

RushMachinery

Grind better.



Wheel Dressing Machines

Simple to operate, highly accurate and cost effective



IMTS2024
Booth 237233

rushmachinery.com • Since 1983

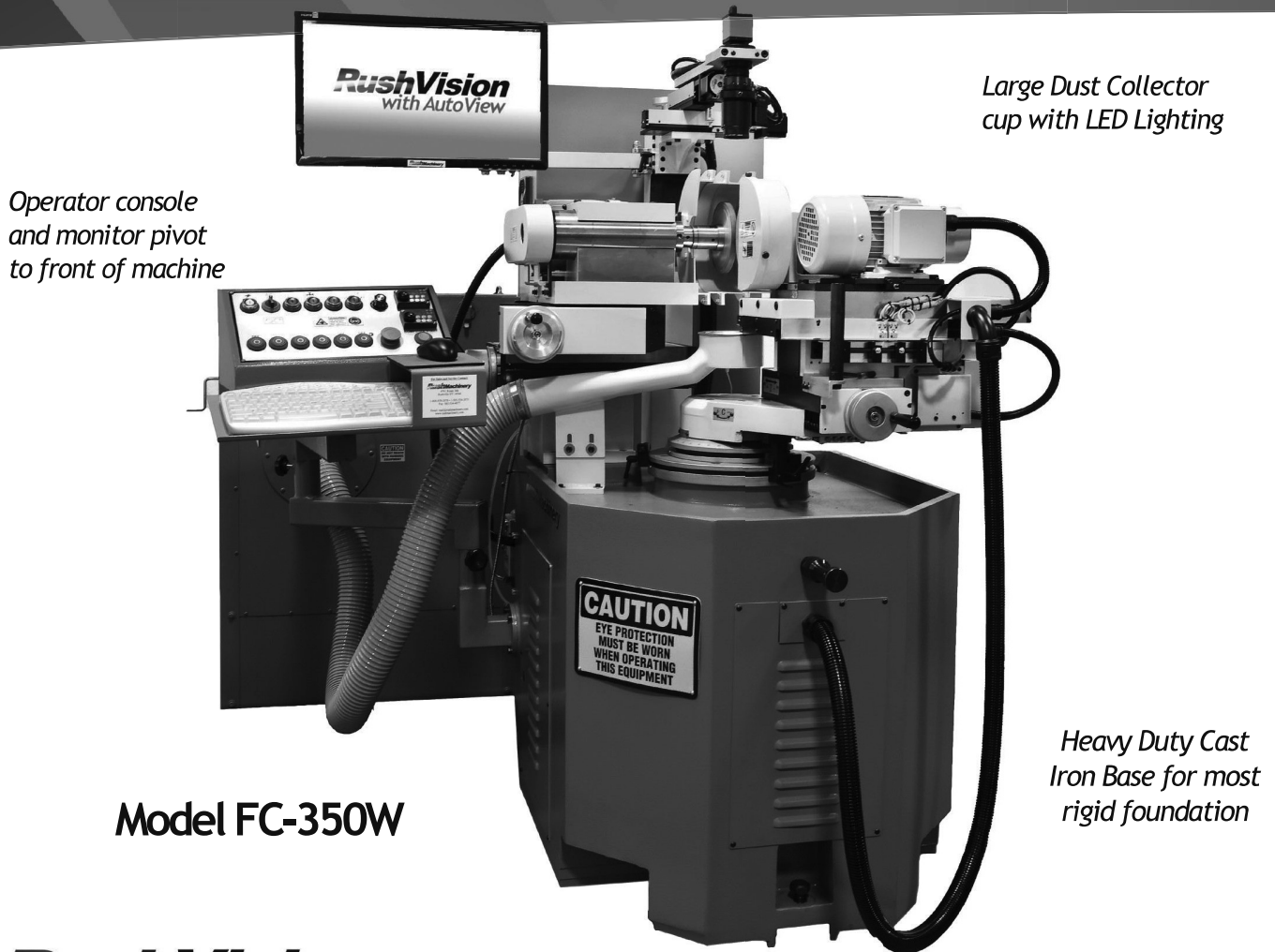
(800) 929-3070 • + 1 (585) 554-3070

mail@rushmachinery.com • Rushville, NY USA

Proud member:

AMT
THE ASSOCIATION FOR
MANUFACTURING TECHNOLOGY

For truing and dressing of flats, angles, and radii on diamond and CBN single and multiple wheel packs.



