **Depth** Varies

Max Character **Height** 0.5 in
13 mm

Characters **per Second** 16 **Resolution** 200 dpi

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

Controllers

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

Software

Proprietary Merlin® III (optional)





Nomad 2000

Nomad 4000







Features	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 mo power than the 2000.
What it's Good For	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
Marking Window (in)	1.0 in x 4.0 in	1.0 in x 4.0 in	1.0 in x 4.0 in
Marking Window (mm)	25.4 mm x 101.6 mm	25.4 mm x 101.6 mm	25.4 mm x 101.6 mm
Max Marking Speed	4 characters / second	2 characters / second	2 characters / second
Marking Depth (in)	0.001 - 0.018 in	0.001 - 0.010 in	0.001 - 0.018 in
Marking Depth (mm)	0.03 - 0.46 mm	0.03 - 0.25 mm	o.o3 - o.46 mm
Max Character Height (in)	1.0 in	1.0 in	1.0 in
Max Character Height (mm)	25.4 mm	25.4 mm	25.4 mm
Max Resolution	8o dpi	8o dpi	8o dpi
Logo Marking Capable	Yes	Yes	Yes
2D Code Marking Capable	Yes	Yes	Yes
Radial Marking Capable	No	No	No
Programmable Z-Axis	No	No	No
Floating Pin Technology	No	No	No
Maximum Number of Pins	1	1	1
Mounting	Handheld Standard	Handheld Standard	Handheld Standard

Electric Only

Nomad Controller

Electric Only

Nomad Controller

Available in Electric

Controllers Available

Electric Only

Merlin III w/ PC

Fixed Button (TMC470)





BenchMark® 320

BenchMark® 460









Features

What it's Good For

An entry-level system with extruded aluminum marking head mounting post and base

4.0 in x 4.0 in

101 mm x 101 mm

0.001 - 0.010 in

3 characters / second

alone marking. **Data Plate Marking**

4.0 in x 6.0 in

An entry-level machine

applications and stand-

good for bench-top

An entry-level fully programmable machine great for portable marking.

Data Plate Marking **Large Parts Workshop Application Small Volume Operations** Complex Geometry **Property Marking** VIN Marking Remote Operations

Marking Window (in) Marking Window (mm) **Max Marking Speed** Marking Depth (in) Marking Depth (mm) Max Character Height (in)

Max Character Height (mm) **Max Resolution**

0.03 - 0.25 mm 4.0 in 101.6 mm 80 dpi

101 mm x 152.4 mm 3 characters / second 0.001 - 0.018 in o.o3 - o.46 mm 4.0 in 101.6 mm 75 dpi

1.0 in x 4.0 in 25 mm x 101 mm 3 characters / second

0.001 - 0.010 in

0.03 - 0.25 mm 1.0 in

> 25.4 mm 80 dpi

Yes

Yes

No

No

No

Logo Marking Capable 2D Code Marking Capable

Radial Marking Capable

Programmable Z-Axis

Floating Pin Technology

Maximum Number of Pins

No No

No

Yes

Yes

No

No

Yes

Yes

Yes

Fixtured Standard

Handheld Standard

Electric Only Electric Only

Controllers Available

Available in Electric

Mounting

Fixed Button (BM470)

Fixtured Standard

Electric Only

Touch Screen (TMC520)

Fixed Button (BM470)

Touch Screen (TMC520) Merlin III w/ PC

Fixed Button (BM470)

Touch Screen (TMC520)





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 the design exactly how it 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 creation

Ethernet IP and Profinet capable

TMC520 FEATURES









Dot Peen Accessories

Barcode Scanner

Adding a barcode scanner to your system allows **quick code-based upload and change of pattern** designs. Additionally, it can test and verify completed marks.



AutoSense

AutoSense **automatically calibrates and sets the pin distance,** elminating need for guess work and allowing quick setup of the machine. Available on select models.



Rotary Chuck

Rotary chucks are made for **programmable marking around the circumference or along the axis of round parts** by rotating the part in sync with the marking pin.



Programable Z-Axis

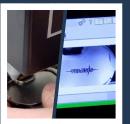
Programmable marking system **can mark parts in multiple locations on the Z axis, including in recessed areas.** Ideal for use in factory automation settings.

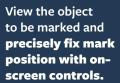


Fixtures

Item-holding fixtures can be designed to **adjust, accommodate, and hold different size items**, tags, and nameplates while the engraving is executed.

VISION FOR PINSTAMP® MARKERS







Higher degree of mark positioning precision—especially when marking smaller parts having diameters of less than a quarter of an inch.



Eliminate trial-anderror / jog-andview positioning processes by putting "eyes on it"



