



OBSA MTC INDUSTRIE SRL

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HS CODE 84794000

EXTRUDERS SERIAL ES

Our company provide complete solutions for our customer's extrusion needs.

In order to meet a vast majority of the demand for extrusion of plastic and rubber, we have developed two distinct technologies with air cooling systems and water cooling systems.

AIR COOLED EXTRUDER RANGE



Thanks to a very efficient air cooling system, this range of extruders are especially adapted for a majority of plastics such as PVC, PE, PP, FR etc...

By adding a special combination of barrel and screw, they are also able to extrude Nylon and Fluor based materials as TPE, PUR, FEP, TEFLON, KINAR, TEFZEL, PFA etc...with operating temperature above 350 C°.

Each barrel zone is temperature-regulated by use of heating elements and fans.

The feeding zone is cooled by water to avoid any stagnation.

We offer 6 different sizes of main extruders these are 45, 60, 80, 100, 120 and 160mm with ratio 25D L/D with except for the 45 which has a 24 ratio.

The standard extrusion height is fixed at 1050mm.



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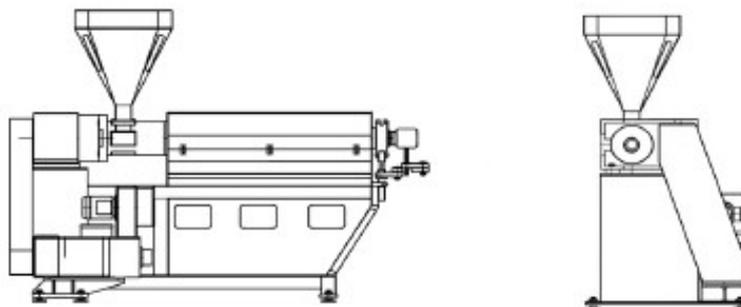
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Technical characteristics and overall dimensions of the main air cooled extruders

Model	ES 45-24D	ES 60-25D	ES 80-25D	ES 100-25D	ES 120-25D	ES 160-25D
Screw diameter (mm)	45	60	80	100	120	160
L/D ratio	24	25	25	25	25	25
Number of thermoregulated zones	3	4	4	5	5	5
Type of cooling process	air	air	air	air	air	air
Total barrel heating power (kW)	10	19	24	33	54	69
Total cooling power (kW)	3 X 0,25	4 X 0,50	4 X 0,75	5 X 1,0	5 X 1,5	5 X 2,2
Motor electrical power (kW)	25	40	60	120	190	260
Max. screw rpm	142	150	135	110	110	75
Max. PVC output at max. speed (ideal) (kg/h)	70	180	380	550	900	1400
Indicative max. screw output torque (kNm)	1,7	2,4	4,2	10,1	16,3	32,5

Overall dimensions



	ES 45-24D	ES 60-25D	ES 80-25D	ES 100-25D	ES 120-25D	ES 160-25D
LENGTH (mm)	2000	2600	3100	3800	4500	6300
WIDTH (mm)	1200	1350	1500	1750	2050	2500
HEIGHT (mm)	1350	1400	1400	1400	1400	1400

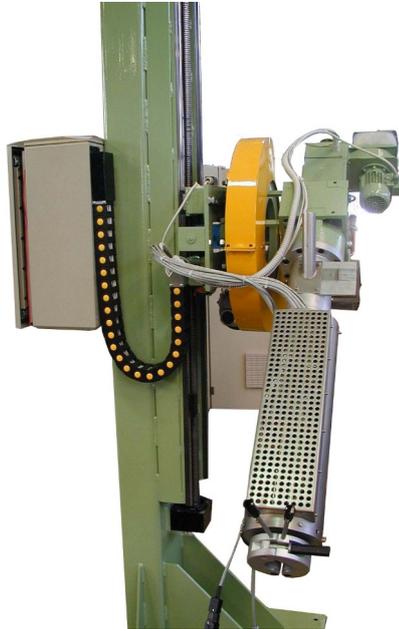


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AUXILIARY AIR COOLED MULTIDRIVE EXTRUDER RANGE



Along with the main extruders, we also need to have auxiliary extruders for various purposes such as:

- Skin process to economise masterbatch
- striping process for bi-colour cables
- inner and outer skin for telecommunication process

We use auxiliary extruders for many different cable segments such as building wire, automotive wire, appliance wire, telecommunication cables etc..

