

# CV16/CV18

Vibratory Compactors



## Skid Steer Loader Work Tools

	Drum width
CV16 Vibratory Compactor	1676 mm (66 in)
CV18 Vibratory Compactor	1854 mm (73 in)

# Cat® Vibratory Compactors

*Vibratory action and dynamic force provides excellent compaction in a compact size.*

Caterpillar® Vibratory Compactors are used for compacting soil, sand or gravel prior to pouring concrete or laying asphalt surfaces. They are also ideal for asphalt patch work. Their capabilities and lower investment and maintenance costs make them popular with pavers, general contractors and utility contractors in residential, commercial or industrial applications.

Cat Vibratory Compactors offer good maneuverability for small compacting jobs that don't require a dedicated self-propelled roller. They are designed to compact material using an oscillating drum that vibrates at a high rate of speed, producing excellent compaction forces. Vibratory compactors can be operated in both forward or reverse travel. Desired final surface finish, however, determines direction of travel.

## Performance and Versatility

Caterpillar Vibratory Compactors deliver maximum performance and provide smooth, efficient operation when coupled to Cat Skid Steer Loaders. Designed and built to strict Caterpillar standards, they carry with them the proven Caterpillar reputation for performance, versatility and reliability.

## Ease of Operation

Caterpillar Vibratory Compactors are designed with the operator in mind. The coupler interface is matched to the Cat Skid Steer Loader's mechanical quick coupler system for fast, secure work tool changes. Hydraulic hose routing, hose length and quick disconnects have been optimized to ensure proper routing and fit-up. Steps are conveniently located to facilitate operator entry and exit. Operation of Cat Vibratory Compactors is easy with Caterpillar joystick controls...virtually everything is at your fingertips.



## Features:

- **Two sizes available:** the 1676 mm (66 in) CV16, and the 1854 mm (73 in) CV18.
- **Direct drive system** uses a variable speed, bi-directional gear style hydraulic motor that is matched to the Cat Skid Steer Loader's standard flow auxiliary hydraulic circuit for excellent performance. The drive motor is keyed to an oil filled eccentric weighted shaft that is attached directly to the drum. The eccentric shaft creates an unbalanced motion, resulting in drum vibration. Tapered roller bearings support the shaft, while radial ball bearings allow the drum to rotate on the shaft. Drum and shaft bearings are oil bath lubricated and cooled for long life. A relief valve on the shaft protects the bearing seals. The design allows for quick drum replacement.
- **Durable high strength steel drums** are roll formed and butt welded for long life.
- **A spring-loaded scraper bar** is standard to prevent material buildup on the drum.
- **Oscillating tilt** is capable from a pivoting interface that allows  $\pm 15$  degrees of oscillation to follow the contour of the ground.
- **Caterpillar XT 3-ES hose, couplings and o-ring face seals** provide superior leak free performance and reliability. All hoses are wrapped with nylon woven Cordura sleeving for added operator protection. Hydraulic quick disconnects enable fast tool changes.

## Specifications/Dimensions



### Quick Coupler

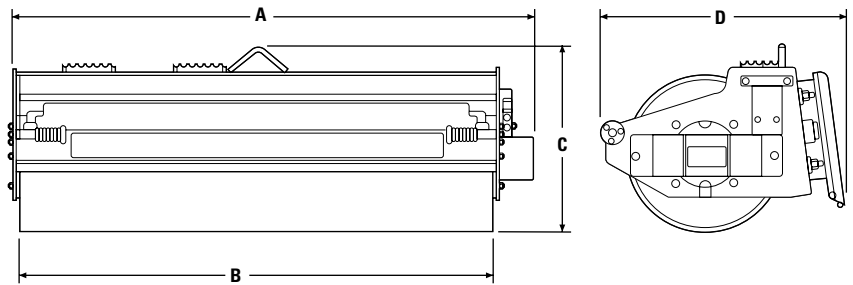
Caterpillar Skid Steer Loader Work Tools incorporate an interface that matches the Caterpillar machine's integrated mechanical quick coupler system. The rugged, opposing wedge design holds the work tool tightly and allows the operator to quickly change from one high performance Cat Work Tool to another.

### Serviceability

Cat Vibratory Compactors utilize proven components such as Caterpillar hose, couplings, o-ring face seals and hardware. A full line of replacement parts is readily available from your Cat dealer to help extend work tool system life.

### Customer Support

Caterpillar is always ready to assist you in matching the right work tool to your application or machine, adding more Cat Work Tools to your lineup, or obtaining responsible, knowledgeable support.



	CV16 Vibratory Compactor	CV18 Vibratory Compactor
A Overall width	1901 mm (75 in)	2080 mm (82 in)
B Drum width	1676 mm (66 in)	1854 mm (73 in)
C Overall height	737 mm (29 in)	737 mm (29 in)
D Overall length	965 mm (38 in)	965 mm (38 in)
Drum diameter	610 mm (24 in)	610 mm (24 in)
Weight	749 kg (1650 lb)	780 kg (1720 lb)
Drive method	Direct drive	Direct drive
Number of motors	One	One
Motor size	31.5 cm <sup>3</sup> (1.9 in <sup>3</sup> )	31.5 cm <sup>3</sup> (1.9 in <sup>3</sup> )
Hydraulic flow range	42-83 lpm (11-22 gpm)	42-83 lpm (11-22 gpm)
Hydraulic pressure range	145-227 bar (2100-3300 psi)	145-227 bar (2100-3300 psi)
Drum oscillation range	±15°	±15°
Drum frequency	2000 vpm @ 57 l/min (15 gpm)	2000 vpm @ 57 l/min (15 gpm)
Dynamic force	3972 kg (8740 lb)	4654 kg (10,240 lb)
Total applied force	4737 kg (10,440 lb)	5530 kg (12,189 lb)
Fasteners	Cat	Cat
Hydraulic hose	Cat XT-3 ES	Cat XT-3 ES

## Compatibility

Following are the recommended and approved Cat Skid Steer Loader/Vibratory Compactor combinations for maximum system performance.

Skid Steer Loader Model	CV16 Vibratory Compactor	CV18 Vibratory Compactor
216 Skid Steer Loader	●*	!
226 Skid Steer Loader	●	!
236 Skid Steer Loader	●	●
246 Skid Steer Loader	●	●

● Provides optimum system performance.

! Not approved. Do not use.

\* Lift restriction! Do not raise lift arm - work tool hinge pin higher than 1 m (3 ft) above ground. Tipping can result.

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Materials and specifications are subject to change without notice.  
Featured machines in photos may include additional equipment.  
See your Caterpillar dealer for available options.

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