



MOTOR GRADER

772D



SIX-WHEEL DRIVE

Engine	772D					
Type	. John Deere PowerTec	ch™ 6081H; meets EPA Tier	Il non-road emissions regulations			
Rated Speed		,	· ·			
Engine Power	, I					
Gears 1–2 (6WD on)	. 198 gross hp (148 kV	V) / 185 net hp (138 kW)				
Gears 3–5 (6WD on)						
Gears 6–7 (6WD on)						
Gear 8 (6WD off)						
	. turbocharged with waste-gate boost pressure regulation and air-to-air aftercooler					
Number of Cylinders						
Displacement						
Fuel Consumption, Typical (depending on	. 434 Gu. III. (O.1 L)					
duty cycle)	1 0 to 10 2 gal /hr (1)	5.1 to 30.0 L/h)				
Net Torque @ 1,000 rpm	6WD off	3.1 (0 39.0 L/11)	6WD on			
Gears 1–2		@ GEN/ not torque rice	778 lbft. (1055 Nm) @ 59% net torque rise			
Gear 3			838 lbft. (1136 Nm) @ 52% net torque rise			
Gears 4–5			838 lbft. (1136 Nm) @ 52% net torque rise			
Gears 6–7			950 lbft. (1288 Nm) @ 55% net torque rise			
Gear 8			N/A			
Lubrication						
Air Cleaner with Restriction Indicator						
Electrical System						
Batteries (two 12 volt)	. 1,400 cold-cranking a	amps, 440-min. reserve ca	pacity			
Steering and Articulation						
	euverability and produc	tivity; crab steering reduce	s side drift, positions tandems on firm ground, and increases side slope stability			
Front steer plus articulated						
Articulation (both left and right)						
Turning Radius (front steer plus articulation)	. 23 ft. 6 in. (7163 m)					
Front Wheel Lean	. 20 degrees					
Six-Wheel Drive	-					
Automatic dual path; increases tractive effort an	d front-end control; incl	ludes separate left and righ	t systems with variable-displacement pumps, axial piston wheel motors, free wheel			
			apability down to 0 mph, and on/off control			
Effective in Gears 1–7 Forward and Reverse	, , ,	, 0				
Hydrostatic Pumps (2)	. 3.9 cu. in. (64 cm³) ea	ach				
Wheel Motors, Variable Displacement						
Final Reduction	,	10 00 0m j				
Tires and Rims						
Tire Size	Front	Rear				
14.00-24 on 10-in. (254 mm) Rim						
Wheel Tread (on ground)	82 in (2.08 m)	82 in. (2.08 m)				
Overall Width (top of tires)		98 in. (2.49 m)				
O v c i a ii v v i u ii l (t i v i i i i c s)	(2.01 111)	JU III. (∠.+J III)				

Tire Size	Front	Rear
14.00-24 on 10-in. (254 mm) Rim		
Wheel Tread (on ground)	82 in. (2.08 m)	82 in. (2.08 m)
Overall Width (top of tires)	99 in. (2.51 m)	98 in. (2.49 m)
Ground Clearance (front axle)	23.1 in. (587 mm)	
17.5-25 on 14-in. (356 mm) Rim		
Wheel Tread (on ground)	85 in. (2.16 m)	85 in. (2.16 m)
Overall Width (top of tires)	104 in. (2.64 m)	104 in. (2.64 m)
Ground Clearance (front axle)	23.1 in. (587 mm)	

Productivity

Blade Pull @ Maximum Weight and 0.9

Operating Weights

SAE Operating Weights With Standard
Equipment

Front. 9,620 lb. (4364 kg)
Rear 24,660 lb. (11 186 kg)
Total 34,280 lb. (15 549 kg)

Operating Weights (continued) 772D

Typical Operating Weights with Front Push

Block and Ripper

 Front.
 11,160 lb. (5062 kg)

 Rear
 29,630 lb. (13 440 kg)

 Total
 40,790 lb. (22 630 kg)

