

NEW

5H Series-T4^{interim}

90 - 100 - 110 - 115



Landini



New **5H Series** with **Tier4^{interim}**
the difference
stands out



The 5H tractor range from Landini is revamped with the new Perkins 854E-E34TA 3.4L, four-cylinder engines, all featuring a two-valve cylinder head, a common rail injection system, turbocharging and an air-to-air aftercooling system. Equipped with an innovative exhaust gas recirculation system (EGR) which reduces NOx emissions at source, these engines meet the Tier 4 Interim emission regulations without the use of fuel additives.

Based on cutting-edge technology, the new engines deliver improved power and torque performance with reduced fuel consumption. The 5H series comprises four models with power ratings from 85 to 113 hp: the 90, 100, 110 and 115. All models are available in both **Techno** and **Top** versions. Modular and versatile, the basic gearbox (**Speed Four**) has four synchronised gears in three ranges offering 12 forward and 12 reverse speeds. The **Techno** version features a mechanical reverse shuttle fitted under the steering wheel, while the **Top** version has an electrohydraulic reverse power shuttle. The **Techno** transmission is offered as standard on the 2WD models with 12 forward and 12 reverse gears and a maximum speed of 18.7 mph (30 km/h).

With optional creep speed, this version provides 16 forward and 16 reverse gears. On the 4WD models, an overdrive is added to the basic transmission providing 24 forward and 12 reverse gears and a speed of 25 mph (40 km/h). The **Top** transmission in the 18.7 mph (30 km/h) version offers for the 2WD models the same features and options as for the **Techno** configuration. On the 4WD models, the basic gearbox is combined with an electrohydraulic **T-Tronic** transmission offering three shift-on-the-go Powershift ranges (H-M-L) that provide 36 forward and 12 reverse gears with a maximum speed of 25 mph (40 km/h). This version also can be optionally equipped with a creeper giving a total of 48 forward and 16 reverse speeds.

All models feature a PTO with wet multi-disc clutch and electrohydraulic engagement offering a choice of either two or three speeds. All 5H tractors are equipped as standard with a mechanical power lift with **Ergonomic Lift System** (E.L.S.), except the **Top** version with cab which features an electronic power lift. All models come with draft control on the lower links. In addition to introducing new engines, the range has been extensively restyled. The hood has been fully redesigned to sport the new family styling that will mark all future Landini tractor ranges. Other improvements include increased hydraulic flow (63 l/min + 30 l/min) and a larger fuel tank with a storage capacity of 120 litres.

The 5H tractor range has now been revamped with a newly redesigned cab. The new cab is a four-post design with flat-deck platform and rear hinged doors that provides ease of access to the driver's seat and unequalled all round visibility.

Designed with painstaking attention to detail, the cab interior features ergonomically-arranged controls for maximum comfort and ease of operation. The telescopic tilt-adjustable steering wheel tilts with the instrument panel, allowing the driver to constantly monitor the tractor operation. The air-conditioning with filters located in the rear posts for ease of cleaning makes for an ultra-slim roof design that reduces the tractor overall height.



New 5H Series

FRONT POWER LIFT AND PTO FOR GREATER VERSATILITY (OPTIONAL)

The Cat. 2 three-point hitch features raise/lower and float position control functions and provides a lift capacity of 3960 LB (1800 kg). The 1000-rpm PTO is electro-hydraulically engaged via a pushbutton. The front power lift and PTO have been specially designed to enhance the versatility of the 5H tractor range, making it ideal for the use of front and rear implement combinations.

NEW PERKINS TIER 4 INTERIM COMPLIANT 854E-E34TA ENGINES

The 5H tractors are powered by the new *Perkins* 854E-E34TA four-cylinder turbo-aftercooled engines with two-valve cylinder head and electronic common rail injection system that deliver power ratings from 85 to 113 hp.

These 3.4L engines utilize an innovative exhaust gas recirculation system (EGR) in conjunction with a diesel particulate filter (DPF) to meet the Tier 4 Interim emission regulations.

The electronic engine management, combined with the *Dual Power* system, allows the engine to automatically deliver extra power and torque to cope with demanding PTO and transport applications.

Fully reshaped to reflect the new Landini family style, the tilt-up hood opens wide to provide easy access to the engine compartment for routine service and maintenance (fig. A).



A



FRONT AXLE WITH 55° STEERING ANGLE

The 4WD front axle with electrohydraulic engagement and 55-degree steering angle ensures high ground clearance and optimum manoeuvrability.

The combined action of the front and rear wet disc brakes provides effective braking on all four wheels.

