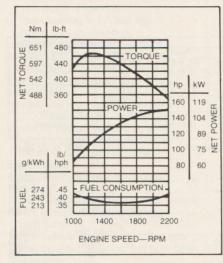


772A MOTOR GRADER



ENGINE PERFORMANCE



FEATURES

150 SAE net hp (112 kW)

12-ft. (3.65 m) moldboard with 0.62 x 6 in. (16 x 152 mm) through-hardened Dura-Max[®] cutting edge; 13- and 14-ft. (3.95 and 4.25 m) moldboards and 2-ft. (610 mm) extensions available

Power Shift transmission; 8 speeds forward, 4 reverse

Articulated frame steering

Differential lock-unlock

All-wheel drive, standard system to 6.7 mph (10.8 km/h), optional system to 11.5 mph (18.5 km/h), switch-controlled for two modes of operation

22-ft. 6 in. (6.86 m) turning radius

All-hydraulic control of blade and machine functions

Closed-center hydraulic system with operational no-leak, drift-free poppet valves

Pushbutton control

Hydraulically controlled, 7-position lift arms let you position blade for 90-degree bank cuts, left or right, in approximately one minute, without leaving the seat

Oscillating front axle and rear tandem

Hydraulic front-wheel lean

Rollover protective structure (ROPS) w/cab

Model shown may include options

ADD VERSATILITY WITH:

Scarifier

Rear-mounted ripper

Snow plow and wings

Bulldozer

Automatic blade control

772A MOTOR GRADER SPECIFICATIONS

(Specifications and design subject to change without notice. Wherever applicable, specifications are in accordance with SAE Standards. Except where otherwise noted, these specifications are based on a unit with 13.00-24, 12-PR, tubeless tires on 8 in. (254 mm) rims, 12-ft. (3.65 m) moldboard with 6-in. (152 mm) cutting edge, and standard equipment. Weights include lubricants, coolants, full fuel tank and 175 lb. (79 kg) operator.)

Rated Power @2300 rpm:	SAE	DIN 70 020
Net	150 hp (112 kW)	112 kW
Gross	160 hp (119 kW)	

Net engine power is with standard equipment including air cleaner, exhaust system, alter-nator, and cooling fan, at standard conditions per SAE J1349 and DIN 70 020, using No. 2-D fuel @35 API gravity. No derating is required up to 10,000 ft. (3050 m) altitude. Gross power is without cooling fan.

Engine: John Deere 6-466A

T	ype 4-stroke cycle, turbocharged and intercooled diesel
	ore and stroke
	lo. of cylinders
	bisplacement
Ň	faximum net torque @1300 rpm 465 lb-ft (630 Nm) (64 kg-m)
Ľ	ubrication Pressure system w/full-flow filter
C	cooling fan Suction type
	spirated air cleaner w/restriction indicator Dry
	lectrical system
B	atteries (two 12-volt) Reserve capacity: 360 minutes

. Direct drive, full power shift Transmission with planetary gear reductions. Foot inching pedal.

Travel Speeds (2200 engine rpm, no tire slip, 14.00-24 tires):

Shift Lever Position	Forward		Reverse	
	mph	km/h	mph	km/h
1	2.3	3.7	3.0	4.8
2	3.3	5.3	4.2	6.8
3	5.2	8.9	6.6	10.6
4	6.7	10.8	8.6	13.9
5	8.8	14.2		
6	11.5	18.5		
7	14.6	23.6		
8	25.1	40.4		

Differential Lock Foot-operated, hydraulically actuated

Rear Drive Inboard planetary final drives roller chain in oil bath.

Front Drive Standard and optional systems are available to match different applications. Both use a variable-displacement pump, a reversible motor in each wheel, and a flow divider to assure front wheel traction. System has two operational modes and free-wheels at transport speeds or when not in use.

