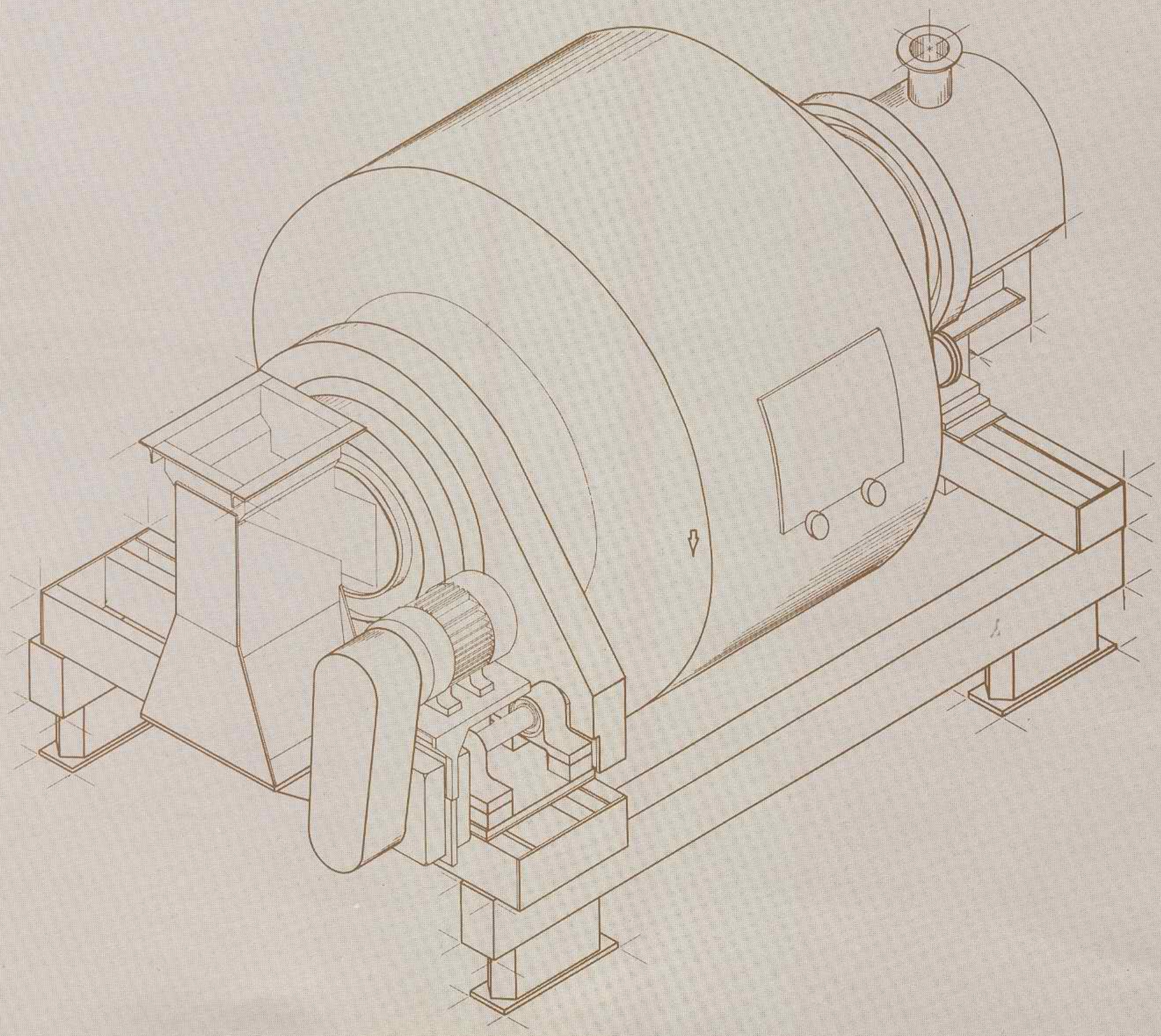
