

41-B

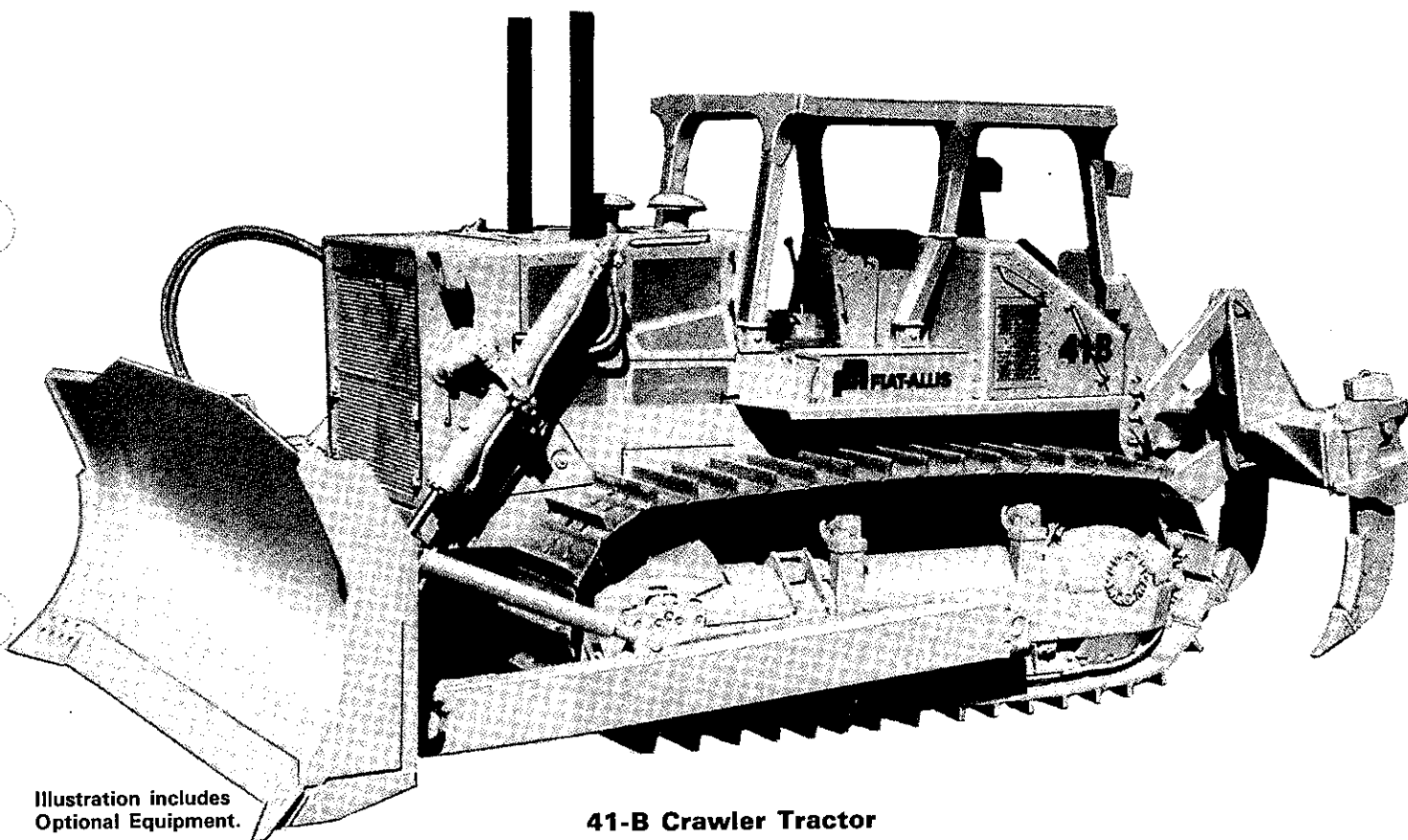


Illustration includes
Optional Equipment.

41-B Crawler Tractor

POWER SHIFT ... 524 Flywheel H.P.

WEIGHT

- Largest crawler tractor in the world with an operating weight up to 160,000 lbs.

POWER

- Unit has complete acceptability in mining, construction and all other applications requiring a big dozer with over 500 HP.

SAFETY & COMFORT

- Designed with operator safety and convenience in mind: Automatic braking system . . . human engineered operator's compartment . . . ROPS canopies and cabs.

