

CHAIN *DISK*

FEED DELIVERY



UNLOCK BETTER PERFORMANCE

FLEXIBLE CONVEYING **GENTLE ON FEED**

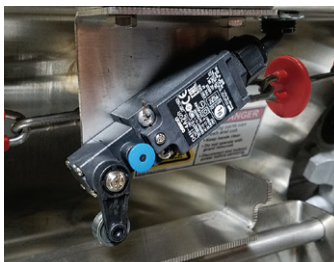
Chain Disk is ideally suited to delivering feed to multiple farrowing rooms, individual sow stalls, electronic sow feed systems and the high volume demands of large finishing facilities. The gentle conveying method limits damage to expensive pelleted rations and prevents particle separation in ground feed rations.



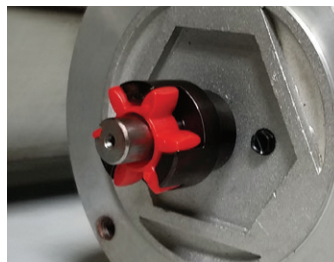
Chain Disk drive units are available with a clear door for visibility inside the unit.



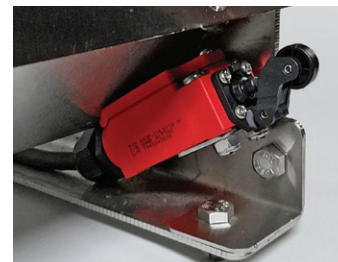
Corrosion resistant 304 stainless steel drive units feature heavy duty, high efficiency, helical bevel gearboxes.



The drive unit features an automatic chain tensioning system to reduce maintenance and a shut-off switch in case the system becomes plugged by a foreign object.



Gearboxes are grease-filled, and a Lovejoy coupler between the motor and gearbox allows for easy maintenance.



An optional door shut-off switch is available that de-energizes the CDDU shutting down the drive when the door is removed.

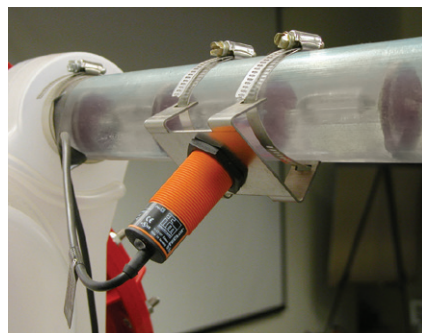
Durable, low friction nylon disks injection molded onto hardened steel chain provide years of trouble free service eliminating the maintenance and down time associated with cable style conveyors.



Chain Disk Tubing

Chain Disk is available with three styles of conveyor tubes to meet the requirements of every application.

- **PVC Tube** – Corrosion free and quick and easy to install, ideal for farrowing and other low volume applications
- **Welded Steel Tube** – Ideal for high volume applications like finishing and electronic sow feeding
- **Welded Steel Tube w/ Pre-Cut Holes** – High volume performance with the added convenience of pre-cut holes to reduce installation time. Hole spacing is available in 18", 19", 20", 22", 23", 24" and 26".



Tube Sensor

A tube mounted sensor will shut down the system when feed returns to the inlet hopper indicating that all feeders have been filled. The Chain Disk sensor design eliminates the challenges caused by empty farrowing or nursery rooms and eliminates the task of maneuvering sows in your breeding and gestation facilities to keep the feed system operating correctly.

Durable Corner Housing

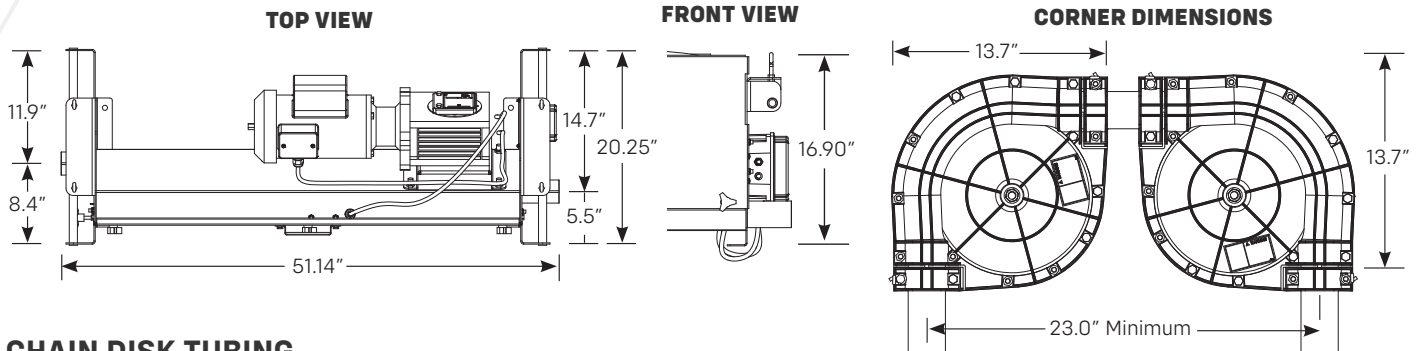
Corners have a tight radius allowing the system to turn 180° in a 24" space. Horizontal and vertical corners are available for maximum versatility. A cast metal wheel gently guides the chain through the corner. A sealed ball bearing will provide years of trouble free service.



