

World Leader in Superabrasive Finishing Systems

WTD Series Wafer Thinning Device



The WTD is available in sizes to handle 3", 4" and 6" wafers and is sized to pair with industry standard lapping equipment.

WAFER THINNING APPLICATIONS:

- Optical components: LiNbO₃, CaF₂, MgF₂, Si, Ge, KTP, DKDP, etc.
- Planarization of MEMS structures
- Lapping and polishing of semiconductor wafers: InP, Sapphire, GaSb, InSb, SoS
- Thinning of high grade metal substrates: Titanium, Nickel, Copper, etc.

The new Hyprez® Wafer Thinning Device is designed to accurately control thickness and parallelism of thin and delicate parts during lapping and polishing operations.

This device is capable of accepting a variety of product configurations and can be used with a parts carrier to process multiple parts in one cycle resulting in decreased manufacturing costs.

The WTD consists of two primary components:

- A vacuum chuck with a hardened steel support ring and digital indicator to monitor part thickness.
- A powerful vacuum system featuring a dial gauge to monitor pressure along with a quick-connect for fast changeovers, maximizing ease of operation.

In addition, the free weight platform can be used as a device stand.

Robust and durable, the WTD is portable and easy to use. Upon request, Engis can provide wear resistant contact surfaces or customized sub-fixtures to accommodate your specific parts handling requirements.

Engis also offers a complete line of custom fine grinding, lapping and polishing machine tool systems designed to process a variety of unique and demanding applications.

Other Products Available from Engis:

- Hyprez Superabrasive powders
- Hyprez lapping machines
- Hyprez composite lap plates
- Hyprez diamond and colloidal lapping & polishing slurries
- Hyprez diamond compounds and lubricants
- Conditioning rings

ENGIS CORPORATION

Leaders in Superabrasive Finishing Systems

105 W. Hintz Road., Wheeling, IL 60090-6038

Tel: 847.808.9400 ● Fax: 847.808.9430 ● Toll Free 800.99.ENGIS

www.engis.com

WTD-003-0813





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Wafer Thinning Device Specifications

MODEL		WTD-75V	WTD-100V	WTD-150V
VACUUM FIXTURE	Wafer Size:	75mm (3")	100mm (4")	150mm (6")
	Sub Jig Diameter Max Part Clearance:	120mm (4.72")	120mm (4.72")	172mm (6.75")
	Gauge resolution:	1μm (.00004")	1μm (.00004")	1μm (.00004")
	Force Control:	Spring Tension & Die Weight	Spring Tension & Die Weight	Spring Tension & Die Weight
	Maximum Force	3.7kg (8.15lb)	3.7kg (8.15lb)	4.7kg (10.37lb)
	Dimensions:	Ø170mm x 244 mmH (6.7 x 9.61")	Ø170mm x 244 mmH (6.7 x 9.61")	Ø222mm x 244 mmH (8.7 x 9.61")
	Weight:	7.3kg (16.1lb)	7.3kg (16.1lb)	9.9kg (21.8lb)
VACUUM PUMP	Volts: (Can be ordered in either 110 or 220)	110 or 220 Single Phase 60 Hz	110 or 220 Single Phase 60 Hz	110 or 220 Single Phase 60 Hz
	Watts:	150	150	150
	Vacuum Meter:	-760 mm Hg R 1/4	-760 mm Hg R 1/4	-760 mm Hg R 1/4
	Weight	7.5 kg (16.5lb)	7.5 kg (16.5lb)	7.5 kg (16.5lb)

ENGIS is the Industry Leader in Pioneering New Technologies & Applications



Contact Us Today. . .

1-800-99-ENGIS . . .

Ask about the

ENGIS 6-Step Superabrasive

"Systems Approach"

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