

# HYPAC

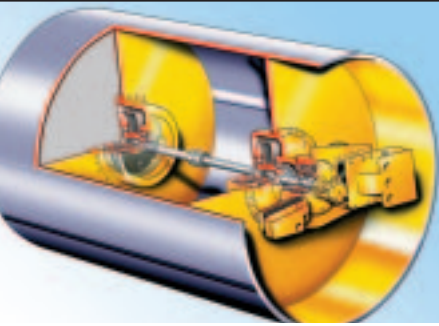
FAYAT GROUP

## *C850D Series*

### 12-14 Ton Single Drum Vibratory Compactors



- *Hydrostatic Travel and Vibration Drives*
- *Rear Axle with No-Spin Differential*
- *No Grease Daily Points*
- *Vibration Isolated Operator's Platform*



Standard dual amplitude and frequency enhances machine versatility



Individually changeable rubber buffers with no special tools or disassembly of the drum required



Ergonomic layout of instrument panel

## Applications...



HYPAC introduces the C850D single drum vibratory roller series providing excellent soil compaction performance and jobsite versatility. The smooth drum C850D and C855D models are designed essentially for compaction of granular and mixed soils. The padfoot C852D model is best suited for compaction of cohesive and semi-cohesive soils.

### APPLICATIONS

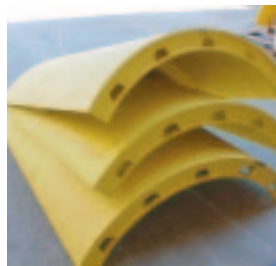
- ➡ Highway Construction and Maintenance
- ➡ Driveways
- ➡ Parking Lots
- ➡ Landfill



BTM shows the soil load bearing results in real time.



Padfoot Shell Kit for smooth drum equipped rollers.



Smooth Shell Kit for padfoot drum equipped rollers.

## Achieve Maximum Productivity...

- Increased productivity results in higher profits and improved machinery investment returns.
- The high-grade feature of ASC System\*, monitors slip potential between the vibratory drum and the rear tires to provide optimized gradeability and traction performance.
- High frame to drum weight ratio provides superior compaction performance.
- Standard dual amplitudes and frequencies provide consistent compaction performance on a wide range of soil types.
- Generous steering angle provides high maneuverability.
- Thick drum shells with chamfered edges provide long life, improved compaction results and superior surface quality.
- Wide clearance between frame and drum in conjunction with standard dual scrapers prevents material build-up.
- Increased operator platform space optimizes operator comfort and efficiency.
- Heavy-duty rear travel axle with no-spin differential, delivers unmatched gradeability and tractive effort.

# Performance & Productivity in the 84 Inch Compactor Class



Large steel engine hood provides easy access to all service and maintenance points



Maintenance-free, rugged, oscillating-articulation joint bolted on the outside of the front and rear frames

## Standard Equipment

- ▶▶▶▶ Hydrostatic travel and vibration drives
- ▶▶▶▶ Dual frequencies and amplitudes
- ▶▶▶▶ Hydrostatic articulated steering
- ▶▶▶▶ No spin differential with Spring applied hyd. released (SAHR) brakes
- ▶▶▶▶ Anti-Slip Control (ASC)\*
- ▶▶▶▶ Bolt on oscillating, articulated joint
- ▶▶▶▶ Articulation lock
- ▶▶▶▶ Adjustable operators seat
- ▶▶▶▶ Single lever control for travel and vibration
- ▶▶▶▶ Drum scrapers
- ▶▶▶▶ Emergency STOP
- ▶▶▶▶ Back up alarm & hour meter
- ▶▶▶▶ ROPS/FOPS sun canopy with seat belt
- ▶▶▶▶ Audible/visual warning indicators:
  - Engine oil pressure
  - Engine temperature
  - Hydraulic oil filter restriction
  - Air filter restriction
  - Brake control
  - Charge control

## Operation & Maintenance

- Vibration Isolated Operators platform
- Extremely low noise levels at operators ears even with vibration
- Multi-position, adjustable seat
- Reduced Stop to stop steering input
- Operator controls are ergonomically placed
- Easy single lever control for both travel direction, speed and vibration
- Superb compaction performance allows achievable density with thicker lifts or less passes yielding better ROI
- Low emission, Tier III Diesel engine and high output drum drive provide improved traction performance.
- Recessed frame bolts reduce bolt head shearing and repair costs
- Engine Cooling Air Flow reduces radiator maintenance and dust creation from the jobsite
- Corrosion Free plastic Fuel Tank
- Hydraulic filter system extends hydraulic oil and filter change intervals to 2000 working hours or 2 years

### Innovative Options:

Compaction Measuring and/or Control Systems display show real time soil load bearing results avoiding over-compaction and reducing the number of rolling passes.