PROFITABILITY

- **Dozing ability** — three moldboards to meet any high volume application . . . Semi "U", Full "U", and Cushion.
- **Pushing ability** — Power to push-load the largest scrapers . . . shaves seconds from load time . . . adds yards to production . . . many times eliminates the second crawler.
- **Ripping ability** — Capabilities of ripping material with seismic reading well over 10,000 ft. per second and penetration up to 84"

41-B SPECIFICATIONS



ENGINE

FLYWHEEL HORSEPOWER*	524
Make and Model	Cummins VT1710C
Type	Diesel, 4-Cycle, Turbocharged, Direct Injection
Governed RPM	2100
Number of Cylinders	12
Bore and Stroke	5.5" x 6" (140x150 mm)
Displacement	1710 cu. in. (28.0 lit)
Lubrication	Full Pressure
Fuel	No. 2 Diesel

*Net flywheel horsepower available at the flywheel of the vehicle engine under SAE J816a standard conditions of 85° F. (29° C) and 29.38" (746 mm) hg. after deductions have been made for Fan, Alternator, Lube Oil Pump, Water Pump, Air Cleaner, and Fuel Pump. This vehicle may be operated up to 12,000 ft. (3653 m) altitude without derating the engine.



ELECTRICAL SYSTEM

Voltage	24V
Standard alternator	50 amp
Battery amp/hour rating	200



INPUT CLUTCH

Operation	Fully Automatic
Type	Multiple Disc
Lubrication	Full Pressure
Total Friction Area	304.5 sq. in. (1964.5 cm ²)



TORQUE CONVERTER

Type	Single Stage, Rotating Housing
Torque multiplication	2.97 to 1



TRANSMISSION

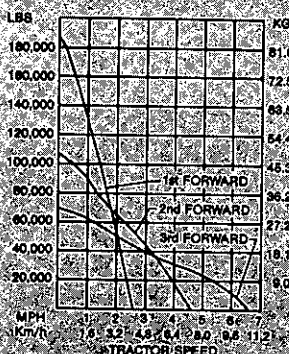
Type	Full Power Shift, Countershaft, Constant Mesh
Actuation	Single Lever
Clutches	Multi-disc, Hydraulic
Lubrication	Full Pressure

SPEEDS

Fwd	MPH	Km/h
1st	0-2.6	(0- 4.2)
2nd	0-4.5	(0- 7.2)
3rd	0-6.5	(0-10.5)

Rev	MPH	Km/h
1st	0-3.0	(0- 4.8)
2nd	0-5.0	(0- 8.0)
3rd	0-7.4	(0-11.9)

DRAWBAR PULLS



FINAL DRIVES

Type	Planetary
Ratio	15.5-1
Lubrication	Splash



TRACK

Non-sealed track. Hydraulic track adjusters with interlocking guards. Sprockets with bolt on rim segments. Outer sprocket guards. Disc idlers. Track guiding guards. Track rollers, carrier rollers and idlers are permanently lubricated and sealed.

Track Frame	Oscillating
Track Rollers (each side)	7
Double Flange	4
Single Flange	3
Number of Shoes (each side)	39
Width of Standard Track Shoe	32" (815 mm)
Length of Track on Ground	11'11 1/2" (3650 mm)
Ground Contact Area	9184 sq. in. (59260 cm ²)
Gauge	100" (2540 mm)
Ground Clearance	23" (584 mm)



HYDRAULIC SYSTEM

Reservoir	Closed
Cylinders	Double Acting
Dozer (Two)	6.5" x 54" (165 mm x 1370 mm)
Tilt (Right Side)	9" x 7" (228 mm x 177 mm)
Pump	
Capacity @ Governed RPM	
Large Section	95 GPM (360 lit/min)
Small Section	45 GPM (170.1 lit/min)
Control Valve	Three Spool
Relief Valve Pressure	2300 psi (161 kg/cm ²)
Actuation	Single Lever
Dozer	Raise, Hold, Lower, Float
Tilt	Left and Right



FILTRATION SYSTEMS

ENGINE	
Lube Oil	2 Full Flow 25 Micron and 2 By-pass 5 Micron
Fuel	2 Full Flow 5 Micron
Air Cleaner	Dry Type w/ safety Element and Automatic Dust Evacuator
Coolant	Water Filter and Conditioner
TRANSMISSION - TORQUE CONVERTER	
INPUT CLUTCH	2 Full Flow 10 Micron Full Flow Suction Screen
STEERING AND BRAKING	2 Full Flow 10 Micron w/screen and Magnet
HYDRAULIC	2 Full Flow 10 Micron w/screen and Magnet



STEERING AND BRAKING

Hydraulically actuated clutches and brakes with modulated control provide maximum maneuverability with minimum effort. Clutches and brakes are oil cooled and lubricated for long troublefree hours of operation.