Operator console and monitor pivot to front of machine

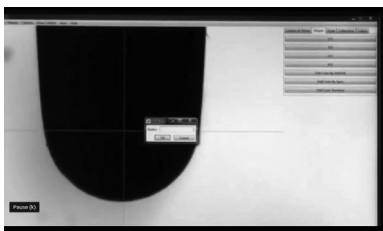
Large Dust Collector cup with LED Lighting

Model FC-350W

Heavy Duty Cast Iron Base for most rigid foundation

RushVision

with optional AutoView



- ***AutoView:*** Used to move the camera over a feature of interest, saving time and increasing accuracy
- ***High Magnification:*** Three magnification systems (camera and optics) to choose from

***Dress both the diameter and the side of the wheels without taking the wheel packs apart!
Dressing wheel pivots +15/-10 degrees. Can dress up to 5 degrees back taper between wheels.***



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Model FC-350EX

EX models are fully enclosed and are PLC controlled

Our proven commitment to quality, service, and innovation has made us an industry leader since 1983.

The larger FC-700W and FC-700EX for wheels up to 28"



Model FC-700W

Options and accessories:



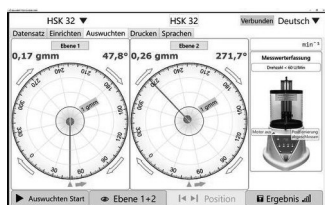
Mist Coolant Option: Apply coolant directly to the diamond wheel surface to improve bond removal and increase dressing efficiency.

Dust Collection System: A 500 CFM dust collector removes the majority of the grinding wheel dust.



Spindles: BT40, HSK50E, HSK50A/C, HSK63A/C, BT50, Walter Power, Sopko and more.

Adapters: Over 130 designs for virtually any grinder made. The most popular items are in stock.



On Machine Balancing: Essential for precision applications

FC-350W Guarding: 4 clear acrylic pivoting sections allow for easy access. Retrofit available, performed by a Rush service engineer.



Rush Machinery provides top quality products and service that help people grind better.

Rush Machinery Wheel Truing and Dressing Machines - Specifications

	Model:	FC-350W	FC-350EX	FC-700W	FC-700EX
	Spindle Options:	BT40 / BT50 / HSK50A/C / HSK50E / Walter Power / Sopko / Others Available			
	Standard Features:				
Diamond/CBN wheel	Min. diameter:	0" (0 mm)			
	Diameter range	Adjustable ranges from 0-14" (350 mm) and 2"-16" (400 mm)		28" (700 mm) or 42" (1070 mm) larger capacity option	
	Max. width	3" (76 mm)		4" (100 mm)	
	Max. wheel pack length (OAL)	8" (203 mm)			
	Speed (Infinitely variable & reversible)	100-1200 rpm			
	Motor power	2 hp (1.5 kW)		3 hp (2.2 kW)	
	Radius	0 to 2-7/8" (0 to 73 mm)			
	X axis travel	8-3/4" (222 mm)		7-7/8" (200 mm)	
	Y axis travel	7-1/2" (190 mm)		15" (380 mm)	
		Optical linear scales with display counter for X & Y axes	0.0001" (0.002 mm) increments		
	Maximum wheel/wheel pack and adapter weight	ISO40: 175 lbs (80 kg) / HSK50A/C/E: 55 lbs (25 kg) / ISO50: 265 pounds (120 Kg)			
Truing/ Dressing wheel	Maximum Dimensions	10" (254 mm) dia., 3/4" (19 mm) wide, 1-1/4" (31.75mm) bore		10" (254 mm) dia., 1" (25.4 mm) wide, 1-1/4" (31.75 mm) bore	
	Pivoting Dressing Wheel Head for dressing hard-to-reach points	+15°/-10°			
	Speed (Infinitely variable)	200- 2400 rpm			
	Oscillation frequency (Infinitely variable)	0-50 strokes/minute (63 RPM)			
	Oscillation stroke	0 to 3-1/2" (0 to 89 mm)		0 to 4-1/2" (0 to 120 mm)	
	Oscillation lockout brake	Standard	N/A	Standard	N/A
	Motor power	1 hp (0.75 kW)		2 hp (1.5 kW)	
	Dressing wheel swiveling and infeed	Manual	Automatic	Manual	Automatic
	Angular reader	0.035° increments			
	Infeed axis travel	3-1/4" (85 mm)		5-7/8" (150 mm)	
	Machine Weight	2,200 lbs (1,000 kg)	2,400 lbs (1,090 kg)	4,410 lbs (2,000 kg)	4,910 lbs (2,240 kg)
	Crated Weight	2,800 lbs (1,270 kg)	3,000 lbs (1,360 kg)	4,410 lbs (2,000 kg)	5,025 lbs (2,280 kg)
	Electrical system	200/220-240 V or 440V-480V, 3-phase, 50/60 Hz			
	Instruction and parts manual	Standard			
	One-year limited warranty	Standard			
		RushVision Features:			
	Preset automatic power zooming control system:				
	10X, 30X & 60X	Standard			
	30X, 60X & 120X or custom	Option			
	High resolution B/W camera	Standard			
	CAD drawing of diamond wheel profiles	Standard			
	Industrial PC, Windows OS, solid-state drive & 22" HD monitor	Standard			
	Sealed LED Ring Light	Standard			
	Machine setup and training by Rush Personnel	Standard			
	Additional equipment:				
	Dust Collection System	Option			
	Mist Coolant System	Option			
	Auto-View camera positioning	Option	Standard	Option	Standard
	On Machine Balancing	Option	Option	Option	Option
	FC-350W Guarding	Option	N/A	N/A	N/A