The most important qualities we require from an auxiliary extruder is that it must be flexible in its utilisation, it must be adaptable to a lot of different extrusion configurations, it must take reduced floor space and it must extrude a wide variety of different materials. Following all the above-mentioned constraints, we have developed two auxiliary extruders that can be utilised in many different configurations with a high degree of freedom.

The concept of our multidrive auxiliary extruders is the following:

- The extruder itself is fixed to a multi-axis moving-stand that provides all the possible movements of extruders.
- The stand is on rollers for a complete displacement of the extruder.
- The extruder can be lifted from a height of 950mm to 1350mm, manually or electrically.
- The extruder can be oriented horizontally or vertically through all the possible angles, manually or electrically.
- The extruder can rotate 180° around its fixing point.

The control panel of the machine is movable and contains all the necessary electrical components to drive and adequately regulate the extruder.

It is attached to the multi-axis moving-stand with a flexible arm which allows the panel to be near the operator's work place.

The electrical power supply of the whole machine is transmitted via an industrial electrical socket that is positioned at the bottom of the stand.

In case of integration in a complete line control, all the input/output signals are also linked to an industrial socket that can be connected to the line PLC.



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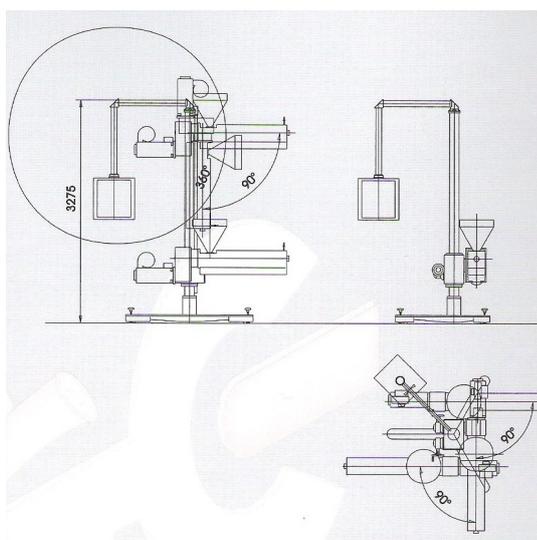
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Technical characteristics and overall dimensions of the auxiliary air cooled multidrive extruders

Model	ESM 30-24D	ESM 45-24D
Screw diameter (mm)	30	45
L/D ratio	24	24
Number of thermoregulated zones	3	4
Type of cooling process	air	air
Total barrel heating power (kW)	4,2	10
Total cooling power (kW)	3 X 0,15	4 X 0,25
Motor electrical power (kW)	6,2	24,8
Max. screw rpm	150	142
Max. PVC output at max. speed (ideal) (kg/h)	0,4	1,7
Indicative max. screw output torque (kNm)	40	70

Overall dimensions



	ESM 30-24D	ESM 45-24D
LENGHT (mm)	1800	2300
WIDTH (mm)	1600	1600
HEIGHT (mm)	3000	3000

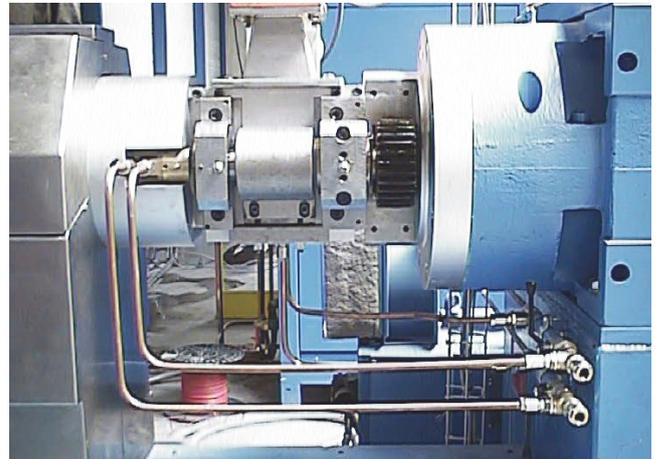


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LIQUID COOLED EXTRUDER RANGE



For the rubber family (EPR), EPDM and certain kinds of XLPE, we need machines regulated by water or oil and with a ratio L/D ratio shorter.

Therefore, we have developed a range of water-/oil-cooled extruders with an L/D ratio of 17 and 20.

In terms of product range we can provide an extensive range from 45mm extruders up to 160mm extruders.

All our machines are composed of two different parts: *the extruder itself and the thermostatization unit.*

The thermostatized extruders have been studied in order to fulfill the requirements of the most demanding customers who need high quality machinery for specific needs.

