



COMPETITIVE DATA

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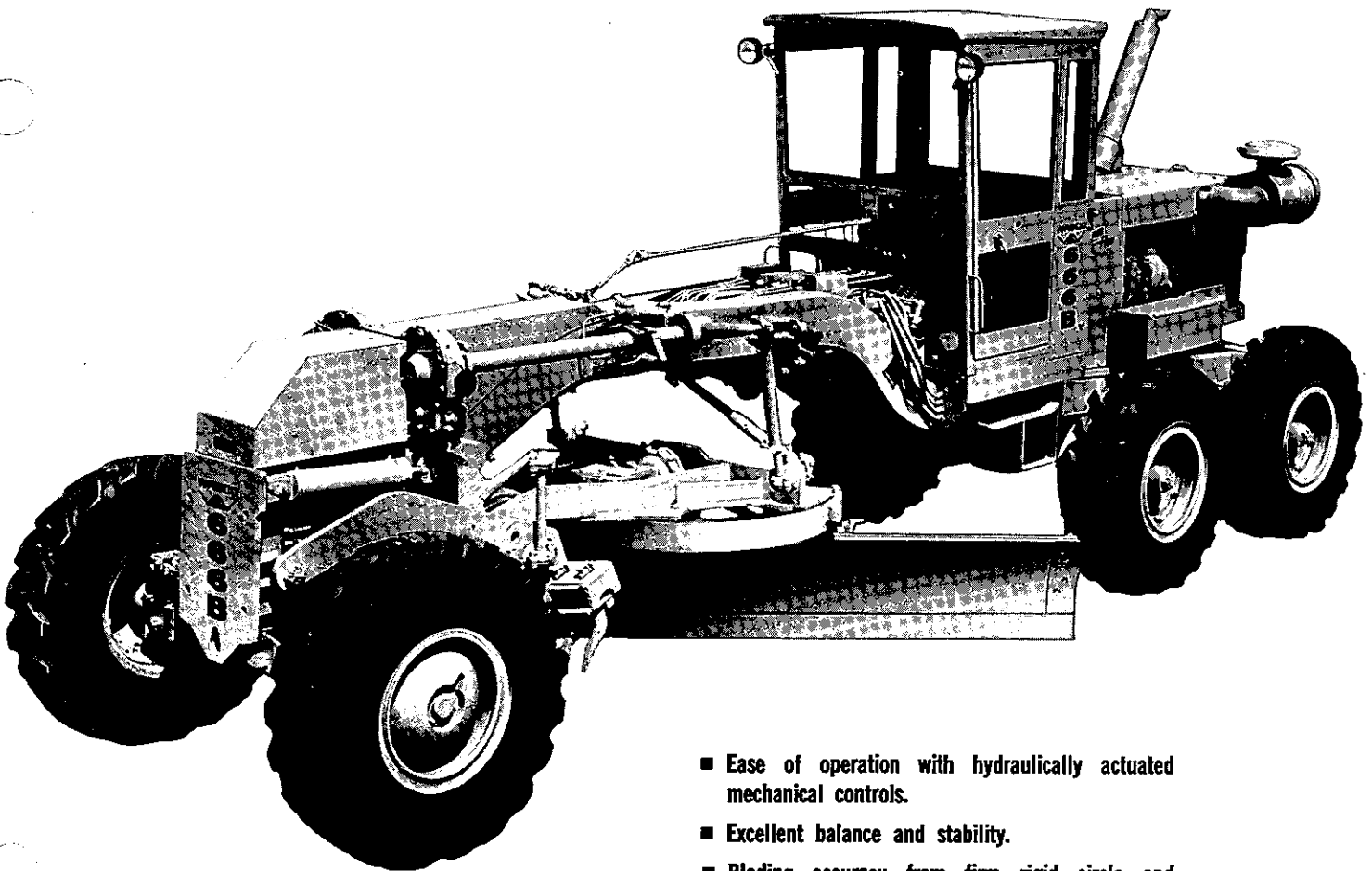
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THE GALION IRON WORKS & MFG. COMPANY division of Jeffrey Galion Inc. Gallion, Ohio 44833, U.S.A.



MODEL 666B MOTOR GRADER

STANDARD AND POWERFLOW®



- Ease of operation with hydraulically actuated mechanical controls.
- Excellent balance and stability.
- Blading accuracy from firm rigid circle and drawbar.
- Rugged front end with high ground clearance.
- Job matching power and transmission options.

