

Solutions for Semi-conductor manufacturing market

2024-04-24

Equipment Selection Guide : PL 800GB / SL 1000GB with ATC



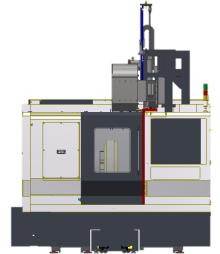


- **1. High Precision grinding process**
- 2. Easy to handle dust and sludge after processing
- 3. Suitable for round ring products
- -SiC, Quartz grinding

SMEC

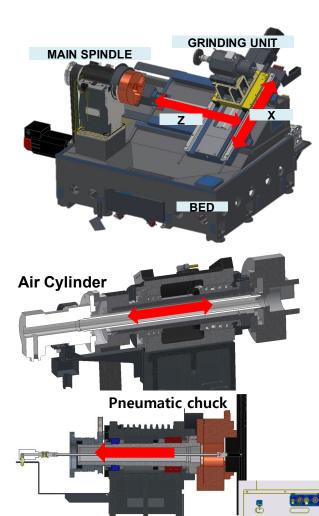
Air cylinder and pneumatic chuck to reduce material breakage

Minimal chucking force applied to the material







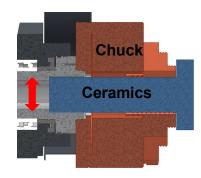


VACUUM UNIT

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-.Ceramics grinding (heater etc.)



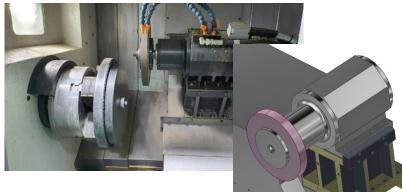
Expanded spindle bore (Ø82max) to secure workpiece

- **1. High Precision grinding process**
- 2. Easy to handle dust and sludge after processing
- 3. Suitable for round ring products
- -Ceramics grinding
 - Φ 82 spindle bore to secure the workpiece
- -CVD SiC grinding

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Flange type Built-in-spindle for CV SiC grinding

-.CVD SiC Grinding



FLANGE TYPE Built-in Spindle (High power) for CVD SiC grinding

SMEC's internally designed Rotary Table : SBRT 350 & SBRT 450



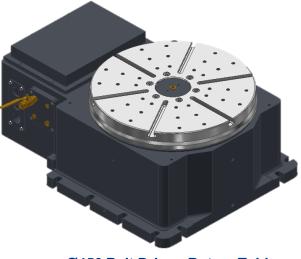


- Ø350 Belt Driven Rotary Table
- Ø100x223L Center Bore Hole

[Note]

- Belt driven rotary table for precise turning applications (300 rpm)
- Minimized backlash against worm-gear type rotary tables.
- Highly dustproof design to protect internal parts from abrasive sludges
- High column machining center design to offset Z axis travel (column riser block)





Ø450 Belt Driven Rotary Table
 Ø100x213L Center Bore Hole

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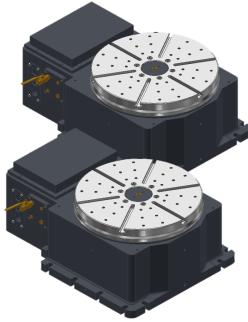
Equipment Selection Guide : MCV Series with Rotary Table x 1



Equipment Selection Guide : MCV Series with Rotary Table x 2



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- Ø450 Belt Driven Rotary Table
 Ø450 Belt Driven Rotary Table
- Ø100x213L Center Bore Hole

Item		Unit	Standard
l	Stroke (X/Y/Z)	mm	1,600 / 570 / 520
	Spindle – Table-top Distance	mm	150 ~ 670
	Rapid Traverse (X/Y/Z)	m/min	30 / 36 / 30
e	Taper	-	CAT 40 (BBT 40)
	Max spindle speed	rpm	12,000
	Motor Output (Cont./Max)	kW	11 / 18.5 (S3 25%)

Why 2 rotary tables in 1 machine?



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- 1 Operator can handle maximum of 3 machines per shift due to setup requirements
- However, by installing 2 rotary tables for each machine, a single operator can now handle five to six machines per shift due to increased cycle time.
- This adjustment will lead to decreased labor costs and significantly improved cost-to-profit margins.