



3020-4020 Standard

TRACTORS





**John Deere 82 h.p.* 3020 and 106 h.p.* 4020
Standard Tractors... An exclusive brand of
power, speed, comfort, and convenience**



"3020" and "4020" Standards — modern, powerful, rugged.

To vast wheatland landscapes, to the rough and tumble of ricefields, to any farm operation requiring a powerful standard tractor, John Deere "3020" and "4020" Standards offer a brand of performance that gets big jobs done on schedule and puts money in the bank for you. There's plenty of power — 82 h.p.* on the "3020" Series, 106 h.p.* on the "4020" Series. Working speeds are

fast, and there's more comfort and convenience for you. Topping it off is the single-lever Power Shift Transmission that permits you to shift through all forward and reverse selections without clutching. After you've studied the following pages, make a date with your John Deere dealer to field-test a new "3020" or "4020" Standard Tractor. Once you do, you'll never want to settle for less.





Undercutting weed growth with an 18-foot 166F Chisel Plow, the "3020" demonstrates the power, speed, and lugging ability that you need to handle big jobs.

Power to run puts your job on schedule and keeps it there

It takes power, speed, and brawn to master heavy tillage in sectionwide wheatland and muddy rice-fields — and that's exactly what you get in a John Deere "3020" or "4020" Standard Tractor. You'll find yourself working wide-span equipment at maximum field speeds. There's plenty of pull on the drawbar in the higher, more-practical work gears (3rd, 4th, and even 5th) to see you through difficult conditions at a uniform, fast pace.

Large, heavy rotating engine parts, plus more built-in weight move you through tough spots at a steady pace, even with heavy equipment in tow. In many cases, ground-travel speeds are limited only by the ability of the implement to work efficiently at these higher speeds. Truly, this is power to run where others walk, power to put your job on schedule and keep it there.

John Deere variable-speed engines cover the full range of farm operations; provide the flexibility and versatility to handle light or heavy loads with equal efficiency. There's plenty of power to handle tillage work, plenty of speed plus greater fuel savings on light-load applications. On any job, you'll come out ahead on dollars and daylight with a new John Deere "3020" or "4020" Tractor.

At 4½ to 5 mph, this "4020" Standard and 20-foot 1200 Series Surfex Disk Tiller chews up a broad stubble field in a hurry.



Power differential lock Engage it on the go hydraulically

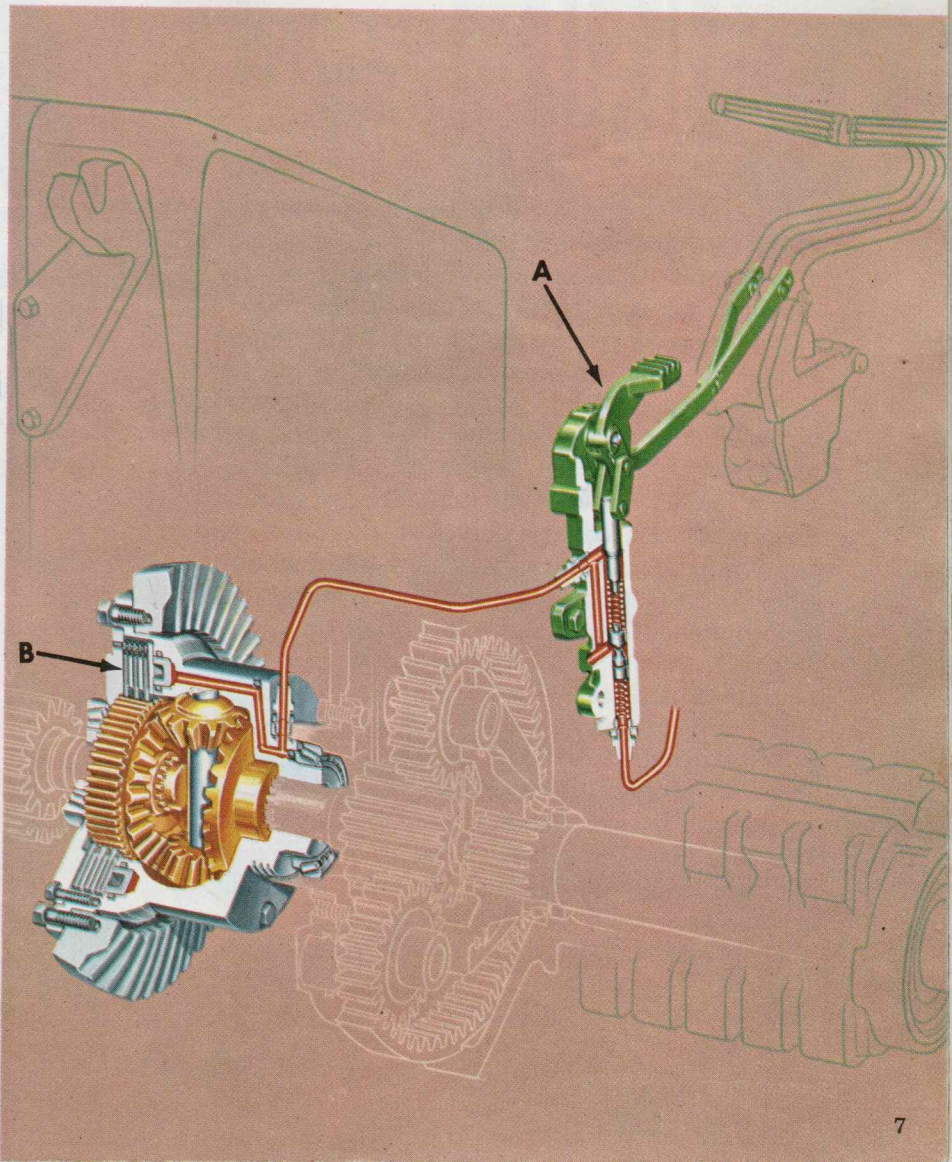
Muddy ricefield plowing points up the value of the Power Differential Lock.