Standard system — effective in gears 1-4 . . 5.03 in³ (89 cm³) pump, 2.03 in³ (33 cm³) motors High speed system — effective in gears 1-6 6.00 in³ (98 cm³) pump, 2.03 in³ (33 cm³) motors

Front Axle: Fabricated steel box frame with planetary drives	
Total oscillation	
Wheel lean (either direction) 20 deg	

Steering:

Front Full hydraulic power system. Steering capabilities without engine power	
Rear Hydraulically articulated frame steering	
(25 deg. left or right) Minimum turning radius	
Brakes:	
Service	
Parking Foot-operated, mechanical, dry-disk, effective on 4 tandem wheels	
Hydraulic System:	
Closed center w/pressure controlled 4.0 cu. in. (65 cm ³) variable-dis-	

Moldboard Wear-resistant high-carbon steel

Length	
Cutting Edge: Dura-Max [®] through-hardened curved steel Thickness and width	,
Blade Range: Lift above ground	

Shoulder reach outside wheels (frame straight): Right 88.4 in. (2.25 m) Left 89.6 in. (2.28 m) Pitch at ground line 44 deg. forward 10 deg. back
5
Blade Lift Mechanism:
Control Dual-lever, hydraulic
Lift Arms: Nodular cast iron
Positions
Circle: Eabricated steel angle construction

Circle:	. Fabricated steel angle construction
Circle diameter	
Drive Hydra	ulic motor and worm gear w/positive
	position lock
Sideshift, right	position lock
	33.5 in (851 mm)

Drawbar . . Welded box section, 3.5 x 7 x 0.5 in. (89 x 178 x 13 mm) wall w/ball and socket draft connection

Frame:

Rear mainframe	Welded box section from
arti	culation joint to mainframe arch
Width, minimum	
Height, minimum	
Thickness, sides	0.47 in. (12 mm)
top and bottom (min.)	0.87 in. (22 mm)
Weight per ft., minimum	120 lb. (179 kg/m)
Minimum vertical section modulus .	143 in ³
	(2343 cm3)
Front mainframe	Wolded box costion from
	mainframe arch to front hood
Width	10 in. (254 mm)
Height, minimum	
Thickness, minimum	
Weight per ft., minimum	
Minimum vertical section modulus .	
	(1935 cm ³)

Tires:

13.00-24, 12-PR, G2, standard 14.00-24, 12-PR, G2 17.5-25, 12-PR, L2

Dimensions:

Tire	Wheel	Tread	Wi	dth	Ground Clearance	
Size	Front	Rear	Front	Rear	(Front Axle)	
13.00-24 8" rim (203 mm)	76.15 in. (1.93 m)	79.61 in. (2.02 m)	7 ft. 9.5 in. (2.37 m)	7 ft. 10 in. (2.34 m)	22 in. (559 mm)	
14.00-24 10" rim (254 mm)	76.15 in. (1.93 m)	79.61 in. (2.02 m)	7 ft. 11.5 in. (2.43 m)	8 ft. (2.44 m)	22.5 in. (572 mm)	
17.5-25 14" rim (356 mm)	78.40 in. (1.99 m)	82.37 in. (2.09 m)	8 ft. 5 in. (2.57 m)	8 ft. 6 in. (2.59 m)	23.2 in. (589 mm)	
Height to	top of s	teering w	wheel		. 7 ft. 6 in. (2.29 m	
Capaciti	es:			U	I.S. Liter	
Cooling			·····			
includi	ng filter			2	0 qt. 18.	
hydrau Tandem	ulic syste housings	em s (each)		5	gal. 18.	
V-type for Number Lift abov Penetrat	of teeth e ground ion		it with 3 mar		ositions standard, 9 optiona . 24.0 in. (610 mm . 13.7 in. (348 mm s 3 in. (25 x 76 mm	
Ripper (Special	Equipme	nt): 8 ft. (2. linkage, 2 r	44 m) cut w manual shar	vidth, parallelogran	
Number Lift abov Penetrat Shank si	of shank e ground ion ize	(s d			. 14.5 in. (368 mm 14 in. (356 mm 5 in. (51 x 127 mm . 23.5 in. (597 mm	

772A MOTOR GRADER SPECIFICATIONS

Additional Standard Equipment:

Gauges:	Horn	SAE O
Air filter indicator	Hourmeter	Standa
Engine oil pressure	Lights, stop and tail	
Front-wheel-drive return filter	Lights, driving	Standa
indicator	Precleaner	ands
Front-wheel-drive charge	Reverse warning alarm	Standa
pressure	ROPS cab w/seat belt, front wiper	scari
Fuel level	and dome light	
Hydraulic function return filter	Seat, cushioned vinyl	
indicator	Turn signals	
Transmission clutch pressure		
Transmission filter indicator		
Transmission lube pressure		
Transmission temperature		
Water temperature		

