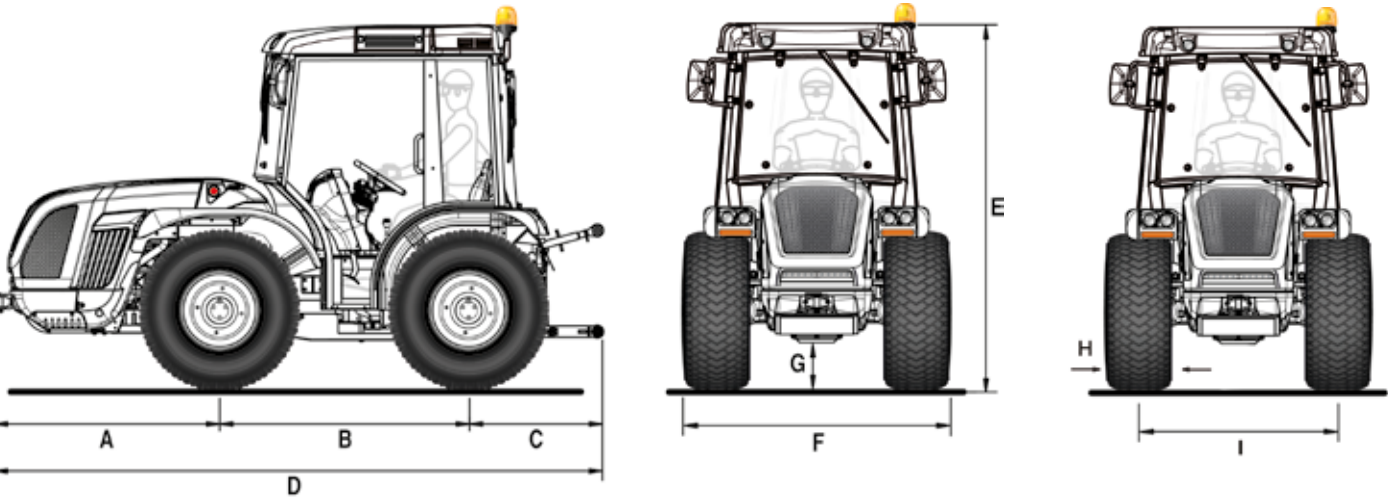


# ORION 85 MT - MODEL YEAR 24

Data Sheet



| A    | B    | C   | D    | E<br>min/max | F<br>min/max | G<br>min/max |
|------|------|-----|------|--------------|--------------|--------------|
| 1365 | 1495 | 930 | 3790 | 2070 / 2180  | 1697 / 1961  | 161 / 271    |

\* Dimensions in mm

|   | 31x15.50-15<br>XTC | 31x15.50-15<br>STG | 440/50-17<br>All-Ground | 340/65 R20          |
|---|--------------------|--------------------|-------------------------|---------------------|
|   | with fixed rim     | with fixed rim     | with fixed rim          | with adjustable rim |
| H | 368                | 394                | 431                     | 343                 |
| I | 1510               | 1510               | 1476                    | 1354 / 1618         |
| F | 1878               | 1904               | 1907                    | 1697 / 1961         |

\* Dimensions in mm - min / max  
H = Tyre width - I = Wheel track - F = Tractor width

