

GRAVOSTRAL

ENGRAVING TIPS



Updated : 17/11/2000

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Gravostral is made up of one aluminium layer, one black phenolic layer and another aluminium layer. It can be engraved on both sides.



When engraving, always take care <u>not to SCRATCH</u> the plate.

CUTTING GRAVOSTRAL



We advise you to use a saw

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It is preferable to bevel the plate after the cutting operation to smooth out the sides and thus avoid sharp edges. Caution : check the grain of the material plate.



ENGRAVING GRAVOSTRAL

Always work on a clean surface and check that the tools are well sharpened

CLAMPING GRAVOSTRAL: It can be clamped according to its shape and dimensions on a clamping table or on a vice with celoron or aluminium jigs (for a small piece of material).

ENGRAVING WITH A CUTTER : Gravostral is sensitive to scratches

Caution :

- <u>engraving with a pantograph</u> : we recommend you leave the protection and do not apply strong pressure on the spindle.

- <u>engraving with an electronic machine</u> : without regulating nose, gripping the spindle spring in order to have a regular engraving depth.

NB : You can use a high frequency spindle or a collet spindle.

TOOLS :

• <u>Cutter</u> : Gravostral is very abrasive. Carbide is strongly recommended because it is more resistant on the long run.

Grinding				
Cutting angle	40°			
Half-taper angle	23°			
Tip angle	7°			
Clearance angle	15°			

Type of tools	<u>Carbide</u>	
Ø 3,17	05 410 xxx	
Ø 4,36	58 101 xxx	
TwinCut® Insert	B7 300 xxx	

warning : these parameters are only valid with Gravograph's standard cutters.

 $\underline{\textbf{NB}}$: The size of the tip depends on the engraving width you wish to obtain.

MACHINE PARAMETERS :

	Speed (mm/s)			Dwelling time	Engraving depth
	<u>Z</u>	<u>X-Y</u>	Rotation (Revolution / mn)		
CUTTER	15	20	18 to 20 000	0	0.3 mm

We advise you to apply <u>a little</u> lubricant on the surface to be engraved during the engraving in order to avoid a swarf accumulation

FINISH

Gravostral is made up of 3 different colour layers superimposed. It is intended to be engraved on the 2 oposite sides, the black central layer gives the script colour.

In order to obtain a glossier engraving, we advise you to apply a little oil on the characters.

BEVELLING : Use the B4 and B6 machines to enhance the finish of the plate, to obtain different types of bevelling according to your requirement. Examples:



B6: #.00 014 101