Featuring a full differential lock with electrohydraulic engagement, the front axle provides maximum traction even in the toughest ground conditions (fig. B).



T4interim



KEY FEATURES & BENEFITS

- › ENGINES MEETING TIER 4 INTERIM EMISSION REGULATIONS
- › ENGINES WITH ELECTRONIC INJECTION, TURBOCHARGING AND AIR-TO-AIR AFTERCOOLING
- › ENGINE POWER MANAGEMENT WITH DUAL POWER SYSTEM
- › HIGH ENGINE FLEXIBILITY, LOW FUEL CONSUMPTION
- › TILT-UP HOOD FOR SIMPLIFIED SERVICE AND MAINTENANCE
- › ELECTROHYDRAULIC T-TRONIC TRANSMISSION (3 POWERSHIFT RANGES H-M-L)
- › DE-CLUTCH BUTTON ON GEAR LEVER FOR MANUAL GEAR CHANGES
- › REVERSE POWER SHUTTLE LEVER ADJACENT TO THE STEERING WHEEL
- › CHOICE OF 48 FORWARD AND 16 REVERSE SPEEDS WITH CREEPER

NEW INSTRUMENT PANEL AND STEERING WHEEL

Stylish and well lighted, the instrument panel tilts with the steering wheel, allowing the driver to constantly monitor the tractor operation (fig. C).

ELECTROHYDRAULIC T-TRONIC TRANSMISSION

The *Top* version of the 5H features a basic gearbox (*Speed Four*) with a hydraulic *Reverse Power Shuttle* providing three ranges with four speeds in each range. The basic gearbox can be combined with a *T-Tronic* transmission with three *Powershift* ranges (high, medium, low) that can be shifted on-the-go using the green buttons integrated in the gear lever (fig. D), thus providing 36 forward and 12 reverse gears. A creeper unit is available as an option to increase the total number of speeds to 48 forward and 16 reverse. The *De-clutch Control* (orange button on the gear lever) (fig. D) and the *Reverse Power Shuttle* (lever under the steering wheel) (fig. C) allow the driver to change gear and shift from forward to reverse without using the clutch pedal. In addition, the electronically-controlled power shuttle is equipped with a new feature called *Shuttle Modulation Control*. This consists of a potentiometer fitted on the control panel (fig. E) which allows the driver to fine tune the responsiveness of the clutch and power shuttle to suit the implement being used.