SAE Operating Weight Standard equipment	On Front Wheels 9237 lb. (4190 kg)	On Rear Wheels 21,666 lb. (9827 kg)	Total 30,903 lb. (14 017 kg)
Standard equipment	10,548 lb.	21,470 lb.	32,018 lb.
and scarifier	(4784 kg)	(9739 kg)	(14 523 kg)
Standard equipment,	9780 lb.	24,712 lb.	34,492 lb.
scarifier and ripper	(4436 kg)	(11 209 kg)	(15 645 kg)

lb.

kq

Optional or Special Equipment with Weights: (Add these weights to SAE Standard Equipment operating weights to obtain total operating weights.)

	lb.	kg
Accelerator-decelerator	7	3
Air conditioner w/heavy-duty		
alternator	187	85
Automatic blade control	350	159
Articulation indicator	6	3
Batteries, heavy-duty		
w/620-minute reserve capacity	101	46
Blade, front bulldozer	1010	704
w/float control	1618	734
Bottom guard, heavy-duty w/rear hitch	459	208
Bottom guard, regular	459	73
Cold-weather starting aid	3	1
Dura-Max through-hardened	0	
cutting edge, ³ / ₄ x 8 in. (19 x 203 mm)	8.5 lb/ft (13 kg/m)	
Engine disconnect, cold weather	30	14
Engine side shields	60	27
Fan, defroster	4	2
Front wheel drive in 1st through 6th gears,		
11.5 mph (19 km/h),		
free wheeling in 7th and 8th		
gears, 6 cu in. (98 cm ³)		
variable displacement pump	34	15
Heater, cab, 19,000 BTU (5.6 kW)	16	7
Heater, cab, 38,000 BTU (11.1 kW)	31	14
Heater, cab, 40,000 BTU (11.7 kW)	31	14
Heater coolant	1	0.5
Heater, roof-mounted, 25,000 BTU		-
(7.3 kW) (add to air conditioner)	17	8
Hydraulic pump, pressure controlled,		
variable displacement, 6.0 cu. in.	50	00
(98 cm ³), 52.4 gpm (3.3 L/s)	50 4	23 2
Lights, blade Lights, work, 2 front/2 rear floods	12	5
Mat, floor	9	4
Mirror, outside rear view, convex, outside	6	3
Mirror, outside rear view, convex, outside	0	0
both sides	12	5
Mirror, outside rear view, flat, one side	6	3
Mirror, outside, rear view, flat, both sides	12	5
Moldboards:		
12-ft. (3.66 m) w/3/4 x 8 in		
(19 x 203 mm) through-hardened		
Dura-Max cutting edge	106	48
13-ft. (3.96 m) w/5/₀ x 6 in.		
(16 x 152 mm) through-hardened		
Dura-Max cutting edge	60	27
13-ft. (3.96 m) w/3/4 x 8 in.		
(19 x 203 mm) through-hardened		
Dura-Max cutting edge	116	53
14-ft. (4.27 m) w/% x 6 in.		
(16 x 152 mm) through-hardened	110	00
Dura-Max cutting edge	146	66
14-ft. (4.27 m) w/ ³ / ₄ x 8 in.		
(19 x 203 mm) through-hardened Dura-Max cutting edge	155	70
Bula-wax outling edge	100	10

Moldboard extensions, 2-ft. (610 mm),	ID.	ĸġ
right or left (less cutting edge)	220	100
Moldboard float	14	6
Overlay end bits (1 pair), 6 in. (152 mm)	62	28
Overlay end bits (1 pair), 8 in. (203 mm)	77	35
Rear hitch	61	28
Rims:		
10 in. (254 mm) for 14.00-24 tires	452	205
14 in. (356 mm) for 17.50-25 tires	645	293
Ripper, rear mounted with hitch	2474	1123
ROPS canopy w/seat belt and		
instrument panel cover	-447	-203
Scarifier, regular w/five teeth		
1 x 3 in. (25 x 76 mm)	1115	506
Scarifier float	9	4
Seat belt, 3-in. (76 mm)	3	1
Seat, deluxe suspension, cloth		
covered	111	50
Seat, deluxe suspension, vinyl		
covered	58	26
Sound suppression package	AND STREET	
(includes bottom guard)	542	246
Sound suppression package	005	101
(for use w/ripper)	295	134
Tires:	010	05
14.00-24, 12 PR, G2	210	95 213
17.5-25, 12 PR, L2	468	
Toolbox		5
Winter door cam for cab	4	2
Wiper, rear windshield	4	2

772A MOTOR GRADER DIMENSIONS

