

# POWERFARM THE ESSENCE OF MODERNITY

The *Powerfarm Cab* and Platform tractor range features a clean and modern design. The new, environment-friendly *Perkins* 1104D series engines fitted on the *Powerfarm Cab* models offer high torque backup and improved fuel efficiency.

They meet the *Tier 3* emission standard and deliver 74, 83, 92.5 and 102 HP (ISO rating).

These engines feature an advanced fuel injection system that optimises air-fuel mixture, thereby improving combustion and engine efficiency.

The modular transmission provides, as standard, three ranges and four speeds in each range, resulting in a total of 12 forward and 12 reverse speeds with mechanical synchro shuttle.

The standard gearbox can be combined with either an *underdrive* (only for 2WD versions) or a creep option to provide 24 forward and 12 reverse gears with a maximum speed of 30 km/h.

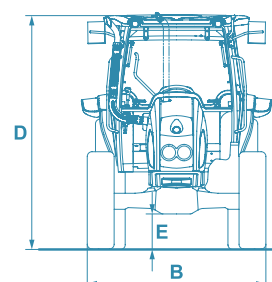
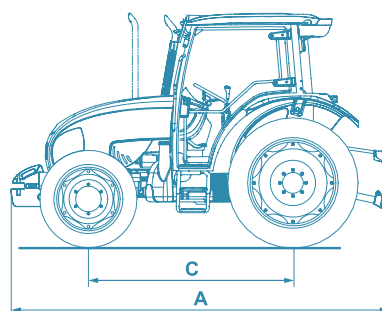
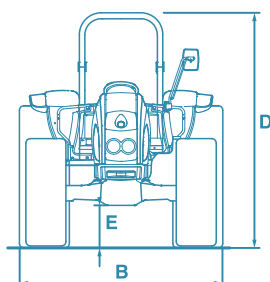
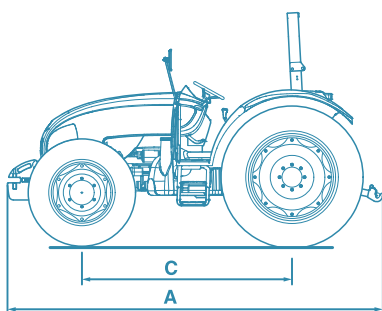
The height adjustable sprung seat and the hood with its rounded and plunging design provide excellent visibility when manoeuvring.

The tractor range comprises four models equipped with different engines and offers a choice of three transmissions and two cab styles for enhanced versatility, maximum comfort and increased productivity.



