

EBRIV





SILENT, POWERFUL, AND ZERO-EMISSION TRACTOR FOR A MORE SUSTAINABLE FUTURE

Municipalities and modern farms increasingly aspire to operate in a more sustainable way by reducing exhaust and noise pollution emissions.

To support them in their mission, FERRARI presents e-Astral, a compact and multifunctional isodiametric tractor with 100% electric power supply.

Highly specialized DNA, premium features, and modern design for an innovative tractor that fully unleashes the power of its two electric engines installed under the hood.

APPLICATION FIELDS

e-Astral is available in two versions:

- ✗ 'AR' with an articulated chassis, a minimum width of one meter, and a turning radius of only 2.5 meters;
- ✗ 'RS' with a traditional chassis featuring steering wheels and a dual brake pedal used to reduce turning radii.

The major application fields of e-Astral are:

- ✗ in municipalities for green maintenance work and snow removal in urban centres;
- ✗ in horticulture and animal husbandry for use in enclosed areas, such as greenhouses and stables;
- ✗ in specialised agriculture for all narrow space applications in vineyards and orchards.



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URARI

BE NEXT BE GREEN BE ELECTRIC

100% ELECTRIC

Under the bonnet of the e-Astral are two electric motors: the first 16 kW motor serves the hydraulic system, power steering and services while the second 25 kW motor is dedicated to traction.

INSTALLED ELECTRICAL POWER

A total of 41 kW of pure power to ensure high performance and sufficient autonomy.

AUTONOMY

New e-Astral has an autonomy of 3 to 6 hours depending on the application and working conditions.

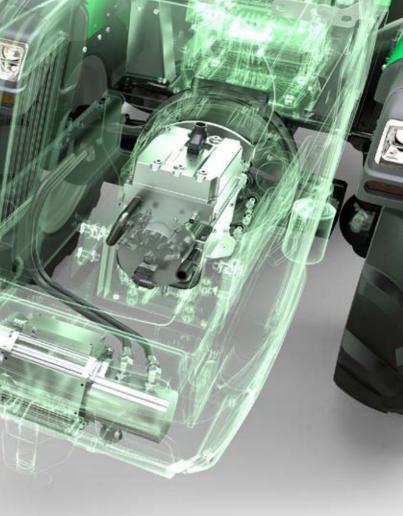
RECHARGING

With 6 kWh input, the battery recharge time to 80% is about 3 hours.

THREE OPERATING MODES

The advantage of the two motors is the ability to manage power according to the task at hand for more efficient use of the tractor and longer battery life:

- M Traction mode « T » : maximum power available on the traction motor while the hydraulic pump.
- W Hydraulic mode « H » : the traction motor is switched off and the hydraulic motor splitter.
- Full mode « T+H » : both motors are switched on. This mode is useful for the most the same time, hydraulic power to lift and/or adjust and/or operate the equipment.



motor runs at idle, only for power steering needs. Useful mode during transfer or for stationary work and implement driven by the pto such as with chipper or irrigation

is switched on. In this mode, the tractor becomes a hydraulic power unit, useful for connecting/disconnecting implements to the tractor or, for example, for operating a log

common jobs carried out by the tractor that require movement of the machine and, at

HIGHLY SPECIALISED DNA

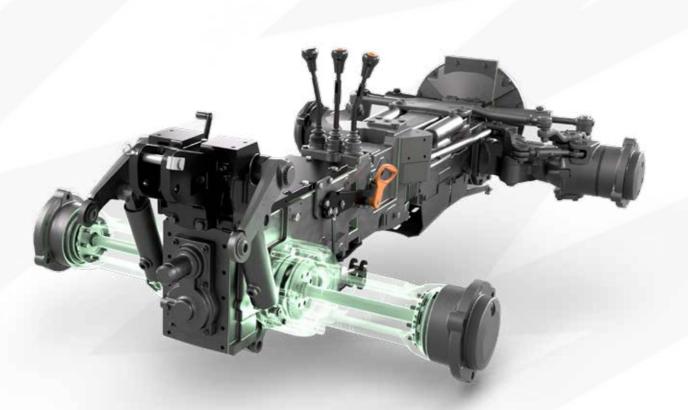
The transmission Made in FERRARI is equipped with a 12-speed forward plus 12-speed reverse gearbox with synchronised reverser and a new multi-disc in oil bath clutch.

