



LANDINI POWERLIFT, THE NEW GENERATION OF TELE-TRACTORS

Powerlift is the name of the new telescopic tractor specially developed by Landini for industrial, agricultural and forestry applications. Extremely innovative and functional, the *Powerlift* is an *all-round* tractor that combines the development in the Telescopic Handlers with Landini's long-established expertise in tractor design and manufacture.

The *Powerlift* is equipped with a latest generation 4-cylinder, 4400 cc, Tier 3 SISU diesel engine that, besides being more efficient, economical and environment-friendly, provides a 147 HP power rating with 110 HP available at the PTO.

The *Powerlift* features a front-mounted telescopic boom providing a maximum lift height of 354 in. (9 metres) and a loading capacity of 7000 lb. (3180 kg), as well as a rear mounted PTO and hydraulic lift with three-point linkage providing a lift capacity of 9900 lb. (4500 kg). The patented "*Dual Drive System*" reversible driving position enhances the features of the *Powerlift* tele-tractor making it unique in its class.

The patented 25 mph (40 kph) EVT hybrid transmission is the most advanced solution available on the market today. It consists of an automotive hydrostatic transmission integrated with a mechanical Powershift transmission combining the ergonomics of the former with the sturdiness of the latter.

The cab is equipped with a new and excellent air conditioning system aimed at enhancing the operator's comfort.

The *Powerlift* incorporates the functions of a telescopic handler, farm tractor and forestry machine into a single vehicle which does the work of three different machines with significant benefits for the user both in terms of time saving and cost amortisation.