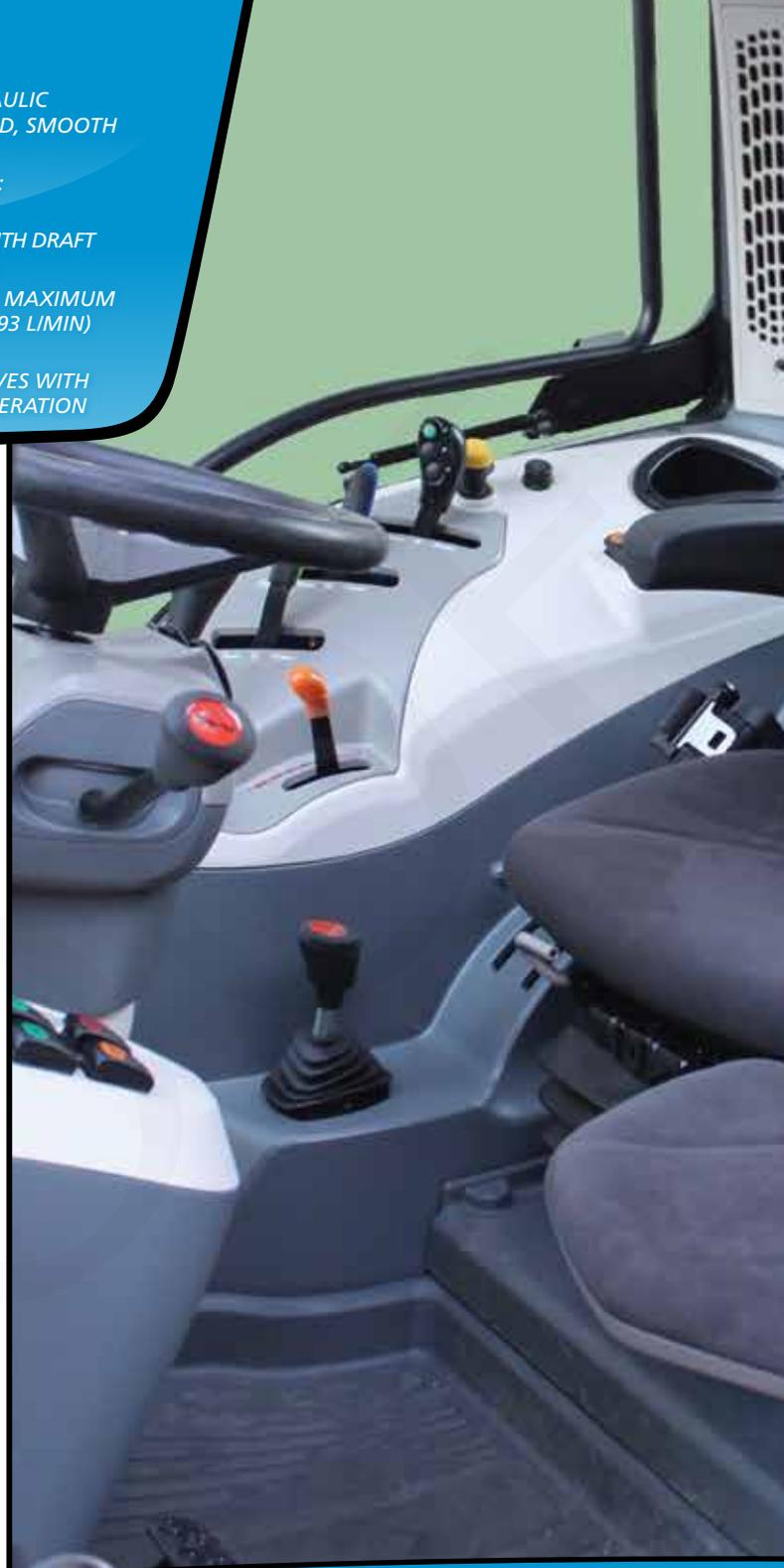


KEY FEATURES & BENEFITS

- › CAB WITH ALL-ROUND VISIBILITY AND ROOF HATCH FOR LOADER WORK
- › FULLY ADJUSTABLE DRIVING POSITION (STEERING WHEEL+CONTROL PANEL AND AIR SUSPENSION SEAT)
- › ERGONOMICALLY-ARRANGED AND INTUITIVE CONTROLS
- › SLIM PROFILE ROOF AND AIR-CONDITIONING FILTERS FITTED ONTO THE REAR CAB POSTS
- › PTO WITH ELECTROHYDRAULIC CONTROL FOR MODULATED, SMOOTH ENGAGEMENT
- › PTO WITH UP TO 3 SPEEDS: 540/750/1000 RPM
- › ELECTRONIC POWER LIFT WITH DRAFT CONTROL ON LOWER LINKS
- › HYDRAULIC SYSTEM WITH MAXIMUM FLOW RATE OF 32.4 GPM (93 L/MIN) (POWER LIFT+STEERING)
- › UP TO FOUR REMOTE VALVES WITH JOYSTICK FOR LOADER OPERATION

NEW LANDTRONIC POWER LIFT: THE PRECISION OF ELECTRONICS

With the controls conveniently located on the right-hand console (fig. G), the new electronically-controlled Landtronic power lift provides all main functions and regulations allowing fingertip control of the implement. The Cat 2 three-point linkage (fig. F) features lower-link draft control for easy operation and provides a maximum lift capacity of 10450 lb (4750 kg).



HYDRA-PTO: 2- AND 3-SPEED PTO WITH HYDRAULIC ENGAGEMENT FOR MAXIMUM FLEXIBILITY

The 1³/₈ PTO offers a choice of two speeds: 540/750 rpm or, optionally, 540/1000 rpm. An additional 3-speed PTO providing 540/750/1000 rpm is available as an option for greater versatility. Hydraulically operated by push-button (P) (fig. G), the multi-disc wet clutch allows for a modulated PTO engagement, thus ensuring a smooth start-up of the implement.





I



NEW 'TOTAL VIEW' SLIM CAB FOR UNMATCHED VISIBILITY AND SUPERIOR COMFORT

The fully adjustable driving position offers as standard an air suspension seat and a new instrument panel that tilts with the steering wheel, allowing the driver to constantly monitor the tractor operation.

The interior features a sleek and modern design with automotive-grade fit and finish and ergonomically-arranged controls (fig. I). While a roof hatch provides extra visibility for loader work.



H

HIGH PERFORMANCE HYDRAULICS AND HIGHLY VERSATILE REMOTE VALVES

The new hydraulic system provides a maximum total flow of 32.4 gpm (93 l/min) (power lift + steering).

