

CABLE REEL TRAILERS
HRD3 HYDRAULIC TRAILER

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1. GENERAL

1.01 This is a new section which covers the description and operation of the HRD3 trailer equipped with hydraulic lifts for loading standard reels of cable or strand. Reels up to 82 inches in diameter can be handled.

2. DESCRIPTION

2.01 The hydraulic system consists of two enclosed cylinders, one for each side of the trailer, controlled and operated by separate pumps, and supplied from an oil reserve tank.

2.02 The oil in the reserve tank should be measured frequently and maintained at a level between 1 and 2 inches below the top of the tank when cylinder pressure is released. Add approved hydraulic (Calol Multi-Machine ICH 15) oil when required. If hydraulic oil is not available, No. 10 SAE oil is permissible.

2.04 Each lifting cylinder has four horizontal lift areas or shelves, facing the rear of the trailer and spaced at six-inch intervals, to accommodate the reel spindle. The reel spindle is held on the shelf by a vertical keeper bar which is hinged at the bottom and locked at the top with a vertical pin and safety snap.

2.05 The mechanical stops provided on the wheel side of the lifting cylinder and the sliding horizontal bar mounted on the adjacent trailer frame are designed, when engaged, to hold the trailer load at the elevated position when the hydraulic pressure is lost through leakage or other causes.

2.06 When uncoupled, the tongue of the trailer rests on a swivel wheel having a ratchet operated spindle jack. Generally, the jack permits line-up of the trailer towing eye with the truck coupling device easily and safely without lifting the tongue.

2.07 When the trailer is coupled to the truck, the tongue wheel must always be raised and folded back to its towing position, as the jack will not support the weight when traveling.

3. SAFETY PRECAUTIONS

3.01 The horizontal safety bars should be placed under the mechanical stops before moving trailer.

3.02 Whenever possible, use a truck to maneuver the trailer into position for loading, unloading or for moving the trailer even short distances.

3.03 Always block the wheels of the trailer, release the tongue wheel from its towing position and lower wheel to ground before detaching the trailer from the towing truck.

3.04 Upon arrival at the work location, recenter and level the reel on the spindle and tighten collar set screws. When required, attach the brake drum to the reel, connect and adjust the chain brake to the desired tension before paying out cable or strand.

4. LOADING CAPACITIES AND TIRE SIZES

4.01 Three sizes of tires are used on the HRD3 trailer. The trailer weight, the maximum net load capacity and the maximum gross trailer weight for these tires are as follows:

<u>Tire Size and Number of Plies</u>	<u>Trailer Weight</u>	<u>*Maximum Net Load Capacity</u>	<u>Maximum Gross Trailer Weight</u>
2 - 9.00 x 20 - 10	2,300	6,000	8,300
2 - 9.75 x 20 - 12	2,300	7,200	9,500
2 - 10.00 x 20 - 12	2,300	7,200	9,500

*IMPORTANT: Do not exceed Maximum Net Load Capacities.

4.02 The maximum net load capacity includes the combined weight of the cable and reel.

4.03 The proper and minimum pressures for these tires are included in another section of the Practices.

5. LOADING A REEL OF CABLE

5.01 Maneuver the trailer to a position in front of the reel to be loaded and proceed as follows:

(a) Release the pressure on the lift cylinders; remove the rear tow bar, when furnished, and the reel spindle from the trailer. The tow bar is optional equipment.

(b) Place the spindle through the cable reel, center the reel and tighten the collars. Attach the brake drum to the reel.

(c) The reel may be rolled into the trailer or the trailer moved to the reel. In either case, the ends of the spindle bar must rest in a lift area. Close and secure the keeper bars and reattach the tow bar.

(d) Operate the hydraulic pumps to seat the spindle bar on the lifting shelf and level the reel. The reel should then be lifted to a height that will produce maximum ground clearance for the bottom of the reel.

5.02 Slide the horizontal safety bars under the mechanical stops and lock, before transporting the reel to the work location.

5.03 To unload a reel of cable from the trailer, reverse the procedure described above.

6. PLACING CABLE

6.01 The procedure for placing cable or strand from the HRD3 trailer is the same as that for other trailers described in other sections of the Practices.