

MODEL **IMD 1060** SUPERNOVA.XE COFFEE GRANULIZER

SUPERIOR GRINDING Technology for Precision Coffee Grinding and Control



Model IMD 1060 Supernova.XE Coffee Granulizer

The IMD 1060 Supernova.XE Granulizer is specifically designed for coffee grinding applications where **particle size control and consistency are required**. Large diameter rolls (250 mm), Independent Motors Drives for each grinding section and roll differential ratios allow for a **high degree of grind manipulation**. A recipe-driven PLC control system monitors and controls all aspects of grind size and density control with **“Real Time” performance feedback** - any time, any place.

SPECIFICATIONS

- Roll Size(s):** 250 mm (10”) dia x 1060 (42”) or 1320 (52”) mm long
- Sections:** Two (2) vertically stacked grinding sections
- Power:** 15 - 22 kw [20 - 30 hp] per section
22 kw [30 hp] normalizer section
50 or 60 hz designs
- Drawing(s):** Available for download on website

ACCOMODATES ALL GRIND SIZES

ESPRESSO: FINO TO GROSSO	EURO FINE
PODS	FILTER
COARSE/SOLUBLE	REGULAR
	DRIP



MODERN PROCESS EQUIPMENT CORPORATION

THE WORLD'S LEADING MANUFACTURER OF COFFEE GRINDING EQUIPMENT

Model	Roll Size (mm)	Sections	Normalizer	Approximate Capacity								
				1.0	2.0	3.0	4.0	5.0	6.0	7.0		
				(MT/hr)								
				2,200	4,400	6,600	8,800	11,000	13,200	15,400	(lbs/hr)	
IMD 1060	250 x 1060	2 - 3	Y	[Capacity bars for 1060 model]								
IMD 1320	250 x 1320	2 - 3	Y	[Capacity bars for 1320 model]								

Traditional Grind Range [average size in microns]

Espresso Fino	175 - 225 microns
Espresso Grosso	225 - 275 microns
Euro Fine	550 - 650 microns
Filter	650 - 800 microns

FEATURES:

Greater Capacity and Efficiencies with Modular Grinding Sections

Each modular grinding section is driven by its own high-efficiency **Independent Motor Drive (IMD)**, which allows for faster roll speeds and higher throughput than single drive motor designs. Relative roll speeds range from 1:1 (low-shear) to 3:1 (high-shear) ratios and roll speeds up to 2,500 rpm are possible.



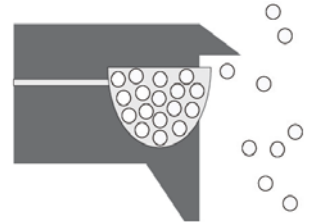
Rugged Design and Construction

Heavy-duty construction and oversized double spherical roller bearings provide a long service life, reduced vibrations and maintain tight tolerances under extreme conditions.



Intelligent Density Control Systems

Coffee density is accurately regulated utilizing normalizer motor amperage feedback and precision discharge control. MPE's optional **"RT" Density System** measures coffee density in "Real Time" at 1 minute intervals and provides instant feedback to the Granulizer control system for absolute density control.



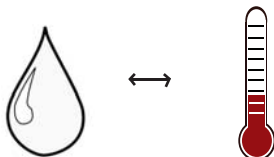
Recipe: 21		Roll Gap
Actual	0.0350 in	80%
Recipe	0.0350 in	72%
Actual	0.0080 in	67%
Recipe	0.0080 in	

Automated Recipe-Driven Control System with Precision Servo Gap Control

Unique pneumatic servomotor design and precision gap measurement on each grinding section provide easy, microfine gap adjustments with accuracy of +/- 10 microns. The Recipe-Driven Control System monitors and controls all grind and density requirements.

Water-Cooled Rolls and Coffee Temperature Systems

Temperature-controlled water-cooling in each grinding section and normalizing (homogenizing) process **preserves the coffee volatile oils and aroma** and prevents a "second roast" during grinding. The IMD 1000 Series normalizer features veined water channels and a large surface area for optimal cooling transfer.



