

**NEW**

# 7 Series-T4i

**175 - 190 - 215**



***Landini***





New **7 Series T4i**:  
all-round innovation.

The new 7 Series Tier 4i by Landini stands for innovation. Designed with uncompromising comfort, performance and productivity in mind, this tractor range is tailored to meet the needs of the most demanding customers, allowing operators to handle the toughest jobs with ease, whether in the field or on the road.

The three models in the range are powered by the new "F.P.T. NEF 6 CYL CR TAA" 24-valve, six-cylinder turbo engines with Common Rail injection system. Featuring the "Dual Power" system to provide additional power for road and PTO applications, these engines deliver plenty of torque making for high flexibility and pulling power. They are located within a rugged chassis which helps reduce noise and vibration levels within the cab and meet Tier 4 Interim emission regulations using the SCR system, an exhaust gas after-treatment technology that reduces exhaust emission without compromising engine performance.

The "Roboshift" transmission with 24 speeds in six ranges offers a four-speed on-the-go powershift and incorporates electro-hydraulic range shifting and a left-hand steering-column power shuttle. The transmission is controlled electronically via pushbuttons located on the multi-function armrest and features an "Autoshift" function, ensuring easier operation in the field or during transport operations. A creep speed unit is available as an option for those tasks requiring slow speeds such as harvesting or specialist seed bed preparation.

The electro-hydraulically engaged rear PTO features an exchangeable shaft providing 6 or 21 splines and offers four speeds 540/540E/1000/1000E rpm. The electronic control of the PTO always ensures smooth and modulated implement start-up, thereby enhancing operator comfort and reducing maintenance needs.

The closed-centre hydraulic system incorporates advanced features to deliver high efficiency and maximum reliability. The system is equipped with a variable-displacement pump that provides a flow rate of 123 l/min to operate all hydraulic functions and up to six electro-hydraulic remote valves.

The electronically-controlled rear hitch with draft sensing on the lower links provides a maximum lift capacity of 9300 Kg and allows a precise control of the implement. A radar sensor is also available for operations where true ground speed is required, this can also be used in difficult ground conditions to improve tractive performance and reduce wheel slip.

True versatility can be obtained with a front hitch capable of lifting up to 3500 Kg and a front PTO. The front axle, either rigid-mounted or with electronically-controlled independent suspensions, offers a 55° steering angle, providing excellent manoeuvrability in confined spaces.

The "Lounge Cab" is a true high-tech lounge designed to offer the operator a functional and ergonomic environment with logically-arranged controls for maximum comfort and ease of operation. The interior features a high-quality, automotive-grade fit and finish that further enhances the operator comfort.

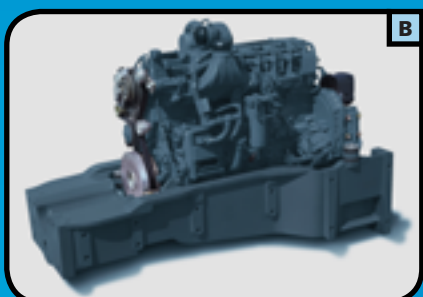




## TIER T4i FTP-NEF ENGINES WITH SCR SYSTEM

The three models of the new 7 Series T4i are powered by the "FPT-NEF" 6.7L, 24-valve, 6-cylinder turbo engines with common rail injection system which provide power ratings from 165 to 212 Hp. The optimised electronic fuel injection and the enhanced combustion efficiency, combined with the SCR (*Selective Catalyst Reduction*) system, allow these engines to deliver increased horsepower with over 40% torque backup, while reducing fuel consumption. They also feature the "Dual Power" system which automatically delivers extra power and torque to handle tough conditions and heavy loads, while maintaining speed and productivity. The tilt-up hood opens wide to provide easy access to the engine compartment for routine service and maintenance. The coolers located in front of the radiator open fully from a single latch to provide easy cleaning in dusty conditions. (fig. A)

# New T4i 7



### ENGINE CHASSIS

The new 7 Series tractors feature a rugged chassis with shock absorbing rubber mounts which support the engine helping to effectively reduce noise and vibration levels within the cab. (fig. B)

### INDEPENDENT FRONT SUSPENSION

The 7 Series can be equipped with an electronically-controlled independent front suspension that allows faster travel speeds, better traction and excellent manoeuvrability, whether in the field or on the road, thereby improving operator comfort, safety and productivity. (fig. C)

