PRECISION WHEEL EQUIPMENT

2027 RANGE GUIDE

BLACK EDITION

CNC wheel lathe range

Precision equipment. Advanced control.
Developed by Precision Wheel Equipment.



Micro24

BLACK EDITION

Compact & mobile



Matrix24

BLACK EDITION

Vertical workshop CNC



HL24

BLACK EDITION

Horizontal workshop CNC

Three machines. One Black Edition range.

Sales, practical training and ongoing support.

Also available: H26 / SL28

precisionwheelequipment.com

CNC CAPABILITY SHOWCASE

Complex wheels. Precise control.

Deep-dish profiles, sculpted faces and return edges demand accurate profiling and controlled machining.



James Blain | Precision Wheel Equipment



Deep-dish profile example



Intricate spoke-face example

Designed around the wheel profile

The HL24 handles complex faces and deep-dish wheel styles within its machine and tooling limits. Black Edition control supports profile plotting, live adjustment and 90-degree return-edge machining.

BUSINESS OPPORTUNITY

Bring diamond cutting in-house.

Add capability, improve turnaround and retain more of the wheel refurbishment job.



Keep work moving

Reduce reliance on outsourced machining and plan jobs around your own workshop.

Offer more finishes

Recreate a machined face on suitable wheels, including complex profiles and return edges.

Build the business case around your numbers.

Compare machining demand, repair prices, labour, coatings, consumables and equipment costs. Cutting time is only one part of the complete refurbishment process.

TRAINING & SOFTWARE

Black Edition software.

A clear interface for controlled wheel profiling and diamond-cut machining.



Micro24 Black Edition home screen

Software capability

- One plotted programme for suitable faces and outer-edge machining.
- Plot and cut 90-degree return edges.
- Anti-crash features and live profile adjustment.
- No software subscription or licence-key fees.

Practical training

Two days of on-site training are included with standard CNC sales. Delivery, training and installation arrangements are confirmed in the quotation.

Training covers mounting, runout checks, touch probing, profiles, tooling and controlled cutting. Manufacturer remote support is available when required.

PROCESS & QUALITY

Prepare well. Cut with confidence.

Treat CNC machining as part of a controlled wheel refurbishment process.

01

Inspect and check

Assess wheel condition and repair suitability. Confirm the wheel runs true before machining.

02

Mount and probe

Secure the wheel correctly, check clearances and create the profile using the touch probe.

03

Review and cut

Check the plotted profile, tooling and cutting allowance. Run the controlled machining programme.

04

Refinish and finish

Apply the appropriate coating process, then complete final inspection, tyre work and balancing as required.

Anti-crash software supports the operator. Correct setup, closed guards and trained supervision remain essential.

COMPACT CNC

Micro24 Black Edition

Professional diamond cutting for mobile operators and workshops with limited space.



- Tyre-on machining up to 22 inches.
- Tyre-off machining up to 24 inches.
- 240 V single-phase operation.
- 90-degree return-edge capability.
- Touch probing and anti-crash features.

Wheel range, tyre off / on	**12-24 / 12-22 inches**
X / Z travel	**360 / 390 mm**
Chuck / maximum swing	**12 inches / 800 mm**
Main motor / spindle	**5.5 kW / 0-750 rpm**
Machine L x W x H	**1,110 x 970 x 1,530 mm**
Packing L x W x H	**1,310 x 1,200 x 1,800 mm**
Net / gross weight	**510 / 610 kg**
Controller / power	**15-inch / single-phase, 50 Hz**

Tyre-on capacity depends on the complete wheel and tyre dimensions and safe clearance. Precision Wheel Equipment confirms the electrical connection and any vehicle payload and mounting requirements before installation.

MICRO24 / 2027 TECHNOLOGY

Monitor. Record. Document.

The 2027 Micro24 package adds machining records and tools for training and technical support.

NEW FOR 2027

Document the machining process and give customers a clear record of the work carried out.

HD CCTV recording

Record the machining area and retain a visual record of the operation.

CNC screen recording

Capture control-screen activity to support fault diagnosis and operator training.

Wheel Profile Certificate

Produce a printable record of wheel profiles and material removed during machining.

Usage & service monitoring

An integrated wheel counter tracks usage. Service interval monitoring helps plan maintenance.

Mobile by design: single-phase 240 V operation, tyre-on or tyre-off capability, wireless touch probing and live profile adjustment. The compact Micro24 has no separate top viewing screen.

The Wheel Profile Certificate documents the machining carried out. Final wheel inspection remains part of the workshop quality process.

2027 package availability and supplied inclusions confirmed in your Precision Wheel Equipment quotation.

VERTICAL CNC

Matrix24 Black Edition

A vertical CNC platform with the wheel mounted flat for professional alloy wheel machining.



Wheel mounted flat

A dedicated vertical layout gives operators another option for workshop diamond-cut machining.

One plotted programme

Machine suitable outer-edge profiles and 90-degree returns, with live profile adjustment when required.

12-24 inch wheels | Touch probing | Anti-crash software

MATRIX24

Specifications & features

Manufacturer-listed specifications for the Matrix24 CNC wheel lathe.

