

**(800) 792-7427**  
**(352-628-6674**

## UNIVERSAL APRON FEEDERS



The Universal Apron Feeders consist of a continuous steel belt that is made up of overlapping flights or pans that are connected to and supported by steel chains. The underside of these flights is reinforced and designed to withstand impact. Apron Feeders provide a positive material flow and with variable speed drives can provide close control of the feed rate to the crusher. Apron Feeders are well suited for applications that require moving a high tonnage of coarse material where the impact loads are too severe for other types of feeders.

Universal Tractor Chain Apron Feeders are of extremely rugged construction. Designed for the demanding conditions seen for material handling applications in mineral/ore, coal, and aggregate mining and material processing operations. Universal has six model chain sizes FL4, FD4, FD7, FD9, FD10, and FD11. The chain pull and application determines which chain size is required for the Apron Feeder. There are fifteen standard widths and an infinite range of lengths. Each Apron Feeder is custom designed to meet a wide range of tonnage and application requirements.

For light duty applications we also offer Engineered Chain Apron Feeders. Please contact Universal Engineering Corp. for more information.

### **Standard Design Features:**

- Frame - Rugged welded steel beam frame with impact rails to limit flight deflection.
- Two Deck Options - Feeder flights are available in either cast manganese or formed steel.
- Heavy Duty Tractor Chain - Common crawler tractor components with hardened steel construction with a unique sealed design for long life.
- Carrying and Return Rollers - Both types of rollers feature lifetime lubricated, fully sealed bearings and are common crawler tractor components.
- Headshaft Bearing - Large anti-friction spherical bearings are used on the head shaft with cast steel bearing housings and labyrinth seal covers.
- Tail Wheel Assembly - Tractor idler wheels (Seal for Life) are mounted to a movable tail frame weldment, that is adjustable with take-up screws to the main frame.
- Drive Shaft and Sprockets - Cast manganese segmental sprockets are bolted to heavy steel hubs keyed to an oversized front drive shaft. Replaceable segmental sprockets are designed with an odd number tooth for optimum wear, easy removal and reversing without breaking the flight chains.

### **Optional Equipment Available:**

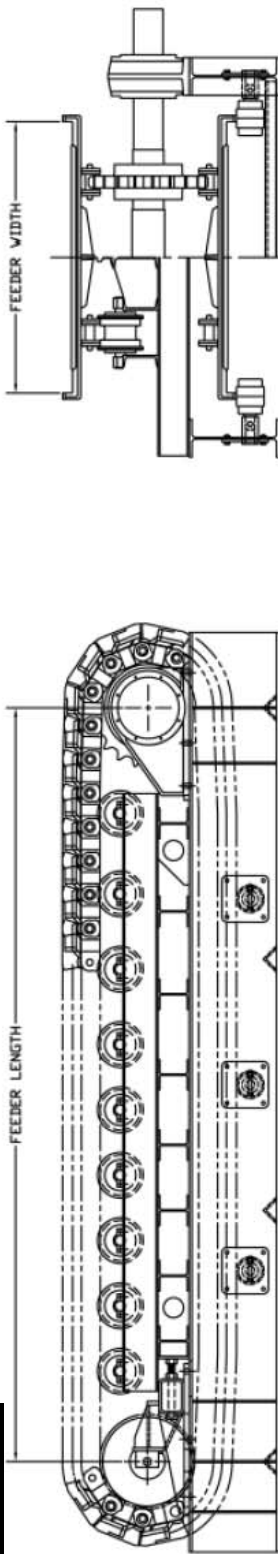
- Shaft-Mounted Gear Reducer
- Drive Units with Electric Motor
- Variable Frequency Drive Controller
- Skirting and Hoppers
- Automatic Lubrication System
- Dual Flushable Bearing Seals
- Motion Detector Switch
- Emergency Stop Switch
- Dribble Belt Conveyors
- Drag Scraper
- Pin Gates
- Guards



**For More Information or a Quotation, Contact Your McLanahan Dealer:**

**Gulf Atlantic Industrial Equipment, Inc.**  
**(352) 628-6674 or (800) 792-7427**  
**Info@GulfAtlanticEquipment.com**

**Gulf Atlantic**  **INDUSTRIAL EQUIPMENT INCORPORATED**  
Concrete, Aggregate, and Material Handling Equipment  
*Concrete Solutions with Rock Solid Results*  
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# UNIVERSAL APRON FEEDER CAPACITY CHART (T.P.H.) & MAXIMUM FEED SIZE (INCH)

| FLIGHT<br>SPEED FPM          | WIDTH OF FEEDER IN INCH |     |     |      |      |      |      |      |      |      |      |      |      |      |      |
|------------------------------|-------------------------|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|
|                              | 24                      | 30  | 36  | 42   | 48   | 54   | 60   | 66   | 72   | 78   | 84   | 90   | 96   | 108  | 120  |
| 10                           | 96                      | 150 | 216 | 294  | 384  | 486  | 600  | 726  | 864  | 1014 | 1176 | 1350 | 1536 | 1944 | 2400 |
| 15                           | 144                     | 225 | 324 | 441  | 576  | 729  | 900  | 1089 | 1296 | 1521 | 1764 | 2025 | 2304 | 2916 | 3600 |
| 20                           | 192                     | 300 | 432 | 588  | 768  | 972  | 1200 | 1452 | 1728 | 2028 | 2352 | 2700 | 3072 | 3888 | 4800 |
| 25                           | 240                     | 375 | 540 | 735  | 960  | 1215 | 1500 | 1815 | 2160 | 2535 | 2940 | 3375 | 3840 | 4860 | 6000 |
| 30                           | 288                     | 450 | 648 | 882  | 1152 | 1458 | 1800 | 2178 | 2592 | 3042 | 3528 | 4050 | 4608 | 5832 | 7200 |
| 35                           | 336                     | 525 | 756 | 1029 | 1344 | 1701 | 2100 | 2541 | 3024 | 3549 | 4116 | 4725 | 5376 | 6804 | 8400 |
| 40                           | 384                     | 600 | 864 | 1176 | 1536 | 1944 | 2400 | 2904 | 3456 | 4056 | 4704 | 5400 | 6144 | 7776 | 9600 |
| MAXIMUM<br>FEED SIZE<br>INCH | 12                      | 15  | 18  | 21   | 24   | 27   | 30   | 33   | 36   | 39   | 42   | 45   | 48   | 54   | 60   |

Capacities are based on material weighing 100 lbs. per cubic foot, plus the depth of the material is equal to the feeder width evenly loaded. In addition a feeding factor of 0.8 has been applied to allow for voids, resistance to flow, and other varying factors involved in transporting materials. For material of different weights and other travel speeds, the values will increase or decrease in direct proportion.

The information contained herein is general in nature and is not intended for specific construction, installation or application purposes. Predictions of actual performance of a given piece of equipment should take into account the many variable field factors, no warranty of any kind, expressed or implied. We reserve the right to make changes in specifications shown herein or add improvements at any time without notice or obligation.

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