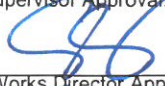


Vehicle Purchase Authorization Form			
To be Completed by Requesting Department	1: Vehicle To Be Purchased		
	Make: John Deere	Model: 5130M	Fund/Division: 001 / 1629
	CIP Account # VH0342	Budget Amount: \$150,000	Requested By: (Print Name & Initial) Alvin Dias
	New Vehicle Specifications: (if more space needed – attach pages) See attached specs		
To be Completed by Fleet	2: Vehicle To Be Replaced: (To be completed for replacement vehicles only)		
	Vehicle #:	Make:	Model:
	Year:	Mileage:	Annual Miles Driven:
	Annual Preventative Maintenance Costs:	Repair Costs Life-To-Date:	
	3: Fleet Recommendations:		
	1. Does current vehicle meet Policy guidelines for replacement?	☐ Yes	☐ No ☐ N/A
	2. Does vehicle evaluation justify replacement?	☐ Yes	☐ No ☐ N/A
	3. Replacing with same class of vehicle? (If "no" attach memo)	☐ Yes	☐ No ☐ N/A
	4. Requested Vehicle Specifications Approved?	☐ Yes	☐ No
	5. Alternative Fuel/Hybrid/Low-emission vehicle available for these specifications?	☐ Yes	☐ No
Recommended Alternative Fuel/Hybrid/Low Emission Vehicle: Make / Model / Recommended Fuel System			
6. Is a recycled vehicle available for this use?	☐ Yes	☐ No	
Recommended Recycled Vehicle: Make / Model / Vehicle Number			
7. Is a used Enterprise department vehicle available for this use?	☐ Yes	☐ No	
Recommended Enterprise Vehicle: Make / Model / Vehicle Number			
4. Approvals:			
Department Head Approval:  AIC		Date: 3/21/25	
Fleet Supervisor Approval: 		Date: 3/24/25	
Public Works Director Approval: 		Date: 3-24-25	
Finance Director Approval:		Date:	



2025 John Deere 5M Series 5130M

Year	2025
Manufacturer	John Deere
Model Name	5M Series
Trim Name	5130M
Generic Type (Primary)	Utility
Engine Manufacturer	John Deere
Engine Type	PowerTech™ 4045 EWL
Engine	Model: 4045H1V82 Family: NJ0XL04.5317
Cylinder Liners	4 Wet sleeved
Displacement	4.5 L (276 cu in.)
Engine Power	At 2200 rpm: 95.8 kW (130 hp) Maximum: 99.9 kW (133.9 hp) Power boost: At 1900 rpm: 4 percent
Rated Engine Speed	2200 rpm / 540 at 2100 rpm / 540E at 1645 rpm / 1000 at 2100 rpm
Aspiration	Turbocharged/air-to-air aftercooled
Emissions	Final Tier 4 After treatment type: DOC/SCR
Engine Torque	Peak At 1600 rpm: 541 Nm (399 lb-ft)

Call Us At
(559) 734-7406

Have Questions?
Send a Message

Engine

Engine Manufacturer	John Deere
Engine Type	PowerTech™ 4045 EWL
Engine	Model: 4045H1V82 Family: NJ0XL04.5317
Cylinder Liners	4 Wet sleeved
Displacement	4.5 L (276 cu in.)
Engine Power	At 2200 rpm: 95.8 kW (130 hp) Maximum: 99.9 kW (133.9 hp) Power boost: At 1900 rpm: 4 percent
Rated Engine Speed	2200 rpm / 540 at 2100 rpm / 540E at 1645 rpm / 1000 at 2100 rpm
Aspiration	Turbocharged/air-to-air aftercooled
Emissions	Final Tier 4 After treatment type: DOC/SCR
Engine Torque	Peak At 1600 rpm: 541 Nm (399 lb-ft)

PTO

PTO Power, Rated Engine Speed	Rated (hp SAE): At 2100 rpm: 84.5 kW (115 hp) 540 at 2100 rpm / 540E at 1645 rpm / 1000 at 2100 rpm Front power take-off: 1000 rpm (21 spline) 1000 at 2200 rpm torque rise: At 1600 rpm: 30 percent Rear power take-off: Independent, Standard: 540/540 Economy (6 spline) actuation: Electrohydraulic
PTO Type	

Drivetrain

Transmission	PowerQuad™ PLUS 16F/16R Reverser: Left hand, electrohydraulic Creeper: PowerB™ 32F/16R with creeper
Differential Lock	Rear axle: Electrohydraulic controls: Electrohydraulic
Clutch	Wet
Drive System	Mechanical Front Wheel Drive (MFWO)
Final Drive	Inboard planetary

Brakes

Brake System Type	Hydraulic wet disc
--------------------------	--------------------

Wheels & Tires

Tires, Rear Specification	MFWO: 18.4R30 (460/85R30) R1W Radial
----------------------------------	--------------------------------------

Battery

Battery	12 V
----------------	------

Electric

Alternator	Cab: 120 amp / ISOBUS/GreenStar™ Ready: 200 amp
-------------------	---

Hydraulics

Hydraulic Pump	rated output: 97 L/min (25.6 gpm)
Hydraulic Type	Open center Number of rear selective control valves (SCVs): two Number of mid selective control valves (SCVs): two
Hydraulic Flow	73 L/min (19.3 gpm)

