



RELIABLE AND LOW MAINTENANCE

# FLEX-FLO™ FEED DELIVERY



## Flexible Options, Reliable Delivery

AP's Flex-Flo™ feed delivery system adapts to a variety of configurations and capacities to meet today's demanding production requirements. Both tubing and augers are available in a variety of models to fit your specific requirements. Whether its ground feed, mash, high moisture corn, shelled corn or pellets, AP offers many flexible options for reliable feed delivery.



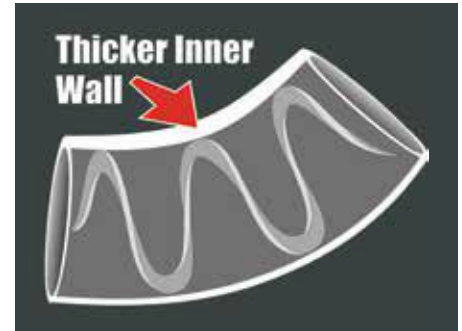
### DURABLE PVC TUBING

AP's polyvinyl chloride (PVC) tubing is extruded in our own facility to exacting standards and under our own quality control. Complete design and manufacturing control allows us to formulate the optimum compound for UV stabilization, strength, and wear resistance.



### DEPENDABLE AUGER

AP augers are coiled in-house from high tensile steel for consistent quality and strength. AP uses wire which is flattened prior to hardening which provides better resistance to distortion and an all around stronger product.



### ADDED ELBOW STRENGTH

For moving feed up and around corners, AP Flex-Flo™ elbows are specially formed with increased wall thickness on the inside of the elbow for added strength and wear resistance.

## Flex-Flo™ Specifications

	MODEL 220	MODEL 300	MODEL 300P	MODEL 350	MODEL HR	MODEL 500
Feed Delivery Rate Per Minute*	15 Lbs. (6.8 kg)	50 Lbs. (22.7 kg)	50 Lbs. (22.7 kg)	100 Lbs. (45.4 kg)	50 Lbs. (22.7 kg)	220 Lbs. (99.8 kg)
Std. Power Unit RPM	358	358	358	358	358	358
Outside Dia. of Tube	2.2" (56mm)	2.95" (75mm)	2.95" (75mm)	3.5" (89mm)	3.5" (89mm)	5" (127mm)
Corner Radius	5' (1.5m) or 10' (3m)	5' (1.5m)	5' (1.5m)	5' (1.5m)	5' (1.5m)	5' (1.5m)
Max. Length from BFT	250' (76m)	200' (61m)	200' (61m)	150' (46m)	150' (46m)	150' (46m)***
Max. Length Ext.**	300' (91m)	240' (73m)	240' (73m)	180' (55m)	180' (55m)	180' (55m)
Recommended Motor HP at Max. Length	1/2 HP	1 HP	1 HP	1 HP	1 HP	1.5 HP
Max. Moisture Rate	18%	18%	18%	18%	27%	27%
Type of Feeds	Ground, Mash, Small Particle	Ground, Mash, Small Particle	Ground, Mash, Small Particle, Pellets	Ground, Mash, Shelled Corn, Pellets	Shelled Corn, Large Particles, Pellets	Shelled Corn, Large Particles, Pellets
Max. Particle Size	1/8"(D) x 1/2"(L)	1/8"(D) x 1/2"(L)	1/8"(D) x 1/2"(L)	3/16"(D) x 1/2"(L)	3/8"(D) x 3/4"(L)	3/8"(D) x 1"(L)

\*Feed Delivery Rate calculated at standard 40 lbs. / cubic foot material (640 Kg per cubic meter)

\*\*Maximum length calculated with NO ELBOWS, subtract 15' from maximum length for each 45 degree elbow.

\*\*\*For High Moisture Corn, reduce system length by 50%.

NOTE: When more feed storage or multiple rations require tandem tanks, subtract 50' (15 mtrs.) from the Max. System Length. Specifications are subject to change without notice.



*Designed to withstand the rigors of the environment, AP has a feed delivery system to meet your specific needs.*

### **FLEX-FLO™ MODEL 300P**

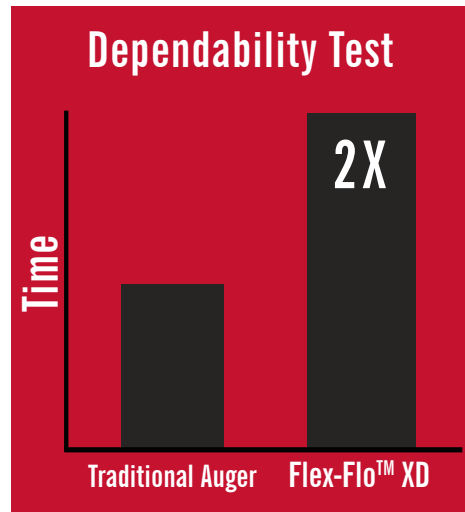
Designed for pelleted feeds, the model 300P auger adds more options and flexibility to your feed delivery system.