Here's yet another John Deere hydraulic application that puts tractor power to work for you—the Power Differential Lock. Simply depressing a convenient pedal on the platform (a, below) causes hydraulic pressure to actuate a wet clutch (b) and lock the differential, smoothly directing power equally to both drive wheels. You can do it any time anywhere . . . standing still or on the go under load! A touch of either brake pedal releases the differential for normal operation. It's fast and easy.

Here is a feature — exclusive in design to John Deere—that promises better traction in difficult conditions . . . a feature that helps maintain more uniform working speeds and greater daily work output. The entire unit is of rugged John Deere design and manufacture; it's extra husky and dependable. Try it on ploughing where land-wheel slippage often occurs—you'll find yourself working at a steadier pace and accomplishing more. The Power Differential Lock is available on all "3020" and "4020" Tractors as an optional extra.

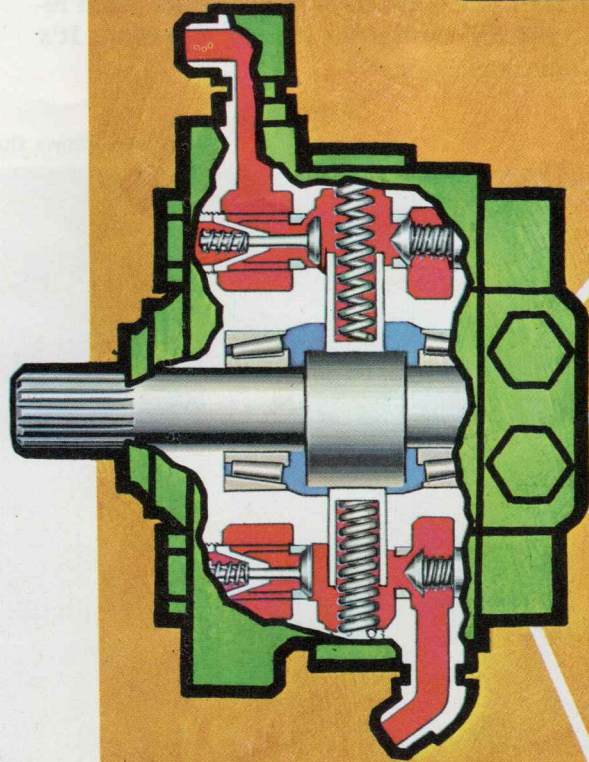
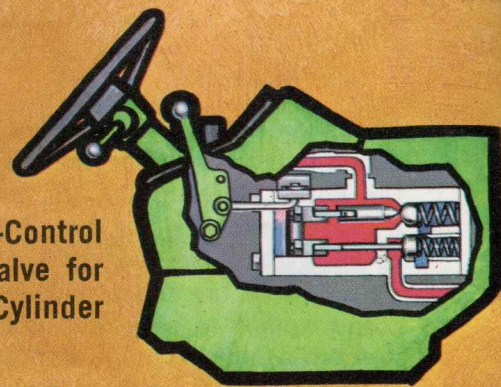
This view shows the heavy-duty construction of the new Differential Lock.