The 24-speed synchronised gearbox allows you to always select the most appropriate gear for the job at hand, making the e-Astral highly productive in all circumstances.

The wet multidisc clutch is significantly softer and better performing than conventional dry clutches.

The adoption of this type of hydraulic clutch, fitted within the transmission, brings numerous concrete advantages:

- qreater durability
- maintenance-free
- maximum manoeuvrability thanks to the tractor's more compact dimensions.



TOP-OF-THE-RANGE HYDRAULICS

The spread of fully hydraulic vineyard and orchard attachments led to the redesigning of the hydraulic system to achieve performance appropriate to the target attachments of this tractor range.

Two systems are available for actuating the rear control valves: via mechanical control valves or via a new proportional, multifunctional electronic joystick.

The lifting capacity at the ball joints is an impressive 1,510 kg, and category 2 is now available with length- and width-adjustable L-arms.

An independent wet multi-disc clutch operates the rear PTO with an electro-hydraulic solution that manages activation according to tractor, motors and safety conditions.



REVERSIBILITY **OF THE DRIVING POSITION**

e-Astral is also available with a reversible driving position, which increases its versatility, efficiency and safety, making it suitable for many agricultural and other applications.

A few seconds are all it takes for the operator to rotate the driving position module consisting of the seat, steering wheel and dashboard by 180° so that he/she can work with the implement mounted on the rear lift but with front use, reducing fatigue and improving driving position comfort.

The reversible driving position also facilitates manoeuvring in confined spaces or near obstacles, thanks to the ability to optimally position itself for manoeuvring.

COMFORT AND 360° VIEW

The 'Vista Clima' cab with 4 uprights features a conical and compact profile to easily exit tight rows, also on side slopes.

Thanks to the large fully glazed windows and portholes, present both at the bottom and on the roof, the 'Vista Clima' cab offers a 360° unobstructed view of the wheel track, attachments

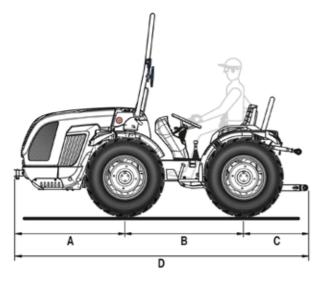
Equipped with standard ventilation, heating, and air conditioning, the cabin ensures a highly comfortable working environment throughout all

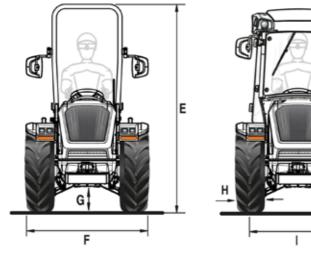
IOT SOLUTIONS FOR SMART AGRICULTURE

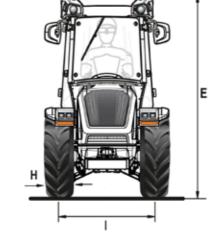
e-Astral's IoT solutions consist of the integration of Internet-connected devices and sensors that allow real-time data to be collected, analysed and shared, such as:

- Visualisation of master data and machine position via portal and web maps;
- Monitoring of machine operating parameters such as battery consumption, fluid temperature, engine revs, battery level, etc.;
- Tracking and recording of machine passes in the field;
- Remote control of certain machine functions.

e-ASTRAL AR







A	В	С	D	E min / max (with roll-bar)	E min / max (with cab)	F min / max	G min / max
1248	1390	779	3417	2195 / 2270	2061 / 2106	1002 / 1438	200 / 275

