ROTARY FEEDERS

BUILT PRECISELY FOR MAXIMUM UPTIME"



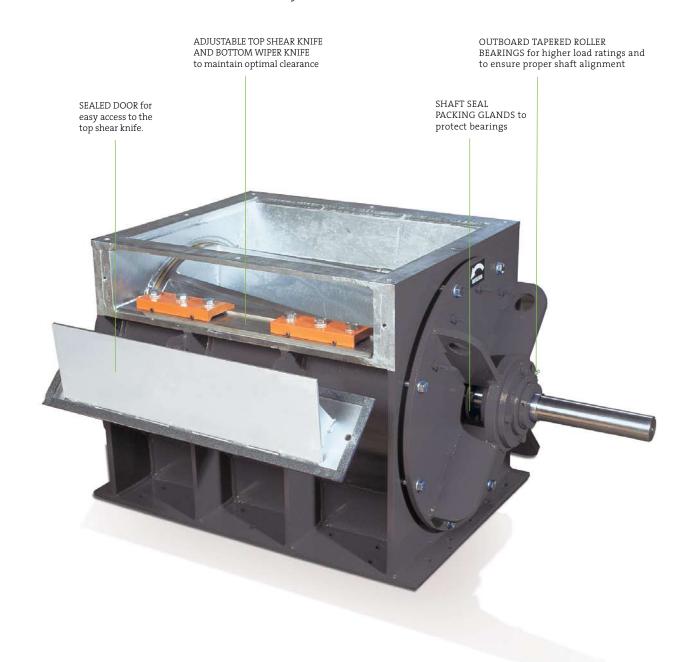
Built to last
Standard or custom sizes
Wide range of capacities
Quality materials



FIRST IN PRECISION. BEST IN CLASS. BUILT TO LAST.

Precision feeders withstand harsh materials and unforgiving environments longer than other rotary feeders. Why? First up, 30 years of innovative feeder engineering and machining experience. Second, durable materials. For example, hardened stainless steel-tipped rotor blades and precise clearances to maximize efficient handling of your material are standard. Precision feeders are completely fabricated and individually machined to hold the tolerances ideal for the specific materials you move. And, because the barrel is thicker and hardened with chrome, you can squeeze many more lives out of one feeder.

We have dozens of off-the-shelf sizes in stock, but we will gladly custom design a feeder specific to your application, or manufacture to your design and specifications. Your existing feeder is worth a trade-in allowance on a new Precision Rotary Feeder.



TAKES A BEADING AND KEEPS ON FEEDING.

Precision rotary feeders can take a beating from beads, seeds, pellets, pits, chips, gypsum, marble and all kinds of biomass materials for years on end before they wear out. The barrel is extra thick so it can be rebuilt one or two times before needing replacement. That means more uptime, higher productivity, and less cost over its long, long life. So don't let your bottom line take a beating, especially when all these features can be yours with Precision.





THE FEEDER PERFECTED BY 30 YEARS OF FEEDRACK

Precision began by repairing rotary feeders. We learned a lot about why feeders wear out before we decided to engineer, machine, and fabricate the most durable and efficient rotary feeders available anywhere. That was over 30 years ago. Today, as always, all of our feeders are made in the USA of quality materials. They are designed with extra thick barrels so they can be rebuilt at least once or twice before needing replacement. You'll see from the special features and benefits listed below that no detail is overlooked, right down to complete instructions and safety stickers. With periodic inspection and your scheduled maintenance program, your Precision Rotary Feeder will give you many years of reliable service to maximize uptime and productivity.

DURABILITY

- Shaft-seal packing glands protect bearings.
- Outboard tapered roller bearings support higher load ratings and ensure correct shaft alignment.
- Rotor blades are machined and hard-surfaced with stainless steel to extend life.

FLEXIBILITY

- Adjustable top shear knife and bottom wiper knife maintain proper clearances.
- Sealed door provides easy access to the top shear knife.
- Externally adjustable brass end seals maintain proper rotor end clearance.

OUALITY CRAFTSMANSHIP

- Rotor and barrel are machined to application tolerances.
- A hard chromed barrel reduces friction and extends life.
- A removable, replaceable drive shaft machined from stressproof steel provides added strength.

"Precision Machine & Manufacturing,
Inc., worked with us to specially design a
Rotary Feeder for our mobile equipment.
Engineered to our specifications, the
Rotary Feeder meters a variety of
mulches and compost, and is always
precise and dependable."

