

FRAME 700 Series: 705-OB

Double Wrap

Imperial Electric Frame 700 machines feature an extended chassis and a heavy duty outboard bearing support to easily accommodate the special load characteristics required for double-wrap roping configurations. With a maximum sheave shaft load of up to 45,000 pounds, power ratings to 115HP, and dual-coil, independent brakes applying 6000 N-m torque per side, these machines offer up to 5,000 pound capacity roped 1:1 or 9,000 pound capacity roped 2:1 with maximum speeds of 1400 and 700 fpm respectively.



SPECIFICATIONS

- Capacity: 5,000 pounds, 1:1 or 9,000 pounds 2:1
- Speeds ranging from 100 to 1400 FPM
- U-groove, 25-inch diameter sheave
- 12, 5/8" grooves for up to 6, 5/8" ropes, double wrap

FEATURES

- Precise acceleration, deceleration, and contract speed control
- Low noise, highly efficient
- Compact and Green - no oil lubricants
- Direct drive (no gears)
- Totally enclosed, self-cooling, no fan required
- Independent brake system holds 125% rated capacity
- Complete hardware package eliminates on-site engineering calculation and fabrication of heavy base and beam structures
- Sub-base with secondary sheave options
- Machine weight: 5,780 pounds
- Heidenhain ECN1313, 2048 ppr encoder provided
- UL/CSA CUS Certified

APPLICATIONS

- Modernization and new construction
- 1:1 and 2:1 roped installations, double-wrap
- High rise or heavy load
- Disassembly options available
- Overhead basement and sidepull applications

FRAME 705-OB Series 1:1 duty table

FPM	700			800			900			1000			1200			1400		
CAPACITY	HP	RPM	AMPS	HP	RPM	AMPS	HP	RPM	AMPS	HP	RPM	AMPS	HP	RPM	AMPS	HP	RPM	AMPS
3500	41.2	107.0	58.0	47.1	122.2	82.0	53.0	137.5	82.0	58.9	152.8	82.0	70.7	183.3	117.0	82.5	213.9	117.0
4000	47.1	107.0	66.0	53.9	122.2	94.0	60.6	137.5	94.0	67.3	152.8	94.0	80.8	183.3	133.0	94.3	213.9	133.0
4500	53.0	107.0	75.0	60.6	122.2	106.0	68.2	137.5	106.0	75.8	152.8	106.0	90.9	183.3	150.0	106.1	213.9	150.0
5000	58.9	107.0	83.0	67.3	122.2	118.0	75.8	137.5	118.0	84.2	152.8	118.0	101.0	183.3	167.0	117.8	213.9	167.0
Model 705-OB			50% counterweight. Consult Imperial Electric for 40% and 45% counterweighting data.															

