LDigit express

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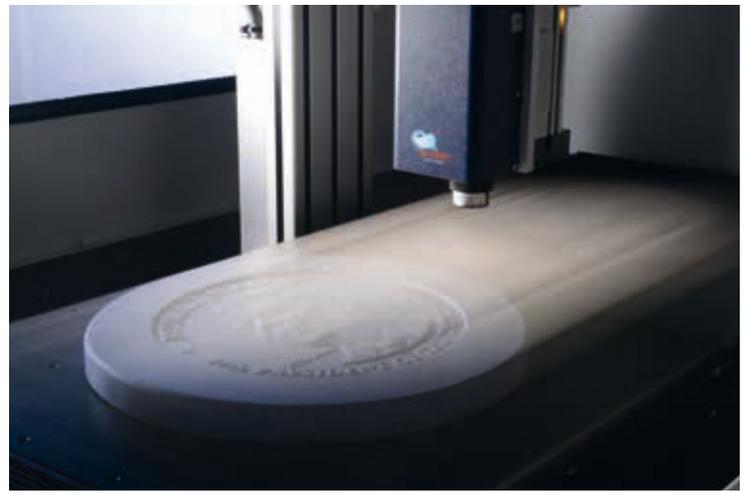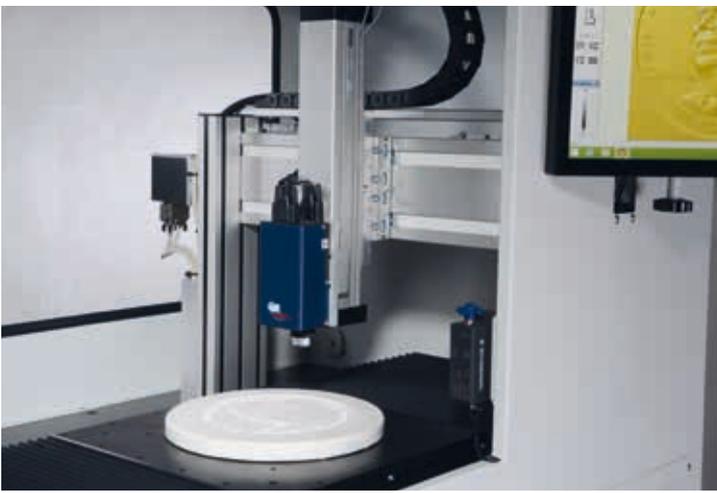
LANG

The universal unit to scan and digitize 3D free-form surfaces and relief models, for ex. for producing coining dies. It is perfectly aligned to highest scan demands. Due to high dynamic linear motor axis, a Y-Z-portal for fixing different sensor systems (digital, mechanical measuring sensor, optical distance sensor) as well as the latest version of the LANG software package **Relief-Designer Scan**, it's possible to execute the most complex digitization within the shortest possible time. The in-house developed positioning control LSTEP express, integrated in the system, enables in combination with the linear motor axis a quick and trouble-free scanning with a max. acceleration of 10 m/s². The new integrated laser system Optimet ConoPoint-10 is up to eight times faster as its predecessor. It enables with a scan speed of up to 800 mm/s an even faster data creation. The activation is controlled via a PC with innovative and user friendly touch operation. Breadboard bore holes in the table offer highest flexibility when clamping the models.

TECHNICAL DATA

Working range (X x Y x Z)	400 x 400 x 150 mm
Scanning area (X x Y)	397 x 400 mm
Maximum load of table	20 kg
Machine dimensions with base frame B x D x H (depending on equipment, exact dimensions acc. to transport plan)	1110 x 830 x1800 mm
Machine weight with base frame	335 kg
X axis resolution (measuring system)	< 0,1 µm
Y axis resolution (measuring system)	0,125 µm
Z axis resolution (measuring system)	0,125 µm
Recommanded scanning resolution	from 10 µm
Measuring ranges	
with lens 25 mm	1,8 mm
with lens 50mm	8 mm
with lens 75mm	18 mm
with lens 100mm	35 mm
Motor control unit	LANG LSTEP express
Software	Relief-Designer-Scan