

AUTIO PUMPS - PROVEN PRODUCT TRANSFER SOLUTIONS...



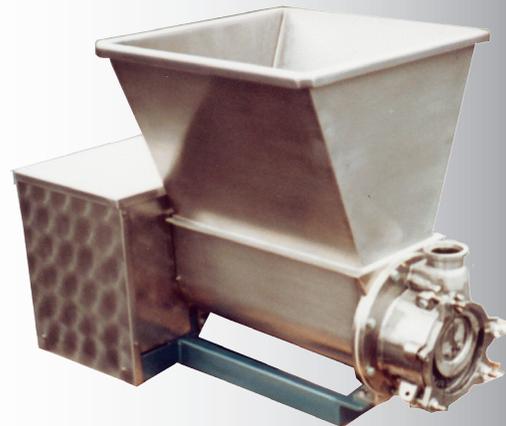
SPECIALIZED EQUIPMENT FOR THE FOOD INDUSTRY

FOR OVER 75 YEARS, AUTIO'S POSITIVE-DISPLACEMENT ROTARY VANE PUMPS HAVE PROVIDED RELIABLE, COST-EFFECTIVE TRANSFER SOLUTIONS FOR THE TOUGHEST PRODUCT APPLICATIONS. AUTIO PUMPS ARE AVAILABLE AS A STAND-ALONE APPLICATION OR AS AN ADD-ON TO YOUR EXISTING PROCESSING EQUIPMENT.

- ✓ EFFECTIVELY TRANSFERS GROUND MEAT, FISH, POULTRY AND OTHER SEMI-SOLID PRODUCTS.
- ✓ HANDLES A VARIETY OF PRODUCT SIZES, FROM SMALL TO VERY COARSE, INCLUDING GROUND AND CHUNKED MEATS, FATS, BONES, SLURRIES, RESIDUES, WASTE.
- ✓ SAVES PRODUCT BY ELIMINATING CONVEYORS, BELTS AND OTHER TRANSFER EQUIPMENT THAT LOSE MATERIAL.
- ✓ LOW MAINTENANCE, EASY CLEANUP.
- ✓ TRANSFERS UP TO 2 1/2 LBS. PER REVOLUTION.
- ✓ THREE PUMP SIZES AVAILABLE. OUTPUTS UP TO OVER 40,000 LBS. PER HOUR.
- ✓ AVAILABLE IN STAINLESS STEEL, PLATED OR BLACK.
- ✓ AVAILABLE IN COMPLETE PUMPING UNIT WITH MOTOR & GEAR BOX OR AS PUMP ONLY FOR USE IN YOUR EXISTING PRODUCTION LINE.
- ✓ USDA APPROVED.
- ✓ CUSTOM BUILT TO ORDER.
- ✓ NOW AVAILABLE IN MULTIPLE VANE CONFIGURATIONS FOR INCREASED METERING EFFICIENCY

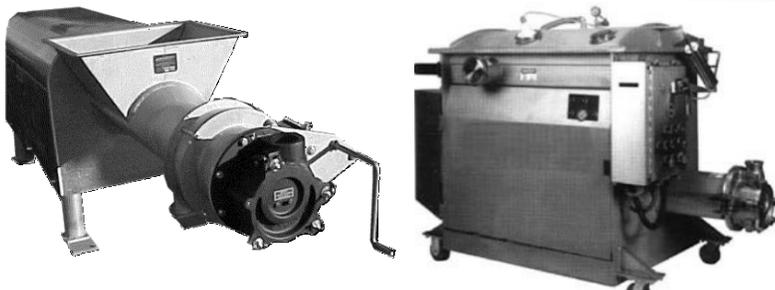


Autio Rotary Vane Pump



Autio Pumping Unit with hopper attached.
Hopper built to your specifications

OEM OPTIONS: Autio Product pumps can be readily used as a component in your existing equipment lines and applications



**FOR MORE INFORMATION
OR FOR A QUOTE
CALL (800) 483-8884
or e-mail sales@autioco.com**

Autio Products must be installed and operated in accordance with all applicable health and safety regulations. Guards and safety equipment are not shown in photos.