### Less Service & Maintenance:

The purchase price is important, but so are the operating costs. Check these features:

- Maintenance Free Bolt On articulation joint, steering cylinder pins, and travel bearings eliminates daily grease points
- Quick access to all service and maintenance points in the engine compartment.
- Central drain points for engine and hydraulic oils, and for engine coolant
- Spring-Applied Hydraulically-Released (SAHR) brakes are maintenance free

- Evib Meter (BEM) – Analog gauge display of vib values.

- BTM Prof – Measuring system controls and documents the compaction process. Operator can view results on LCD Display and Document results via onboard printer

- BCM05 Compaction management system used in conjunction with the BTM Prof, controls and documents the compaction process as well as allowing intelligent compaction data management.

Padfoot and Smooth Shell Kits allow the roller to be quickly adapted to changing applications

## Optional Equipment

- ▶▶ Leveling blade (C852D)
- ▶▶ Working lights (front & rear)
- ▶▶ EROPS cab with heater
- ▶▶ Air conditioning
- ▶▶ Padfoot drum segment kit (C850D & C855D)
- ▶▶ Smooth drum segment kit (C852D)
- ▶▶ Swivel comfort seat
- ▶▶ Evib meter (BEM)
- ▶▶ Terrameter (BTM Prof)
- ▶▶ BCM05 compaction management
- ▶▶ Front frame ballast (+1540lbs)
- ▶▶ Gauges: Speedometer, voltmeter, frequency, tachometer
- ▶▶ CD Radio (with cab option)
- ▶▶ Rotary beacon (permanent or portable)

\* ASC not available for C850D

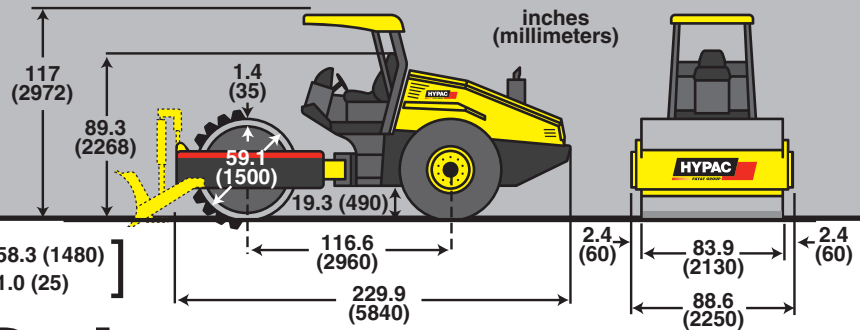
\*\* Compaction output influenced by soil/material type and moisture content.

\*\*\* Optional leveling blade is for surface profiling/contouring and backdragging of loose fill material only. This design is not intended to function as a device for excavation purposes.

MODEL	Compaction Output (cu. yd/h) at recommended soil layer/lift thickness. **			
	Rock Fill	Gravel, Sand	Mixed Soils	Silt, Clay
C850D	614.7 - 1229.5	392.4 - 784.8	313.9 - 627.8	157.0 - 313.9
C855D	693.2 - 1386.4	470.9 - 941.7	353.1 - 706.3	274.7 - 549.3
C852D	693.2 - 1386.4	470.9 - 941.7	353.1 - 706.3	274.7 - 549.3

MODEL	Compaction Layer Thickness (in). **			
	Rock Fill	Gravel, Sand	Mixed Soils	Silt, Clay
C850D	31.5	19.7	15.7	7.9
C855D	35.4	23.6	17.7	9.8
C852D	35.4	23.6	17.7	11.8

## C850D Series



[ C852D Drum Diameter: 58.3 (1480)  
C852D Drum Thickness: 1.0 (25) ]