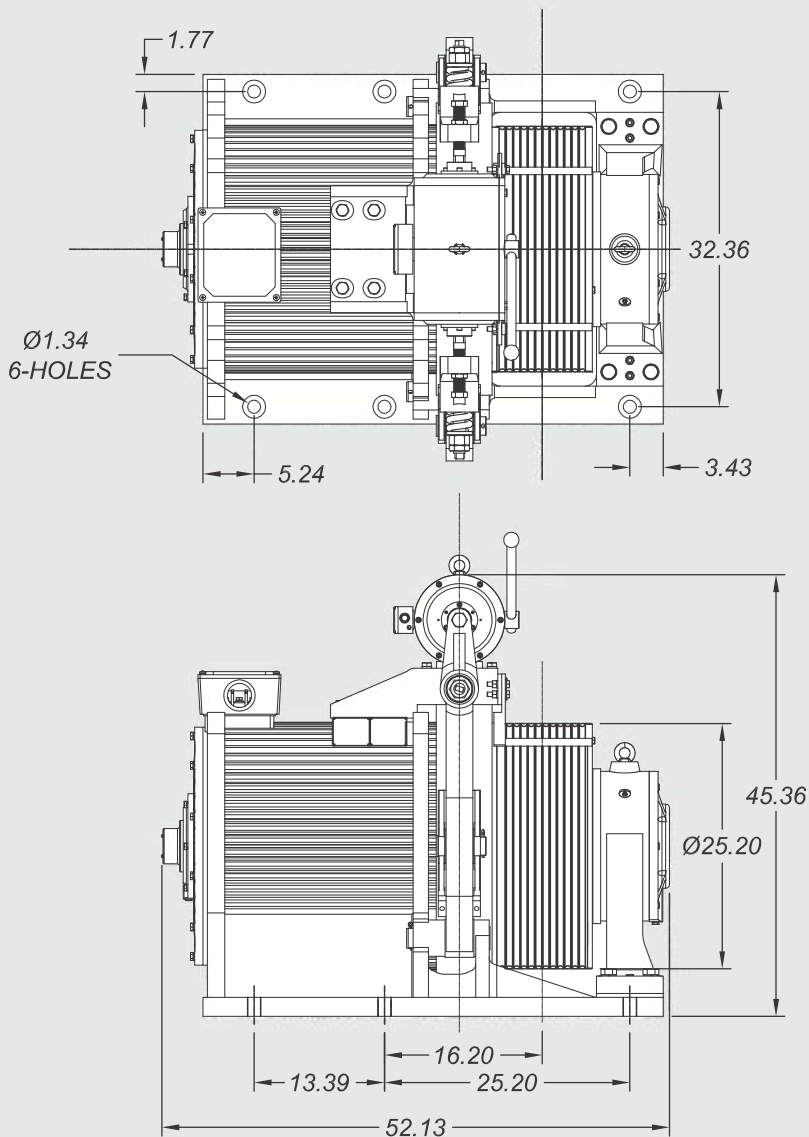
FRAME 705-OB Series 2:1 duty table

FPM	400			500			600			700		
CAPACITY	HP	RPM	AMPS	HP	RPM	AMPS	HP	RPM	AMPS	HP	RPM	AMPS
5000	35.7	122.2	62.0	44.6	152.8	62.0	53.5	183.3	88.0	62.4	213.9	88.0
5500	39.2	122.2	69.0	49.0	152.8	69.0	58.8	183.3	97.0	68.6	213.9	97.0
6000	42.8	122.2	75.0	53.5	152.8	75.0	64.2	183.3	106.0	74.9	213.9	106.0
6500	46.3	122.2	81.0	57.9	152.8	81.0	69.5	183.3	115.0	81.1	213.9	115.0
7000	49.9	122.2	87.0	62.4	152.8	87.0	74.9	183.3	124.0	87.3	213.9	124.0
7500	53.5	122.2	93.0	66.8	152.8	93.0	80.2	183.3	132.0	93.6	213.9	132.0
8000	57.0	122.2	100.0	71.3	152.8	100.0	85.6	183.3	141.0	99.8	213.9	141.0
Model 705-OB			50% counterweight. Consult Imperial Electric for 40% and 45% counterweighting data.									

Gearless AC Machines

Frame 700 series dimensional diagrams

Model 705-OB



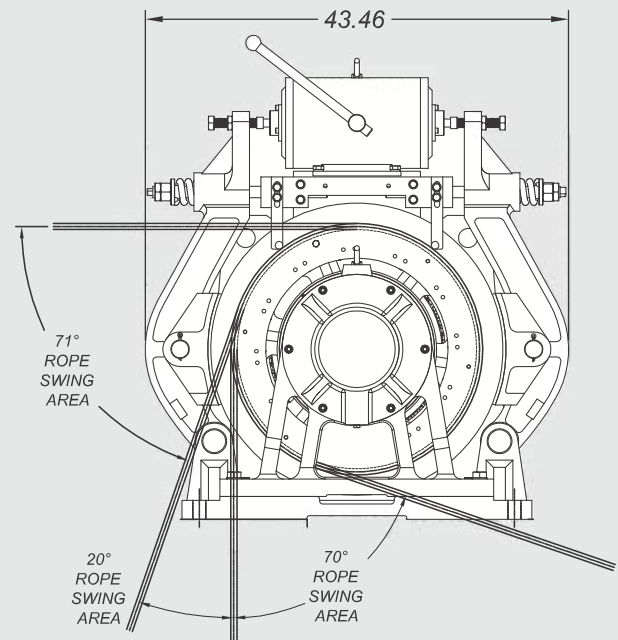
705- OB MACHINE

NOTE:

