

ZP2

2-ROW SELF-PROPELLED

BRUSSELS-SPROUTS HARVESTER



DEMAN
AGRO

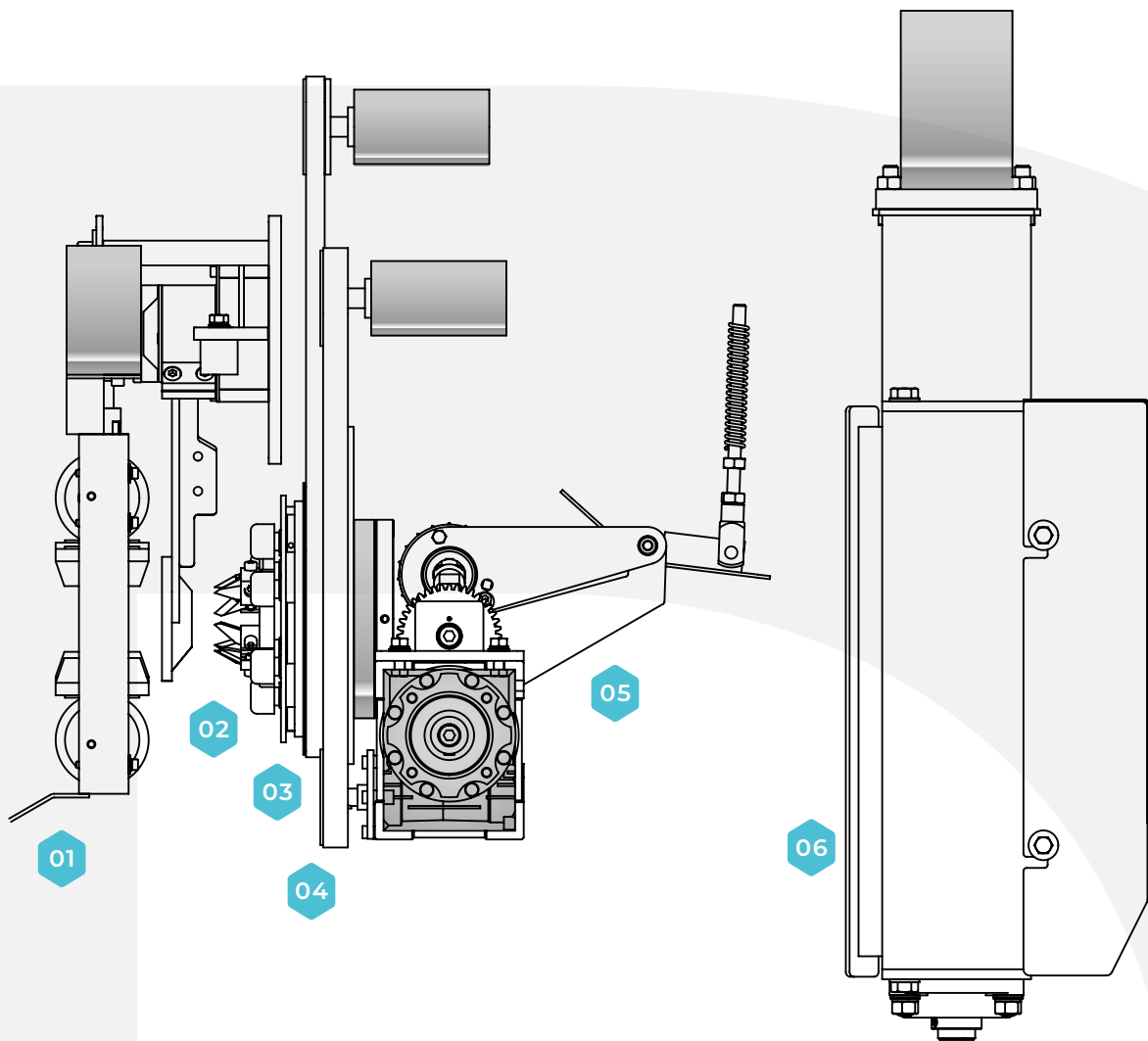
DEMAN HARVESTERS,
**OUTSTANDING
PERFORMANCES AND
QUALITY YOU CAN RELY ON**

A Deman machine owner is characterized by dedication and determination. A hard worker, reliable and proud of his profession. A vision that aligns perfectly with our philosophy and our products. Trustworthy, economical and high-performing machines that harvest crops in a swift yet gentle manner, providing a new dimension to your harvesting process.