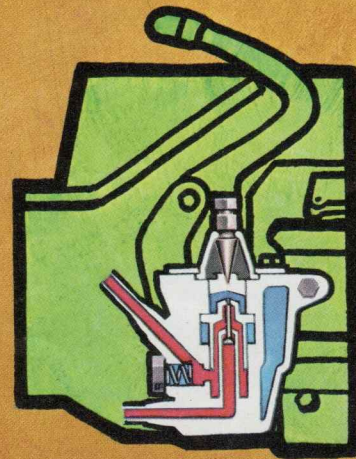
Single Pump Hydraulic System Provides power on demand

A big-capacity variable-displacement pump provides big capacity hydraulic power for equipment control. The pump is capable of instantly providing oil at 2000 psi (23 gpm on the "3020" at 2500 rpm, 25 gpm on the "4020" at 2200 rpm). In addition, the pump provides smooth power for steering and braking. It's a power-on-demand pump that provides hydraulic power when and where it's needed, then "rests" to conserve horsepower the remainder of the time. The large transmission-differential case serves as the reservoir, insuring ample oil capacity to serve all functions. Both power steering and power brakes are standard equipment; you can equip your "3020" or "4020" with equipment-control-functions as your requirements dictate — position-responsive rockshaft, one or two remote cylinders, Universal 3-Point Hitch, and Quik-Coupler. And John Deere also offers a Power Differential Lock as an integral part of this multi-function hydraulic system. This Differential Lock is described in detail on Pages 16 and 17. No other hydraulic system can match this one for speed, accuracy, and convenience. It's exclusive with John Deere.

Selective-Control
Valve for
Remote Cylinder



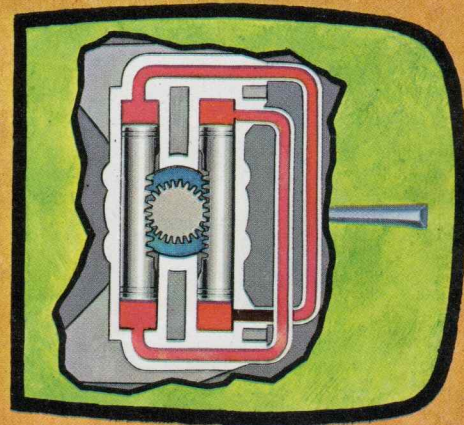
Power
Brakes



**Power-Steering
Valve**



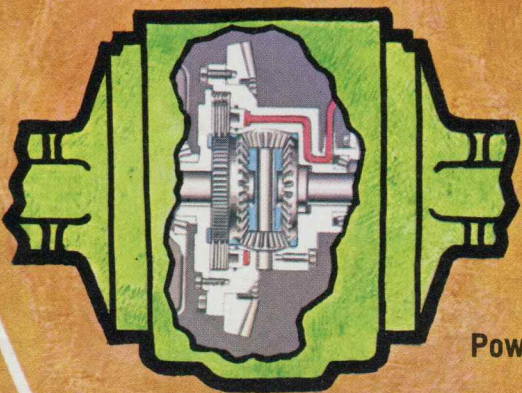
**Power-Steering
Motor**



**Position-Responsive
Rockshaft and
Universal 3-Point Hitch**



Power Differential Lock





OIL

TRANS. TEMP.

FUEL
DO NOT USE FOR FILLING

Power Shift

8
7
6
5
4
3
2
1

REVERSE

FORWARD

N

N

PARK

STOP-THEN
SHIFT TO
PARK BEFORE
DISMOUNTING

With single-lever Power Shift you'll shift straight through without clutching

Change gears under full load. Shift freely and instantly to any of eight forward and four reverse selections. Do it on the go without touching the clutch, without any interruption of power to the drive wheels. This is John Deere Power Shift, available on both the "3020" and "4020" Standard Tractors.

