

DIAMOND DIE UNIVERSAL LASER DRILLING SYSTEM

Specification:

The Laser Drilling System can process ND- and PCD Dies from approx. 0,025 - 12 mm hole size with reduction-, entrance- and exit cone.

The maximum blank height is not limited. The laser can also recut used dies.

Laser Source:

- Diode Pumped TEM₀₀- Single Mode Nd:YAG laser
Q-switched resonator with pulse repetition from 1Hz - 10.0 kHz,
diamond ablation optimized pulse length and peak pulse power ,
ultra stable resonator and laser cavity mount on granite,
room temperature stable 18-24 C,
- external requirements: 1 phase 230 V-AC 50 Hz, 10A fused, 1 ground line,
total power consumption max. 1,5 kW,
external cooling water with 3-6l/min at 18-20 C required,
compressed air 6 bar,
- integrated laser power measurement system
- 3-axis positioner with angular motion stage and
adjustment range for 0 - 90 degree drilling angles
- precision-air-bearing-die-holder for 25-32 mm casing diameter,
optional adaptors for diameter 16, 43 mm, 55mm
- motor controller with 1 micron resolution
- PC with Windows XP English laser drilling working software
- CCD- colour camera with PC- screen observation and measuring functions

- free standing steel table with 200 kg granite and wood with dimensions (LxWxH) approx. 1900 x 800 x 1200 mm, total weight approx. 500 kg,

packing weight approx. 800 kg,

packing dimensions of the wooden container: approx. 2000 x 900 x 1500 mm.



Universal Diamond Die Laser System