

**MEYER BURGER**  
DW SLICING SYSTEMS

# Single Yoke Series

Multi-Purpose Shaping Saws

## Low Cost of Ownership & High Yield

- **Yield increase** resulting from minimally destructive cutting method
- **Material savings** based on potential kerf loss savings
- **Versatile equipment for multi-use cutting**, reduces and/or eliminates the need for additional equipment expenditures
- **Low consumable costs** offer increased savings
- **98% uptime**
- **Increased throughput** versus blade saws

## Quality guarantee due to process management

- **Tangential Cutting** – resulting in faster cuts, higher precision, superb surface finish, lower TTV and reduced bow and warp
- **Programmable software** – allows hands-free operation
- **Recipe management** – numerous independent process recipes can be stored
- **Reproducible results** – delivers high quality cuts
- **Reduced secondary process** – reduces grinding, polishing, and other secondary processes
- **Wire management** – ability to run different wire diameter sizes

## Maintenance and environment friendly

- **Standards** – we meet today's standards and set the benchmark for the future
- **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
- **State of the Art** – compliance with relevant environment and safety standards (CE)

# RTS Series and CR Series

High speed precision shaping



## RTS Series

### Efficient Design

- Compact, tabletop design
- Table indexing capability 110%
- Maximizes wire usage

### RTS 440 and 480

- Width: 750 mm
- Depth: 597 mm
- Height: 1168 mm

### RTS 880

- Width: 902 mm
- Depth: 800 mm
- Height: 1448 mm



## CR Series

### Flexible cutting system

- Choose from a single crop cut or optional 3-motor cutting system, which produces 2 wafer samples with each crop cut

### Ingot support system

- Manually positioned table and V-blocks for work supports maintain tight control of the ingot to minimize breakout, cracking or edge chipping
- Manually positioned table

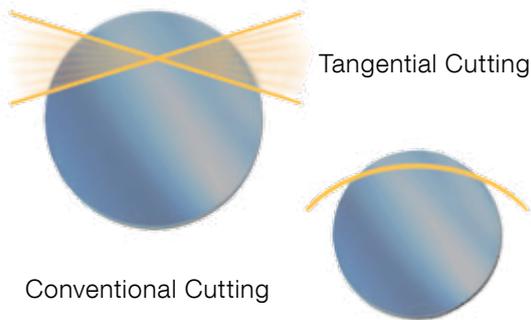
### CR 150

- Width: 1.15 m
- Depth: 1.2 m
- Height: 2.4 m

# Summary of Benefits

## Summary

- Ideal for cutting hard and brittle material such as: silicon, sapphire, silicon carbide, quartz, fused silicon glass, ceramics, graphite, germanium, etc.
- Increased working speed over conventional slurry saws
- Reproducible results deliver high quality cuts
- Efficient wire usage - increases cutting speed and enables wire changes in minutes
- Holds up to 6 km of diamond wire (140  $\mu$ m wire)
- Wire break detection comes standard



## Tangential cutting

- 1° - 6° rock
- Faster cuts
- Higher precision
- Superb surface finish
- Lower TTV
- Reduced bow and warp



## Diamond wire max. capacity

- 140  $\mu$ m - 6 km
- 200  $\mu$ m - 5 km
- 250  $\mu$ m - 3 km
- 310  $\mu$ m - 1.9 km
- 350  $\mu$ m - 1.2 km

# Cutting Data

## Cutting data at a glance

	RTS 440, 480, 880	CR 150
Diamond wire	140 $\mu$ m, 200 $\mu$ m, 250 $\mu$ m, 310 $\mu$ m, 350 $\mu$ m	200 $\mu$ m, 250 $\mu$ m, 310 $\mu$ m, 350 $\mu$ m
Yoke feed rate: min. / max.	0.015 mm/min / 10.69 mm/min	0.08 mm/min / 11.4 mm/min
Wire Speed: min. / max	76.2 m/min / 650 m/min	76.2 m/min / 650 m/min
Rock	0 - 6 degrees	0 - 6 degrees
Yoke travel distance (for cutting)	RTS 440 = 100mm; RTS 480 = 200mm; RTS 880 = 300mm	CT 150 = 450mm

# Accessories / Options / Technical

## Accessories

- Accommodates a variety of diamond wire sizes
- Spray system - improves wire life and increases cut quality - RTS Series
- Door interlock switch for added safety
- Wire break detection system
- Tangential cutting: allows rock from 0 - 6 degrees
- Numerous process recipes programmable through LCD interface

## Options

- Automatic Dicing Table with variable angle selection - 100 mm and 200 mm versions available - RTS Series
- Ingot Mounting System - Allows precise mounting of sample to sacrificial beam and dovetail - RTS Series
- Manual 90 degree table - allows manual positioning to make successive cuts at 90 degrees - RTS Series
- Multi-wrap, 3-motor option - produce 2 wafer samples in addition to the crop cut - CR 150
- Additional V-Blocks, manually adjustable - CR 150
- Optional Table Lengths - 1.0 meter and 1.5 meter lengths available - CR 150

## Technical

### RTS 440, 480, 880 - Technical data at a glance

	RTS 440	RTS 480	RTS 880
Workpiece dimensions (l x w x h)	200 mm x 100 mm x 100 mm	200 mm x 200 mm x 200 mm	300 mm x 300 mm x 300 mm
Loading length	200 mm	200 mm	300 mm
Workpiece weight - maximum	100 kg		
Cutting feed - maximum / minimum	10.5 mm / 0.06 mm		
Loading / unloading	manual / manual		
Power Requirements	20 amp, single phase, 208–230 volts, 50/60 Hz		
Compressed Air	Pressure: 550 kPa Volume: 0.14 m <sup>3</sup> / min		
Coolant Tank Capacity	60 L		

### CR 150 - Technical data at a glance

	CR 150
Workpiece dimensions (l x w x h)	450 mm* x 450 mm x 450 mm (*optional 1500 mm)
Loading length	450 mm x 1500 mm
Workpiece weight - maximum	600 kg
Cutting feed - maximum / minimum	10.5 mm / 0.06 mm
Loading / unloading	manual / manual
Power Requirements	20 amp, single phase, 208–230 volts, 50/60 Hz
Compressed Air	Pressure: 550 kPa Volume: 0.14 m <sup>3</sup> / min
Coolant Tank Capacity	94 L