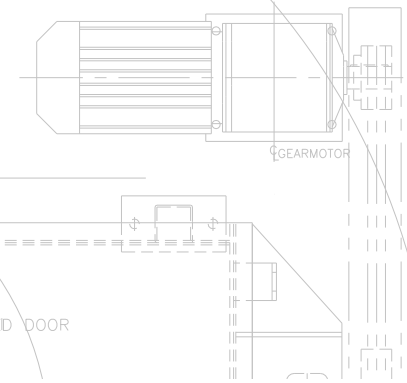
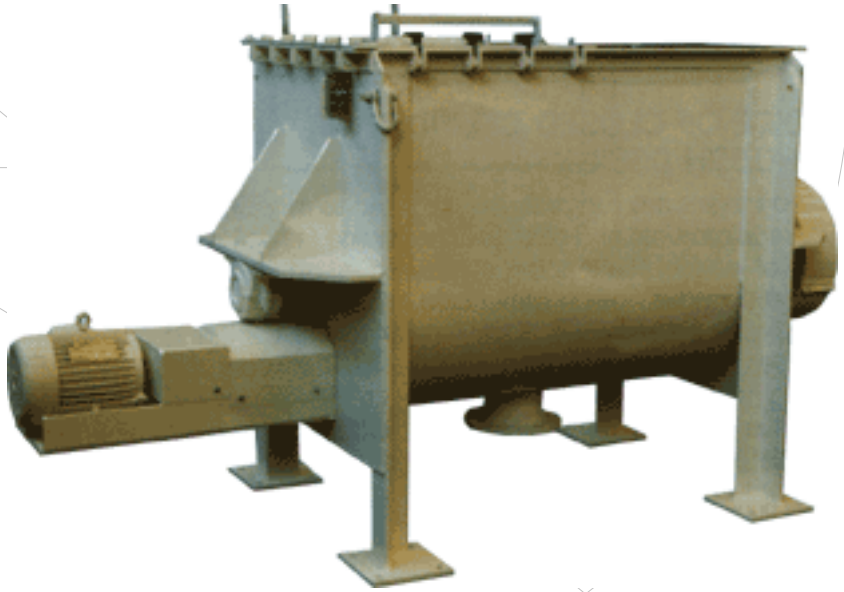
Mixers

Paddle & High Shear





Fast, thorough, accurate blending and mixing

KLAUSEN PROCESS MACHINERY PTY. LTD.

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Mixers

Paddle & High Shear

Paddle Mixers

The Klausen range of Paddle Mixers is unsurpassed for fast thorough accurate blending, heavy duty construction, long life and trouble free performance.

A unique "criss-cross" mixing action that assures accuracy and uniformity:

Curved, adjustable paddle blades combine a scooping and lifting action with a unique "criss-cross" blending pattern to assure that all material is continuously overlapped and cross-blended to obtain a completely uniform product throughout the batch. This blending action provides the turbulent upward and downward movement required to blend liquids with solids - yet is gentle enough that such delicate materials as granular chemicals or rolled grains can be mixed without destroying the flake or texture. This unique "criss-cross" action assures rapid mixing - leaves no pockets - lets you blend materials with widely varying densities - mixes micro-ingredients with large amounts of basic ingredients - and uniformly blends partial batches as easily as it does full batches.

Thorough Clean-Out and Positive Discharge:

The paddle blades are curved to conform to the contour of the mixing chamber and are installed to allow a close tolerance with the mixer shell. Since the blades are adjustable, this tolerance can be maintained throughout the life of the mixer. This close tolerance assures a thorough clean-out of the chamber and a positive discharge.

Heavy Duty, Yet Simple, Construction:

Every component of the Klausen Paddle Mixer ranged is ruggedly built for long life under hard, continuous use.

Handles a wide variety of materials:

Paddle mixers handle an almost limitless variety of materials and mixing applications. A partial list includes chemicals, drugs, glass, fertilizer, salt, sawdust, tobacco, wood and grain flours, plastic resins, chips, flakes, powders, soaps, detergents, cleaning compounds, liquids, pastes, slurries, adhesives, charcoal, prepared food mixes, dehydrated soup mixes, dog food, cereals, animal feeds, poultry feeds, spices, paint pigments, vitamins, herbicides, insecticides, gelatines, calm shells, oyster shells and peanut hull. Paddle mixers can be furnished for sanitary mixing or where batch heating and cooling is required.