Advanced Roll Materials - Optional

Advanced roll materials provide up to 5 times standard roll life and **near diamond surface hardness** for exceptional wear-resistance and long-term grind performance.

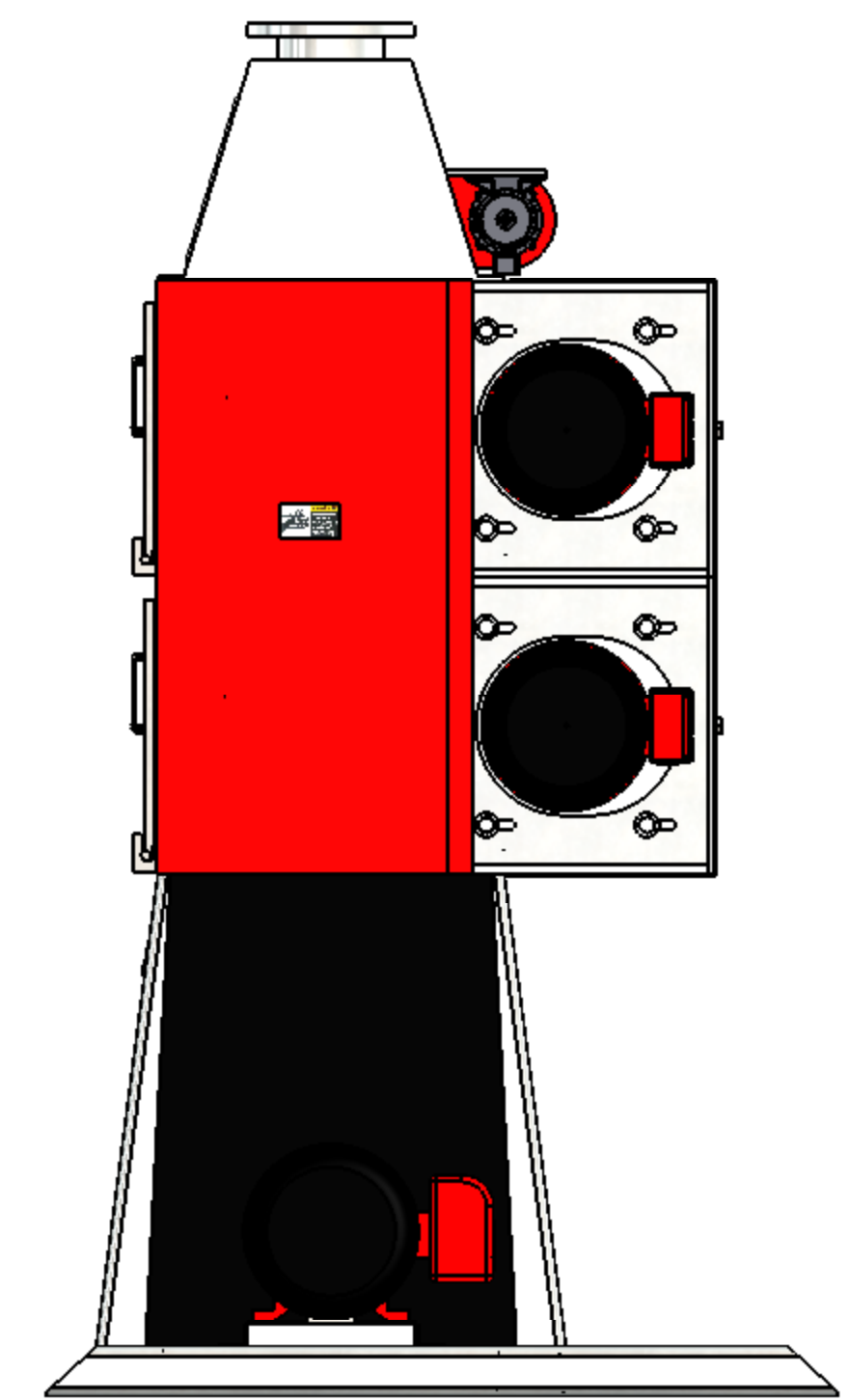
