

TB 5-9720-15

WAR DEPARTMENT TECHNICAL BULLETIN

TECHNICAL DATA FOR TRAILERS

WAR DEPARTMENT

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APRIL 1945

WAR DEPARTMENT

WASHINGTON 25, D. C., 6 April 1945

TB 5-9720-15, Technical Data for Trailers, is published for the information and guidance of all concerned.

[AG 300.5 (27 Mar 45)]

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Refer to FM 21-6 for explanation of distribution formula.

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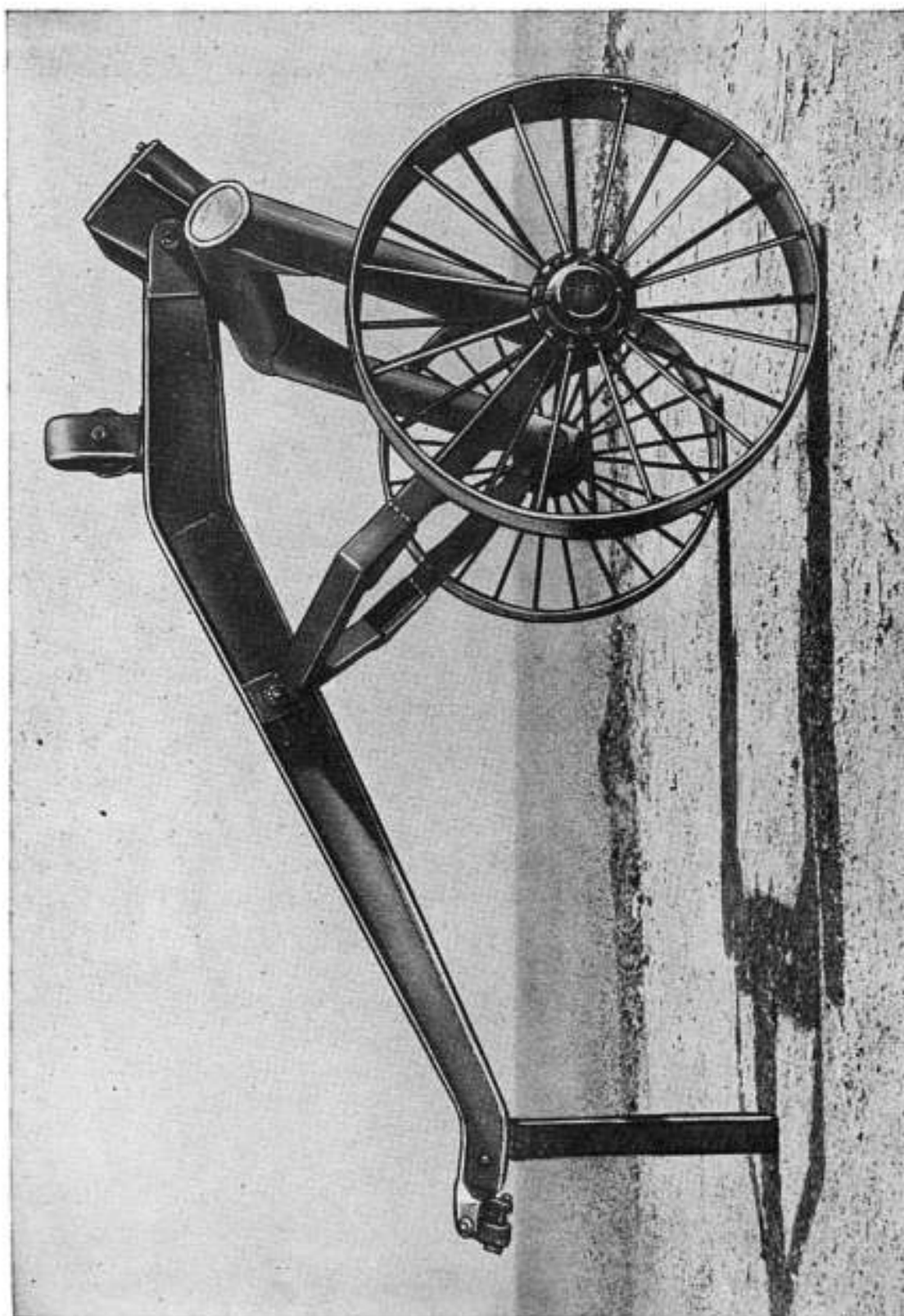


FIGURE 1. *Hyster D-4 towed type logging arch without boom.*

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ARCH, LOGGING, TOWED TYPE, STEEL WHEEL-MOUNTED,
WITHOUT BOOM, HYSTER D-4

MFR: Willamette-Hyster Company,
Peoria, Illinois.