Maximum Operating Weight (snow equipment)

Transmission

Travel Speeds (with no tire slip)

 Shift Lever Position 1
 2.2 mph (3.5 km/h)

 Shift Lever Position 2
 3.1 mph (5.0 km/h)

 Shift Lever Position 3
 4.4 mph (7.1 km/h)

 Shift Lever Position 4
 6.2 mph (10.0 km/h)

 Shift Lever Position 5
 9.3 mph (15.0 km/h)

 Shift Lever Position 6
 13.1 mph (21.1 km/h)

 Shift Lever Position 7
 18.3 mph (29.5 km/h)

 Shift Lever Position 8
 25.8 mph (41.5 km/h)

Final Drives

Spiral bevel differential, inboard-mounted planetary sealed in cooled, filtered oil; operator-controlled differential lock/unlock; 2-in. (51 mm) pitch tandem drive chains

Front Axle

Heavy-duty, welded box construction

Brakes

Foot-controlled, hydraulically operated, multiple wet-disc brakes sealed in cooled, filtered oil; self adjusting, maintenance free; includes spring-applied, hydraulically released parking brake; both independent braking systems effective on all four tandem wheels

Hydraulic System

Maximum System Pressure.....2,750 psi

Blade Function

All-hydraulic, industry preferred hand-lever placement of blade-function controls; includes float position; easy conversion from two-hand to one-hand blade-lift control; seven blade-lift arm positions

Blade Range

Shoulder Reach Outside Wheels (Frame

Straight)

Pitch at Ground Line 42 degrees forward / 5 degrees back

ROPS

Low-profile cab, full-height cab, and canopy ROPS (Rollover Protective Structure) meet criteria within SAE J1040MAY 1994, ISO 3471-1997, SAE J397MAY1994, and ISO 3164

Mainframe

 Type
 ... welded box construction

 Width, Minimum
 ... 12.07 in. (306.5 mm)

 Height, Minimum
 ... 10.63 in. (270 mm)

Thickness

 Sides
 0.63 in. (16 mm)

 Top and Bottom
 1 in. (25 mm)

Draft Frame

Welded box construction machined for flatness with double ball-and-socket pivot connection, equipped with replaceable wear inserts

Circle	772D	
		yth, machined for flatness, equipped with replaceable wear inserts
Circle Diameter		
Drive	•	re lock
Side Shift	. Tryurauno motor ana worm goar war poolav	VION
Right	. 28.5 in. (724 mm)	
Left	. 31 in. (787 mm)	
Moldboard		
		high-carbon steel, equipped with replaceable side-shift wear inserts
Length Height		
Thickness		
Cutting Edge	. 0.00 III. (22 IIIII)	
Type	. Dura-Max® through-hardened steel edge	
Thickness and Width	. 0.62 x 6 in. (16 x 152 mm)	
Front Scarifier		
Type		aulic float
Width of Cut		
Number of Teeth	•	
Lift Above Ground		
Shank Size	,	
Rear Ripper / Scarifier		
	. parallelogram linkage with manual valve co	ntrol and hydraulic float, tool bar for five ripper and nine scarifier shanks
Ripper		
Width of Cut		
Number of Shanks		
Lift Above Ground		
Shank Size		
Scarifier	,	
Width of Cut		
Number of Teeth		
Lift Above Ground		
Maximum PenetrationShank Size		
Capacities (U.S.)		
Fuel Tank	. 106 gal. (401.2 L)	Differential Housing9.5 gal. (36 L)
Cooling System		Tandem Housings (each) 20 gal. (75.7 L)
Engine Lubrication, Including Filter		Circle Gearbox
Transmission	. 6 gal. (22.7 L)	Hydraulic Reservoir
Dimensions	10 (1 5 1 (0155	F 111 11 (2/22)
A Height to Top of Cab*		F Wheelbase
B Height to Top of Exhaust		G Overall Length
C Height to Top of Blade-Lift Cylinders	,	H Overall Length with Scarifier
D Tandem Axle Spacing		Overall Length with Scarifier and Ripper408 in. (10 363 mm)
E Blade Base	8 11. 9 111. (2070 111111)	*Add 8.9 in. (225 mm) for full-height cab.
A B		C