A

High Shear Mixers

An entire new dimension in mixing speed, precision and versatility is yours with a Klausen Horizontal Plow Type High Shear Mixer.

Unique plow-type blades concentrically arranged on a horizontal shaft that is rotating rapidly (60 to 180 RPM) actually suspend and fluidize dry solids in free air to give quick and precise blending.

This mixing action simultaneously halves or quarters the product at the rate of about twice a second, giving you complete and total mixing with gentle intermingling of the elements.

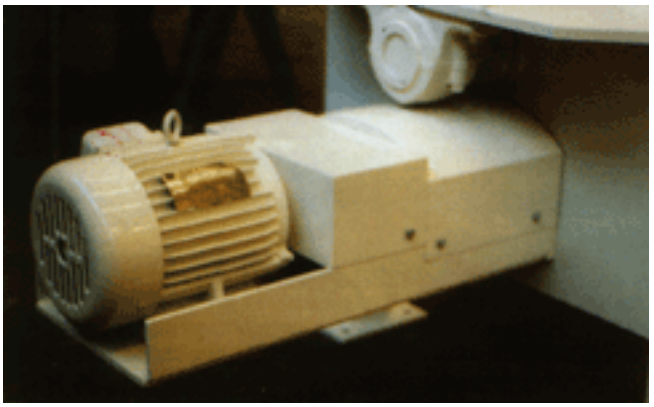
In addition to mixing, High Shear Mixers are ideal for deagglomeration, granulation, coating, dispersing, reacting and heat transfer (heating or cooling).

Choice Of Closed Cylinder Or U-Through Design

These mixers are ruggedly constructed to meet heavy duty requirements and offer you the choice of two types, both of which have their own unique advantages. Closed cylinder design minimizes product build up at the top of the mixer when tacky materials are used and provides uniform space or clearance between the mixing tools and the mixer shell. U-Trough design provides the easiest cleaning and offers the largest surface area if a heat transfer jacket is required.

Delumping Whizzer

An innovative WHIZZER may be added to your mixer. The WHIZZER can combine separate production steps, break your production bottlenecks and give your mixer entirely unthought of new capabilities to: delump, grind, finish, blend, fiberize or intensively agitate.



B

Permanent Or Detachable Mixing Arm

The horizontal mixing shaft on Paddle or High Shear Mixers can be supplied with either permanently welded and polished mixing arms or with detachable mixing arms that permit the shaft to be completely stripped clean. The permanently welded shaft requires that one end plate be of bolt-on removable construction. The removable shaft design can have both mixer end plates seal

C

Paddle & High Shear Mixer Optional Equipment

Heating and Cooling Jackets:

In applications where the material being mixed must be heated or cooled to a pre-determined temperature during the mixing process, a Klausen Paddle or High Shear Mixer can be equipped with a jacketed mixer body that permits the use of such heat transfer media as steam, thermal liquids, refrigerant, water or brine. Temperature probes that accurately record the heat within the batch are also available.

Vessels and Vessel Liners:

Special vessel configurations and materials can be furnished to match particular applications. Replaceable vessel liners are available for applications, requiring the blending of unusually abrasive materials.

Liquid Spray Manifolds:

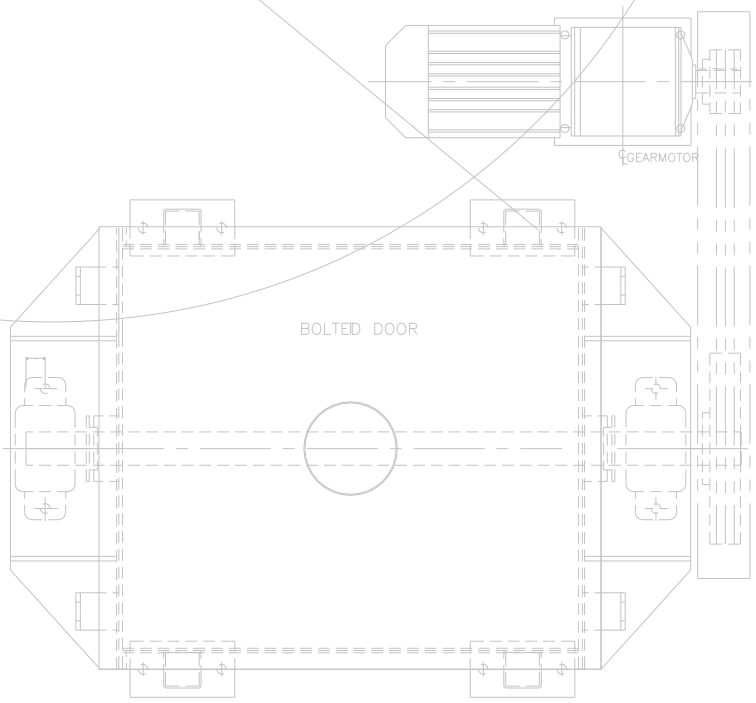
Meters and pumps can be furnished for adding oils, plasticizers, molassis, fats or chemicals.