WABCO CONSTRUCTION EQUIPMENT DIVISION

SPECIFICATIONS

666B STANDARD

666B POWER-Flow

	with GM engine	with Cummins engine	with GM engine
WEIGHTS (approximate) w/std. equipment, no accessories, Total	27,100 lbs (12,293 kg)	28,100 lbs (12,746 kg)	27,400 lbs (12,429 kg)
On Front Wheels	8,600 lbs (3,901 kg)	8,600 lbs (3,901 kg)	8,600 lbs (3,901 kg)
On Rear Wheels	18,500 lbs (8,392 kg)	19,500 lbs (8,845 kg)	18,800 lbs (8,528 kg)
ENGINE , Diesel rubber mounted	GM 4-71 HT	Cummins H-743-C	GM 4-71
Horsepower, Maximum	147	145	147
Net	125	135	134
RPM	1975	2000	2100
Number of Cylinders	4	6	4
Bore	4 1/4" (108 mm)	5 1/8" (130,1 mm)	4 1/4" (108 mm)
Stroke	5" (127 mm)	6" (152,4 mm)	5" (127 mm)
Displacement, cubic inches	283.7 (4,65 liters)	743 (12,17 liters)	283.7 (4,65 liters)
Electric starting equipment standard	12 volt	24 volt	12 volt
CLUTCH	Standard, Oil Type		
TRANSMISSION	Constant-Mesh		Transmission and Torque Converter
			Transmission Power shift clutch and constant mesh
			Transmission shift ... Shifts from forward to reverse without clutching
			Torque converter. 15" (38,1 cm), single stage
			Torque multiplication ratio 2.78:1
			Tail-shaft governor Standard. Adjusts engine automatically to maintain pre-selected grader speeds
SPEEDS IN MPH and (Kilometers per Hour)	Forward	Reverse	Forward
First	2.2 (3,5)	1.8 (2,9)	3.6 (5,8)
Second	3.2 (5,1)	3.6 (5,8)	7.0 (11,3)
Third	4.4 (7,1)	8.1 (13,0)	15.9 (25,6)
Fourth	6.3 (10,1)	13.2 (21,2)	25.3 (40,7)
Fifth	9.9 (15,9)	Creepers Gears (Opt.)	
Sixth	14.1 (22,7)	Creeper, First .28 (.45)	
Seventh	16.2 (26,1)	Second .55 (.88)	
Eighth (travel)	23.0 (37,0)	Third 1.27 (2,0)	
SERVICE CAPACITIES	Gallons Liters	Gallons Liters	Gallons Liters
Fuel Tank	(U.S. Std.) (235)	(U.S. Std.) (235)	(U.S. Std.) (235)
Cooling System	15 (57)	20 (76)	17 (64)
Crankcase, without filter	3.5 (13)	5 (19)	3.5 (13)
Transmission	17.25 (68)	17.25 (68)	
Torque converter, upper transmission, lower transmission and final drive			20 (76)

GENERAL

OVERALL MEASUREMENTS

Length	27'0" (8,23 m)
Width	7'8" (2,33 m)
Height, with cab	10'6" (3,20 m)
Height, without cab (top of steering wheel)	7'8" (2,33 m)
Wheelbase	19'11" (6,07 m)
Bladebase	9'1 3/4" (2,79 m)
Tread, Front	7'7" (1,96 m)
Tread, Rear	7'9 1/2" (2,01 m)
Distance between centers of tandem wheels	6'1 3/4" (1,57 m)
Turning Radius, measured to outside front wheel	40' (12,19 m)

OPERATOR'S PLATFORM

Size	53 1/4" x 25 5/8" (1,35 m x 0,65 m)
Height, above ground	50" (1,27 m)

FRAME

All-welded Continuous Box-type Construction	
Basic structural members, channels,	
Average weight of complete frame structure per ft.	220 lbs (304 kg/m)

DRAWBAR

All-welded Double Bar	6" x 1 1/2" (15,24 cm x 3,81 cm)
Connections	Ball and Socket

CONTROLS

Power-Operated	Hydraulic over Mechanical
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CIRCLE

Diameter	63" (1,6 m)
"F" Section Steel Angle	4 1/4" - 5 1/4" x 6" x 1" (10,80 cm - 13,81 cm x 15,24 cm x 2,54 cm)
Circle Reverse (power operated)	360°

BLADE ASSEMBLY

Length and Width	
(measured around curve)	12' x 25" (3,66 m x 63,5 cm)
Material, moldboard, H.C. Steel	7/8" (2,22 cm)

BLADE WORKING RANGE

Lift for ground clearance	18" (45,72 cm)
Side-Shift with control, moldboard centered	37 1/2" (95,2 cm) R and L
Pitch Positions, number	11

Bank Cutting Angle, maximum degrees	90°
Shoulder Reach, outside tires	90" (228,60 cm) R and L

LIFTING MECHANISM

Type, power-operated	Worm and Gear
Lifting Speed, inches per second	3.0 (7,6 cm)
Lift Shafts Diameter	3 1/4" (8,26 cm)
Lift Shaft Bearings	Bronze Bushings
Lift Arms	Forgings
Lift Arm Connection to Shaft	Splined
Lift Links (telescoping) O.D. & I.D.	2 5/8" x 1 7/8" (6,67 cm x 4,76 cm)
Lift Link Connections Enclosed	Ball and Socket
Lift Link Adjustment 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" - 1 7/8" (6,35 cm - 4,76 cm)
Spindles, Material	Forged, Heat-treated Alloy Steel
Ground Clearance, center	23" (58,4 cm)

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 Four Wheels and Transmission	Hydraulic
Hand Brake on Transmission	Mechanical

TANDEM DRIVE

Housings	21" x 7 3/4" (53,34 cm x 19,69 cm)
Wheel Axles, diameter at bearings	3 1/2" - 2 3/4" (8,89 cm - 6,99 cm)

TIRES, Tubeless

Front	13.00-24, 12 pr, traction (G-2)
Rear	13.00-24, 12 pr, traction (G-2)

SCARIFIER

Weight, approx. (lbs.)	1,530 (694 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" (1,17 m)
Pitch Positions, number	3



An American-Standard Company
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Specifications subject to change without notice

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