Dimensions in mm

	8.25-16	210/95 R16	250/80-18	280/70 R18	280/70 R18 Garden
	with adjustable rim				
н	212	208	240	282	282
Т	794 / 1110	794 / 1110	865 / 1107	869 / 1119	869 / 1119
F	1006 / 1322	1002 / 1318	1105 / 1347	1151 / 1401	1151 / 1401

	320/65 R18	260/70 R20	31x15.50-15 XTC	31x15.50-15 STG	33x15.50-15 XTC
	with adjustable rim	with adjustable rim	with fixed rim	with fixed rim	with fixed rim
н	319	258	368	394	391
1	931 / 1119	846 / 1120	1003	1003	1003
F	1250 / 1438	1104 / 1378	1371	1397	1394

Dimensions in mm - min / max

H = Tyre width - I = Wheel track - F = Tractor width

TECHNICAL FEATURES	e-ASTRAL AR		
ENGINE	Electric Total installed electrical power 41 kW		
Batteries	Lithium Voltage 48 V Capacity 36 kWh		
Autonomy	3 to 6 hours depending on application and workin		
Charging time	Battery charging time with 6 kWh input: approx. 3		
CHIASSIS	Swinging integral chassis (±15°) OS-FRAME with o		
DRIVE	Permanent four-wheel drive		
TRANSMISSION	24-speed synchronised gearbox: 12 FWD and 12		
Min/max travel speed (km/h)	0.6 / 35		
Transmission clutch	Multidisc in oil bath		
DIFFERENTIAL	Front and rear with simultaneous locking and elec		
AXLES	Front and rear with planetary reduction units		
REAR PTO	Independent from the gearbox and synchronised		
PTO clutch	Multidisc in oil bath with electro-hydraulic control		
PTO rotation speed (rpm)	540/540E		
HYDRAULIC SYSTEM	Dual circuit with dedicated electric engine		
Hydraulic flow rate of the power steering and electro-hydraulic controls (I/min)	17		
Hydraulic flow rate of the lift and control valves (I/min)	23 (optional circuit with increased flow rate 33.5 l/		
Maximum hydraulic pressure (bar)	180		
REAR LIFT	By two external cylinders. Standard: up/down lift		
3-point implement hitch	Standard: normal couplings cat. 1 - Optional: quic in width		
Third point tie rod	With manual adjustment		
Ball joint lifting capacity (kg)	1510		
REAR CONTROL VALVES	Mechanically controlled		
Standard	With rear up/down lift: 1 double-acting and free flo double-acting, 1 multifunctional double-acting and		
Optional	With rear up/down lift: up to 7 hydraulic outlets in		
Joystick (optional)	Proportional electronic control of rear lift and cont return, 3 double-acting (replacing the standard on		
DRIVING POSITION	Monodirectional or reversible with rotating platform		
Steering wheel	Height adjustable		
Seat	Comfort seat with adjustable suspension accordin		
SERVICE BRAKES	Multidisc in oil bath with mechanical control, actin		
Parking brake	Acting on service brakes		
STEERING	Hydrostatic steering acting on the central joint. Flo		
SAFETY	Front homologated roll-bar with gas spring for eas		
CABIN (optional)	VISTA CLIMA model, homologated and soundpro heating and air-conditioning system. Fabric seat, o		
DASHBOARD	Instrument panel with analogue gauges and TFT of		
Standard equipment	Vehicle Control Unit, LED street light and indicator		
TYRES	Tractor: 8.25-16 * 210/95R16 * 250/80-18 * 280/7(* 31x15.50-15 STG * 33x15.50-15 XTC		
TOW HOOKS	Standard: front and rear CUNA cat. B adjustable in Slider frame or EC tow bar with Slider frame		
RUNNING ORDER WEIGHT	With roll-bar: 1660 kg - With cabin: 1740 kg		
ADDITIONAL OPTIONS	Recharge cable kit 25 A 3 phases 16.5 kW with 6 a working light, front weights 110 kg total and wheel		

ing conditions

3 hours (20 to 80%) - approx. 5 hours (0 to 100%)

central articulation

2 REV with synchronised reverser

ctro-hydraulic control

I with forwarding speed. Negative safety hydraulic brake to stop the PTO

l/min)

