

+ DESIGN

- New cab roof.
- New control console.
- New design of hood, front grille and headlights

+ OPTIONS

- New hydraulic features.
- Front lift and PTO.
- Pneumatic cloth seat.



specialist needs in an increasingly more professional way.

An improved PTO engagement, a more precise adjustment of power lift sensitivity, the availability of front power lift and PTO as well as new hydraulic options underscore the evolution of this range.

Thanks to its innovating features the F series, available in both cab and platform versions, is an outstanding all-round performer providing maximum reliability, utmost versatility and excellent manoeuvrability in any soil condition, in any specialized crop, with any sort of implements. A reduced steering radius further enhances performance and productivity where space is at a premium.

The new F series has been completely renovated to offer three different

transmissions combined with a variety of transaxle, front and rear axles solutions and different wheelbase and track dimensions.

The series comes in three models designed for specific applications:

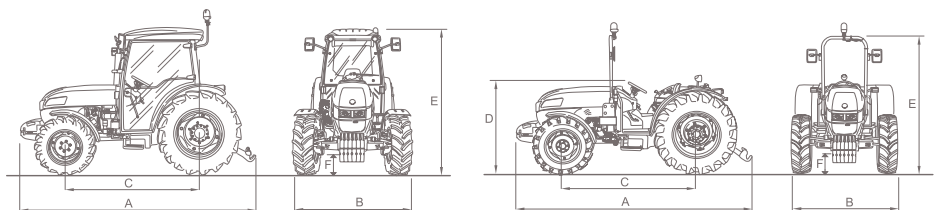
- > F model (narrow orchard) ideal for work in small-sized orchards.
- > GE model (low orchard) ideal for work in low orchard plantations.
- > XL model (large orchard) for use in standard orchards and in open field.

The new F series, besides featuring new avant-garde technologies and additional options, are also equipped with new Tier3-compliant 3- and 4-cylinder turbo, after-cooler *Perkins* engines. A product range combining performance, reliability, comfort and design. This is the great strength of McCormick F (T3) series.