- Designed for pelleted feeds
- Easy retrofit
- No restrictor baffles required
- Identical feed flow from all tanks
- Slide gates can be opened 100%
- Similar system design requirements as M300 systems
- Can be used for all feed types

### **FLEX-FLO™ XD**

Flex-Flo™ XD utilizes an AP proprietary manufacturing process that provides twice the durability of a traditional auger.



**Flex-Flo™ XD is available in :**

**Model 500 (5" / 125mm)**

**Model 350 (3.5" / 90mm)**

**Model HR (3.5" / 90mm)**

**Model 300 (2.95" / 75mm)**

**Model 300P (2.95" / 75mm)**

### **Model 300 Specifications**

Maximum Particle Size	0.125" D x 0.5" L 3.18mm x 12.7mm
Maximum Moisture Rate	18%
Feed Delivery Rate	50 lbs. (22.7 kg)/Min. or 3000 lbs. (1360.7 kg)/Hr.
Type of Feed	Ground, Mash, Small Particle & Pellets
Maximum Distance with 1 BFT	210' / 64 M
Maximum Distance with 2 BFTs	160' / 48.8 M
Maximum Extension Distance	240' / 73.2 M
Maximum Daily Run Time	4 Hours





# FLEX-FLO™ FEED DELIVERY

## Powerful Performance

### FLEX-FLO™ CONTROL UNIT

- Utilizes proprietary sensing technology
- Fixed 30 second motor delay for electronic safety switch
- Operating status indicated via Bi-Color LED
- Controls single phase or three phase motors
- Non-corrosive construction for long life and durability
- Improved wiring connections (only one wire per terminal)
- Auger relay (Max 25 Amp load) rated for 1-1/2 HP Flex-Flo motors
- Additional contactor included for feed monitoring
- 240 volt, 50 Hz or 60Hz



Clear access door for quick and easy visual inspection



Bi-Color LED allows quick verification of operating status



Tube Anchors are available for Flex-Flo™ 220, 300, 350 and 500 models



Retrofit electronic sensor



Direct Drive Unit



### POWER UNITS

The Flex-Flo™ auger is driven by a 1/3 to 1-1/2 hp, totally enclosed, fan cooled motor at a standard 358 RPM (other speeds available for special applications). Whether direct or belt driven, the drive system includes an easily accessible maintenance port, a safety back up switch and visible light warning of back ups in the feed line, and automatic thermal shut-off switch.

### EXTENSION HOPPERS

For applications requiring distances over the maximum length for that size auger, extension hoppers are available to extend the overall length of the Flex-Flo system. Extension hoppers can be installed at 90° from the original auger to make turns and extend Flex-Flo Augers without using elbows.



## BOOTS AND UNLOADERS

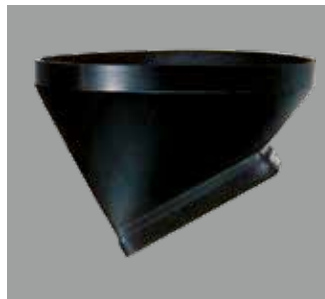
AP offers several unloader and boot type options designed for years of efficient and reliable operation. All boots are chemically blended with specially formulated ultraviolet inhibitors and impact modifiers to enhance durability and resilience. Unloaders include heavy-duty ball anchor and bearing assemblies for increased service life and reduced maintenance. From feed tank to feeder, you can rely on your AP feed delivery system to go the distance.



**DOUBLE BOOT**



**BLACK STRAIGHT  
DROP BOOT**



**BLACK 30°  
DROP BOOT**



**TRANSLUCENT STRAIGHT  
DROP BOOT**



**CLEAR STRAIGHT  
DROP BOOT**



### QUALITY UNLOADERS

All unloaders have a slide gate above the auger to shut feed off and a side inspection door. AP unloaders are available for 2.2" (55mm), 3" (75mm), 3.5" (90mm) and 5" (125mm) Flex Flo™ or 4" and 6" rigid auger systems.

### HEAVY-DUTY METAL BOOTS

Multiple outlet requirements can be easily handled by our 22" (559mm) all metal, double and triple boots.

*Long lasting and proven performance makes AP boots and unloaders a trusted choice.*





## Complete Feed Management

AP's feed delivery systems and management tools give you the ability to oversee and strategically react to production data for greater efficiency and performance. Take advantage of reliable Smart/IR infra-red feed sensing technology, receive automated system alerts via text or email with Network Master 2, or monitor and control all feed and environmental systems from the convenience of your home or office with EDGE®. AP can help take your production management to a whole new level.

### SMART/IR SENSOR

SMART/IR\* utilizes infrared technology to detect the level of feed and control all functions of the feed delivery system.

- Digital display with push button operation
- On delay timer to delay the start of the auger and eliminate short cycling.
- Maximum run timer shuts down a running feed delivery system at a pre-determined time, preventing costly feed spills and excessive wear caused by empty feed bins or feed bridging.
- Alarm contact can be wired to an Agri-Alert alarm system or on-site alarm to provide immediate notice that the maximum run time has been exceeded.
- SmartIR comes with a 20 Amp., 230 Volt internal relay compatible on all flexible auger feed delivery systems.



