MC/HAT/TAT
BELT CONVEYORS

ML
STORE LOADERS

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PRODUCT-FRIENDLY TRANSPORT AND STORAGE

When it comes to transporting potatoes, Dewulf's knowledge and experience are unrivalled. The quality of the latest generation belt conveyor has been achieved by working closely with our end users. As a result, our innovative belt conveyor and store loaders provide maximum capacity, a voluminous product flow and less risk of damage. The strength of Miedema machines lies in their simplicity, which makes them thoroughly reliable and virtually indestructible.

USER FRIENDLY

Since their introduction Miedema conveyors and store loaders have drawn many enthusiastic users. The machines feature innumerable unique elements that make them easier to use, and often such hidden details are exactly what makes working with a machine so enjoyable – details like neatly concealed cables and fully maintenance-free drum motors with thermal overload protection.

SAFETY AND CONVENIENCE

Dewulf has created an intelligent system called Start-Control that interconnects all the Miedema storage machines. This allows you to start the entire storage line with the remote control for the store loader. First the store loader/box filler starts, then the conveyor and finally the receiving bunker. When the receiving bunker is empty, all the machines in the storage line stop simultaneously. Pressing an emergency stop on any machine in the chain also stops all the machines straight away. The ingenious Start-Control system both ensures optimal filling of the belts to minimise product damage and eliminates the massive current draw that would otherwise occur if all the machines were started at the same time. So it not only adds to the ease of use but also results in the most economical storage method.

MC, HAT & BELT CONVEYORS

CONTROL BOX

Convenient operation from either side is the defining feature of the centrally located control box.
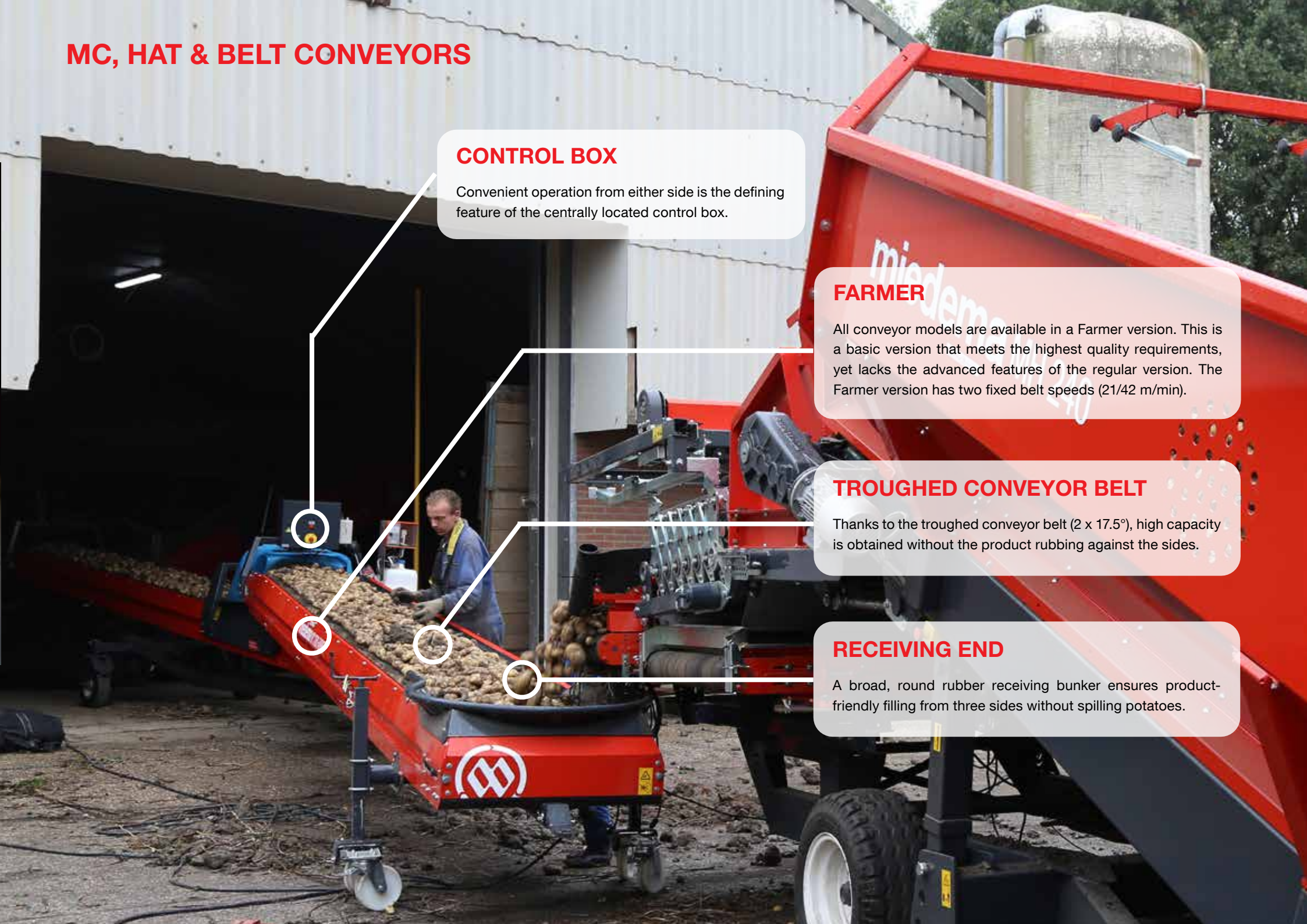
FARMER

