

PUNCH MARKING

RECIPROCATING IMPACT MARKER



PUNCH MARKING

PRECISION MARKING WITH PNEUMATIC POWER

Messer's Pneumatic Punch Marker is engineered to deliver precise, impact-style impressions directly onto metal surfaces, providing an ideal solution for marking layout lines, hole locations, contours, and characters. Designed specifically for materials 6 mm or thicker, this rugged system is perfect for demanding industrial environments where visibility, durability and accuracy are critical

KEY FEATURES

Air-Driven Reciprocating Punch

Utilizes compressed air to drive a high-strength marking pin, creating consistent and reliable marks

Clear, Durable Markings

Leaves visible physical impressions that resist removal and remain clear even in harsh conditions

Capacitive Height Sensor

Maintains optimal marking height automatically

Robust Marking Pin

Equipped with a 6.75 mm diameter high-carbon steel pin, ground to a 120° angle for sharp, well-defined impressions

Punch with Spring Retraction

Ensures consistent marking force and reliability, even in high-volume applications

Versatile Application

Effective for layout lines, drilled hole centers, and even character marking through rust or surface scale

Easy Maintenance

The hardened, ground tip is designed for quick removal making replacements or regrinding hassle-free

Optimized Standoff Distance

Operates at a 6 mm standoff with a ± 4.8 mm tolerance, accommodating natural variations in plate surfaces with ease

High-Speed Operation – 4000 BPM

Delivers up to 4000 blows per minute for efficient and precise line marking at production speeds

Note:

The sensor is sensitive to water on the plate surface

PUNCH MARKING

TECHNICAL DATA

Operating Principle

High-speed reciprocating punch, powered by compressed air and retracted by a spring, to mark layout lines, hole locations, and even characters.

Specification	Details
Quality of compressed air	Cleaned compressed air (free of water, oil, and dirt)
Feed speed	6 meters per minute
Marking type	Point and line punch marking
Maximum marking depth	3 mm
Max depth of impression	2.54 mm (dependent on marker tip condition)
Cone diameter (at the top workpiece plane)	20 mm
Punching frequency	4,000 punches per minute
Cone angle	120°
Punch marking tool distance from workpiece	4 mm
Compressed air pressure	4 bar
Marking pattern at <2.54 meters/min	Overlapping impressions create solid lines
Marking pattern at 6.35 meters/min	Dotted line with approximately 0.71 mm



APPLICATION

- Structural Steel Fabrication
- Shipbuilding & Offshore Fabrication
- Heavy Equipment Manufacturing
- Railway & Bridge Construction
- Metal Fabrication
- Automotive Fabrication
- Pipe & Tank Fabrication
- CNC Fabrication Shops





CREATING SOLUTIONS BEYOND MACHINES

What we stand for

PRODUCT

Messer Cutting Systems is a global supplier of cutting edge technology for the metalworking industry.

AUTOMATION

With over 900 employees worldwide in over 50 countries, we maintain a constant dialogue with our customers to achieve sustainable user-oriented innovation.

DIGITAL

SERVICES

KNOW-HOW

Our portfolio embraces the themes PRODUCT, DIGITAL, SERVICES, AUTOMATION and KNOW-HOW. We will live up to our claim “creating solutions beyond machines” not just with the most modern cutting systems and solutions for oxyfuel technology.

Appropriate services and training, our own software applications as well as the integration of solutions from our technology partners, e. g. in the field of automation, complete the machine to give forward-looking total solutions.

Our know-how combined with our customer-oriented attitude and actions have made us the worldwide partner of choice for innovative total solutions on all aspects of cutting systems for over 120 years.

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