

# ARM ALUMINIUM RECOVERY MACHINE®

## *The secret for cost cutting*

**ARM ALUMINIUM RECOVERY MACHINE®** was conceived, designed and developed in order to help extruders eliminate aluminium residues, remaining in the pre-chambers of porthole dies. Such residues usually are eliminated by means of a soda bath, which besides being very expensive and harmful to health involves also the burden of waste disposal.



This is why we have thought to replace the traditional system with an automatism allowing to cut aluminium residues with ease, safety and a real saving deserving the serious interest of extruders.

The machine is equipped with a movable table with hydraulic feed enabling carrying out automatic rectilinear cuts of the material that remains attached to the die after extrusion, whenever a die holder with built-in reamer is used.

The workbench is mounted on round cylindrical guides with recirculating ball bushes, eliminating sliding friction also under heavy load.

**ARM ALUMINIUM RECOVERY MACHINE®** is provided with a graduated scale, displaying the selected cutting length with stop at the cutting end.

### MAIN STRONG POINTS:

By the introduction in the company of **ARM ALUMINIUM RECOVERY MACHINE®** the aluminium extruders obtain many benefits, out of which the main are the following:

#### 1) SAFETY

- High safety degree during cutting operations thanks to the protections, installed all around the table, and to the opening on the loading side, provided with a safety limit switch.
- By positioning the die in the specific vice, one avoids dangerous rotations during cutting operations.

#### 2) ERGONOMICS

The operator's strain is considerably reduced thanks to the cutting operation run by the machine and to the decrease of the die package weight.

#### 3) PERFORMANCE

The appliance offers a huge saving, easily calculated. Besides eliminating soda cost, it is easy to recover some Kilos of aluminium and to transform it for the subsequent extrusion process.



The machine is composed of an electro-welded and tempered steel frame, duly dimensioned to resist the cutting strength.

The hydraulic vice allows the clamping of the die during the cutting stage, is run by a double acting hydraulic cylinder with a 200 mm stroke and has a maximum service tightening capacity of 420 mm diameter.

The V shaped plate allows positioning and centring the die.

The lubrication with vegetable oil by means of a micro pneumatic vaporizer allows adjusting the pulsations per minute and the quantity of liquid to be supplied.

**ARM ALUMINIUM RECOVERY MACHINE®** guarantees safety, ease of use and a huge saving.

# ARM ALUMINIUM RECOVERY MACHINE®: OPERATING INSTRUCTIONS

The following operations are valid for all types of dies.

- 1) Before starting up the machine, make sure that all the protections are positioned correctly and place the die with butt within the "V" shaped plate.
- 2) Stretch the blade by turning the handwheel.
- 3) Position the blade-guide rod a few cm from the butt so as to optimise the cutting operation.
- 4) Start the control unit that runs all the hydraulic parts.
- 5) The motor makes rotate the handwheels and consequently the blade until the set speed is reached.
- 6) Adjust the cutting speed by means of the potentiometer GVX 1000.
- 7) Set the cutting length by the handgrip located on the table and the millimetric bar.
- 8) Adjust the table feed by turning the specific speed knob operating the hydraulic valve.
- 9) When the table terminates the butt cutting, a plate releases the table micro, which blocks the travel.



## TECHNICAL SPECIFICATIONS FOR ARM ALUMINIUM RECOVERY MACHINE®

Projection	550 mm
Number of handwheels	2
Handwheels diameters	575 mm
Table dimensions	760x600 mm
Cutting travel	500 mm
Maximum opening in height	440 mm with "V" shaped plate 480 mm without "V" shaped plate
Maximum die diameter	420 mm
Band saw length	4.700 mm
Band saw width	27 mm
Speed of blade with continuous adjustment	m/min 150÷1.100
Engine power	4 Kw
4-pole engine	1.400 rounds/min
Hydraulic engine power	1,5 Kw
Blade speed after first cuttings	between 700 and 800 m/min
Blade feed after first cuttings	about 70 mm/minute
Average life of a blade	300-350 residues cuttings with Ø 200 mm
Maximum overall length including movements	1700x1600 mm
Base overall length	1200 x 750 mm
Approximate weight	1030 Kg

Structure in welded, tempered tubular steel.

Prevention cupboard against accidental electricity contact.

NB: The proper functioning of the band saw requires that after the assembly on the machine 6 butt cuttings are carried out at a very low feed (about 30 mm/min). Otherwise the blade cutting capacity will be immediately deteriorated and it will be necessary to replace it.

The machine is supplied in compliance with CE standards or alternative ones.

**ARM ALUMINIUM RECOVERY MACHINE®** : a CO.M.P.ES. S.p.A. trademark

Compes reserves the right to apply without prior notification any technical modification deemed necessary or as a function of specific requests.

**EXTRUSION SOLUTIONS**

CO.M.P.ES. S.p.A. 25050 Rodengo Saiano (BS)-ITALY  
Via Castegnato, 6/c Tel. +39 0306815011 - Fax +39 030611848  
www.compes.com E-mail: info@compes.com  
Sales dept. Fax +39 0306810125 E-mail: sales@compes.com