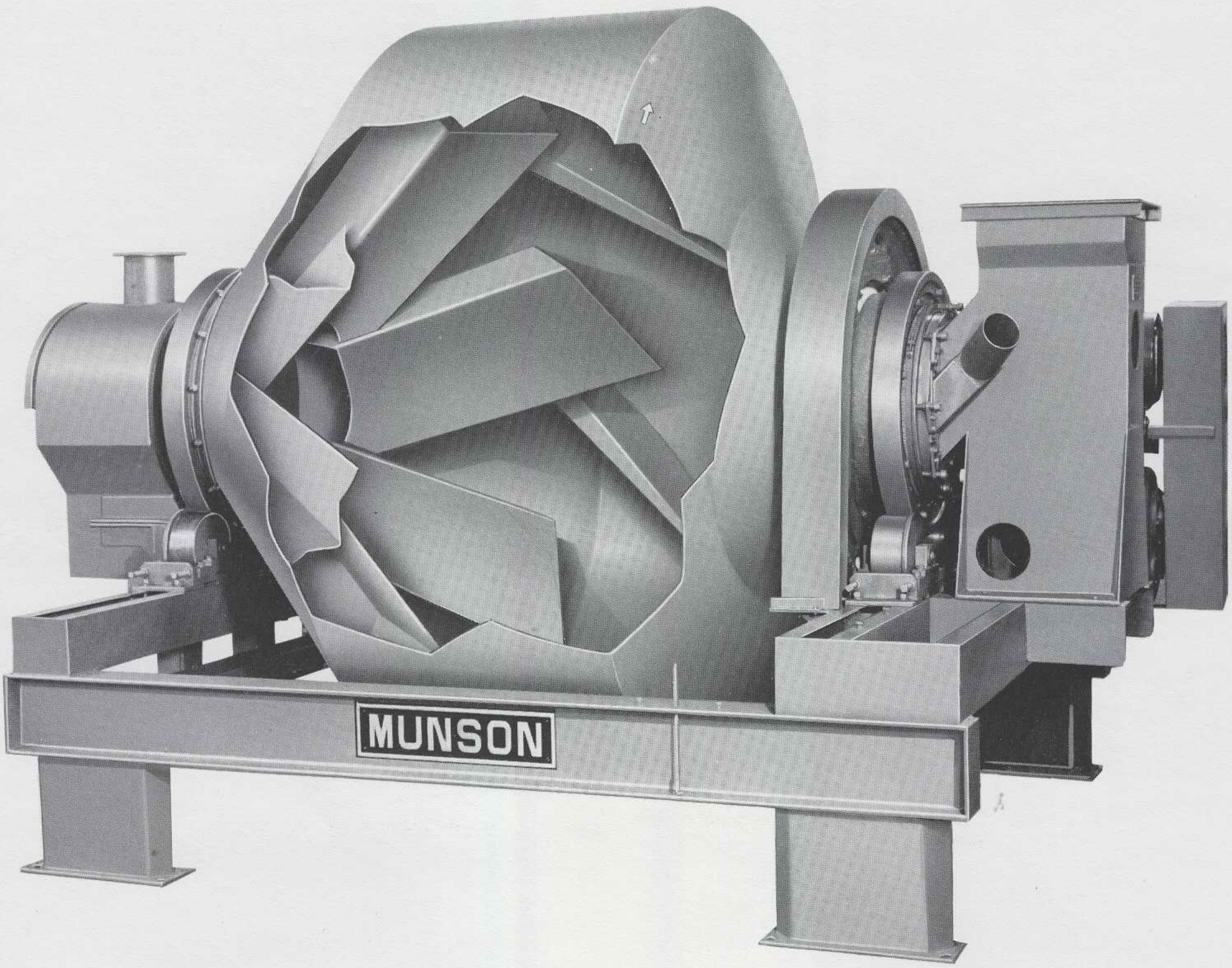
MUNSON

