

METMASTER

METALLOGRAPHIC SYSTEMS

MASTERCUT-1200

Abrasive Cutter



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THE MASTERCUT 1200 COMBINES POWER WITH FLEXIBILITY

- Available in automatic and manual versions
- Powerful, 5hp variable speed motor allows cutting through the hardest materials.
- Uses a 12" cutoff wheel, giving a maximum cutting capacity of 4."
- Double, stainless steel slotted bed.
- Protective hood with safety switch for maximum operator safety.
- Heavy duty 16 gallon (60 litres) recirculating system.
- Solid, cast aluminum base.
- All metal parts painted with corrosion resistant epoxy.
- Available in various electricals, for use in all international markets.



MASTERCUT 1200 OFFERS A LARGE CUTTING BED AND A CHAMBER BIG ENOUGH FOR LARGE METALLOGRAPHIC SAMPLES



USER-FRIENDLY TOUCH PAD CONTROLS GIVE THE OPERATOR MAXIMUM CONTROL



Abrasive cutting is normally the first step in the preparation of metal samples (including ferrous, non-ferrous and composites). This step is critical to the preparation process, as any deformation introduced in this early step must be removed in subsequent steps. Unless the correct procedures are used for cutting, the deformation can be so bad, and go so deep into the sample, that a good outcome to the preparation process is nearly impossible.

There are several important parameters that need to be adhered to if the cut is to be done correctly. These include: a continual flow of coolant on to the sample being cut; the correct blade for the material and no excessive pressure being put on the part by the blade. If any of these are not done correctly, an overheated sample can result, with deformation going deep into the sample.

The MASTERCUT 1200 allows the user to easily control these important parameters:

- I. A 60 litre tank and powerful motor keep a continual stream of coolant aimed at the part and the blade.
- II. The hood to the cutting chamber, with extra strong industrial hinges, can go all the way back, giving free access to the chamber and allowing the easy changing of the cutoff wheel.
- III. Electronic Variable Speed motor offers the most consistent speed maintenance of blade and vise traverse, automatically sensing force and resistance and making adjustments.
- IV. High impact glass in the viewing area and a locking hood provides the highest in safety.
- V. An easy to use, programmable touch screen offers the operator the highest level of convenience and control. (Automatic Model Only)
- VI. Stainless steel "T" Slot Table makes clamping and fixturing your specimens quick and Easy.



MASTERCUT 1200-M manual abrasive cutting machine for cutoff wheels up to 12-inch diameter; powerful compact 5 HP motor, cutting capacity up to 4" (100mm) of solid stock, double stainless steel T-slotted bed for easy setting of vises, rugged aluminum cast base, protective hood with safety switch, all metal parts painted with polyurethane-based epoxy corrosion resistant paint, 16 gallon (60 liters) recirculating system with connecting hoses ready for operation. (208-230 V, 3 phase, 50/60 Hz.) Recommended accessories:

MASTERCUT 1200-A automatic abrasive cutting machine hosts the same key features as the above manual version along with the following Automation enhancements:

- Programmable power feed table sets the table speed and force
- Selectable steady or pulse cutting action
- Variable speed cutting wheel (1000-3500 rpm, programmable)
- "Recipe recall" for up to 10 programmed cutting parameters

The Cutting action can either be "Standard", with the operator controlling table advance with a joystick, or "Force Feedback Cut" in which table feed rate and cutting blade speeds are programmed and controlled automatically for the optimum cut.

METMASTER OFFERS A COMPLETE LINE OF CUTOFF WHEELS AND OTHER CONSUMABLES DESIGNED TO IMPROVE YOUR CUTTING RESULTS:

12"x .062"x 1.25", Aluminum Oxide, For Hard Steel RC60+
METS-ACUT-012-HS60

12"x .100"x 1.25", Aluminum Oxide, For Medium Steel RC45
METS-ACUT-012-MS45

12"x .100"x 1.25", Aluminum Oxide, For Soft Steel RC30
METS-ACUT-012-SS30

12"x .094"x 1.25", Reinforced Aluminum Oxide
METS-ACUT-012-REIN

12"x .045"x 1.25", Aluminum Oxide, For Gen. Purpose Cutting
METS-ACUT-012-RB45 (Pack of 25)

12"x .062"x 1.25", Silicon Carbide, For Hard Non-Ferrous
METS-ACUT-012-HNFT

12"x .062"x 1.25", Silicon Carbide, For Medium Non-Ferrous
METS-ACUT-012-MNFT

12"x .045"x 1.25", Thin Silicon Carbide, Medium Non-Ferrous
METS-ACUT-012-MN45

12"x .062"x 1.25", Silicon Carbide, Soft Non-Ferrous
METS-ACUT-012-SNFT

Water Soluble, Oil Based Cutting Fluid
METS-ACUT-CFL-GALL

Blue, Semi-Synthetic Cutting Fluid
METS-ACUT-BFL-GALL