FRAME: 705 OB

DRIVE SHEAVE: 25.20" WITH
(14)-1/2" or (12)-5/8" U GROOVES

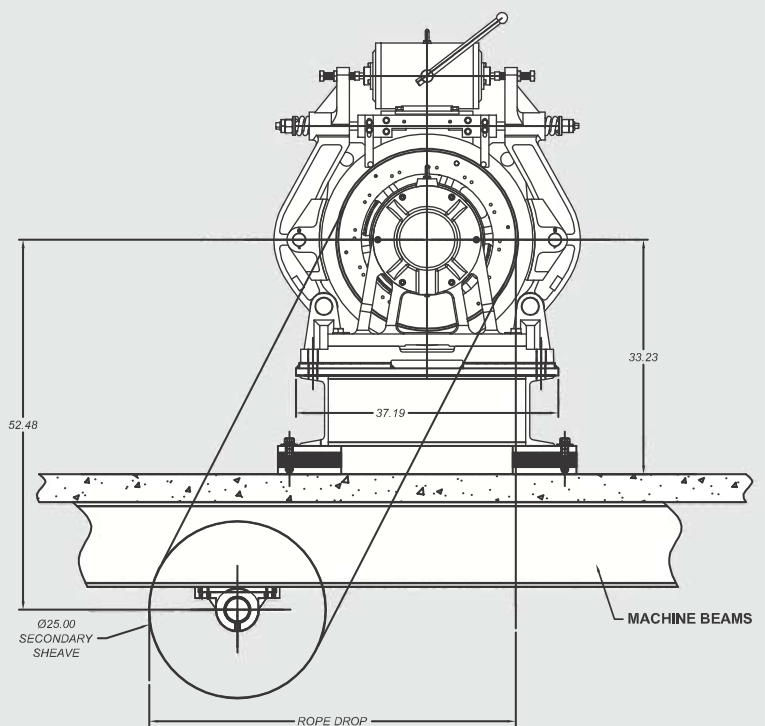
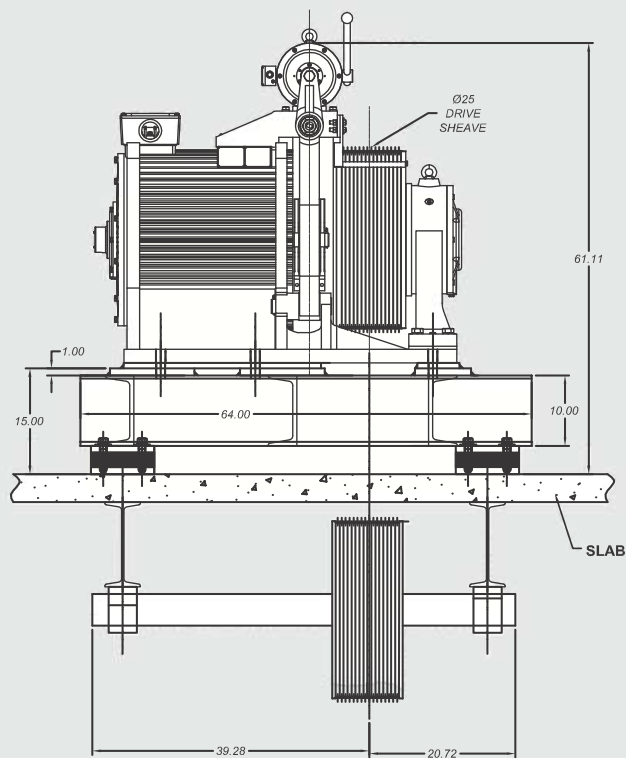
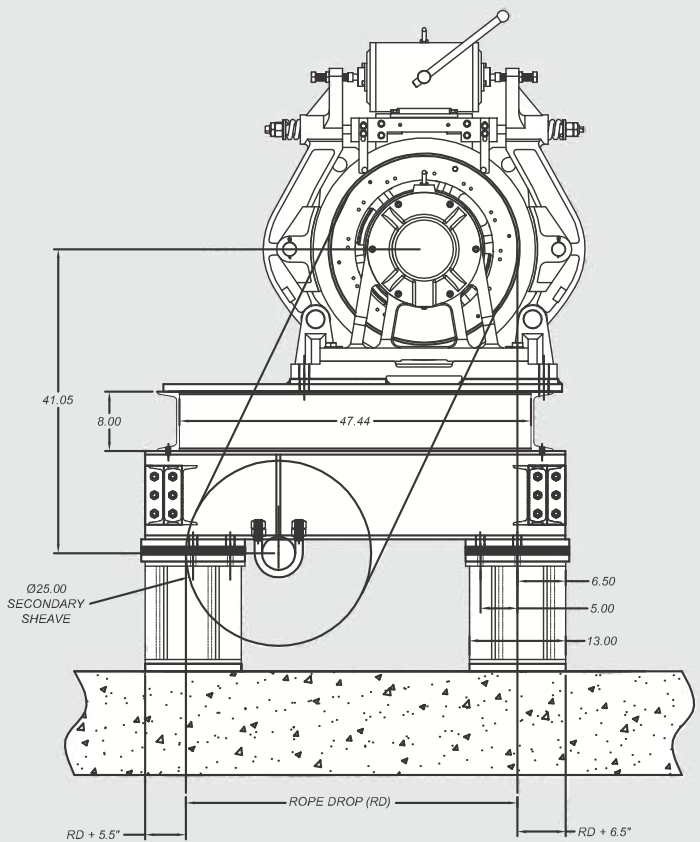
