

+ DESIGN

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

+ OPTIONS

Pneumatic cloth seat.

New hydraulic features:

- Control valve with electro-hydraulically controlled three-ways flow divider.
- Double pump with 1 front spool valve activated by relevant knob.
- Triple pump with 3 front spool valves controlled by joystick.
- Split rear and front hydraulic taps.
- Utmost hydraulic flexibility, with possibility of offering up to 5 outlet packs at the front and 5 at the rear.



specialist needs in an increasingly more professional way.

An improved PTO engagement, a more precise adjustment of power lift sensitivity, 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:

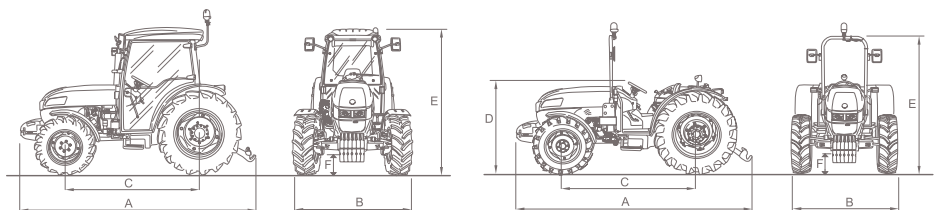
- > F model (narrow orchard) ideal for work in small-sized orchards.
- > GE model (low orchard) ideal for work in low orchard plantations.
- > XL model (large orchard) for use in standard orchards and in open field.

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 70 F-GE		F 80 F-GE-XL		F 85 F-GE		F 90 F-GE-XL		F 100 F-GE-XL			F 110 F-GE-XL			F 120 F-GE-XL			
	SYNCHRO SHUTTLE	POWER SHUTTLE	SYNCHRO SHUTTLE	POWER SHUTTLE	SYNCHRO SHUTTLE	POWER SHUTTLE	SYNCHRO SHUTTLE	POWER SHUTTLE	SYNCHRO SHUTTLE	POWER SHUTTLE	SHUTTLE	POWER SHUTTLE	SHUTTLE	POWER SHUTTLE	SHUTTLE	POWER SHUTTLE		
ENGINE																		
PERKINS "TIERS" DIRECT-INJECTION ENGINE	1103D-33TA		1104D-44		1103D-33TA		1104D-44T		1104D-44TA			1104D-44TA			1104D-44TA			
MAX. POWER (ISO)	HP/KW	68/50	74/54,5		79/58		83/61		92,5/68			102/75			110,2/81			
MAX. TORQUE	NM	280	261		310		352		393			416			410			
DISPLACEMENT	CM3	3300/3		4400/4		3300/3		4400/4		4400/4			4400/4			4400/4		
FUEL TANK CAPACITY STD F-GE	LT	40 + (25 opt)		40 + (25 opt)		40 + (25 opt)		65		65			65			65		
FUEL TANK CAPACITY STD XL	LT	57 + (25 opt)		57 + (25 opt)		57 + (25 opt)		82		82			82			82		
CLUTCH																		
INDEPENDENT DRY DUAL CLUTCH	IN.	11		12		11		12		12			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		E-LINE EDITION		-			-			-		
SPEED FOUR+CREEPER+MECH.REV. SHUTTLE: 16FWD+16REV		E-LINE EDITION		E-LINE EDITION		E-LINE EDITION		E-LINE EDITION		-			-			-		
REAR ELECTROHYDRAULIC DIFF-LOCKS		E-LINE EDITION		E-LINE EDITION		E-LINE EDITION		E-LINE EDITION		-			-			-		
SPEED FIVE + MEC. INVERS.: 15AV+15RM		●		●		●		●		●			●			●		
SPEED FIVE + SUPERID. + MEC. INVERS.: 20AV+20RM		○		○		○		○		○			○			○		
POWER FIVE + SPEED FIVE 30AV+30RM		○		○		○		○		○			○			○		
POWER FIVE + SPEED FIVE + SUPERID. 40AV+40RM		○		○		○		○		○			○			○		
REVERSE POWER SHUTTLE: UNDER LOAD		●		●		●		●		●			●			●		
POWER TAKE-OFF																		
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	58/42,5		63/46,5		68/50		70/51,5		77,5/57			85,5/63			92,5/68		
4WD FRONT AXLE																		
ELECTROHYDRAULIC 4WD ENGAGEMENT		●		●		●		●		●			●			●		
MAX. STEERING ANGLE		55°		55°		55°		55°		55°			55°			55°		
TWIN-LOCK ELECTROHYDRAULIC DIFF-LOCKS		●		●		●		●		●			●			●		
LIMITED SLIP DIFF-LOCKS		E-LINE EDITION		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		E-LINE EDITION		-			-			-		
HYDRAULIC POWER LIFT																		
MECHANICALLY OPERATED		●		●		●		●		●			●			●		
ELECTRONICALLY OPERATED (ONLY CAB VERSION)		○		○		○		○		○			○			○		
MAX. LIFT CAPACITY	KG	2600		2600		2600		2600		2600			2600			2600		
ADDITIONAL CAPACITY WITH 1 AUXIL. CYLINDER (ONLY FOR XL MOD.)	KG	-		+ 650		-		+ 650		+ 650			+ 650			+ 650		
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			52,3+29,9			52,3+29,9		
CAT. 2 THREE-POINT LINKAGE		●		●		●		●		●			●			●		
AUXILIARY VALVES STD F/GE/XL	N°	2 / 2		2 / 2 / 3		2 / 2		2 / 2 / 3		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	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	14.9L R20	14.9R24	14.9L R20	14.9R24	14.9R24	14.9L R20	14.9R24	14.9R24	14.9R24	14.9R24	14.9L R20	14.9R24	14.9R24	14.9R24	14.9R24	
A - MIN. LENGTH 2RM E 4RM	MM	3900	3900	4009	4009	4009	3900	3900	4009	4009	4009	4009	4009	4009	4009	4009	4009	
B - MIN. WIDTH	MM	1437	1413	1437	1413	1554	1437	1413	1437	1413	1554	1437	1413	1554	1437	1413	1554	
C - WHEELBASE 2RM	MM	2065	-	2174	-	-	2065	-	2174	-	-	2174	-	-	2174	-	-	
C - WHEELBASE 4RM	MM	2017	2017	2134	2134	2134	2017	2017	2134	2134	2134	2134	2134	2134	2134	2134	2134	
D - AHEIGHT TO STEERING WHEEL	MM	1440	1300	1440	1300	1440	1440	1300	1440	1300	1440	1440	1300	1440	1440	1300	1440	
E - HEIGHT TO SAFETY FRAME	MM	2315	2150	2315	2150	2315	2315	2150	2315	2150	2315	2315	2150	2315	2315	2150	2315	
E - HEIGHT OVER CAB	MM	2260	-	2260	-	2260	2260	-	2260	-	2260	2260	-	2260	2260	-	2260	
F - GROUND CLEARANCE 4RM	MM	220	190	220	190	240	220	190	220	190	240	220	190	240	220	190	240	
WEIGHT 2WD (WITHOUT BALLAST) + (130 KG CAB)	KG	2500	-	2615	-	-	2500	-	2615	-	-	2615	-	2615	-	2615	-	
WEIGHT 4WD (WITHOUT BALLAST) + (130 KG CAB)	KG	2675	2480	2845	2540	2865	2675	2480	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 70, 80, 85 and 90 F, GE and XL models. The E-LINE versions of the 100, 110 and 120 F, GE and XL models are not included in the price list.