# Series



## KEY FEATURES AND BENEFITS

- › ENGINE COMPLIANT WITH TIER 4 INTERIM EMISSION REGULATIONS
- › ELECTRONIC FUEL INJECTION AND TURBO INTERCOOLER
- › POWER MANAGEMENT WITH DUAL POWER SYSTEM
- › EXHAUST GAS AFTER-TREATMENT WITH SCR CATALYTIC CONVERTER
- › ENGINE HOUSED WITHIN CHASSIS
- › LARGE, EASY-FILL FUEL TANK
- › COOLERS OPEN OUT TO ALLOW EASIER AND FASTER CLEANING
- › ALL TRANSMISSION CONTROLS GROUPED ON A SINGLE JOYSTICK
- › 40 FORWARD SPEEDS + 40 REVERSE SPEEDS WITH OPTIONAL CREEPER
- › ROBOTIZED RANGE SHIFTING
- › AUTOSHIFT: AUTOMATIC SHIFTING THROUGH ALL POWERSHIFTS



### “ROBOSHIFT” TRANSMISSION FOR MAXIMUM VERSATILITY AND FLEXIBILITY

The “Roboshift” transmission features 24 speeds in six ranges with four powershift steps in each range. Incorporated is a robotised range shifting and hydraulic power shuttle providing 24 forward and 24 reverse speeds. In addition, a creep speed option provides 40 forward and 40 reverse speeds.

The transmission is controlled electronically via the buttons on the joystick controller integrated into the multi-function armrest. The “Autoshift” function allows the operator to automatically select the right gear in each range to suit load conditions on the engine, ensuring maximum ride comfort and safety and enhanced productivity. The multi-function controller incorporates our unique patented “My” button (P) that allows the operator to select and activate up to four different functions. (fig. D)



### POWER SHUTTLE AND DIGITAL INSTRUMENT PANEL

The 7 Series tractors are equipped with a reverse power shuttle that allows the operator to automatically shift from forward to reverse without use of the clutch pedal, by simply operating the shuttle control lever adjacent to the steering wheel. The shuttle response is electronically modulated and adjustable by the operator if required for different tasks. The digital instrument panel keeps the operator constantly informed on the tractor's performance. The instrument panel is designed to tilt with the steering wheel so it is always clearly visible. (fig. E)







## KEY FEATURES AND BENEFITS

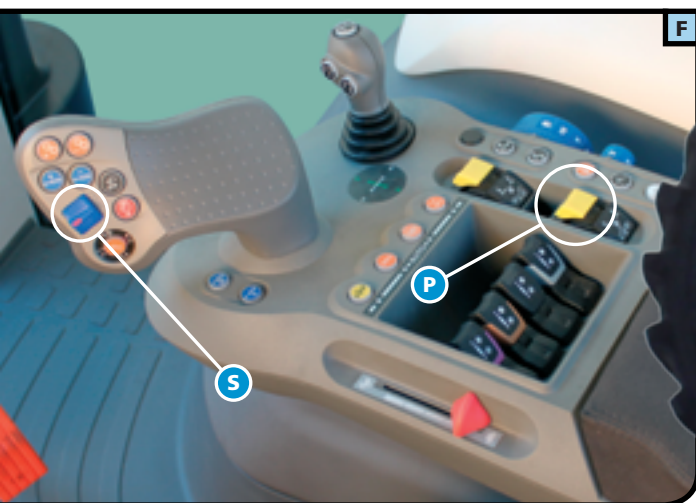
- › FOUR-POST CAB DESIGN WITH SPACIOUS FLAT-DECK PLATFORM
- › AIR-SUSPENSION SEAT AND INSTRUMENT PANEL TILTING WITH STEERING COLUMN
- › DRIVER'S ARMREST WITH INTEGRATED CONTROLS
- › COMFORTABLE HIDE-AWAY BUDDY SEAT
- › AUTOMATIC CLIMATE CONTROL
- › OPENING TRANSPARENT ROOF HATCH
- › HYDRAULIC CAB SUSPENSION (OPTIONAL)
- › CLOSED-CENTRE HYDRAULIC SYSTEM WITH VARIABLE DISPLACEMENT PUMP
- › ELECTRONICALLY-CONTROLLED REAR HITCH
- › 4-SPEED PTO
- › CONSTANT PTO POWER WITH THE DUAL POWER SYSTEM

### REAR PTO

The PTO offers four speeds: 1000, 1000Eco, 540 and 540Eco rpm. An electro-hydraulic push button (P) (fig. F) enables smooth and modulated engagement of the PTO clutch, ensuring a soft start-up of the implement. In addition, the "Dual Power" system automatically increases power available when the PTO is operational. This enables the engine to maintain a constant power as the load varies, allowing optimum use of the PTO for enhanced tractor performance and productivity.