		F 80 F-GE-XL			F 85 F-GE		F 90 F-GE-XL			F 100 F-GE-XL			F 110 F-GE-XL		
		SYNCHRO POWER SHUTTLE			SYNCHRO POWER SHUTTLE		SYNCHRO POWER SHUTTLE			SYNCHRO POWER SHUTTLE			SYNCHRO POWER SHUTTLE		
ENGINE															
PERKINS "TIER3" DIRECT-INJECTION ENGINE		1104D-44			1103D-33TA		1104D-44T			1104D-44TA			1104D-44TA		
MAX. POWER (ISO)	HP/KW	74/54,5			79/58		83/61			92,5/68			102/75		
MAX. TORQUE	NM	261			310		352			393			416		
DISPLACEMENT	CMS	4400/4			3300/3		4400/4			4400/4			4400/4		
FUEL TANK CAPACITY STD F-GE	LT	43 + (25 opt)			43 + (25 opt)		43 + (25 opt)			43 + 25			43 + 25		
FUEL TANK CAPACITY STD XL	LT	65 + (25 opt)			65 + (25 opt)		65 + (25 opt)			65 + 25			65 + 25		
CLUTCH															
INDEPENDENT DRY DUAL CLUTCH	IN.	11			11		11			12			12		
MECHANICALLY OPERATED		●			●		●			●			●		
MULTI-DISC WET CLUTCH		●			●		●			●			●		
DECLUTCH CONTROL: BUTTON-OPERATED CLUTCH		●			●		●			●			●		
TRANSMISSION															
SPEED FOUR+MECH. REV. SHUTTLE: 12FWD+12REV		E-LINE EDITION			E-LINE EDITION		E-LINE EDITION			-			-		
SPEED FOUR+CREEPER+MECH.REV. SHUTTLE: 16FWD+16REV		TECHNO EDITION			TECHNO EDITION		E-LINE EDITION			-			-		
REAR ELECTROHYDRAULIC DIFF-LOCKS		E-LINE EDITION			E-LINE EDITION		E-LINE EDITION			-			-		
SPEED FIVE + MEC. INVER.: 15AV+15RM		●			●		●			●			●		
SPEED FIVE + SUPERID. + MEC. INVER.: 20AV+20RM		○			○		○			○			○		
POWER FIVE + SPEED FIVE 30AV+30RM		○			○		○			○			○		
POWER FIVE + SPEED FIVE + SUPERID. 40AV+40RM		○			○		○			○			○		
REVERSE POWER SHUTTLE: UNDER LOAD		●			●		●			●			●		
POWER TAKE-OFF															
MECHANICALLY OPERATED		E-LINE EDITION			E-LINE EDITION		E-LINE EDITION			-			-		
POWER ASSISTED MECHANICAL ENGAGEMENT		●			●		●			●			●		
OIL-IMMERSED MULTI-DISC HYDRA P.T.O		●			●		●			●			●		
ELECTROHYDRAULIC CONTROL		●			●		●			●			●		
2 SPEEDS 540/750 RPM		●			●		●			●			●		
2 SPEEDS 540/1000 RPM		○			○		○			○			○		
NET PTO POWER (ISO)	HP/KW	63/46,5			68/50		70/51,5			77,5/57			85,5/63		
4WD FRONT AXLE															
ELECTROHYDRAULIC 4WD ENGAGEMENT		●			●		●			●			●		
MAX. STEERING ANGLE		55°			55°		55°			55°			55°		
TWIN-LOCK ELECTROHYDRAULIC DIFF-LOCKS		●			●		●			●			●		
LIMITED SLIP DIFF-LOCKS		E-LINE EDITION			E-LINE EDITION		E-LINE EDITION			-			-		
BRAKES															
OIL-IMMERSED GRAPHITE-COATED REAR BRAKES, 8 DISCS		●			●		●			●			●		
OIL-IMMERSED GRAPHITE-COATED FRONT BRAKES, 4 DISCS		●			●		●			●			●		
IBS - INTEGRAL BRAKING SYSTEM		●			●		●			●			●		
4 WD AUTOMATIC ENGAGEMENT ON BRAKING		E-LINE EDITION			E-LINE EDITION		E-LINE EDITION			-			-		
HYDRAULIC POWER LIFT															
MECHANICALLY OPERATED		●			●		●			●			●		
ELECTRONICALLY OPERATED (ONLY CAB VERSION)		○			○		○			○			○		
MAX. LIFT CAPACITY	KG	2600			2600		2600			2600			2600		
HYDRAULIC FLOW @ REMOTE	L/MIN	52,3+29,9			52,3+29,9		52,3+29,9			52,3+29,9			52,3+29,9		
CAT. 2 THREE-POINT LINKAGE		●			●		●			●			●		
AUXILIARY VALVES STD F/GE/XL	°	2 / 2 / 3			2 / 2		2 / 2 / 3			2 / 2 / 3			2 / 2 / 3		
FLOW DIVERTER		○			○		○			○			○		
POMPA TRIPLA + 3 DISTRIB. ANTER. + JOYSTICK		○			○		○			○			○		
CAB AND DRIVING SEAT															
DELUXE CAB / AUTO-RADIO FITTING FACILITIES		●			●		●			●			●		
HEATING / VENTILATION		●			●		●			●			●		
AIR-CONDITIONING		○			○		○			○			○		
SUSPENDED PLATFORM		●			●		●			●			●		
DIMENSIONS AND WEIGHTS															
FRONT TYRES 4RM		280/70R16 260/70R16 750-18			280/70R16 260/70R16		280/70R16 260/70R16 750-18			280/70R16 260/70R16 750-18			280/70R16 260/70R16 750-18		
REAR TYRES		14.9R24 14.9LR20 14.9R24			14.9R24 14.9LR20		14.9R24 14.9LR20 14.9R24			14.9R24 14.9LR20 14.9R24			14.9R24 14.9LR20 14.9R24		
A - MIN. LENGTH 2RM E 4RM	MM	4009	4009	4009	3009	3009	4009	4009	4009	4009	4009	4009	4009	4009	4009
B - MIN. WIDTH	MM	1319	1435	1479	1319	1435	1319	1435	1479	1319	1435	1479	1319	1435	1479
C - WHEELBASE 2RM	MM	2174	-	-	2065	-	2174	-	-	2174	-	-	2174	-	-
C - WHEELBASE 4RM	MM	2134	2134	2134	2017	2017	2134	2134	2134	2134	2134	2134	2134	2134	2134
D - HEIGHT TO STEERING WHEEL	MM	1450	1300	1450	1450	1300	1450	1300	1450	1450	1300	1450	1450	1300	1450
E - HEIGHT TO SAFETY FRAME	MM	2186	2150	2286	2186	2150	2186	2150	2286	2186	2150	2286	2186	2150	2286
E - HEIGHT OVER CAB	MM	2250	-	2250	2250	-	2250	-	2250	2250	-	2250	2250	-	2250
F - GROUND CLEARANCE 4RM	MM	265	230	265	265	230	265	230	265	265	230	265	265	230	265
WEIGHT 2WD (WITHOUT BALLAST) + (130 KG CAB)	KG	2615	-	-	2500	-	2615	-	-	2615	-	-	2615	-	-
WEIGHT 4WD (WITHOUT BALLAST) + (130 KG CAB)	KG	2845	2540	2865	2675	2370	2845	2540	2865	2845	2540	2865	2845	2540	2865