Performance

Noise Level	78 dBA
--------------------	--------

Chassis

Hitch/Type	Rear: Category 2, convertible to 1 draft control/load sense type: Mechanical or Electrohydraulic category (SAE designation): Category 2, convertible to 1 Drawbar category: Category 2 Front Category: Category 2
-------------------	---

Lights and Safety

Lighting	Working: Halogen Type of bulb in headlight: Halogen, Xenon, LED Standard: Halogen
-----------------	---

Dimensions

Dimensions	Wheel tread range MFWO: front: 1299-1997 mm (51.1-78.6 in.) / rear: 1350-2286 mm (52.1-90 in.) Rear power take-off: 34.9 mm (1.375 in.) Front power take-off: 34.9 mm (1.375 in.)
Turning Radius	With brakes MFWO: 3.85 m (12.6 ft) without brakes MFWO: 4.0 m (13.1 ft)
Wheelbase	2350 mm (92.5 in.)
Overall Length	OOS: 4081 mm (160 in.) / Cab: 4389 mm (161 in.)

Capacities

Hitch Lift Capacity	Maximum: 3164 kg (6975 lb) 1931 kg (4257 lb)
Drawbar Capacity	Road/field use (250-mm extended): 1450 kg (3197 lb) / field use (350-mm extended): 1200 kg (2646 lb) / field use (400-mm extended): 1200 kg (2646 lb)
Fuel Capacity	165.4 L (43.7 U.S. gal.) Diesel exhaust fluid (DEF) tank: 12.0 L (3.17 U.S. gal.)

Weights

Weight	3964 kg (8740 lb)
Weight, As Shipped	Approximate Cab: 4175 kg (9185 lb)

Features

Features	Joystick SCV control Mechanical Sensing type: Lower link Rear axle: Flange
Seat Type	Mechanical suspension Display: Digital Dash Display with three liquid crystal displays (LCDs)

John Deere 540M Loader

KEY SPECS

Maximum lift height (A)	3578 mm141 in.
Lift capacity at full height	Measured at pivot (U)1373 kg3027 lb
Boom breakout force	Measured at pivot (Y)2671 kg
Bucket rollback force capacity	At ground-level line (ZZ)3046 kg
Clearance at full height - bucket dump	2538 mm100 in.
Dump angle, degrees (E)	-74 degree (angle)
Rollback angle, degrees (G)	42 degree (angle)

TRACTOR

Model	6135E
Front tire	14.9R24
Rear tire	18.4R38
Front axle configuration	MFWD
Wheelbase	2380 mm94 in.
Pump capacity	75.7 L/min20 gpm
Rated pressure	195 bar2828 psi

LOADER

Base weight	1028.2 kg
Leveling configuration	Mechanical Self Leveling (MSL)
Bucket used	Materials 1850 mmMaterials 73 in.
Bucket weight	246 kg542 lb
Lift capacity at full height	Measured at pivot (U)1373 kg3027 lbMeasured at 800 mm ahead of pivot (V)1481 kg
Lift capacity at 59 in. (1500 mm)	Measured at pivot (W)2015 kgMeasured at 800 mm ahead of pivot (X)1931 kg
Boom breakout force	Measured at pivot (Y)2671 kgfMeasured at 800 mm ahead of pivot (Z)2325 kg
Bucket rollback force capacity	At maximum height (VV)1636 kgAt 59-in. (1500-mm) lift height (XX)2986 kgAt ground-level line (ZZ)3046 kg
Dimensions	Maximum lift height (A)3578 mm141 in.At full height - bucket level(B)3383 mm133 in.At full height - bucket dumped (C)2538 mm100 in.
Overall length (I+F), ft (m)	4.8 m15.8 ft
Overall height in carry position (J)	
Digging depth (H)	47 mm1.9 in.
Reach	At maximum height (D)1011 mm39.8 in.At ground level - bucket level (F)2426 mm95.5 in.
Bucket angle	Dump angle, degrees (E)-74 degree (angle)Rollback angle, degrees (G)42 degree (angle)Dump angle, ground-96 degree (angle)
Cycle times	Loader raise, seconds3.4 secondsLoader lower, seconds2.5 secondsBucket dump, seconds2.1 secondsBucket rollback, seconds2.1 seconds

ADDITIONAL INFORMATION

Date collected

John Deere AV20G Series Root Grapples

KEY SPECS

Cutting width 195.6 cm77 in.

Grapple opening 127 cm50 in.

Current series style Global

DIMENSIONS

Width 195.6 cm77 in.

Height 63.5 cm25 in.

Depth 38.1 cm15 in.

Cutting width 195.6 cm77 in.

Grapple opening 127 cm50 in.

ATTACHMENT TYPE

Current series style Global

WEIGHT

Operational 440 kg970 lb

Shipping 471.7 kg1,040 lb

GRAPPLE TIME

Upper tines Five

Grapple tine spacing 38.1 cm15 in.

Lower grapple tines Four

HYDRAULIC CYLINDERS

Quantity Two

GRAPPLE CLAMPING FORCE

Max 12,010.2 N270 lb-ft

SET-UP TIME

Labor hours

WARRANTY

Time period 1 year

ADDITIONAL INFORMATION

Date collected