



## **BRYANT RU2**

High performance multi-surface  
grinders

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# BRYANT RU2

## Multi-surface grinder

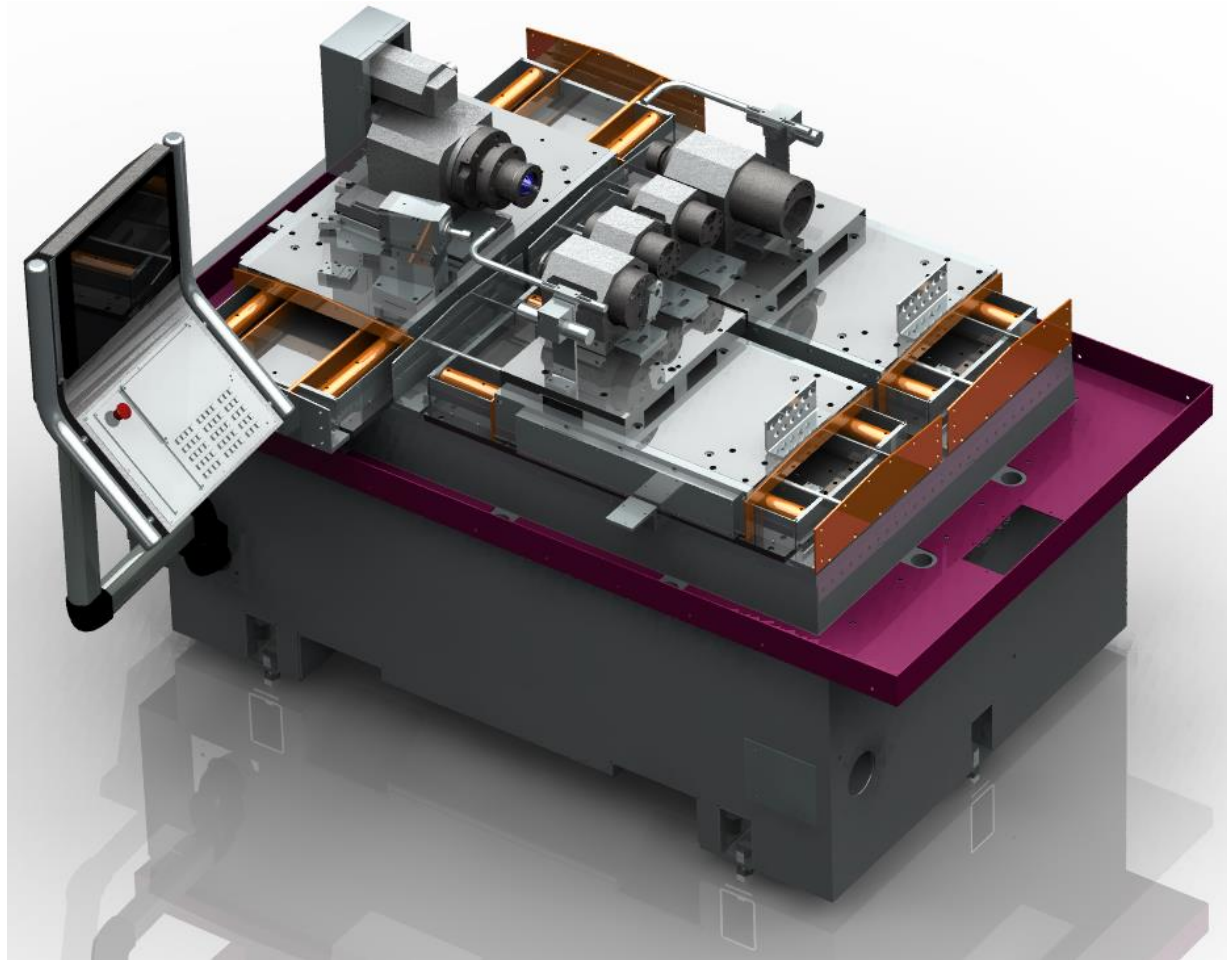
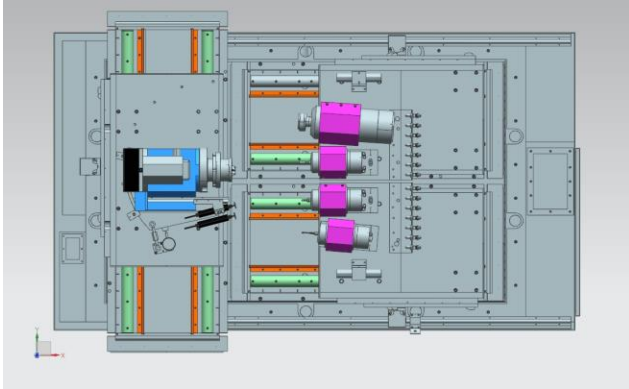
- Ultimate flexibility to grind several geometrically related features in a single chucking
- Ideal for bore, seat & face applications (fuel systems, valve train, bearing, turbochargers, etc.)
- Modular design for various machine configurations
- Dual-slide arrangement in Z-axis can accommodate up to 6 grinding spindles
- Spindle speeds up to 120,000 RPM
- Available configuration:
  - Chucker Shoe
  - Chucker



