





EHWA DIAMOND IND. CO. LTD.

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PRECISION DIAMOND WIRE (PDW)



Advantages

High throughput & Superior cutting quality

- Reduced process lead time and kerf loss
- Enhanced flatness of cut materials and superior Warp, TTV and Bow values

Applicable for thin wafer slicing - through uniform diamond grit

Longer wire lifetime - Excellent diamond retention & no wire breakage

Faster cutting speed - 3~10 times compared with slurry process

Low cost and eco-friendly - Slurry free process

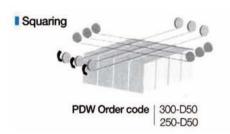




For Silicon

For silicon slicing application, EHWA provides diamond wire in as 50um along with 120um. In realizing minimized kerf loss and superior cutting quality for high yield and utilization of thin wafer process, EHWA PDW will be the only solution.

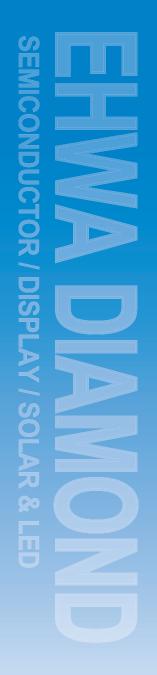
EHWA PDW is easily adapted to other cutting systems in wider industries that would replace conventional cutting methods meeting customers' requirements for cutting quality and expectations for high throughput and cost savings





PDW Order code | 90-D35







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For Sapphire

EHWA PDW is widely accepted in slicing and cropping process for 2",4" and 6" sapphire wafer preparation and it tis expanding its presence in 8" sapphire wafer preparation process. Compared to Resin-coated diamond Wire, EHWA PDW has better thermal stability, longer lifetime and allows fast cutting time resulting in high throughput.

SPECS for PDW

	core material ¹⁾			diamond size		concentration3) &
	Order Code	diameter $(oldsymbol{arphi}, um)$	WBS (N) ²⁾	(um)	kerf loss(um)	spool ⁴⁾ availability
	50-D-9	50	10	5~10	60~70	We can provide wire according to the customer's request
	60-D-10	60	12	6~12	70~80	
Mono-/Poly-Si Wafering	70-D10	70	18	8~12	80~90	
	80-D12	80	21	8~16	90~100	
	90-D12	90	23	8~16	100~110	
	120-D15	120	40	10~20	140~145	
Sapphire Ingot Wafering	160-D35	160	65	30~40	220~240	
	180-D35	180	85	30~40	235~255	
	180-D45	180	85	40~50	245~255	
Si Squaring/ Sapphire Cropping	200-D35	200	110	30~40	260~280	
	250-D35	250	180	30~40	310~330	
	250-D50			40~60	340~360	
	300-D50	300	240	40~60	390~410	

- 1) high-quality piano wire, 2) wire breaking strength
- 3) low, middle, high concentration with continuous quality
- 4) lengths to 5, 10, 20, 30km, 50km, +100km