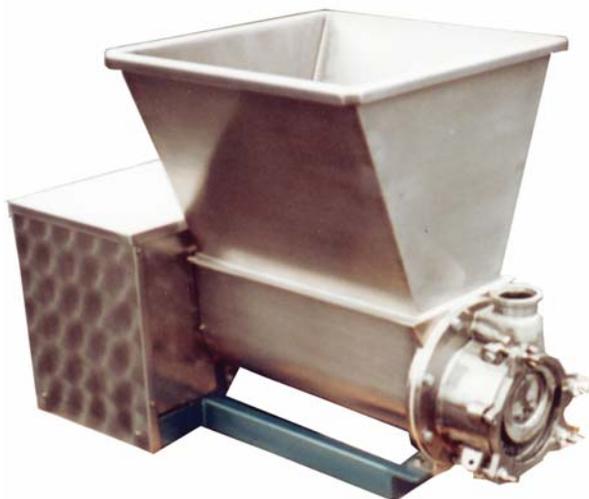
93750 Autio Loop • Astoria, Oregon 97103 USA
Phone: (503) 458-6191 • (800) 483-8884
Fax (503) 458-6409 • Web: www.autioco.com

AUTIO ROTARY VANE PRODUCT PUMPING UNITS



SPECIALIZED EQUIPMENT FOR THE FOOD INDUSTRY

FOR OVER 75 YEARS, AUTIO'S POSITIVE-DISPLACEMENT ROTARY VANE PUMPS HAVE PROVIDED RELIABLE, COST-EFFECTIVE TRANSFER SOLUTIONS FOR THE TOUGHEST PRODUCT APPLICATIONS. AUTIO PUMPS ARE AVAILABLE AS A STAND-ALONE SOLUTION OR AS AN ADD-ON TO YOUR EXISTING PROCESSING EQUIPMENT.



Autio Pumping Unit with hopper attached.
Hopper built to your specifications

Autio Pumping Unit Specifications

Pump Discharge	2 1/2"	3"
Auger Length	To order	To order
Width	37"	37"
Length	To order	To order"
Height	36"	36"
Hopper size	24" x 24"/order	24" x 24"/order
Weight	1000 lbs	1000 lbs
RPM	190	190
Motor	5 hp Electric*	5 hp Electric*
Gearbox	9 :1 reduction	9 :1 reduction
Capacity *	22,500 lbs/hr	40,000+ lbs/hr

- ✓ STAND-ALONE UNIT WITH MOTOR AND GEARBOX MEANS EASY INTEGRATION IN YOUR PRODUCT LINE.
- ✓ EFFECTIVELY TRANSFERS GROUND MEAT, FISH, POULTRY AND OTHER SEMI-SOLID PRODUCTS.
- ✓ HANDLES A VARIETY OF PRODUCT SIZES, FROM SMALL TO VERY COARSE, INCLUDING GROUND AND CHUNKED MEATS, FATS, BONES, SLURRIES, RESIDUES, WASTE.
- ✓ SAVES PRODUCT BY ELIMINATING CONVEYORS, BELTS AND OTHER TRANSFER EQUIPMENT THAT LOSE MATERIAL.
- ✓ LOW MAINTENANCE, EASY CLEANUP.
- ✓ TRANSFERS UP TO 2 1/2 LBS. PER REVOLUTION.
- ✓ THREE PUMP SIZES AVAILABLE. OUTPUTS UP TO OVER 40,000 LBS. PER HOUR.
- ✓ AVAILABLE IN STAINLESS STEEL, PLATED OR BLACK.
- ✓ USDA APPROVED.
- ✓ CUSTOM BUILT TO ORDER.
- ✓ NOW AVAILABLE IN MULTIPLE VANE CONFIGURATIONS FOR INCREASED METERING EFFICIENCY

Autio Products must be installed and operated in accordance with all applicable health and safety regulations. Guards and safety equipment are not shown in photos.