Finishes:

Sand blasting, special paints, including epoxies, special welding and grinding, hot galvanising, polished.

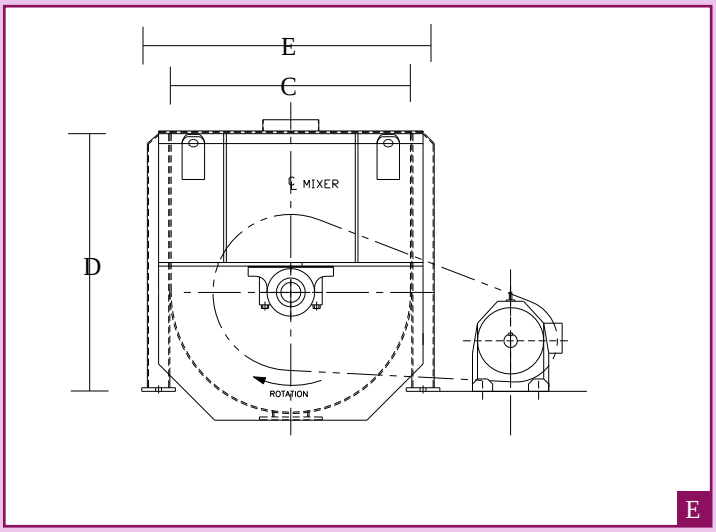
Paddle vs. Conventional Ribbon Blenders - The Choice Is Easy

- Easy thorough clean-out
- Positive discharge
- Gentle mixing action assures no damage to product
- Mixes partial batches as easily as full batches
- Savings in labour and maintenance costs
- Modular construction
- Fast, thorough blending
- Delumping capabilities
- Excellent for liquid addition



Standard Range Of Paddle Mixers

Listed below is the standard range of paddle mixers. Special models can be manufactured to sit specific application requirements



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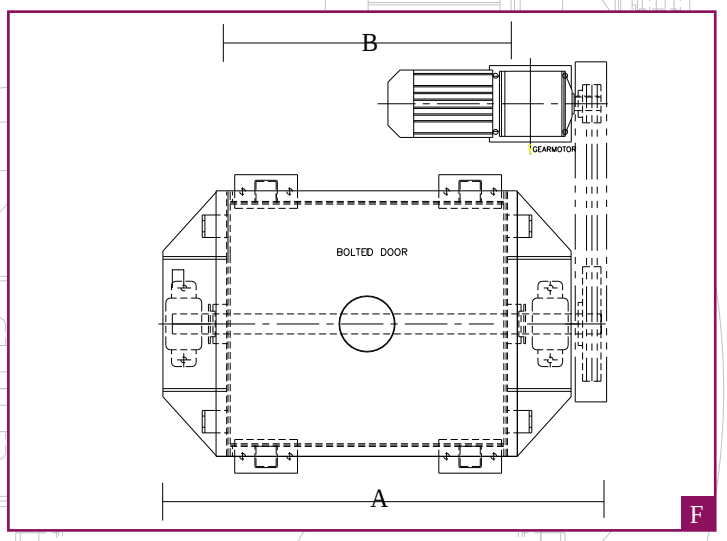
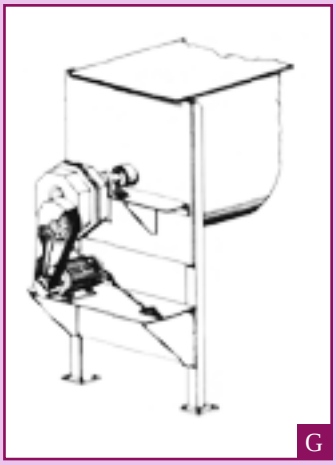


