

F

83 to 102 Engine HP

McCORMICK



# The *Fruit* of innovation.... ...the *Specialist* between the rows.

## Purpose-built Tractors

The McCormick F Series, available in either platform or cab configuration, represents a benchmark in the sector of specialized orchard tractors. Powered by reliable Perkins® 4-cylinder diesel engines, the range is comprised of two models to suit different applications.

*F model* for work in small-size, narrow-row orchards

*GE model* for work in low profile and canopy orchards



## New Family Styling

The latest generation of F Series tractors boasts the same features and family styling found in other McCormick tractors. The modern, aggressive look compliments the high level of quality and capability that is engineered into this purpose-built tractor.

## Perkins® Diesel Engines

The entire F Series is powered by the Perkins 1104D-44T 4-cylinder clean diesel engine that displaces 4.4 liters and complies with EPA emissions regulations. Boasting a turbocharger and mechanical direct fuel injection, these powerplants generate high power and torque to pull through tough conditions while maintaining excellent fuel economy. The three models generate 83, 93, and 102 engine horsepower respectively.

The tilting hood raises up to provide excellent access to the engine compartment for easy maintenance and service. A 17 gallon (64 liter) fuel tank ensures long run times in between fuel stops.



## 4wd Front Axle

The McCormick F Series features a narrow-width 4wd front axle that is specifically designed to operate in the confines of orchards and specialized farming operations. Built in-house by McCormick, the robust front axle has a solid cast steel design with outboard planetary final drives to handle tough conditions. Hydrostatic power steering with a 55 degree steering angle provides excellent maneuverability. The four wheel drive engages electronically

for maximum traction, and integrated front axle brakes activate with the rear brakes to ensure maximum stopping power when both brake pedals are applied.

## Choice of Transmissions

Customers can choose how to equip an F Series tractor to meet the needs of a specific application. The proven 15-speed gearbox features 5 synchronized gears and 3 ranges that shift mechanically via levers near the operator. A synchronized mechanical shuttle provides simple, reliable, economical operation.

An upgrade to the hydraulic power shuttle with 2-speed power shift provides 30 forward and 30 reverse speeds for greater versatility. Shuttle modulation control allows the operator to adjust how quickly the tractor changes direction for customized performance. The power shift feature provides true shift-under-load capability with the press of a button to quickly react to changing conditions. A de-clutch button in the main gear shift lever makes for easy shifting through the five gears without using the foot clutch.

Creeper is available to provide low ground speed operation with high engine RPM for specialty applications.

## Rear 3-point Hitch and PTO

An ASABE Category 2 rear 3-point hitch operates mechanically to provide a maximum lifting capacity of over 5,700 lbs (2600 kg) for handling large mounted implements. Controls integrated into the right hand console allow for both position and draft sensing operation. Electronic lift control is available on cab models.

To power rear implements, the F Series tractors incorporate a 540/540e RPM rear PTO as standard equipment. The PTO engages mechanically with a simple hand lever just below the front dash.

Tractors equipped with the power shuttle transmission have the option of a 540/1000 RPM PTO system with hydraulic wet clutch that engages the rear PTO shaft with the press of a button.



## Top Performance Hydraulics for Maximum Flexibility

The F Series tractors let the customer choose the configuration of the hydraulic system and valve layout to fit the highly specialized orchard market. The versatility of the open center system turns these tractors into a hydraulic power station, able to manage a wide range of implements.

- Double pump: The standard double pump configuration provides up to 21.7 gpm (82 lpm) of total hydraulic flow. One pump is dedicated to the steering system, while the second pump delivers 13.7 gpm (52 lpm) to the remote valves.
- Triple pump: The optional triple pump brings the total system flow up to 26.4 gpm (100 lpm) for extreme hydraulic demands.

Two rear remote valves are standard equipment on every tractor. However, a customer can configure an F Series tractor with up to five remote valves and eight sets of quick-connect couplers for maximum versatility.



## Specialized, Deluxe Cab

The most outstanding feature of the F Series is the all-round visibility of the deluxe cab thanks to the 4-post cabin structure and all-glass doors. Built using modern composite materials of automotive design, the interiors are stylish and features ergonomically placed controls for easy reach and operation. An HVAC system installed in the roof filters the air for a clean, comfortable environment. Available air suspended seat further enhances operator comfort for long days working in the orchards.