Key: ● standard ○ option - not available

N.B.: all other data not included in this table are the same for both the **E-LINE** and **SYNCHRO SHUTTLE** versions of the 80, 85 and 90 F, GE and XL models. The **E-LINE** versions of the 100 and 110 F, GE and XL models are not included in the price list.



NEW

80-85-90-100-110 (T3)

F

F | GE | XL




McCORMICK

+ COMFORT

New control levers, new pedals, new control valve joystick.

New steering wheel improved cab pressurization for lower noise level.

Enhanced rear visibility for safer implement operation.



+ PERFORMANCE

New Turbo Aftercooler Perkins engines.

+ PRODUCTIVITY

steering radius reduced by 20%.

McCormick F (T3), the true specialist.

The new F (T3) series brings to the market a new generation of specialists par excellence. The whole range has been completely renovated to provide ultimate performance, improved ergonomics, maximum comfort and unequalled safety. The renovation work consists in a redesigned cab roof, a tilting hood restyling with integrated nicely shaped headlights, and a complete re-vamping of the cockpit, where a new and more ergonomic control layout provides maximum roominess for the operator, thus responding to

ENGINE

The 1103D and 1104D 3- and 4-cylinder *Perkins* engines fitted on the new F (T3) series have been purposely designed for agricultural applications. They feature modern conception and avant-garde technical solutions responding to the most demanding market needs. Quiet, environment-friendly and fuel efficient the new engines comply with Tier 3 standards governing the emissions into the environment. The F series comes with 5 engine models delivering 74 (naturally aspirated), 83 (turbo), 79, 92,5 and 102 HP/ISO (turbo after-cooler). Thanks to particular technological innovations these engines ensure optimum fuel-to-air-mix ratios resulting in better combustion, enhanced efficiency thus providing outstanding performance and torque backup at lower running costs. The fully-tilting hood provides easy access to the engine for routine service and daily maintenance. (fig. A).

FRONT AXLE

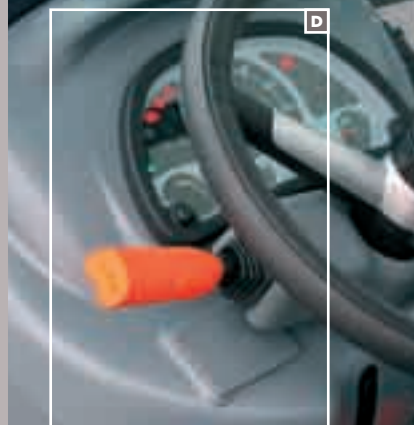
The *McCormick* F series offers a choice of two 4WD axles: narrow for the F and F-GE models and large for the F-XL model. The 4WD front axle features avant-garde technical solutions with central transmission, "HYDRA-LOCK" type differential lock and hydraulic engagement of four-wheel-drive. The improved overall dimensions at the engine area and the 18", 16" tyre size adopted on these models have made it possible to reduce the steering radius by 20% thus ensuring excellent manoeuvrability on headlands. The oil-bath disc brakes, combined with the action of the rear brakes, ensure effective integral braking on all four wheels (fig. B). A 2WD front axle is also available for the "F" model.

