

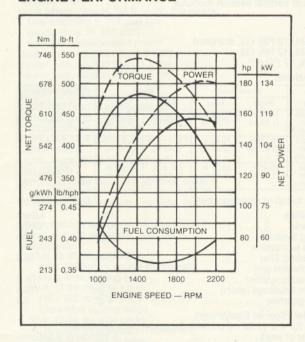
# 772A-H MOTOR GRADER (Dual Power)







#### **ENGINE PERFORMANCE**



#### **FEATURES**

180 SAE net hp (134 kW) in gears 4-8

155 SAE net hp (116 kW) in gears 1-3

32,000 to 34,000 (14 515 to 15 422 kg) operating weight with typical options and special equipment

12-ft. (3.65 m) moldboard with 0.62 x 6 in. (16 x 152 mm) through-hardened Dura-Max® cutting edge guaranteed against breakage, standard; longer moldboards and 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)

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

All-hydraulic control of blade and machine functions

Closed-center hydraulic system with drift-free poppet valves and pushbutton controls

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

Oscillating front axle and tandem rear wheels

Hydraulic front-wheel lean

Rollover protective structure (ROPS) w/cab

#### ADD VERSATILITY WITH:

Snow plow and wings

Scarifier

Rear-mounted ripper

Bulldozer

Automatic blade control



### 772A-H MOTOR GRADER (Dual Power) 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 with 8-in. (203 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.)

. 14 in. (356 mm)

..... 2×5 in. (51 × 127 mm)

Lift above ground (shank in upper position) . . . . 23.5 in. (597 mm)

Penetration .....

Shank size .....

Rated Power @2200 rpm: Net	SAE	DIN 70 020	) Blade	Ran	ge:				17 in. (432 mm)	
In gears 1-3	155 hp (116 kV 190 hp (142 kV	V) 116 kW V)	Blade Rig	side ht or	shift: left			2	6.9 in. (683 mm)	
In gears 1-3			Dia	der re	each outsi	de wheels	(frame stra	light):	88.4 in. (2.25 m)	
Net engine power is with standard of nator, and cooling fan, at standard of D fuel gravity. No derating is required without cooling fan.	conditions per SAE J1349 and	DIN 70 020, using N	o. 2- Lef	t					89.6 in. (2.28 m) 44 deg. forward 10 deg. back	
Engine: John Deere 6-466. Type 4-stroke o	A cycle, turbocharged and	d intercooled die	sel Blade	Lifti	ng Mecha	nism:		Due	Houer budroulie	
Bore and stroke	$4.56 \times 4.75$	in. (116 × 121 m	nm) Contin		Cast nodu			Dua	I-lever, hydraulic	
Displacement	4	66 cu. in. (7.638	3 L) Positi	ons .						
Compression ratio		537 lb-ft (728 N	1 \						ic, foot operated	
Maximum het torque @ 140	(74.2 kg-m)	— 25% torque i	rise Circle	diam	eter				igle construction 60 in. (1.5 m)	
	(74.2 kg-m)			ion		Hydr	aulie motor	and worn	360 deg. n gear w/positive	
Cooling fan		Suction ty				Hydi	aulic motor	and wom	position lock 2.0 in. (813 mm)	
Lubrication	triction indicator	tem w/full flow fl	Dry Sides	hift, r	ight			3	2.0 in. (813 mm) 3.5 in. (851 mm)	
Electrical system Battery (two 12-volt)	24 volt v	v/42-amp alterna	ator			box section	n, 3.5×7>	0.5 in. (89	$9 \times 178 \times 13$ mm)	
Transmission Di gear reductions. Foot i	rect drive, full power s	hift with planeta	ary Fram	e:					draft connection	
Travel speeds (2200 engir			Rear	main	frame		Welded	flanged b	ox section from mainframe arch	
Shift Lever Position	Forward	Reverse	Width	n, min	imum			12.	03 in. (306 mm)	
	mph km/h 2.3 3.7	mph km/l 3.0 4.8	h Heigh	nt, mi	nimum			11.	95 in. (304 mm) 0.47 in. (12 mm)	
1 2	3.3 5.3	4.2 6.8	3		top and b	oottom (mi	n.)		).87 in. (22 mm)	
3	5.2 8.4	6.6 10.6		ht per	ft., minim	num	ulus	12	0 lb. (179 kg/m) 143 in <sup>3</sup>	
4 5	6.7 10.8 8.8 14.2	8.6 13.8							(2343 cm <sup>3</sup> )	
6	11.5 18.5		Front	main	frame			Welded b	ox section from	
7 8	14.6 23.5 25.1 40.4		Width	١					10 in. (254 mm)	
Differential Lock	Foot-operated, hy	draulically actua	ted Heigh	nt, mi	nimum				13 in. (330 mm) 0.63 in. (16 mm)	
Rear Drive with heat-treated, splined s struction tandems; nodular roller chain in oil bath.	teel torque shafts. Osc	illating welded c	ves Weight on- Minin	ht pe	ft., minim	num		11	0 lb. (164 kg/m) 118 in <sup>3</sup> (1935 cm <sup>3</sup> )	
Front Drive	Standard ar	nd optional syste		)-24,	12 PR, G2					
are available to match different placement pump, a reversi					12 PR, G2 2 PR, L2					
to assure front wheel trace and free-wheels at transpo	tion. System has two	operational mo	des Dime							
Standard system — effecti	ve in gears 1-4	5.03			Wheel		Wid		Ground Clearance	
High speed system — effe	(89 cm <sup>3</sup> ) pump, 2.03	in <sup>3</sup> (33 cm <sup>3</sup> ) mot	tors Si		Front 76.15 in.	Rear 79,61 in.	Front 7 ft. 9.5 in.	Rear 7 ft. 10 in.	(Front Axle) 22 in.	
	(98 cm <sup>3</sup> ) pump, 2.03	in <sup>3</sup> (33 cm <sup>3</sup> ) mo	tors 8"	rim mm)	(1.93 m)	(2.02 m)	(2.37 m)	(2.34 m)	(559 mm)	
Front Axle: Fabricated ste Total oscillation		30 d	leg. 10"	0-24 rim	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)	
Wheel lean (either directio	n)	20 d	17.5		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)	
Steering: Front	Full hydraulic pow	er system. Steer	ring (356	mm)					, ,	
Rear	. Hydraulically articul	ithout engine po ated frame stee	ring	ht to t		ring wheel			7 ft. 6 in. (2.29 m) Liters	
Minimum turning radius	(	25 deg. left or ri		tank					al. 265.0	
Brakes:			Cooli		stem orication			7 ga	al. 26.5	ě
Service	Foot-ope		ally inc	ludin	g filter			20 qt	. 18.9	
Parking	Foot-operated, m		isk, hy	drauli	ion and c system .	ach)		41 ga	al. 155.2 al. 18.9	
Hydraulic System:			Worn							
Closed-center w/pressure placement pump	controlled 4.0 cu. in. (6	5 cm <sup>3</sup> ) variable- @2200 engine		ifier (	Special Ed	quipment):	h 2 manua	nitoh noc	itions	
Moldboard			teel Num	ber o	f teeth		h 3 manua	5 sta	ndard, 9 optional	
Length		12 ft. (3.66 24 in. (610 n	m) Lift a	bove	ground				24.0 in. (610 mm) 13.7 in. (348 mm)	
Thickness									in. (32 x 102 mm) th, parallelogram	
Thickness and width			nm)			link	age, 2 mar	iual shank	vertical positions	
			Num	ber o	f shank po					