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



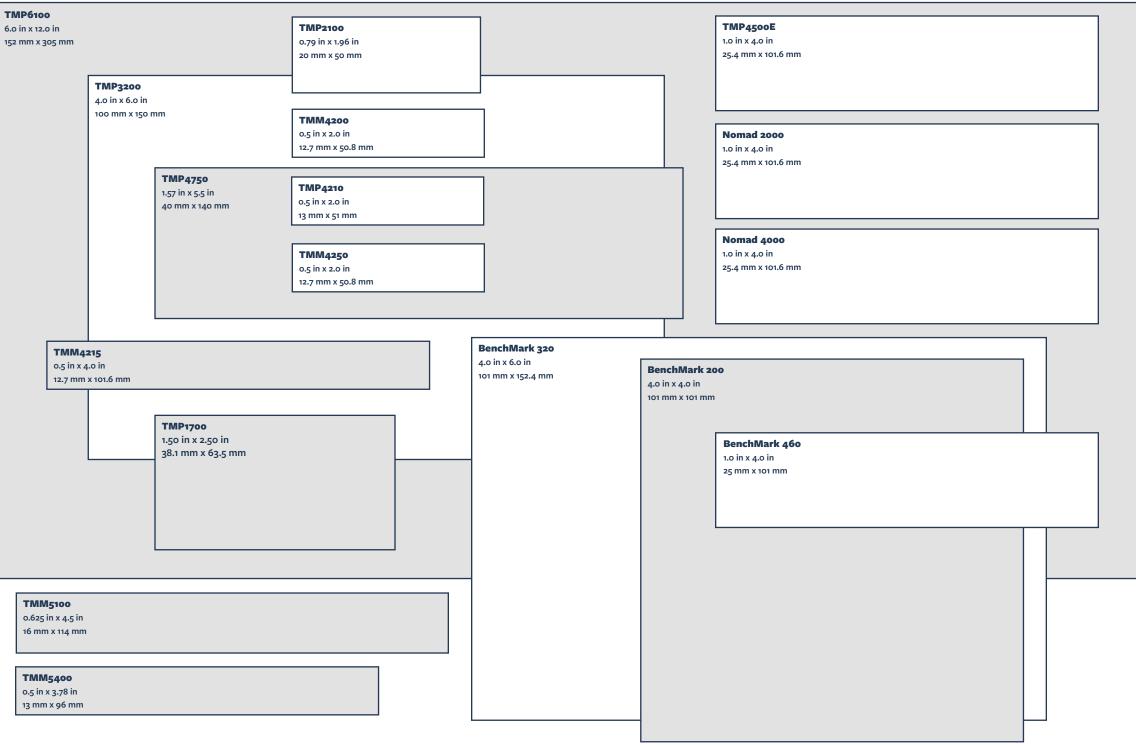
Increase
throughput—
especially with
marking applications
that involve multiple
parts or a variety of
parts immediately
verify and validate
data matrix 2D codes



Provides greater consistency in meeting the quality requirements of rigorously demanding clients by eliminating operator-dependent variabilities

*Actual Size

Marking Windows*



Deep Marking

PINSTAMP® TMP7000 and PINSTAMP® TMM7200

Robust markers like the TMP7000 and TMM7200 create extra deep marks up to .22 in (.5588 mm).

The markers are well suited for truck frame VIN marking and 2D matrix code for traceability.

Good for heavy duty manufacturing industries requiring deep marking on pipes, molds, and steel castings.









TMP7000 Marking Window



4.0	in
100	mm

6.0 in **150** mm

Marking Specifications

Max Character **Depth** .22 in .5588 mm Max Character Height varies Characters per Second varies Resolution 200 dpi

Controllers

Fixed Button (TMC470) PC with Merlin® III

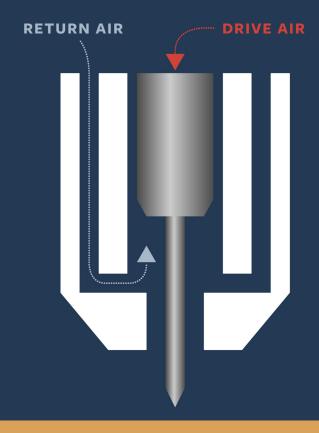
Software

Proprietary Merlin® III (optional)

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



TELESCRIBE® SCRIBE MARKERS 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



SC2000

SS3700

SC5000

SC6000VIN









The SC2000 is a great low-noise compact marker for continuous marking of human-readable characters and symbols The SS3700 is expertly designed with a large marking window and creates deep, quick marks with a servo-driven motor A powerful scribe marker, the heavy duty SC5000 has a large marking window and can create extra deep and wide marks A scribe marker specifically designed to mark VINs, the heavy duty SC6000VIN exceeds deep marking regulations and requirements

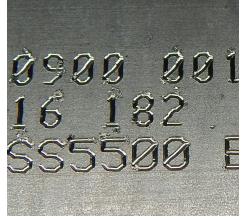
Marking Window 2.95 in x 1.57 in (75 mm x 40 mm) Marking Window 2 in x 6 in (50.8 mm x 152.4 mm) Marking Window 2.5 in x 7.5 in (63 mm x 190 mm) Marking Window 1.18 in x 6.5 in (30 mm x 165.1 mm)

Marking Speed .125 in (3 mm) character up to 2 characters/second Marking Speed .276 in (7 mm) character up to 4 characters/second Marking Speed .125 in (3 mm) character up to 2 characters/second Marking Speed .18 in (4.5 mm) character up to 2.0 characters/ second









UNEQUALED **CUSTOM** ENGINEERED **SOLUTIONS**



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



TOTALLY TURN KEY





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



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.





CUSTOM SOLUTIONS FOR

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

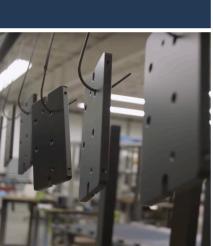


REPAIR

ON-SITE INSTALLATION & STARTUP







FREE SAMPLE MARKS AVAILABLE FROM THE TELESIS APPLICATION LAB



WORLDWIDE SALES & SERVICE

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