TRANSMISSION

The new *McCormick* F series comes with three different transmission versions: two mechanical versions: *Speed Four* (4 speed gears 12FWD+12RV) and *Speed Five* (5 speed gears 15FWD+15RV) with mechanical reverse power shuttle. The third version is hydraulically controlled: *PowerFive* (with 5 basic speeds + splitter gear with HI-LO electro-hydraulic engagement for 20% speed reduction to achieve 30FWD+30RV) and hydraulic reverse power shuttle. The *PowerFive* transmission enables the number of gears of the basic transmission to be doubled by using the green pushbutton integrated in the gearshift lever (fig. C). The *De-clutch control* (orange pushbutton integrated on the gearshift lever) (fig. C). and the *Reverse Power Shuttle* (lever located under the steering wheel) (fig. D). enable clutch-less engagement and reversal of all gears. On all versions the transmission can be optionally integrated with a creeper.

DASHBOARD

The stylish dashboard features digital instruments allowing simple and fast reading of all information necessary for a proper tractor driving and correct implement utilization. The dashboard is further equipped with an on-board computer for calculation of the worked surface area. (fig. E)







**McCormick F (T3) series,
the fruit of innovation.**

POWER TAKE-OFF

The 1³/₈ PTO offers two basic speeds: 540/750 rpm or 540/1000 rpm. (optional) The oil bath disc clutch, operated by a hydraulic pushbutton (P) enables smooth and progressive engagement of the PTO, preventing abrupt starting of the shaft for maximum comfort. (fig. F).

TWIN LOCK AND ELECTRO-HYDRAULIC 4WD ENGAGEMENT

The simultaneous lock of the rear and front wheel differentials and the engagement of the four-wheel drive are electro-hydraulically operated by a pushbutton (fig.F)

NEW ELECTRONIC POWER LIFT FOR F, AND F-XL MODELS WITH CAB

Thanks to easy-to-read and ergonomically arranged controls and to a dashboard (fig. G) incorporating all main functions and regulations (fig. F), the new electronic power lift makes it possible to use implements with the utmost ease and comfort. A better and more precise adjustment of power lift sensitivity further enhances operation control and accuracy.

Two buttons on both mudguards allow the power lift to be controlled from the ground, allowing implements to be hitched in a fast and fully safe way. Equipped with a cat. 2 three-point linkage, the power lift ensures a maximum lifting capacity of 2600 kg. (fig .H)

HYDRAULIC SYSTEM

The *hydraulic system* is powered by a double pump providing a maximum total flow of 82 l/min. The system comes as standard with 2 single- and double-acting auxiliary control valves (including a floating one) on the F and F-GE model, and with 3 on the F-XL version. The system can be optionally equipped with an electro-hydraulically controlled three-ways flow divider operated by a lever (L) fitted on the R.H. console incorporating three pushbuttons (Fig. G). According to the button being selected, it can alternatively operate the hydraulic levelling ram, the hydraulic top link or one control valve. As an alternative, a triple pump with 3 front auxiliary valves controlled by a joystick can be fitted on request to operate the front implements. Easily accessible high-quality quick-release rear couplings ensure optimum comfort of operation and improved tractor productivity (Fig. I).

NEW CAB

The first thing an operator can appreciate when getting into a F series is the all-round visibility of the "DELUXE" cab provided by the all-glass side doors hinged onto the rear post. The interiors, completely redesigned, stylish and accurately finished, are mainly made of modern composite materials featuring an automotive design. Control layout has been further improved to provide more living-space for the operator. The pneumatic seat, the new height adjustable steering wheel further enhance tractor manoeuvrability thus making driving a pleasure. The pressurised cab, featuring an improved ventilation/heating and air-conditioning system installed on the cab roof and integrated by a filter designed to purify the air inside the cab, ensures maximum comfort for the driver in terms of safety and health. Natural ventilation is ensured by openable front and rear windscreens. The driving area of the platform version has also been revamped according to the same standards adopted on the cab models. (fig.L)