## 772A-H MOTOR GRADER (Dual Power) SPECIFICATIONS

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

SAE Operating Weight	On Front Wheels	On Rear Wheels	Total
Standard equipment	9237 lb.	21,666 lb.	30,903 lb.
\$ 100 miles (100 miles	(4190 kg)	(9827 kg)	(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)

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

	lb.	kg
Accelerator-decelerator Air conditioner w/heavy-duty alternator Automatic blade control	7 187 350	3 85 159
Articulation indicator Batteries, heavy-duty	6	3
w/620-minute reserve capacity Blade, front bulldozer w/float control	101 1618	46 734
Bottom guard, heavy-duty w/rear hitch Bottom guard, regular	459 160	208 73
Cold-weather starting aid Dura-Max® through-hardened	3	1
cutting edge, $\sqrt[3]{4} \times 8$ in. (19 x 203 mm) Engine disconnect, cold weather Engine side shields	8.5 lb/ft 30 60	(13 kg/m) 14 27
Fan, defroster Front wheel drive in 1st through 6th gears, free wheeling in 7th and 8th gears, 6 cu. in. (98 cm³)	4	2
variable displacement pump	34 16	15 7
Heater, cab, 19,000 Btu (5.6 kW) Heater, cab, 38,000 Btu (11.1 kW) Heater, cab, 40,000 Btu (11.7 kW)	31 31 1	14 14 0.5
Heater, coolant Heater, roof-mounted, 25,000 Btu	0.000	
(7.3 kW) (add to air conditioner) Hydraulic pump, pressure controlled variable	17	8
displacement, 6.0 cu. in. (98 cm³) 52.4 gpm (3.3 L/s)	50	23
Lights, blade Lights, work, 2 front/2 rear floods Mat, floor	12	5 4
Mirrors, outside rear view, convex, outside 3		6
Mirrors, outside rear view, convex, both sides 5		12
Mirror, outside rear view, flat, one side Mirror, outside rear view, both sides	6 12	3 5
Moldboards: 12-ft. (3.66 m) w/3/4 x 8 in.		
(19 x 203 mm) through-hardened, Dura-Max cutting edge 13-ft. (3.96 m) w/5/4 x 6 in.	106	48
(16 x 152 mm) through-hardened, Dura-Max cutting edge 13-ft. (3.96 m) w/3/4 x 8 in.	60	27
(19 x 203 mm) through-hardened, Dura-Max cutting edge 14-ft. (4.27 m) w/5/6 x 6 in.	116	53
(16x 152 mm) through-hardened, Dura-Max cutting edge 14-ft. (4.27 m) w/3/4 x 8 in.	146	66
(19 x 203mm) through-hardened, Dura-Max cutting edge	155	70

	lb.	kg
Moldboard extensions, 2-ft. (610 mm),	220	100
right or left (less cutting edge) Moldboard float	14	6
Overlay end bits (1 pair), 6 in.	14	0
(152 mm)	62	28
Overlay end bits (1 pair), 8 in.	02	20
(203 mm)	77	35
Rear hitch	61	28
Rims:	0.	
10 in. (254 mm) for 14.00-24	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 1x3 in.		
(25 x 76 mm)	1115	506
Scarifier, heavy-duty w/five teeth		
11/4 x 4 in. (32 x 102 mm)	1313	596
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 (includes	F.40	040
bottom guard)	542	246
Sound suppression package (for use	205	134
w/ripper)	295	134
Tires:	210	95
14.00-24, 12 PR, G2 17.5-25, 12 PR, L2	468	213
Toolbox	11	
Winter door cam for cab	4	2
Wiper, rear windshield	4	5 2 2

