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CA-C-1907 ALL

Sixty-Fifth Annual Catalog

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1842-1907

J. I. CASE THRESHING
MACHINE CO.
(INCORPORATED.)

J. I. CASE
THRESHING MACHINE CO.
RACINE, WIS.
U. S. A.

J. I. CASE
THRESHING MACHINE CO.
RACINE, WIS.
U. S. A.

Stepping Stones to Perfection

If we stood still the "annual catalog" would be unnecessary, and a consequent large expenditure eliminated. But we move forward every day and every year, our annual catalog measuring as a stepping-stone, the upward climb toward perfection.

Sixty-five years of intelligent and consistent striving, always animated by the purpose to excel, and the substantial appreciation by customers of that purpose, has placed CASE machinery far in the forefront of all competition.

It is not our purpose to rest on the laurels won in the past but to push ahead with improvements in materials and manufacture and thereby attain still greater superiority and win a still greater percentage of the business than ever before. Our volume of trade was unprecedented in 1906—we hope to make it even more so in 1907.

That hope, we sincerely believe, will be advanced a long way towards realization if every intending purchaser will take the trouble to study our 1907 catalog.

Racine, Wisconsin. U. S. A.

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BRANCH HOUSES

Alberta, Calgary
California, Oakland
Colorado, Denver
Georgia, Atlanta
Illinois, Chicago
Freeport
Peoria
Indiana, Indianapolis
Iowa, Des Moines
Mason City
Waterloo
Kentucky, Louisville
Louisiana, Lake Charles
Manitoba, Winnipeg
Minnesota, Fergus Falls
Mankato
Minneapolis

Michigan, Jackson
Missouri, Kansas City
Saint Louis
Nebraska, Lincoln
New York, Syracuse
North Carolina, Greensboro
North Dakota, Carrington
Bismarck
Casselton
Devil's Lake
Fargo
Grand Forks
Hillsboro
Harvey
Minot
Park River
Wahpeton

Ohio, Columbus
Oklahoma, Oklahoma
Ontario, Toronto
Oregon, Portland
Pennsylvania, Harrisburg
Saskatchewan, Regina
South America, Buenos Aires
South Dakota, Aberdeen
Mitchell
Watertown
Tennessee, Memphis
Nashville
Texas, Amarillo
Dallas
Washington, Spokane
Wisconsin, Madison
Oshkosh

Factory and General Offices at Racine, Wisconsin, U. S. A.

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J.I. Case Threshing Machine Co. Racine, Wis. U.S.A.

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Mounted on Springs

The wide popularity of our engines is due, in a large degree, to the splendid system we employ for mounting the boiler on springs and which relieves it of the serious strains imparted by the traction gear in passing over rough or stony roads.

Such strains are very injurious and in time weaken a boiler to such an extent as to render it very dangerous, although apparently in sound condition. Our success with a spring-mounted engine has naturally led other builders to emulate our example but with far less satisfactory results.

Proper meshing of the traction gear must be maintained no matter what degree of undulation the boiler undergoes.

