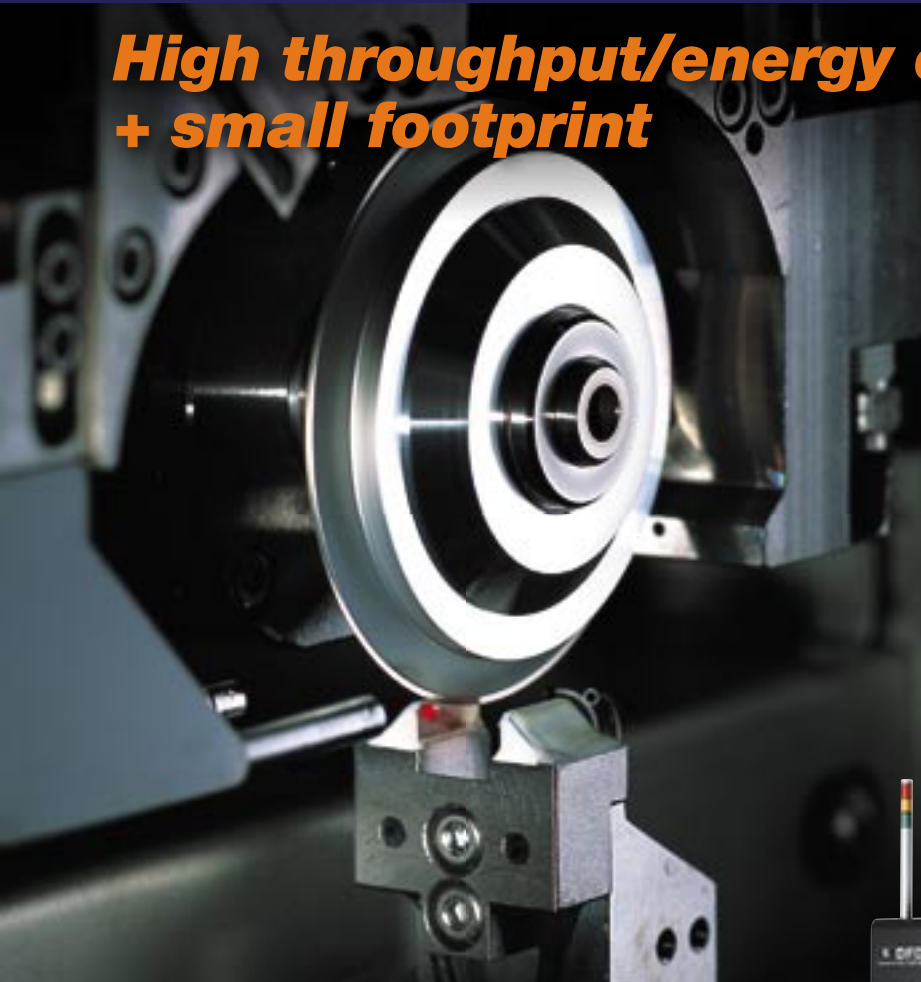
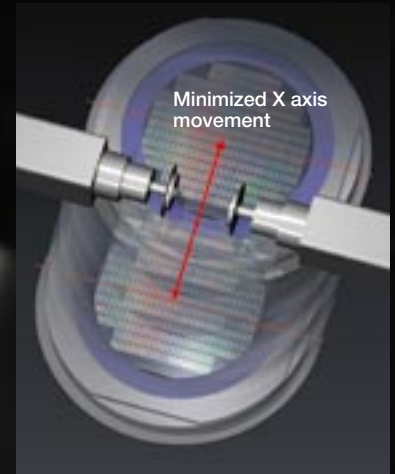


Fully Automatic Dicing Saw **DFD6340**

**High throughput/energy efficiency
+ small footprint**



Facing dual-spindle



Maximized Throughput

A facing dual-spindle configuration with a shorter distance between blades improves throughput by up to 30% for step/bevel cut and 40% for dual cut when compared to parallel dual-spindle saws.

Small Footprint

By employing a new high-rigidity, bridge-type frame structure, the DFD6340 has the smallest footprint of any 8" saw in its class.