|                                                                             |                 | POWERFARM 80<br>SYNCHRO SHUTTLE | POWERFARM 90<br>SYNCHRO SHUTTLE | POWERFARM 100<br>SYNCHRO SHUTTLE | POWERFARM 110<br>SYNCHRO SHUTTLE |
|-----------------------------------------------------------------------------|-----------------|---------------------------------|---------------------------------|----------------------------------|----------------------------------|
| <b>ENGINE</b>                                                               |                 |                                 |                                 |                                  |                                  |
| PERKINS TIER 3 DIRECT-INJECTION ENGINE                                      |                 | 1104D-44                        | 1104D-44T                       | 1104D-44TA                       | 1104D-44TA                       |
| MAX. POWER (ISO)                                                            | HP/KW           | 74/54,5                         | 83/61                           | 92,5/68                          | 102/75                           |
| MAX. TORQUE                                                                 | NM              | 261                             | 352                             | 363                              | 416                              |
| DISPLACEMENT / NR. OF CYLINDERS                                             | CM <sup>3</sup> | 4400/4                          | 4400/4 TURBO                    | 4400/4 TURBO AFTERCOOLER         | 4400/4 TURBO AFTERCOOLER         |
| FUEL TANK CAPACITY                                                          | LT              | 102                             | 102                             | 102                              | 102                              |
| <b>CLUTCH</b>                                                               |                 |                                 |                                 |                                  |                                  |
| INDEPENDENT DRY DUAL CLUTCH                                                 | IN.             | 11                              | 11                              | 12                               | 12                               |
| MECHANICAL CONTROL                                                          |                 | ●                               | ●                               | ●                                | ●                                |
| <b>TRANSMISSION</b>                                                         |                 |                                 |                                 |                                  |                                  |
| SYNCHRO SHUTTLE + SPEED FOUR: 12FWD+12REV                                   |                 | ●                               | ●                               | ●                                | ●                                |
| SYNCHRO SHUTTLE + SPEED FOUR + UNDERDRIVE: 24FWD+12REV (30 KM/H) (ONLY 2WD) |                 | ○                               | ○                               | ○                                | ○                                |
| SYNCHRO SHUTTLE + SPEED FOUR + CREEPER: 24FWD+12REV (30 KM/H)               |                 | ○                               | ○                               | ○                                | ○                                |
| SYNCHRO SHUTTLE + SPEED FOUR + OVERDRIVE: 24FWD+12REV (40 KM/H)             |                 | ○                               | ○                               | ○                                | ○                                |
| ELECTROHYDRAULIC REAR DIFFERENTIAL LOCK (ONLY 2WD)                          |                 | ●                               | ●                               | ●                                | ●                                |
| <b>POWER TAKE-OFF</b>                                                       |                 |                                 |                                 |                                  |                                  |
| MECHANICAL CONTROL                                                          |                 | ●                               | ●                               | ●                                | ●                                |
| 2 SPEEDS 540/750 RPM.                                                       |                 | ●                               | ●                               | ●                                | ●                                |
| 2 SPEEDS 540/1000 RPM                                                       |                 | ○                               | ○                               | ○                                | ○                                |
| 1"3/8 (34.9MM) PTO SHAFT WITH 6 SPLINES                                     |                 | ●                               | ●                               | ●                                | ●                                |
| GROUND SPEED PTO                                                            |                 | ●                               | ●                               | ●                                | ●                                |
| NET PTO POWER (ISO)                                                         | HP/KW           | 63/46,5                         | 70,5/52                         | 79/58                            | 86,5/63,5                        |
| <b>FRONT 4WD AXLE</b>                                                       |                 |                                 |                                 |                                  |                                  |
| MECHANICAL 4WD ENGAGEMENT                                                   |                 | ●                               | ●                               | ●                                | ●                                |
| MAX. STEERING ANGLE                                                         |                 | 55°                             | 55°                             | 55°                              | 55°                              |
| TWIN-LOCK ELECTROHYDRAULIC DIFF-LOCK                                        |                 | ●                               | ●                               | ●                                | ●                                |
| <b>BRAKES</b>                                                               |                 |                                 |                                 |                                  |                                  |
| GRAPHITE-COATED REAR WET BRAKES                                             |                 | 10 DISCS                        | 10 DISCS                        | 10 DISCS                         | 10 DISCS                         |
| GRAPHITE-COATED FRONT WET BRAKES - 4 DISCS                                  |                 | ●                               | ●                               | ●                                | ●                                |
| IBS - INTEGRAL BRAKING SYSTEM                                               |                 | ●                               | ●                               | ●                                | ●                                |
| <b>HYDRAULIC HITCH</b>                                                      |                 |                                 |                                 |                                  |                                  |
| DRAFT, POSITION, INTERMIX, FLOAT CONTROL FUNCTIONS                          |                 | ●                               | ●                               | ●                                | ●                                |
| MECHANICAL CONTROL                                                          |                 | ●                               | ●                               | ●                                | ●                                |
| STD LIFT CAPACITY                                                           | KG              | 2600                            | 2600                            | 2600                             | 2600                             |
| LIFT CAPACITY WITH 2 AUXIL. CYLINDERS                                       | KG              | 3700 ○                          | 3700 ○                          | 3700 ○                           | 4350 ○                           |
| TOTAL HYDRAULIC FLOW                                                        | L/MIN           | 52,3+29,9                       | 52,3+29,9                       | 52,3+29,9                        | 52,3+29,9                        |
| STD AUXILIARY VALVES                                                        |                 | 2                               | 2                               | 2                                | 2                                |
| <b>CAB AND DRIVING POSITION</b>                                             |                 |                                 |                                 |                                  |                                  |
| "TOTAL VIEW" CAB / RADIO ADAPTOR                                            |                 | ●                               | ●                               | ●                                | ●                                |
| AIR-CONDITIONING                                                            |                 | ○                               | ○                               | ○                                | ○                                |
| ANALOG INSTRUMENT PANEL                                                     |                 | ●                               | ●                               | ●                                | ●                                |
| <b>DIMENSIONS IN RUNNING ORDER</b>                                          |                 |                                 |                                 |                                  |                                  |
| WITH TYRES                                                                  |                 | 16.9-R30                        | 18.4-R30                        | 18.4-R30                         | 18.4-R30                         |
| A - LENGTH (WITH BALLAST)                                                   | MM              | 4136                            | 4136                            | 4136                             | 4160                             |
| B - MIN. WIDTH                                                              | MM              | 1945                            | 2063                            | 2063                             | 2063                             |
| C - WHEELBASE 2WD/4WD                                                       | MM              | 2341/2316                       | 2341/2316                       | 2341/2316                        | 2365/2340                        |
| D - HEIGHT OVER ROPS                                                        | MM              | 2510                            | 2510                            | 2550                             | 2560                             |
| E - HEIGHT OVER CAB                                                         | MM              | 2518                            | 2550                            | 2550                             | 2550                             |
| F - GROUND CLEARANCE 4WD                                                    | MM              | 425                             | 453                             | 453                              | 453                              |
| WEIGHT 4WD (WITHOUT BALLAST) + (150KG CAB)                                  | KG              | 3330                            | 3330                            | 3330                             | 3450                             |