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PÁGINA 1

RushMachinery — Retifique melhor. **RushVision** com AutoView.

CUIDADO.

Máquinas de Dressagem de Rebolos Simples de operar, altamente precisas e econômicas.

IMTS 2024 — Estande 237233. **rushmachinery.com** — Desde 1983. Rushville, NY, EUA. Membro orgulhoso: **AMT - Tecnologia de Manufatura**.

PÁGINA 2

Para retificação e dressagem de planos, ângulos e raios em pacotes de rebolos únicos ou múltiplos de diamante e CBN.

- **Console do operador e monitor:** Articulam-se para a frente da máquina.
- **RushVision com AutoView:**.
- **Modelo FC-350W.**
- **CUIDADO:** Proteção ocular deve ser usada ao operar este equipamento.
- **Coletor de Pó:** Copo grande com iluminação LED.
- **Base de Ferro Fundido Pesado:** Para uma fundação mais rígida.

RushVision

- **AutoView (opcional):** Usado para mover a câmera sobre uma característica de interesse, economizando tempo e aumentando a precisão.
- **Alta Ampliação:** Três sistemas de ampliação (câmera e óptica) para escolher.

Destaques:

- Dresse tanto o diâmetro quanto a lateral dos rebolos sem desmontar os pacotes de rebolos!.
 - O rebolo de dressagem gira entre +15/-10 graus. Pode dressar até 5 graus de conicidade traseira entre os rebolos.
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PÁGINA 3

- **Modelos EX:** São totalmente fechados e controlados por CLP (Controlador Lógico Programável).
- **Modelos Maiores:** FC-700W e FC-700EX para rebolos de até 28".
- **Compromisso:** Nosso compromisso comprovado com a qualidade, serviço e inovação nos tornou líderes do setor desde 1983.

Opções e Acessórios:

- **Opção de Névoa de Refrigeração:** Aplica refrigerante diretamente na superfície do rebolo de diamante para melhorar a remoção de resíduos e aumentar a eficiência da dressagem.
- **Sistema de Coleta de Pó:** Um coletor de pó de 500 CFM remove a maior parte do pó do rebolo.
- **Eixos (Spindles):** BT40, HSK50E, HSK50A/C, HSK63A/C, BT50, Walter Power, Sopko e outros.
- **Adaptadores:** Mais de 130 designs para praticamente qualquer retificadora fabricada.
- **Balanceamento na Máquina:** Essencial para aplicações de precisão.
- **Proteção FC-350W:** 4 seções articuladas de acrílico transparente permitem fácil acesso.

PÁGINA 4: ESPECIFICAÇÕES TÉCNICAS

Característica	FC-350W / FC-350EX	FC-700W / FC-700EX
Opções de Eixo	BT40/BT50/HSK/Walter/Sopko	(Igual)
Faixa de Diâmetro	0" a 14" (350 mm)	2" a 16" ou até 42"
Largura Máx. Rebolo	3" (76 mm)	4" (100 mm)
Velocidade do Rebolo	100-1200 rpm	(Igual)

Característica	FC-350W / FC-350EX	FC-700W / FC-700EX
Potência do Motor	2 hp (1.5 kW)	3 hp (2.2 kW)
Curso do Eixo X	8-3/4" (222 mm)	15" (380 mm)
Curso do Eixo Y	7-7/8" (200 mm)	7-1/2" (190 mm)
Frequência de Oscilação	0-50 cursos/min	(Igual)
Peso da Máquina	~1.000 kg	~2.000 - 2.240 kg

Recursos RushVision:

- Controle de zoom motorizado predefinido (10X, 30X, 60X).
- Câmera P&B de alta resolução.
- Desenho CAD dos perfis dos rebolos de diamante.
- PC Industrial, Windows, SSD e monitor HD de 22".
- Iluminação em anel de LED selada.