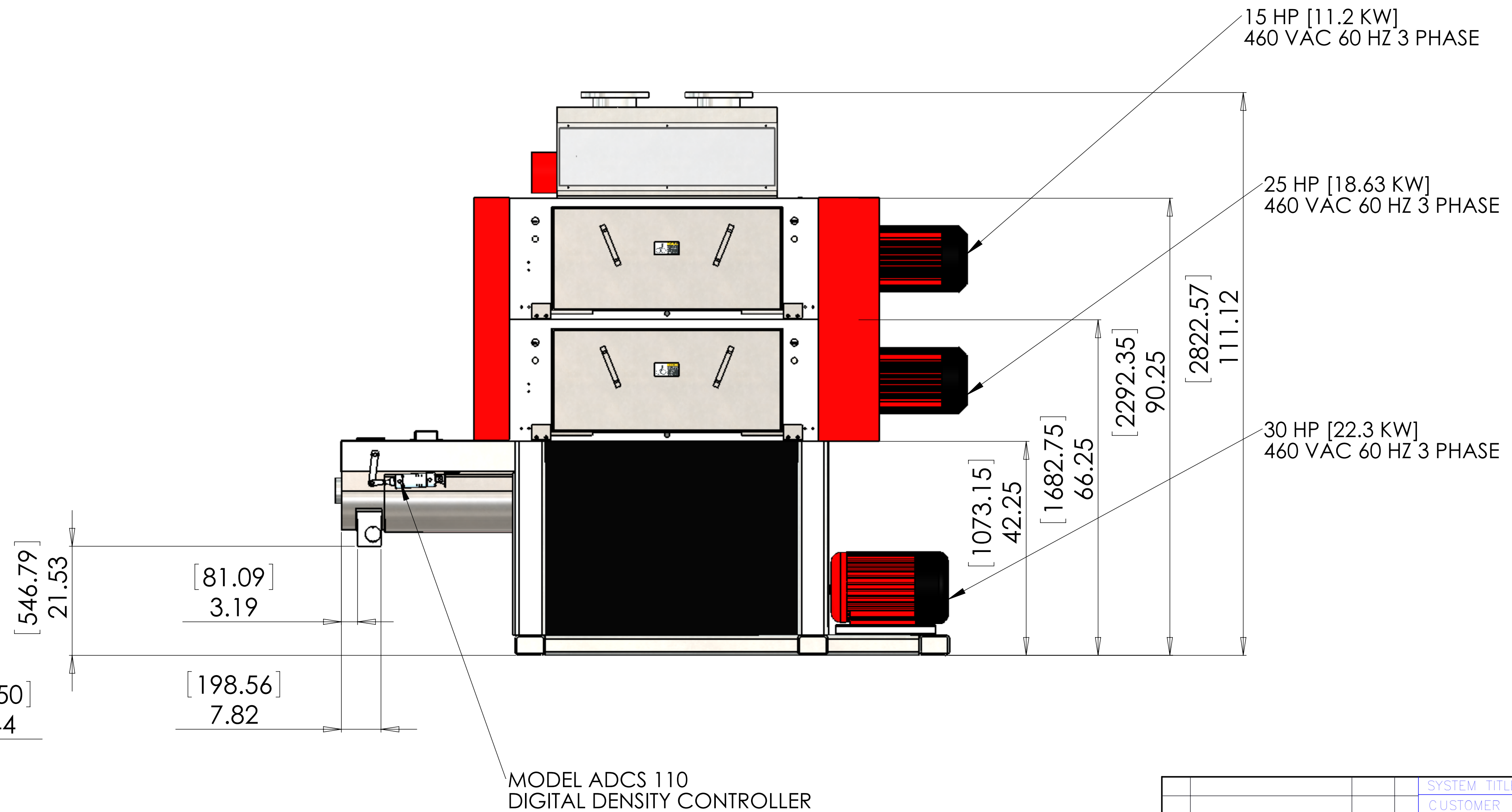
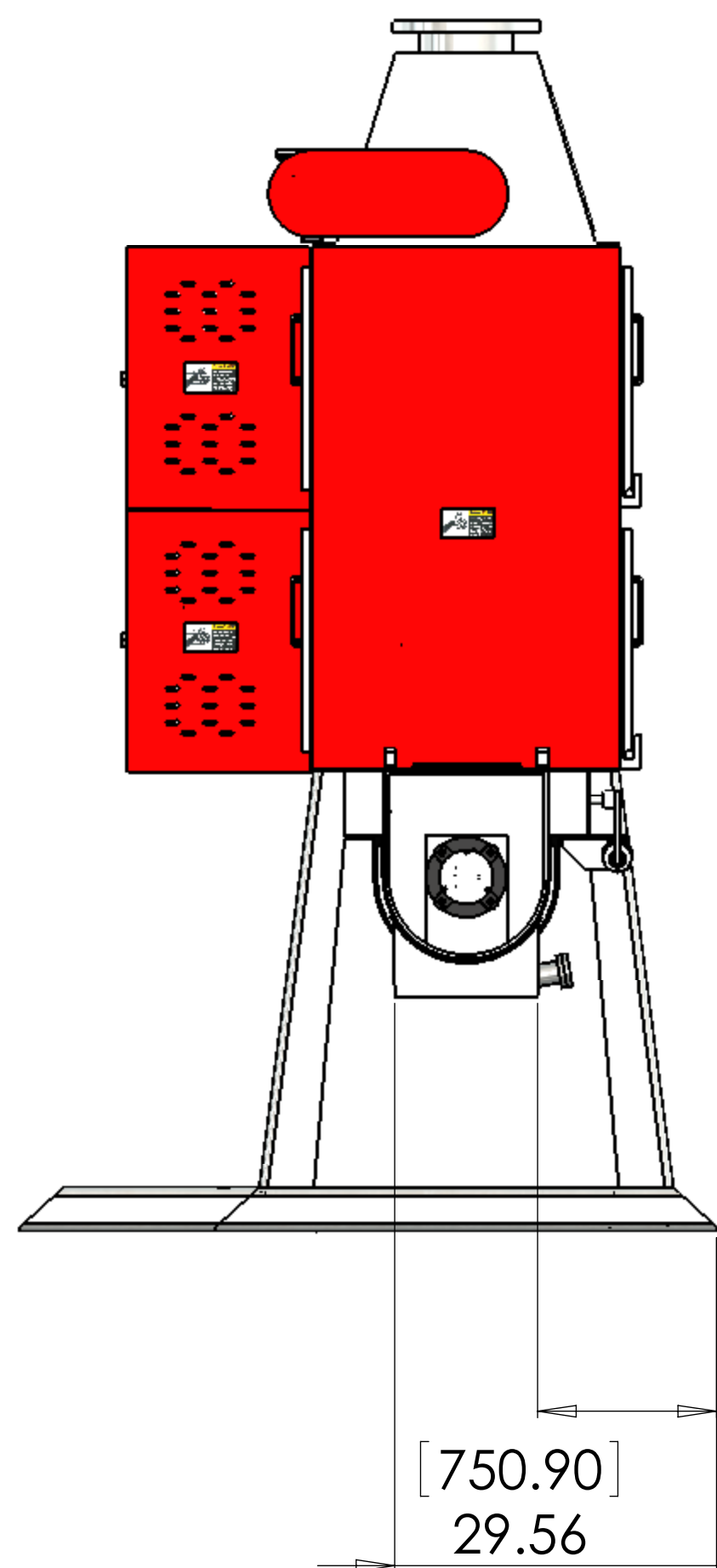
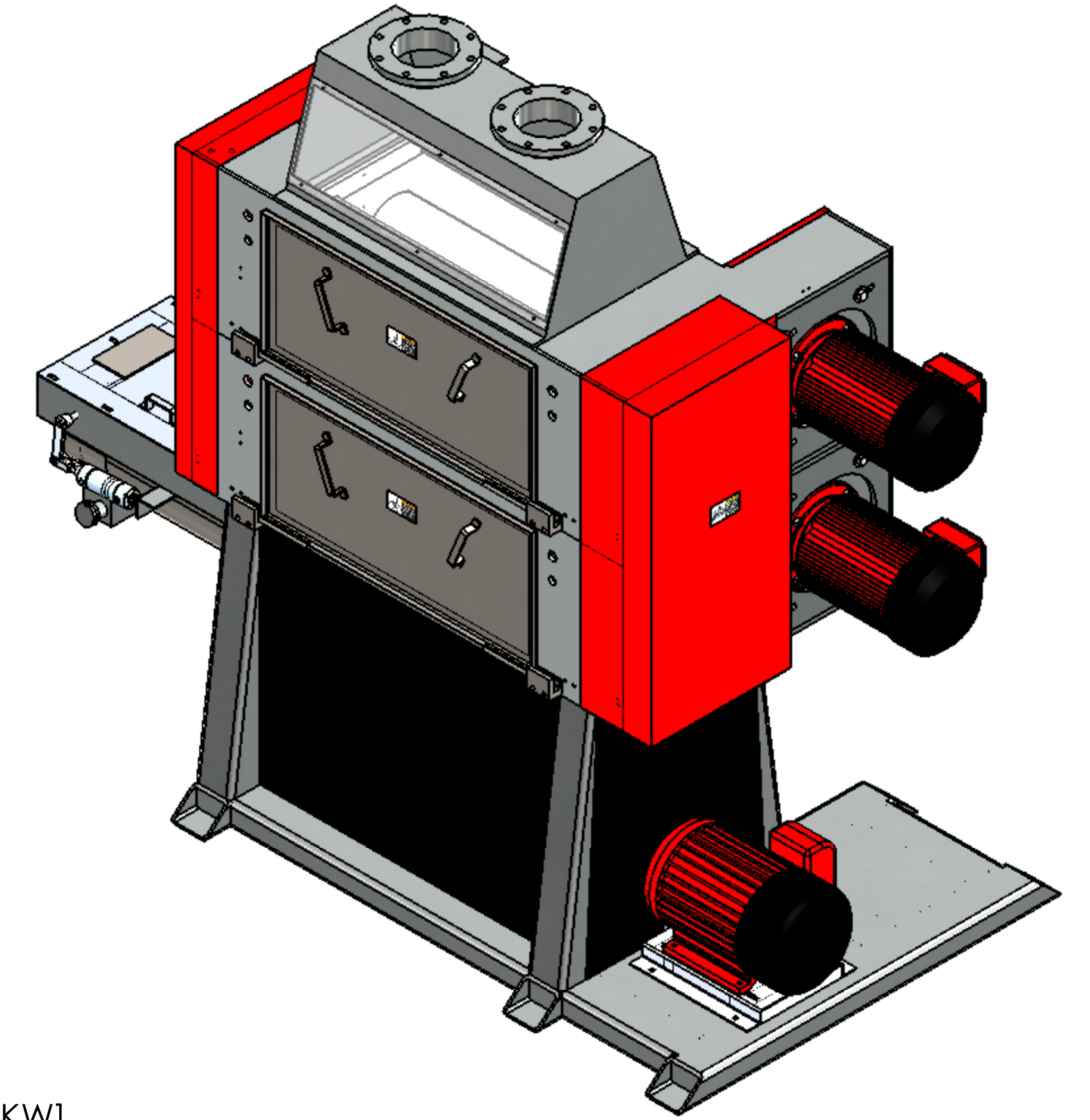
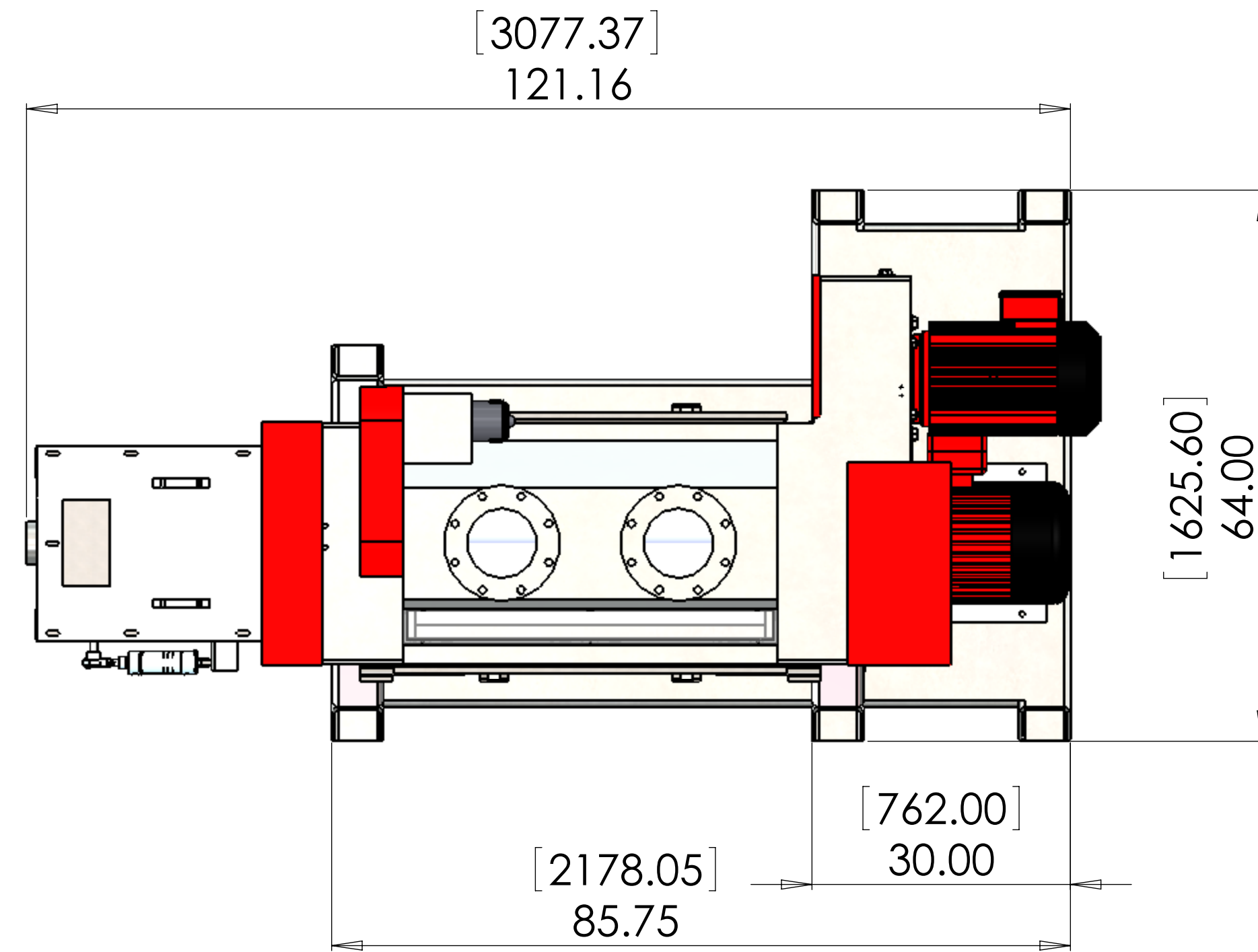
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MODEL ADCS 110
DIGITAL DENSITY CONTROLLER

REV	CHANGE	DATE BY	SYSTEM TITLE	CUSTOMER	<small>CONFIDENTIAL</small> <small>THIS MATERIAL IS THE</small> <small>CONFIDENTIAL PROPERTY OF</small> <small>MODERN PROCESS SYSTEMS</small> <small>INC. AND SHOULD NOT BE</small> <small>REPRODUCED, PUBLISHED OR</small> <small>DISCLOSED WITHOUT</small> <small>EXPRESSED WRITTEN CONSENT</small> <small>PRINT MUST BE RETURNED</small> <small>UPON REQUEST.</small>	MODERN PROCESS EQUIPMENT, Inc. <small>3125 South Keller Avenue, Chicago, Illinois 60623</small> <small>PH: (773)254-3929, FX: (773)254-3935</small>	DRAWN: CMS DATE: 9/20/06 CHECKED:	SCALE: NTS
			DRAWING TITLE	SERIES 1000 EUROFINE GRINDER		DRAWING NO.	E-1000 EUROFINE	