

DYNAPAC CA 121/141 VIBRATORY SOIL COMPACTORS



SVEDALA



Vibratory Soil Compactors CA 121/141

The CA 121/141 Series Vibratory soil compactors were designed for use in trenches, road shoulders, pipelines, underground utilities and general confined area compaction.

The CA 121/141 offers excellent performance on most materials with a minimum number of passes. They are well balanced rollers with hydrostatic power and effective vibration characteristics.

There are two main versions in the CA 121/141 Series: The smooth drum with drum drive (D) for granular sandy soils and the padfoot with drum drive (PD) for clays and silts. Both feature hydrostatic propulsion on the drum and wheels for effective operation on uneven terrain and slopes.

The small turning radius provides excellent maneuverability for tight turns. The operator has excellent visibility of the drum.

The CA 121/141 Series rollers are ideal for applications in sewers, pipelines and underground utility compaction, as well as "dental" type compaction on dams, power plants and airport construction.

Advanced engineering features are designed into these rollers for the safety, comfort and convenience of operators and service mechanics.

Excellent visibility of the drum and the work area from the operator station. The instruments and controls are clearly visible and grouped for ease of operation.

The hoses are protected from narrow trench walls and rough terrain. Engine and components are easily accessible for service with a rear hinged lift-up hood.

Lockable engine compartment and instrument panel to protect against vandalism. Shock mounts isolate the operator platform from vibration to reduce fatigue and increase operator efficiency.

All of the above mentioned plus simple and easy to read controls make the CA 121/141 Series the ideal operator's roller.

A roller for tight restricted spaces

Tight places as trenches are the typical application for the CA 121/141. It is also suitable for use in shoulders, on restricted areas and repair jobs.

Sand and gravel can be compacted in 12 inch lifts using the smooth drum (D) version.

Silt and clay can be compacted in 8 inch lifts using the padfoot (PD) version.

Base courses made up of granular materials can be compacted to a depth of 12 inches.

Available Strike-off blade for Pad drum versions.

Excellent serviceability and easy operation

- Large lift-up engine hood provides easy access to the engine and other components
- Engine accessibility from either side
- Service is performed at ground level
- Oil lubricated eccentric element for long life and low maintenance
- High quality components for long life

Good maneuverability

- Hydrostatic propulsion system
- Excellent gradeability
- Articulated center-pivot hydraulic steering
- Drum drive
- Tight turning radius
- Optimum weight distribution between the drum and tractor modules
- Vertical oscillation of steering hitch



Maximum recommended thickness of layer at normal compaction requirements (inches)

| Depth (inches) | Rockfill | Sand/Gravel | Silt | Clay | Sub-base/Base |
|----------------|----------|-------------|------|------|---------------|
| 4 | | | | | |
| 8 | | | | | |
| 12 | | | | | |

Capacity tables acc. to Svedala Dynapac Int. High Comp Centre.



STANDARD FEATURES

- Backup alarm
- Brake release
- Central hydraulic test panel
- Diesel fuel gauge
- Electrical controlled parking brake
- Emergency stop, hand operated
- Gauge, coolant temperature
- Gauge, oil pressure
- Horn
- Hour meter
- Hydraulic differential
- Hydraulic pressure checkpoints
- Lifting points
- Lockable hood
- Main battery switch
- Neutral start arrangement
- ROPS & seat belt
- Seat, adjustable
- Tachometer
- Volt meter

OPTIONALS EQUIPMENT

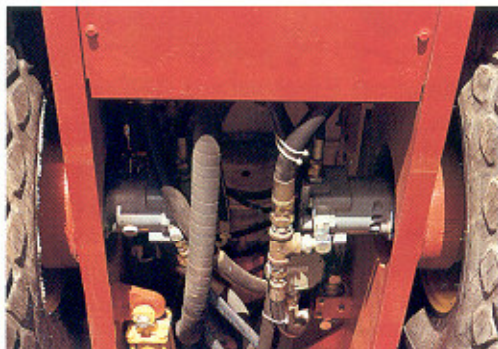
- Noise reduction kit
- Rotating beacon
- Slow Moving Vehicle sign (SMV)
- Special color
- Strike-Off Blade (PD only)
- Tool set
- Tractor wheels
- Working lights, front/rear

◀ Hydraulic test port central panel for easy and fast testing of hydraulic components.

▶ Large lift-up engine hood provides easy and total access to the engine and other components.

◀ A tight turning radius makes the CA 121/141 Series ideal for operation in confined areas.

▶ Individual hydraulic motors on the rear wheels coupled with a flow divider to insure superior traction over rough terrain.



Standard equipment/Optional equipment may vary for different markets.