Single-lever control spells out faster speed selection, less confusion and chance for error. A fine selection of progressively aligned speeds is provided; practical, properly spaced speeds ideally suited for every job you'll encounter.

On tillage operations, you can shift up or down to match soil conditions. Ground-travel speed can be maintained almost exactly, a constant load is retained on the engine, and engine rpm

can be kept well within the operating range for greater efficiency. You can sprint across headlands; drop back into your work gear without hesitation. Proper ground speed can be held to keep PTO-driven equipment working to full capacity. Heavy loads can be started in a power gear and moved quickly and smoothly up to top transport speeds. On downgrades or at the ends of the field, you can slow down in a jiffy. You enjoy the added security of positive hold-back action in all gears. Direction-reverser action is also provided, again without clutching.

Summed up, John Deere Power Shift will save a big slice of your time and effort and will provide you with the most complete control over tractor power you've ever known.

Popular Syncro-Range Transmission also available

The time-proved Syncro-Range Transmission, which provides eight forward and two reverse selections, is also available. Within each of the four gear ranges, synchronizers in the transmission provide fast, on-the-go shifting. Speeds are well spaced to match every operation . . . from slow speeds for powershaft work to a real "go home" speed for moving quickly between jobs. Built-in quality and strength insure a long life of dependable service . . . after all, it's a John Deere product.



Only a John Deere offers such convenience

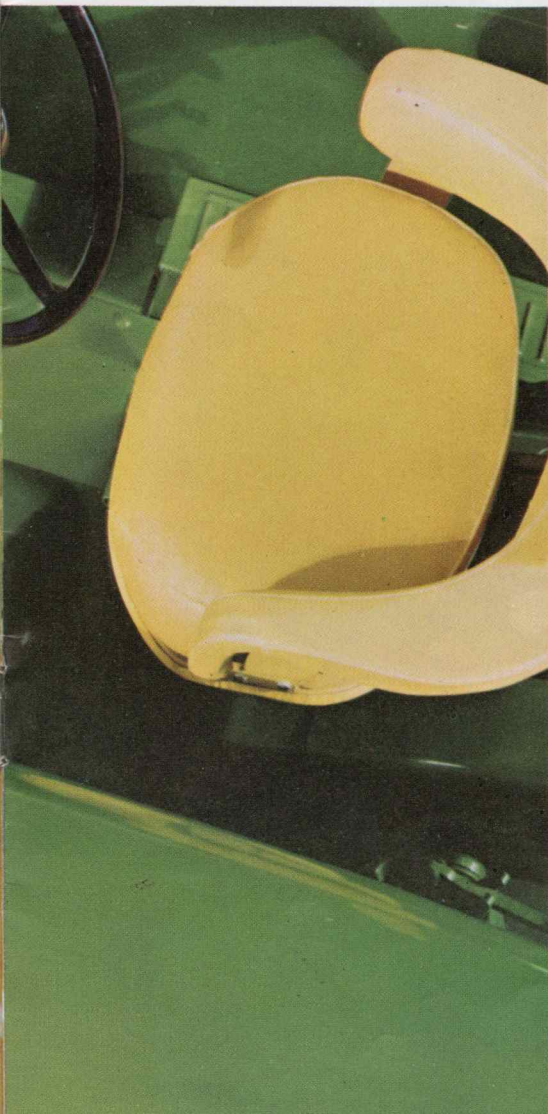
No acrobatics here, just two short steps up with handholds to make it easy.



From the ground to the platform of a "3020" or "4020" Standard, it's a straight-through "expressway." Sturdy mounting steps and convenient hand holds are provided for your convenience. There's no strain; the wide open platform invites you to step aboard easily, naturally. Wide rear fenders and operator shields protect you from most dust and dirt; make for cleaner operation. Directly in front of you, "showcased" on a soft black, non-reflective dash are systematically lo-

