



POWERMET 3000 ABRASIVE CUTTER

- ❑ **A Robust Cutter adjustable in three axes: X,Y,Z**
- ❑ **Cut-Off Wheels Ø356mm (14"), Ø120mm Cutting Capacity**
- ❑ **Manual Cutting; Optional Motorized Action**
- ❑ **Motorized Delivery of the Cut-Off Wheel (Z-Axis)**
- ❑ **Manual Delivery of the Cut-Off Wheel in the X Direction (Optional Motorized Movement)**
- ❑ **Stable Steel Cabinet, able to hold the recirculating system, can be supplied**

POWERMET 3000 is a robust Cutter for a wide-range of applications in Metallography and for Cutting requirements in production. The machine uses a moving bed arrangement, with the movement of the cutting table achieved manually by rotating the handle. Optionally, automatic motion of the table can be installed.

The vertical position of the cutting arm is motorized and set from the control panel, a feature which allows optimal usage of the cutting wheel.

The position of the cutting wheel can be adjusted in the x (left-right) axis for cutting in series or parallel cutting.

POWERMET 3000 uses an aluminium cast base, onto which the cutting chamber is mounted. The motor is mounted behind the cutting chamber, thus allowing greater room for positioning of large pieces. The electronic controls are located in a control panel completely separate from the cutting chamber.

T-Slots of 12mm in the x and y direction allow flexibility in arranging the work piece with a variety of vises.

The machine is supplied with a clean-out hose for easy cleaning of the cutting chamber.

POWERMET 3000

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Technical Data

Operation:

Moving Bed with manually operated table movement
 Optional: motorized table movement
 Motorized positioning of the Cut-Off Wheel (z-axis)
 Manual position of the cut-off wheel in the x axis, for cutting in series or parallel cutting.
 Optional: motorized cut-off wheel movement

Motor Power:

5,5 kW (7,5 PS) with 1400 rpm

Cut-Off Wheel:

356mm diameter (14")

Cutting Capacity:

105mm bar
 120mm/30mm rectangular pieces

Table Movement:

220mm

Maximum height of Cut-Off Wheel (356mm) above the table:

90mm

Movement Range in x axis:

120mm

Cutting Table Dimensions:

410x310mm (WxD)
 12mm T-Slot Bed

Recirculating system:

Optional, see list of accessories

Electrical Requirement:

400V/50Hz/3-phase

Safety Features:

Electro-mechanical locking of the hood, while the Cut-off wheel is rotating
 Emergency Stop Button
 CE-Marked

Other Features:

Cleaning Hose
 Lighted Cutting Chamber
 Large viewing Window

Weight:

400 kg

Dimensions:

1540x1010x700mm (WxDxH)

1540x1010x1020mm (WxDxH, hood open)



Foreground: Rotating handle for table movement
 Right, rear: Handle for x-positioning of the cutting arm



Large Cutting Chamber: Motor and mechanical components of the cutting arm are found outside (behind) the cutting chamber.

Spezifikation

POWERMET 3000

POWERMET 3000, 400V/50-60 Hz, 3 Phase, 5,5 kW Motor	10-2400-400
Recirculationssystem with Pump, 90 l Capacity	10-2420-400
Steel cabinet with wheel and two doors (850x860x850mm, WxDxH)	10-2405

Accessories:

MET-KLAMP Vise with separate rear block, left-hand	10-2170
MET-KLAMP Vise with separate rear block, right-hand	10-2171
Speed-Vise Kit, large	10-3523
Speed-Vise Kit, small	10-3531
Riser Block for Speed-Vise Kit, small, Erhöhung um 60mm	10-3532
VEE Blocks, adjustable, 1 pair	10-3525
Horizontal Clamp Speed Vise Kit, large	10-3526
VEE Clamp Block Kitz, 2 sets	10-3527

Additional Accessories are available.

For a complete list of consumables supplies for use with our equipment, please refer to Buehler's Consumables Buyers Guide. Buehler continuously makes product improvements; therefore, technical specifications are subject to change without notice.