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## Slide Arrangement

- Up to 6 spindles on 2 slides
- Independent slides
- One or two workheads



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## Specifications

Grinding capacity	
Max. swing diameter	250 mm <sup>(1)</sup> (9.8")
Max. workpiece length	177 mm (7")
Max. internal grinding diameter	228 mm (9")
Max. internal grinding depth	88 mm (3.5")
Spindles & workhead	
Max. number of spindles	4
Max. ID spindle speed	120,000 rpm
Max. workhead speed	3,000 rpm

Axes & control	
Axis travel X	508 mm (20")
Axis travel Z	2 x 254 mm <sup>(2)</sup> (0.08" x 10")
Axis speed (X & Z)	24,000 mm/min (79 ft/min)
Axis arrangement	Independent
Control	Fanuc i series
Dimensions	
Dimensions (W x D x H)	2,440 x 1,520 x 2,110 mm (8' x 5' x 7')
Machine weight	6,300 kg (13,889 lb)

(1) The biggest possible part diameter can vary, depending on application and part geometry  
(2) Dual slide arrangement

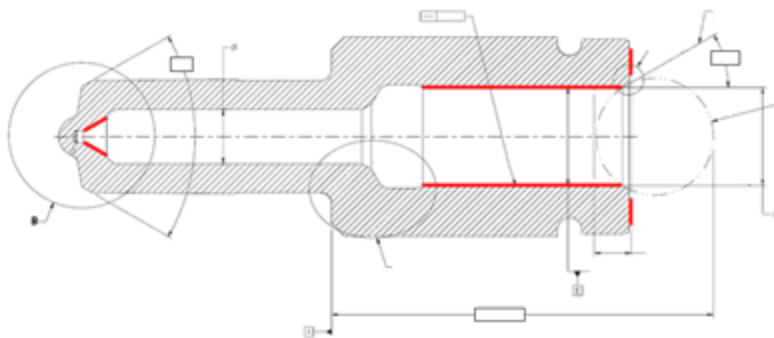
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## Sample Applications



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## Injector Nozzle



Tolerances	
Bore	+/- 0.005 mm
Bore run-out	0.0028 mm
Bore roundness	0.0013 mm
Bore finish	Ra 0.25
Seat run-out (to bore)	0.005 mm
Seat roundness	0.002 mm
Seat angle (gage height diff.)	+/- 0.0023 mm
Seat finish	Ra 0.3
Face flatness	0.003 mm (convex)
Face parallelism (to shoulder)	0.02 mm
Cpk	> 1.67