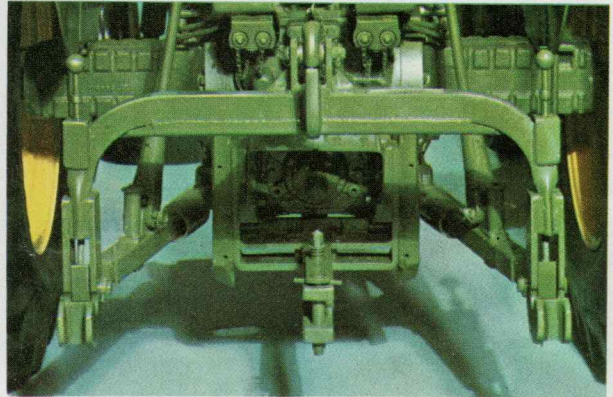
cated instruments and controls that make you truly the "boss" of tractor and implement. No stretching; your hands "fall" quite naturally onto the steering wheels, throttle, dash-mounted transmission and hydraulic controls . . . your eyes read the attractive instruments in a fast sweep. Individualized knobs identify hydraulic levers without the bother of looking. Brake and clutch or "inching" pedals are located just where you'd want them. This is fine practical design!

How's this for an "office on wheels!"





Hydraulic Equipment Control is fast, smooth, accurate



Tailored to your needs, the "3020" and "4020" tractor hydraulic system offers capacity to control the large implements that these tractors will handle. Not only plenty of power, but smooth, fast, and accurate, too! Dash-mounted control levers provide fast, convenient operation of up to three independent "live" hydraulic circuits singly or in any combination to match your requirements.

What are your needs? One or two double-action *remote cylinders*, featuring two speeds of raise and drop plus John Deere self-sealing breakaway couplings. A *position-responsive rockshaft* that obeys every movement of the control lever for use with 3-point equipment and which features Load, Depth, and exclusive Load-and-Depth Control. The *Universal 3-Point Hitch* for both Category 1 and 2 equipment. The *Quik-Coupler*, above, for the ultimate in ease of attaching 3-point tools. If you need any or all of these features, better see your John Deere dealer.

Only "3020" and "4020" Standard Tractors offer such a wide and complete hydraulic option.

Tractor hydraulic power takes over all the muscle work of steering, braking, lifting outriggers, and raising transport wheels of this 100 Series Flexible Chisel Plow.

Independent PTO handles 1,000-540 RPM equipment

An Independent Power Takeoff is available for the "3020" and "4020" Tractors. It delivers the power of these tractors smoothly to a wide variety of PTO-driven implements. Combined with the fine selection of ground-travel speeds, this PTO puts you on top of every powershaft operation regardless of crop density. The independent action permits you to start or stop tractor travel, even change gears without interfering with powershaft operations.

Both front and rear outlets are provided. Thus, two PTO-driven machines can be operated simultaneously (a mower and hay conditioner, for example). Both PTO outlets deliver full engine power efficiently at 1,000 rpm. Because of the big power output of the engines, this PTO operating speed is strongly recommended. A durable 540 rpm PTO is also provided at the rear outlet. Changing the PTO drive speed is simply a matter of quickly inserting the proper stubshaft.

Big engine power, independent powershaft action, well-spaced ground-travel speeds — these invite you to wade into the big PTO operations and shut the door on clogging delays.

This convenient control enables you to engage or disengage the PTO standing still or on the go. On Power Shift models, the PTO is controlled hydraulically.





Above all...quality and extra value

The enviable reputation that John Deere Tractors hold for dependability, quality and extra value stems from a progression of activities. Start with design by experienced Tractor engineers, add in plenty of testing, plus the finest in raw materials, backed by skilled manufacturing and constant inspection. Follow through with the moral fibre of a Company that backs what it sells and top it off with a reliable dealer who offers an exclusive brand of parts and service follow-up. "This having been done, gives this series of "3020" and "4020" Tractors the distinctive badge of quality — the honour of wearing the name John Deere".

Ricefield tillage, nature's toughest tractor test, provides ample proof of the "staying power" of John Deere Tractors.

Clock and calendar are tossed aside in the eternal John Deere quest for ever-higher tractor quality and durability.



SPECIFICATIONS 3020 and 4020 Standard Tractors

PERFORMANCE	3020 Standard	4020 Standard
Diesel	82 H.P.	106 H.P.
Manufacturer's Rating, Engine with Standard Accessories, SAE Corrected Flywheel Horsepower.		