All conveyor models are available in a Farmer version. This is a basic version that meets the highest quality requirements, yet lacks the advanced features of the regular version. The Farmer version has two fixed belt speeds (21/42 m/min).

TROUGHED CONVEYOR BELT

Thanks to the troughed conveyor belt (2 x 17.5°), high capacity is obtained without the product rubbing against the sides.

RECEIVING END

A broad, round rubber receiving bunker ensures product-friendly filling from three sides without spilling potatoes.

80 CM WIDE SINGLE BELT CONVEYORS

The MC 80 single belt conveyors have an 80 cm wide troughed belt with a capacity of over 130 tonnes/h at a belt speed of 40 m/min. The single belt conveyors are available with lengths of 7, 9, 10 and 12 m. Thanks to their narrow construction and the optional integrated flattening set, the conveyor belts can also be used for product inspection.

80 CM WIDE DUO BELT CONVEYORS

The MC 80 duo belt conveyors have a high-performance 80 cm wide troughed belt and are available with lengths of 13, 17 and 20 m. The MC duo belt conveyor uses a wide, sturdy energy chain and even the basic version is a complete, fully satisfactory machine.

TECHNICAL SPECIFICATIONS	MC 780 S	MC 980 S	MC 1080 S	MC 1280 S
Minimum length [cm]	704	904	1054	1204
Maximum length [cm]	704	904	1054	1204
Total width [cm]	150	150	150	150
Minimum feed height [cm]	85	85	85	85
Minimum discharge height [cm]	40	40	40	40
Maximum discharge height [cm]	98	98	98	98
Belt speed Farmer (2 speeds) [m/min]	21/42	21/42	21/42	21/42
Belt speed Variable [m/min]	20-72	20-72	20-72	20-72

TECHNICAL SPECIFICATIONS	MC 1380	MC 1780	MC 2080
Minimum length [cm]	840	1040	1240
Maximum length [cm]	1340	1740	2040
Total width [cm]	152	162	162
Minimum feed height [cm]	80	80	80
Minimum discharge height [cm]	82	82	82
Maximum discharge height [cm]	224	220	234
Belt speed Farmer (2 speeds) [m/min]	21/42	21/42	21/42
Belt speed Variable [m/min]	20-72	20-72	20-72

70 CM WIDE SINGLE BELT CONVEYORS

The HAT 81 single belt conveyor use a 70 cm wide troughed conveyor belt that has a capacity of over 100 tonnes/h at a belt speed of 42 m/min. This belt conveyor is available with a length of 8 m. The belt conveyor makes use of a deep troughed conveyor belt, providing high capacity.

70 CM WIDE DUO BELT CONVEYORS

The TAT 161 duo belt conveyor uses a 70 cm wide troughed conveyor belt and is available with a length of 16 m. This belt conveyor is easily extendible/retractable and the discharge height can be adjusted with a hydraulic pump. The two pairs of swivel wheels make the TAT duo belt conveyor easy to move.

TECHNICAL SPECIFICATIONS	HAT 81
Minimum length [cm]	840
Maximum length [cm]	840
Total width [cm]	146
Minimum feed height [cm]	95
Minimum discharge height [cm]	40
Maximum discharge height [cm]	115
Belt speed Farmer (2 speeds) [m/min]	21/42
Belt speed Variable [m/min]	20-72

TECHNICAL SPECIFICATIONS	TAT 161
Minimum length [cm]	974
Maximum length [cm]	1590
Total width [cm]	188/192
Minimum feed height [cm]	1508
Minimum discharge height [cm]	72
Maximum discharge height [cm]	78
Belt speed Farmer (2 speeds) [m/min]	20/42
Belt speed Variable [m/min]	20-72

85 CM WIDE DUO BELT CONVEYORS

The TAT 1685 makes use of an 85 cm wide troughed conveyor belt that has a capacity of over 160 tonnes/h at a belt speed of 42 m/min. This duo belt conveyor is available with a length of 16 m. The large alloy swivel wheels make this duo belt conveyor very manoeuvrable.