**WE'VE GOT
YOUR BACK**





OBTAINING A BETTER CUT

All components of the Deman plucking system are developed and produced in-house with one goal in mind: providing the best picking results in every condition. Each component has been studied in detail to obtain an extremely reliable system. Standardized components are carefully selected and are available worldwide.

**01. EJECT ROLLERS**

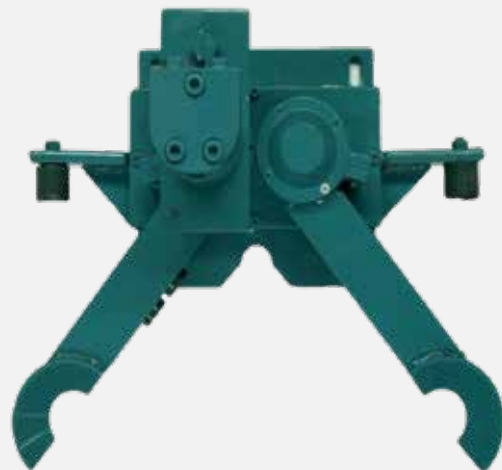
The clipped leaves are removed from the picking unit by the rotating eject rollers. The picking unit is free of leaves at all times, providing a faster harvest when a new plant is brought in.

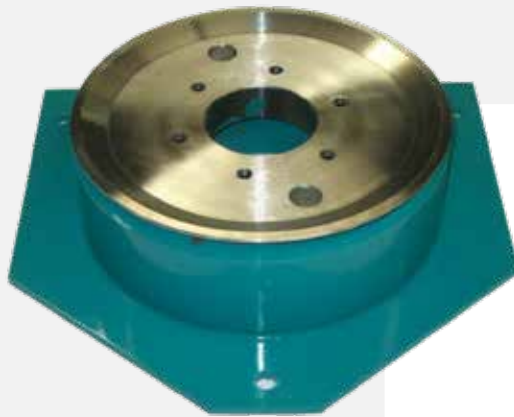
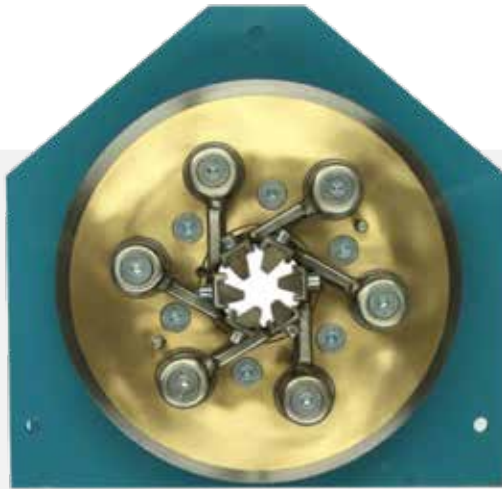
Improved operation

The rollers run at low speed in wait mode. After a predetermined period, the rollers resume to run at full speed. Shock inducing loads on the casing are kept to a minimum. The frame is made of stainless steel, ensuring food safety.

02. CENTRING MECHANISM

The centring mechanism enables easy and fast picking. Sprouts can be picked quickly as the stem is automatically centred between the blades. A simple and robust construction that is maintenance-free.