- Optional: position and draft-controlled

ick-couplings cat. 1 and 2, L-shaped, arms adjustable in length and hooks adjustable

flow oil return (total 3 hydraulic outlets) - With position and draft-controlled rear lift: 1 nd free flow oil return (total 5 hydraulic outlets)

n total and free flow oil return

ntrol valves consisting of: 1 continuous flow with adjustable flow rate and free flow oil ones) and circuit with increased flow rate (total 8 hydraulic outlets)

rm suspended on silent blocks and twin pedal assembly

ling to the operator's weight, safety belt and man-on-board sensor

ing on the rear wheels

low deviator for steering unit in the reversible version

asy lowering and lifting

oofed with monocoque body with a 4-upright suspended on silent block. Ventilation, t, car radio preparation, LED beacon lamp, front and rear working lights

digital colour display. Remaining charge indicator, warning lights and horn

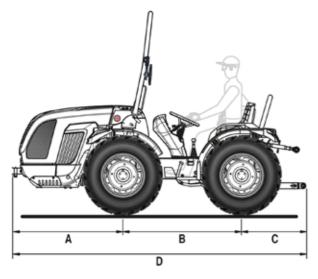
or system, single-pole dashboard socket, rear 7-pin socket

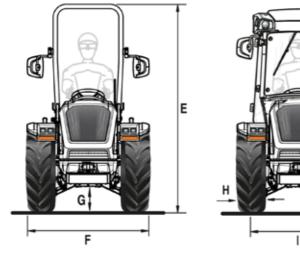
70R18 * 320/65R18 * 260/70R20 | Garden: 280/70R18 | Terra Tyre: 31x15.50-15 XTC

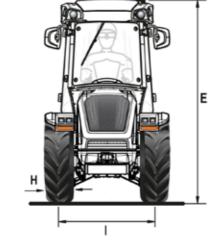
n height - Optional: rear tow hook EC approved or EC with Slider frame or CUNA with

adapters, front bumper, beacon lamp, front LED working lights, rear adjustable l weights 45 kg each

e-ASTRAL RS







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Dimensions in mm

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	with adjustable rim				
н	212	208	240	282	282
I	999 / 1305	999 / 1305	996 / 1312	984 / 1324	984 / 1324
F	1211 / 1517	1207 / 1513	1236 / 1552	1266 / 1606	1266 / 1606

	320/65 R18	260/70 R20	31x15.50-15 XTC	31x15.50-15 STG	33x15.50-15 XTC
	with adjustable rim	with adjustable rim	with fixed rim	with fixed rim	with fixed rim
н	319	258	368	394	391
Т	1074 / 1324	987 / 1325	1100 / 1208	1100 / 1208	1100 / 1208
F	1393 / 1643	1245 / 1583	1468 / 1576	1494 / 1602	1491 / 1599

Dimensions in mm - min / max

H = Tyre width - I = Wheel track - F = Tractor width

TECHNICAL FEATURES	e-ASTRAL RS		
ENGINE	Electric Total installed electrical power 41 kW		
Batteries	Lithium Voltage 48 V Capacity 36 kWh		
Autonomy	3 to 6 hours depending on application and workin		
Charging time	Battery charging time with 6 kWh input: approx. 3		
CHIASSIS	Swinging integral chassis (±15°) OS-FRAME with s		
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TRANSMISSION	24-speed synchronised gearbox: 12 FWD and 12		
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digital colour display. Remaining charge indicator, warning lights and horn

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70R18 * 320/65R18 * 260/70R20 | Garden: 280/70R18 | Terra Tyre: 31x15.50-15 XTC

n height - Optional: rear tow hook EC approved or EC with Slider frame or CUNA with

adapters, Dual Floating System™ hydraulic suspension including 5 hydraulic outlets p, front LED working lights, rear adjustable working light, front weights 110 kg total and





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