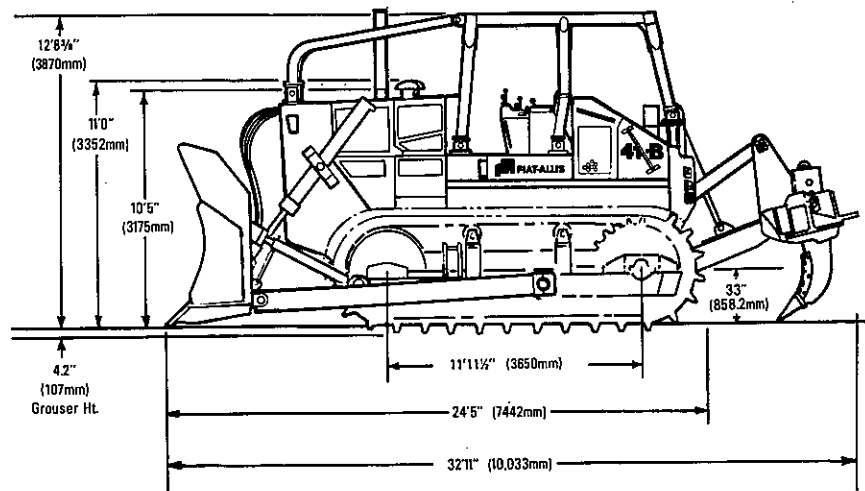
Friction Surfaces - Each Clutch Assembly	34
Total Friction Area - Each Clutch Assembly	3,608.4 sq. in. (23280 cm ²)
Total Friction Area - Each Brake Assembly	466.76 sq. in. (3011.5 cm ²)



CAPACITIES

ENGINE CAPACITIES	
Lube Oil	31 U.S. gal (115 lit)
Coolant	38 U.S. gal (145 lit)
Fuel Tank	300 U.S. gal (1135 lit)
TRANSMISSION - TORQUE CONVERTER	
INPUT CLUTCH	26 U.S. gal (100 lit)
STEERING AND BRAKING	73 U.S. gal (276.3 lit)
FINAL DRIVES (each side)	14 U.S. gal (53 lit)
HYDRAULIC SYSTEM	58 U.S. gal (220 lit)
HYDRAULIC SYSTEM w/ripper	71 U.S. gal (268.76 lit)

DIMENSIONS



DOZER

DOZER TYPE	Semi-"U"	Full "U"	Cushion
DOZER MODEL	41HS	41HU	41HC
MOLDBOARD			
Width	17' (5180 mm)	20' (6100 mm)	11'4" (3450 mm)
Height	7'1" (2160 mm)	7'2" (2180 mm)	4'9" (1450 mm)
Max. Lift Above Ground	5'1" (1550 mm)	5'1" (1550 mm)	3'4" (1020 mm)
Max. Drop Below Ground	2' (610 mm)	2' (610 mm)	4'4" (1320 mm)
Max. Tilt — Either End	22" (560 mm)	26" (660 mm)	—
Max. Pitch Adjustment	10°	10°	—
CUTTING EDGES			
Center Section — Reversible	Yes	Yes	Yes
Width	12" (305 mm)	12" (305 mm)	12" (305 mm)
Thickness	1 1/4" (31,8 mm)	1 1/4" (31,8 mm)	1 1/4" (31,8 mm)
END OR CORNER BITS			
Width	14" (355 mm)	14" (355 mm)	12" (305 mm)
Thickness	1 3/4" (44,5 mm)	1 3/4" (44,5 mm)	1 1/4" (31,8 mm)
Interchangeable	No	No	No
Replaceable	Yes	Yes	Yes



WEIGHTS

& DIMENSIONS

41-B SHIPPING WEIGHTS

w/Standard equipment 112,220 lbs. (50903 kg)

w/o Canopy and seat belt 108,660 lbs. (49288 kg)

Bare unit width 133" (3378 mm) with Std. shoe

Units	Overall Length	Operating Weights (w/Canopy)	Max Track Shoe Allowance
HSU w/drawbar	24' 5" (7442 mm)	131675 lbs. (59727 kg)	36" (914 mm)
HSU w/std cwt	25'10" (7874 mm)	142495 lbs. (64635 kg)	
HSU w/41-R	32'11" (10007.6 mm)	152250 lbs. (69060 kg)	
HSU w/Kelley	35' (10668 mm)	151075 lbs. (68527 kg)	
HC w/drawbar	24' 7" (7493 mm)	123130 lbs. (55851 kg)	36" (914 mm)
HC w/std cwt	26' (7924.8 mm)	133950 lbs. (60759 kg)	
HC w/41-R	33' 1" (10007.6 mm)	143705 lbs. (65184 kg)	
HC w/Kelley	35' 2" (10718.8 mm)	141530 lbs. (64198 kg)	
HU w/std. cwt.	28' 7" (8712.2 mm)	151245 lbs. (68604 kg)	36" (914 mm)
HU w/41-R	34'10" (10617.2 mm)	156000 lbs. (70761 kg)	
HU w/Kelley	37' (11277.6 mm)	153710 lbs. (69722 kg)	

