

TRUCK SALES INFORMATION

NEW

Packard

MOTOR TRUCKS



Hydraulic Hoist
and
Dump Body
Improved Type

Manufactured exclusively by
The Wood Hydraulic Hoist Co.
Detroit, Michigan

Number 6 Issued Jan., 1917

Property of
Packard Motor Car Company
Detroit, Mich.

Description

The hoist is of the hydraulic type, using an ordinary grade of gas engine cylinder oil.

The hoist cylinder is made of Shelby Steel Tubing, and is accurately machined to an inside diameter of 6 inches.

The piston rod is also made of steel tubing 4 inches in diameter. The piston proper is made of cast iron and carries two eccentric split piston rings.

Cable guards are placed over the cable sheaves to prevent the possibility of the cables leaving the grooves. A heavy cable equalizer bar is located in front of the cylinder base and provision is made for easy and positive adjustment of cable lengths.

The oil pump consists of two spur gears running together in a cast iron housing. The oil pump housing is mounted on the cylinder base front angle. Pump gear shafts are hardened and ground and run in bushings in the pump case, provision being made for pressure lubrication of these bearings from the action of the pump itself.

The oil pump is equipped with two stuffing boxes, one on the driving shaft and one on the valve shaft, and both these stuffing boxes are so located as to be readily accessible for adjustment or repacking.

The oil pump is driven at a slightly higher speed than the motor crank shaft by means of chain and sprockets from the front universal joint shaft. The drive from the front universal joint shaft is through a universally jointed jaw clutch and none of the pump driving mechanism is in motion at any time except during hoist operation.

The hoist cylinder is equipped at its upper end with an oil tank giving a reserve oil supply and preventing the oil pump from becoming air bound. The hoist cylinder is carried at the base on two chassis cross angles, which are strongly attached to the chassis frame. The upper end of the hoist cylinder is braced to the base angles by means of heavy truss rods.

In operation, the mechanism is practically fool-proof, the only care required being to disengage the motor clutch before engaging the oil pump driving clutch.

With the oil pump running, its valve can be placed in any position without damaging the mechanism, and the hoist piston automatically stops at its extreme upward limit of travel when it uncovers a by-pass port in the cylinder wall.

The levers for engaging the pump driving gears and for controlling the pump valve are mounted on the oil tank on top of the hoist cylinder within easy reach of the driver. The entire dumping operation, including the opening and closing of the tail gate can be accomplished without the driver leaving his seat.

This hoist will elevate a six ton load to a 45 degree dumping angle in 25 seconds.

Bodies

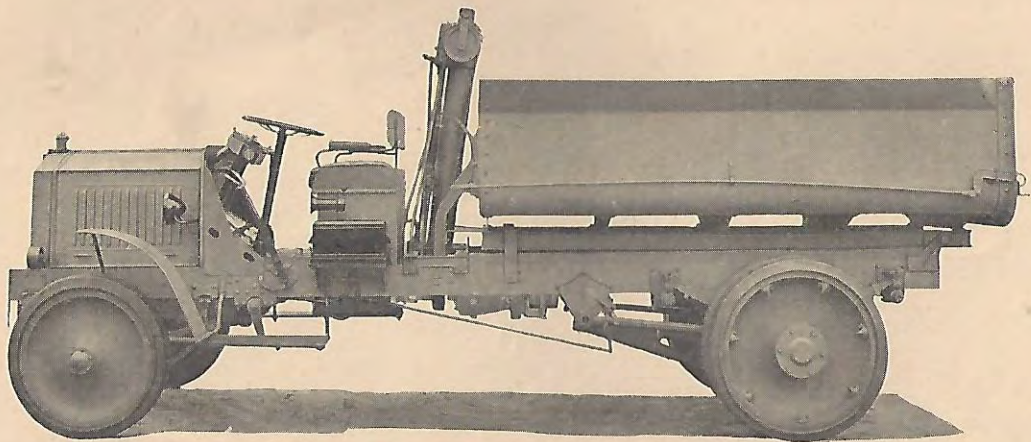
Bodies are mounted on substantial I beams. The body proper is made of steel plate.

The tail gate is closed by gravity and is latched or unlatched by a hand lever within easy reach of the driver from his seat. The tail gate forms the entire rear end of the body, giving the maximum opening for load discharge, and is so arranged that the opening may be restricted for spreading gravel or earth with the truck in motion.