F

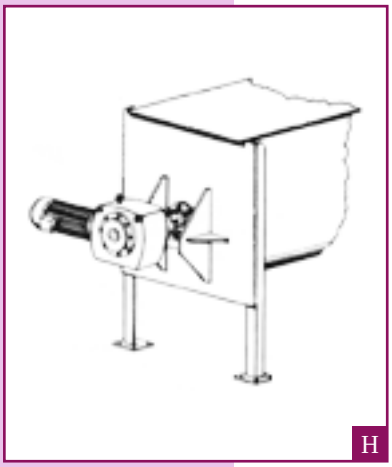
SERIES	500				700			900			1100			1200		1500	
MODEL	5030	5060	5090	50120	7060	70120	70180	90120	90180	90240	110120	110180	110240	120180	120240	15180	150240
Working Cap (ltr)	55	115	170	230	230	450	680	910	1360	1780	1190	1780	2380	2380	3170	3823	5100
Total Cap (ltr)	85	170	255	340	340	680	1020	1130	1700	2270	1590	2320	3170	3060	4080	5040	6740
Motor Range (kw)	0.7-3	1-3	1.5-4	1.5-4	1.5-4	2-7.5	4-7.5	7.5-15	11-18	11-22	7.5-15	11-22	11-22	7.5-15	11-18	22-40	22-40
Standard rpm	40	40	40	40	28	28	28	24	24	24	20	20	20	18	18	16	16
End Plate (mm)	6	6	6	6	6	6	6	10	10	12	10	10	12	12	12	12	12
Body (mm)	3	3	3	3	5	5	5	6	6	6	6	6	6	6	6	6	6
No. Paddles	2	4	6	8	2	4	6	4	6	8	4	6	8	6	8	6	8
Dimension A (mm)	780	1120	1420	1730	1220	1830	2440	1910	2520	3130	1910	2520	3130	2530	3150	2540	3160
B	305	610	915	1220	610	1220	1830	1220	1830	2440	1220	1830	2440	1830	2440	1830	2440
C	480	480	480	480	610	610	610	915	915	915	1070	1070	1070	1220	1220	1525	1525
D	635	635	635	635	950	950	950	1195	1195	1195	1345	1345	1345	1525	1525	1980	1980
E	790	790	790	790	1005	1005	1005	1345	1345	1345	1500	1500	1500	1675	1675	2135	2135

Note: All specifications and dimensions are subject to change without notice. A certified drawing must be obtained for design purposes.

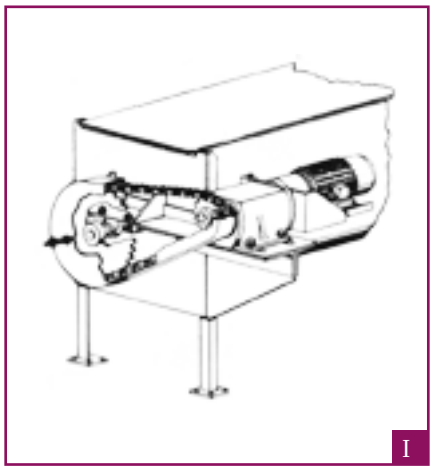
Mixer Drives



Horizontal Mixer Drive No.1
Includes motor, 3-50-415 TEFC, motor mount, motor sheave, driven sheave, V-belts, heavy duty shaft mounted gear reducer mounted on main mixer shaft and totally enclosed shield for final drive.

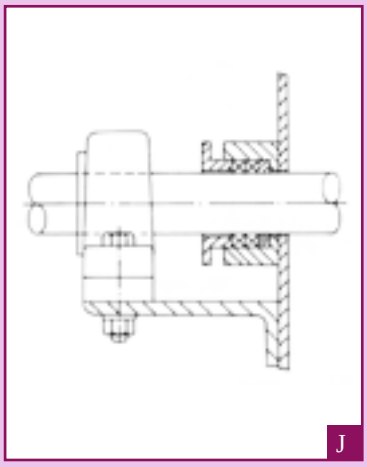


Horizontal Mixer Drive No.2
Includes right angle shaft mounted integral gear motor, 3-50-415 TEFC, mounted on main mixer shaft.