03 & 04. PICKING HEAD AND HEADPLATE

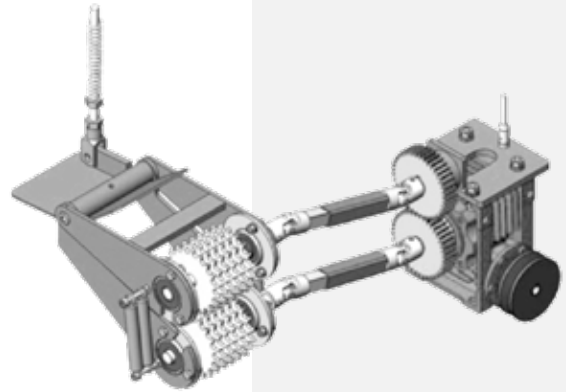
All components are made from exceptional steel and are constructed with the utmost precision on CAD-controlled machines. The blades are made from specialised Cr Mo V-steel and are hardened and sharpened on specialised machines.

The sprouts are cut with hydraulically controlled picking pressure which can be increased or decreased towards the top of the stem. Various types of cutting blades can be mounted on the picking head.

Two large main bearings ensure a steady picking head. This results in a low-maintenance and a long-life picking unit.

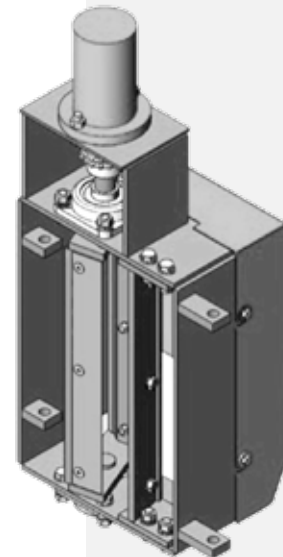
05. INTAKE ROLLERS

The intake rollers are mounted on a pivot and are held in position by an adjustable spring. The two rollers are held with strong springs, ensuring that the stem is firmly centred in the picking head.



06. CHOPPER

A strong and robust chopper cuts the stem into small pieces. The clipped pieces are removed from the machine and remain on the field as natural fertilizer.

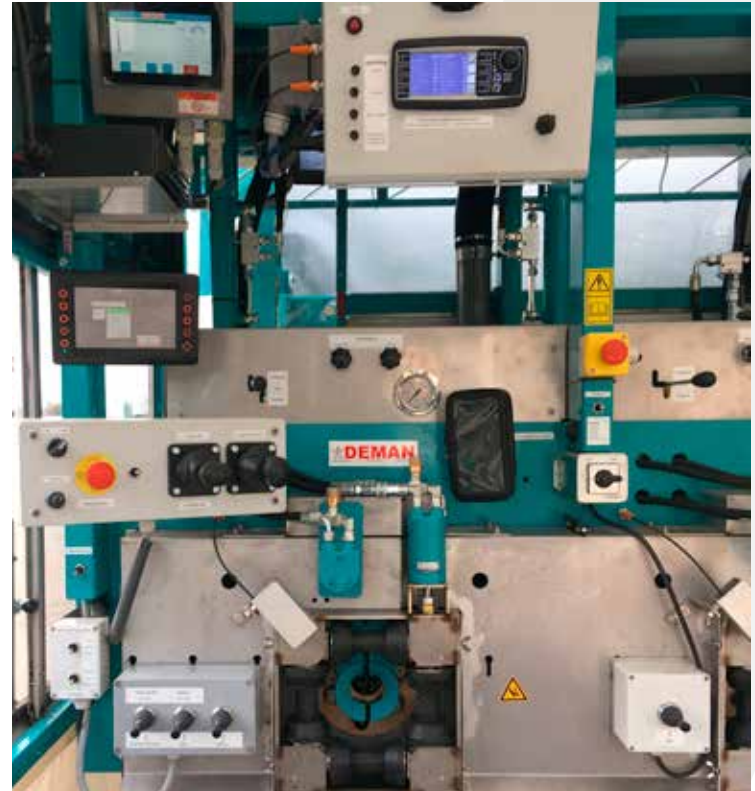


07. SAWING UNIT WITH ALIGNMENT SETTING

The sawing units are suspended on a steel cable and can move simultaneously to the left or to the right. In this alignment setting, the distance from the sawing unit to the edge of the cabin is adjustable, in case sprouts have fallen to a particular side.

08. LARGE CABIN

The cabin of the harvester offers every conceivable comfort to enable you to cope with long harvesting days. The bright 220 ACV lights allow you to maintain focus and keep productivity at a high level.



