



THERMAL METAL SYSTEM

# TMC1 THERMO WELDER

## Thermal metal coating system

Add surface restoration capability.  
For wheel repair and refinishing businesses.



## Restore surfaces. Expand capability.

Metal-powder deposition for suitable non-structural surface defects and protective coating applications.

[precisionwheelequipment.com](http://precisionwheelequipment.com)

## THE TECHNOLOGY

# Build up the surface.

A specialist metal-powder process for suitable restoration and protective coating work.



## Surface build-up before machining

The TMC1 heats suitable metal powder and uses compressed air to deposit it onto a prepared component. For appropriate diamond-cut wheel repairs, this builds up cosmetic surface damage before CNC machining. It adds material through deposition rather than TIG fusion welding.

### Surface restoration capability

The manufacturer describes applications on steel, aluminium and copper components, plus zinc anti-corrosion coating. Match the powder and process to the substrate and intended finish.

## DIAMOND-CUT WHEEL RESTORATION

# Build up. CNC cut. Refinish.

For wheel repairers restoring suitable cosmetic damage before diamond-cut machining.

**01**

## Build up cosmetic damage

Wheel repairers use thermal metal deposition to build up suitable damaged areas on diamond-cut wheels before CNC machining. Confirm repair suitability, preparation and powder compatibility.

**02**

## Machine the restored profile

After application and inspection, CNC machine the built-up area as part of the wheel-face restoration process. Follow the approved limits for the wheel and coating system.

**03**

## Aim for a visually blended finish

The aim is a clean machined appearance that blends with the surrounding face after refinishing. Porosity and repair visibility depend on materials, preparation and technique; neither is guaranteed.

### Know the process limits

TMC1 is designed for non-structural surface filling and coating. Structural joining and wheel crack repairs require a separate, suitable repair process. Assess every component before selecting the method.

## TECHNICAL OVERVIEW

# Compact equipment. Clear requirements.

Manufacturer specifications for the TMC1 thermal metal coating system.



|                      |                                |
|----------------------|--------------------------------|
| Model                | <b>TMC1</b>                    |
| Rated power          | <b>3,500 W</b>                 |
| Voltage              | <b>230 V</b>                   |
| Maximum temperature  | <b>600 degrees C</b>           |
| Air pressure         | <b>5-8 bar</b>                 |
| Air flow             | <b>0.45 m3/min (450 L/min)</b> |
| Dimensions A x B x C | <b>400 x 300 x 220 mm</b>      |

Dimensions follow the manufacturer's A/B/C labels. Precision Wheel Equipment will confirm the electrical connection, circuit requirements, compressor suitability, supplied accessories and consumables for your quotation.

## PLAN THE INVESTMENT

# Make the capability earn its place.

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Start with suitable jobs, a controlled process and a realistic view of demand.

**01**

## Review your job mix

Identify surface restoration work you currently decline, outsource or spend extra time preparing. Separate suitable cosmetic work from structural defects.

**02**

## Confirm the complete process

Discuss substrate preparation, metal powder, application settings and finishing requirements with Precision Wheel Equipment. Confirm compatibility before committing to a repair.

**03**

## Build your return calculation

Use your own job volumes and margins. Include powder, labour, compressed air, finishing, maintenance and equipment cost.

**04**

## Prepare the workshop

Confirm power and air capacity, work-area requirements and operator instruction. Ask Precision Wheel Equipment about demonstration, training and support arrangements.

Performance depends on substrate, preparation, powder selection, settings and operator technique. Ask for an assessment of your intended application.



**LET'S BUILD YOUR CAPABILITY.**

# Is TMC1 right for your business?

Talk to Precision Wheel Equipment about the parts you repair, your surface restoration process and the results you need. Request product advice and a tailored quotation.

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Technical data is based on the supplied PMJ TMC1 sheet. Product images are styled illustrations; confirm the supplied configuration with Precision Wheel Equipment. Specifications, availability, inclusions, consumables, freight, training and installation requirements are confirmed in your Precision Wheel Equipment quotation.