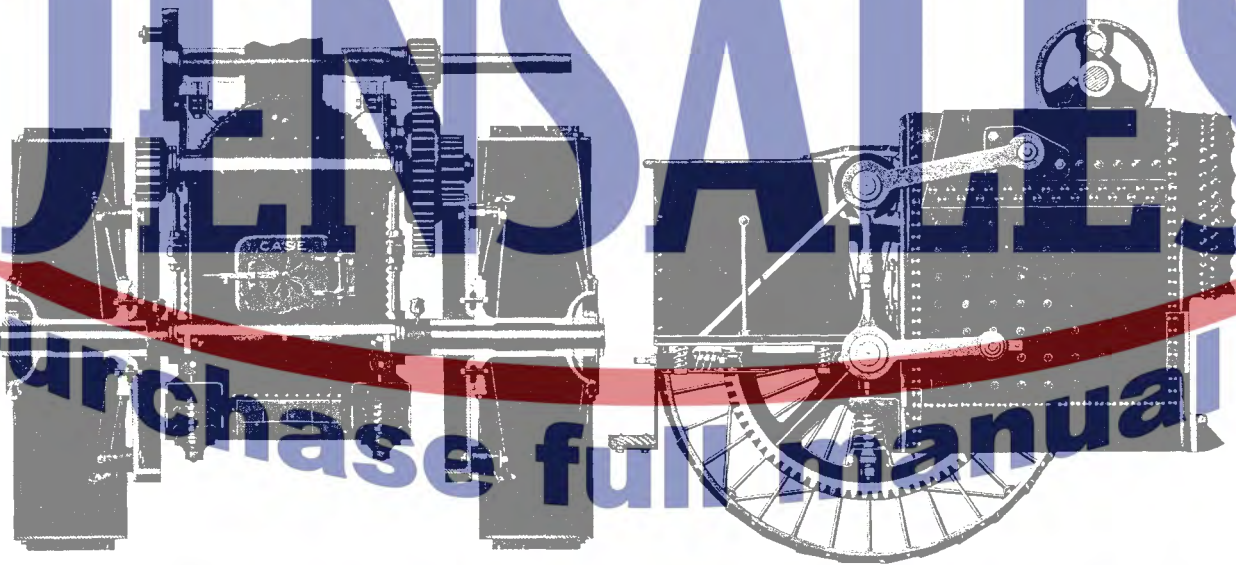


Illustration to Show Bearings of Countershaft and Rear Axle, Long Hubs of Traction Wheels, Distance Bars, and Springs Supporting Boiler

View of Radius Links, Distance Bar and one of the Springs Supporting Boiler

How this is accomplished on the CASE rear, double-gear engine we have endeavored to make clear in the accompanying engravings. It will be observed that the boiler has spring-pot brackets on the lower corners which carry the weight on the double spiral springs. The latter are hung from the lower cannon bearing on eye-bolts which do not interfere with their expansion or compression.

Two Steel Radius Links on either side of the boiler connect with the cross-shaft and the axle of the drive wheels. These permit an up-and-down movement of the boiler, without disturbing its horizontal position, and save it from all strain of the traction gear.

The Distance Bars connect the upper and lower cannon bearings, maintaining a parallel relation between the drive-axle and cross shaft. They are provided with turnbuckles which may be adjusted to keep the gears meshing properly.

A Steel Crosslink bolted to the top of the boiler on a stud bearing, and to a trunnion on the upper cannon bearing, (see cut on preceding page) prevents any independent side play of the boiler or cross-shaft.

Prices Quoted on Pages 60, 61 and 62



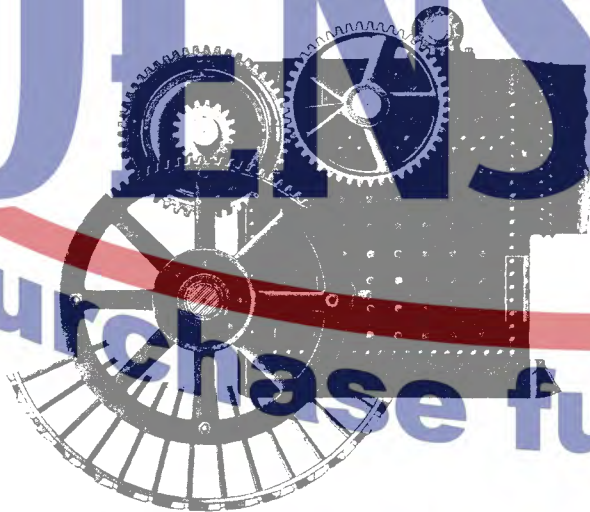
J.I. Case Threshing Machine Co. Racine, Wis. U.S.A.

The Lower Cannon Bearing has a strong lug cast next to the boiler. This lug is fitted with a malleable slide which is kept in position by steel guides bolted to the boiler under fire-door. This, with the crosslink above, prevents all side or end play.

The Pitch Lines of the teeth in the driving-gears are always maintained in their proper relative position by the action of the radius links and distance bars. This point is of great importance and is not attained so successfully by any other device.

The boiler is thus not only relieved of the severe strains of the driving-gears, and breakage reduced to the minimum, but the greatest freedom of vertical movement, with reference to the axle, is secured and therefore the best possible results of a spring-mounted engine.