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Optional or Special Equipment With Approximate Weights

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Ш	tn Approximate Weights	//ZV
	Add these weights to SAE standard equipment operating weight	to obtain total operating weight.
	Coolant Heater	
	Rotary Ejector Precleaner	
	Lighting Packages	(5 1.9)
	For Grading (10 halogen lights)	9 lh (4 kg)
		0 ID. (4 Kg)
	For Grading (10 halogen lights) with LED Turn Signals,	
	Brake Lights, Markers Light, and Hazard Warning	
	Lights	
	Deluxe for Grading (16 halogen lights)	16 lb. (7 kg)
	Deluxe for Grading with 6 Extra LED Colored Lights	
	(16 halogen lights)	17 lb. (8 kg)
	Deluxe for Grading with 6 LED Colored Lights (18 halo-	, ,,
	gen lights)	20 lh (9 kg)
	High-Front Light Bar for Snowplowing	
	24- to 12-Volt 30-Amp Converter	3 ID. (1 Kg)
	Auxiliary Hydraulic Control Valve Section and Controls	
	(optional valves are available for attachments such as	
	rear ripper, front-mounted scarifier, and snow equipment;	
	see dealer price list for details)	
	Hydraulics for Front-Mounted Equipment	19 lb. (9 kg)
	Moldboards with Through-Hardened Dura-Max® Cutting Edge	
	12 ft. x 24 in. x ⁷ / ₈ in. with 8-in. x ³ / ₄ -in. cutting edge	100 lb. (45 kg)
	12 ft. x 27 in. x 1 in. with 8-in. x $\frac{3}{4}$ -in. cutting edge	
	13 ft. x 27 in. x 1 in. with 8-in. x $\frac{3}{4}$ in. cutting edge	
	14 ft. x 24 in. x $^{7}/_{8}$ in. with 6-in. x $^{5}/_{8}$ -in. cutting edge	
	14 ft. x 24 in. x $\frac{7}{8}$ in. with 8-in. x $\frac{3}{4}$ -in. cutting edge	
	14 ft. x 27 in. x 1 in. with 8-in. x $^3/_4$ -in. cutting edge	554 ID. (251 Kg)
	Extensions, 2 ft. (610 mm), Right or Left (less cutting edge)	
	For Use with 24-in. Moldboards	
	For Use with 27-in. Moldboards	228 lb. (103 kg)
	Overlay End Bits, Reversible (one pair)	
	For 6-in. (152 mm) Cutting Edge	42 lb. (19 kg)
	For 8-in. (203 mm) Cutting Edge	
	Extended Wear Moldboard Side-Shift Wear Inserts	
	Extended Wear Circle Wear Inserts	
	Bottom Guard, Heavy Duty with Side Guards	
	Front Weight	550 lb. (240 kg)
	Push Block, Front	
	Rear Hitch	50 lb. (23 kg)
	Ripper/Scarifier, Rear Mounted with Hitch and Ripper	
	Shanks (3)	
	Scarifier, Front Mounted with Teeth (5)	1,874 lb. (850 kg)
	Tires	
	14.00-24, 12 PR G2	– 264 lb. (– 120 kg)
	17.5-25, 12 PR L2	
	14.00-R24, Radial, XGLA-2	
	14.00-R24, Radial, SnoPlus	
	17.5-R25, Radial, XTLA	
	17.5-R25, Radial, SnoPlus	
	17.5-R25, Radial, XHA L3	
	550/65R25, XTLA 70 L2	900 lb. (408 kg)
	Multi-Piece Rims	
	10 in. x 24 in	
	12 in. x 25 in	192 lb. (87 kg)
	14 in. x 25 in	561 lb. (254 kg)
	Low Cab with Opening Front and Side Windows (air condi-	
	tioning, heater ducts, and 3-in. seat belt)	35 lb. (16 kg)
	Tall Cab with Fixed Front and Side Windows (air condition-	55 iz. (15 itg)
	ing, heater ducts, and 3-in. seat belt)	126 lh (57 kg)
	Tall Cab with Opening Front and Side Windows (air condi-	120 ib. (01 kg)
		120 lb (60 kg)
	tioning, heater ducts, and 3-in. seat belt)	
	Canopy, Low Profile with ROPS (3-in. seat belt)	– 356 lb. (– 161 kg)
	Deluxe Cloth Seat with Air Suspension and Adjustable Arm-	
	rests and Headrest	
	Wipers/Washers, Lower-Front Windows	9 lb. (4 kg)

