

Hesston Corporation flyer

This Prime Line flyer from the Hesston Corporation, farm equipment division, is a representation of the 480-8, 480-8DT tractor with colored illustrations and accompanying text. This publication funded by the National Historical Publications and Records Commission through the Kansas State Historical Records Advisory Board.

Creator: Hesston Corporation. Farm Equipment Division

Date: 1980

Callnumber: Hesston Public Library

KSHS Identifier: DaRT ID: 448761

Item Identifier: 448761

www.kansasmemory.org/item/448761



HESSTON 480-8 480-8 DT FIAT

Model 480-8DT



Model 480-8



Horsepower

42 PTO hp*

*Manufacturer's estimate.

Operating Weights

480-8: with 7.50-16 and 13.6-28 tires: 3,942 lbs.
480-8DT: with 8.3/8-24 and 14.9-28 tires: 4,625 lbs.
With hydraulic lift with 3-point linkage (Cat. I-II),
heavy-duty fenders and R.O.P.S.

Speeds (mph)

With tires		13.6-28	
Engine (rpm)		2,160	2,600
PTO (rpm)		540	650
Forward			
creep*	1st	0.39	0.47
	2nd	0.58	0.71
	3rd	0.86	1.04
	4th	1.11	1.34
low	1st	1.21	1.46
	2nd	1.82	2.19
	3rd	2.67	3.21
	4th	3.44	4.15
high	1st	4.36	5.24
	2nd	6.55	7.89
	3rd	9.60	11.56
	4th	12.39	14.93
Reverse			
normal	1st creep*	0.56	0.68
	1st	1.74	2.09
	2nd	6.26	7.54

*optional

Engine

Fiat 8035, 4-stroke direct injection diesel.

Number of cylinders: 3

Bore and stroke: 3.74 x 4.33 in.

Piston displacement: 142 cu. in.

Compression ratio: 17:1

Rpm at max. power: 2,600

Rpm at max. torque: 1,600

Dry-type cylinder liners.

Cooling system: water.

3-row copper tube and fin radiator.

Four-bearing crankshaft.

Force-feed lubrication system.

Distributor-type injection pump.

12 Volt starting system; with battery.

Cold starting aid.

400 Watt alternator.

Start safety device mounted on gearbox.

Filters:

— air: oil-bath, with centrifugal type precleaner and automatic dust unloader.

— fuel: 2 replaceable cartridges.

— oil: 1 replaceable, full-flow cartridge.

Horizontal exhaust.

Fuel tank capacity: 14.3 U.S. Gal.

Clutch

Dual plate, dry-type with separate controls: pedal for transmission, hand lever for PTO.

Diameter: 11"

Transmission

Gearbox with constant-mesh gears:

8F + 2R speeds.

Synchromesh on 3rd, 4th, 7th and 8th speeds.

Differential lock.

Front wheel drive engaged manually (480-8DT)

Brakes

Service: band-type.

Parking brake.

Turning brakes.

Front Axle

480-8: Tubular, variable tread width.

480-8DT: Power-driven, centrally mounted differential and planetary final drives in hubs.

Drive shaft with U-joints, with guard.

**The
PRIME LINE**

Hesston Corporation flyer

Treads

480-8 Front (7 positions): 50 1/4", 54 1/4", 58 1/4", 62 1/4", 66 1/8", 70", 74"

Rear (7 positions): 51 1/4", 55 1/8", 59", 63", 67", 70 3/4", 74 3/4"

480-8DT Front (2 positions): 55 1/4" & 59 1/4"

Rear (7 positions): 51 1/4", 55 1/8", 59", 63", 67", 70 3/4", 74 3/4"

Steering

Power assist, recirculating ball-type. Joints permanently lubricated.

Min. turning radius:

w/brakes: 480-8/122";

480-8DT/130"

w/o brakes: 480-8/133 3/4";

480-8DT/169 1/4"

Power Take-Off

1 3/8", 6 tooth shaft (standard A.S.A.E.).

Fully independent.

540 rpm at 2,160 engine rpm.

Hydraulic Lift

Draft and position control.

Draft control through top link.

Gear-type pump driven from engine crankshaft.

Pump capacity (at 2,600 engine rpm): 6.23 U.S. Gal./min.

Relief valve opening pressure:

2,133 psi.

Response control.

Control lever with safety stop.

3-point linkage Cat. I-II with sway chains and lower link retaining spring.

Auxiliary double-acting remote valve with quick couplers. Independent swinging drawbar.

Tires

480-8 Front: 7.50-16

Rear: 13.6-28

480-8DT Front: 8.3/8-24

Rear: 14.9-28

Body

Hood with side-hinged cover for engine inspection.

Front grill easily removable for quick access to air cleaner and battery.

Driver's Seat

Deluxe, with parallelogram suspension, hydraulic shock absorber, adjustable to driver's weight, height and fore/aft adjustment.

Fenders

Square shaped, heavy-duty for installation of R.O.P.S.

Lighting System

Two headlights, one working light and flashing warning lights.

Safety Frame - R.O.P.S.

Canopy optional.

Options and/or Extras

Transmission

Creeper speed reduction unit; for total of 12F + 3R speeds.

Tires

480-8 Rear: 14.9-28

Weights

Front: 220 lb. (121 lb. on DT) weight carrier with 4 or 6 weights of 66 lbs. each.

Rear wheels: 2, 4 or 6 weights of 128 lbs. each.



Hesston, Kansas 67062

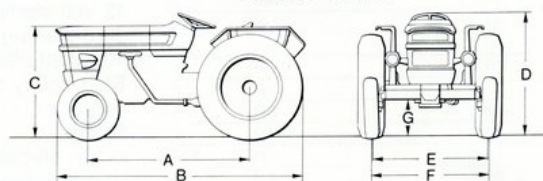
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Dimensions (Approximate; dimensions vary according to the brand, type and ply rating of tires used.)

	480-8	480-8DT
A - Wheelbase	75 1/2"	77"
B - Overall length	114 1/2"	119 1/4"
C - Height to top of hood	52 1/2"	55 1/8"
D - Height to steering wheel	58 1/4"	60 1/4"
E - Front tread	7 positions: 50 1/4" to 74"	2 positions: 55 1/4" & 59 1/4"
F - Rear tread	7 positions: 51 1/4" to 74 3/4"	7 positions: 51 1/4" to 74 3/4"
G - Ground clearance under front axle	18"	15 1/8"
H - Ground clearance under front differential	NA	13"
- Height to top of R.O.P.S.	87 1/2"	87 1/2"

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Model 480-8



Model 480-8DT

