

SINGLE SCREW EXTRUDER Range **HELIBAR U**

- ▶ 25 TO 90 mm DIAMETER
- ▶ MONOBLOC BARREL WITH LONG HELICAL GROOVES
- ▶ POWERFUL AND VERSATILE
- ▶ HIGH PRODUCTIVITY



The Helibar U range of extruders utilise Helibar® technology, a monobloc barrel with helical grooves along the entire length. This technology combines the advantages of grooved-barrel extruders, i.e. strong and stable output, with the versatility of smooth barrel extruders. An additional advantage of this technology is linked to the mixing of materials, and the electric consumption per kg/h produced. Consequently, this range of machines provides a response to all types of extrusion and for all types of material, in particular : PE, PP, PA, ABS, PC, PS, PMMA, PET, TPE, TPU, soft PVC, PU, Fluoropolymers and technical polymers.

Technical data : **HELIBAR U**

| ∅ Extruder mm | Length ⁽¹⁾ L/D | Motor Power KW | Speed [min]1 | Barrel Zones | Tooling Zones ⁽²⁾ | Output (max) ⁽³⁾ kg/h |
|------------------|------------------------------|-------------------|-----------------|-----------------|---------------------------------|-------------------------------------|
| 25 | 30 | 13,2 | 320 | 4 | 3 | 40 à 60 |
| 35 | 30 | 22 | 250 | 4 | 4 | 70 à 110 |
| 45 | 30 | 37 | 210 | 4 | 4 | 120 à 180 |
| 60 | 30 | 60 | 160 | 4 | 4 | 200 à 300 |
| 75 | 30 | 85 | 130 | 5 | 4 | 300 à 400 |
| 90 | 30 | 100 | 100 | 5 | 4 | 400 à 500 |

⁽¹⁾ Degassing version 35D in length

⁽²⁾ More than 10 tooling zones as an option

⁽³⁾ Depending on material, temperature, pressure and screw type

MAIN CHARACTERISTICS

- ▶ **REDUCED ELECTRICAL CONSUMPTION :**
AC Motor; high output reducer; direct transmission. Isolated heating collars to reduce loss by thermic dissipation.
- ▶ **OVERSIZED AXIAL THRUST BEARING :**
Thrust bearing with a life expectancy of 20 years, based on being under a constant pressure of 400 bar.
- ▶ **HEATING AND COOLING :**
The ceramic collars assure a rapid and homogenous temperature rise, the grooves on the exterior of the barrel guarantee very efficient cooling.
- ▶ **LOW MAINTENANCE :**
All Helibar U range equipped with direct drive AC motor without belt or chain. Electrical wiring with guide marks CAB 3.
- ▶ **INSTALLATION AND RELOCATION :**
Height-adjustable feet facilitate installation, level placement and relocation.

- ▶ **PLASTIFICATION UNIT :**
Monobloc barrel in nitride steel with helical groove along the entire length, Helibar® technology. We propose three barrier screws as standard : universal, Polyolefin, soft material. Specific screws on request.
- ▶ **STRENGTH AND RELIABILITY :**
Choice of the best components, oven baked PU paint, monobloc chassis.
- ▶ **MOTORISATION :**
Choice depends on machine size : AC motor; water-cooled AC motor; CMG gear motor; water cooled torque motor.



PRINCIPAL OPTIONS

- ▶ Supplementary tooling heat zone
- ▶ Melt pressure with double security
- ▶ Melt temperature with security
- ▶ 10" or 12" touch screen control
- ▶ Level sensor with alarm
- ▶ Line speed synchronisation
- ▶ IT-controlled heating collars
- ▶ Mounted on adjustable wheels and rail

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