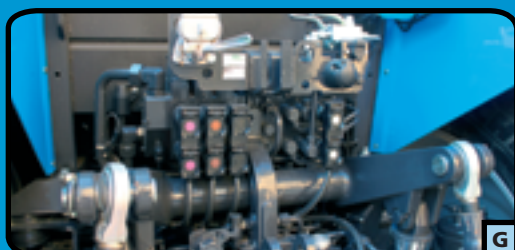
### ELECTRONIC HEADLAND MANAGEMENT SYSTEM

For operator convenience, the 7 Series tractors feature an "Auto" function that will automatically disengage and 4WD during headland turns. (fig. F)



### REMOTE VALVES

The 7 Series tractors can be fitted with up to six electro-hydraulically controlled double-acting remote valves. One valve is controlled by the multi-function controller and three are operated via fingertip controls integrated into the armrest which also includes a mini-joystick that operates the remaining two valves to control either a front hitch or a front loader. (fig. F)





### **“LOUNGE CAB”, A TRUE HIGH-TECH LOUNGE**

The “Lounge Cab” is a true technology lounge that allows the operator to work the tractor with maximum ease and comfort. Designed to offer a safe, stress-free working environment for long hours in the field, this four-post cab with flat-deck platform and rear-hinged doors offers easy access to the driving position and unequalled all-round visibility.

The air suspension seat features a multi-function armrest that houses the main tractor controls and the telescopic tilt-adjustable steering column is designed to tilt with the instrument panel. The cab is pressurized to keep a clean, dust-free environment and the highly-efficient automatic climate control maintains the desired cab temperature whatever the outdoor weather conditions. To further increase operator comfort, an electronically-controlled hydraulic cab suspension system is available as an option. The driving position is ergonomically designed and equipped with easy-to-use, logically-arranged controls. The cab interior features an automotive-style fit and finish and comes standard with radio with USB port, Bluetooth, MP3 player and four loudspeakers for the maximum comfort of operation. The cab is further equipped with modern and stylish interior and exterior LED lights. (fig. I)

### **HYDRAULIC SYSTEM AND ELECTRONICALLY-OPERATED REAR HITCH**

The closed-centre hydraulic system with variable-displacement pump provides a flow rate of 123 l/min to the hitch and remote valves, allowing for simultaneous operation of all hydraulic functions. With the raise/lower control (S) (fig. F) conveniently located on the multi-function joystick controller and the main settings integrated into the right-hand console, the rear hitch guarantees precise implement operation. Offering a maximum lift capacity of 9300 kg, the three-point hitch is Category III and is equipped with lower link draft sensing for accurate implement control. (fig. H)



### **“HIDE AWAY” BUDDY SEAT**

Passengers can also travel in comfort thanks to an innovative, upholstered buddy seat, which neatly folds away to allow easier and safer access to the cab. (fig. L)