### SMART/IR II SENSOR

The SMART/IR II\* uses the same advanced feed detection logic as the Smart/IR with additional features including idle time alarm and Network Master connection capability.

- A maximum idle time can be set for instances where the SmartIR II continuously senses feed. This feature allows the user to be notified of a feed bridging event or the possibility of the pigs not eating.
- Up to 25 SmartIR II units can be connected to the Network Master via RS-485 wiring to communicate alarms and auger run-time.



## NETWORK MASTER 2

The Network Master 2 helps you monitor vital aspects of your production operation including feed consumption and inventory, temperature and water units.

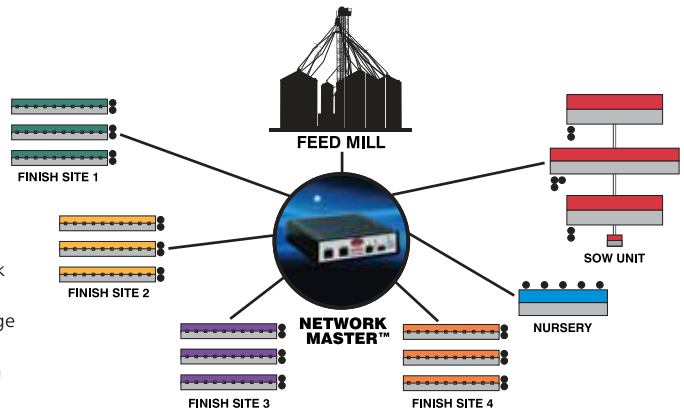
- Monitoring of vital facility operations.
- Up to 50 feed bin display units
- Up to 25 SmartIR II sensor units
- Up to 8 temperature and water units
- Up to 16 different notification contacts
- RF modules wirelessly communicate between devices\*
- Online dashboard - real time statistics and historical data
- Up to 16 different notification contacts

\*Expert controls require a wired connection to the Network Master. Total wired network can span 4,000 ft.

Annual fee-based service required for emails and texts. First year of service free of charge with initial purchase of Network Master.

A data-ready phone line or internet connection is required to allow the internal modem to communicate with the server.

An installation fee may apply. Online storage of data for 1 year.



Need on-the-go access? Download the Feed-Link Now! app to your Apple, Android or Windows PC device for remote access (internet access required) to your Network Master data. Feed-Link Now! monitoring options include feed levels, cumulative daily auger run times, cumulative water consumption, and current temperature. In addition, Feed-Link Now! provides email or text notifications of system failures due to power loss or parameters falling outside of predefined thresholds.



## EDGE® CONTROLLER

For complete monitoring and multi-location control over all feed and environmental systems, EDGE is the total package solution. EDGE is built on a modular architecture allowing the system to be designed to, and grow with, your specific needs. EDGE features integrated diagnostics and a triple layer of protection making it the most reliable controller in the industry.



# PROVEN & DEPENDABLE™

In today's competitive market place, it is essential to maximize the efficiency and performance of your swine production facilities. AP is the industry leader in the manufacture of innovative, durable and dependable swine production equipment designed to help you meet these goals.

## FLOW HAMMER

Feed bridging is more common as feed rations change due to fluctuating input costs and the use of alternative feed stuffs to lower cost and gain feed efficiency. The Flow Hammer is a reliable and affordable solution that easily adapts to most existing feed bins. This patented\* product aids in the prevention of out-of-feed events in all phases of swine production.

\*U.S. Patent No. 9,493,300



## DROP TUBE KITS

AP's original drop kit is available for all Flex-Flo Systems providing a totally enclosed outlet drop.



## KWIK-ATTACH DROP KIT

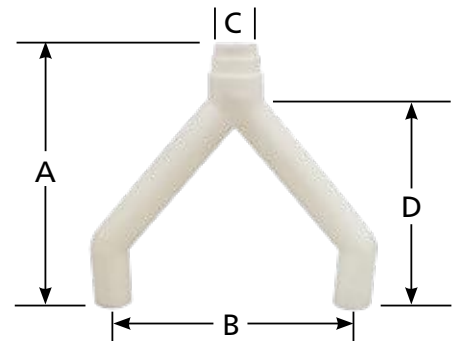
The Kwik-Attach drop kit is easy to install and attaches securely to avoid feed spills. This kit allows for complete clean out of feed and can be adapted with actuators for remote operation.



## Y-Drop Dimensions

	"A"	"B"	"C"	"D"
FLX-0502	26" (66 cm)	16.58" (42.11 cm)	3.25" (8.26 cm)*	20.62" (52.37 cm)
FLX-0503	26" (66 cm)	21.58" (54.81 cm)	3.25" (8.26 cm)*	20.79" (52.81 cm)
FLX-0603	26" (66 cm)	26.58" (67.51 cm)	3.25" (8.26 cm)*	20.79" (52.81 cm)

\*Includes a stepped inlet that can be cut to fit a 3" (7.62 cm) to 4.25" (10.8 cm) outlet drop. Specifications are subject to change without notice.



Look to AP for quality feed system solutions.



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