



DEWATERING PRESS

**Squeeze
the *Most*
Profit out
of your
feathers !!!**

**Reduce Costs
Increase Capacity**

REDUCE STEAM COSTS:

Dewatered feathers have reduced steam requirements due to the following:

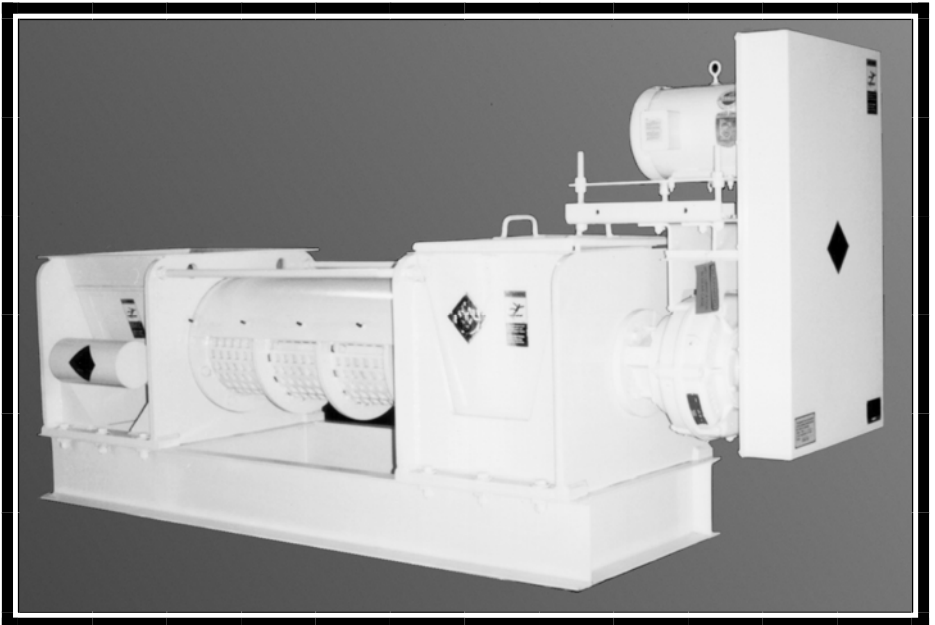
1. Large *reduction in mass* to be processed.
2. Reduction in *hydrolyzing cycle* requirements.
3. Reduction/elimination of *cooker drying time* requirements.

REDUCE HAULING COSTS:

Feathers which are dewatered prior to transport to the process facility reduce hauling costs by reducing the water being hauled by as much as 50%.

INCREASE CAPACITY:

Reductions in mass being processed, coupled with processing gains from reduced hydrolyzing and hydrolyzer drying cycles represent large increases in process capacity.



Design features set the ALLOY Dewatering Press apart from others.

SHAFT MOUNTED REDUCER:

The ALLOY Dewatering Press incorporates a Dodge® Shaft Mounted Reducer to avoid side stress on the shaft.

LOW HORSEPOWER:

The ALLOY Press is unique in its *low horsepower requirements*, processing up to 45,000# per hour with 40 HP.

SMALL FOOTPRINT:

The ALLOY Press is compact requiring *minimal floor space*, easily facilitating retrofits into existent space.

MINIMAL SERVICE:

The ALLOY Press uses *minimal wear parts*, each with long wear characteristics. As a result the Press can be operated for years with minimal attention and cost.

STANDARD COMPONENTS:

The ALLOY Press uses readily available Dodge® drive and bearing components for *local availability*.

10,000# Per Hour Press

Sized to Meet Your Needs

A complete line of dewatering presses sized to meet your process needs as follows:

5,000 Lbs./hour -ROI: 6.6 Months*
Horsepower - 10
Water Removed/Hour: 2,000#
Fuel Cost per therm: \$2.30
Annual Steam Savings: \$40,600
Investment: \$21,000

10,000 Lbs./hour -ROI: 4.8 Months*
Horsepower - 15
Water Removed/Hour: 4,000#
Fuel Cost per therm: \$2.30
Annual Steam Savings: \$81,300
Investment: \$30,600

20,000 Lbs./hour -ROI: 2.9 Months*
Horsepower - 20
Water Removed/Hour: 8,000#
Fuel Cost per therm: \$ 2.30
Annual Steam Savings: \$162,700
Investment: \$36,500

30,000 Lbs./hour -ROI: 2.3 Months*
Horsepower - 30-40
Water Removed/Hour: 12,000#
Fuel Cost per therm: \$2.30
Annual Steam Savings: \$243,900
Investment: \$42,000-\$45,000

40,000 Lbs./hour -ROI: 2.2 Months*
Horsepower - 40
Water Removed/Hour: 16,000#
Fuel Cost per therm: \$2.30
Annual Steam Savings: \$325,300
Investment: \$50,000-\$57,000
* See Reverse for details.

