

Road Machinery Statistics Committee Product Definitions and Quick Links

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Vibratory Roller Walk-Behind, 2D (CEA2)

Walk behind vibratory roller with dual heavy-duty machined steel drums used for a wide variety of asphalt and soil compaction applications

Reporting classification: by Kilograms



Trench Rollers Double Drum (CEA3)

Walk behind, remote controlled or ride-on vibratory roller with dual heavy-duty machined steel drums for the compaction of base coarse, various sizes of aggregate and a variety of soil conditions. These rollers are used for operation in confined areas such as trenches where turning would otherwise be difficult if not impossible.

Reporting classification: by Metric Tons



Vibratory Tandem Roller, 2D (CEB0)

Ride-on steel wheel roller with two (double drum) drums mounted on tandem axles, which compacts pavement using the combined force of the roller's weight and the vibration of the drums.

Designed for compaction of bitumen mixtures and other types of layers in a variety of construction projects

Reporting classification: by Metric Tons and Drum Width



Vibratory Tandem Roller, 1D (CEC0)

Ride-on steel wheel roller with two (double drum) drums mounted on tandem axles, which compacts pavement using the combined force of the roller's weight and the vibration of the one drum.

Designed for compaction of bitumen mixtures and other types of layers in a variety of construction projects. Machine looks like any other tandem, vibratory, roller except that only one of the drums will vibrate.

Reporting classification: by Metric Tons



Vibratory Single Drum – Asphalt (CEE1)

Roller with one vibratory drum used to compact asphalt using the combined force of the drum's weight and the vibration of the drum. Look almost identical to a single drum soil compactor, except for the smooth rear tires and the front mounted water tank. Designed for compaction of bitumen mixtures and other types of layers in a variety of construction projects.

Reporting classification: by Metric Tons



Vibratory Single – Soil Smooth (CEE2)

Roller with one, smooth, vibratory drum and tires on the rear used to perform compaction on water bound materials, sand, gravel and sub-bases, and a variety of soil compaction jobs, such as granular soil jobs, cohesive soil jobs, streets and roads, parking areas and building sites, Versatile with good maneuverability in confined areas.

Reporting classification: by Metric Tons an Drum Width



Vibratory Single Drum – Soil Padfoot (CEE3)

Roller with one padfoot drum used to perform a variety of soil compaction jobs; such as cohesive and high-water content materials. Versatile with good maneuverability in confined areas.

Reporting classification: by Metric Tons and Drum Width

New Definition Below as of 1/1/2024 (passed unanimously for North America in May 2023 and unanimously for the Worldwide change via the ISC in December 2023)

Roller with one padfoot drum (padfeet are welded to the original drum) used to perform a variety of soil compaction jobs, such as cohesive and high-water content materials. Versatile with good maneuverability in confined areas. Definition of padfoot drum excludes bolt-on shell kits.



Combination Rollers (CEF0)

Roller with one vibratory, smooth drum and a set of tires of similar width as the drum width used to compact a combination of surfaces including bituminous mixtures in large works, base, intermediate and running layers, but also in non bituminous mixtures like gravel, cement, dry concrete, stabilized soils. Versatile with good maneuverability in confined areas.

Reporting classification: by Metric Tons



Pneumatic Tired Roller (CEG0)

A roller that uses rubber tires mounted on the front and rear of the compactor. The wheels that the tires are mounted to oscillate, which means they are capable of moving up and down independently of each other or in groups. The pneumatic roller compacts by using the combined force of weight and the kneading action of the rubber tires.

Sized by: Tonnes Max Wheel Load



3 Wheel Roller (Static) (CEH2)

A steel wheel roller with three drums, two drums mounted on one axle and a smaller drum mounted on one axle, which compacts a pavement using the force of the roller's weight. The configuration of the drums on a three-wheel roller allows it to compact longitudinal joints without interfering with traffic in the adjacent lane.

Reporting classification: by Metric Tons



Embankment – Pad/Sheep (CEK1)

Soil compactors primarily designed to densify or pack soil resulting in increased weight per unit volume. Designed to use one or a combination of static weight (or pressure), kneading action (or manipulation), impact (or sharp blow), or vibration (or shaking).

Reporting classification: by Metric Tons



Refuse – Pad/Sheep (CEK2)

Refuse/landfill rollers are specialized equipment primarily designed for spreading and compacting large volumes of waste in a landfill environment. These rollers are configured and guarded to work in a waste environment and are capable of achieving superior compaction levels

Reporting classification: by Metric Tons



Vibratory Plate – Forward (CEL1)

A hand operated vibratory plate that is used in the forward moving compaction of granular loose soils and gravels in the creation of firm and stable surfaces. Plate compactors are also used to set the paving stones in the sand bed and to settle the joint sand. Vibratory plates operate in confined areas for the compaction of sand, gravel and crushed aggregate, as well as hot and cold asphalt.

Reporting classification: by Kilograms



Vibratory Plate – Reverse (CEL2)

A hand operated or remote controlled reversible vibratory plate that compacts sand, gravel, and cohesive soils such as clay and silt. The vibratory plate has reversing and stationary features that allow compaction in confined areas where turning is difficult – or even impossible – for a non-reversing unit. Highly maneuverable, they are ideal for tightly confined areas

Reporting classification: by Kilograms



Vibratory Tampers (CEM0)

A hand operated vibratory tamper that typically has a low center of gravity and a variable column guide. Tampers have a horizontal force component for moving forward. They are typically used to compact bituminous material in a very confined space.

Reporting classification: by Metric Tons



Cold Planers (CPRM)

Self-propelled construction machine (either rubber-tired or crawler mounted) specifically designed to cut a pavement to a predetermined depth, grade or slope, and which reduces the pavement material in size in the process, using a rotating drum equipped with special cutting tools. This milling machine is designed to restore pavement surface to a specified grade and slope; remove bumps, ruts, and other imperfections; and leave a textured surface that can be opened immediately to traffic or overlaid with new pavement materials.

Reporting classification: by Inches



Asphalt Pavers (CEAP)

Self-propelled machine (either rubber-tired or crawler mounted) consisting of a tractor of a certain width designed to tow an asphalt screed of a certain width, used to distribute, shape, and partially compact a layer of asphalt on the surface of a roadway, parking lot or other area. The paver receives asphalt, conveys it through the tractor and distributes it in front of the screed.

Reporting classification: by Combination of Horsepower and Under Carriage



Road Reclaimers/Soil Stabilizers (Horsepower) (RS01)

Road reclaimers are self-propelled machines that pulverize the asphalt layer and mix it with the underlying base to stabilize deteriorated roadways. Reclaimers can add asphalt emulsions or other binding agents during pulverization or during a separate mix pass. Soil stabilizers are self-propelled machines that cut, mix and pulverize native in-place soils with additives or aggregates to modify and stabilize the soil for a strong base. Different cutting depths are available to match job requirements.

Reporting classification: by Horsepower