NOTE: 41-R w/3 Shanks

ROPS Cab 990 lbs. (449 kg)



RIPPER

Overall Width 9'9" (2970 mm)
Ripping Width 9' (2740 mm)
Weight (Basic Ripper) 17,800 lb. (8150 kg)

BEAM (Welded Box Section)

Length 9' (2740 mm)
Section 17" x 17" (430 x 430 mm)

SHANKS (none standard, 1, 2, or 3 Optional)

Type Straight and Adjustable
Positions 3

Spacing Center to Center 54" (1572 mm)

Max. Depth of Penetration 42" (1070 mm)

Length 6'9" (2060 mm)

Section 3½" x 15½" (89 x 395 mm)

Weight, Ea. Shank
(W/shank guard, 1 tooth) ... 1,200 lb. (545 kg)

TEETH

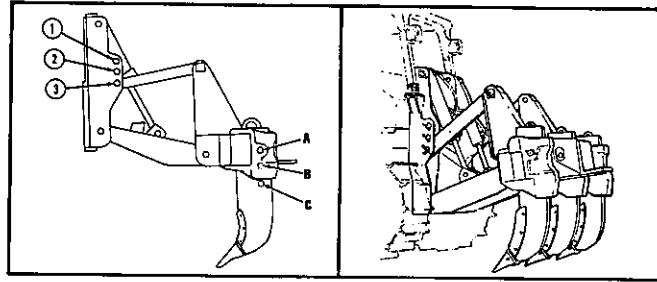
Type One-Piece, Forged Self-Sharpening

Length 15" (380 mm)

Weight, each 45 lb. (20,4 kg)

CONTROL

Hydraulic Two Double Acting Cylinders
7" Bore x 34" Stroke (180 x 865 mm)



Shank Position	Max. Penetration Inches (MM)	Ground Clearance Under Tip, Raised			Overall Length Dozer & Ripper Raised		
		Strut Positions			Strut Positions		
		1	2	3	1	2	3
A	42" (1066 mm)	16" (406 mm)	18.3" (465 mm)	25.8" (655 mm)	367" (9322 mm)	366.8" (9317 mm)	368.4" (9357 mm)
B	36" (914 mm)	22" (558 mm)	24.3" (617 mm)	31.2" (792 mm)	367" (9322 mm)	366.8" (9317 mm)	365.4" (9281 mm)
C	30" (762 mm)	28" (711 mm)	30.2" (767 mm)	36.3" (922 mm)	367" (9322 mm)	366.8" (9317 mm)	362.4" (9205 mm)



STANDARD EQUIPMENT

AIR CLEANERS

Dry w/Service Indicator
Safety Element and Auto
Dust Ejector

ALTERNATOR — 50A

ANTI-FREEZE

BACK-UP ALARM

CLUTCH, ENGINE INPUT
Oil Cooled

DECELERATOR

FANS

Front, Blower Rear; Suc-
tion

GAUGES

Engine Oil Pressure
Torque Converter
Temperature
Transmission

Clutch Pressure
Water Temperature
Voltmeter
Hourmeter

GUARDS

Radiator Wrap Around
Crankcase, Severe
Service, Hinges
Idle Seal
Transmission, Severe
Service, Hinged
Track Roller
Full, Sectional
Hood Side Plates
HORN

HYDRAULICS

Tank and 3 Spool Valve
Pump and Piping
Dozer Cyls. and Piping
Tilt Control and Piping

LIGHTS

Two Front and Two Rear

MUFFLER

PARKING BRAKE
Automatic

PULL HOOK

Front

ROPS CANOPY

SEAT BELT

SPROCKETS

Segmented

STARTING

24 V.
Direct Electric

STEERING CLUTCHES

AND BRAKES

Hydraulic Powered

TEST PANEL

Systems Pressures

TOOL BOX

TORQUE CONVERTER

TRACK

Unsealed

TRACK ADJUSTERS

Hydraulic

TRACK ROLLERS

7 each side

4 Double Flange

3 Single Flange

TRACK SHOES

32" Full Grousers

TRANSMISSION,

POWER SHIFT

3-Speed Forward

3-Speed Reverse

WATER COOLANT/

CONDITIONERS



OPTIONAL EQUIPMENT

COUNTERWEIGHTS

DRAWBAR

FUEL TANK ADAPTER

Quick Fueling

GRILLE

Horizontal

OPTIONAL RIPPER EQUIPMENT

Selection of teeth

OPTIONAL DOZER EQUIPMENT

Pusher Plates

RADIATOR SAND GRID

ROPS CAB

TRACK SHOES

28" Full Grouser — S.S.

36" Full Grouser — S.S.

VANDALISM PROTECTION



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