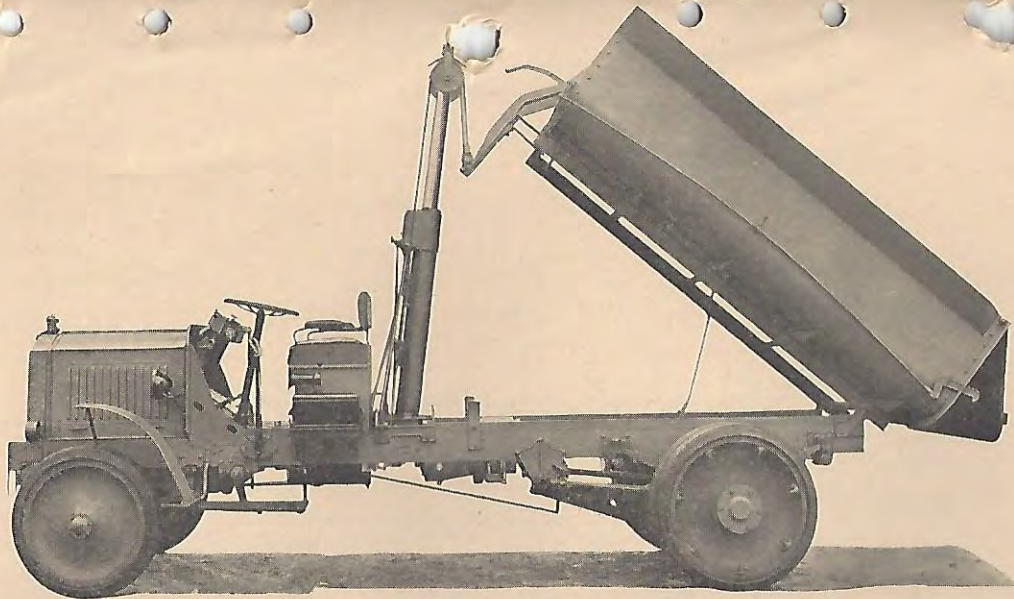
The body pivot point is set well toward the rear end of the body, obviating any possibility of the body tipping by center when dumping on the side of a hill or an incline.

When the body is in its lowered position, it rests on two hard wood beams, which run practically the entire length of the chassis frame. This mounting gives a cushion for the body, preventing rattles and attendant wear.

Bodies for carrying hot asphalt are tapered from front to rear and are made of double sheet steel insulated from each other by $\frac{1}{2}$ " of asbestos.



Packard 5E Chassis With Body in Normal Position



Packard 5E Chassis With Body Elevated

Dimensions and Prices

	3-E	4-E	5-E	6-E
Wheel Base	13' 0"	13' 0"	13' 0"	13' 0"
Length of Body (clear)	10' 0"	10' 0"	10' 0"	10' 0"
Width of Body (clear)	6' 0"	6' 0"	6' 0"	6' 0"
*Height ground to bottom of body (Not Loaded)	3' 11½"	4' 1½"	4' 1½"	4' 1½"
*Height ground to top of hoist (Not Loaded)	8' ½"	8' 2½"	8' 2½"	8' 2½"

*Different makes of tires will cause slight variations in figures given.

Prices quoted are f. o. b. Detroit and include hoist and body attached to chassis, all painted in prime.

Material	3-E	4-E	5-E	6-E
Sand and Gravel Crushed Rock Road mat'l Com. brick	54 Cu. Ft. Height 11"	77 Cu. Ft. Height 15½"	94 Cu. Ft. Height 19"	108 Cu. Ft. Height 22"
	\$499.00 (2 Cu. Yds.)	\$515.00	\$539.00	\$546.00 (4 Cu. Yds.)
Cement Earth	81 Cu. Ft. Height 16"	104 Cu. Ft. Height 21"	135 Cu. Ft. Height 27"	155 Cu. Ft. Height 31"
	\$526.00 (3 Cu. Yds.)	\$546.00	\$563.00 (5 Cu. Yds.)	\$579.00
Ant. Coal	104 Cu. Ft. Height 21"	135 Cu. Ft. Height 27"	162 Cu. Ft. Height 32"	195 Cu. Ft. Height 39"
	\$546.00	\$563.00 (5 Cu. Yds.)	\$579.00 (6 Cu. Yds.)	\$593.00
Bit. Coal	122 Cu. Ft. Height 24"	155 Cu. Ft. Height 31"	195 Cu. Ft. Height 39"	215 Cu. Ft. Height 43"
	\$563.00	\$579.00	\$593.00	\$606.00
Asphalt	60 Cu. Ft. Height 17" Width at fr't 4' 0"	80 Cu. Ft. Height 20" Width at fr't 4' 6"	100 Cu. Ft. Height 22½" Width at fr't 5' 0"	120 Cu. Ft. Height 27" Width at fr't 5' 0"
	Width at rear 5' 0"	Width at rear 5' 6"	Width at rear 6' 0"	Width at rear 6' 0"
	\$639.00	\$655.00	\$666.00	\$679.00

All capacities based on the average weights of the materials listed.

Painting chassis and body, standard colors,
extra \$60.00. Lettering extra.

Hydraulic Hoist Only

Unattached, \$250.00.

Attached to chassis, \$270.00.

Special Bodies

Prices on bodies of different dimensions than given above can be furnished on application, provided weight of load and body does not exceed allowable weight on chassis to which it is to be applied.

Approximate Weights of Various Materials Hauled on Packard Dump Trucks

	(Per Cu. ft.)	Pounds
Ashes.....		40 to 45
Asphalt.....		100
Brick, common.....		108
Brick, fire.....		145
Brick, hard.....		125
Brick, pressed.....		135
Brick, soft.....		108
Cement, loose Portland.....		77
Charcoal.....	20 to 30	
Clay.....	120 to 150	
Clay, fire.....		130
Coal, Anthracite.....		60
Coal, Bituminous.....		50
Coke.....	23 to 32	
Earth, loose.....		77
Emery.....		250
Granite.....	160 to 190	
Gravel.....		108
Lime quick, in bulk.....		55
Limestone, crushed.....		108
Marble.....	160 to 180	
Mud.....		100
Quartz.....		165
Sand.....		108
Sandstone.....	140 to 150	
Slate.....	170 to 180	
Stone, crushed.....		108