POWERLIFT 150

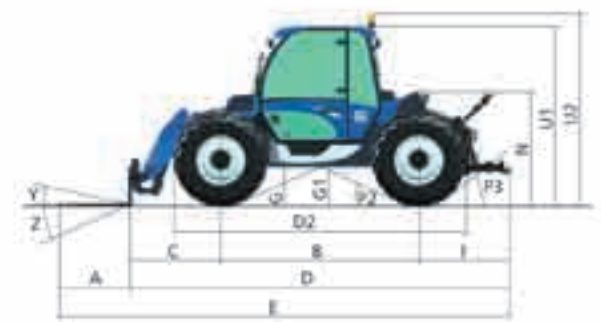
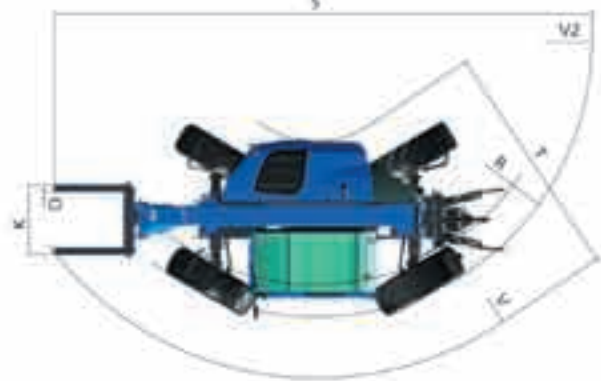
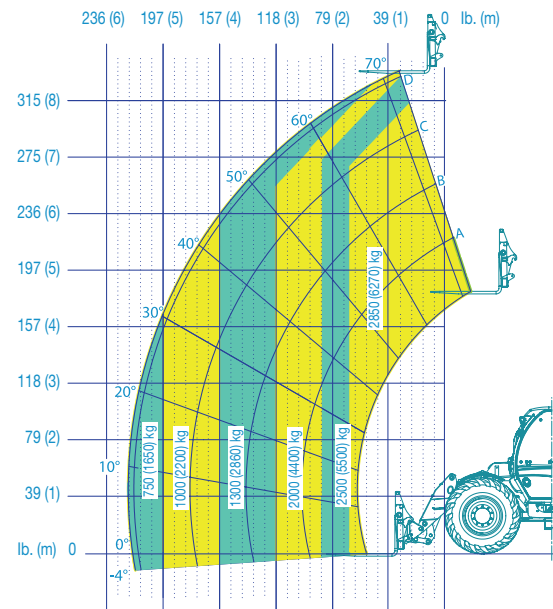
ENGINE		
SISU DIRECT-INJECTION 4-CYLINDER DIESEL ENGINE MODEL		TIER 3 44-CWA-2V
MAX. POWER (ISO)	KW/HP	108/147
DISPLACEMENT/CYLINDERS	CU. IN. (CM³)	268 (4400) / 4
FUEL TANK CAPACITY	GAL. (LT.)	45 (170)
TELESCOPIC BOOM (PATENTED)		
MAX. LIFT CAPACITY	LB. (KG)	7000 (3180)
MAX. LIFT HEIGHT	IN. (M)	338,5 (8,6)
MAX. REACH	IN. (M)	220 (5,6)
MAX. HEIGHT AT MAX. PAYLOAD	IN. (M)	338,5 (8,6)
REACH AT MAX. PAYLOAD	IN. (M)	74,8 (1,9)
PAYLOAD AT MAX. HEIGHT	LB. (KG)	5500 (2500)
PAYLOAD AT MAXIMUM REACH	LB. (KG)	1980 (900)
ROTATION OF ATTACHMENT HOLDER PLATE		140°
TOWING CAPACITY	LB. (KG)	19800 (9000)
ATTACHMENT COUPLING SYSTEM		
"EURO HITCH" HYDRAULIC COUPLER		•
CAB AND DRIVING POSITION		
TOTAL ALL-ROUND VISIBILITY-FOPS AND ROPS APPROVED AS PER OCSE CODE WIDTH 38,7 IN. (983 MM)		•
DUAL DRIVE SYSTEM (D.D.S.) REVERSIBLE DRIVING POSITION (PATENTED)		•
AIR-CONDITIONING		•
DIGITAL INSTRUMENTS		•
PNEUMATIC SUSPENSION SEAT		•
TRANSMISSION		
ELECTRONICALLY-CONTROLLED E.V.T. TRANSMISSION WITH 3 SPEED RANGES POWERSHIFT 25 MPH (40 KPH)		•
PERMANENT FOUR-WHEEL DRIVE		•
FRONT AXLE WITH "LIMITED SLIP" SELF-LOCKING DIFFERENTIAL		•
REAR AXLE WITH ELECTROHYDRAULIC DIFF-LOCK		•
AXLE OSCILLATION ± 8°		•
REAR PTO (110 HP)		
ELECTROHYDRAULICALLY OPERATED		•
PTO SPEED	RPM	540 / 1000
1" 3/8 PTO reversible shaft with 6 splines		○
1" 3/4 PTO shaft with 21 splines		○
NET PTO POWER (ISO)	KW/HP	81/110
REAR POWER LIFT		
REAR POWER LIFT		•
ELECTRONIC CONTROL BY JOYSTICK		•
LIFT CAPACITY	LB. (KG)	9900 (4500)
THREE-POINT LINKAGE		CAT. 2
AUXILIARY VALVES		2
TOP LINK MECHANICALLY		•
HYDRAULICS		
LOAD-SENSING AXIAL-PISTON HYDRAULIC PUMP		•
MAX. HYDRAULIC FLOW PUMP	GPM (LT/MIN)	26,3 (100)
TELESCOPIC BOOM/HYDRAULICS (OPERATING PRESSURE)	PSI (BAR)	4043 (280) / 3032 (210)
BRAKING SYSTEM		
INTEGRAL BRAKING ON ALL FOUR WHEELS WITH WET DISC BRAKES (4 DISCS ON REAR AXLE/ 6 DISCS ON FRONT AXLE)		•
FRENO DI STAZIONAMENTO A COMANDO ELETTO IDRAULICO NEGATIVO		•
STEERING SYSTEM		
WITH 4 STEERING WHEELS AND 4 STEERING MODES		•
TYRES		
FRONT AND REAR		460/70 - 24 ○
FRONT AND REAR		405/70 - 24 ●
FRONT AND REAR		17,5 - 25 ○
FRONT AND REAR		500/70 - 24 ○
WEIGHT		
TOTAL WEIGHT	LB. (KG)	17600 (8000)
MAXIMUM TOWABLE MAS	LB. (KG)	48400 (22000)
APPROVED AS FARM TRACTOR		•

Key: ● standard
○ option
- not available

DIMENSIONS IN. (MM.)

A	47 (1200)	I	49,5 (1260)	T	149-157 (3795-4000)
B	112,2 (2850)	J	38,5 (983)	U1	102 (2590)
C	51-54 (1290-1370)	K	77,5 (1670)	U2	104 (2650)
D	224 (5690)	N	57,8 (1470)	V	186 (4725)
D2	188,5 (4790)	O	5 (125)	V2	135 (3430)
E	271 (6895)	P2	38°	W	88,5-96 (2250-2450)
F	71 (1805)	P3	53°	Y	12°
G	21 (542)	R	126-145 (3210-3682)	Z	133°
G1	17,7 (450)	S	291-198 (7390-7790)		

LOAD CHART



Powerlift

150 - 45 X 9 X 30



Landini[®]



Landini[®]

