

**ROYSON ENGINEERING COMPANY**  
**130 N. PENN ST. HATBORO, PA. 19040**  
**PH# 215-675-2800 FAX# 215-675-3035**  
**SPECIFICATION SHEET #993**  
**CDF CENTRIFUGAL DISC FINISHING MACHINE**

1/1/10

**UTILIZATION**

These machines are designed for surface finishing of a multitude of parts, where a higher quality of finishing in a short time cycle is required.

In particular they are used for deburring, smoothing, polishing, cleaning of small to medium sized parts. The high energy created with these machines allows for very fast time cycles compared to vibratory finishing.

**DESCRIPTION OF THE MACHINE**

The machine consists of :

- Bowl & Disc: made of carbon steel lined with 95 UROMETER HOT POUR polyurethane.
- Adjustable gap ring on 60,120,200,450.
- Supporting base: consists of a heavy welded Steel structure.
- Electric control panel.

**STANDARD FEATURES**

- Spinning disc inside the bowl creates high centrifugal forces from the media to the parts.
- Reduced work cycles.
- High quality finishing.
- High versatility for different applications.
- Around the clock operation and duration reliability.
- Electronic variable speed drive allows precise adjustment of the speed of media rotation.

- Bowl & Disc lined with oil-proof anti-abrasive hot poured 95 durometer polyurethane.
- Drain hose for water/compound discharge.
- Dual opening spray fitting for discharging compound and fresh water into the work chamber.
- Large handle allows tilting of the bowl for emptying media and parts on the 20 & 60 models. Electric motor drive allows tilting of the bowl on the 200 model. Optional pneumatic tilting available on the 20 & 60 models.
- Electric control panel mounted on the side of the machine base in compliance with CE regulations.
- Capable of setting timed work cycle upon specific requirements.
- Fast and simple maintenance.
- Drive motor and gear reducer are lubricated with grease.
- Compound dosing pump on all wet models.
- All models can be purchased for wet or dry processing. Add a "D" or "W" at the end of the model number to designate a wet or dry machine.

**ELECTRIC SYSTEM**

- 24 V control circuits. IEC components.
- Complete electrical schematic
- Hour-meter, disconnect switch, start/stop pushbuttons, emergency stop button, work cycle timer. On-off dosing pump switch.

<b>MODEL #</b>		<b>CDF-20</b>	<b>CDF-60</b>	<b>CDF-120</b>	<b>CDF-200</b>	<b>CDF-450</b>
<b>BULLETIN #</b>		<b>836</b>	<b>837</b>	<b>838</b>	<b>839</b>	<b>840</b>
Bowl capacity	Cu. Ft.	.3	1.2	2.2	4	6
Bowl internal diameter	in	13.3	19.5	25.5	30	37.8
Disc speed	rpm	0-400	0-300	0-180	0-180	0-150
Motor power	HP	2	4	5	10	25
Motor Voltage	Volts	208 230/460	208 230/460	208 240/460	208 230/460	208 240/460
Frequency	Hz	60	60	60	60	60
Overall Dimensions L x W x H	in	45x31.8x61	39x49x58.5	47x41x65	55.5x65.2x67.2	71x69x63
Parts discharge height	in	24	23	23	25	24
Machine Weight	lbs	385	1035	1495	2865	4895