



COMPETITIVE DATA

NO: WABCO-440H
DATE: MARCH 1970

THIS MATERIAL IS REPRODUCED FOR THE SOLE PURPOSE OF ENABLING PROSPECTIVE PURCHASERS TO MAKE COMPARISONS BETWEEN GALION'S PRODUCTS AND THOSE OF COMPETITIVE MANUFACTURER. THE GALION IRON WORKS & MFG. COMPANY MAKES NO REPRESENTATION AS TO THE ACCURACY OR CURRENT STATUS OF THIS MATERIAL.

REPRODUCED FROM: D-d-MG387
FILE IN SECTION: H
(Replaces dated)

THE GALION IRON WORKS & MFG. CO.

GALION OHIO



440-H

motor grader



- reduce road-building costs
- cut ditches faster
- work oil-mix easier
- slope banks more quickly
- scarify more efficiently
- clean more miles of shoulder
- spread base more accurately
- plow snow faster
- line-grade more accurately
- maintain haul roads better

440-H MOTOR GRADER SPECIFICATIONS

Subject to change without notice or obligation.

WEIGHTS,

(approximate) with Standard Equipment, no accessories	With GM Engine	With Cummins Engine
Total.....	24,400 lbs. (11,068 kg)	25,500 lbs. (11,567 kg)
On Front Wheels....	7,000 lbs. (3,175 kg)	7,000 lbs. (3,175 kg)
On Rear Wheels.....	17,400 lbs. (7,893 kg)	18,500 lbs. (8,392 kg)

ENGINE, Diesel rubber mounted.

	GM 4-71 HT	Cummins H-743-C
Horsepower, Maximum.....	145	135
Net.....	125	128
RPM.....	1975	1800
Number of Cylinders.....	4	6
Bore.....	4 1/4" (108 mm)	5 1/8" (130 mm)
Stroke.....	5" (127 mm)	6" (152 mm)
Displacement, cubic inches.....	283.7 (4,65 liters)	743 (12,17 liters)
Electric starting equipment standard.....	12 volt	24 volt

CLUTCH, Standard Dry Type
Optional Oil Type

TRANSMISSION Constant-Mesh

SPEEDS in MPH and [Kilometers per Hour]

First.....	2.3 (3,7)	Seventh.....	17.3 (27,9)
Second.....	3.3 (5,3)	Eighth (travel).....	25.1 (40,4)
Third.....	4.8 (7,7)	Reverse, First.....	1.9 (3,1)
Fourth.....	6.9 (11,1)	Second.....	3.9 (6,3)
Fifth.....	10.6 (17,1)	Third.....	8.7 (14,0)
Sixth.....	14.1 (22,7)	Fourth.....	14.2 (22,9)

OVERALL DIMENSIONS

Length.....	26' 0" (7,93 m)
Width.....	7' 8" (2,34 m)
Height, with cab.....	10' 6" (3,20 m)
Height, without cab.....	7' 8" (2,34 m)
Wheelbase.....	18' 11" (5,77 m)
Bladebase.....	8' 5" (2,57 m)
Tread, Front.....	76" (1,93 m)
Tread, Rear.....	78" (1,98 m)
Distance between centers of tandem wheels.....	61 3/4" (1,57 m)
Turning Radius, measured to outside front wheel.....	40' (12,19 m)

OPERATOR'S PLATFORM

Size.....	54" x 44" (1,37 m x 1,12 m)
Height, above ground.....	50" (1,27 m)

SERVICE CAPACITIES	Gallons (U.S. Standard)	Liters	Gallons (U.S. Standard)	Liters
Fuel Tank.....	60	(227)	60	(227)
Cooling System.....	15	(57)	20	(76)
Crankcase (without filter).....	3.5	(13,5)	5	(19)
Transmission.....	18	(68)	18	(68)

FRAME, All-welded Continuous Box-type Construction

Basic structural members, channels,
Average weight of complete frame structure per ft.166 lbs.
(248 kg/m)

DRAWBAR, All-welded Box Section 6" x 6 3/4" x 7/8"
(15,24 cm x 17,15 cm x 2,22 cm)
Connections Ball and Socket

CONTROLS, Power-Operated Mechanical

CIRCLE

Diameter.....	63" (1,6 m)
Section Steel Angle.....	6" x 4" x 7/8" (15,24 cm x 10,16 cm x 2,22 cm)
Circle Reverse (power operated).....	360°

BLADE ASSEMBLY

Length and Width (measured around curve).....	12' x 25" (3,66 m x 63,4 cm)
Material, moldboard, H.C. steel.....	7/8" (2,22 cm)

BLADE WORKING RANGE

Lift for ground clearance.....	18 1/2" (47,0 cm)
Side-Shift with control, moldboard centered.....	36" (91,44 cm)-R; 40" (101,6 cm)-L
Pitch Positions, number.....	11
Bank Cutting Angle, maximum degrees.....	90°
Shoulder Reach, outside tires.....	86 1/2" (2,2 m)-R; 93 1/2" (2,37 m)-L

LIFTING MECHANISM

Type, power-operated.....	Worm and Gear
Lifting Speed, inches per second.....	2.7 (6,9 cm)
Lift Shafts Dia.....	3" (7,6 cm)
Lift Shaft Bearings.....	Bronze Bushings
Lift Arms.....	Forgings
Lift Arm Connection to Shaft.....	Splined
Lift Links (telescoping) O.D. & I.D.....	25/8" x 17/8" (6,67 cm x 4,76 cm)
Lift Link Connections, Enclosed.....	Ball and Socket
Lift Link Adj. for Wear.....	Shims

AXLE, FRONT

Welded Arch Truss Const. size bars.....	6" x 1" (15,24 cm x 2,54 cm)
Spindles, diameter at bearings.....	2 1/2" - 17/8" (6,35 cm - 4,76 cm)
Spindles, Material.....	Forged, Heat-treated Alloy Steel
Ground Clearance, center.....	23 1/2" (59,7 cm)
Steering, Standard.....	Power Booster

AXLE, REAR, Full-floating

Construction.....	Two-Piece, Rigid
Axle Material.....	Alloy Steel, Heat-Treated
Axle Diameter, at bearings.....	3 1/2" (8,89 cm) (Axle drives only; carries no weight)
Axle Bearings.....	Heavy Duty Ball
Foot Brake on Two Wheels.....	Hydraulic
Hand Brake on Transmission.....	Mechanical

TANDEM DRIVE

Housings.....	21" x 7 3/4" (53,34 cm x 19,68 cm)
Wheel Axles, diameter at bearings.....	3 1/2" - 2 3/4" (8,89 cm - 6,99 cm)

TIRES

Front, Standard, lug tread.....	13.00-24
Rear, Standard, lug tread.....	13.00-24

SCARIFIER

Weight, approximate.....	1,450 lbs. (658 kg)
Teeth, Number [3" x 1" (7,6 cm x 2,54 cm), with replaceable points].....	11
Teeth, Spacing (center to center).....	4 1/2" (11,43 cm)
Width of Cut.....	46" (1,16 m)
Pitch Positions, number.....	5



Grader Manufacturing facilities at Indianapolis, Indiana; Paris, Ontario; Gembloux, Belgium and Johannesburg, Republic of South Africa.