TECHNICAL SPECIFICATIONS	TAT 1685
Minimum length [cm]	10125
Maximum length [cm]	16875
Total width [cm]	214
Minimum feed height [cm]	76
Minimum discharge height [cm]	106
Maximum discharge height [cm]	98
Belt speed Farmer (2 speeds) [m/min]	21/42
Belt speed Variable [m/min]	24-96

OPTIONS

INTEGRATED FLATTENING SET (MC, HAT & TAT)

For easy inspection of the product, the belt conveyors can be equipped with a flattening set that evenly spreads the product across the entire width of the conveyor belt.

INSPECTION LIGHTING SET (MC DUO)

The inspection lighting set provides the right lighting level at the product inspection location on the belt conveyor.

PIVOT AIRE TIRES (MC DUO & TAT)

If you don't have a hard ground surface, air tyres are the solution. They allow you to move the duo belt conveyors with little effort. If desired, these can also be coupled with a steering rod.

COMFORT FRAME (MC DUO)

The intake height can be easily adjusted with a single lever.

MOTION PACKAGE (MC DUO)

The Motion-Package makes it as easy as can be to move your MC duo belt conveyor. It consists of a hydraulic wheel drive, wheel steering and discharge height adjustment. Everything is operated from a wired remote control.

WEIGHT-CONTROL (MC)

The MC can be equipped with a unique weighing system with an accuracy of >99.5%. This data is very useful when it comes to precision agriculture, for example. With Weight-Control you get data on the capacity per hour and the current belt speed.

NODDING SECTION

The store loader has a nodding section at the discharge end for filling storage buildings or trucks. A few simple mechanical hooks allow you to easily change the configuration so the end is only nodded when you choose. The small diameter of the return roller minimises the dropheight.

CONVEYOR BELT

The trough belt guarantees a high capacity. Because this conveyor belt runs above and free of the frame it prevents the loss of quality that would otherwise occur due to rubbing of the product against the sides.

SENSORS

The product detection sensors control the pivot function, while the wall detection sensors change the swivel direction (see 'Filling functions' p.11) when the top approaches a real wall. All sensors are covered.

DRIVE

The drive of the ML is located at the end of the main frame to provide maximum traction. All ML 80 models feature variable belt speed control, while the ML 70 models have two fixed belt speeds.

80 CM WIDE STORE LOADERS

The ML 80 store loaders have an 80 cm wide, deep troughed belt with a capacity of over 180 tonnes/h. The store loaders are available with lengths of 16, 19 or 22 metres and can be fully customised to meet your specific needs. Depending on the feature level, the machine will be equipped with one of three filling programs: Farmer, Comfort, Dynamic or Premium. Switching between working and transport mode is accomplished with the simple press of a button.

70 CM WIDE STORE LOADERS

The ML 70 series store loaders have a 70 cm wide, deep troughed belt with a high capacity of over 130 tonnes/h at a product-friendly belt speed. The store loaders are available with lengths of 13 or 16 metres. They are built entirely according to your needs and you can pick from three different filling programs: Farmer, Comfort and Comfort+.

TECHNICAL SPECIFICATIONS	ML 1680	ML 1980	ML 2280
Minimum length [cm]	972	1122	1272
Maximum length [cm]	1619	1919	2190
Minimum overhang [cm]	437	525	691
Maximum overhang [cm]	1176	1407	1610
Total width min./max. [cm]	267/284,9	267/284,9	267/284,9
Minimum discharge height [cm]	60	80	80
Belt speed Variable [m/min]	23-91	23-91	23-91

TECHNICAL SPECIFICATIONS	ML 1370	ML 1670
Minimum length [cm]	780	970
Maximum length [cm]	1270	1576
Minimum overhang [cm]	363	412
Maximum overhang [cm]	915	1135
Total width min./max. [cm]	242/295	242/295
Minimum discharge height [cm]	35	35
Belt speed Farmer (2 speeds) [m/min]	30/60	30/60
Belt speed Variable Comfort & Comfort+ [m/min]	24-96	24-96

OPTIONS

CONNECTION KIT (ML 80 & 70)

A connection kit (for MC and TAT) connects the supplying belt conveyor to the ML, preventing product spillage. The product is always placed in the middle of the ML, regardless of the angle of incline.

