

BELLAVISTA



Leafy Greens Harvesting & Handling

BELLAVISTA

Bellavista is the first harvester in the world developed to solve the problem of the foreign bodies in the harvested product, both in tunnel and open field crops. To obtain this ambitious result and bring it with confidence to the farmers' fields, Bull-one has collaborated with important brands such as Bosch Rexroth, in order to obtain an effective, reliable and long-lasting product; allowing operators to benefit every day from a versatile, comfortable and easy to use product.

RUGGED OPTICAL SORTER, BORN FOR AGRICULTURE

The Bellavista HC is equipped with a cutting edge high resolution [optical sorter](#) capable to examine the product using the "high speed double vision system" to analyse 100% of the surface of each object.

This rugged optical sorter, is used to sort directly on the harvester the delicate leafy greens, but even tomatoes, potatoes, onions and much more



8 t/h
17700 lbs/h
Adult and Teen leaves
95% sorting efficiency

3,5 t/h
7800 lbs/h
Baby leaves
95% sorting efficiency

BENEFITS COMPARED TO THE AIR JUMP SYSTEM

With the air jump, heavy foreign bodies can be easily removed, while light foreign bodies such as dry leaves, plastic film, dry wood, feathers are not intercepted because the system treats them like the leaves of the collected product.

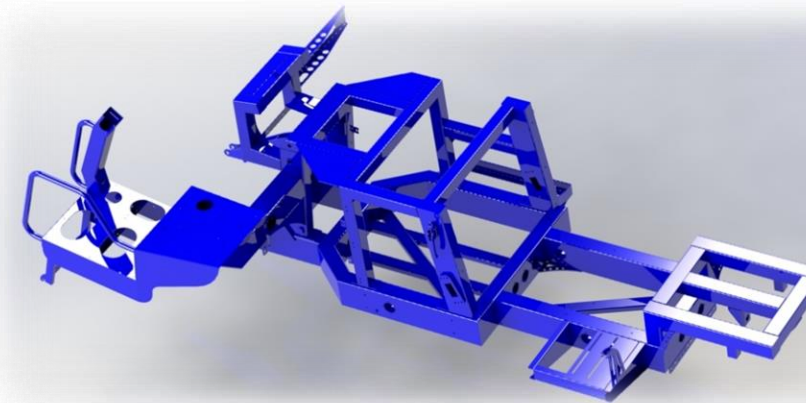
The optical sorter sees and intercepts the light foreign body in flight, diverting its trajectory and directing it in the waste area, away from the product that will end up in the containers that will be transferred to the processing plants, saving the line entry selection stage.

ADVANTAGES COMPARED TO THE SHAKER BELT

A good shaker belt must have generous dimensions, a great shaking power and a passage light of the foreign body lower than the size of the leaf that is being collected.

The purpose of the sieving stage is therefore to remove soil residues, cutting residues and possible small foreign bodies.

All the rest is entrusted to the next selection stage, where we find the optical sorter able to intercept in flight any foreign body with minimum dimensions of 1cmq!



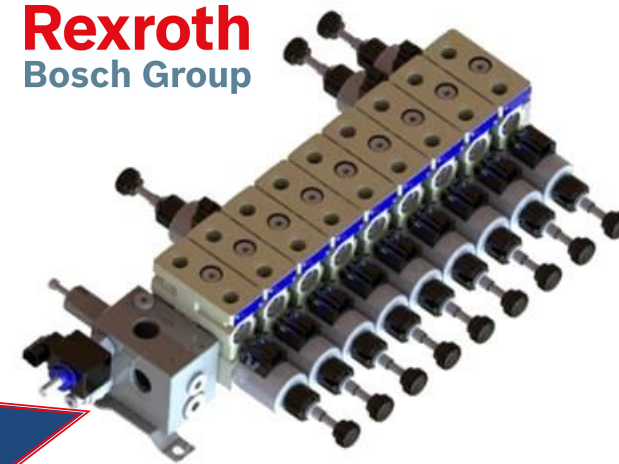
SOLID CHASSIS WITH HIGH PROTECTION FROM RUST STAINLESS STEEL ON REQUEST

- **S355 STEEL GRADE:** the strongest structural steel available on the market
- **CATAPHORESIS TREATMENT:** protect the frame from the rust outside and inside with the cataphoresis bath treatment
- **DOUBLE LAYER POWDER COATING:** the best chemical protection for the outside surfaces, choose your favorite color!

