SIZE REDUCTION

IPA MILL

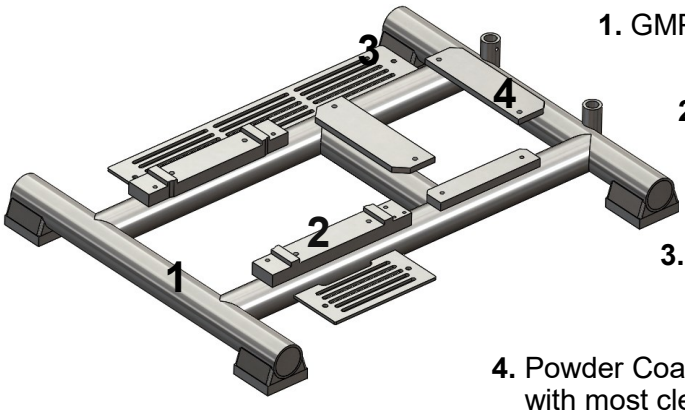
M6x15 Mill Pictured

Benefits

- Simplistic Engineering Design
- Universal base to meet Industrial, Pharma, & Nutra standards
- Streamline Chamber Mount
- Wash Down Duty Drive
- Maintenance Considerations:
  - * Removable Pulleys (In-Field)
  - * Designed for Water Run-Off

The IPA Mill is designed with an economical approach and built for companies who want to keep the same robust performance and durability as the classic “Industry Workhorse.”

Mills within the industry have used the same manufacturing practices for decades. IPA’s innovative and modern approach uses a simple engineering design with improved maintenance. The universal tubular base meets the requirements for all manufacturing industries and is designed to resist standing water. IPA’s flywheels are designed for ease of removal and installation, minimizing down time and improving efficiency when maintaining equipment in the field.



1. GMP Tubular Design

2. Monoblock Design for Mounting Mill

3. Water Drainage Below Guards

4. Powder Coated Base compatible with most cleaning agents

Processing Tip

Common Error:

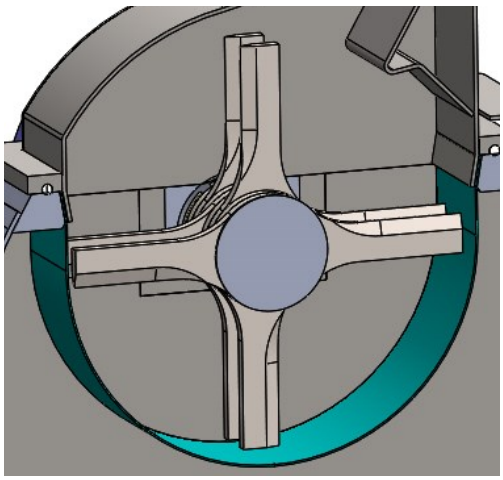
Sealing the discharge. This applies back pressure to the milling chamber, retaining material longer & increasing fines.

Solution:

The discharge of the mill must breathe. The mill is designed for natural air flow through the screen and into the product container.

The Milling Process.

Impact Milling



IPA's objective is to achieve controlled size reduction with predictable and repeatable results. The IPA Mill reduces particle size using an "in-air" impact method. Unlike other more aggressive "compression" or "pinching" methods between the rotor and screen, impact milling shatters material along its natural "fracture point" resulting in the highest first impact yield. This technique is preferred as it *minimizes the percentage of material requiring a second impact, maintains a lower temperature, and reduces overall fines generation.*

The IPA Mill is versatile and can be configured for use in the initial, middle, or final phase of an application. By altering mill features, such as ***feed throat***, ***rotor styles***, and ***screen type***, this industry "Workhorse" will produce the desired final product.

The IPA Mill Series

Mill Size	Competitive Model	Rotor Diameter	Mill Speed Ratio	Capacity Range (0.079" - 0.25" RH Screen)	Scale Up Factor	Mill Overall Dimensions (LxWxH)
		inch / cm	Ratio	lbs/hr / kgs/hr	Ratio	inch / cm
LSM	L1A	5.4 **in**	1.94	28 - 105 **lbs/hr**	0.07	19x13x22 **in**
		13.7 **cm**		13 - 48 **kgs/hr**		48x33x56 **cm**
(P)M6X15	D6A / DASO6	10.50	1.0	400 - 1500	1.0	39x30x64
		26.67		180 - 680		100x75x160
M12x15	DKASO12	10.50	1.0	960 - 3600	2.4	42x36x73
		26.67		435 - 1635		105x90x185
M8x22	FASO8	14.375	0.743	720 - 2700	1.8	61x36x63
		36.51		325 - 1225		155x90x160
M12x22	FASO12	14.375	0.743	1120 - 4200	2.8	61x40x63
		36.51		510 - 1910		155x100x160
M20x22	FASO20	14.375	0.743	1960 - 7350	4.9	63x49x85
		36.51		890 - 3340		160x125x215
M30x28	HASO30	17.25	0.609	3600 - 13500	9.0	77x69x70
		43.82		1635 - 6135		195x175x178

INNOVATIVE PROCESS APPLICATIONS

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