

# DYNAPAC CC 501C COMBINATION ROLLER



SVEDALA



# Combinatic Roller CC 501C

The CC 501C is a 23 tons\* articulated Combination roller with vibration and traction in the drum plus 4 smooth tires in the rear. This roller was designed for major projects requiring high degree of compaction and a sealed surface on highways and airports.

With heavy ballast in the rear frame, the CC 501C can exert wheel loads of 7,090 lbs. per tire. This creates an effective kneading action together with the vibrating drum for deep penetration.

This highly productive combination roller provides the required compaction results together with a smooth and tight surface providing an impermeable finish course.

The operator can choose between two amplitude settings. The drum is machined to assure a complete smoothness and roundness avoiding marking the asphalt mat. It develops a centrifugal force of 42,075 lbs.

The CC 501C is very easy to operate. It has a high curb clearance and flush sides with countersunk bolt heads.

The CC 501C has two large capacity plastic water tanks, 177 gallons in front and 84 gallons in rear, providing continuous operation and less stops for refillings.

As standard equipment, the CC 501C has an automatic vibration control for On-Off vibration engagement according to travel speed, a swivel instrument panel console with two operator seats and vibration quick-stop are also standard.

The 6 cylinder 210 hp diesel engine provides ample power for operations on steep slopes.

The CC 501C is equipped with standard working lights for night operations.

A number of optional equipment including an enclosed cab, soundproofing and climate control are available.

The CC 501C is the only heavy weight roller among the combination rollers.

## A heavy combination roller

The CC 501C combines the features of vibratory with those of static rubber tire rollers. The high amplitude setting is ideal for compaction of thick lifts on asphalt and base courses. The low amplitude setting is ideal for thin lifts and tender mixes.

Sand and gravel can be compacted in 12 inch lifts.

Base courses of crushed material can be compacted in 12 inch lifts.

## Economy and Flexibility

Thin lifts and tender mixes can best be compacted by leading with the rubber tires. Thick lifts and harsh mixes are best compacted by leading with the vibratory drum.

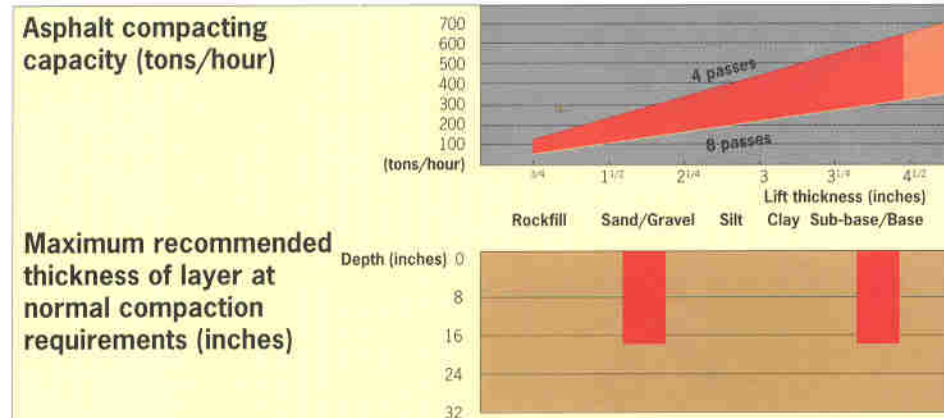
The savings by using a combination roller versus a vibratory plus a rubber tire roller can be as follows:

- Lower investment
- Lower transportation cost
- Lower operation costs

## Built-in Features

- Dual operator seats with a swivel console including the instrument panel

\* ) Short tons



CC 501C



## STANDARD

- Automatic Vibration Control (AVC)
- Automatic Water Control (AWC)
- Backup alarm
- Backup sprinkler system
- Brake release pump
- Cocoa mats
- Diesel fuel gauge
- Emergency stop, hand operated
- Frequency meter for vibration system
- Gauge, coolant temperature
- Gauge, hydraulic oil temperature
- Horn
- Hydraulic pressure checkpoints
- Instrument light
- Lifting points
- ROPS & seat belt
- Seat, adjustable
- Seat & panel, swivel
- Speedometer
- Sprinkler system, pressurized
- Tachometer
- Warning light, air cleaner
- Warning light, brakes
- Warning light, engine oil pressure
- Working lights, front/rear
- Vibration on/off in F/R control
- Vibration, quick stop
- Volt meter

## OPTIONALS

- Canopy
- Compaction meter
- F/R dual controls
- Hazard lights
- Noise reduction kit
- Rear view mirrors, external
- Rotating beacon
- Slow Moving Vehicle sign (SMV)
- Traffic lights, front/rear