NEW

70-80-85-90-100-110-120 (T3)

F

F | GE | XL




McCORMICK

+ COMFORT

- Much more silent pressurized cab.
- New control levers, new pedals, new joystick for spool valves control, new steering wheel.
- Enhanced rear visibility for safer implement operation.

+ PERFORMANCE

- Increasingly more accurate adjustment of power lift sensitivity.

New Turbo Aftercooler Perkins engines:

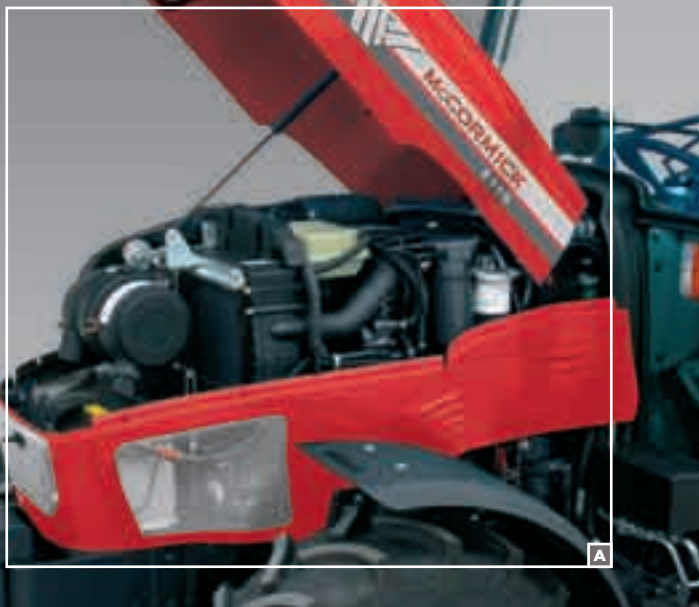
- More powerful range top model: 110,2 HP.
- More comprehensive and more powerful tractor range.

+ PRODUCTIVITY

- R20% tighter steering radius.

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 7 engine models delivering 74 (naturally aspirated), 83 (turbo), 68, 79, 92,5, 102 and 110 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. (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 re-vamped according to the same standards adopted on the cab models. (Fig. L)