—David Looney
Former Production Supervisor,
Express Blower

CUSTOMERS SAY IT BEST.



"We used to change our rotary valves every 3 months. Now, due to Precision Machine's experience with advanced metallurgy and quality control, we do so only once per year, and we're looking at ways to improve the reliability beyond that. The payoff is in lower costs and increased efficiency."

Graeme Donaldson
 Vice President and Plant Operations
 Manager, Colmac Energy, Inc.





Bagasse Petroleum Coke

Bark Plastics
Biomass Fuel Salt Cake
Cement Sawdust
Charcoal Wood Chips
Coal Wood Pellets







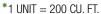
A NEW PRECISION FEEDER WITH THE IDEAL CAPACITY FOR YOUR APPLICATION CAN INCREASE PRODUCTIVITY AND EFFICIENCY.

The right capacity feeder for your application can increase productivity. Precision gives you a wide range to choose from, plus custom capacities. We also offer a trade-in allowance for your used feeder if you replace it with a new Precision Rotary Feeder. Or, we can rebuild your current feeder.

STANDARD CAPACITY ROTARY FEEDERS (CUSTOM CAPACITIES ON REQUEST)

RECOMMENDED		

		•			-	HEGOMMENDE	D OMI MOIII III	011110 / 110011	
Model	CFR	Maximum Recom. RPM	Length	Height	Width	Screened Chips Sawdust Bark or Shavings	Unscreened Chips Hammer, Hog Bark, Scr. Hog Fuel	Unscreened Knife Hog Fuel	Estimated Weight (lbs.)
PMR 14X18	.93	45	19.25	18	18	5.0	-	-	500
PMR 16x20	1.46	45	21	21	20	8.0	_	_	800
PMR 20X20	2.19	42	21	26	25	14.25	10.2	_	1300
PMR 20X25	2.93	42	26	26	25	19.25	13.7	-	1450
PMR 20X30	3.66	42	31	26	25	24.50	17.5	15.5	1600
PMR 25X30	5.65	38	31	32	31	37.2	28.7	20.7	1800
PMR 25X35	6.78	38	36	32	31	43.5	33.6	24.0	2000
PMR 30X30	8.45	35	31	38	38	52.5	42.9	34.8	2450
PMR 30X35	10.30	35	36	38	38	63.0	51.3	40.8	2700
PMR 30X40	11.10	35	41	38	38	71.0	58.0	46.0	2950
PMR 30X45	12.70	35	46	38	38	83.5	68.0	54.0	3200
PMR 35X45	17.20	32	49	44	44	120.6	103.0	87.0	4600
PMR 35X50	19.35	32	54	44	44	137.0	116.0	98.0	5200
PMR 35X55	21.50	32	58	44	44	152.0	130.0	109.0	5800
PMR 45X45	30.00	29	55	56	56	195.0	172.0	144.0	11500
PMR 45X50	33.75	29	60	56	56	220.0	193.0	162.0	12200
PMR 45X55	37.50	29	65	56	56	244.0	214.0	180.0	13000







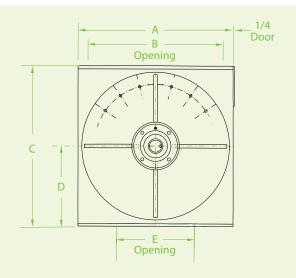


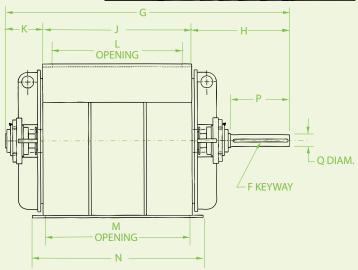
FEEDER SIZE SELECTION GUIDE

The Precision Rotary Feeder is a full-featured, completely fabricated rotary valve, built for extreme durability using the finest quality materials throughout.

No job too big.
More than 15 different
off-the-shelf sizes
from 45" x 55"
down to 14" x 18"
are ready to ship and
fit your application
precisely.