| TECHNICAL FEATURES                                                                    | ORION 85 MT - MODEL YEAR 24                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ENGINE                                                                                | Kohler KDI 2504 TCR   Diesel common rail direct injection   Turbo intercooler   4 cylinders 16 valves   2482 cc   Liquid cooling   Stage V                                                                                                                                                                                                                                                                                                                  |
| Power                                                                                 | 55,4 kW / 75,3 hp @2300 rpm   Max torque 300 Nm@1500 rpm                                                                                                                                                                                                                                                                                                                                                                                                    |
| Engine speed management                                                               | Electronic engine speed control with hand throttle control knob and push button with set speed storage/recall/exclusion function                                                                                                                                                                                                                                                                                                                            |
| Self Cleaning System™ (standard)                                                      | Automatic radiator and engine intake grille cleaning system to prevent overheating                                                                                                                                                                                                                                                                                                                                                                          |
| CHASSIS                                                                               | Swinging integral chassis (±15°) OS-FRAME with steering wheels                                                                                                                                                                                                                                                                                                                                                                                              |
| DRIVE                                                                                 | Four-wheel drive. Front-wheel drive disengagement with electro-hydraulic control                                                                                                                                                                                                                                                                                                                                                                            |
| TRANSMISSION                                                                          | 32-speed synchronised gearbox: 16 FWD and 16 REV with synchronised reverser                                                                                                                                                                                                                                                                                                                                                                                 |
| Min/max travel speed (km/h)                                                           | 0.7 / 40                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| POWER SHUTTLE EASYDRIVE® (optional)                                                   | Electronically controlled electro-hydraulic with lever positioned to the left of the steering wheel and two available reversing modes: slow reverse and quick reverse                                                                                                                                                                                                                                                                                       |
| Transmission clutch                                                                   | Multidisc in oil bath with electronically-managed and proportional hydraulic control. Power Clutch System button for engaging gears and reverser without using the clutch pedal. PRO-ACT System clutch pedal with Easy Plus™ assisted engagement. Smart Brake & Go function for automatic clutch management only with the brake pedal.                                                                                                                      |
| DIFFERENTIAL                                                                          | Front and rear. Differential lock: front and rear simultaneously or rear only with electro-hydraulic control                                                                                                                                                                                                                                                                                                                                                |
| AXLES                                                                                 | Front and rear with planetary reduction units                                                                                                                                                                                                                                                                                                                                                                                                               |
| REAR PTO                                                                              | Independent from the gearbox and synchronised with the forwarding speed. Negative safety hydraulic brake to stop the PTO                                                                                                                                                                                                                                                                                                                                    |
| PTO clutch                                                                            | Multidisc in oil bath with electro-hydraulic control                                                                                                                                                                                                                                                                                                                                                                                                        |
| PTO rotation speed (rpm)                                                              | Standard: 540/1000 - Optional: 540/540E                                                                                                                                                                                                                                                                                                                                                                                                                     |
| HYDRAULIC SYSTEM                                                                      | Dual circuit with independent pumps and heat exchanger                                                                                                                                                                                                                                                                                                                                                                                                      |
| Hydraulic pump flow rate of the power steering and electro-hydraulic controls (l/min) | 33.5                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Hydraulic pump flow rate of the lift and control valves (l/min)                       | 29,5                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Maximum hydraulic pressure (bar)                                                      | 180                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| REAR CONTROL VALVES                                                                   | Mechanically controlled                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Standard                                                                              | 3 double-acting and 1 double-acting with float (total 8 hydraulic outlets)                                                                                                                                                                                                                                                                                                                                                                                  |
| Joystick (optional)                                                                   | Proportional electronic joystick with new ergonomic grip for controlling the rear lift with Dual Floating System® (and front lift if present) and rear control valves consisting of: 1 single-acting, 2 double-acting and 1 double-acting with float (control valves replacing standard ones) without free flow oil return (total 7 hydraulic outlets). Potentiometer for adjusting the hydraulic flow rate. Remote PTO engagement control. Storage armrest |
| REAR LIFT                                                                             | Up/down lift with four external cylinders and Dual Floating System® hydraulic suspension                                                                                                                                                                                                                                                                                                                                                                    |
| 3-point implement hitch                                                               | Standard: Quick-couplings cat. 1 and 2, L-shaped, arms adjustable in length and hooks adjustable in width - Optional: Quick-couplings cat. 1 and 2, arms adjustable in length                                                                                                                                                                                                                                                                               |
| Third point tie rod                                                                   | Standard: with manual adjustment - Optional: hydraulically controlled upper link and tie rod link arm                                                                                                                                                                                                                                                                                                                                                       |
| Ball joint lifting capacity (kg)                                                      | 2300                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| FRONT LIFT (optional)                                                                 | Two-cylinder, complete with front bumper and 4 front hydraulic outlets (replicated from the rear)                                                                                                                                                                                                                                                                                                                                                           |
| Third point arms                                                                      | Rigid with quick-couplings cat. 1                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Lifting capacity (kg)                                                                 | 800                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| DRIVING POSITION                                                                      | Reversible with wide rotating platform suspended on silent blocks. Suspended pedals mounted on the rotating control tower                                                                                                                                                                                                                                                                                                                                   |
| Steering wheel                                                                        | Tilt adjustable                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Seat                                                                                  | With gas spring for easy tipping, safety belt and man-on-board sensor. Standard: comfort seat with armrest and adjustable spring tension according to the operator's weight - Optional: 'Grammer' or 'Cobo' pneumatic seat                                                                                                                                                                                                                                  |
| SERVICE BRAKES                                                                        | Oil bath discs with hydrostatic control, acting on the four wheels with automatic engagement of the 4-wheel drive. Independent manoeuvring brakes acting on the rear wheels                                                                                                                                                                                                                                                                                 |
| Parking brake                                                                         | Automatic and independent Brake-Off acting as emergency brake with proportional action                                                                                                                                                                                                                                                                                                                                                                      |
| STEERING                                                                              | Hydrostatic steering acting on the front wheels. Flow deviator for steering unit                                                                                                                                                                                                                                                                                                                                                                            |
| SAFETY                                                                                | Standard: 6-post semi-cab and beacon lamp                                                                                                                                                                                                                                                                                                                                                                                                                   |
| CABIN (optional)                                                                      | SPACE CLIMA model, homologated and soundproof. Six-post monocoque frame mounted on silent blocks. Fully glazed doors and cloth seat. LED beacon lamp and rear lights. A/C, ventilation and heating system. Car radio preparation. Optional: activated carbon filters                                                                                                                                                                                        |
| DASHBOARD                                                                             | Instrument panel with analogue gauges and TFT digital colour display. Warning lights and horn                                                                                                                                                                                                                                                                                                                                                               |
| ELECTRIC SYSTEM                                                                       | Battery 80 Ah / 12 V - Alternator 95 A                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Standard equipment                                                                    | Vehicle Control Unit, full LED street lights and indicator system, front LED working lights, two USB sockets on the dashboard, rear 7-pin and 3-pin sockets                                                                                                                                                                                                                                                                                                 |
| TYRES                                                                                 | 31x15.50-15 XTC * 31x15.50-15 STG * 440/50-17 All-Ground * 340/65R20                                                                                                                                                                                                                                                                                                                                                                                        |
| TOW HOOKS                                                                             | Standard: front and rear CUNA cat. C adjustable in height - Optional: rear tow hook EC approved or EC with Slider frame or CUNA with Slider frame or EC tow bar with Slider frame                                                                                                                                                                                                                                                                           |
| RUNNING ORDER WEIGHT                                                                  | With semi-cab: 2420 kg - With cabin: 2500 kg                                                                                                                                                                                                                                                                                                                                                                                                                |
| ADDITIONAL OPTIONS                                                                    | Front bumper, front weights 150 kg total and wheel weights 50 kg each, silver and bordeaux 'Special Edition' livery                                                                                                                                                                                                                                                                                                                                         |