



**LEYER & KIWUS**

ULTRASCHALL + LASERTECHNIK

# DIAMOND DRAWING DIE AUTOMATIC PRECISION LASER DRILLING SYSTEM





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## *Technical Features*

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Automatic Laser Drilling Machine for processing diamond drawing dies in natural diamond and polycrystalline diamond in the diameter range from 0,008 mm up to 1,2 mm with fully automatic feeding. Integrated measuring of die casing, diamond thickness and position.( Other diameter ranges available )

Simple graphic drawing profile programming  
Unique drilling strategy for smooth diamond surface save finishing time  
Narrow and width profile angles from 0 to 120 degree  
Lowest diameter tolerance  
Entrance-, reduction- and exit angle drilled in one clamping position  
Ultra stable by newest high peak power Diode Pumped Solide State Laser  
Fast processing time for nearly all diameters less than 3 minutes  
Nearly maintenance free by minimum 10.000 h diode life time

## *Specification*

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Voltage: 220-240 V AC 50-60 Hz  
Power Consumption: < 1,5 kW  
Air Pressure: 6 bar, water and oil free  
Dimensions: 1450 x 850 x 1600 mm ( LxWxH )  
Weight: 1000 kg

Stable basement built form steel and granite  
Integrated laser power supply for water cooling  
CCD-Camera obervation during process  
Integrated die feeding and measuring system  
Integrated multi-axis Controller with Windows XP-Software  
Air Bearing Die Spindle for casing diameter 25-, 28-mm ( 30 mm optional )  
( Other casings sizes possible )

*Manufacturer since 1987:*

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