

Simple Design! Easiest Operation!

METALLURGICAL POLISHER

GP-101/GP-102



Union

Prior to practical microscopy, the surface of a metal specimen must be completely polished up for revealing the hidden structure without harmful abrasion or destruction of the phase. UNION OPTICAL's metallurgical polisher; GP is a simple, inexpensive apparatus which can meet the above requirement.

Features

- *Rotor bearing uses spill-proof ball bearing, providing protections against wear and rust, and realizing no deterioration without grease supply.
- *Polishing wheel is easily attachable and detachable with screws.
- *As polishing wheel is plated with alumite, no rust is developed by polishing agent powder.
- *Both polishing wheels of single and twin type have wide 240mm wheel diameter, even though it's well balanced, less surface vibration.
- *400R/min to 800R/min variable speed motor is used for rotation of polishing wheel.
- *It's very easily and surely to fix a buff at polishing wheel with a spring band.

Standard Specifications

Model	Wheel dia.	Rotating speed	Motor	Accessories	Size	Weight
Single GP-101	φ 240 mm	Variable speed 400R/min to 800R/min	Single phase 80W	Buff(1) Dispenser(1)	345(W)mm 315(D)mm 537(H)mm (not including a drain pipe)	17kg
Twin GP-102		Variable speed 400R/min to 800R/min	Single phase 80W	Buff(1) Dispenser(1)	630(W)mm 315(D)mm 645(H)mm (not including a drain pipe)	28kg

Consumables

1. Polishing Agent

For final polishing with GP, it's polished with dripping fluid (abrasive compound) onto polishing wheel from a dispenser. For this abrasive compound, Alumina(Al₂O₃) Fluid Compounds are available.

■ Types and applications of Alumina Fluid (Compounds) 500cc

Kinds	Particle Size (μm)	Applications
FM1	3	For high solid metal, hardness VHN700 or more
FM2	2	For medium solid metal, hardness VHN300 to 400
FM3	1	For soft metal, hardness VHN150 or less
FM4	0.3	For soft metal or alloy such as aluminum, copper, brass

*VHN: Vicker's hardness number

2. Emery Paper

Emery paper should be selected as per degree of final polishing, degree of hardness or softness of specimens accordingly.

■ Types of Emery Papers

Code No.	EP-1M	EP-0	EP-0/2	EP-0/3	EP-0/4	EP-0/5	EP-0/6
Grain No.	#240	#320	#400	#500	#600	#700	#800

*10 sheets/set

3. Polishing cloth (buff, GP-G)

280x280mm wool felt cloth

4. Spring band (GP-SB)

Stainless steel spring, for fixing buff on polishing wheel

UNION OPTICAL CO., LTD.

2-22-4, Shingashi, Itabashi-Ku,
Tokyo 175-0081, Japan
Tel: 81-3-5997-8531 Fax: 81-3-5997-8532

URL; <http://www.union.co.jp> E-mail; new-union@union.co.jp

* All specifications are subject to change without prior notice.