OPTIMIZED HYDRAULIC SYSTEM

Through the PWM Valve CANBUS actuated and the Load Sense plant the hydraulic system identifies the necessary oil amount to perform the activities, mainly the rotating devices flow. With this control, there is on average plus 5 hp, saving up to 3,7% on fuel, guaranteeing an average fuel consumption of 5,5 lt/h

Rexroth
Bosch Group



3,7 %
Fuel saving



Kohler KDI2504-TCR

The new Harvesters line is equipped with a KOHLER KDI2504-TCR with 75 hp electronic engine, complying with the stage V - EPA legislation on the agricultural segment. The engine adjusts according to the harvesting needs, saving fuel and increasing lifespan. Besides, the engine has low pollutants emission, less noise and vibration. Ordinary maintenance each 500hrs



SMART TRANSMISSION

With the 4x4 Rexroth transmission, the information is seen on the 12" touch screen display and the diagnoses happen in real time, through the Bull-one remote connection

CRUISE CONTROL

The system offers comfort and convenience to the operator. By pressing a single button on the joystick, the harvester speed is adjusted.

MOTORI RUOTA - REXROTH

The wheel motors are equipped with two speed ranges, these allow the harvester to maintain maximum hydraulic performance at any speed as well as excellent starting torque to overcome any obstacle.

TRACTION CONTROL SYSTEM

The traction control is electronic and integrated. It allows real-time monitoring and instantaneous reaction. The controlling ensures better performance on rough and humid terrains

*HYDRO
ELECTRONIC
TRANSMISSION
4X4*



TRANSPORT MODE
UP TO 15 KM/H - 10 Mph



FOUR WHEELS STEERING MODE
UP TO 8 KM/H - 5 Mph

SMART 4-WHEEL STEERING SYSTEM

*UP TO 45% ON CROP DAMAGE
REDUCTION*

The smart 4-wheel steering and the automatic steering feedback allow turning radii 42% smaller than conventional systems, providing fast steering and reducing crop damage.

PARKING/SAFETY BRAKES

The autonomous parking brake, located on each individual wheel, let the operator to leave the harvester safe on any kind of terrain, even in case of engine, electric or hydraulic faults.

HIGH CLEARANCE FOR STANDARD 40cm - 16" (minimum)

Rexroth
Bosch Group



The Bellavista HC have 0,4-meter-height (16") clearance, and carriages available to 1,6mt to 2,1mt (63" to 83"). The application can be higher with bigger wheels, which allows 5 cm (2") increment on the clearance spacing. At this point, the crops are on advanced stage, guaranteeing more safety and productivity in the future cutting phases of the same crop.



**NARROW TRACK CONVERSION
KIT AVAILABLE - 300MM WIDE (12")**

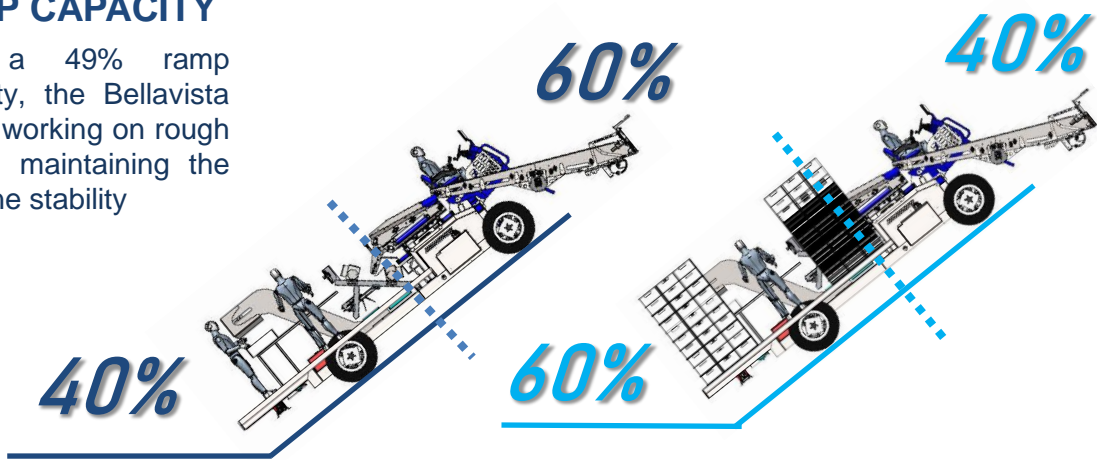


BULL-ONE



RAMP CAPACITY

With a 49% ramp capacity, the Bellavista allows working on rough terrain, maintaining the machine stability



WEIGHT DISTRIBUTION

All the components of the harvester have been positioned in order to distribute the weights 60% on the front and 40% on the rear, finding the best compromise both empty and fully loaded.