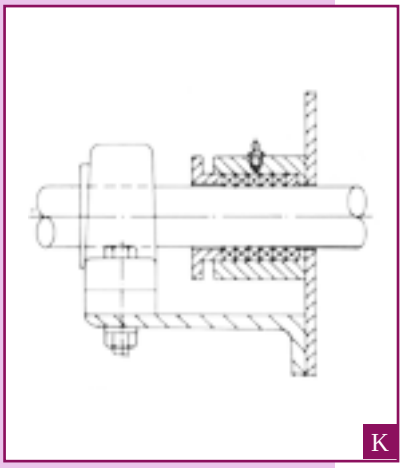


Horizontal Mixer Drive No.2
Includes foot mounted in-line gear reducer, motor, 3-50-415 TEFC, scoop motor mount, coupling for motor and reducer, take up base for gear reducer, drive sprocket, driven sprocket, roller chain, totally enclosed shield for coupling, and totally enclosed shield for final drive.

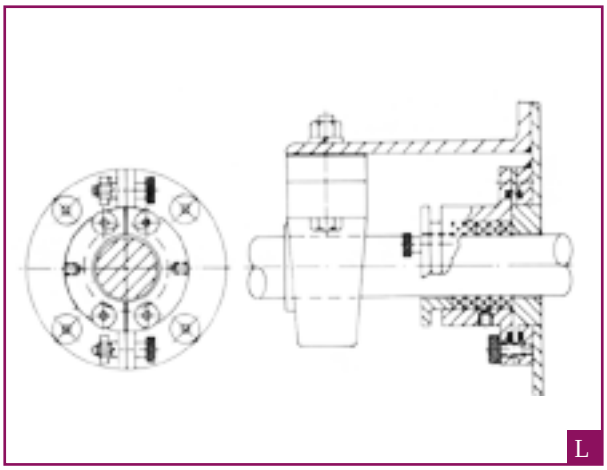
Shaft Seals



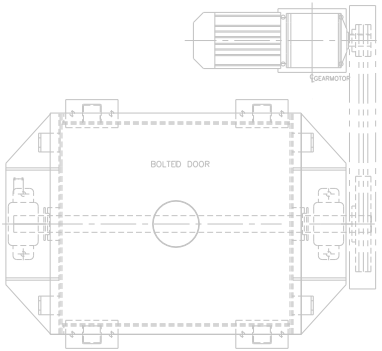
Style A
Standard mixer shaft seal. Stuffing box welded to outside of mixer end plate; replaceable close clearance ring with two rings of packing held in place with split compression plate. Suitable for most applications.



Style B
Welded stuffing box seal with optional air or lubricant purge. Close clearance ring, four rings of packing and a lantern ring, held in place with split compression plate. Air, or gas, under low pressure, can be introduced into the stuffing box to prevent material inside the mixer from working along the main shaft. Recommended for extremely fine powders, liquid or slurries.



Style C
Hand break down design permits the quick and complete removal and break down of the seal housing for rapid and complete cleaning.



Optional Seals
Seal housings of plated carbon steel or stainless steel materials are available as an option as are entirely bolted seal housings. Consult factory for further information.

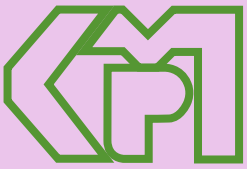
Paddle & High Shear Mixer Optional Equipment

Discharge Valves

Type1: Contoured knife edge slide gate, rack and pinion or air operated action, hand wheel or chain wheel. Contoured knife edge slide gates are built to fit the curve of mixer body and to offer "pocket free" discharging. Operates parallel to long axis of mixer. Available in 100mm to 450mm sizes. Suitable for most materials. Not for use with liquids or extremely fine powders.

Type2: Knife valve, packed slide, for especially difficult to handle mixtures of fine powders, slurries and liquids; hand wheel, lever or air cylinder action.

Type3: Tangent mounted slide gate. Mounts on the side of the mixer body and operates perpendicular to the long axis of the mixer. Available on 100mm to 450mm sizes as a general purpose gate; manual, lever, rack and pinion or air cylinder action available.



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