SIDE-MOUNTED SISU "TIER 3" ENGINE WITH REAR TILTING HOOD

THE *POWERLIFT* IS EQUIPPED WITH A SISU 44 CWA 2V, 4-CYLINDER, AIR-TO-AIR AFTER-COOLED, NEW GENERATION ENGINE. THIS ENGINE, WHICH DELIVERS A 147 HP (ISO) POWER RATING, PROVIDES A HIGH TORQUE BACKUP, IMPROVED FUEL CONSUMPTION AND LOW NOISE WHILE COMPLYING TO THE TIER 3 STANDARDS GOVERNING EMISSIONS INTO THE ENVIRONMENT. THE REAR TILTING HOOD PROVIDES EASY ACCESS TO THE ENGINE FOR ROUTINE SERVICE AND MAINTENANCE. > FIG. A



TELESCOPIC BOOM WITH PATENTED CARTRIDGE-TYPE INNER EXTENSION SYSTEM AND "EURO HITCH" COUPLER FOR FARM IMPLEMENTS

THE BOOM OF THE *POWERLIFT*, CONTROLLED VIA A JOYSTICK, REACHES A MAXIMUM LIFT HEIGHT OF 9 METRES AND A LIFTING CAPACITY OF 7000 LB. (3180 KG). > FIG. B

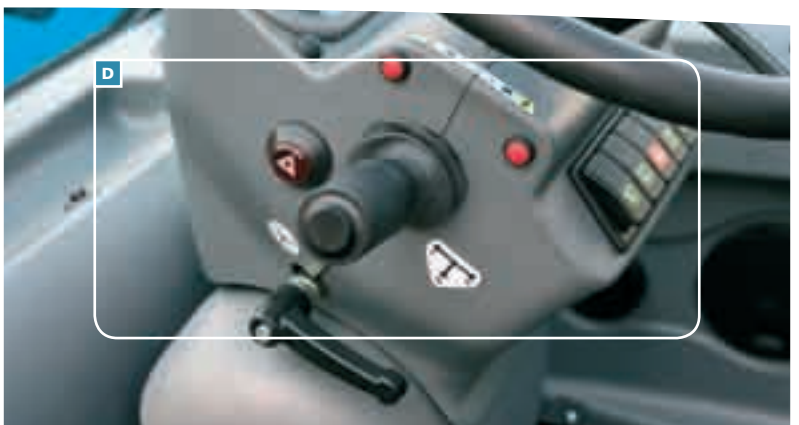
COMPACT, LIGHT WEIGHT AND CLEAN IN DESIGN, THE BOOM ALLOWS THE OPERATOR MAXIMUM VISIBILITY FOR FAST OPERATING SPEED IN ANY WORK CONDITION, THANKS TO THE CARTRIDGE-TYPE BOOM EXTENSION SYSTEM, WHICH IS SAFELY LOCATED INSIDE THE BOOM FRAME LEAVING NO ELEMENTS EXPOSED. THE HYDRAULICALLY OPERATED "EURO HITCH" COUPLING HOOK FOR QUICK CHANGE OF FARM IMPLEMENTS FURTHER ENHANCES THE COMFORT AND PRODUCTIVITY OF THE MACHINE. > FIG. C

SAFE BOOM OPERATION IS ENSURED BY AN ELECTRONIC ANTI-OVERTURNING DEVICE NAMED "ANTI ROCKER SYSTEM" SENDING AN AUDIBLE ALARM WHEN A DANGEROUS ANGLE OF INCLINATION IS DETECTED.

PATENTED "ELECTRONIC VARIABLE TRANSMISSION", A 25 MPH (40 KPH) HYBRID HYDROSTATIC + MECHANICAL TRANSMISSION FOR IMPROVED COMFORT AND PRODUCTIVITY

THE NEW, REVOLUTIONARY PATENTED E.V.T. HYBRID + MECHANICAL TRANSMISSION DEVELOPED BY LANDINI COMBINES A HYDROSTATIC TRANSMISSION WITH *AUTOMOTIVE-STYLE* CONTROL FEATURING A VARIABLE-DISPLACEMENT, CLOSED-LOOP LOAD SENSING AXIAL PISTON PUMP AND MOTOR WITH A NEW, SPECIALLY BUILT THREE-RANGE *POWERSHIFT* TRANSMISSION. THE SYSTEM IS ELECTRONICALLY CONTROLLED VIA A DEDICATED SOFTWARE DESIGNED TO INTEGRATE THE FUNCTIONS OF THE TWO TRANSMISSIONS.

