

HE HITECH MILANO **EUROPE**

METALLOGRAPHIC SAMPLE PREPARATION



DIGITAL POLISHERS

TSP SERIES

TOUCH SCREEN

METALLOGRAPHIC POLISHERS TSP SERIES

This Series is based on the efficiency of their electronic parts, which help the operator in his job. It is possible to set up each step of the polishing cycle, in order to guarantee better results with less efforts. The operator can change the settings during the cycle. The PLC, digital electronic is controlled via touch screen, with the possibility to store up to 150 programs with 10 passwords. The electronic control of the parameters is done with extreme precision in order to determine the repeatability of the programs. The operator can store all the cycle parameters: the working wheel rotational speed and the direction, the pressure of the sample, the cycle time and the control of the water and of the fluids used.

Hydraulic System

The connection to water source is useful for the dispensing of the water on the plate, which is facilitated by adjustable nozzles.

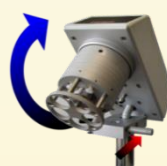


Rotating head “swing away”

This system allows using the polisher like a manual polishing machine, because the head can be moved out of the working area



TSP22



“Tilt up system”

It is possible to release up the head of the polisher to easily replace the sample holder and the JIG, the working wheels, the abrasive papers and the cloths, or to clean the polishing machine.



Control Panel

EASY! It has only two buttons: START and STOP.
The electronic has a basic rule: it controls all the machine cycle

Fluid dispenser

The automatic polishing machines TSP have two different systems to distribute the fluids:
With pump – Venturi line, which uses the aspiration principle, through a pneumatic valve and distributes on the working wheel the diamond suspensions and the fluids in a homogeneous way.
With a peristaltic pump, which is useful to distribute the fluids and the diamond solutions, but also the high solutions density, like alumina, colloidal silica etc..
The fluid distribution is made by drip.



TSP32/3

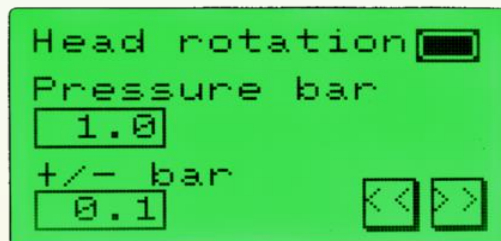
(Code 02-33-3201-C)



TSP22

(Code 02-33-2200-C)

METALLOGRAPHIC POLISHERS TSP SERIES



The Touch Screen electronic allows to display in real time all the stored parameters, to change them during the cycle, to check the time remaining to the end of the cycle, to set the dosing of fluids (how many pulses per minute and duration of each), and to set up automatically the cleaning of the tubes with oxides or other abrasives

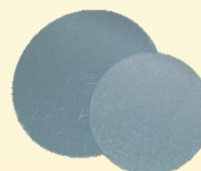
ACCESSORIES



Magno Base



Working wheel



Magno Plate



Paper Clamp



Sample Holder



Sample Spacer

All accessories are available for Ø 200/230/250/300

Outline for the use of different abrasive support



TECHNICAL FEATURES

MODEL	TSP 22 Double Wheel Ø 200/230 mm.		TSP 32/3 Double Wheel Ø 250/300 mm.	TSP 32/Combo V Double Wheel Ø 250/300 mm.	TSP 22/3V Double Wheel Ø 200/230 mm
Code	02-33-2200-C		02-33-3201-C	02-33-32V1-C	02-32-22V1-C
Steel frame - stainless steel screws	Si				
Cover	Resin reinforced shockproof / corrosion				
Sample Holder	Individual Pressure (3 Samples)		individual Central Pressure (5 Samples)	Individual Pressure (3 Samples)	
Ø Holders (mm.)	25/30/40/50	25/30/40/50	25/30/40		
Head rotation speed motorized	75 rpm.		0-75 rpm.	75 rpm.	
Rotating Head“swing away	Yes				
“Tilt up system” head	Yes				
Working wheel rotational speed (clockwise and counterclockwise)	0–600 rpm.				
Adjustable Hydraulic Unit	Yes				
“touch screen”	Yes				
Password + Programs Set	0-30 standard (10-150 option)				
Operating pressure of the sample	...Bar (Individual pressure), bar (central pressure				
Cycle Time	Programmable				
Dispenser	4 Fluid Dispenser				
Inverter Controlled Motor, with variable speed	0,75 Kw				
Power Supply	230V - AC				
Hydraulic System	Connect to water source				
Pneumatic System	Connect to air source (pressure 6 bar)				
Dimensions (mm.)	600x520x750				
Weight (kg.)	65 Kg	100 Kg			65 Kg
Splash guard and cover	Yes				
Instruction Manual - tool set – CE Certificate	Yes				
Teradrop Jig Samples (central pressure)/levelling base	No		4/5/8/10 campioni		No
Sample Holder 3 holes (Ø 25-30-32-38-40 mm.)	Yes		No		Yes
Sample Holder 3 holes (Ø 50 mm.)	Yes		No		Yes
Sample Holder 5 holes (Ø 25-30-32-38-40 mm.)	No		Yes		No
Working Wheel (Ø 203 – 230 mm.)	Yes	No			Yes
Working Wheel (Ø 250 – 305 mm.)	No	Yes			No
Sample Spacer (Ø 25-30-32-38-40mm) Ø est. 50mm	Yes			No	Yes
Grinding Paper Clamp (Ø 203 – 230 mm.)	Yes	No			Yes
Grinding Paper Clamp (Ø 250 – 305 mm.)	No	Yes			No

tecmet 2000 supplies a wide range of high quality consumables for the preparation of metallographic samples:

- Abrasive cut off wheels
- Diamond blades
- Mounting accessories
- Hot and cold mounting compounds
- Consumables for finishing
- Abrasive papers
- Self-adhesive diamond discs
- Abrasive suspensions
- Polishing products
- Polishing cloths
- Magnetic system

* Ask for the Consumables Catalogue

HITECH
EUROPE



is product name of the metallographic instruments made in Italy by :

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