All extruders are composed of regulating elements that are mounted on the barrel where water or oil is injected.

These elements are completely liquid tight to avoid any leakage.

The screw is designed to process a wide variety of materials at the lowest temperature possible to achieve a good quality final result.

In order to avoid any stagnation on the screw, the latter is thermostatized by liquid as well.

For rubber process, the feeding zone is equipped with a rotating feeding roller that rotates at the same speed as the screw.

The feeding section of the screw is also designed with some tangential feeding teeth that grip the rubber band.

Thanks to all these specific elements, our company guarantees a perfectly smooth rubber process.

In the thermostatization units each liquid-cooled zone is linked to its own thermostatization unit.

The unit is designed to regulate the circuit temperature up to a maximum of 140°C.

The unit is equipped with a discrete regulator where the desired temperature can be set.

All these extruders have proven their linearity when subject to a wide range of speeds and pressures and therefore are suitable for a wide range of different applications where flexibility and quality are the key success factors.



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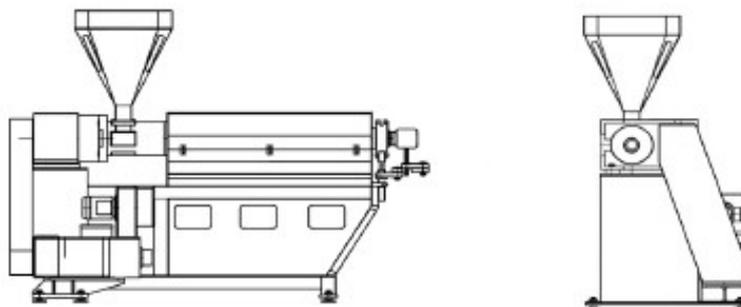
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Technical characteristics and overall dimensions of the liquid cooled extruders for rubber process

Model	ES 45-17D	ES 60-17D	ES 80-17D	ES 100-17D	ES 120-17D	ES 160-17D
Screw diameter (mm)	45	60	80	100	120	160
L/D ratio	17	17	17	17	17	17
Number of thermoregulated zones	2	3	3	3	3	4
Type of liquid process	water	water	water	water	water	water
Motor electrical power (kW)	18,8	30	45	75	110	165
Max. screw rpm	50	50	50	50	50	50
Max. rubber output at max. speed (ideal) (kg/h)	43	75	136	200	321	393
Indicative max. screw output torque (kNm)	3,6	5,7	8,6	14,3	21	31,5

Overall dimensions

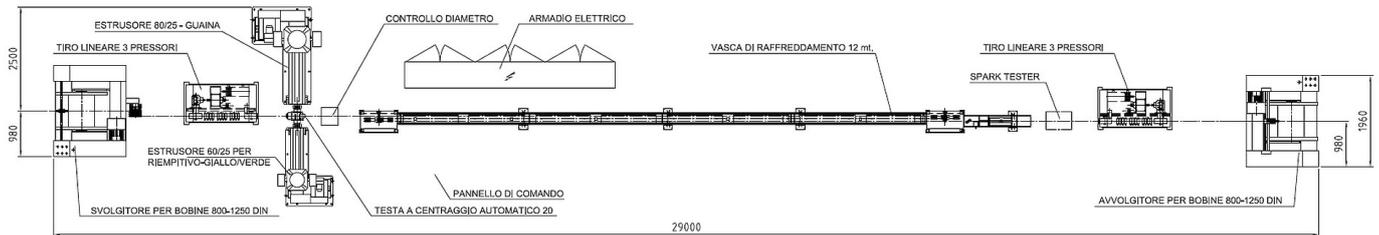


	ES 45-17D	ES 60-17D	ES 80-17D	ES 100-17D	ES 120-17D	ES 160-17D
LENGHT (mm)	1380	1770	2100	2600	3000	4300
WIDTH (mm)	1200	1350	1500	1750	2050	2500
HEIGHT (mm)	1350	1400	1400	1400	1400	1400

Our service capabilities group a wide range of aspects such as:

- Project conception, realization and implementation according to your requirements
- Analysis of your production capabilities and proposal for productivity improvements
- Technical assistance, commissioning and spare-parts
- Design, production and delivery of customized machines for your specific needs
- Re-engineering and improvement of your lines automation
- Conception, realization and installation of complete lines for a wide variety of different types

Insulating and Sheathing line with double extrusion for filling and change colors



Insulating and Sheathing line for domestic conductors PVC+SIOPLAS