X-STREAM (ML 80)

An additional, short, flat belt conveyor on the intake end of the ML 80 provides additional product-friendly transport at a higher capacity (up to 15% extra at the same belt speed). X-stream can be added to a machine at any time.

WIRELESS REMOTE CONTROL (ML 80 & 70)

How you choose to fill the storage building is entirely up to you: manually controlled or fully automatic terraced filling. A wireless remote control gives you exceptional flexibility for manually controlled filling.

CONVEYOR BELTS (ML 80)

The conveyors belts are available in PVC or rubber. Oil- and grease-resistant PVC belts are also available as an option.
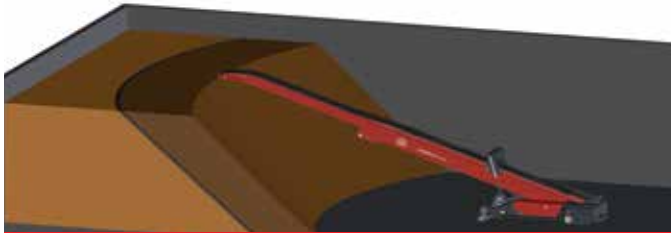

POWDER UNIT (ML 70)

A powder unit can be fitted that is suspended from a mounting set near the intake end of the ML. You set the dosage as you see fit, and it can be automatically switched on and off with the conveyor.

TRUCK FILLING BELT (ML 70)

A truck filling belt keeps the dropheight to a minimum. The filling belt is 190 cm long and 70 cm wide. Rubber flaps slow down the product to prevent drop damage.
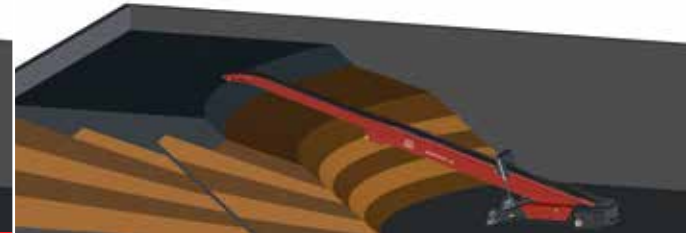
FILLING FUNCTIONS ML 70

ML 70 FARMER

The Farmer filling function automatically moves the store loader from side to side at a fixed speed, while the transport length and discharge height are controlled manually.
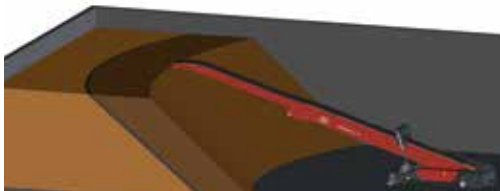
ML 70 COMFORT

With the Comfort filling function the side-to-side movement, transport length and discharge height are all controlled automatically. Starting a new terrace must be done manually.
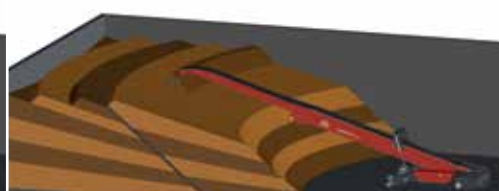
ML 70 COMFORT+

With the Comfort+ filling function the side-to-side movement, transport length and discharge height are all controlled automatically. If desired, the discharge height of the final terrace can be controlled automatically, allowing a hall to be filled to a consistent height. This function can also be used for filling Big Bags.

FILLING FUNCTIONS ML 80

ML 80 FARMER

The Farmer filling function automatically moves the store loader from side to side at a fixed speed, while the transport length and discharge height are controlled manually. The side board detection automatically reverses the direction of the store loader's side-to-side movement when a side board is detected.
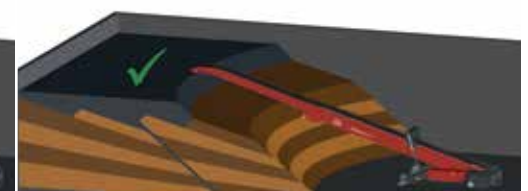
ML 80 COMFORT

With the Comfort filling function the side-to-side movement, transport length and discharge height are all controlled automatically. Starting a new terrace must be done manually. The side board detection automatically reverses the direction of the store loader's side-to-side movement when a side board is detected.

ML 80 DYNAMIC

The Dynamic filling function is also suitable for filling in terraces and includes three additional features: Top-Fill, incline angle capacity compensation and virtual side boards. Top-Fill keeps the ML at a constant height when filling the last layer. You can also choose to use virtual wall or pivot limitation by poles to establish the point where the side-to-side movement reverses.

ML 80 PREMIUM

The Premium filling function combines the best of the Comfort and Dynamic filling functions. The various layers are filled fully automatically, without manual intervention.

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