

FRAME 450 Series: “Barrel” Style Machine

Single Wrap

Small diameter, lighter weight, very powerful.
Can be 1:1 or 2:1 roped.



SPECIFICATIONS

- 2,000 to 5,000 pound capacity, 2:1 roped
- 3,500 pound 1:1 roped
- 2,500 pound capacity 1:1 roped, with 20" sheave for 1/2 ropes
- V-groove, 17" or 20" sheave diameter
- Up to 8 - 10 mm ropes or 5 - 1/2" ropes
- Sheave Shaft Load 20,000 pounds
- Manual brake release available

FEATURES

- Precise acceleration, deceleration, and contract speed control
- Low noise, highly efficient
- Compact and Green - no oil lubricants
- Low speed direct drive (no gears)
- Cooler operation
- Independent brake system holds 125% rated capacity
- Weighs just under 2200 pounds
- UL/CSA CUS Certified

APPLICATIONS

- New Construction, machine room less (MRL), or modernization geared machine replacement
- 1:1 or 2:1 roped

Frame 450 Series 1:1 Roping

FPM	200			250			350			400			500		
CAPACITY	RPM	HP	AMPS	RPM	HP	AMPS	RPM	HP	AMPS	RPM	HP	AMPS	RPM	HP	AMPS
1500	44	5.1	16.0	55.0	6.3	16.0	77.0	8.8	16.0	88.0	10.1	16.0	N/A	N/A	N/A
2000	44	6.7	23.0	55.0	8.4	23.0	77.0	11.8	23.0	88.0	13.5	23.0	110.0	16.8	35.0
2500	44	8.4	29.0	55.0	10.5	29.0	77.0	14.7	29.0	88.0	16.8	29.0	110.0	21.0	43.0
3000	44	10.1	19.0	55.0	12.6	29.0	77.0	17.7	29.0	88.0	20.2	41.0	110.0	25.3	41.0
3500	44	11.8	22.0	55.0	14.7	34.0	77.0	20.6	34.0	88.0	23.6	47.0	110.0	29.5	47.0
Model 451	Model 453	Model 455	50% counterweight. Consult Imperial Electric for 40% and 45% counterweighting data.												

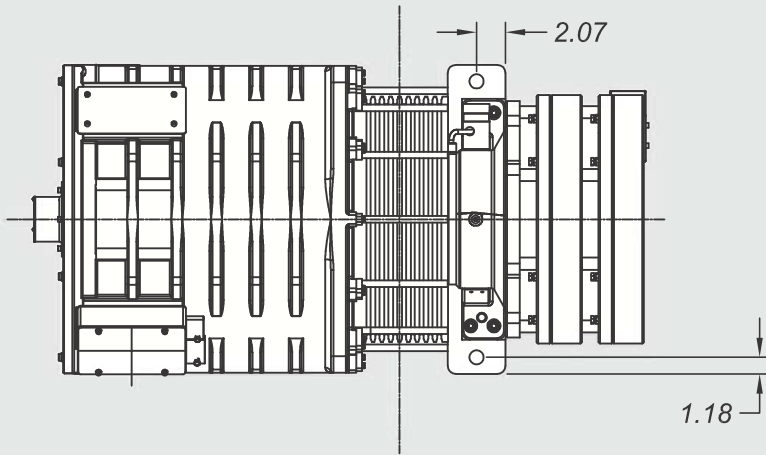
Frame 450 Series 2:1 Roping

FPM	200			250			350			400			500		
CAPACITY	RPM	HP	AMPS	RPM	HP	AMPS	RPM	HP	AMPS	RPM	HP	AMPS	RPM	HP	AMPS
1500	88	5.3	9	110	6.7	14	154	9.4	14	176	10.7	19	221	13.4	19
2500	88	8.9	14	110	11.1	23	154	15.6	23	176	17.8	32	221	22.3	32
3500	88	12.5	20	110	15.6	32	154	21.8	32	176	25	45	221	31.2	45
4500	88	16	28	110	20.1	41	154	28.1	41	176	32.1	57	221	40.1	57
5000	88	17.8	31	110	22.3	46	154	31.2	46	176	35.7	64	221	44.6	64
Model 451	Model 453		50% counterweight. Consult Imperial Electric for 40% and 45% counterweighting data.												

Gearless AC Machines

Frame 400 series dimensional diagrams

Model 450 - Barrel Style



Model 455

NOTE:

FRAME: 455

DRIVE SHEAVE: Ø17.32"

WITH (8)-10mm GROOVES

MOTOR WEIGHT: 2100 LBS