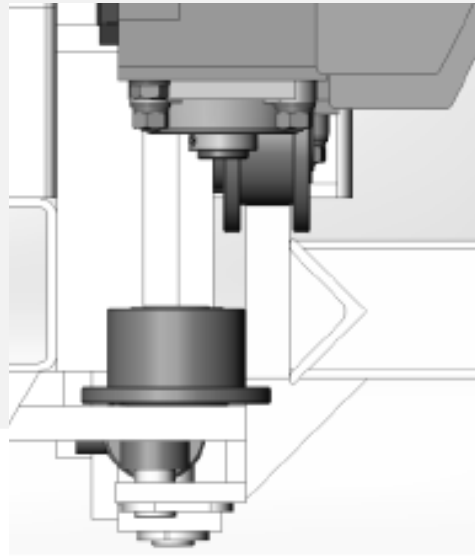
09. HMI IN ALL LANGUAGES

The HMI provides visualization of the entire machine. Simple graphic icons clearly and intuitively show the operator the different system functions. A handy feature, available in all languages.

MANUAL AND AUTOMATIC DRIVING

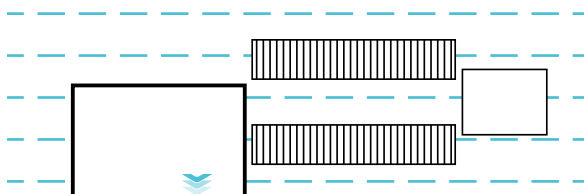
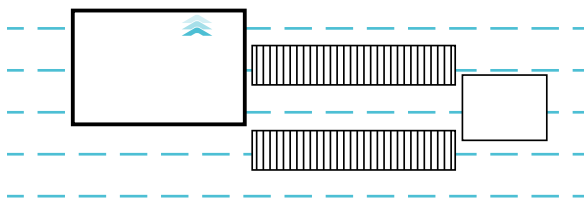
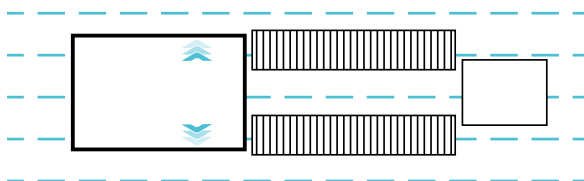
Guaranteed easy driving, under any circumstance. The dependable autopilot feature does not see curves as obstacles, ensuring a swift harvest with minimal delay. Thanks to the central PLC, you can set multiple parameters to maintain full control of your machine.





10. CABIN WITH SIDE SHIFT

The entire cabin is installed on four large steel wheels with sliding bearings. This allows you to drive as close as possible to the sprout plants. Damage to the sprouts and mud accumulation is minimised. DEMAN has reinvented the side-shift principle and made it extremely compact.





11. USE OF SIEVES

A sieve is installed on the conveyor belt to remove small leaves from the sprouts. This simple and effective solution handles the harvested sprouts in a gentle manner.



12. POWERFUL TURBINE

A powerful turbine removes all the clipped leaves before the sprouts are transported to the bunker. The compact and effective design guarantees efficient suction power. The leaves are blown towards the ground, ensuring that the products are not contaminated with the juice of the pulverised leaves.



