

MODEL H140 WINCH for KOMATSU D155-AX-6

CARCO®

for KOMATSU

MODEL DESCRIPTION

The H140 is a hydraulically driven winch employing triple-reduction planetary gearing. The winch hydraulic motor provides automatic load-sensing variable displacement control to provide optimum speed at any load. For installation on the Komatsu D155AX-6, hydraulic power for the winch is obtained through the tractor ripper control circuit. No connection to the tractor PTO is required.

The H140 winch is capable of delivering infinitely variable line speed in both reel-in and reel-out from less than 2 ft/min (0.6 M/min) to 51 ft/min (15 M/min) on bare drum. On higher cable layers, maximum line speed is proportionally higher and maximum line pull is proportionally lower. The winch is equipped with a "drum clutch" function that allows the tractor to drive away from a load while maintaining tension on the cable. The winch also includes a "lock-in-low" feature which locks the winch variable displacement hydraulic motor in its maximum displacement (low speed, high line-pull) when continuous slow speed operation is desired.

When installed on the Komatsu D155AX-6, the winch reel-in/reel-out functions are controlled by the tractor's standard ripper control lever. The "drum clutch" and "lock-in-low" functions are controlled by supplemental rocker switches provided with the winch kit.

SPECIFICATIONS

CABLE DRUM SIZE

Throat Clearance7.50 in. (191 mm)
 Barrel Diameter12.5 in. (318 mm)
 Flange Diameter34.00 in. (610 mm)
 Barrel Length13.25 in. (337 mm)

HYDRAULIC SYSTEM

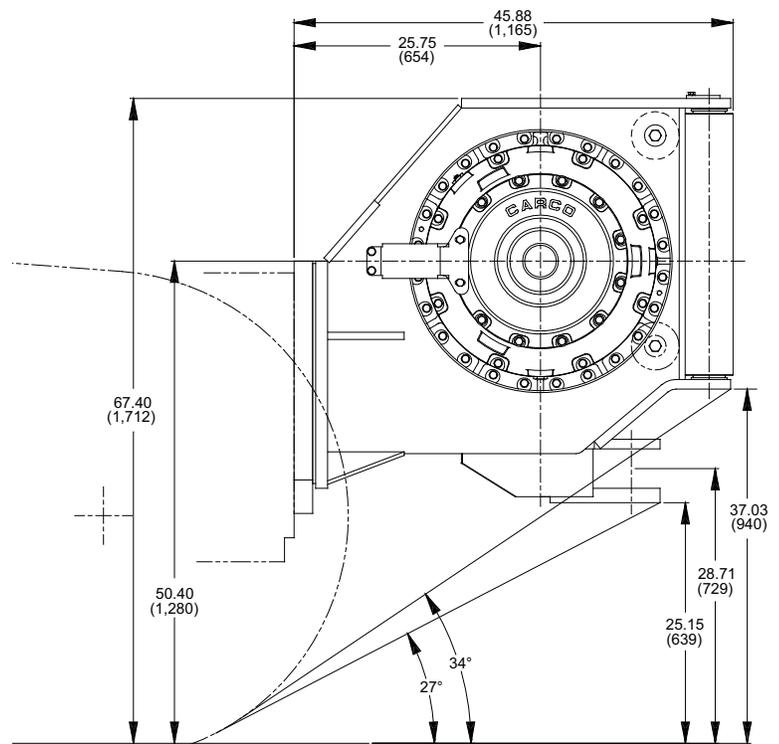
Infinitely variable 107 cc piston motor
 with patented Braden brake valve.
 Gear Oil Capacity16 qts (15 L)

GEAR RATIO

316:1

OPTIONS

One additional horizontal fairlead roller



Approved Cable Diameters	Maximum Theoretical Cable Capacity per SAE J1158†	Maximum Recommended Cable Capacity per SAE J706†	PACCAR Ferrule Part Number ‡
1-1/8 in (29 mm)	261 ft (80 M)	185 ft (56 M)	29428
1-1/4 in (32 mm)	207 ft (63 M)	119 ft (36 M)	29429

† Refer to PACCAR Publication LIT2435 for more information on proper wire rope selection for PACCAR Winches.

‡ Use six-strand IWRC RRL Wire Rope with PACCAR Ferrules.