Lower Air and Energy Consumption

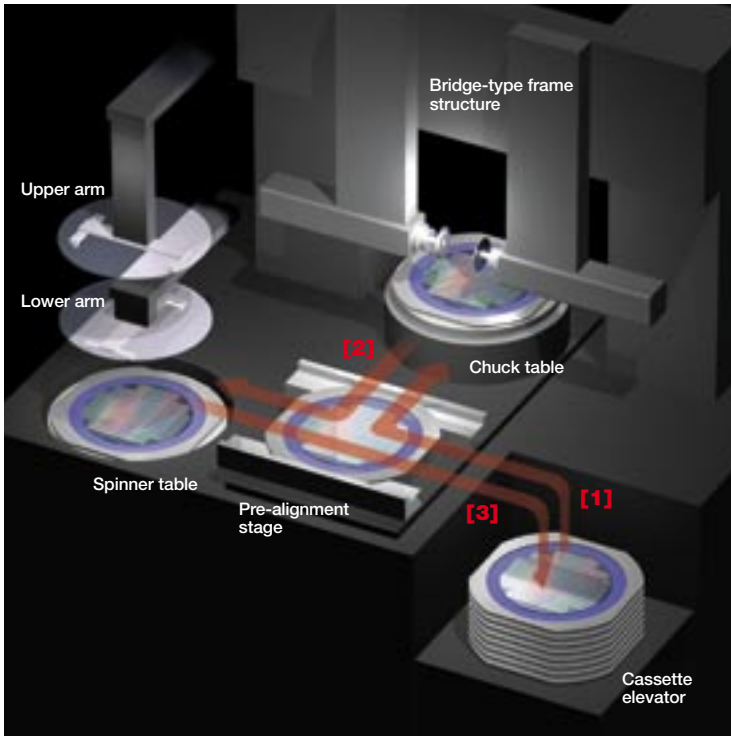
Utilizing the latest in conservation technology, the energy and air consumption of the DFD6340 has been reduced by 33% and 24% respectively when compared to the previous generation of saws.

Easy Operation

The DFD6340 utilizes an adjustable LCD touch screen graphical user interface making operation and maintenance intuitive and easy. Also, an inspection stage allows for a wafer to be removed during saw operation.



Fully Automatic Dicing Saw DFD6340



DFD6340 Workpiece Flow System

- [1] Lower arm moves workpiece from cassette to pre-alignment stage. Lower arm moves workpiece to chuck table → **cutting** →
- [2] Upper arm moves workpiece to spinner table → **cleaning & drying** →
- [3] Lower arm returns workpiece to cassette

Cost of Ownership Improvements

- **Shorter set up time - two NCS sensors**
Two Non-Contact Setup sensors, one each for Z1 & Z2, enable increasing throughput.
- **Shorter kerf check time - two microscopes**
A dedicated high-magnification microscope for each spindle allows for simultaneous kerf check, which increases throughput.

Process Stability - Cutting Water Flow Control

- Cutting water flow is controlled by the recipe.
- Water flow is consistently maintained, aiding process stability.



LCD touch screen



Adjustable LCD

17% smaller footprint

DFD651(1.58m²)

DFD6340 (1.31m²)

DFD6340 Specifications

Workpiece Size		-	Max. ø8"
X-axis	Cutting range	mm	210
	Max. cutting speed	mm/s	600
Y1-axis and Y2-axis	Cutting range	mm	210
	Index step	mm	0.0001
Z1-axis and Z2-axis	Index positioning accuracy	mm	0.002/210 (Single error)0.002/5
	Max. stroke	mm	19.22 (For ø2"blade)
θ-axis	Moving resolution	mm	0.00005
	Repeatability accuracy	mm	0.001
Spindle	Max. blade size	mm	ø58
	Max. rotating angle	deg.	380
Applicable Tape Frame	Output	kW	1.2kW at 60,000 min ⁻¹
	Rated torque	N·m	0.19
	Revolution speed range	min ⁻¹	6,000~60,000
Utilities	Power supply	-	2-8-1
	Power consumption	-	-
Max. power	When processing	kW	2.1(for reference)
	During warm-up	kW	1.8(for reference)
Air pressure		MPa	0.5 ~ 0.8
Air max. consumption		L/min(ANR)	378.0
N ₂ Pressure		MPa	0.5 ~ 0.8
N ₂ Max. consumption		L/min(ANR)	216.0
Cutting water, water curtain and other	Pressure	MPa	0.3 ~ 0.4
	Max. flow rate	MPa	Cutting water: 12 Water curtain: 1 Other: 1 L/min
Cooling water	Pressure	L/min	0.2~0.4
	Flow rate	L/min	3.0 at 0.3 MPa
Exhaust duct capacity		m ³ /min	5.0
Machine dimensions (W x D x H)		mm	1,180 x 1,110 x 1,850
Machine weight		kg	Approx. 1,600 (without transformer for overseas use)
			Approx. 1,670 (with transformer for overseas use)

Environmental conditions

- Use clean, oil-free air at a dew point of -15 °C or less. (Use a residual oil: 0.1 ppm. Filtration rating: 0.01 μm/99.5 % or more).
- Keep room temperature fluctuations within ±1 °C of the set value. (Set value should be between 20 ~ 25 °C).
- Keep cutting water and cleaning water 2 °C above room temperature (fluctuations within ±1 °C).
- Keep spindle cooling water the same as room temperature between 20 ~ 25 °C (fluctuations within ±1 °C).
- The machines should be used in an environment, free from external vibration. Do not install machine near a ventilation opening, heat generation equipment or oil mist generating parts.
- This machine uses water. In case of water leakage, please install the machine on the floor with sufficient waterproofing and drainage treatments.
- All the pressures are described using a gauge pressure.
- The above specifications may change due to technical modifications. Please confirm when placing your order.
- For further information please contact your local sales representatives.



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