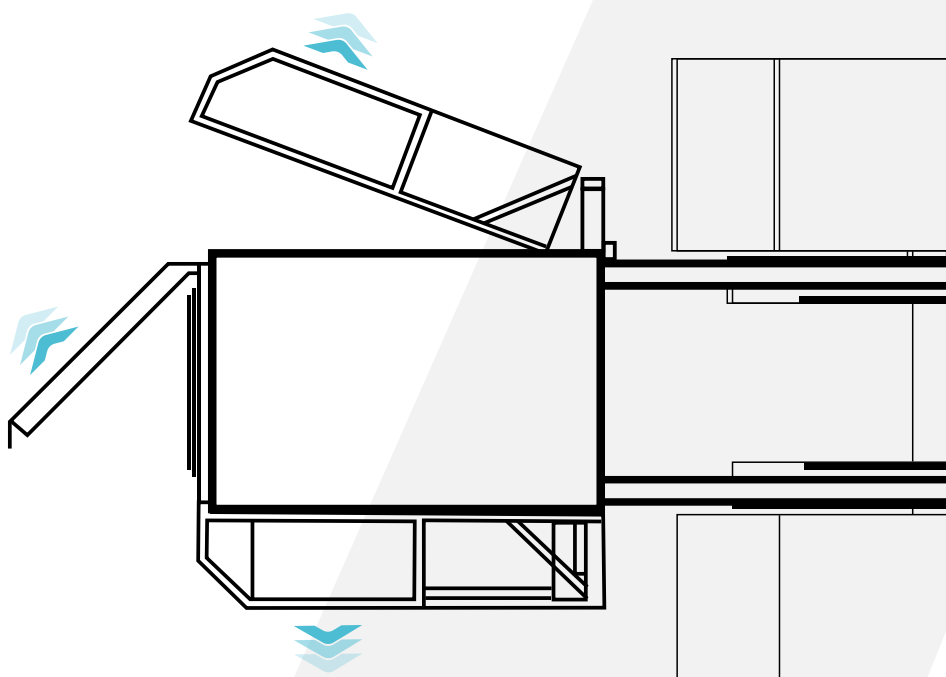


13. MODERN DRIVE LINE TECHNOLOGY

Bimotor power packs for heavy duty applications range from 63 kW to 407 kW, meeting the most restrictive homologation levels (StageV, EPA Tier4B). The FPT range is marked by a high degree of modularity within the different engine families (F5: F36, NEF: N45 and N67, CURSOR: C87, C13, C16) and the consequent familiarity of application technologies. Aware of the difficulties associated with the integration of a StageV/Tier4B engine, Bimotor opted to launch a series of plug and play products that could simplify the OEM's installation activities while significantly streamlining field validation activities. The standard scope of supply includes radiator with blower or suction fan, wired exhaust line installed on board the engine, filtering system for combustion air, fuel, and lubricant, front and rear rigid mounts, and vehicle connection interface.

14. MAXIMUM ACCESSIBILITY

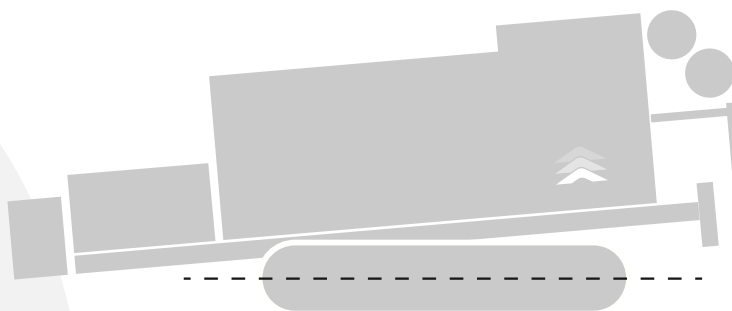
The engine and hydraulic compartment are designed for maximum accessibility, providing easy access when engine maintenance is required.



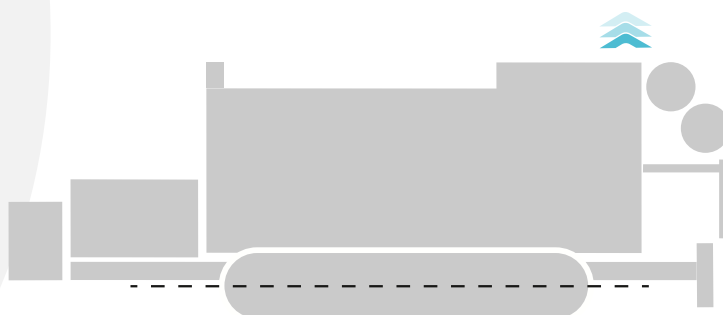


15. MAST DESIGNED CABIN

The newly designed mast cabin keeps the chassis level under any circumstance. When the caterpillar tracks sink into wet ground, the conventional design pushes the cabin up and the engine compartment down, resulting in an engine compartment that is situated near the surface in very wet conditions. The new mast design keeps the machine level at all times. When the caterpillar tracks sink, the mast raises the cabin, keeping the system level and ensuring maximum clearance below the engine.