STOCK No.: 78-1402.500-500

MODEL: D-4

1. GENERAL: This logging sulky is designed for use with Caterpillar D4 or R4 tractors equipped with towing winches. Adapted to either selective or clean-cut logging, the sulky is used for skidding logs, poles and small timber. By suspending the forward ends of the logs under the arch of the sulky, the load is carried on the free rolling wheels. Digging-in is eliminated and ground friction reduced. The unit, equipped with a specially designed fairlead, is mounted on large steel wheels.
2. REFERENCES: For further information regarding this equipment, refer to: ASF Supply Catalog, Sections ENG 7-C10 and ENG 8-C10.
3. WHEELS: Type: steel. Diameter: 52 in. Width: 12 in. Wheelbase: 108 in. Tread (center to center of wheels): 91 in.
4. CABLE AND ATTACHMENTS: Cable: IWRC or WSC plow steel, 6 x 19 strand, regular lay. Sizes used: 2. Diameter: (1) $\frac{5}{8}$ in.; (2) $\frac{3}{4}$ in.; Length: 50 ft. sections. Attachments: shackle; hooks $1\frac{1}{2}$ and $\frac{5}{8}$ in.; Chocker $\frac{5}{8}$ and $\frac{3}{4}$ in. ferrules.
5. DIMENSIONS (over-all): Length: 144 in. Width: 105 in. Height: 84 in. Inside dimensions: Width 61 in.; Height (inside arch) 66 in.
6. WORKING WEIGHT: 2,800 lb.
7. SHIPPING DATA: Boxed for export, partially assembled. No. of boxes: 2.

Box No.	Measurement in inches			Cubage (cu ft)	Weight (lb)
	Length	Width	Height		
1.....	105	33	89	235	3,482
2.....	133	19	89	130	600

Total cubage: 365 cu. ft.; total weight: 4,082 lb.

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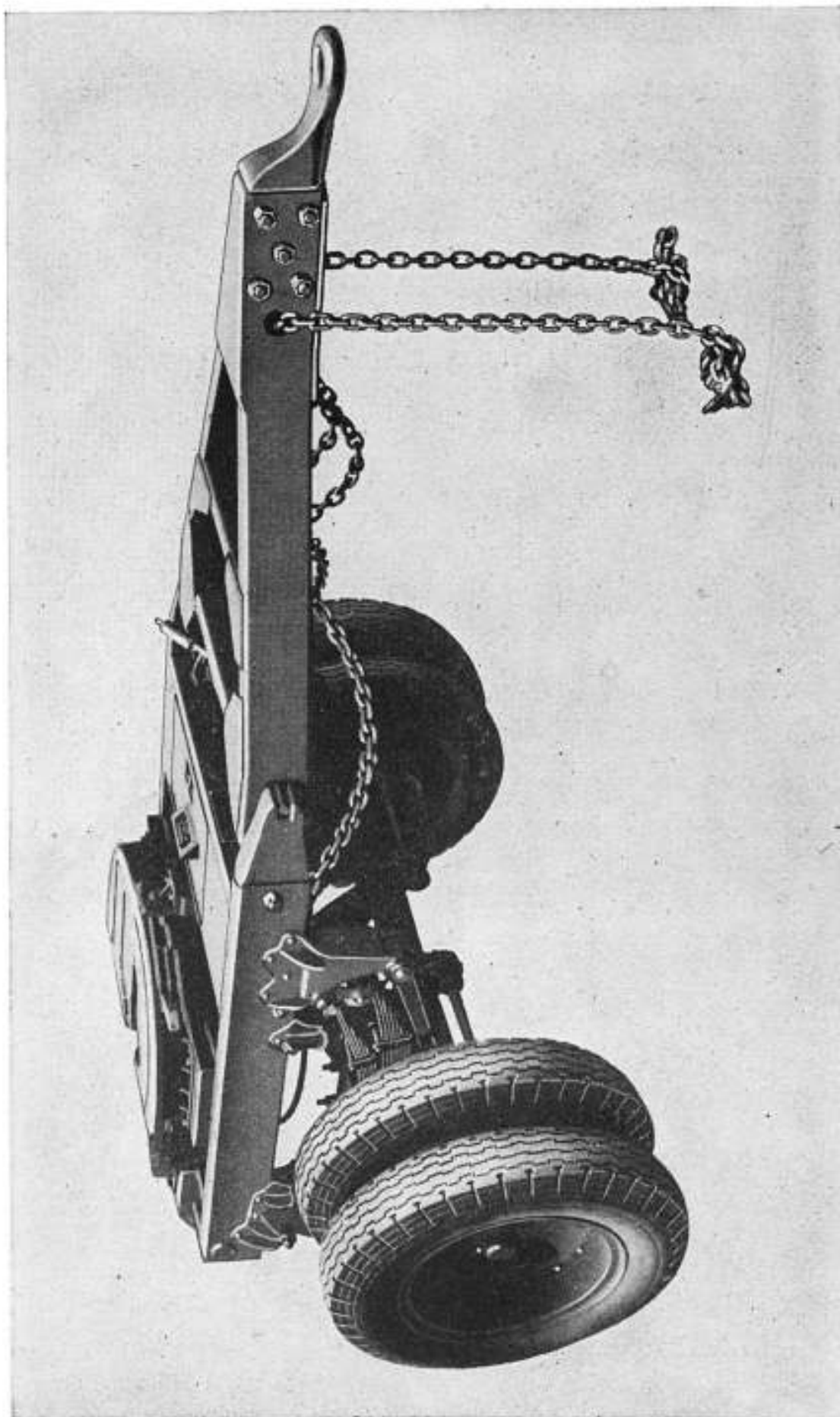