Wheel gripping range	**12-24 inches**
X / Z axis travel	**360 / 500 mm**
Chuck	**12 inches, three soft jaws**
Main motor	**5.5 kW**
Spindle speed	**40-1,800 rpm**
Rapid traverse X / Z	**4 / 6 m/min**
Cutting feed	**0.005-100 mm/rev**
X / Z motor torque	**6 / 10 Nm**
Machine L x W x H	**1,720 x 1,450 x 1,750 mm**
Packing L x W x H	**1,950 x 1,550 x 2,000 mm**
Net / gross weight	**1,500 / 1,700 kg**
Power supply	**400 V, 50 Hz, three-phase**

Machine features

- 15-inch touchscreen and multifunction control panel.
- Four-way tool post, automatic lubrication and servo axis drives.
- Enclosed guard door, hand wheel and working lamps.

Configuration, options and installation requirements confirmed in your quotation.

MATRIX24 / 2027 TECHNOLOGY

Monitor. Record. Document.

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Wheel Profile Certificate

Produce a printable record of wheel profiles and material removed during machining.

Dedicated viewing screen

An additional HD screen gives the operator a clear view of the machining area.

Wireless touch probing, live profile modification, outer-edge machining and 90-degree return-edge capability support controlled cutting. The 2027 package also includes integrated Bluetooth audio.

The Wheel Profile Certificate documents the machining carried out. Final wheel inspection remains part of the workshop quality process.

2027 package availability and supplied inclusions confirmed in your Precision Wheel Equipment quotation.

WORKSHOP CNC

HL24 Black Edition

A horizontal CNC wheel lathe for professional diamond-cut refurbishment.



Complex profiles

Machine flat faces, shaped profiles and deep-dish styles within the machine and tooling limits.

Outer-edge machining

Plot and cut around the outer rim edge within one programme, including 90-degree return edges.

12-24 inch wheels | 15-inch touchscreen | Three-phase supply

HL24

Specifications & features

Current manufacturer-listed specifications for the HL24 CNC wheel lathe.

Wheel gripping range	**12-24 inches**
X / Z axis travel	**360 / 500 mm**
Chuck	**12 inches, three soft jaws**
Main motor	**5.5 kW**
Spindle speed	**40-1,800 rpm**
Rapid traverse X / Z	**4 / 6 m/min**
Cutting feed	**0.005-100 mm/rev**
X / Z motor torque	**6 / 10 Nm**
Machine L x W x H	**2,050 x 1,490 x 1,750 mm**
Packing L x W x H	**2,250 x 1,580 x 2,000 mm**
Net / gross weight	**1,700 / 1,800 kg**
Power supply	**400 V, 50 Hz, three-phase**

Included machine features

- 15-inch touchscreen and multifunction control panel.
- Four-way tool post, automatic lubrication and servo axis drives.
- Enclosed guard door, hand wheel and working lamps.

Dimensions and configuration are confirmed against the machine ordered.

HL24 / 2027 TECHNOLOGY

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NEW FOR 2027

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Wireless touch probing, live profile modification, outer-edge machining and 90-degree return-edge capability support controlled cutting. The 2027 package also includes integrated Bluetooth audio.

The Wheel Profile Certificate documents the machining carried out. Final wheel inspection remains part of the workshop quality process.

2027 package availability and supplied inclusions confirmed in your Precision Wheel Equipment quotation.

EXTENDED CAPACITY

H26 CNC wheel lathe

A horizontal machine with capacity for wheels from 14 to 26 inches.



- 90-degree return-edge capability.
- Anti-crash software and profile adjustment.
- Precision engineered slideways.
- 15-inch touchscreen controller.

Wheel gripping range	**14-26 inches**
X / Z travel	**360 / 500 mm**
Chuck / main motor	**12 inches / 5.5 kW**
Spindle speed	**0-750 rpm**
Machine L x W x H	**2,050 x 1,490 x 1,750 mm**
Packing L x W x H	**2,250 x 1,550 x 2,000 mm**
Net / gross weight	**1,500 / 1,600 kg**
Power supply	**400 V, 50 Hz, three-phase**

H26 specifications and photography retained from the supplied Precision brochure. Ask Precision Wheel Equipment to confirm current availability and supplied configuration.

SLANT-BED CNC

SL28 CNC wheel lathe

A slant-bed platform for larger wheels and controlled chip evacuation.



- Wheel capacity from 12 to 28 inches.
- Linear guide rails and bearings.
- 17-inch touchscreen controller.
- Wireless probe and four-way tool post.

X / Z axis travel	**520 / 530 mm**
Chuck	**12.5 inches, stepped soft jaws**
Main motor / spindle	**5.5 kW / 40-1,200 rpm**
Rapid traverse X / Z	**10 / 12 m/min**
Position accuracy X / Z	**0.01 / 0.01 mm**
Repeat accuracy X / Z	**0.007 / 0.008 mm**
Machine L x W x H	**2,220 x 1,556 x 1,523 mm**
Packing L x W x H	**2,440 x 1,790 x 2,020 mm**
Net / gross weight	**2,000 / 2,100 kg**

SL28 specifications and photography retained from the supplied Precision brochure. Ask Precision Wheel Equipment to confirm current availability, power requirements and supplied configuration.

PRECISION WHEEL EQUIPMENT

The next generation of wheel machining.

Discuss your CNC requirements, arrange a demonstration and request a tailored quotation.

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Equipment images are illustrative. Specifications, availability, inclusions, delivery and installation requirements are confirmed in your Precision Wheel Equipment quotation.

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