93750 Autio Loop • Astoria, Oregon 97103 USA
Phone: (503) 458-6191 • (800) 483-8884
Fax (503) 458-6409 • Web: www.autioco.com

AUTIO PUMP VOLUMETRIC PERFORMANCE TABLE

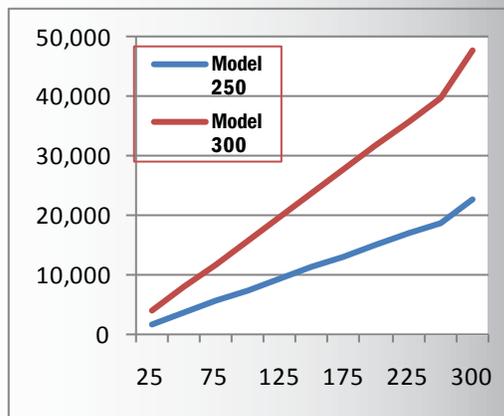


SPECIALIZED EQUIPMENT FOR THE FOOD INDUSTRY

Autio Model 250 2.5" Pump Performance*

RPM	Lbs/Sec	Lbs/Min	Lbs/Hr	Typical HP
25	0.525	31.50	1,890	3/4 - 3
50	1.050	63.00	3,780	3/4 - 3
75	1.575	94.50	5,670	1 - 5
100	2.100	126.00	7,560	2 - 5
125	2.625	157.50	9,450	3 - 5
150	3.150	189.00	11,340	3 - 5
175	3.675	220.50	13,230	5 - 7.5
200	4.200	252.00	15,120	5 - 7.5
225	4.725	283.50	17,010	5 - 7.5
250	5.250	315.00	18,900	5 - 10
300	6.300	378.00	22,680	5 - 10

Production (Lbs/hour at specified RPM)



Assumptions:

Theoretical maximum performance at .0337 cubic foot per revolution for Model 250, .0706 cubic foot per revolution for Model 350

Typical actual performance of 75% of theoretical maximum, or .0252 cubic ft. per revolution for Model 250 and .0252 cubic ft. per revolution for Model 300.

1 cubic foot = 50 Lbs.

Autio Model 300 3" Pump Performance*

RPM	Lbs./Sec.	Lbs/Min	Lbs/Hr	Typical HP
25	1.102	66.13	3,968	1-5
50	2.204	132.25	7,935	2 - 5
75	3.306	198.38	11,903	1-5
100	4.408	264.50	15,870	5 - 7.5
125	5.510	330.63	19,838	5 - 10
150	6.613	396.75	23,805	5 - 10
175	7.715	462.88	27,773	7.5 - 10
200	8.817	529.00	31,740	7.5 - 10
225	9.919	595.13	35,708	10 - 15
250	11.021	661.25	39,675	10 - 15
300	13.225	793.50	47,610	10 - 15

*NOTES: Results will vary depending on the actual application used. Pump volumetric efficiency may decrease with:

1. Head pressure
2. Product viscosity & particle size
3. Pump wear

Sample values shown above assuming the following applications:

1. Moderate head pressure (2 1/2" pump to 3" line, 3" pump to 4" line, 25 ft. run, 6 ft. rise)
2. Medium viscosity product (emulsified bone, 3/8" ground fish)
3. Modest pump wear (1/8" flat on vane ends, 2 1/2" pump)

Autio Products must be installed and operated in accordance with all applicable health and safety regulations. Guards and safety equipment are not shown in photos.

93750 Autio Loop • Astoria, Oregon 97103 USA
 Phone: (503) 458-6191 • (800) 483-8884
 Fax (503) 458-6409 • Web: www.autioco.com