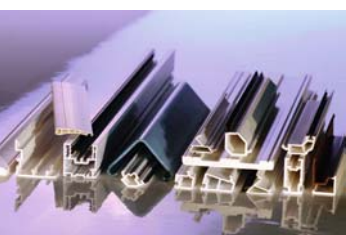


Single Screw Extruder ALPHA 45/60 SecuRe



Engineered for one purpose

The **alpha** single-screw extruder was developed and designed especially for technical profile and tube extrusion:

One concept for all applications

- > Technical profiles
- > Tubes
- > Small pipes
- > Available in two screw sizes (45 mm, 60 mm)

Advantages

- > Cincinnati Extrusion quality
- > Best price-performance ratio
- > Various screw types in stock
- > Premium European components
- > Wide output range
- > Direct drive, high torque, brushless and maintenance-free AC motor
- > Analogue synchronisation (0-10V signal) to co-extruder and/or downstream equipment
- > Wide range of materials and applications
- > Very compact, smallest foot print
- > Complete lines for pipes and profiles available
- > UL version for US market available (www.my-alpha.com)



Bestsellers worldwide:
alpha single screw extruders

Options

- > Co-extrusion: CanBus interface (Euromap 27)
- > UPS uninterruptible power supply (for control voltage only)
- > Melt temperature display
- > Melt pressure measurement / cutoff
- > Discrete synchronization interface
- > Height adjustable rolls
 - > for movable (co-)extruder
 - > can be retrofitted
 - > 100 mm height adjustable
- > Levelling pads
 - > absorb vibration
 - > precise extruder levelling
 - > 50 mm height adjustable



Mechanics - Basic Equipment

- > 2-stage gear
- > 4 zones heating/cooling
- > Nitrided barrel 25B with either smooth (25B) or grooved (28G) feed section
- > Nitrided screws 25B
- > Nitrided screws 28G, feed zone hard metal coated
- > Direct drive (power flow); AC drive
- > Bursting disc as safety precaution against over-pressure
- > Sliding hopper with three positions (main & secondary feeding, emptying)



Power flow

Electrics - Basic Equipment (according to EN)

- > Siemens motor; vacon drive
- > Mobile operator panel with 15 m cable
- > Relay control with Eurotherm 3216 controllers
- > 3x 400 V (+/- 5%) + N + PE (PEN) 50 / 60Hz
- > Discrete downstream interface



New economics in profile extrusion

Extruder Types:

alpha 45-25B	EUR 28,000 -*
alpha 45-28G	EUR 36,000 -**

all prices: ex works Vienna, unpacked

alpha 60-25B	EUR 34,000 -*
alpha 60-28G	EUR 44,000 -**

all prices: ex works Vienna, unpacked

Feed Zone Characteristics

Smooth Feed Zone

- > Highest flexibility
- > Simple operation
- > Processing of pellets (no powder)

Grooved Feed Zone

- > Constant specific output rates
- > High output per screw revolution
- > Suitable for high melt pressure (tool pressure)
- > Processing of pellets (no powder)
- > Back pressure independent - PFT (power feed technology)



Mobile Operator Panel functionality

- > LED status: "stop", "run", "ready"
- > LCD display (backlit):
 - > Motor load in %
 - > Screw speed: set & actual in rpm
- > Motor speed control, 0.1 rpm steps



Screws

alpha 45-25B

- S 109.3BL: 3 zone screw without mixing or shear part
- S 100.2BL: 5 zone screw with mixing elements
- S 151.2BL: 3 zone with shear section
- S 153.025BK/A: 5 zone screw with short mixing part

alpha 45-28G

- S 100.428GL: barrier screw with additional Maddock part

alpha 60-25B

- S 209.2BL: 3 zone screw without mixing or shear part
- S 200.125BL: 5 zone screw with mixing elements
- S 251.2BL: 3 zone with shear section
- S 253.025BK/A: 5 zone screw with short mixing part

alpha 60-28G

- S 200.428GL: barrier screw with additional Maddock part

Alpha-Shop www.my-alpha.com

For more detailed information on the **alpha**, the **alpha UL** version for the North American market and online ordering, please visit our online shop: www.my-alpha.com.

	Unit	alpha 45		alpha 60	
		B	G	B	G
Feed zone		smooth	grooved	smooth	grooved
Screw diameter	mm	45		60	
L/D ratio		25	28	25	28

Actual output depends on the material processed, the extrusion die and the extrusion environment.

Output Rates/Pellets

	kg/h	alpha 45 B	alpha 45 G	alpha 60 B	alpha 60 G
U-PVC	kg/h	60	-	90	-
P-PVC	kg/h	50	70	100	110
PP	kg/h	30	50	50	90

* smooth 25L/D barrel, relay control, including screw, ex works, unpacked; CE version excl. all options, appearance may differ from images, specification according to latest datasheet, design changes reserved.

** grooved 28 L/D barrel, relay control, including screw, ex works, unpacked; CE version excl. all options, appearance may differ from images, specification according to latest data-sheet, design changes reserved.

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Cincinnati Extrusion is a global supplier of extrusion equipment. Closeness to its customers is ensured by subsidiaries, agents and partners in over 40 countries in the world.

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Subject to technical alterations.