The system features up to four remote valves with lever controls conveniently placed to the driver's right. Two of the valves are controlled by a joystick (1) (fig. H) and operate either a front loader or a front power lift; the other two are controlled by levers (2) allowing a versatile and efficient use of the implements (fig. H).

	5-090H		5-100H		5-110H		5-115H		
	Techno	Top	Techno	Top	Techno	Top	Techno	Top	
ENGINE									
PERKINS "TIER4 INTERIM" DIRECT-INJECTION ENGINE			854E-E34TA		854E-E34TA		854E-E34TA		854E-E34TA
MAX POWER ISO (TECHNO VERSION)	HP/KW	85 / 62,5		95 / 70		102 / 75		113 / 83	
MAX POWER ISO (TOP VERSION)	HP/KW	88,5 / 65		95 / 70		105 / 77		113 / 83	
MAX POWER WITH DUAL POWER ISO (T-TRONIC TRANSMISSION)	HP/KW	95 / 70		102 / 75		113 / 83		—	
RATED SPEED	RPM	2200		2200		2200		2200	
MAX TORQUE (TECHNO VERSION)	LB. (NM)	260 (354)		290 (395)		310 (420)		330 (450)	
MAX TORQUE (TOP VERSION)	LB. (NM)	270 (368)		290 (395)		318 (432)		330 (450)	
MAX TORQUE WITH DUAL POWER (T-TRONIC TRANSMISSION)	LB. (NM)	290 (395)		310 (420)		330 (450)		—	
MAX TORQUE SPEED	RPM	1400		1400		1400		1400	
BORE/STROK	IN. (MM)	3,9 / 4,3 (99 / 110)		3,9 / 4,3 (99 / 110)		3,9 / 4,3 (99 / 110)		3,9 / 4,3 (99 / 110)	
DISPLACEMENT / CYLINDERS	CU. IN. (CM ³)	207 (3400) / 4 TA		207 (3400) / 4 TA		207 (3400) / 4 TA		207 (3400) / 4 TA	
COMPRESSION RATIO		17:1		17:1		17:1		17:1	
WATER COOLING		•		•		•		•	
DRY AIR FILTER		•		•		•		•	
FUEL TANK CAPACITY	GAL. (LT)	32 (120)		32 (120)		32 (120)		32 (120)	
CLUTCH									
INDEPENDENT DRY SINGLE-PLATE CLUTCH	IN. (MM)	13"(330)		13"(330)		13"(330)		13"(330)	
MECHANICALLY OPERATED		•		•		•		•	
MULTI-DISC WET CLUTCH		•		•		•		•	
DECLUTCH CONTROL: BUTTON-OPERATED CLUTCH		•		•		•		•	
TRANSMISSION									
MECH. REV. SHUTTLE + SPEED FOUR: 12FWD+12REV (2WD ONLY)		•		•		•		—	
MECH. REV. SHUTTLE + SPEED FOUR + CREEPER: 16FWD+16REV (2WD ONLY)		○		○		○		—	
MECH. REV. SHUTTLE + SPEED FOUR + OVERDRIVE: 24FWD+12REV (40KM/H) (PLATFORM ONLY)		•		•		•		•	
MECH. REV. SHUTTLE + SPEED FOUR: 12FWD+12REV (40KM/H) (CAB ONLY)		•		•		•		•	
HYDR. REV. SHUTTLE + SPEED FOUR: 12FWD+12REV		•		•		•		•	
HYDR. REV. SHUTTLE + SPEED FOUR + CREEPER: 16FWD+16REV		○		○		○		○	
HYDR. REV. SHUTTLE + SPEED FOUR + T-TRONIC: 36FWD+12REV (40KM/H)		○		○		○		○	
HYDR. REV. SHUTTLE + SPEED FOUR + T-TRONIC + CREEPER: 48FWD+16REV (40KM/H)		○		○		○		○	
ECO FORTY (40 KM/H) AT REDUCED ENGINE SPEED (T-TRONIC TRANSMISSION)		○		○		○		○	
SHUTTLE MODULATION CONTROL: POTENTIOMETER FOR ADJUSTMENT OF POWER SHUTTLE AGGRESSIVENESS		•		•		•		•	
PARK LOCK		○		○		○		○	
POWER TAKE-OFF									
OIL-IMMERSED MULTI-DISC HYDRA P.T.O		•		•		•		•	
ELECTROHYDRAULIC CONTROL		•		•		•		•	