772D MOTOR GRADER

Key: ● Standard equipment ▲ Optional or special equipment

*See your John Deere dealer for further information.

772D Engine

- Meets EPA Tier II non-road emissions regulations
- Self-diagnostic with service-code display
- Rubber isolation mounting to reduce noise and vibration
- Vertical spin-on engine oil filter
- Air-to-air aftercooling for low-engine-speed lugging
- Environmentally friendly engine oil drain valve
- Quick-release dual-stage fuel filter with primer pump
- Fuel/water separator and visual sediment bowl
- Dual air cleaner elements, radial seal, dry type
- Self-draining muffler with curved stack
- Blower-type cooling fan with automatic tensioner
- Variable horsepower
- Electric fuel shutoff
- Safety fan guard
- Extended-life engine coolant -34°F (-37°C)
- Engine coolant surge tank
- Serpentine belt with automatic tensioner
- Glow plugs
- Engine coolant heater, 1,500 W, 120 volt

Transmission

- John Deere PowerShift Plus™, direct drive, countershaft, eight speeds forward and eight speeds reverse
- Autoshift transmission (gears 4-8)
- Electronic shift modulation
- Over-speed protection
- Self-diagnostic with service-code display
- Industry standard U-shaped shift pattern
- Transmission neutral lock, safety start switch
- Rubber isolation mounting to reduce noise and
- Easy-access vertical spin-on oil filter
- Separate oil lubrication, filtration, and cooling system
- Quick-disconnect transmission test ports

Axle, Final Drive, and Brakes

- Operator-controlled, hydraulically operated differential lock
- Spiral bevel planetary final drives
- Separate oil lubrication, filtration, and cooling system
- Inboard, wet multi-disc brakes
- Primary and secondary brakes, SAE J / ISO 3450
- Spring-applied, hydraulically released parking brake, SAE J / ISO 3450

Electrical

- Heavy-duty, low-maintenance, 1,400 CCA, 440min. reserve capacity batteries (2)
- Heavy-duty, low-maintenance, 750 CCA, 180-min. reserve capacity batteries (2)
- 100-amp alternator
- Bypass start safety cover on starter
- Electrical load center
- Individual circuit protection, blade-type fuses
- Electrical master disconnect switch
- Positive terminal battery covers
- High-output halogen transporting lights (4)
- Cab prewired for rotating beacon, radio, and auxiliary circuit
- Electric horn, SAE J1446

772D Electrical (continued)

- Reverse warning alarm, 111 db(A), SAE J994
- Rear stop lights (2)
- Front and rear turn signals (2)
- Halogen grading lights (10)
- Deluxe halogen lighting package (16)
- LED brake and turn lights
- Deluxe halogen snow package (18)

Hydraulic System

- Separate reservoir, filtration, and cooling system
- 54.7-gpm (207 L/min.) axial-piston main pump
- 0-ring face seal fittings
- Float position on blade cylinders
- Conversion kit from two-hand to one-hand blade lift
- Hydraulic pump disconnect for cold-weather

HFWD

- Effective in gears 1-7
- 15-position aggressiveness control
- Automatically increases tractive effort and steering
- Axial-piston pumps (2) with separate left and right systems
- Inching capability to 0 mph