Conventional design



Mast design

16. TELEMATICS

The Deman telematics system, linked to the sprout pickers' PLC, collects data and stores it in the cloud.

This data can be consulted via Capture, a convenient and user-friendly framework that you can log into online.

This way, users can remotely check the various parameters and performance of their machine.

This has many advantages. For instance, as a user you can select a period during which you get information on:

- where the machine has driven
- how much was harvested
- what the fuel consumption was
- when the machine has been stationary and for how long

Contacting workers or going on site is no longer necessary, as actual data can also be checked in real time.

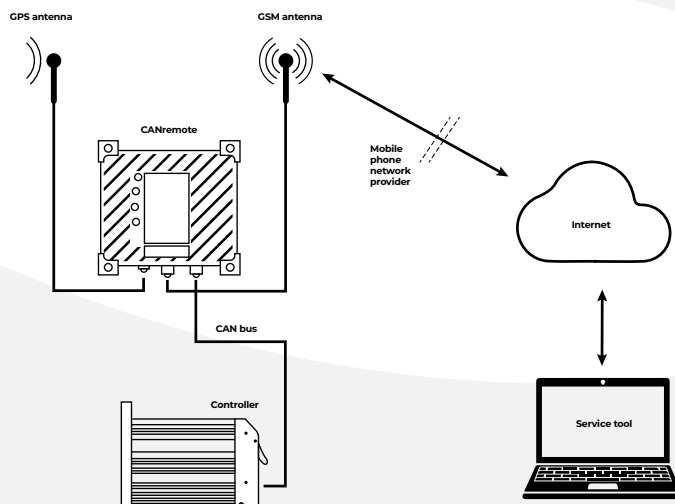
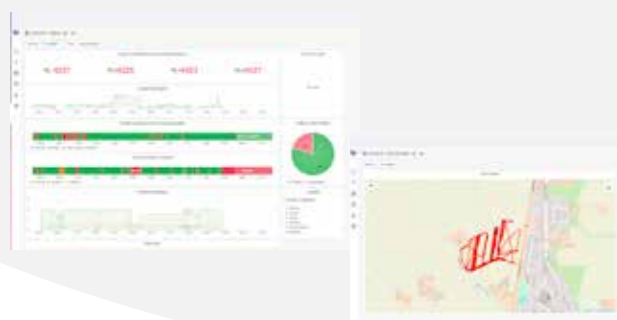
Among other things, you can check:

- the machine's location (via Google maps)
- what the machine is currently doing
- at what speed the diesel engine is running
- how full the bunker is
- what the current fuel consumption is
- how much diesel is available



An additional advantage is that we can check the various sensors remotely, so any malfunctions can quickly be detected and remedied.

This way, if a problem should occur in the field, a diagnosis is quickly made and any necessary action can be taken swiftly.



STANDARD CONFIGURATION
Eject Rollers
Centering Mechanism
Storage for personal materials (side doors)
Radio with Bluetooth
Digital dashboard
HMI interface for visualization and settings
Fencing system (without quick coupling and legs)
3-channel camera
Track chassis S6/30 FL4-1770X (2960-3544) <ul style="list-style-type: none"> - 53 plates of 500 mm - Bosch hydromatic-Transmetal Bonfiglioli-Berco chains
Iveco diesel engine F36 STAGE V -75kW at 2200tr- 4 cylinder- 4.5 liter turbo intercooler
Heating 4DL Airtronic
Weight empty: 9,000 kg
Bunker volume: 7.5 m ³ (3m length)
Central lubrication for bearings

OPTIONS
Row distance between Brussels-sprouts 600mm - 750mm
Unloading conveyor belt on bunker
Second diesel tank 225l
Hydraulic quick couplings for disassembly of picking portion-row work
Row work with plate width 600mm





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