

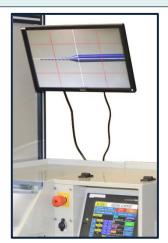
Semiautomatic Varnishing System TLA 1-D23/102

The semiautomatic varnishing system TLA is for masking varnishing of diamond dental burrs (types FG, H and RA) prior to the electro-plating process as well as for coding with colour rings of diamond dental burrs, implant drills and rotating instruments.

It is equipped with a precision varnish dosing, three-axis linear guide, camera and monitor for visual control of varnishing, PLC controller and a Touch screen operators' terminal for programming and backup of programs.



Varnishing unit with three-axes linear guide and volumetric paint dosing

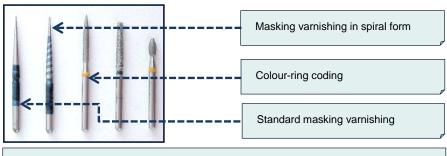


Monitor to check varnishing

Note: All illustrations are examples. The product may vary from the illustrations.

Technical Data	
Clamping diameter:	1,6 / 2,35 / 3 / 4 / 5 / 6 / 8 / 10 mm (other diameters available on request)
Clamping depth:	min. 4 mm
Varnishing range:	With three freely programmable axes: varnishing zone according to program
Varnishing capacity:	For masking: appr.8 - 10 pcs/min. (Blank: FG; varnishing zone 10 mm,
	dosing needle Ø 0.25mm)
	Colour-ring coding: appr. 12 - 15 pcs/min (2-component varnish)
Note:	All information given depends on operator and quality and precision of blank,
	and may therefore vary .
Program memory:	appr. 2000 dental burr types depending on varnishing range and hard disk capacity
Mandrel speed:	max. 1000 rpm
Air pressure:	5 7 bar, oil-free, dry
Power connection:	230 V, 50 Hz
System dimensions:	L x W x H appr. 1450 x 740 x 1640 mm

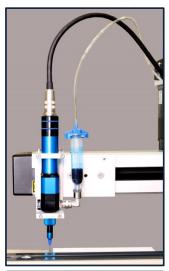




Examples of masking varnishing and colour-ring coding on dental burrs



Examples of colour-ring coding on implant drills



Volumetric paint dosing system

Basic equipment

- Holding frame welded of aluminium profiles and baking enamelled
- > Table surface for varnishing unit made of aluminium, baking enamelled
- Headstock with collet holding fixture and pneumatic clamping unit
- Freely programmable carriage
- Carriage guide for x-y-z-axes with step motor
- Drive motor for headstock, continuously speed controlled by PLC.
- Main control with switch box
- PLC-controller

Version: CPU-module Q-series

Input/output addresses: 4096/8192

Storage media: Program memory 120 kByte

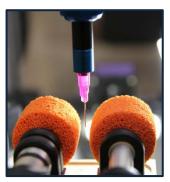
Interfaces: USB 100BASE-TX

Graphics Display: with touch operation 8,4" 65536 colours LCD type: TFT Colour-LCD Resolution : 640 x 480

- Optical control of varnishing by camera and 19" monitor
- Safety housing incl. light barrier for machine safety
- Volumetric dosing system for precision application of varnish
- Laser-assisted precision zero-setting for improved reproducible varnishing results
- Electronic hand wheel in connection with on-board PC for easier programming

Optional expansions TLA 1-D23/102

- Prearrangement of the TLA for integrating a robot for automation incl. servomotors for axes, motion controller and servo amplifier
- ➢ 6-axes varnishing robot for grinding points with vertical surfaces
- Enlargement of head stock fixture up to collet Ø 32 mm
- Change of power ratings to 120 V, 60 Hz



Cleaning device for dosing needle