ROTARY BATCH MIXER/ GLASS BATCHER

provides continuous mixing action

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Integral Mixing Action

Rotating mixing drum employs internal mixing lifters which produce a 4 way mixing action — tumbling, turning, cutting and folding of product ingredients.

Mixing drum is truncated at intake end with internal mixing lifters fully extended to insure complete mixing of total batch ingredients.

Proven ability to mix materials with up to 10:1 density variations.

Extremely gentle mixing action insures minimal product degradation, making mixer suitable for processing friable, temperature and pressure sensitive materials.

Thorough and rapid inter-mixing of trace ingredients, additives, dies, pigments and scents.

No product stratification or segregation during discharge cycle as mixer continues to blend materials as they are discharging.

Action creates ideal "fluid bed" conditions for uniform impregnation, encapsulation, drying or cooling processes.

Process Features

Designed to be integrated into fully automated process systems.

Charging, mixing and discharging cycles may be sequenced, enabling mixer to operate totally labor-free.

Multiple nozzle internal liquid spraying systems are available.

Totally enclosed, dust free design, suitable for processing many toxic materials.

Rapid, complete product discharge.

Single floor operation, requiring minimal head space.

Design and Construction

Mixers are furnished as single unit assemblies, with self-contained drives.

Entire assembly is supported by a structural steel bed frame assembly.

Mixing drum rotation and alignment is maintained by a series of adjustable journal and roller bearing supported steel trunnion roller assemblies.

Mixers are equipped with a thrust roller assembly to prevent axial movement of drum.

Available materials of construction include carbon steel, abrasion resistant steels and various grades of stainless steel.

Mixing drums are equipped with gasketed, service access doors.

Batch Sizing and Capacities

Rated mixer capacities are established as approximately ½ drum volume for Rotary Mixers and ⅓ drum volume for Glass Batchers.

Equipment models are sized and recommended by batch volume requirements.

Mixer construction and drive requirements are determined by batch weights.

Mixing integrity is maintained with reduced batch sizes to 10 percent, for most materials.

Available rated capacities from 10 cubic foot to 300 cubic foot sizes, for batch weights up to 27,000 pounds.

Feed Spouting

Product charging into mixer is via a gravity flow type intake spout.

Spouting is of dust tight design and seals via an adjustable spring pressure external radial seal assembly.

Radial seal is of teflon/fiberglass construction.

Seal design allows for long service life and is quickly and inexpensively replaced.

Feed spouts are furnished with internal mixing drum vents.

Discharge Gate

Rotating steel reinforced urethane disc gate seals dust tight against a precision machined shoulder surface.

Gate swings open, diverting batch materials from mixing drum into a dust tight vented, discharge spout housing.

Gate employs no seals.

Standard discharge gate controls include a pneumatically actuated system.

Drive

Standard mixer drive is via a totally enclosed fan cooled motor connecting to a countershaft mounted torque arm gear reducer with heavy duty single strand roller chain drive to mixing drum sprocket.

All required totally enclosed drive guards are included.

Low horsepower requirements result from minimal eccentric shifting of product masses in the mixing drum.

Standard Glass Batcher Features

Glass Batcher design virtually duplicates Rotary Mixer, except for extra heavy duty features:

All internal product contacting surfaces are constructed of abrasion resistant materials.

Product feed and discharge spout assemblies are equipped with replaceable liner plates.

Continuous service rated drives are furnished with centrifugal clutches.

DISCHARGE GATE ASSEMBLY

Optional Features

Independently powered internal product feed and discharge conveyors, for poor flowing materials.

Internal spray assemblies, for introduction of liquid ingredients.

Independently powered product agitator assembly, for impacting ingredients.

Product sampling port.

Continuously welded and polished internal lifters.

Coated internal surfaces with vinyl, rubber or teflon materials.

Extra heavy duty pivot type discharge gate assembly, with external radial seal.

Remote, automatically actuated solenoid/pneumatic discharge gate controls.

Air/inert gas purged seal assembly.

Air tight/water tight construction.

Applications—Rotary Mixer

Insecticides/Herbicides
Fertilizers
Mineral Concentrates
Feed and Seed
Antibiotics
Pharmaceuticals
Food Products and Additives
Food Coatings
Breakfast Cereals
Spices and Gelatins
Tea and Coffee
Pet Foods
Tobacco Products
Cabosil/Talc
Vermiculite/Nicotine
Bath Oil Beads
Cleansers and Soaps
Detergents
Chemicals
Plastics and Rubber
Epoxy/Vinyl/Phenolics
Perlite/Cement
Cement/Asbestos
Aluminum Powders
Magnesium Powders
Activated Carbon
Graphite/Coal
Paints and Pigments
Chemical Slurries

Applications—Glass Batcher

Glass Batch Formulation
Toner/Ferrous Coatings
Fire Brick
Refractory Clay
Ceramics
Cement Pre-Mix
Foundry Sand

UNIQUE HEAT TRANSFER SYSTEM

Principle

Rotary Batch Mixing drums may be equipped with heat transfer jacketing, suitable for heating or cooling of batch ingredients.

Drum jackets can be used to help control exothermic/endothermic reactions during mixing and impregnating processes.

360 degree jackets envelope entire cylindrical and discharge cone sections of mixing drum.

High "product-to-heat transfer surface" exchange rate assures rapid, uniform product temperature control.

