



## **OBSA MTC INDUSTRIE SRL**

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HS CODE 84794000

## **SINGLE TWIST BUNCHER MACHINE**

### **MT 630 / 800 / 1000 / 1250**



#### **PRODUCTION PROGRAM:**

- concentric copper or aluminum wire (1+6) – (1+6+12)
- solid wire until 120 sqmm
- flexible wire until 240 sqmm
- Insulated cables until  $3,5 \times 120$  sqmm
- Insulated cable until 27 conductors from 0,50 to 2,50 sqmm
- Assembly special cable by using of plastic or steel tapes

This machine is manufactured using standardized electro-soldered steel and consists of a base for the rotating cradle shaft, the rotor and the reel carrying group.

The whole rotor is perfectly balanced dynamically and statically in order to insure a perfect constant laying pitch with a high level of security.

The whole rotor rotates through a tooth belt transmission which avoids any slippage and insures a perfect power transmission between the DC motor and the cradle.

The traversing pitch is adjusted by the reel carrying group which axially translates the cable through a motor.

The main advantage of this technique is to reduce the inertia phenomena we might have when the rotor also provides the translating movement.

The motor is synchronize with the rotor motor and therefore, the traversing pitch is always constant and precise.

Both the pitch and the path can be adjusted by the operator during the machine rotation.

The reel handling is performed through a platform driven by a motor or a hydraulic group.

At the entrance of the machine, we find the assembly die group where all single wires are laid up together and due to the rotation of the rotor, are assembled in an "S" or "Z" shape.

In order to insure perfect soundproof security, the whole machine is protected by a soundproof cabin that guarantees a noise level below standard.

Furthermore, to guarantee the operator's security, the access door is equipped with an electromagnetic lock that blocks the door when the machine is in operation.

A disk brake stops the rotor in case of wire-brake or functioning problems.

Finally, a ventilation system operates when the machine runs in order to keep the inside temperature at an acceptable level.

This machine is completely PLC driven with an independent alphanumeric panel.

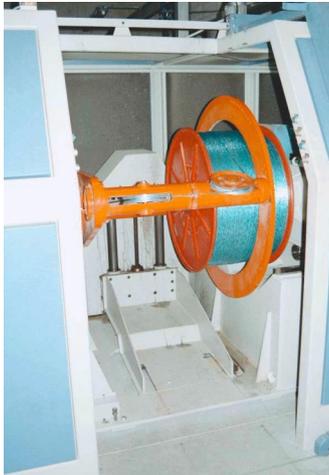
It regulates all the sequences in synchronism and provides all the necessary measured values for a high quality production.



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TECHNICAL DESCRIPTION	MT 630	MT 800	MT 1000	MT 1250
Diameter reel (mm)	630	800	1000	1250
Max. reel weight (kg)	600	1000	2000	3000
Max. overall reel width (mm)	475	660	750	950
Bore diameter (mm)	80-127	127	127	127
Max barrel diameter (mm)	400	400	630	800
Max. single twist speed (rpm)	1200	800	600	450
Number of torsion/minute:	1200	800	600	450
Assembly lay length (mm)	20-200	30-300	30-300	40-430
Max. flexible cable diameter (mm)	12	18	25	35
Assembly direction	S or Z	S or Z	S or Z	S or Z
Production speed (m/min)	24-240	24-240	18-180	18-180
Max. noise level (dBa)	72	72	72	72