

# VOELLER

## V-BELT DRIVE CYCLO-MIXERS

- Proven design, quality construction keep productivity high.
- V-belt contributes to quieter operation.
- Torsion bar mounted mixer arms reduce stress and wear on mixer arms, paddles and liners.
- Available in capacities from 1/2-yd (382 l) to 4-yds (3058 l) for concrete applications, 3-yds (2294 l) and 5-yds (3823 l) for industrial applications.
- Unsurpassed parts and service support.



### SPECIFICATIONS

#### MIXING ASSEMBLY

Fully adjustable paddles are cast Ni-Hard. Inner and outer wall scrapers clean constantly. Mixing arms are hard faced for extended life. The mixing arms are attached to the spinner by a journal that is attached to the torque bars which help reduce shock loading and wear. The journal stop and preload stop apply a preload torque to the torque bar.

#### MIXING TANK

All welded construction. Replaceable ARS liner plates. Replace floor liners without removing wall liners. Reversible wall liners.

2 yard, V-belt drive Model 650VB Cyclo-Mixer with standard discharge door guard. Optional discharge door dust enclosure shown below.



#### DISCHARGE DOORS

Air actuated semi-circular slide door is standard. Manually actuated doors optional on models 170VB and 350VB. Multiplies of up to three doors standard (none on motor quadrant).

Important: Mixers shown may have covers and enclosures removed. All covers and enclosures must be in place when operating.

## SPECIFICATIONS (CONTINUED)

### DRIVE MOTOR AND STARTER

Standard motors under 100 HP are 230/460 volt 3 phase, 60 Hz, 1800 RPM, TEFC. Motors over 100 HP are 230/460 volts, encapsulated.

Model		Motor HP		Starter Size**	
		Std.	Opt.	230V	460V
170VB	1/2-cu yd (382 l)	25	-	#3	#2
350VB	1-cu yd (764 l)	40	50	#4	#3
650VB	2-cu yd (1529 l)	60	75	#5	#4
1000VB <sup>†</sup>	3-cu yd (2294 l)	75	-	#5	#4
1350VB	4-cu yd (3058 l)	125*	-	#6	#5
1620VB <sup>†</sup>	5-cu yd (3823 l)	125*	-	#6	#5

\*Encapsulated motor. All others are TEFC.

\*\*Recommended full voltage starter for the drive motor selected. Contact your electrical contractor for local electrical codes and your requirements. Important: The oil pump motor must be started before the drive motor.

<sup>†</sup>Industrial applications only.

### POWER REQUIREMENTS

Incoming and in-plant wiring must be sufficient to eliminate peak load voltage drop. Wire sizes should be in accordance with National Electric Code, NFBU Standard and local codes.

Always consider other motors and equipment as well.

### OIL PUMP MOTOR

Cyclo-Mixers are equipped with a forced lubrication system. Motor is 1/2 HP, 208-220/400 volt, 3 phase, 50-60 Hz, 1725/1425 RPM. Oil pump motor must start before the drive motor.

### FLOW METER

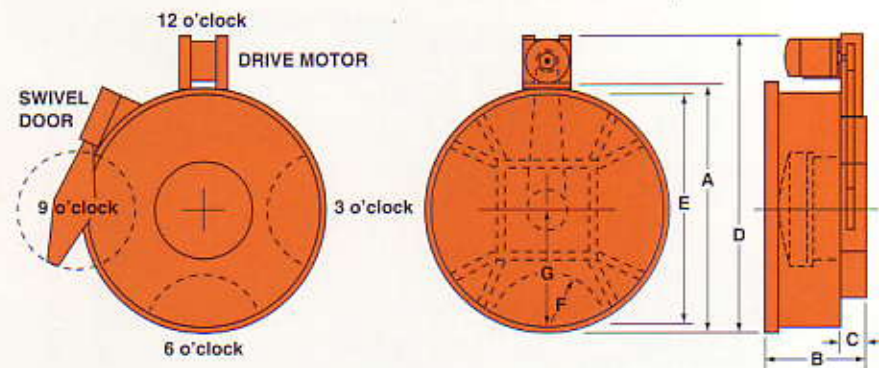
The flow meter will indicate the amount of oil being pumped to the top bearing of the gearbox. The gearbox is lubricated by flow through system.

The flow meter should be wired to shut down the main drive motor if oil flow drops to .3 of a gallon.

Door operating valves, limit switches and flow meter operate on 120 volts. Special voltage or Hertz requirements will be quoted on request.

### AIR REQUIREMENTS

The standard air cylinder operating the discharge door requires a 80-100 PSI supply. In low pressure situations, an optional larger cylinder is available for all models except Model 170VB.



### DIMENSIONS

Description	Model 170VB	Model 350VB	Model 650VB	Model 1000VB	Model 1350VB	Model 1620VB
	1/2-cu yd (382 l)	1-cu yd (764 l)	2-cu yd (1529 l)	3-cu yd (2294 l)	4-cu yd (3058 l)	5-cu yd (3823 l)
A. Outside Diameter	68.1 (173.0)	91.0 (231.1)	109.8 (278.9)	109.8 (278.9)	131.9 (335.0)	131.9 (335.0)
B. Charging Height	29.5 (74.9)	38.0 (96.5)	43.0 (109.2)	49.0 (124.5)	44.0 (111.8)	50.0 (127.0)
C. Base Height	8.0 (20.3)	10.0 (25.4)	10.0 (25.4)	10.0 (25.4)	10.0 (25.4)	10.0 (25.4)
D. Maximum Width	88.6 (225.0)	114.8 (291.6)	135.5 (344.2)	135.5 (344.2)	164.0 (416.6)	164.0 (416.6)
E. Inside Tank Diameter	64.0 (162.6)	86.8 (220.5)	105.5 (268.0)	105.5 (268.0)	127.0 (322.6)	127.0 (322.6)
F. Swivel Door Radius	16.5 (41.9)	23.0 (58.4)	23.0 (58.4)	23.0 (58.4)	30.0 (76.2)	30.0 (76.2)
G. Machine Center to Door Center	34.5 (87.6)	46.0 (116.8)	55.4 (140.7)	55.4 (140.7)	66.5 (168.9)	66.5 (168.9)

Dimensions shown are approximate.



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