Blade Functions

- Industry preferred control pattern
- Seven-position saddle
- Four-function hydraulic control valve, right and left
- Up to six auxiliary function control valves, three right and three left

Draft Frame

- Double ball and socket for extreme-reach positions left and right
- Replaceable wear inserts

Circle

- Nylon wear inserts
- Extreme-service bronze wear inserts
- 360-degree rotation
- Circle drive with slip clutch

Moldboard

- 12-ft. x 24-in. x 0.88-in. (3.66 m x 610 mm x 22 mm) high strength, wear resistant
- 14-ft. x 24-in. x 0.88-in. (4.27 m x 610 mm x 22 mm) high strength, wear resistant
- 12-ft. x 27-in. x 1-in. (3.66 m x 686 mm x 25 mm) high strength, wear resistant
- 13-ft, x 27-in, x 1-in, (3.96 m x 686 mm x 25 mm) high strength, wear resistant
- 14-ft. x 27-in. x 1-in. (4.27 m x 686 mm x 25 mm) high strength, wear resistant
- Standard-duty wear inserts
- Extreme-service wear inserts

Cutting Edge

- 0.62-in. x 6-in. (16 mm x 152 mm) Dura-Max® through-hardened steel
- 0.75-in. x 8-in. (19 mm x 203 mm) Dura-Max through-hardened steel

Front Attachments

- Push block
- Front weight, 550 lb.

772D Front Attachments (continued)

- V-type scarifier with float position, five shanks
- Auxiliary hydraulics for front-mounted equipment

Rear Attachments

- Ripper/scarifier combination with parallelogram linkage
- Bottom guard
- Side panels for bottom guard

Tires and Rims

- Single-piece rims
- Three-piece rims
- 14.00-24, 12 PR G2 17.5-25, 12 PR L2
- 14.00-R24, Radial
- 17.5-R25, Radial

550/65R25 **Operator's Station**

- Low-profile ROPS cab with air conditioning and
- ROPS canopy
- Full-height ROPS cab with air conditioning and
- Adjustable front console with tilt steering wheel
- Gauges: Fuel level / Engine coolant temperature / Rear steer indicator / Transmission and hydraulic oil temperature
- Monitor system with warning lights: Park brake on / Service brake pressure and/or audible alarm / Hydraulic oil temperature / Transmission oil temperature / Engine oil pressure / Alternator voltage / Differential lock filter restriction / Engine air filter restriction / Wait to start (cold start) / Transmission oil filter restriction / Hydraulic oil filter restriction / Differential lock engaged / Saddle lock pin
- disengaged / Service code warning HFWD charge pressure with audible alarm / HFWD charge filter restriction / HFWD temperature
- Lighted HFWD on-off switch
- Selectable display on monitor: Transmission gear and direction / Vehicle speed (mph) / Vehicle speed (km/h) / Engine speed (rpm) / Hourmeter / Alternator voltage / Service codes
- Indicators: Turn signal / Four-way flasher
- Instrument lights
- Interior lights
- Rearview mirrors (SAE J985): Exterior (2) / Interior Deluxe mechanical-suspension seat with adjustable armrests
- Deluxe air-suspension seat with adjustable armrests
- Retractable seat, 3 in., SAE J386
- Tinted glass
- Wipers for lower-front windows Front and rear windshield washers with intermit-
- tent wipers Openable lower-front windows
- Rear window electrical defroster Radio, AM/FM/weatherband
- Radio, AM/FM/weatherband with cassette
- Radio, AM/FM/weatherband with CD
- Heated outside mirrors Floor mat



DKA772D Litho in U.S.A. (05-02)

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

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 14.00-R24, Radial tires; 12-ft. x 24-in. x 0.88in. (3.66 m x 610 mm x 22 mm) high-strength, wear-resistant moldboard with 0.62-in. x 6-in. (16 mm x 152 mm) Dura-Max through-hardened-steel cutting edge; and standard equipment. Weights include lubricants, coolants, full fuel tank, and 175-ib.