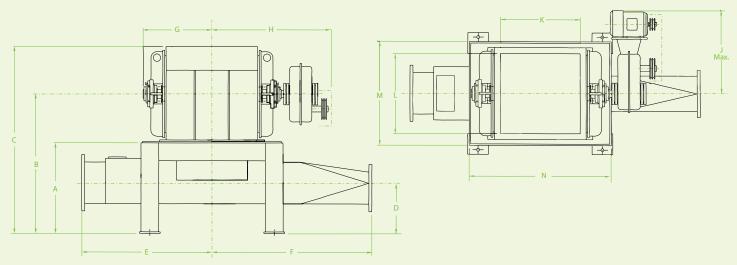


DIMENSIONS

SIZE	A	В	С	D	E	F	G	Н	J	K	L	M	N	P	Q
14X18	18.00	15.00	18.00	9.00	9.00	½x¼x7	44.00	15.56	19.25	9.19	15.00	18.00	22.00	8.38	1 ¹⁵ / ₁₆
16X20	20.00	16.00	21.00	10.50	10.00	½x¼x9	46.00	17.25	21.00	7.75	16.50	20.00	24.00	9.25	1 ¹⁵ / ₁₆
20X20	25.00	21.00	26.00	13.00	10.00	½x¼x9	47.00	16.75	21.00	9.25	16.00	20.00	25.00	9.25	2 ³ / ₁₆
20X25	25.00	21.00	26.00	13.00	13.00	½x¼x9¼	51.25	17.00	26.00	8.25	21.00	25.00	30.00	9.50	2 ³ / ₁₆
20X30	25.00	21.00	26.00	13.00	13.00	½x¼x9½	56.50	17.25	31.00	8.25	26.00	30.00	35.50	9.75	2 ³ / ₁₆
25X30	31.00	27.00	32.00	16.00	15.50	⁵ / ₈ x ⁵ / ₁₆ x11¾	59.00	20.25	31.00	7.75	27.00	30.00	35.50	12.25	2 ⁷ / ₁₆
25X35	31.00	27.00	32.00	16.00	15.50	⁵ / ₈ x ⁵ / ₁₆ x11¾	64.00	20.25	36.00	7.75	31.00	35.00	40.50	12.25	2 ⁷ / ₁₆
30X30	38.00	34.00	38.00	19.00	20.00	34 x ³ / ₈ x1134	61.00	21.25	31.00	8.75	26.00	30.00	38.00	12.00	$2^{15}/_{16}$
30X35	38.00	34.00	38.00	19.00	20.00	$\frac{34}{8}$ x^{3} / ₈ x^{1} $1\frac{34}{9}$	66.00	21.25	36.00	8.75	31.00	35.00	43.00	12.00	$2^{15}/_{16}$
30X40	38.00	34.00	38.00	19.00	18.00	34 x ³ / ₈ x11½	72.50	21.00	41.00	10.50	35.00	40.00	47.00	13.00	$2^{15}/_{16}$
30X45	38.00	34.00	38.00	19.00	18.00	⁷ / ₈ x ⁷ / ₁₆ x11½	77.50	21.00	46.00	10.50	40.00	45.00	52.00		3 ⁷ / ₁₆
35X45	44.00	36.00	44.00	22.00	22.75	1x½x13	85.00	23.50	49.00	12.50	41.75	47.75	55.25		$3^{15}/_{16}$
35X50	44.00	36.00	44.00	22.00	22.75	1x½x13	90.00	23.50	54.00	12.50	47.00	52.75	60.75		$3^{15}/_{16}$
35X55	44.00	36.00	44.00	22.00	22.75	1x½x13	95.00	23.50	58.00	12.50	52.00	57.75	65.75		$3^{15}/_{16}$
45X45	56.00	46.00	56.00	28.00	30.00	$1\frac{1}{4}x^{5}/_{8}x15^{1}/_{8}$	98.00	28.00	55.00	15.00	42.00	47.00	55.00		$4^{15}/_{16}$
45X50	56.00	46.00	56.00	28.00	30.00	11/4x ⁵ / ₈ x15 ¹ / ₈	103.00	28.00	60.00	15.00	47.00	52.00	60.00		4 ¹⁵ / ₁₆
45X55	56.00	46.00	56.00	28.00	30.00	11/4x ⁵ / ₈ x15 ¹ / ₈	108.00	28.00	65.00	15.00	52.00	52.00	65.00		4 ¹⁵ / ₁₆

The Precision Rotary Feeder can be furnished with an optional injector tee and mounting stand for pneumatically conveyed applications using a check valve, which prevents material from back-flowing into the blower. The injector tee has a bolt-on side door for easy access to the feeder's bottom knife. There is also a top bolt-on door for access to the check valve and to adjust air flow through the injector tee. All components can be custom designed to fit your line size and center lines.





