

John Deere
5050E
Utility Tractor

Key Specs

Engine description	John Deere PowerTech™ 3029 EWR
Engine displacement	3 cylinders: 2.9 L 179 cu in.
Rated engine power	At 2100 rpm: 37.4 kW 50 hp
Maximum engine power	37.4 kW 50 hp
Rated PTO power (hp SAE)	At 2100 rpm: 27.6 kW 37 hp
Transmission type	SyncShuttle™ 9F/3R
Hydraulic pump rated output	68.8 L/min 18.2 gpm
Rear hitch category (SAE designation)	Category 2; convertible to 1

Engine specifications

Description	John Deere PowerTech™ 3029 EWR
Engine type	3029HPY110
Engine family	NJDXL02.9339
Rated speed	2100 rpm

Aspiration	Turbocharged
Cylinders liners	Wet sleeved
Emission level	Final Tier 4
After treatment type	DOC/EGR
Displacement	3 cylinders: 2.9 L 179 cu in.

Engine performance

Rated power	At 2100 rpm: 37.4 kW 50 hp
Rated PTO power (hp SAE)	At 2100 rpm: 27.6 kW 37 hp
Power boost	0 percent
Maximum engine power	37.4 kW 50 hp
Engine peak torque	At 1500 rpm: 209 Nm 154 lb-ft
PTO torque rise	22 percent

Transmission

Type	SyncShuttle™ 9F/3R
Reverser	No
Clutch; wet/dry	Dry
Creeper	Kit available for OOS SyncShuttle™ 9F/3R transmission

Hydraulic system

Type Open center

Pump rated output 68.8 L/min
18.2 gpm

Available flow at a single rear SCV 43.1 L/min
11.4 gpm

Number of rear selective control valves (SCVs) Standard: One
Optional: Two

Number of mid selective control valves (SCVs) Standard: Zero
Optional: Up to Three

Joystick SCV control Mechanical

Rear hitch

Hitch draft control load sense type Mechanical

Remote control valves available Standard: One
Optional: Two

Hitch category (SAE designation) Category 2; convertible to 1

Maximum lift capacity behind lift points 1448 kg
3192 lb

Sensing type Top link

Drawbar

Maximum vertical load

Road/field use (short position): 1120 kg
2470 lb
Field use (fully extended): 760 kg
1675 lb

Rear power take-off (PTO)

Type

Independent 540

Engine rpm (at rated PTO speeds)

540 at 2100 rpm

PTO actuation

Mechanical (lever)

Rear axle

Type

Flange

Final drive type

Planetary

Differential controls

Mechanical (pedal)

Brakes, type and control

Hydraulic wet disc

Front axle

Type

Standard: Two-Wheel Drive (2WD)
Optional: Mechanical Front Wheel Drive (MFWD)

Tires

Rear

2WD: 14.9-28 R1 Bias
MFWD: 14.9-28 R1 Bias

Turning radius with brakes

2WD: 3.1 m
10.2 ft

MFWD: 3.94 m
12.9 ft

**Turning radius
without brakes**

2WD: 3.5 m
11.5 ft
MFWD: 4.65 m
15.3 ft

Electrical system

Alternator size

70 amp

Battery options

12 V

Working lights

Halogen

**Type of bulb in
headlight (Halogen,
Zenon, LED)**

Halogen

**Type of bulb in beacon
(Halogen, Zenon, LED)**

Kit: Halogen

Operator station

**Rollover protective
structure, OOS**

Rigid - foldable - telescopic
Foldable, 2-post
Platform - flat/straddle
Straddle
Gearshift location - console/floor
Floor, on the side

Seat

Mechanical

Instructional seat

Not Available

Display

Simple automotive-style instrument cluster

Dimensions

Wheelbase

2WD and MFWD: 2050 mm
80.7 in.

Overall length

3639 mm
143.3 in.

Approximate shipping weight, Open;Cab

2WD OOS: 2420 kg
5335 lb
MFWD OOS: 2634 kg
5809 lb

Capacities

Fuel tank

72.5 L
19 U.S. gal.

Diesel exhaust fluid (DEF) tank

Not Applicable

Miscellaneous

AutoTrac ready

No

ISOBUS ready

No

Country of manufacture

Sub assembly in Pune, India, Final assembly in Augusta, GA

Date collected

6-Jan-2023