RAMP CAPACITY

49%

38% full loaded (6000kg)

TECHNOLOGY

12" DISPLAY

Complete Controller that gathers sorter and machine information into a single and modern device, with practical and straightforward access.



IP65 ARMREST

All functions are easily recognizable on the new intelligent armrest, equipped with proportional controls and double display!



DRIVING POSITION

- ✓ MORE COMFORT
- ✓ MORE ERGONOMIC
- ✓ MORE VISIBILITY

WATERPROOF SEAT WITH MECHANICAL SUSPENSION

Comfortable seat in blue synthetic leather, with mechanical suspension for standard



AGRICOLTURA 4.0



REMOTE CONNECTION

BELLAVISTA is equipped with a device that allows communication between the machine and its technical support in order to get rapid and effective remote assistance.



GPS POSITIONING

BELLAVISTA, is supplied for standard with a GPS positioning system which allows to detect the harvester monitoring the path on the field and measure the harvested areas.



VR MAINTENANCE GLASSES

Thanks to smart glasses it is possible to get real-time remote assistance with our service. Our technicians can help you troubleshooting and prevent machine stop.



TELEMETRY – MACHINE DATA COLLECTION

You can see all the parameters of the machine over time, power, consumption, how all the rotating parts and valves have worked.

BULL-ONE



BELLA VISTA



CUTTING HEAD

Belt width	1400 ÷ 1700 mm (55" ÷ 67")
Belt material	Blue PVC double coated - FDA
Belt tensioning	With "omega" winding - blue FDA rubber traction roller
Blade pulleys	4 - FDA rubber
Cutting height sensors	2 - electronic - with adjustable height and width

SHAKER

Working length	1100 mm (43")
Width	1600 mm (63")
Chain speed	30 rpm ÷ 80 rpm
No. beaters	2
Beater speed	40 rpm ÷ 100 rpm
Standard metal mesh (triangular shape)	Width = 16 mm (19/32") Height = 22 mm (25/32")

OPTICAL SORTER

Manufacturer	MATE srl
Model	Field sorter
Ejection channels no.	70
Ejection channel size	25 mm (1")
Air consumption	170 NI/min (6 cfm)
Operating pressure	4 ÷ 6 Bar (60 ÷ 90 psi)

OTHER BELTS

Good product	Blue PVC double coated - FDA
Rejects shaker	Blue PVC double coated - FDA
Discarded product	Blue PVC double coated - FDA

TRACTION - WHEEL TRACK

Manufacturer	Bosch Rexroth
Model	4RM - Electronic hydrostatic
Maximum working speed	8 Km/h (5 Mph)
Maximum transfer speed	15 km/h (10 Mph) - <i>electronic limitation</i>
Wheel track	1600 ÷ 2100 mm (63" ÷ 83")
Standard wheels (Front - Back)	7.5-20 FRONT – 7.5-16 REAR
Functions	Cruise control - Electronic anti-slip regulation

ENGINE

Manufacturer	KOHLER ENGINES
Model	KDI2504-TCR
Engine size / No. of cylinders	2500cc / 4 cylinders / Turbo common rail
Power	75 HP
Torque	300 Nm @ 1500 rpm
Accessories	CAN-BUS electronic control with Kohler ECU
Standard emissions	Stage V – EPA

ELECTRICAL INFORMATION

Voltage	12V
Battery	110Ah
Generator	80Ah
Ecu	EPEC mod.3724 - CAN BUS
Human Machine Interface (HMI)	Joystick IP67 + IP66 display
Lights	LED flood + spot

WEIGHT - DIMENSIONS - CAPACITY

Dimensions W x H x L	2720mm x 2400mm x 6600mm (8' 11" x 7' 10" x 21' 7")
Weight with oil and fuel tank empty (no cabin)	3650kg (8047 lbs)
Turning radius (with 2000 mm wheel track)	3700mm (12' 1")
Fuel tank	80 LT (21 Gal)
Hydraulic oil tank	180 LT (47 Gal)
Complete hydraulic system	210 LT (56 Gal)
Hydraulic oil	Panolin ORCON SYNTH-E ISO VG46 NSF H1 + Biodegradable

CONNECTION AND POSITIONING

Unit	EPEC 6200
Connection	GSM / UMTS / HSPA+ (LTE on request)
Positioning	GPS, GLONASS, BeiDou/Compass, Galileo, QZSS

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