DIMENSIONS WITH INJECTOR TEE

SIZE	A	В	С	D	E	F	G	Н	J	K	L	M	N
14X18	23	32	41	12	31	40	19	32	29	15	15	20	34
16X20	23	34	44	12	33	45	19	34	29	16	16	22	36
20X20	37	50	63	18	36	57	20	34	27	16	21	28	37
20X25	37	50	63	18	38	60	22	36	27	21	20	28	42
20X30	37	50	63	18	41	62	24	39	27	26	20	28	47
25X30	37	53	69	18	44	66	24	42	30	27	27	34	47
25X35	37	53	69	18	46	69	26	45	30	31	27	34	52
30X30	47	66	85	24	48	77	25	43	32	26	34	40	47
30X35	47	66	85	24	50	80	27	46	32	31	34	40	52
30X40	47	66	85	24	53	82	31	48	36	35	34	40	57
30X45	47	66	85	24	55	85	34	50	36	40	34	40	62
35X45	54	76	98	24	63	98	37	54	40	42	36	45	69
35X50	54	76	98	24	66	100	40	57	40	47	36	45	74
35X55	54	76	98	24	68	103	42	59	40	52	36	45	79

Note: Dimensions shown are for the maximum line size. Mounting dimensions available upon request from our engineering department.

PRECISION MACHINE & MANUFACTURING, INC.

Founded in 1977, Precision Machine & Manufacturing, Inc. has grown steadily into a modern, complete OEM facility. Today, Precision Machine is recognized as one of the nation's leading designers and manufacturers of rotary valves, rotary feeders and screw conveyor material handling systems and components that deliver maximum uptime to its customers.

Precision Machine's products are designed and fabricated in the USA using the latest CNC and robotic equipment to handle virtually any dry, granular or powdery material. Precision's tight tolerances and high quality construction materials and finishes ensure maximum uptime, especially for customers handling abrasive substances such as fly ash, coal, coke, volcanic cinders, diatomaceous earth and pebble lime.

PRECISION PRODUCTS OF UNMATCHED VALUE

ROTARY VALVES The company's flagship product, the PMV® modular rotary valve, is unique, heavy-duty and precision-built, using modular construction instead of a cast housing. Machined to the tightest tolerances, the PMV modular rotary valve operates more efficiently for longer periods. Worn parts are simply unbolted and inverted or replaced, enabling the PMV to be rebuilt in place, cutting downtime. PMV valves have been known to extend the useful life to over four times the life of cast valves. FEEDERS Precision Machine's rotary feeders are precisely engineered with heavier barrels and can be rebuilt many times before needing replacement. The rotor blades are hard surfaced to give extended life, and the barrel material can be manufactured from mild steel, stainless steel or alloy steel up to 500 Brinell to meet harsh application requirements.

SCREW CONVEYORS Precision manufactures its screws to any specified size using virtually any commercially available material. Standard screw configurations include variable pitch, tapered flights, cut flights, screws with integrated mixing paddles, and ribbon screws. The company is the leader in custom screws for challenging applications.

CUSTOM PRODUCTS The company's innovative engineering department transforms customer ideas into new long-lasting, hard-working material handling products for special needs – all designed to increase throughput, improve efficiency, and maximize uptime.

SERVING MATERIALS HANDLING MARKETS

The company works closely with biomass power cogeneration, mining, cement, chemical, wood products and pharmaceutical customers throughout North America to create unique solutions that maximize uptime and handling efficiency in order to give customers a competitive edge in their markets.

BUILT PRECISELY FOR MAXIMUM UPTIME™

There are rotary valves, feeders, or screw conveyors that are priced less than Precision, but none that make you more efficient, more productive, or more profitable. For moving virtually any dry, granular or powdery material smoothly in measured amounts, nothing performs better. All designs are available in left- or right-hand flow directions. All machining, welding, and manufacturing services are performed in the USA.

We've been designing and manufacturing smarter products of unmatched value for over 30 years. Our innovative engineering department and skilled craftspeople work with customers to create unique solutions that give them a competitive edge by increasing throughput, improving efficiency, and maximizing uptime. Are you pushing productivity? We can help. Call us.

For more information or a quote, call toll free 1-800-722-9841 or email sales@premach.com.



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