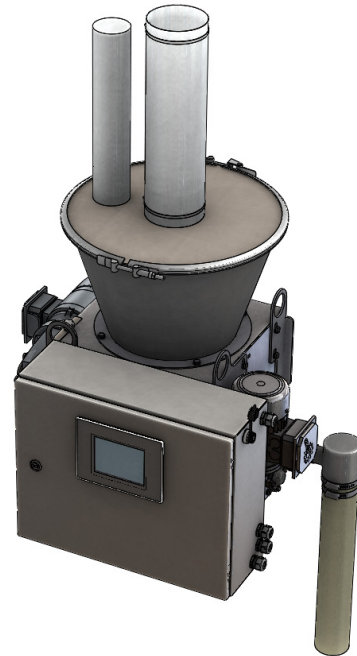


MechaTron[®] Low Range Coni-Flex Feeder (LC)

- Volumetric and gravimetric configurations for feed rates up to 21 cu ft (595 liters) per hour
- Agitation of a Coni-Flex[™] conical flexible internal feed hopper eases material handling
- Disassembly from the non-process side of the feeder simplifies cleaning, servicing, and reconfiguration
- Perfectly suited for dry material feeding applications in all process industries



Materials of Construction

Contact materials –

- 304 & 316 stainless steel and UHMW PE
- Coni-Flex[™] chemical duty FDA approved gray and white vinyl
- Coni-Flex[™] chemical duty and static dissipative polyurethane

Non-contact materials –

- 304 stainless steel and epoxy coated cast aluminum

Feed Rates

- Helix diameters from 0.25" (6 mm) to 1.38" (35 mm)
- Theoretical feed rates from 0.002 to 21 cubic feet (0.057 to 595 liters) per hour

Feed Screws

- 304 or 316 stainless steel
- Single screw, open flight or center rod configurations
- Full or half pitch configurations
- Extensions from 12" (300 mm) to 48" (1.2 meters) from the feeder face (actual maximums are helix diameter dependent)

Coni-Flex[™] Feed Hopper

- Removable 70 degree (from horizontal) conical flexible internal feed hopper
- 0.25 cubic feet (7.4 liters) of material storage capacity

Hopper Extensions

- 1 and 3 cubic feet (30, 65, and 83 liters) capacities with or without 5" (127 mm) inlet and 3" (76 mm) vent connections
- Dust tight 360 degree band clamp mounting
- Multiple cover designs available

Motor Specifications

- Dual drive design (separate motors for helix and agitation)
- Industrial applications, helix drive – 1/2 HP (0.37 kW) AC, TEFC, inverter duty
- Industrial applications, agitation drive – 1/6 HP (0.12 kW) AC, TEFC, inverter duty
- 230/460 VAC, 3 PH, 60 Hz

NOTE: Wash-down duty rated motors are used in feeders intended for food and pharmaceutical applications.

Mounting Configurations

- Floor mount – 304 stainless steel tubular stand

Weigh Module Specifications (optional)

- Dual Coperion stainless steel strain gage load cells. No summing box required.
- Weigh modules available in 132 lbs (60 kg), 264 lbs (120 kg), and 441 lbs (200 kg) capacities

Control

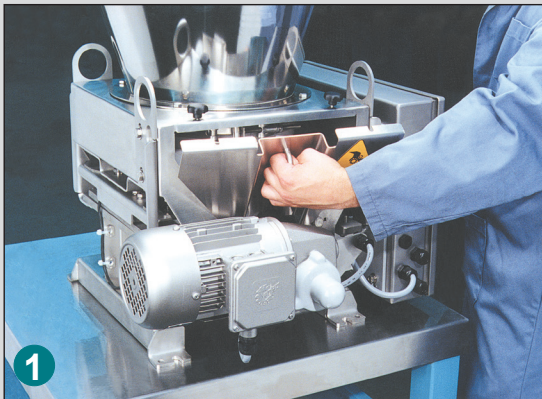
- Mechatronic (feeder mounted) or remote

Performance

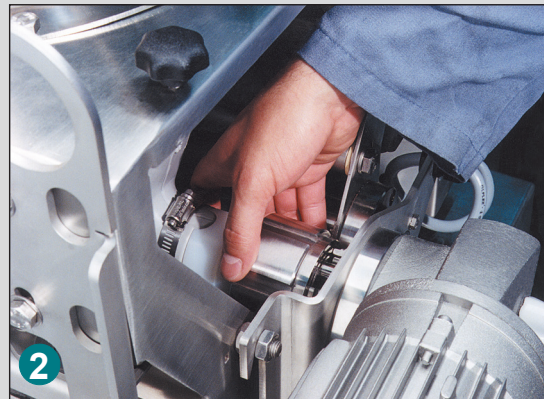
- Volumetric accuracies of +/- 2% to 5% of feed rate setpoint at 2 sigma
- Gravimetric accuracies of +/- 1/4% to 1% of feed rate setpoint at 2 sigma

NOTE: Laboratory testing to determine specific material feeding accuracy is recommended and available from Coperion.

A feeder you can quickly reconfigure, clean or service from the non-process side.



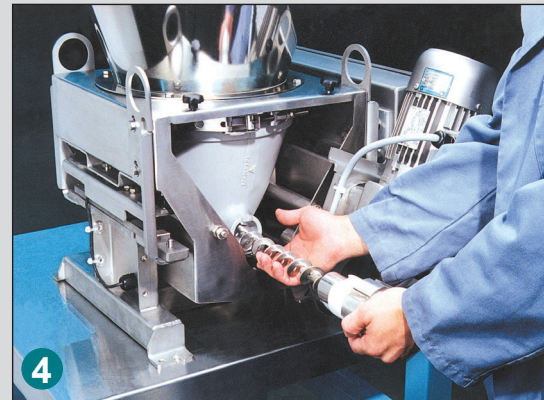
1 All components are accessible from the rear of the feeder instead of the discharge side. Simply loosen screw knobs and remove backplate.