Key: ● standard ○ option — not available





# Powerfarm

80 - 90 - 100 - 110  
SYNCHRO SHUTTLE



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## NEW TIER 3 PERKINS 1104D SERIES ENGINES, MORE POWER WITH BETTER FUEL ECONOMY



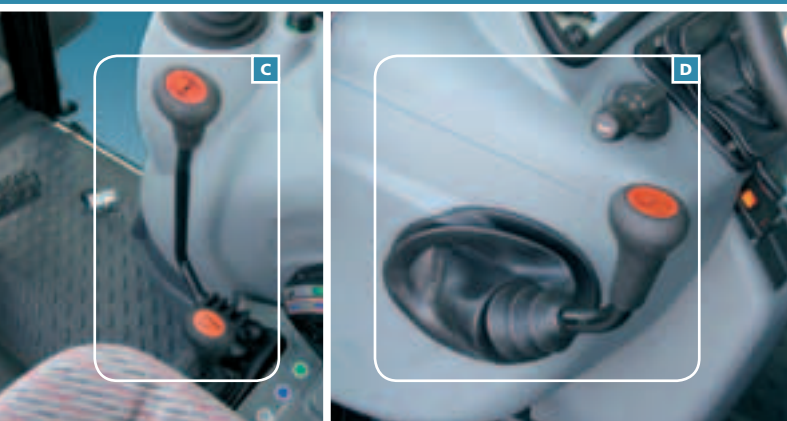
THE *POWERFARM* TRACTORS ARE POWERED BY A NEW RANGE OF ADVANCED, ENVIRONMENT-FRIENDLY ENGINES THAT PROVIDE LOW EMISSION LEVELS IN ACCORDANCE WITH THE *TIER 3* STANDARDS. SPECIALLY DESIGNED FOR FARMING APPLICATIONS, THE NEW *PERKINS* 1104D ARE MODERN ENGINES THAT PROVIDE STATE-OF-THE-ART TECHNOLOGY AND SOLUTIONS. THE RANGE COMPRISES FOUR MODELS DELIVERING THE FOLLOWING POWER RATINGS: 74 HP (NATURALLY ASPIRATED), 83 HP (TURBO), 92.5 AND 102 HP (TURBO AFTERCOOLED). THESE ENGINES FEATURE AN ADVANCED FUEL INJECTION SYSTEM THAT OPTIMISES AIR-FUEL MIXTURE, THEREBY IMPROVING COMBUSTION AND ENGINE EFFICIENCY. HIGHER HORSEPOWER AND TORQUE WITH LOWER OPERATING COSTS ARE THUS ACHIEVED. THE FORWARD TILTING HOOD PROVIDES EASY ACCESS TO THE ENGINE COMPARTMENT FOR ROUTINE SERVICE AND MAINTENANCE. > FIG. A

## LATEST-GENERATION FRONT AXLE

THE FOUR-WHEEL DRIVE FRONT AXLE WITH 55° STEERING ANGLE FEATURES WET DISC BRAKES. THE COMBINED ACTION OF FRONT AND REAR BRAKES ENSURES SAFE, EFFECTIVE BRAKING ON ALL FOUR WHEELS . > FIG. B