The open station machine offers plenty of comfort as well, with an adjustable suspended seat and similar layout of controls. The mid-mounted ROPS folds forward to enhance visibility and implement connection while allowing the machine to operate under low canopies or in height restricted spaces.

Tractor Model	F 90		F 100		F 110		
	F	GE	F	GE	F	GE	
<b>Engine</b>							
Max. Engine HP (ISO)	HP (kW)	83 (62)		93 (69)		102 (76)	
Max. PTO HP (ISO)	HP (kW)	70 (52)		78 (58)		86 (64)	
Max. Engine Torque	lb ft (Nm)	260 (192) @ 1400 RPM		290 (214) @ 1400 RPM		307 (226) @ 1400 RPM	
Engine Type	Perkins 1104D-44T 4-cylinder turbocharged direct injection diesel engine						
Engine Size / Fuel Tank Capacity	4.4 Liter 4-cylinder / 17 gallons (64 liters)						
<b>Drive Train</b>							
Standard Transmission	15x15 mechanical main gear box; 5 synchronized gears and 3 ranges; 25 mph (40 kph) capable						
Transmission Options	Creeper gear; 2-speed power shift						
Shuttle Type	Mechanical synchronized shuttle standard; hydraulic power shuttle optional						
Clutch Type	Dry dual disc clutch (synchro shuttle); wet multi-disc clutch (power shuttle)						
Rear Axle	Solid cast steel housing; outboard planetary final drives; heavy duty wet multi-disc brakes						
Differential Lock	Front and rear fully locking differentials; electronic control; hydraulic engagement						
4wd Front Axle	Electro-hydraulic engagement with integrated front axle brakes						
<b>Hydraulics, 3-point Hitch, PTO</b>							
Standard Hydraulic System (Double Pump)	gpm (lpm)	Dedicated steering pump 7.9 (30); implement pump 13.7 (52)					
Optional Hydraulic System (Triple Pump)	gpm (lpm)	Dedicated steering pump 7.9 (30); twin implement pumps totaling 18.5 (70)					
Remote Valves	2 standard; up to 5 available; up to 8 sets of quick couplers with splitter pipes						
Rear 3-point Hitch	Category 2; 5,730 lb (2600 kg) lift capacity; mechanical control std; electronic control opt (cab only); fixed ball ends						
Rear PTO	540 / 540e standard; 540 / 1000 optional; ground speed PTO optional						
<b>Operator's Area</b>							
Open Operators Station	Isolation-mounted platform; rubber-coated foot deck; suspended vinyl seat; foward-folding ROPS						
Cab (not available in GE Configuration)	Isolation-mounted 4-post structure; 2 glass doors; rubber-coated foot deck; HVAC; optional air-suspended seat						
Tractor Wheel and Tire Equipment		280/70R16 front; 14.9R24 rear	260/70R16 front; 14.9LR20 rear	280/70R16 front; 14.9R24 rear	260/70R16 front; 14.9LR20 rear	280/70R16 front; 14.9R24 rear	260/70R16 front; 14.9LR20 rear
Wheelbase	in (mm)	84 (2134)	84 (2134)	84 (2134)	84 (2134)	84 (2134)	84 (2134)
Height over Steering Wheel	in (mm)	57.1 (1450)	51.2 (1300)	57.1 (1450)	51.2 (1300)	57.1 (1450)	51.2 (1300)
Height over ROPS	in (mm)	86.1 (2187)	84.6 (2150)	86.1 (2187)	84.6 (2150)	86.1 (2187)	84.6 (2150)
Height over Cab	in (mm)	88.6 (2250)	N/A	88.6 (2250)	N/A	88.6 (2250)	N/A
Minimum Overall Width	in (mm)	52 (1320)	56.5 (1435)	52 (1320)	56.5 (1435)	52 (1320)	56.5 (1435)
Ground Clearance	in (mm)	10.5 (267)	9.1 (231)	10.5 (267)	9.1 (231)	10.5 (267)	9.1 (231)
Base Weight ROPS [+285 lb (130 kg) for Cab]	lb (kg)	6,272 (2845)	5,600 (2540)	6,272 (2845)	5,600 (2540)	6,272 (2845)	5,600 (2540)

## McCormick North America

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