

Electro-Plated Diamond Wire

RTD Series

Application	Core Diameter (microns)	Diamond Size	Concentration	Outer Diameter (microns)
Sapphire and Alternate Material Wafering	120	10-20	Standard / High	149
		12-25	Standard / High	156
		22-36	Standard / High	169
	140	10-20	Standard / High	167
		12-25	Standard / High	174
		22-36	Standard / High	187
	160	12-25	Standard / High	192
		22-36	Standard / High	212
		30-40	Standard	221
	175	40-50	Standard	225
		22-36	Standard / High	225
		30-40	Standard / High	240
	200	40-50	Standard	256
		22-36	Standard	241
		30-40	Standard	257
		40-50	Standard	279

Additional Consumable Offerings*

Cutting Fluids

- WaferKool 2010
- WaferKool 3010

Saw Cleaners

- SawKleen

Beams

- IWT 710 beam
custom sizes available

Anti-Foam

- SAG 2001

Questions | Request for Quote

To facilitate your order, please provide the following information

Required information:

- Diamond wire
- Wire outer diameter or kerf
- Type of spool

Useful information, if known:

- Wire core diameter
- Wire speed
- Wire tension at slicing
- Diamond grit size
- Process time

*Detailed consumable product information can be provided upon request

Point of Contact:

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Designed and manufactured by IWT
Part of the Thermo Technologies Group



RTD Series

Ideal for Low to Medium Volume Production House or R&D Facility

Low Cost of Ownership and High Yield

- **Yield increase** resulting from minimally destructive low-kerf cutting method
- **Versatile equipment** for multi-use cutting
- **Increased wafer quality**, consistency, and quantity over single-cut technology
- **Low consumable costs** offer increased savings
- **Simplified maintenance** for increased availability
- **Cost-effective cutting method** reduces or eliminates secondary processes
- **Increased throughput** versus blade saws
- **Optimized wire management** reduces costs and wire usage

Quality Guarantee due to Process Management

- **Lowest set-up time on the market** for a multi-wire production saw
- **Flexible software** for a variety of materials
- **Recipe management** 32 programmable cutting programs provide increased throughput
- **Reproducible** high-quality cuts
- **Collection and data logging** standard on the RTD Series

Maintenance and environment friendly

- **Simple to maintain** due to accessibility and minimal parts
- **Quiet operation** benefits the operator and the environment
- **Ecological** use of all substances and media
- **Small footprint** - compact, maintenance-friendly design
- **Compliance** with relevant environment and safety standards (CE)



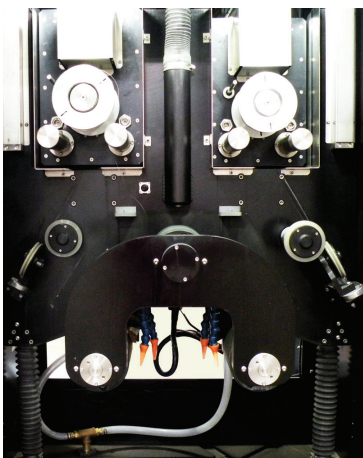
We reserve the right to make changes reflecting technical progress 1/2018



Features | Options | Data

Features

- 15 inch LCD touchscreen
- PLC control
- Flexible graphic user interface
- Splash guards to fully enclose the wire reels, reduces maintenance and extends machine life
- Fully CE compliant safety controls
- Password protected calibration and hardware setting screen
- Password protection for saved parameters
- Accomodates a variety of wire diameters
- 3-color light tower to indicate saw status
- Multiple wire break detection systems
- 32 programmable cutting programs



Options

- Extended web option, extends web to 225mm (pitch dependent)
- Application Engineering Assistance available for process development
- Precision table with two dovetails, eases mounting of the sample and maintains proper orientation
- Remote set-up and monitoring software via Ethernet
- Ingot-Mounting Station, a stand-alone unit, allows precise mounting of sample to sacrificial beam and dovetail. Simplifies and reduces set-up time
- Development and design consultation / custom fixturing
- Accumount Dovetail System for improved accuracy
- Manual 90° dicing table
- Rotation table and goniometer table are also available

Technical

Technical data at a glance

	RTD 6400	RTD 6800
Workpiece Dimensions (l x w x h)	150 mm x 100 mm x 200 mm	150 mm x 200 mm x 200 mm
Loading Length	150 mm - 225 mm (with extended web option)	
Workpiece Weight - max	180 kg	
Yoke Feed - min max	.0005 mm/s 1.5 mm/s	
Power Requirements	30 amp, 3-phase, 220 volt, 50/60 Hz	
Compressed Air	Pressure: 207 kPa (80 psi) Volume: 0.14 m ³ /min (5 cfm)	
Cutting Fluid Tank Capacity	110 l	

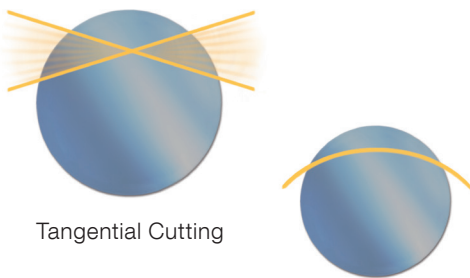
Summary of Benefits

Summary

- Smallest footprint available in a multi-wire saw (1.3 m²)
- Ideal for cutting hard and brittle materials such as: silicon, silicon carbide, quartz, fused silicon glass, ceramics, graphite, germanium, etc.
- 32 programmable cutting programs
- Processes ingots up to 225 mm long and up to 200 mm diameter
- Low kerf loss
- High throughput

Tangential Cutting

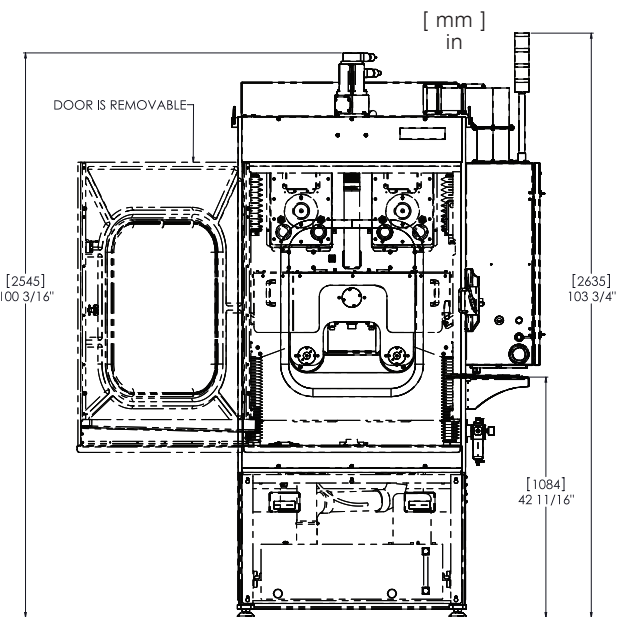
- 0° - 6° rock
- Lower TTV
- Faster cuts
- Superb surface finish
- Higher precision
- Reduced bow and warp



RTD Series Footprint

RTD 6400 - 6800

Front View



Top View

