

## Linear 30 – Single 30 mm Screw Extruder – Review Date: January 2015

### Introduction:

Rondol Single Screw Extruders combine high production capabilities, energy efficiency and ease of use with compact size and are well suited to a wide range of polymers and processing purposes. Flexible designs and configurations enable, for example:

- Feed-dosing of different additives (liquid or solid), continuous mixing, preparation of hybrid polymer materials by reactive extrusion or polymer alloying, degassing and devolatilisation.
- Preparation of granules, pellets, lines, tubing, fibres, tapes, sheets and films with novel additives for innovative applications.
- Fabrication of small thermoplastic components with high strength-to-weight properties.
- Co-extrusion to combine weather resistance on the outside surface with inner core impact resistance and structural performance.

**Model: Linear 30**

**30mm Diameter Bench  
Top Single Screw  
Extruder**





[www.rondol.com](http://www.rondol.com)

8 Place de l'Hôpital  
67000 Strasbourg  
France  
Tel: +33(0)3.88.36.27.92  
Fax: +33(0)9.67.16.27.92

# Product Specification Data Sheet

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<b>Screw:</b>	Diameter:	30mm
	Length/Diameter	20:1
	Ratio:	
	Profile:	Nitrided steel. 3:1 compression ratio (Other profiles can be supplied to suite particular materials)
	Material of Construction: (Standard)	Nitrided steel. Easily removable for process change/cleandown

**Screw Speed:** 0 to 120 RPM (infinitely variable)

**Die :** 1cm wide die

**Drive:** 7.5kw A.C. variable speed motor directly coupled to reduction gearbox.

**Barrel:** Nitrided steel. Stainless steel, water cooled  
feed block with contoured feed port.  
Fitted with bursting disc for over pressure  
protection  
(Pressure indication system optional at extra  
cost)

**Barrel/Die Heating:** 3-zones + 1 feed cold zone  
Electric band heaters 0 to 300°C with fan cooling  
Type J thermocouples  
3Term PID control with Fuzzy logic  
Solid state switching

**Outlet:** Taper flange with High Temperature heated clamp  
(swing bolt type). Breaker plate fitted.

**Feed hopper:**



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Stainless steel. Slide-type discharge/unload.  
Stainless steel cover.

**Output: 12kg/h (HDPE,PP,PE)**

**Support frame:**

Heavy duty, welded frame. Polyester powder  
coated RAL7035. Adjustable height.

**Operator Controls: Control Panel  
Incorporating in the frame:**

Emergency Stop  
Extruder Start/Stop  
Speed control  
Temperature Controllers  
Die Temperature Control

**Electrical Requirements:**

Three phase 50/60 Hz

**Water Requirements**

Clean Cooling Water  
25°C Max Temperature  
2 bar Max Pressure  
10 Litres/minute