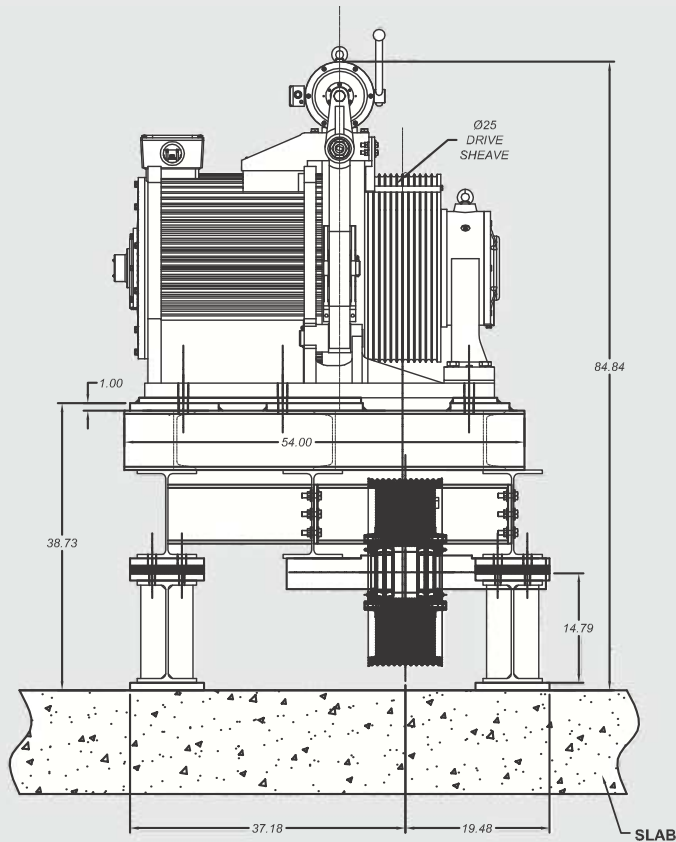
MOTOR WEIGHT: 5780 LBS



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Frame 700 series dimensional diagrams

Model 705-OB with base



Note: Contact Imperial Electric for actual dimensions.