Technical data CA 121/141

| Weight (lb) | CA 121D/141D | CA 121PD/141PD |
|-----------------------|--------------|----------------|
| Max. operating weight | 9,590/11,290 | 10,360/11,600 |
| Operating weight | 8,860/10,515 | 9,590/10,830 |
| Tractor module weight | 5,000/5,420 | 5,530/5,420 |
| Drum module weight | 3,860/5,095 | 4,060/5,410 |

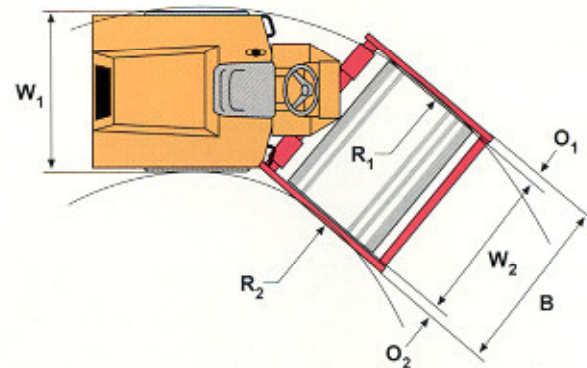
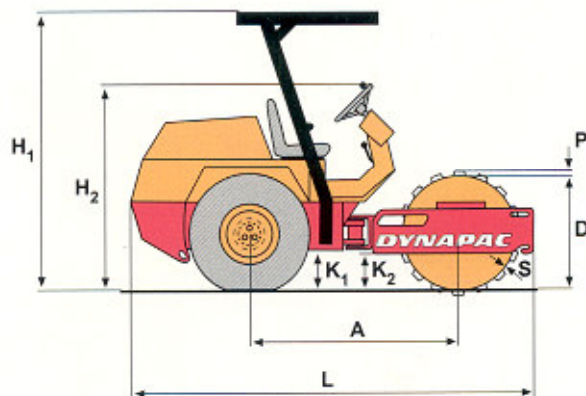
| Traction | CA 121D/141D | CA 121PD/141PD |
|--------------------------|-------------------|-------------------|
| Speed range (mph) | 0 - 3/0 - 4 | 0 - 3/0 - 4 |
| Number of pads | -/- | 72/90 |
| Pad area (sq. inches) | -/- | 8/8 |
| Vertical oscillation (°) | ±10/±10 | ±10/±10 |
| Steering angle (°) | ±33/±33 | ±33/±33 |
| Tire size | 13.6x16.1/16.5x16 | 13.6x16.1/16.4x16 |
| Theor. gradeability (%) | 113/64 | 104/60 |

| Compaction | CA 121D/141D | CA 121PD/141PD |
|----------------------------|---------------|----------------|
| Static linear load (pli) | 72/85 | -/- |
| Nominal amplitude (inch) | 0.055/0.043 | 0.047/0.039 |
| Vibrations frequency (vpm) | 1,800/1,950 | 1,800/1,950 |
| Centrifugal force (lbs) | 11,925/15,975 | 12,825/17,100 |

| Engine | CA 121D/121PD | CA 141D/141PD |
|------------------------------------|--------------------|--------------------|
| Model | John Deere 3029 DF | John Deere 3029 TF |
| Type | Watercooled diesel | Watercooled diesel |
| Rated power, SAE, @ 2,500 rpm (hp) | 58 | 79 |
| Fuel tank (gals) | 28 | 28 |

| Hydraulic system | |
|-----------------------------|---|
| Driving | Axial piston pump with variable displacement and servo. Radial piston motor with constant displacement (drum). Radial piston motors (2) with constant displacement (wheel). |
| Vibration | Gear pump/motor with constant displacement. |
| Steering | Gear pump with constant displacement. |
| Service brake | Hydrostatic in forward & reverse control. |
| Parking/ emergency brake | Failsafe multidisc brakes. |

| Dimensions (inches) | CA 121D/141D | CA 121PD/141PD |
|---------------------|--------------|----------------|
| A | 70/70 | 70/70 |
| B | 59/64 | 59/64 |
| D | 37/42 | 37/42 |
| H ₁ | 90/92 | 94/95 |
| H ₂ | 64/64 | 67/67 |
| K ₁ | 8/8 | 8/8 |
| K ₂ | 12/13 | 14/15 |
| L | 136/141 | 136/141 |
| O ₁ | 2/2 | 2/2 |
| O ₂ | 2/2 | 2/2 |
| P | -/- | 3/3 |
| R ₁ | 128/153 | 128/153 |
| R ₂ | 74/93 | 74/93 |
| S : Nominal | 1/1 | 1/1 |
| W ₁ | 56/56 | 56/56 |
| W ₂ | 54/60 | 54/60 |



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We reserve the right to change specifications without notice