

# HYPAC

## *C766C, C778B*

### 10 Ton Double Drum Vibratory Compactors



- *High productivity*
- *Dual hydrostatic drive*
- *Up to 3800 VPM in low amplitude*
- *Radial, pneumatic vibratory-drum isolators*
- *Asphalt mat temperature sensing system*

# HYPAC

## C766C, C778B - Raising the Standard



Radial pneumatic isolators ensure vibratory energy is transmitted to the work, not the machine



Two levers control travel direction, speed, manual vibration on/off and MSPI input



The MSPI system delivers ultimate control over productivity

## Applications...



For many years HYPAC has established proven leadership in the compaction industry. With the C766C and C778B, HYPAC once again raises the standards to which the competition must conform. Industry class high drum vpm allows for higher rolling speeds. With independently variable front and rear drum vibration frequencies, the C766C and C778B compactors meet specified density and smoothness requirements on a wide variety of mix designs. Exclusive MSPI technology delivers total repeatability of system settings and rolling patterns.

- ➔ **Highway Construction and Maintenance**
- ➔ **Asphalt Repairs and Resurfacing**
- ➔ **Parking Lots**

## Achieve Maximum Productivity...

- Dual center-facing seats and low frame design, deliver unequalled operator visibility for optimum productivity.
- High vibration frequency makes short work of main-line paving projects.
- Industry class high vibration frequency permits maximum compacting speeds for unequalled productivity.
- Full hydrostatic drive, with a low-speed high torque motor on each drum, delivers smooth speed and directional changes.
- Multi-System Performance Indicator (MSPI) delivers ultimate control over productivity by allowing the operator to input maximum working speed and automatic vibration start/stop speed.
- MSPI calculates drum impact spacing allowing the operator to control densities, smoothness and rolling patterns.
- Directional/Speed Control Lever with integrated thump-tip manual vibration start/stop switch permits optimum control of vibration system.

# s to Put You in Control of Productivity



The Asphalt Mat Temperature Sensing System's on-the-go measuring of the material temperature is critical for Super Pave projects



The engine is placed low in the frame for ease of service and operator visibility

## Maintenance and Safety

- Cockpit design increases operator efficiency by positioning controls for natural operator movement and dual center-facing seats provide excellent visibility in both travel directions.
- Radial pneumatic vibratory-drum isolators give superior vibration isolation and long service life.
- Ported hitch design eliminates hose bundles and torsional stresses on the hoses.
- Cummins 4B 3.9 liter turbocharged and after-cooled diesel engine provides 130 hp with reserve power for the toughest jobs.
- Non-corrosive, dual pressurized water spray systems, one for each drum, include polyethylene tank, fill port strainer, 100-mesh pump inlet screen, PVC spray bars, quick-connect nozzles for superior reliability.
- Falling-Object/Roll-Over Protective Structure and seat belts are standard equipment on the C766C and C778B.
- Asphalt mat temperature sensing system allow for a real-time display of the asphalt surface temperature.
- A high-output/low-mass vibratory mechanism has oil bath bearings for long life and reduced maintenance.
- Oil filtered with a high-efficiency 5-micron filter to help extend life of hydraulic components.
- There are no "grease daily" fittings on the C766C or C778B.
- Pressure test ports, built into the hydraulic system, have standard capped fittings for quick, effortless service.

### Standard Equipment

- Cummins 4B 3.9 Diesel Engine
- Front and Rear Drum Scrapers
- 66" x 48" Diameter Machined Drums (C766C)
- 78" x 48" Diameter Machined Drums (C778B)
- Multi-System Performance Indicator (MSPI)
- Vandal Protection
- Horn
- Dual Amplitude
- Water Saver System
- Pressurized, Non-corrosive Water Spray System
- Hydrostatic Drive
- Electronic Controls
- Automatic Vibrator "On/Off"
- Speed Limiter
- Secondary/Park Brake Release
- FOPS/ROPS with seat belts
- Asphalt Mat Temperature Sensing System
- Working lights (front/rear)
- Turn Signals and 4 way flashers
- Back Up Alarm

### Optional Equipment

- Night Paving Lights
- Special paint

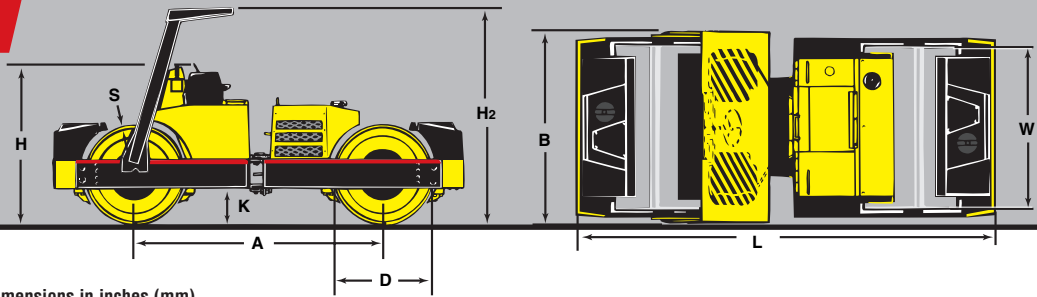
#### C766C - ASPHALTIC CONCRETE (material weight 140 lb/cu ft)