The Traction Gears on all CASE engines are made of special semi-steel and for that reason are much more durable and 40 per cent stronger than the ordinary cheap, cast gears usually found on farm engines. That our gears have great strength has been demonstrated by the hard work they have been subjected to, such as plowing, freighting and grading.



Steel Traction Gears well Proportioned and High Mounted
out of dust and dirt.



Traction Wheel and Gear.

The Spring Differential Gear is on the countershaft. In its operation, power is first transmitted to the spur gear rim, which contains the cushion springs, thence by the springs to the center ring containing the four bevel pinions, which bear equally upon the bevel gears on either side. The whole differential gear moves together as one wheel when the engine is moving straight ahead or back, but when turning a corner the four pinions revolve in the bevel gears just in proportion to the sharpness of the curve. All shocks caused by sudden starting of the engine in either direction are absorbed by the springs, and the motion transmitted gently to the driving gears.

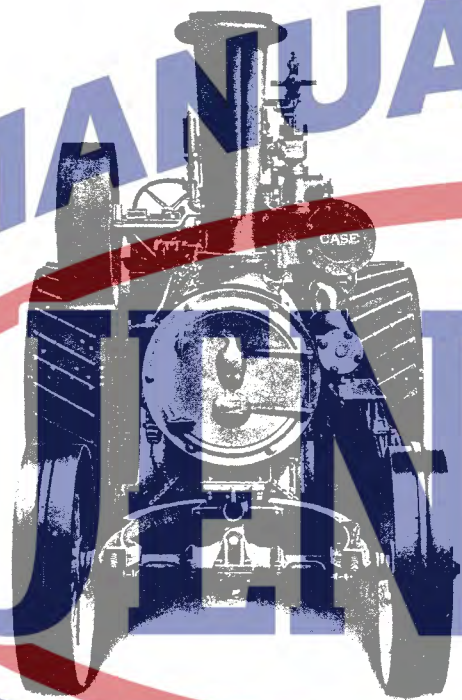
Power is applied to both drive wheels by the heavy cross-shaft pinions to the large bull gears bolted to the hubs and braced from the rims of the drivers.

The Traction Wheels have steel spokes and rims and are therefore stronger and lighter than the cast-iron kind. The rims vary in width according to size of engine from 14 to 24 inches, and 36 inches for plow engines.

The grouters are riveted diagonally across the rims. They are $1\frac{3}{4}$ inches high and give the wheels a good grip in soft ground or on slippery grades.

Prices Quoted on Pages 60, 61 and 62.

J.I. Case Threshing Machine Co. Racine, Wis. U.S.A.



Front View of Traction Engine.



Showing Platform Conveniences.

The Smoke Stack is cast in one piece and bolted to the base. A cone screen with adjustable lifter and spark-collecting device is provided, which is a good safeguard against fire from flying sparks regardless of the kind of fuel used.

The Fittings on CASE Engines are the best money can buy. They comprise the CASE oil pump for lubricating the cylinder, which is positive and perfect in operation in even the coldest weather. We use them exclusively.

The Marsh is the simplest steam pump that can be had and is a reliable boiler feeder. Some operators prefer an injector to the steam pump, so we equip our engines with both. The Penberthy injector is perfectly automatic in that it picks up the water again, should the current be broken from any cause, without any attention by the operator. Both pumps and injector have a separate suction pipe to the tank, so they can be worked independently should one or the other get clogged or refuse to work.

We have used the Waters' governor many years and consider it superior to all others for traction and portable engines. The valve seats are all in one casting, with provision for contraction and expansion. They can never get out of line or lose their relative distance from one another. The valve seat can be easily renewed should it become necessary.

Other essential fittings are the steam gauge, water gauge, pop valve, lubricator for pump, globe and angle valves, compression grease and oil cups, whistle, complete set of wrenches, flue scraper, etc.—a complete list of which will be found on page 62.

"The CASE Oil Pump is superior to all the lubricators I have ever had—saves the oil, feeds steadily and works a half day without refilling, as no water or steam gets in. It does not need to be drained and is always ready for action in the morning."

Oscar Viertel, Powell, South Dakota.

Prices Quoted on Pages 60, 61 and 62.