2 Loosen swivel stop bolt and quill nut.



3 Motor and drive assembly swings back for complete access to all internal components for easy cleaning, reconfiguration, or maintenance.



4 Helix is easily removed allowing for fast helix style and diameter changes.



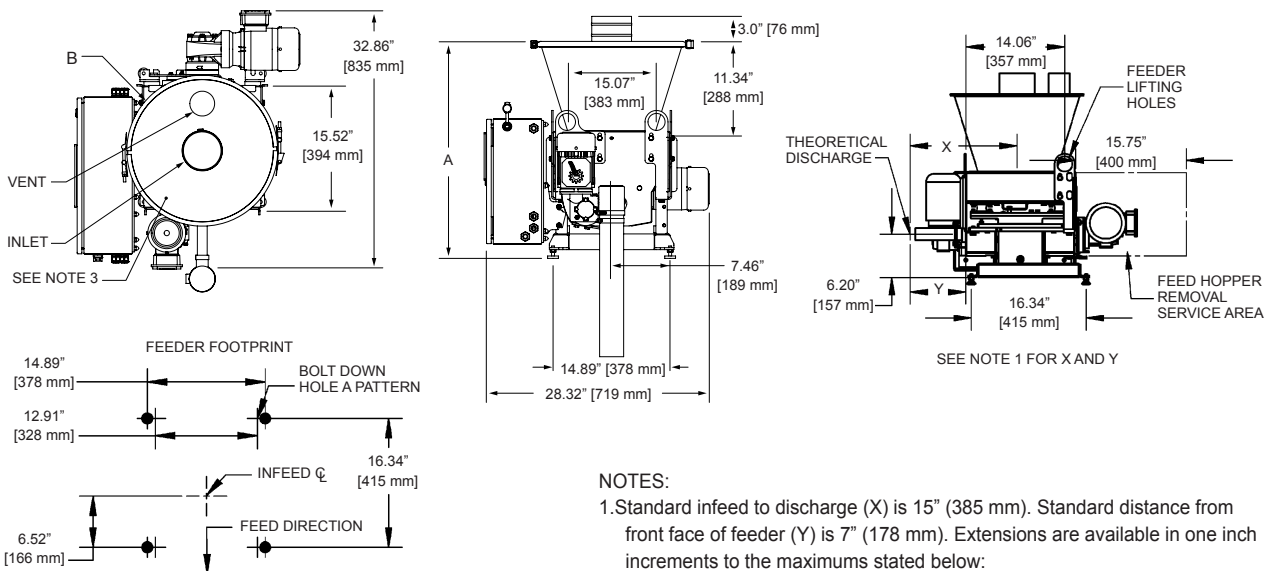
5 Release band clamp for easy hopper removal. Hopper simply slides out for cleaning, replacement, or maintenance.



6 Replace components, reposition motor and drive assembly, tighten quill nut, replace backplate and you're ready to run – all in under two minutes.

Dimensions

EQUIPMENT CONFIGURATION	WEIGHT	HOPPER CAPACITY
Feeder (dead load).....	94 lbs (43 kg)	0.25 cu ft (7 L)
Feeder + cover (dead load).....	103 lbs (47 kg)	0.25 cu ft (7 L)
Stand + control + feeder + cover (total).....	160 lbs (73 kg)	0.25 cu ft (7 L)
Feeder + 1 cu ft (30 L) extension hopper + cover (dead weight).....	113 lbs (51 kg).....	1.30 cu ft (37 L)
Stand + feeder + 1 cu ft (30 L) extension hopper + cover (total).....	176 lbs (80 kg)	1.30 cu ft (37 L)
Feeder + 3 cu ft (83 L) extension hopper + cover (dead weight).....	123 lbs (56 kg)	3.30 cu ft (90 L)
Stand + feeder + 3 cu ft (83 L) extension hopper + cover (total).....	186 lbs (85 kg)	3.30 cu ft (90 L)



EXTENSION HOPPER DIMENSIONS

Capacity	Dim "A"	Dim "B"
1.0 cu ft (30 L)	26.2" (666 mm)	18.9" (481 mm)
3.0 cu ft (83 L)	35.7" (906 mm)	24.9" (633 mm)

NOTE: Overall height of feeder is increased by 0.5" (12.7 mm) to 1.25" (31.8 mm) when using optional leveling feet.

NOTES:

1. Standard infeed to discharge (X) is 15" (385 mm). Standard distance from front face of feeder (Y) is 7" (178 mm). Extensions are available in one inch increments to the maximums stated below:

Helix Dia.	Max. Infeed to Dis. (X)	Max. FFOF (Y)
0.25-0.75" (6.4-19 mm)	19.7" (500 mm)	12" (305 mm)
1" (25 mm)	43.7" (1,100 mm)	36" (915 mm)
1.38" (35 mm)	55.7" (1,500 mm)	48" (1,220 mm)

2. System scale capacity:

Total (2 Load Cells)	
132 lbs (60 kg)	264 lbs (120 kg) 441 lbs (200 kg)

3. Cover is available in auto refill (shown), manual refill or with no cover. Cover may be rotated up to 360° to meet application requirements.

Standard inlet and vents:

For 1 cu ft (30 L) hoppers = 5" (127 mm) inlet & 3" (76 mm) vent

For 3 cu ft (83 L) hoppers = 10" (254 mm) inlet & 4" (102 mm) vent

4. Electrical service requirements:

230V, 3 phase, 16.2 amps max. full load current, 50/60 Hz

-or- 460V, 3 phase, 7.1 amps max. full load current, 50/60 Hz

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