Available In Two Models

The Chain Disk controller enables the feeding system to be programmed to operate how and when you want and constantly monitors the system to insure proper operation. The APCD-500 features a 24 hour time clock and actuator outputs making it ideal for automated feeding in breeding and farrowing facilities. The APCD-600 features continuous feeding making it the ideal controller for nurseries and finishing.

CHAIN DISK SPECIFICATIONS



CHAIN DISK TUBING

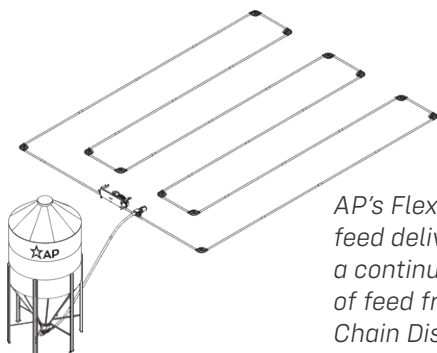
CHAIN DISK TUBE	RECOMMENDED APPLICATIONS	CHAIN DISK MUST NOT EXCEED ANY OF THESE 3 DESIGN CRITERIA				FLEX-FLO FILL SYSTEM	EFFECTIVE LENGTH	EFFECTIVE CAPACITY***
		MAX. CORNERS	MAX. CHAIN	MAX. EFFECTIVE LENGTH*	MAX. DAILY RUN TIME**			
2.36" OD PVC Tube	Farrowing/Lactation	24 Corners	1,150 Feet	1,750 Effective Feet	100 Minutes per Day	Model 300 @ 250 RPM (35 lbs. per minute)	Up to 1,000	35
							1,000 - 1,250	30
							1,250 - 1,500	25
							1,500 - 1,750	20
2.36" OD Welded Steel Tube	Breeding and Gestation with Electronic Sow Feeding (ESF)	24 Corners	1,900 Feet	2,000 Effective Feet	240 Minutes per Day	Model 300 @ 250 RPM (35 lbs. per minute)	Up to 1,500	35
							1,500 - 1,750	30
							1,750 - 2,000	25
							Up to 1,000	50
	Farrowing/Lactation	24 Corners	1,900 Feet	2,000 Effective Feet	240 Minutes per Day	Model 300 @ 358 RPM (50 lbs. per minute)	1,000 - 1,250	45
							1,250 - 1,500	40
							1,500 - 1,750	35
							1,750 - 2,000	30

Chain Disk Systems are designed to convey mashed, crumbled or pelleted feeds not to exceed 18% moisture content.

*Effective length of a Chain Disk system = Total feed of Chain Disk chain + (number of Chain Disk corners x 25)
Example - Seven-hundred feed of Chain Disk tubing + (Sixteen Chain-Disk corners x twenty-five) = 1,100 Effective ft.

**Daily Run Time of a Chain Disk system = Maximum daily feed requirement divided by "Effective Capacity"
Example - Eight-hundred gestation sows x five pounds per sow per day (4,000 lbs) / 20 pounds per minute
"Effective Capacity" = 200 Minutes

***Lbs. per minute based on 40 lbs. per cu ft. Effective Capacity of a Chain Disk system is the estimated actual fill rate of the system when adjusted for the cycling of the Flex-Flo fill system by the Chain Disk controller's current sensor to prevent system overload.



AP's Flex-Flo™ flexible auger feed delivery system delivers a continuously metered flow of feed from the bin to the Chain Disk system.



Contact your AP representative or visit automatedproduction.com for more information.