2 SPEEDS 540/750	RPM	•		•		•		•	
2 SPEEDS 540/1000	RPM	○		○		○		○	
3 SPEEDS 540/750/1000	TR/MIN	○		○		○		○	
1" 3/8 (34.9 MM) PTO SHAFT WITH 6 SPLINES		•		•		•		•	
GROUND SPEED PTO		○		○		○		○	
NET PTO POWER (ISO) TECHNO VERSION (TOP VERSION)	HP/KW	71,5 / 52,5		81,5 / 60		88 / 64,5		97,5 / 71,5 (96 / 70,5)	
NET PTO POWER WITH DUAL POWER (ISO) (T-TRONIC TRANSMISSION)	HP/KW	80 / 59		86,5 / 63,5		96 / 70,5		—	
4WD FRONT AXLE									
ELECTROHYDRAULIC 4WD ENGAGEMENT		•		•		•		•	
MAX. STEERING ANGLE		55°		55°		55°		55°	
TWIN-LOCK ELECTROHYDRAULIC DIFF-LOCKS		•		•		•		•	
BRAKES									
OIL-IMMERSED GRAPHITE-COATED REAR BRAKES, 10 DISCS		•		•		•		•	
OIL-IMMERSED GRAPHITE-COATED FRONT BRAKES, 4 DISCS		•		•		•		•	
IBS - INTEGRAL BRAKING SYSTEM		•		•		•		•	
HYDRAULIC POWER LIFT									
DRAFT, POSITION, INTERMIX AND FLOATING CONTROL FUNCTIONS		•		•		•		•	
MECHANICALLY OPERATED		•		•		•		•	
ERGONOMIC LIFT SYSTEM + REAR CONTROL LEVER		○		○		○		○	
ELECTRONICALLY-OPERATED "LANDTRONIC" (ONLY CAB)		○		○		○		○	
LIFTING CAPACITY WITH 2 AUXILIARY CYLINDERS	LB. (KG)	10450 (4750)		10450 (4750)		10450 (4750)		10450 (4750)	
MAX. OPERATING PRESSURE	PSI (BAR)	2600 (180)		2600 (180)		2600 (180)		2600 (180)	
HYDRAULIC FLOW @ REMOTE	GPM (LT/MIN)	16,6 (63)		16,6 (63)		16,6 (63)		16,6 (63)	
TOTAL HYDRAULIC FLOW (HITCH + STEERING)	GPM (LT/MIN)	24.5+7.9 (63+30)		24.5+7.9 (63+30)		24.5+7.9 (63+30)		24.5+7.9 (63+30)	
CAT 2 THREE-POINT LINKAGE		•		•		•		•	
STD AUXILIARY VALVES NR° STD/OPT		2 / 4		2 / 4		2 / 4		2 / 4	
FRONT HITCH AND FRONT PTO	LIFT CAPACITY LB. (KG)	3960 (1800) ○		3960 (1800) ○		3960 (1800) ○		3960 (1800) ○	
CAB AND DRIVING SEAT									
"TOTAL VIEW SLIM" CAB / AUTO-RADIO FITTING FACILITIES		•		•		•		•	
HEATING / VENTILATION		•		•		•		•	
AIR-CONDITIONING		•		•		•		•	
PNEUMATICALLY SUSPENDED SEAT		○	•	○	•	○	•	○	
SUSPENDED PLATFORM		○		○		○		○	
DIMENSIONS AND WEIGHTS (IN RUNNING ORDER)									
FRONT TYRES		380/70 R24		380/70 R24		380/70 R24		380/70 R24	
REAR TYRES		480/70 R34		480/70 R34		480/70 R34		480/70 R34	
LENGTH (WITH BALLAST)	IN. (MM)	163.8 (4160)		163.8 (4160)		163.8 (4160)		163.8 (4160)	
WHEELBASE 2WD/4WD	IN. (MM)	93/92 (2365/2340)		93/92 (2365/2340)		93/92 (2365/2340)		—/92 (—/2340)	
GROUND CLEARANCE 4WD	IN. (MM)	18,5 (475)		18,5 (475)		18,5 (475)		18,5 (475)	
HEIGHT TO SAFETY FRAME	IN. (MM)	100,5 (2560)		100,5 (2560)		100,5 (2560)		100,5 (2560)	
HEIGHT OVER CAB	IN. (MM)	101 (2563)		101 (2563)		101 (2563)		101 (2563)	
MIN. WIDTH	IN. (MM)	83 (2110)		83 (2110)		83 (2110)		83 (2110)	
WEIGHT (WITHOUT BALLAST) 4WD + (550 LB. (250 KG) CAB)	LB. (KG)	8030 (3650)		8030 (3650)		8030 (3650)		8030 (3650)	

Key: • standard ○ option – not available