## MODULAR SPEED FOUR TRANSMISSION

THE MODULAR STANDARD TRANSMISSION (*SPEED FOUR*) PROVIDES 3 RANGES AND 4 SPEEDS IN EACH RANGE, RESULTING IN A TOTAL OF 12 FORWARD AND 12 REVERSE SPEEDS WITH MECHANICAL SYNCHRO SHUTTLE. THE STANDARD GEARBOX CAN BE COMBINED WITH EITHER AN UNDERDRIVE (ONLY FOR 2WD VERSIONS) OR A CREEP OPTION TO PROVIDE 24 FORWARD AND 12 REVERSE GEARS WITH A MAXIMUM SPEED OF 30 KM/H. AN OVERDRIVE OPTION IS ALSO AVAILABLE FOR 4WD MODELS TO PROVIDE 24/12 GEARS WITH 40 KM/H MAXIMUM SPEED. THE SYNCHRO SHUTTLE LEVER IS CONVENIENTLY LOCATED TO THE DRIVER'S LEFT TO ENABLE EASY DIRECTION CHANGES. THE SAME LEVER CAN BE USED TO ALTERNATELY ENGAGE THE UNDERDRIVE, CREEP OR OVERDRIVE OPTION. > FIG. C-D



## ANALOG INSTRUMENT PANEL

AN EASY-TO-READ ANALOG INSTRUMENT PANEL KEEPS THE OPERATOR CONSTANTLY INFORMED OF THE TRACTOR PERFORMANCE AND CONDITIONS.







**COMFORT AND ERGONOMICS,**





**A WINNING COMBINATION**



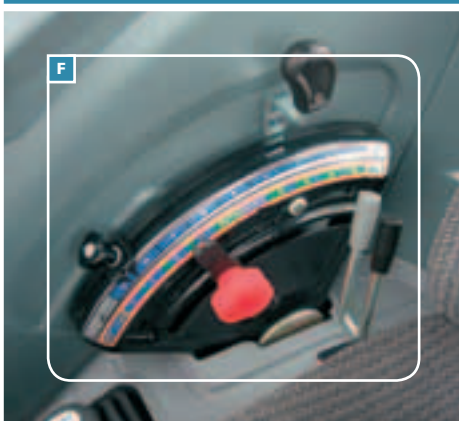


## HIGH-PERFORMANCE HYDRAULICS FOR HITCH AND REMOTE VALVES

THE MECHANICAL HITCH PROVIDES A MAXIMUM TOTAL FLOW OF 82 LITRES/MIN.

THE HITCH, EQUIPPED WITH A CAT. 2 THREE-POINT LINKAGE, PROVIDES POSITION, DRAFT, INTERMIX AND FLOAT CONTROL FUNCTIONS AND ENSURES A MAXIMUM LIFT CAPACITY OF 4350 KG. > FIG. F-H

THE SYSTEM FEATURES UP TO 4 REMOTE VALVES, TWO OF WHICH CONTROLLED BY JOYSTICK FOR FRONT LOADER WORK, [> FIG. G] AND TWO CONTROLLED BY STANDARD LEVERS CONVENIENTLY LOCATED BESIDE THE DRIVER'S SEAT. > FIG. F



## "TOTAL VIEW" CAB FOR ALL-ROUND VISIBILITY

THE FIRST THING YOU APPRECIATE WHEN YOU STEP INTO THE "TOTAL VIEW" CAB IS THE SUPERB ALL-ROUND VISIBILITY OFFERED BY THE FULLY-GLAZED REAR-HINGED SIDE DOORS.

THE CAB INTERIOR IS FINISHED WITH MODERN COMPOSITE MATERIALS FROM THE AUTOMOTIVE INDUSTRY.

ALL CONTROLS ARE LOGICALLY-ARRANGED AND CONVENIENTLY-LOCATED ACCORDING TO THE LATEST ERGONOMIC STANDARDS.

THE HEATING, VENTILATION AND AIR-CONDITIONING SYSTEM, INTEGRATED INTO THE CAB ROOF, OFFERS THE DRIVER SIGNIFICANT BENEFITS IN TERMS OF COMFORT, SAFETY AND HEALTH.

THE VENTILATION SYSTEM IS INTEGRATED BY TWO FILTERS DESIGNED TO PURIFY THE AIR INSIDE THE CAB. OPTIONALLY, THE CAB CAN BE PROVIDED WITH ACTIVATED-CARBON FILTERS, TO PROTECT THE OPERATOR DURING PESTICIDE SPRAYING.

THE ROOF FEATURES A FIXED CLEAR SUNROOF FOR WORKING WITH FRONT LOADERS, AND FOUR LIGHTS FOR NIGHT WORK. NATURAL VENTILATION IS ENSURED BY THE OPENING FRONT AND REAR WINDSCREENS.> FIG. I

ALSO THE ISO-MOUNTED PLATFORM OFFERS AN ERGONOMIC DRIVING POSITION WITH ADJUSTABLE MAXIMISE THE DRIVER'S COMFORT.

THE TWO-POST ROPS CAN BE EQUIPPED WITH A SUN CANOPY AS AN OPTION.