Design and Construction

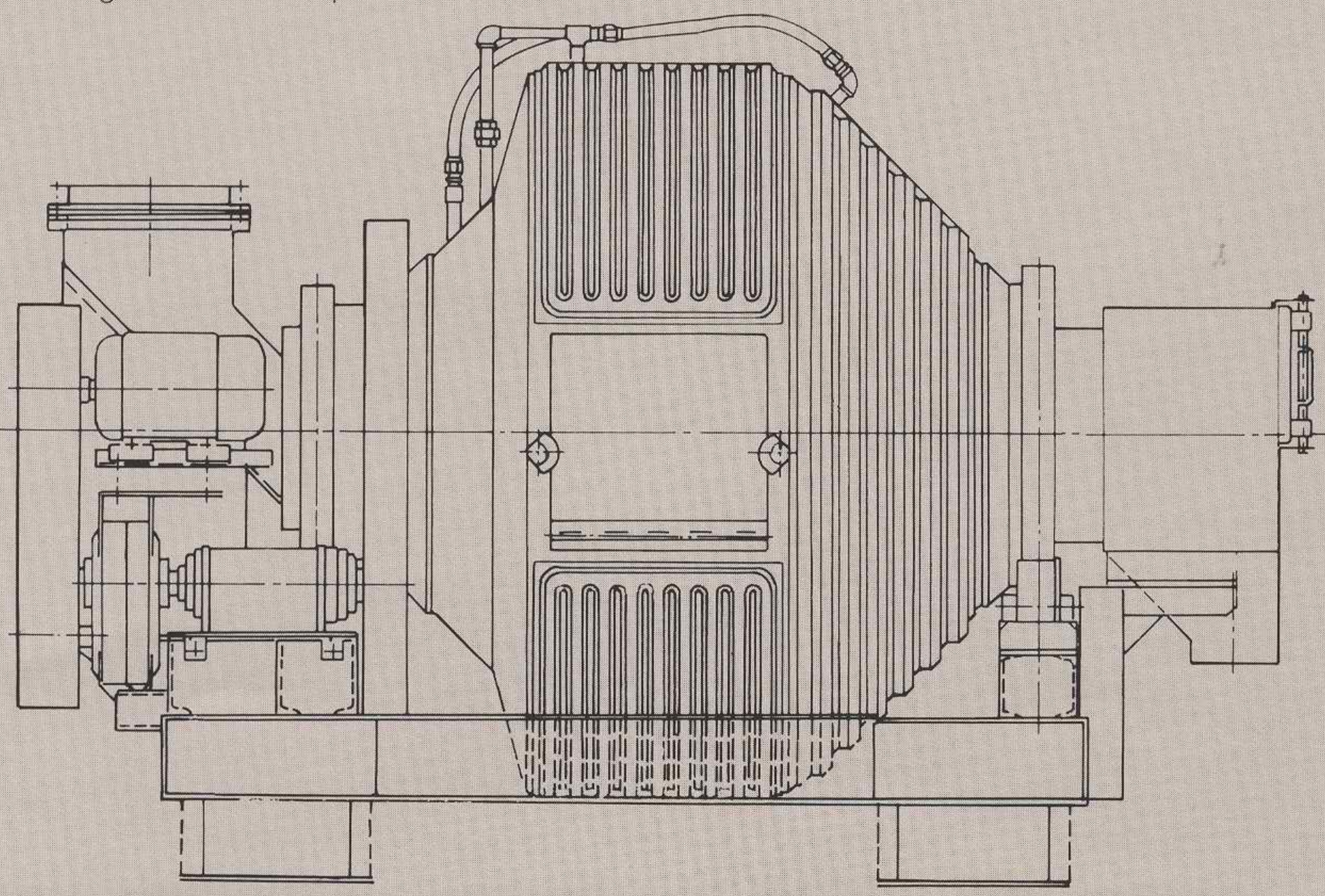
Jackets are designed to use refrigerants, hot oils, high temperature heat transfer fluids, steam or other condensing media.

Jacket arrangements are provided in parallel or series flow configurations, as dictated by application.

Available in up to 400 PSIG pressure tested ASME coded construction.

Specified materials of construction include carbon steel, types 304, 304L, 316, 316L stainless steels and Monel.

Jacketing may be furnished with thermal insulating materials as required.