CALL ALLOY TODAY
800-328-8408 or 952-492-5569
952-492-3100 (fax)
www.alloyhardfacing.com or
email msa@alloyhardfacing.net



Squeeze the most out of your feathers



CAPACITY:

Pounds per Hour	5,000	10,000	15,000	20,000	25,000	30,000	40,000
Hours per Day	16	16	16	16	16	16	16
Days per Year	260	260	260	260	260	260	260

MOISTURE:

INPUT	70	70	70	70	70	70	70
OUTLET	50	50	50	50	50	50	50

ESTIMATED COSTS:

THERMAL DEWATERING:

Steam							
Gas \$/1000 Cubic Foot	2.30	2.30	2.30	2.30	2.30	2.30	2.30
Boiler Efficiency	0.80	0.80	0.80	0.80	0.80	0.80	0.80
Pounds Steam/Pound of Water	1.70	1.70	1.70	1.70	1.70	1.70	1.70

MECHANICAL DEWATERING:

Press Horsepower	7.50	15.00	20.00	20.00	25.00	30.00	40.00
Electrical \$/KWH	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Load Factor Percentage	0.80	0.80	0.80	0.80	0.80	0.80	0.80

Pounds Water Removed/Hour:	2,000	4,000	6,000	8,000	10,000	12,000	16,000
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STEAM SAVINGS :

BY MECHANICAL DEWATERING

Pounds of Steam per Hour	3,400	6,800	10,200	13,600	17,000	20,400	27,200
Cost of Steam per 1000#	\$2.875	\$2.875	\$2.875	\$2.875	\$2.875	\$2.875	\$2.875
Steam Savings/Hour	\$9.77	\$19.55	\$29.32	\$39.10	\$48.87	\$58.65	\$78.20
Steam Savings/Day	\$156	\$312	\$469	\$625	\$782	\$938	\$1,251

STEAM SAVINGS/YEAR	\$40,664	\$81,328	\$121,992	\$162,656	\$203,320	\$243,984	\$325,312
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PRESS OPERATING EXPENSES:

ELECTRICAL:

Press KWH per Day	4.47	8.94	11.92	11.92	14.90	17.88	23.84
Cost per hour	\$0.31	\$0.46	\$0.62	\$0.62	\$0.93	\$0.93	\$1.24
Cost per Day (16 Hours)	\$4.96	\$7.44	\$9.92	\$9.92	\$14.88	\$14.88	\$19.83

Cost per Year (260 days)	\$1,289	\$1,933	\$2,578	\$2,578	\$3,867	\$3,867	\$5,157
Maintenance (Estimated/Year)	\$666	\$1,333	\$2,000	\$2,666	\$3,333	\$4,000	\$5,333
Effluent (Estimated/Year)	\$1,666	\$3,333	\$5,000	\$6,666	\$8,333	\$10,000	\$13,333

ANNUAL OPERATING EXPENSES:	\$3,623	\$6,601	\$9,579	\$11,912	\$15,534	\$17,868	\$23,824
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NET SAVINGS (MONTHLY):	\$3,087	\$6,227	\$9,368	\$11,958	\$14,958	\$18,843	\$25,124
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NET SAVINGS (ANNUAL):	\$37,041	\$74,727	\$112,413	\$143,499	\$179,496	\$226,116	\$301,488
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BUDGET INVESTMENT:	\$20,600	\$29,850	\$32,500	\$36,500	\$39,000	\$43,500	\$57,000
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MONTHS FOR R.O.I.:	6.6	4.8	3.5	2.9	2.5	2.3	2.2
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Call Today to discuss squeezing *The Most Profit* form your feather operation

Phone: 1-800-328-8408



FAX: 952-492-3100