

Nateco Horizontal Series Single Screw Extruders, 3/4 inch (20mm) to 2 Inch (50mm)

Manufactured and designed to fit customers requirements for performance, durability, and space requirements. Extruder sizes range from 3/4" to 2" and are available in caster mounting or secured floor mounting. Customer picks the colour of extruder and special custom-made company decals are available.



Main Features:

- Cast Aluminium heaters are standard
- Mercury or Solid State Relays
- Air Cooled
- Bi-metallic Barrels
- Main drive Piggyback mounted
- CSA approved Panels

Industries Used:

- Pipe
- Blown Film
- Laboratory
- Profile
- Compounding
- Recycling
- Sheet
- Wire and Cable

NATECO MACHINERY INC.

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Standard Features:

Frame

Heavy-duty steel painted frame provides mounting for all components such as Gearbox, Thrust housing, Control Panel, and Barrel. The front adjustment for the end of the barrel is designed for precise barrel alignment. Available with solid floor mounting base or locking casters for easy movement.

Gear Reducer

Double reduction parallel shaft helical reducer. Generous safety factor. Self contained splash type oil bath.

Barrel

Bi-metallic lined with base material 4140. Flanges are threaded and welded for superior strength. Operating pressure rated at 10,000 psi. pre-drilled for all thermocouples and temperature / pressure gauges.

Barrel Heating and Cooling

Cast Aluminium heaters offer the benefit of faster heat up times with the ability to rapidly cool the barrel via finned aluminium baffles. Cooling is provided by externally mounted blowers.

Hopper

30 lb round painted hopper complete with slide gate shut off.

Extruder Drive

AC Vector or DC drive systems available and are connected via "C" Face mounting to Gearbox. Our Piggyback design reduces the overall foot print and eliminates the need for belt drives.

Thrust Assembly

B10 thrust bearing standard mounted in a thrust housing with its own oil bath which will not allow cross contamination from the gearbox.

Feed Throat

Cast Aluminium water-jacketed feed throat clamp allows for increased cooling compared to cast iron feed throats. Adjustable water control valve included.

Screw

Screw made from 4140, hardened flights, chrome plated. Provides superior outputs of most materials and includes special mixing section.

Control Panel

Side mounted panel includes the following features: Each zone has its own temperature controller, amp load readout, circuit breaker, on/off control. Variable speed controller with rpm gauge motor amp load and start/stop Isolation transformer with disconnect. CSA approved



Control panels are CSA approved and are tested before shipment.

Size	L/D Ratio	Drive HP	Thrust Bearing B10 life expectancy	# Zones
3/4" (20mm)	24:1	3	220,000/h	3
1" (25mm)	24:1	3	220,000/h	3
1-1/4" (30mm)	24:1	5-7.5-10	220,000/h	4
1-1/2" (40mm)	24:1	5-7.5-10	220,000/h	4
1-3/4" (45mm)	24:1	15-20	650,000/h	5
2" (50mm)	24:1	20-30	650,000/h	5

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