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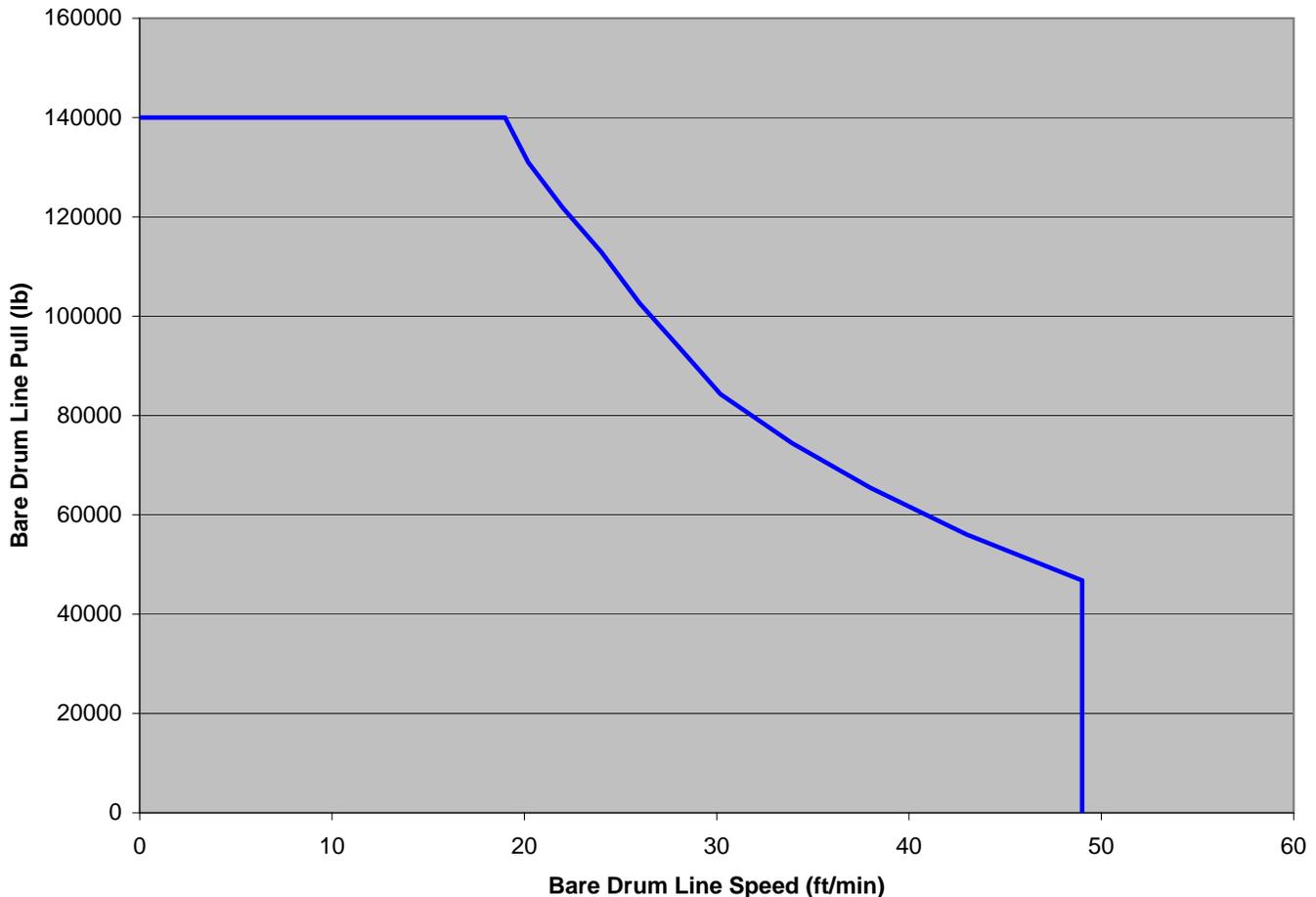
PERFORMANCE GRAPHS

Winch performance graphs are based on utilization of the full flow and pressure available from the tractor high pressure hydraulic system. Performance data is calculated using 1-1/4 in. (32 mm) wire rope.

Maximum rated line pull is 140,000 lb (623 kN) and maximum rated cable diameter is 1-1/4 in. (32 mm).

D155AX-6

Winch Performance based on 48 gpm (180 lpm) @ 3,980 psi (27,441 kPa)



The H140 winch is capable of operating anywhere in the areas under the curves shown on the above graphs. With load sense hydraulics, the tractor piston pump supplies only the flow required for the work function (winch). This allows the operator to creep a load for an extended period of time without adding any heat to the tractor hydraulics.

Hydrostatic steer tractors typically have adequate hydraulic cooling to meet the winching demand. Since paying-out is the only winch operation that generates heat, the heat can be further reduced by releasing the drum clutch to drive away from a load rather than paying-out cable.

Dealer Note:

Tractor must be equipped with the complete Komatsu ripper control system.