# passes	rolling speed (mph)	area coverage sq yd/hr	"productivity in tons/hr by lift thickness, 100% efficiency"			
			1.5 inches	2 inches	2.5 inches	3 inches
2	4.32	6970	549	732	915	1098
3	4.32	4646	366	488	610	732
4	4.32	3485	274	366	457	549
5	4.32	2788	220	293	366	439
6	4.32	2323	183	244	305	366

#### C778B - ASPHALTIC CONCRETE (material weight 140 lb/cu ft)

# passes	rolling speed (mph)	area coverage sq yd/hr	"productivity in tons/hr by lift thickness, 100% efficiency"			
			1.5 inches	2 inches	2.5 inches	3 inches
2	4.32	8237	649	865	1081	1297
3	4.32	5491	432	577	721	865
4	4.32	4118	324	432	541	649
5	4.32	3295	259	346	432	519
6	4.32	2746	216	288	360	432

Note: Repeat number of passes over the same area is required to achieve specified compaction efficiency/density. Successive passes over same area results in reduced area coverage and productivity. Rolling speed selected provides impact spacing of a minimum 10 impacts per foot at high vibration frequency setting. Actual compaction efficiency is determined by job conditions.

**HYPAC****C766C**  
**C778B**

Dimensions in inches (mm)

	A	B	D	H	H2	K	L	S	W
<b>C766C</b>	120 (3048)	81 (2057)	48 (1219)	78 (1981)	105 (2667)	15 (381)	200 (5080)	0.70 (17.78)	66 (1676)
<b>C778B</b>	120 (3048)	92.5 (2350)	48 (1219)	78 (1981)	105 (2667)	15 (381)	200 (5080)	0.70 (17.78)	78 (1981)

# Technical Data...

	<b>HYPAC C766C</b>		<b>HYPAC C778B</b>	
<b>Weights</b>				
Shipping Weight with ROPS.....	lbs (kg)	19150 (8694)	21750 (9875)	
Operating Weight with ROPS.....	lbs (kg)	20600 (9352)	23500 (10669)	
Axle load, (front).....	lbs (kg)	10757 (4879)	12154 (5513)	
Axle load, (rear).....	lbs (kg)	9843 (4465)	11345 (5146)	
Average static linear load.....	pli (kg/cm)	156 71	151 68	
<b>Dimensions</b>				
Working width.....	in (mm)	66 (1676)	78 (1981)	
Track Radius, inner.....	in (mm)	156 (3962)	150 (3810)	
Dimensions.....		see sketch	see sketch	
<b>Driving Characteristics (depending on site conditions)</b>				
Speed (1).....	mph (kmph)	0-5 (0-8.1)	0-5 (0-8.1)	
Speed (2).....	mph (kmph)	0-10 (0-16.1)	0-10 (0-16.1)	
Max. gradeability without/with vibration.....	%	40	40	
<b>Drive</b>				
Engine manufacturer.....		Cummins	Cummins	
Type.....		4B3.9 QSB-C130	4B3.9 QSB-C130	
Cooling.....		Water	Water	
Number of cylinders.....		4	4	
Performance SAE J 1349.....	hp (kW)	130 (97)	130 (97)	
Speed.....	rpm	2500	2500	
Fuel.....		diesel	diesel	
Electric Equipment.....	V	12	12	
Drive System.....		hydrostatic	hydrostatic	
Drum Driven.....		f+r	f+r	
<b>Brakes</b>				
Service brake.....		hydrostatic	hydrostatic	
Parking brake.....		SAHR	SAHR	
<b>Steering</b>				
Steering system.....		oscill., artic.	oscill., artic.	
Steering method.....		hydraulic	hydraulic	
Steering angle +/-.....	degrees	35	35	
Oscillating angle +/-.....	degrees	12	12	
<b>Vibratory system</b>				
Vibrating system.....		f, r, f+r	f, r, f+r	
Drive system.....		hydrostatic	hydrostatic	
Frequency max. (low/high).....	vpm (Hz)	3400/3800 (57/63)	3400/3800 (57/63)	
Amplitude (low/high).....	in (mm)	0.020/0.030 (0.508/0.762)	0.020/0.030 (0.508/0.762)	
Centrifugal force (low/high).....	lbs (kN)	27580/32950 (122.6/146.4)	30368/37099 (135.0/164.9)	
<b>Water Spray System</b>				
Type of system.....		Pressurized	Pressurized	
Back-up system.....		Pressurized	Pressurized	
<b>Capacities</b>				
Fuel.....	gal (l)	50 (189)	60 (227)	
Cooling system.....	qts (l)	19 (18)	19 (18)	
Engine.....	gal (l)	22 (83.3)	22 (83.3)	
Tank (ea).....	gal (l)	125 (473)	150 (568)	

**BOMAG**  
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