



Ultrasonic Drilling Machine UST-300

For the machining of glass, ceramic and other hardbittle materials

The ultrasonic machine type Erosonic UST 300 is a compact ultrasonic drilling machine to work with rotational diamond tipped tools and ultrasonic technology. The ultrasonic support increases the working speed and decreases the working forces substantially. This leads to higher surface quality (homogeneity), less induces stress during machining and shorter cycle times.

The machine has 3 CNC linear axes, an ultrasonic spindle with internal cooling and a pressure monitoring as well as a force measuring system for monitoring and controlling of the process forces. A touch-screen control with simple dialogues and the possibility of ISO programming offers the best possible control with many possibilities to the user. A comprehensive range of dama tools offer solution to most of the processing problems.

The machine is particularly suitable for drilling and trepanning of diameters, but can be also used for complex 3-D grinding work. The machine can be equipped with a touch probe (Blum Pico) to control and compensate the tool wear.

Technical data

Work piece table		220 x 140 mm
Travers path		X: 220 mm Y: 100 mm Z: 190 mm
Feed rate		1 – 5000 mm/min
Digital display		0,001 mm
Ultrasonic spindle programmable		500 – 8'000 rpm
Ultrasonic generator frequency		35 kHz / 600 W
Force measuring system for feed control for Z-axis		0 – 20N / 0 – 200N
Electrical connection		3 x 400V, 50Hz, L+N+PE / 16A
Compressed air connection		6 bar
Coolant tank		30 lt
Dimension	Machine	570 x 620 x 740 mm
	Control	420 x 800 x 420 mm
Weight	Machine	160 kg
	Control	20 kg

Technical alterations subject to change.

