			FC-200D	FC-300D	FC-500D	
		Tip Grinding Radii	0 to 6mm (0.236")	0 to 8mm (0.315")	0 to 8mm (0.315")	
Grinding Capabilities	Tool	Round Tool Shank Diameters	Diameters: 3 mm (0.118") to 26 mm (1.02")			
		See options below	- Requires Round Tool Grinding Attachment Option			
		Shank Types	Tools with integral shanks (#40, HSK63, etc.)			
		See options below	- Requires Fine Round Tool Grinding Attachment			
	Tool Materials	Polycrystalline Diamond (PCD)	✓			
ling		Thick-film Diamond (CVD)	✓	✓	✓	
ind		Polycrystalline Cubic Boron Nitride (PCBN)	✓	✓	✓	
Ō		Tungsten Carbide	✓	✓	✓	
		High Speed Steel	✓	✓	✓	
		Speed (RPM)	0 to 3600			
	Grinding Spindle	Power	3 HP, 3-Phase, 220 V, 60 Hz (2.2KW)			
		Height Adjustment (Vertical Travel)	,	130mm (5.12")	, 130mm (5.12")	
	Grinding Wheel	Oscillation Frequency (Strokes/Minute)	0 to 50	0 to 50	0 to 50	
		Oscillation Stroke	0 - 35mm (1.378")	0 - 50mm (1.969")	0 - 60mm (2.362")	
		Oscillation Stroke Range	0 - 130mm (5.118")	0 - 210 mm (8.268")	0 - 420mm (16.535")	
	ing	Inclination Angle	-3° to 25°	-3° to 25°	-3° to 25°	
	Grind	Motorized position & stroke	Push button controls on operator console N/A			
		Grinding Wheel Size	150 X 40 X 40mm (6 X 1.5 X 1.5 ")			
	e]e	Cross table clamping surface	210mm (8.27 in.) X 160mm (6.30 in.); with 4 "T" slots			
		Cross table slides	Travel up to 95mm (3.74 in.) each			
		Controlled infeed travel - up to	55mm (2.29 in.)	75 mm (2.953")	130mm (5.118")	
	Tak	Rapid travel	To/From grinding p	osition (pneumatic) up	to 70mm (3.15 in.)	
	Work Table	Cross table swiveling angle - up to	200°	200°	200°	
		Cross table hand wheel division	0.01mm (0.00039")(1μ)			
		Grinding force pressure regulator	Quickly adjustable from 0 to 450N (101 lbs.) - pneumatic			
		Slideway bearings	Anti-friction (Schneeberger)			
	Š Š Š	Infeed (switchable)	0.001mm (0.00005")			
E	DRO (2-Axis)	Swivel Angle	0.05 degrees (3 minutes) increments			
Machine Data	Video System	Video optical measuring system with zoom	15X to 120X magnification range with B&W monitor.			
ine			Note: The system moves with the worktable and shows the work piece in			
ach		With 20011	both the grinding and the retracted positions			
Ĕ	Standard Accessories	Work lights	Two halogen light units mounted on adjustable joint arms			
		Standard quick-clamping fixure	Comes with 4 tool holders in sizes:			
		(Solid base is for conical relief only)	13, 20, 26 & 32mm (½, ¾, 1,1-¼")			
		Air operated brake for pivot	Button (standard)			
			Foot pedal activated	<u>-</u>	ed brake to shorten	
			brake to speed	_	ng time.	
			grinding time (option)	Locks pivot angle	at desired position.	
		Coolant system	400 !!! /05 4 . !)			
		Paper roll filter & 5µ cartridge filter	100 liters (26.4 gal.)			
		Splash shield	Plastic window on flexible arm with magnetic base			
		Central lubrication system	Capacity .75 liters (25 oz) (auto operated)			
	Dimensions (Width X Depth X Height)	Machine	1340 X 1300 X 1900mm	1800 X 1600 X 1800mm	1830 X 2190 X 1920mm	
			(52.75" X 51.2" X 74.8")	(52.75" X 51.2" X 74.8")	(72" X 86.2" X 75.6")	
		Machine in crate	163cm x 158cm x 191cm (64.2" x 62.2" x 75.2")	173cm x 173cm x 185cm (68.1" x 82.3" x 72.8")	224cm x 209cm x 200cm (88.2" x 82.3" x 78.7")	
		Machine	·	·		
	Weights	Machine alone	1320 kg (2910 lbs)	1500kg (3307 lbs)	2160 kg (4762 lbs)	
		Machine crated	1560 kg (3440 lbs)	1740kg (3840 lbs)	2400 kg (5291 lbs)	
		Coolant system alone Coolant system crated	62 x 60 x 110 cm (24.4" x 23.6" x 43.3") 77 x 75 x125 cm (30.3" x 29.5" x 49.2")			
		Coolant System Clated	// x /5 x125 till (30.3 - X 29.5 - X 49.2 -)			

Subject to change without notice. 12/10/2015

Rush Machinery PCD Grinders

			FC-200D	FC-300D	FC-500D
Options	Brake Truing Device	Offset bracket enables mounting in standard or optional quick-clamping fixtures	✓	✓	✓
	Motorized Brake Truing Device	Enables wheel truing without changing the tool set up			✓
	Universal Work Table	Rotates and inclines in 3 planes	✓	✓	✓
	Universal Quick-Clamping Fixture	Rotates 360 degrees and inclines -20 to +20 degrees in two planes to allow conical relief, cylindrical relief, or a combination of both.	✓	1	*
	Motorized Round Tool Grinding Attachment	0-60 rpm variable speed drive and 24-position dividing plate (other divisions available). Comes standard with (23) ER-40 collets to hold shank sizes from 3mm (1/8 in.) to 26mm (1 in.).	✓	1	√
	Fine Round Tool Grinding Attachment	With #40 or HSK63 taper spindle and fine adjustment of angle. Comes with a 24-position index plate (other divisions available) and removable tail center Other spindle tapers available.			✓

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