	SIZE		A	B	C	D	E	F	G	H	I	J	K	L	M	N
	700	GB														
	700-40	GB-20	123	85	17	4½	63	14½	11½	102	8	13	21	73	79	73
	700-50	GB-35	136	97	18	4½	63	14½	11½	111	8	13	21	85	81	79
	700-75	GB-50	145	104	20	4½	67	14½	11½	118	8	13	25	85	92	91
	700-90		165	119	23	3	70	14½	11½	125	8	13	28	91	98	98
▶	700-90	GB-60	157	106	23	3	75	11½	11½	123	16½	18	21	91	99	98
	700-110		178	131	22	3	70	14½	11½	137	8	13	28	91	98	98
▶	700-110	GB-75	170	117	24	3	75	11½	11½	135	16½	18	21	91	99	98
	700-140		176	133	25	3	79	14½	11½	138	8	13	37	110	115½	115½
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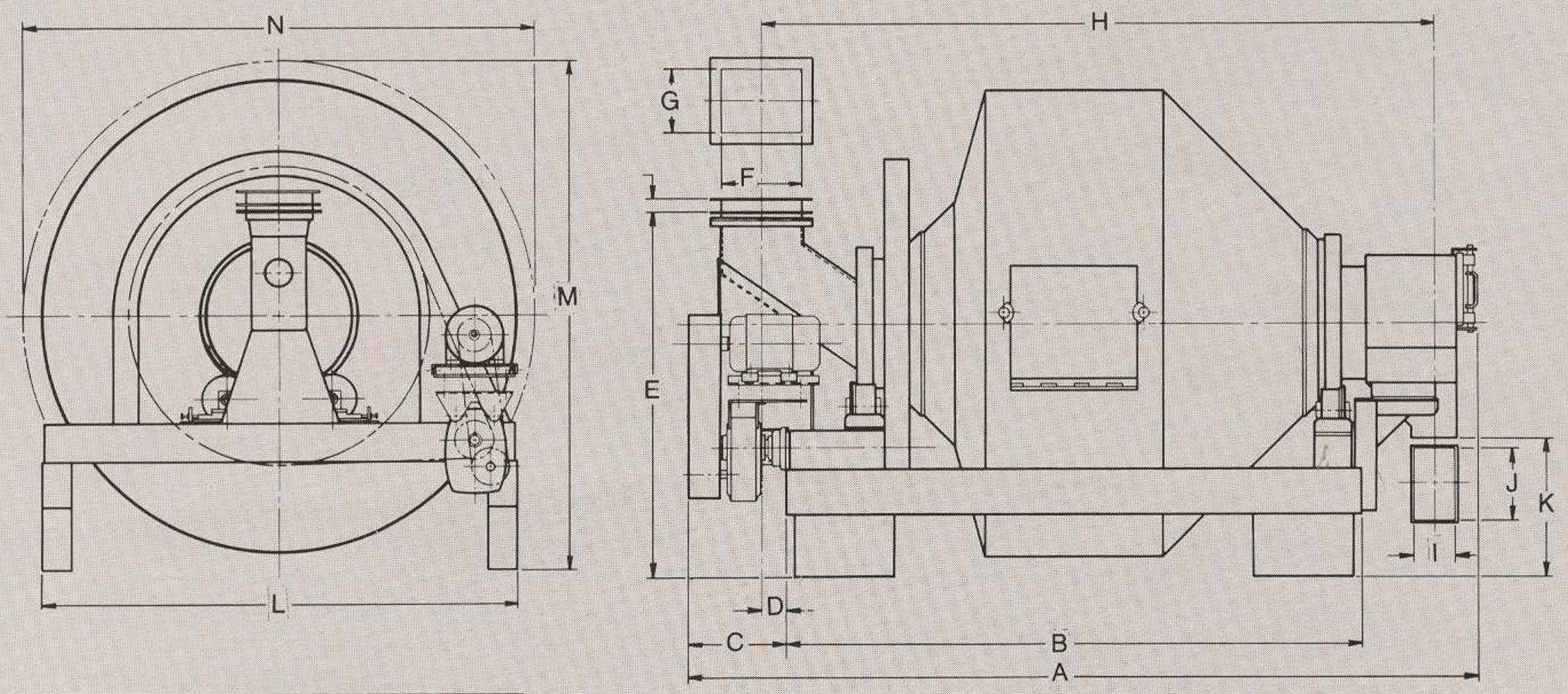
	700-180		199	149	25	3	79	14½	11½	155	8	13	37	110	115½	115½
▶	700-180	GB-120	190	135	26	3	88	12	12	153	16½	18	35	105	122	116
▶	700-300		212	157	26	2	90	12	12	174	16½	18	37	118	130	130

▶ = High capacity feed and discharge design



WARNING:

In order to clearly show details of machines, some covers, shields, doors and guards have either been removed or shown in an open position.

Be sure that all protective devices are properly installed before operating equipment.

Failure to follow this instruction may result in damage to the machine components and/or personal injury.

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