# Technical Data...

	HYPAC C850D – Smooth Drum		HYPAC C855D – Smooth Drum		HYPAC C852D – Padfoot Drum	
<b>Weights</b>						
Operating Weight w/ ROPS/FOPS .....	lbs (kg)	26590 (12060)	26540 (12040)	26540 (12040)	27975 (12690)	27975 (12690)
Operating Weight w/ Blade .....	lbs (kg)	—	—	—	30385 (13785)	30385 (13785)
Axle load, drum .....	lbs (kg)	14950 (6780)	15315 (6945)	15315 (6945)	16555 (7510)	16555 (7510)
Axle load, drum with Blade .....	lbs (kg)	—	—	—	19996 (9070)	19996 (9070)
Axle load, wheels .....	lbs (kg)	11640 (5280)	11225 (5095)	11225 (5095)	11420 (5180)	11420 (5180)
Static linear load (drum) .....	pli (kg/cm)	178.1 (31.8)	182.9 (32.6)	182.9 (32.6)	—	—
<b>Dimensions</b>						
Working width .....	in (mm)	83.9 (2130)	83.9 (2130)	83.9 (2130)	83.9 (2130)	83.9 (2130)
Track Radius, inner .....	in (mm)	142.3 (3615)	142.3 (3615)	142.3 (3615)	142.3 (3615)	142.3 (3615)
<b>Driving Characteristics (depending on site conditions)</b>						
Speed (1) .....	mph (kmph)	0-3.1 (0-5)	0-2.2 (0-3.5)	0-3.5 (0-5.6)	0-2.2 (0-3.5)	0-3.5 (0-5.6)
Speed (2) .....	mph (kmph)	0-3.7 (0-6)	0-3.9 (0-6.3)	0-6.3 (10.1)	0-3.9 (0-6.3)	0-6.3 (0-10.1)
Speed (3) .....	mph (kmph)	0-4.3 (0-7)	0-7.5 (0-12)	0-12 (19.3)	0-7.5 (0-12)	0-12 (0-19.3)
Speed (4) .....	mph (kmph)	0-6.2 (0-10)	—	—	—	—
Max. gradeability without/with vibration .....	%	43	55	55	55	55
<b>Drive</b>						
Engine manufacturer .....		Deutz	Cummins	Cummins	Cummins	Cummins
Type .....		TCD2013L042V	QSB4.5	QSB4.5	QSB4.5	QSB4.5
Cooling .....		Water	Water	Water	Water	Water
Number of cylinders .....		4	4	4	4	4
Performance SAE J 1995 .....	hp (kW)	133 (99)	160 (119)	160 (119)	160 (119)	160 (119)
Speed .....	rpm	2200	2200	2200	2200	2200
Fuel .....		diesel	diesel	diesel	diesel	diesel
Electric Equipment .....	V	12	12	12	12	12
Drive System .....		hydrostatic	hydrostatic	hydrostatic	hydrostatic	hydrostatic
Drum Driven .....		standard	standard	standard	standard	standard
<b>Drums and Tires</b>						
Number of pad feet .....		—	—	—	150	150
Area of one pad foot .....	in <sup>2</sup> (cm <sup>2</sup> )	—	—	—	21.2 (136.5)	21.2 (136.5)
Height of pad feet .....	in (mm)	—	—	—	3.9 (100)	3.9 (100)
Tire size .....		23.1-26/12PR	23.1-26/12PR	23.1-26/12PR	23.1-26/12PR	23.1-26/12PR
Drum Driven .....		Diamond (R-3)	Diamond (R-3)	Diamond (R-3)	Tractor (R-1)	Tractor (R-1)
<b>Brakes</b>						
Service brake .....		hydrostatic	hydrostatic	hydrostatic	hydrostatic	hydrostatic
Parking brake .....		SAHR	SAHR	SAHR	SAHR	SAHR
<b>Steering</b>						
Steering system .....		oscil., artic.	oscil., artic.	oscil., artic.	oscil., artic.	oscil., artic.
Steering method .....		hydrostatic	hydrostatic	hydrostatic	hydrostatic	hydrostatic
Steering angle +/- .....	degrees	35	35	35	35	35
Oscillating angle +/- .....	degrees	12	12	12	12	12
<b>Vibratory system</b>						
Drive system .....		hydrostatic	hydrostatic	hydrostatic	hydrostatic	hydrostatic
Frequency .....	vpm(Hz)	1800/2160 (30/36)	1800/2160 (30/36)	1800/2160 (30/36)	1800/2160 (30/36)	1800/2160 (30/36)
Amplitude .....	in (mm)	0.71/0.036 (1.8/0.9)	0.71/0.036 (1.8/0.9)	0.71/0.036 (1.8/0.9)	0.065/0.032 (1.64/0.82)	0.065/0.032 (1.64/0.82)
Centrifugal force .....	lbs (kN)	61825/44550 (275/198)	61825/44550 (275/198)	61825/44550 (275/198)	61825/44550 (275/198)	61825/44550 (275/198)
<b>Capacities</b>						
Fuel .....	gal (l)	66 (250)	66 (250)	66 (250)	66 (250)	66 (250)