

Model 16HF using Hydrostatic Vibrator Drive, Reference Information

Available 16HF Reference Information

- 18.5" x 26" x .31" (470 mm x 660 mm x 8 mm)
- 19" x 26" x .31" (483 mm x 660 mm x 8 mm)
- 21.62" x 26" x .31" (550 mm x 660 mm x 8 mm)
- 21.62" x 29" x .31" (550 mm x 737 mm x 8 mm)
- 26" x 26" x .31" (660 mm x 660 mm x 8 mm)

Location Specifications: (see P.L.O if available otherwise locations must be provided and approved by Customer)

1. Main Pumping Unit
2. Hydrostatic Pumping Unit
3. Lube Pumping Unit
4. Main Control Panel
5. Push-Button Station
6. Air Control Panel

Model 16HF Block Machine Performance Parameters:

Estimated Production Output @ 100% efficiency

Note: Production figures listed below are average and will vary for the individual plant as determined by quality and consistency of aggregate and materials, plant and equipment conditions and experience and skill of plant personnel.

Table 1: Producing Standard 8" x 8" x 16" (200mm x 200mm x 400mm) Hollow Core Block.

| Pallet Size (Front to Back) | Cycles/Min. (Production) | Sec./Cycle (Production) | Sec./Cycle (Kiln Sizing) |
|--------------------------------|-----------------------------|----------------------------|-----------------------------|
| 18-1/2" (470 mm) | 7.5 | 8.0 | 7.0 |
| 21- 5/8" (550 mm) | 7.0 | 8.6 | 7.6 |
| 26" (660 mm) | 6.4 | 9.4 | 8.4 |

Table 2: Various Product Types

| Pallet Size (Front to Back) | Std. Cored Block Sec./Cycle | Solid Block Sec./Cycle | Paver on Flat Sec./Cycle | Brick on End Sec./Cycle |
|--------------------------------|--------------------------------|---------------------------|-----------------------------|----------------------------|
| 18-1/2" (470 mm) | 8.0 | 9.0 | 10.0 | 10.0 |
| 21- 5/8" (550 mm) | 8.6 | 9.6 | 10.6 | 10.6 |
| 26" (660 mm) | 9.4 | 10.4 | 11.4 | 11.4 |

Table 3: Cycles / Shift (8 hours @ 100% Efficiency), with Various Product Types

| Pallet Size (Front to Back) | Std. Cored Block Cycles/Shift | Solid Block Cycles/Shift | Paver on Flat Cycles/Shift | Brick on End Cycles/Shift |
|--------------------------------|----------------------------------|-----------------------------|-------------------------------|------------------------------|
| 18-1/2" (470 mm) | 3,600 | 3,200 | 2,880 | 2,880 |
| 21- 5/8" (550 mm) | 3,360 | 3,000 | 2,716 | 2,716 |
| 26" (660 mm) | 3,072 | 2,784 | 2,525 | 2,525 |

Note: Products/Shift = (Cycles/Shift) * (Product/Cycle)

i.e. (3,600 Cycles/Shift) * (3 Product/Cycle) = **10,800 Product/Shift**

Table 4: Special Equipment Products

| Pallet Size (Front to Back) | Standard Product Sec. / Cycle (Production) | w/Core Puller Sec./Cycle | w/Font Feed Drawer Sec./Cycle | w/ FFD and Dbl. Compression Sec./Cycle |
|--------------------------------|--|-----------------------------|-------------------------------------|--|
| 18-1/2" (470 mm) | 8.0 | 9.5 | 9.5 | 12.5 |
| 21-5/8" (550 mm) | 8.6 | 10.4 | 10.4 | 13.6 |
| 26" (660 mm) | 9.4 | 11.6 | 11.6 | 15.0 |

Oil Type and Quantity Model 16HF:

1. Main Pumping Unit
 - 950 PSI (64 BAR) Operating Pressure
 - Chevron Type AW68 or Equivalent Oil
 - 200 Gallons (760 liters)

2. Hydrostatic Vibrator Drive Pumping Unit
 - 3500 PSI (237 BAR) Acceleration Pressure
 - 2500 PSI (169 BAR) Deceleration Pressure
 - Chevron Type AW46 or Equivalent Oil
 - 25 Gallons (95 liters)

3. Lube Pumping Unit
 - 30 PSI (8.8 BAR) Operating Pressure
 - Chevron type AW46 or Equivalent Oil
 - 10 Gallons (38 liters)

4. Hose Routing
 - Specify: in trench, on floor, overhead
 - Length (up, over, down) etc.

Air Requirements 16HF:

- 8 SCFM Air at 125 PSI (226 Liter per minute at 8.6 Bar) Required

Power Requirements 16HF:

- Main Pumping Unit:
 - 30 HP (22 kW) Hydraulic Pump Motor
 - 1/3 HP (0.24 kW) Oil Cooling Fan Motor
 - Tank Heater 1.0 kW (Optional)
- Vibrator Lube Pump Unit:
 - 1 ½ HP (1.2 kW) Lube Pump Motor
- Hydrostatic Pumping Unit:
 - 15 HP (11.2 kW) Hydrostatic Pump Motor
 - ¼ HP (0.18 kW) Oil Cooling Fan Motor
 - Tank Heater 1.5 kW
- Material Meter Belt
 - 2 HP (1.49 kW) Material Meter Belt, Optional

Weight of Equipment Model 16 HF:

- Note: Refer to Drawing D-300-0-446 for Mounting Pad Specifications
- 18,000 lbs. (8,165 KG) Machine dead load
- 19,500 lbs. (8,845 KG) Machine live load
- 600 lbs. (272 KG) Main Electrical Control Panel
- 1,600 lbs. (726 KG) Main Pumping Unit (no oil)
- 1,200 lbs. (545 KG) Hydrostatic Drive Pumping Unit (no oil)
- 150 lbs. (68 KG) Lube Pumping Unit (no oil)