

**Model CPM60 Reference Information**

**Available Pallet Sizes Model CPM60:**

- 18.5” x 55.12” x .50” (470 mm x 1,070 mm x 13 mm)
- 21.62” x 55.12” x .50” (550 mm x 1,070 mm x 13mm)
- 27-9/16” x 55.12 x .50 ‘ (700 mm x 1,070 mm x 13 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 (Opposite of Return)
6. Air Control Panel (Opposite of Return)

**Model CPM60 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)	8.0	7.5	6.5
21 – 5/8” (550 mm)	7.5	8.0	7.0
27 – 9/16” (700 mm)	7.0	8.6	7.6

**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)	7.5	8.5	9.5	9.5
21 - 5/8" (550 mm)	8.0	9.0	10.0	10.0
27 - 9/16" (700 mm)	8.6	9.6	10.6	10.6

**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)	3,840	3,390	3,030	3,030
21 - 5/8" (550 mm)	3,600	3,200	2,880	2,880
27 - 9/16" (700 mm)	3,360	3,000	2,720	2,720

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

i.e. (3,840 Cycles / Shift) \* (6 Products / Cycle) = **23,040 Product / Shift**

**Table 4: Special Equipment Products**

Pallet Size (Front to Back)	Standard Product Sec. / Cycle	w/ Core Puller Sec. / Cycle	w/ Front Feed Drawer Sec. / Cycle	w/ FFD and Dbl. Compression Sec. / Cycle
18 - 1/2" (470 mm)	7.5	9.0	9.0	12.0
21 - 5/8" (550 mm)	8.0	9.8	9.8	13.0
27 - 9/16" (700 mm)	8.6	10.8	10.8	14.2

**Oil type and Quantity**

1. Main Pumping Unit
  - 2,000 PSI (136 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.
  - \_\_\_\_\_
  - \_\_\_\_\_
  - \_\_\_\_\_
  - \_\_\_\_\_

**Hydraulic Piping Requirements:**

- **Working Pressure: 2,000 PSI (136 BAR)**
  - Hose: use SAE 100 R13, Parker 78C, 1-1/2” (38mm) I.D.  
20,000 PSI Burst, 5,000 PSI Working Pressure
  - Pipe: use ASTM A53 Grade B Pickled and Oiled  
1-1/2” (38 mm) Dia. Schedule 80
  
- **Return:**
  - **Hose: use SAE 100R2, Parker 381, 1-1/2” (38 mm) I.D.**  
2,500 PSI working pressure
  
- **Pipe: use ASTM A53 Grade B Pickled and Oiled**  
2” (50 mm) Dia. Schedule 40

**Air Requirements:**

- 20 SCFM air at 125 PSI (566 Liter per minute at 8.6 Bar) Required

**Power Requirements:**

- Main Pumping Unit:
  - 40 HP (30 kW) Hydraulic Pump Motor
  - 40 HP (30 kW) Hydraulic Pump Motor
  - 3 HP (2.24 kW) Oil Cooling Fan Motor
  - 3 HP (2.24 kW) Oil Circulating Motor
  - Tank Heater 1.0 kW
- Vibrator Lube Pump Unit:
  - 1-1/2 HP (1.2 kW) Lube Pump Motor
- Hydrostatic Pumping Unit:
  - 50 HP (37.3 kW) Hydrostatic Pump Motor
  - 1/3 HP (0.25 kW) Oil Cooling Fan Motor
  - Tank Heater 1.5 kW
- Material Meter Belt:
  - 5 HP (3.37 kW) Material Meter Belt, Optional

**Weight of Equipment CPM60**

Note: Refer to Drawing D-300-0-467 for Dimension Specifications

- For Mounting Pad Specifications:
  - Refer to Drawing D-300-0-465 for 18-1/2” Pallets
  - Refer to Drawing D-300-0-466 for 21-5/8” Pallets
  - Refer to Drawing D-300-0-454 for 27-9/16” Pallets

Machine Section	18-1/2” Pallet (470 mm)	21-5/8”Pallet (550 mm)	27-9/16” Pallet (700 mm)
Center Section No Load	33,500 lbs. 15,227 kgs.	33,500 lbs. 15,227 kgs.	33,500 lbs. 15,227 kgs.
Center Section Live Load	36,800 lbs. 16,727 kgs.	39,744 lbs. 18,065 kgs.	43,424 lbs. 19,738 kgs.
Rear Section No Load	8,600 lbs. 3,909 kgs.	9,288 lbs. 4,222 kgs.	10,148 lbs. 4,613 kgs.
Rear Section Live Load	10,000 lbs. 4,545 kgs.	10,800 lbs. 4,909 kgs.	11,800 lbs. 5,363 lbs.
FFD Section No Load	7,600 lbs. 3,454 kgs.	8,208 lbs. 3,731 kgs.	8,968 lbs. 4,076 kgs.
FFD Section Live Load	8,600 lbs. 3,909 kgs.	9,288 lbs. 4,222 kds.	10,148 lbs. 4,613 kgs.
Core Puller No Load	4,000 lbs. 1,818 kgs.	4,320 lbs. 1,964 kgs.	4,720 lbs. 2,145 kgs.
Core Puller Live Load	4,000 lbs. 1,818 kgs.	4,320 lbs. 1,964 kgs.	4,720 lbs. 2,145 kgs.

- 2,980 lbs. (1,354 kgs.) Compression Beam (Top Beam)
- 4,120 lbs. (1,873 kgs.) Stripper Beam (Bottom or Main Beam)
- 800 lbs. (364 kgs.) Main Electrical Control Panel
- 2,700 lbs. (1,227 kgs.) Main Pumping Unit (no oil)
- 1,500 lbs. (682 kgs.) Hydrostatic Drive Pumping Unit (no oil)
- 150 lbs. (68 kgs.) Lube Pumping Unit (no oil)