THE EVT TRANSMISSION ENABLES THE OPERATOR TO SELECT FROM A CHOICE OF THREE SPEED RANGES WITH THE THIRD RANGE REACHING A MAXIMUM SPEED OF 25 MPH (40 KPH). WITH HIS LEFT HAND THE OPERATOR CAN USE THE PUSH-BUTTON CONTROLS OF THE GEARSHIFT TO EITHER SELECT THE SPEED RANGE OR SHIFT INTO REVERSE, EVEN WHILE IN MOTION, WITHOUT TAKING HIS HANDS OFF THE WHEEL. > FIG. D





POWERLIFT, ULTIMATE VERSATILITY WITH



THE "DDS" REVERSIBLE DRIVING POSITION



ELECTRONICALLY-CONTROLLED REAR POWER LIFT AND PTO TO OPERATE TRAILED OR FRONT MOUNTED FARM IMPLEMENTS

WITH THE ACCURACY OF ELECTRONICS THE REAR LIFT PROVIDES ALL MAIN FUNCTIONS ENSURING COMFORTABLE FINGERTIP CONTROL OF FARM IMPLEMENTS. THE CAT.2 THREE-POINT LINKAGE PROVIDES A MAXIMUM LIFTING CAPACITY OF 9900 LB. (4500 KG). THE HYDRAULICALLY OPERATED WET DISC CLUTCH ENABLES SMOOTH AND PROGRESSIVE ENGAGEMENT OF THE PTO, PREVENTING ABRUPT STARTING OF THE SHAFT FOR IMPROVED COMFORT. THE 1" 3/8 PTO PROVIDES TWO BASIC SPEEDS OF 540/1000 RPM AND DELIVERS AN OUTPUT POWER OF 110 HP/ISO, THE HIGHEST IN THIS CLASS OF MACHINES. > FIG. E

FARM IMPLEMENT ARE OPERATED BY TWO HYDRAULIC REAR AUXILIARY VALVES MECHANICALLY CONTROLLED VIA A JOYSTICK LOCATED IN THE CAB.

THE ONLY ONE WITH FOUR DIFFERENT PATENTED STEERING MODES

THE *POWERLIFT* FEATURES AXIAL TYPE AXLES WITH CENTRAL DIFFERENTIAL AND FINAL REDUCTION GEARS LOCATED IN THE WHEEL HUB. THE FOUR WHEEL DRIVE AND THE INTEGRAL BRAKING SYSTEM WITH WET DISC BRAKES ENSURE MAXIMUM SAFETY UNDER ALL OPERATING CONDITIONS. TELESCOPIC HANDLERS CURRENTLY AVAILABLE ON THE MARKET OFFER A CHOICE OF THREE STEERING MODES:

- 1) C FRONT-WHEEL STEER ONLY.
- 2) COORDINATED FOUR-WHEEL STEER FOR TIGHT TURNING.
- 3) CRAB STEER FOR LATERAL SIDE MOVEMENTS.

THE *POWERLIFT* OFFERS AN ADDITIONAL STEERING MODE, ALLOWING THE VEHICLE TO BE STEERED USING THE REAR WHEELS ONLY.

THIS OPTION, WHICH IS TOTALLY NEW FOR TELESCOPIC HANDLERS, COMPLETES THE RANGE OF POSSIBLE STEERING MODES WHILE ENHANCING THE TRACTOR REVERSIBILITY.



CAB WITH PATENTED DUAL DRIVE SYSTEM REVERSIBLE DRIVING POSITION FOR ENHANCED VERSATILITY

BY COMBINING THE TELESCOPIC BOOM IN THE FRONT AND THE HYDRAULIC POWER LIFT IN THE REAR WITH THE REVERSIBLE DRIVING POSITION LANDINI HAS OBTAINED A UNIQUE, ALL-ROUND, TWO-WAY MACHINE THAT ENABLES SPECIAL FARM IMPLEMENTS TO BE OPERATED WITH EASE FOR UNEQUALLED VERSATILITY.

THE D.D.S. REVERSIBLE DRIVING POSITION IS AN INNOVATIVE YET PRACTICAL MECHANISM THAT ENABLES THE TURNABLE TO WHICH THE SEAT AND STEERING WHEEL ARE FITTED TO BE TURNED BY 180° IN JUST FIVE SECONDS. > FIG. G THE CAB WITH ALL-ROUND VISIBILITY IS ONE METER IN WIDTH, BEING THE LARGEST AVAILABLE ON THE MARKET TODAY.

THE QUALITY, DESIGN AND ERGONOMICS OF ALL CONTROLS INTEGRATED INTO BOTH THE STYLISH SIDE CONSOLE AND THE DASHBOARD MAKE DRIVING A REAL PLEASURE.

THE PNEUMATIC SUSPENSION SEAT, THE ADJUSTABLE STEERING WHEEL, THE EXCELLENT AIR CONDITIONING SYSTEM AND THE PERFECT SOUNDPROOFING MAXIMISE THE OPERATOR'S COMFORT. > FIG. F