FIGURE 2. 4½-ton 2-wheel dolly, Dart model 40.

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DOLLY, 2-WHEEL, 2 DUAL TIRES, 4½-TON DART, MODEL 40

MFR: Dart Truck Co.,
Kansas City, Missouri.

STOCK No.: 78-3440.300-300

MODEL: 40

1. **GENERAL:** The Dart model 40 dolly is used to convert a semi-trailer to 4-wheel trailer, thus making a unit that requires a prime mover for towing. The dolly consists of a pressed steel rectangular frame of welded construction with semiautomatic fifth wheel connector mounted on trailer springs and axle assembly. It is equipped with a drawbar which will fit the standard pintle hook at the rear of both truck and trailer. When not in use as part of 4-wheel unit, the dolly can be towed at rear of semitrailer. Capacity: 4½ tons.
2. **REFERENCES:** For further information regarding this equipment, refer to: TM 5-9156; ASF Catalog, Sections ENG 7-D59 and ENG 8-D59.
3. **FIFTH WHEEL CONNECTOR:** Make: Austin. Model: 3275-A. Size: 36 in. Type: rigid mounted, semiautomatic.
4. **SUSPENSION:** Consists of two spring assemblies and brackets, and two radius rods and brackets. Springs: Type: Shackled, semi-elliptical. Material: alloy steel. Springs are set on a square seat which is welded to axle. U-bolts hold the spring and axle together. Helper springs: attached by spring center bolt. Radius rods: adjustable, for aligning axle.
5. **AXLE:** Make: Timken-Detroit Axle. Model: T-11125 PA-x-11. Complete assembly includes tube, bearing cones and cups, nuts, washers, and hub and drum assembly. Slack adjusters and Westinghouse Brake Diaphragms are installed on axle.
6. **BRAKES:** Make: Fruehauf. Type: Two-shoe, constant-pressure type, Bendix-Westinghouse actuated. Diameter: 16½ in. Width: 4 in. Lining: moulded, heavy-duty. Brakes of dolly and trailer are synchronized with those of prime mover. They are designed to stop a fully loaded trailer (when used as part of a 4-wheel unit) in 30 feet at 20 mph.
7. **WHEELS:** Make: motor wheel. Type: disc, 6-hole. Size: 7 x 20 in.
8. **TIRES:** Size: 7.50 x 20. Type: 8 ply. Recommended pressure: 55 lb.
9. **TOWING SPEED:** 35 mph.

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10. **LIGHTING:** Wiring system: 6-8-volt. Reflectors: 4, red. Fuses: -amp. Circuits: 2, regular and blackout. Current supply: through jumper cable. Switch: in prime mover. Lights: blackout stop and tail, and service stop, tail and blackout.
11. **DIMENSIONS (over-all):** Length: 145 in. Width: 85 $\frac{1}{4}$ in. Height: 50 in.
12. **WORKING WEIGHT:** 2,900 lb.
13. **SHIPPING DATA:** Boxed for export, completely assembled. No. of boxes: 1. Length: 90 $\frac{1}{2}$ in. Width: 85 in. Height: 56 in. Cubage: 250 cu ft. Weight: 3,900 lb.