



OBSA MTC INDUSTRIE SRL

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Registration Number 317717
HS CODE 84794000

DOUBLE TAKE UP MODEL AVM2x630

Manual Version

The motorized double take up product line is based on very simple machine that are suitable for small production lines where the winding group is not most important part of the equipment.

Made in welded heavy steel, the machine basic frame to carry maximum two 630-800mm reels at the same time.

The reel shafts are fixed and the reels are driven by finger points that are driven by a motor located outside the take up.

Sliding protective panels in transparent polycarbonate allow opening, closing and machine inspection operations.

The panels are equipped with a lock mechanism which allows access to the rotating parts of the machine **ONLY** when the machine is at a complete stop.

The correct closing of the panels is guaranteed by sensors that detect the status of opened panel and stop the line in case of opening during motion.

A pneumatic emergency brake drives and stop the reel in case of problem.

The mechanical traversing unit type UHING is based on a micrometer laying unit attached to a translating arm which moves the whole unit to the right or to the left of the take-up during change-over.

The reel change and the cut of the cable are done manually by the operator after the stop the line.

The machine can be also equipped with a meter counter that checks precisely the length of the desired sizes.

The reel handling is manual by a simple trans-pallet or a hydraulic / electric reel carrier.

The machine is equipped an electrical control panel placed in front of of the machine.

The instrumentation and controls are placed on the front of the machine, incorporated in an easy to interpret panel with control lights and buttons for the various processes, a graphic HMI touchscreen display for viewing all the machine parameters and alarms.

DANCER ACCUMULATOR

This equipment is assembled on the take up and is specially designed for the high speed operations in order to obtain the best possible adjustment / tensioning of cable.

The dancer is composed of light alloy pulleys for the sliding of the cable, the tension on the cable is obtained through a pneumatic cylinder and regulated through a manometer.

Limit switches set the movement of the pulleys.

The dancer has a vertical frame.

OPERATIONS FOR MANUAL LOADING AND UNLOADING FULL / EMPTY REEL

- Turn the black lever counterclockwise
- Extract the pintle and the driving hook
- Insert the empty reel up to the stop against the shaft
- Insert the pintle and the driving hook centering the dog pin placed on the pintle in the shaft seat
- Turn the black lever clockwise to lock the pintle and consequently the reel.

TECHNICAL SHEET

Diameter of reel (mm)	630-800
Weight max of the reel (kg)	400
Width minimum of reel (mm)	300
Width max of reel (mm)	475
Diameter of the hole the reel (mm)	56
Linear speed max (mt/min)	300
Take up motor	1 with power +/- 6kw
Traversing unit	Mechanical type UHING
Dimension of the machine:	
Length (mm)	1900
Width (mm)	1400
Height (mm)	1300
Weight (kg)	1100



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Semi-Automatic Version

The motorized double take-up is made in welded heavy steel, the machine basic frame to carry maximum two 630-800mm reels at the same time.

The reel shafts are fixed and the reels are driven by finger points that are driven by two motors located outside the take up.

Sliding protective panels in transparent polycarbonate allow opening, closing and machine inspection operations.

The panels are equipped with a lock mechanism which allows access to the rotating parts of the machine ONLY when the machine is at a complete stop.

The correct closing of the panels is guaranteed by sensors that detect the status of opened panel and stop the line in case of opening during motion.

The principle is based on a take-up dual station with interchangeable reel shafts.

The traversing unit can be of two types chosen by the user:

- mechanical type UHING based on a micrometer laying unit attached to a translating arm which moves the whole unit to the right or to the left of the take-up during change-over
- electronic traversing unit driven by a servo motor and a planetary gearbox allows the precise winding of the cable, this system enable the distribution speed to adapt to the cable winding speed.

A pneumatic emergency brake drives and stop the reel in case of problem.

The reel change over system is semi-automatic; the start-up of the empty reel, placement of the cable at the right place to cut it, cutting and stopping of the full reel are automatic but initiated by the operator through the displacement of the traversing lever located in the front part of the take-up.

The change-over process is very simple and efficient.

The machine can be also equipped with a meter counter that checks precisely the length of the desired sizes.

The reel handling is manual and the operator must load and unload the reels with a manual reel carrier.

The machine is equipped an electrical control panel placed in front of of the machine.

The instrumentation and controls are placed on the front of the machine, incorporated in an easy to interpret panel with control lights and buttons for the various processes, a graphic HMI touchscreen display for viewing all the machine parameters and alarms.

DANCER ACCUMULATOR

This equipment is assembled on the take up and is specially designed for the high speed operations in order to obtain the best possible adjustment / tensioning of cable.

The dancer is composed of light alloy pulleys for the sliding of the cable, the tension on the cable is obtained through a pneumatic cylinder and regulated through a manometer.

Limit switches set the movement of the pulleys.

The dancer has a vertical frame.

OPERATIONS FOR MANUAL LOADING AND UNLOADING FULL / EMPTY REEL

- Turn the black lever counterclockwise
- Extract the pintle and the driving hook
- Insert the empty reel up to the stop against the shaft
- Insert the pintle and the driving hook centering the dog pin placed on the pintle in the shaft seat
- Turn the black lever clockwise to lock the pintle and consequently the reel.

TECHNICAL SHEET

Diameter of reel (mm)	630-800
Weight max of the reel (kg)	400
Width minimum of reel (mm)	300
Width max of reel (mm)	475
Diameter of the hole the reel (mm)	56
Linear speed max (mt/min)	900
Take up motor	2 with total power +/- 12kw
Traversing unit	Mechanical type UHING or Electronic type driven by a servo motor
Dimension of the machine:	
Length (mm)	1900
Width (mm)	1400
Height (mm)	1300
Weight (kg)	1100



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Sliding protective panels in transparent polycarbonate allow opening, closing and machine inspection operations.

The panels are equipped with a lock mechanism which allows access to the rotating parts of the machine ONLY when the machine is at a complete stop.

The correct closing of the panels is guaranteed by sensors that detect the status of opened panel and stop the line in case of opening during motion.

A pneumatic emergency brake drives and stop the reel in case of problem.

The principle is based on a take-up dual station with interchangeable reel shafts.

The electronic traversing unit driven by a servo motor and a planetary gearbox allows the precise winding of the cable moving the whole unit to the right or to the left of the take-up during change-over.

This system enable the distribution speed to adapt to the cable winding speed and permits an automatic reel change at full speed without operator intervention.

The only part which remains manual is the reel handling which is done by the operator with the help of a manual reel carrier.

The main advantage of this design is the fact that the achievable line speed is compatible with flexible production programs.

The level of automation allows the use of this equipment independently from the line control with the possibility also of remote control.

The machine is equipped with a meter counter that checks precisely the length of the desired sizes.

All the sequences and counters are managed by an independent PLC and can be easily integrated into existing lines.

The machine is equipped with a control cabinet where we can find the electronic drives and all the electronic boards to pilot the complete take-up.

The instrumentation and controls are placed on the front of the machine, incorporated in an easy to interpret panel with control lights and buttons for the various processes, a graphic HMI touchscreen display for viewing all the machine parameters and alarms.

DANCER ACCUMULATOR

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Limit switches set the movement of the pulleys.

The dancer has a vertical frame.

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Diameter of the hole the reel (mm)	56
Linear speed max (mt/min)	1000
Take up motor	2 with total power +/- 12kw
Traversing unit	Electronic type driven by a servo motor
Dimension of the machine:	
Length (mm)	1900
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Weight (kg)	1100



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