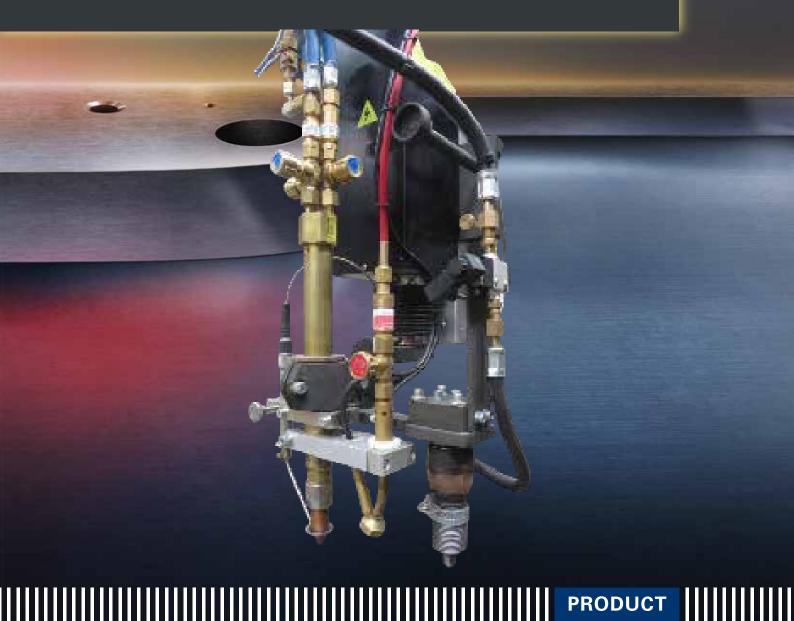


## **PUNCH MARKING**

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



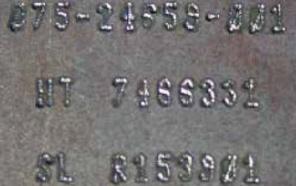
# PUNCH MARKING

## **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	875
Quality of compressed air	Cleaned compressed air (free of water, oil, and dirt	50.00
Feed speed	6 meters per minute	50 8
Marking type	Point and line punch marking	(8)
Maximum marking depth	3 mm	96
Max depth of impression	2.54 mm (dependent on marker tip condition)	APF
Cone diameter (at the top workpiece plane)	20 mm	Struct
Punching frequency	4,000 punches per minute	• Shipb
Cone angle	120°	Heavy Railwa
Punch marking tool distance from workpiece	4 mm	Metal
Compressed air pressure	4 bar	• Autom
Marking pattern at <2.54 meters/min	Overlapping impressions create solid lines	• Pipe 8
Marking pattern at 6.35 meters/min	Dotted line with approximately 0.71 mm	• CNC F



## **APPLICATION**

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





## PRODUCT AUTOMATION **DIGITAL SERVICES**

**KNOW-HOW** 

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

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

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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