		7-175 ROBOSHIFT	7-190 ROBOSHIFT	7-215 ROBOSHIFT
<b>ENGINE</b>				
TIER 4 INTERIM / STAGE 3B		NEF 6 CYL CR TAA	NEF 6 CYL CR TAA	NEF 6 CYL CR TAA
ELECTRONIC HIGH PRESSURE COMMON RAIL		●	●	●
TURBO/INTERCOOLER ARIA-ARIA		●	●	●
MAX. ENGINE POWER (ISO RATING)	HP/KW	165/121	175/129	188/138
MAX. ENGINE POWER WITH DUAL POWER (ISO RATING)	HP/KW	175/129	188/138	212/156
RATED ENGINE POWER ISO	HP/KW	151/111	166/122	175/129
RATED ENGINE SPEED	RPM	2200	2200	2200
MAX. TORQUE (WITH DUAL POWER)	MM	632 (726)	726 (810)	810 (867)
ENGINE RPM @ MAX. TORQUE (WITH DUAL POWER)	RPM	1.500 (1.500)	1.500 (1.500)	1.500 (1.500)
ENGINE RPM @ MAX. POWER (WITH DUAL POWER ) RPM	RPM	1.800 (1.800)	1.800 (1.800)	1.800 (1.800)
TORQUE RISE (WITH DUAL POWER)		41% (37%)	41% (45%)	37% (37%)
BORE / STROKE	MM	104 / 132	104 / 132	104 / 132
DISPLACEMENT (CM³) / NO. OF CYLINDERS / NO. OF VALVES		6.728 / 6 / 24	6.728 / 6 / 24	6.728 / 6 / 24
S.C.R. EXHAUST SYSTEM		●	●	●
CAPACITY ADBLUE	LITRES	38	38	38
FUEL TANK CAPACITY	LITRES	320	320	320
<b>CLUTCH</b>				
MULTI-DISC WET CLUTCH		●	●	●
<b>TRANSMISSION</b>				
ROBOSHIFT + POWER SHUTTLE: 24FWD+24REV (4 POWERSHIFT SPEEDS)		●	●	●
ROBOSHIFT + CREEPER + POWER SHUTTLE: 40FWD+40REV		○	○	○
ROBOTIZED RANGE SHIFTING (ELECTRONIC RANGE SHIFT)		●	●	●
ECO FORTY (40 KM/H) AT REDUCED ENGINE SPEED		●	●	●
TOP FIFTY (50 KM/H)		○	○	○
REVERSE POWER SHUTTLE: REVERSE SHUTTLE UNDER LOAD		●	●	●
ELECTROHYDRAULIC DIFFERENTIAL LOCK ON REAR AXLE		●	●	●
<b>POWER TAKE-OFF</b>				
WET MULTI-DISK PTO CLUTCH		●	●	●
ELECTROHYDRAULIC ENGAGEMENT		●	●	●
2 SPEEDS: 540/540E/1000/1000E	RPM	●	●	●
<b>FRONT 4WD AXLE</b>				
RIGID TYPE		●	●	●
WITH ELECTRONICALLY-CONTROLLED HYDRAULIC SUSPENSIONS		○	○	○
MAX. STEERING ANGLE		55°	55°	55°
ELECTROHYDRAULIC DIFFERENTIAL LOCK		●	●	●
TURNING RADIUS	MM	4900	5400	5400
<b>BRAKING SYSTEM</b>				
WET MULTI-DISK REAR BRAKES		●	●	●
AUTOMATIC 4WD ENGAGEMENT ON BRAKING		●	●	●
"BRAKING BOOSTER SYSTEM" SERVO BRAKE		●	●	●
<b>HYDRAULIC SYSTEM</b>				
CLOSED-CENTRE CIRCUIT		●	●	●
PUMP FLOW	LTR/MIN	123	123	123
PUMP FLOW STEERING	LTR/MIN	44	44	44
ELECTROHYDRAULICALLY-CONTROLLED REMOTE VALVES	STD/OPT	3/5 - 6	3/5 - 6	3/5 - 6
<b>"CAN BUS LIFT CONTROL" HITCH</b>				
ELECTRONICALLY-CONTROLLED HITCH		●	●	●
MAX. LIFT CAPACITY	KG	9300	9300	9300
THREE-POINT LINKAGE	CAT	3N / 3	3	3
FRONT HITCH AND PTO	(MAX. LIFT CAPACITY KG)	3500 ○	3500 ○	3500 ○
<b>CAB AND DRIVING POSITION</b>				
"LOUNGE CAB" WITH 4-POST DESIGN AND FLAT-DECK PLATFORM		●	●	●
ELECTR.-CONTR. HYDRAULIC CAB SUSPENSION "LANDINI SUSPENDED HYDRO CAB"		○	○	○
CLIMATE CONTROL		●	●	●
SUPER DELUXE AIR SUSPENSION SEAT WITH ARMREST		●	●	●
DELUXE LOW-FREQUENCY AIR SUSPENSION SEAT WITH AIR-CONDITIONING AND ARMREST		○	○	○
RADIO / BLUETOOTH / MP3 READY		●	●	●
"HIDE AWAY" BUDDY SEAT + AIR-CONDITIONED IN-CAB STORAGE COMPARTMENT		●	●	●
<b>DIMENSIONS</b>				
FRONT TYRES		540/65R28	540/65R30	540/65R30
REAR TYRES		650/65R38	650/65R42	650/65R42
A - MAX. LENGTH (WITH BALLAST WEIGHTS)	MM	5260	5360	5360
B - MIN. WIDTH	MM	2430	2430	2430
C - WHEELBASE	MM	2750	2820	2820
D - HEIGHT OVER CAB	MM	2920	3055	3055
E - GROUND CLEARANCE 4WD	MM	550	550	550
TOTAL WEIGHT WITHOUT BALLAST WEIGHTS	KG	6550	7350	7350

Key: ● standard ○ option – not available