ENGINE:	3020 Standard	4020 Standard
Type	4-cylinder, wet-sleeve, valve-in head, variable-speed	6-cylinder, wet-sleeve, valve-in-head, variable speed
Governed Speed Range	600 to 2,500 rpm	600 to 2,500 rpm
Bore and Stroke:		
Diesel	4 $\frac{1}{4}$ x 4 $\frac{3}{4}$	4 $\frac{1}{4}$ x 4 $\frac{3}{4}$
Compression ratios:		
Diesel	16.4 to 1	16.4 to 1
Displacement (Cubic Inches):		
Diesel	270	404
Lubrication	Full-pressure, full-flow with bypass relief valve, replaceable micronic paper element.	
Cooling System	Bypass cooling system with centrifugal pump and thermostatic heat control.	
POWER TAKEOFF	Independent Dual-Speed Rear (540-1,000 rpm PTO with front power takeoff for 1,000 rpm equipment.)	

CAPACITIES (U.S. Measures):

Fuel Tanks (Gallons)		
Diesel Engine	29	34
Cooling System (Quarts)	19	24
Crankcase (Quarts) (Includes Filter) ...	8	8
Transmission, differential, and hydraulic system (gallons)		
Synchro-Range	8	10
Power Shift	11	14



	"3020" Standard	"4020" Standard
CLUTCH	Foot clutch, 12-inch dry-disc type, spring loaded. Power Shift is multiple wet-disc type.	
BRAKES	Hydraulic power brakes—wet-disc type.	
ELECTRICAL SYSTEM	12-volt lighting and accessories, 24-volt starter on Diesel.	
INSTRUMENT PANEL	Speed-Hour Meter; electric fuel gauge; oil pressure and generator indicators, coolant temperature gauge; light switch; safety key master switch, and pushbutton starter switch; cigarette lighter. Transmission oil pressure and temperature gauges on Power Shift models.	
FRONT TYRES	For 30-inch rear7:50-16	For 30-inch 7:50-18; 11:00-16, 6-ply F-1 and F-2
	For 34-inch rear7:50-18	For 34-inch 11:00-16
REAR TYRES	16.9-30; 16.9-34; 18.4-30; 18.4-34; 23.1-30.	
WHEEL TREADS		
Front—Regular axle	55½ or 60¾ inches	56 or 60 inches
Adjustable, wide axle	50 to 79¼ inches	50 to 79 inches
Rear—Regular axle	63 to 91 inches	66 to 94 inches†
Adjustable, wide axle	63 to 97 inches	66 to 100 inches† (†23.1-30 tyres)
DIMENSIONS (Nebraska Test Weight):		
Diesel	9,325 lb.	12,795 lb.
Overall Length	138½ inches	151 inches
Height to steering wheel	77½ inches	78 inches
Overall width	89⅝ inches	89⅝ inches
Turning radius	9 ft. 3 in.	9 ft. 7 in.
Wheelbase	81½ or 92¾ inches	89 or 100¼ inches
Crop clearance	Adjustable front axle 20.3 inches, rear axle housing 25.2 inches, rear axle 26.1 inches	Adjustable front axle 22.9 inches, rear axle housing 27.1 inches, rear axle 28.1 inches
Drawbar clearance	Regular, 15.9 inches; wide swing, 15.8 inches	

*Based on tractor with average field service equipment. Add 260 pounds for Power Shift on "3020"; add 320 pounds for "4020."





The 143 H. P.* 5020 Diesel ... World's Most Powerful Standard Tractor

For really big power, no other standard tractor can match the John Deere "5020" Diesel. Here is 143 h.p.* . . . flexible horsepower that you can point accurately and economically at any big job that needs doing. You can work truly king-sized equipment at uniform fast pace that makes

stubborn soils take a back seat. You'll make the best use of time, man power, and sunshine. Night shifts may well become a memory and quite likely you can eliminate some hired help, maybe even retire a tractor or two. Acreage expansion becomes a practical reality and weather gets trimmed down to size. Keeping jobs on schedule the "5020" way helps insure bigger yields, more money in the bank.

With the "5020" Diesel, you have three modern, cost-cutting John Deere Standard Tractors from which to choose. You can match your acreage with a tractor that's powered and equipped to fit your most exacting requirements. Whichever model you choose — "3020," "4020," or "5020" — you're assured of traditional John Deere quality and extra value. Make a date with your John Deere dealer to drive a John Deere Standard Tractor soon.

*Manufacturer's Rating, Engine with Standard Accessories, SAE Corrected Flywheel Horsepower.

JOHN DEERE