## STANDARD FOR CAB

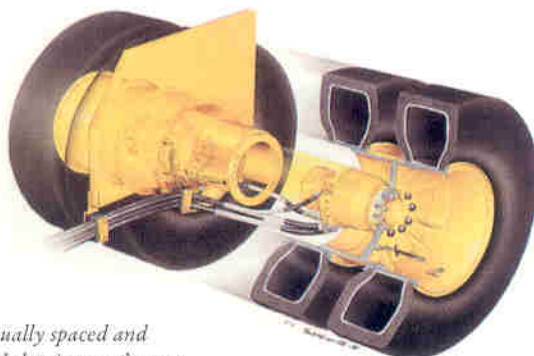
- Fan, fresh air (3-speed)
- Interior light
- Opening front window
- Rear view mirror, internal
- Rear view mirrors, external
- Safety glass, tinted
- Sunscreen, front
- Wiper and washer, front/rear window
- Working lights, front/rear

► The instrument panel and the steering wheel are mounted on a swivel console for easy operation. Both operator seats also have swivel adjustment and arm rests.



◄ The sprinkler has three step filtration to prevent nozzle clogging. A wind shield is also standard equipment.

◄ The large Enclosed Cab (optional) fits underneath the ROPS.



► The four rubber tires in the rear are equally spaced and all are driven by hydraulic motors to avoid shoving on the mat.

## OPTIONALS FOR CAB

- Heater, diesel powered
- Radio and cassette player
- Tachograph for distance, velocity etc

**Standard equipment/Optional equipment may vary for different markets.**

# Technical data CC 501C

## Weights (lb)

Max. operating weight \_\_\_\_\_ 48,500  
 Operating weight \_\_\_\_\_ 46,750  
 Module weight, drum/wheel \_\_\_\_\_ 18,410/28,340

## Traction

Speed range (mph) \_\_\_\_\_ 0 - 6.5  
 Vertical oscillation (°) \_\_\_\_\_ ±5  
 Steering angle (°) \_\_\_\_\_ ±30  
 Theor. gradeability (%) \_\_\_\_\_ 30

## Compaction

Static linear load (pli) \_\_\_\_\_ 219  
 Wheel load (lbs) \_\_\_\_\_ 7,085  
 Nominal amplitude, high/low (inches) \_\_\_\_\_ 0.029/0.015  
 Vibration frequency (vpm) \_\_\_\_\_ 2,700  
 Centrifugal force at high/low amplitude (lb) \_\_\_\_\_ 42,075/21,150  
 Water tanks, front/rear (gals) \_\_\_\_\_ 177/84

## Engine

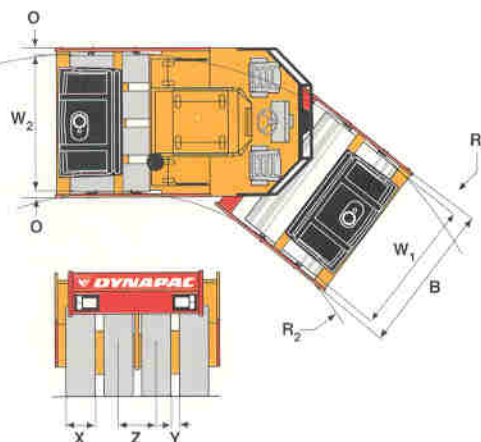
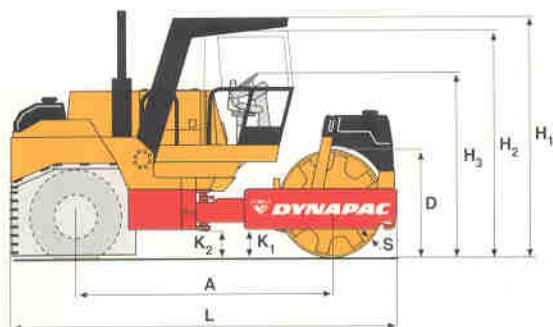
Model \_\_\_\_\_ Cummins 6 CT 8.3  
 Type \_\_\_\_\_ Water cooled turbo Diesel  
 Rated power, SAE, @ 2200 rpm (hp) \_\_\_\_\_ 210  
 Fuel tank capacity (gals) \_\_\_\_\_ 88

## Hydraulic system

Driving \_\_\_\_\_ Axial piston pump with variable displacement.  
 Axial piston motor with constant displacement.  
 Vibration \_\_\_\_\_ Gear pump/motor with constant displacement.  
 Steering \_\_\_\_\_ Gear pump with constant displacement.  
 Service brake \_\_\_\_\_ Hydrostatic in forward & reverse controls.  
 Parking/  
 Emergency brake \_\_\_\_\_ Failsafe multidisc on both drum and wheels motors.

## Dimensions (inches)

A	148
B	96
D	60
H <sub>1</sub>	131
H <sub>2</sub>	128
H <sub>3</sub>	103
K <sub>1</sub>	16
K <sub>2</sub>	16
L	222
O <sub>1</sub>	4.4
O <sub>2</sub>	4.4
R <sub>1</sub>	318
R <sub>2</sub>	234
S : Nominal	1.0
W <sub>1</sub>	84
W <sub>2</sub>	80
X	16
Y	5
Z	21



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