

Hesston Corporation flyer

This Prime Line flyer from the Hesston Corporation, farm equipment division, is a representation of the 640, 640DT Fiat 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

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HESSTON 640 640 DT

FIAT

Model 640



Model 640DT



Horsepower

62 PTO hp*

*Manufacturer's estimate.

Operating Weights

640: with 7.50-16 and 14.9-30 tires: 4,680 lbs.
640DT: with 9.5/9-24 and 16.9-30 tires: 5,278 lbs.
With hydraulic lift with 3-point linkage (Cat. I-II)
and R.O.P.S.

Speeds (mph)

With tires 14.9-30		
Engine (rpm)	1,967	2,400
PTO (rpm)	540	659
Forward		
1st	0.35	0.47
2nd	0.59	0.70
3rd	0.83	1.01
4th	1.06	1.36
Reverse		
1st	1.18	1.47
2nd	1.77	2.19
3rd	2.60	3.19
4th	3.37	4.14
5th	4.25	5.20
6th	6.44	7.86
7th	9.46	11.53
8th	12.18	14.77
Reverse		
1st	0.53	0.65
2nd	1.71	2.06
3rd	6.15	7.51

*optional

Engine

Fiat 8045, 4-stroke direct injection diesel.
Number of cylinders: 4
Bore and stroke: 3.94 x 4.33 in.
Piston displacement: 211 cu. in.
Compression ratio: 17:1
Rpm at max. power: 2,400
Rpm at max. torque: 1,600
Dry-type cylinder liners.
Cooling system: water.
Four-row, steel tube and fin radiator.
Force-feed lubrication system.
Distributor-type injection pump.
Flyweight-type dynamic balancer.
Five-bearing crankshaft.
12 Volt starting system; with battery.
400 Watt alternator.
Filters:
— air: oil-bath, with precleaner and automatic dust unloader.
— fuel: 2 replaceable cartridges.
— oil: easy-to-change, full-flow cartridge.
Horizontal exhaust.
Gearbox-mounted starter safety switch.
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"
Plate facing of organic compound.

Transmission

Gearbox with constant-mesh gears: 8F + 2R speeds.
Synchronesh on 3rd, 4th, 7th and 8th speeds.
Spur gear final drives.
Differential lock.
Front wheel drive engaged manually (640DT)

Brakes

Service: dry, mechanical band-type.
Parking brake.
Turning brakes.

Front Axle

640: Telescopic-type, inverted "U" section, variable tread width.
640DT: Power-driven, centrally located differential and planetary final drives in hubs.

The
PRIME LINE

Hesston Corporation flyer

Treads

640 Front (8 positions): 52", 56", 59 $\frac{3}{4}$ ", 63 $\frac{3}{4}$ ", 67 $\frac{3}{4}$ ", 71 $\frac{3}{4}$ ", 75 $\frac{1}{2}$ ", 79 $\frac{1}{2}$ "

Rear (8 positions): 52", 56", 59 $\frac{3}{4}$ ", 63 $\frac{3}{4}$ ", 67 $\frac{3}{4}$ ", 71 $\frac{3}{4}$ ", 75 $\frac{1}{2}$ ", 79 $\frac{1}{2}$ "

640DT Front (2 positions): 55 $\frac{1}{8}$ " & 59"

Rear (8 positions): 52", 56", 59 $\frac{3}{4}$ ", 63 $\frac{3}{4}$ ", 67 $\frac{3}{4}$ ", 71 $\frac{3}{4}$ ", 75 $\frac{1}{2}$ ", 79 $\frac{1}{2}$ "

Steering

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

Min. turning radius:

w/brakes: 640/134"; 640DT/146"

w/o brakes: 640/146"; 640DT/209"

Driver's Seat

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

Power Take-Off

1 $\frac{3}{8}$ ", 6 tooth shaft (standard A.S.A.E.).

Fully independent.

540 rpm at 1,967 engine rpm.

Hydraulic Lift

Draft and position control.

Draft control through top link.

Gear-type pump driven from engine crankshaft.

Pump capacity (at 2,400 engine rpm): 6.55 U.S. Gal./min.

Relief valve opening pressure: 2,702 psi.

Manual response control.

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

640 Front: 7.50-16

Rear: 14.9-30

640DT Front: 9.5/9-24

Rear: 16.9-30

Body

Hood with side-hinged cover for engine inspection.

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

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

640 Rear: 16.9-30

Weights

Front: 154 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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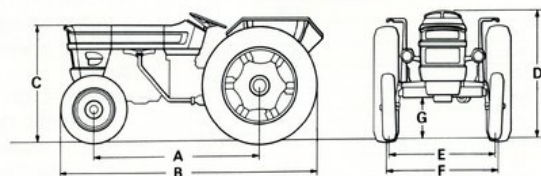
640/640DT Specs-5/80

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

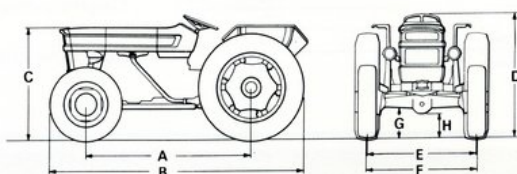
	640	640DT
A - Wheelbase	81 $\frac{1}{2}$ "	83"
B - Overall length	126"	132"
C - Height to top of hood	56 $\frac{1}{4}$ "	57 $\frac{3}{4}$ "
D - Height to steering wheel	62 $\frac{1}{4}$ "	61"
E - Front tread	8 positions: 52" to 79 $\frac{1}{2}$ "	2 positions: 55 $\frac{1}{8}$ " & 59"
F - Rear tread	8 positions: 52" to 79 $\frac{1}{2}$ "	8 positions: 52" to 79 $\frac{1}{2}$ "
G - Ground clearance under front axle	20 $\frac{1}{2}$ "	17 $\frac{1}{4}$ "
H - Ground clearance under front differential	NA	14 $\frac{1}{2}$ "
- Height to top of R.O.P.S.	91 $\frac{3}{4}$ "	91 $\frac{3}{4}$ "

Information contained herein is general in nature and is not intended for specific application purposes. Hesston reserves the right to make changes in specifications shown herein or add improvements at any time without notice or obligation.

Model 640



Model 640DT





Model 640DT, 4WD, 62 hp*

*Manufacturer's estimated PTO hp.