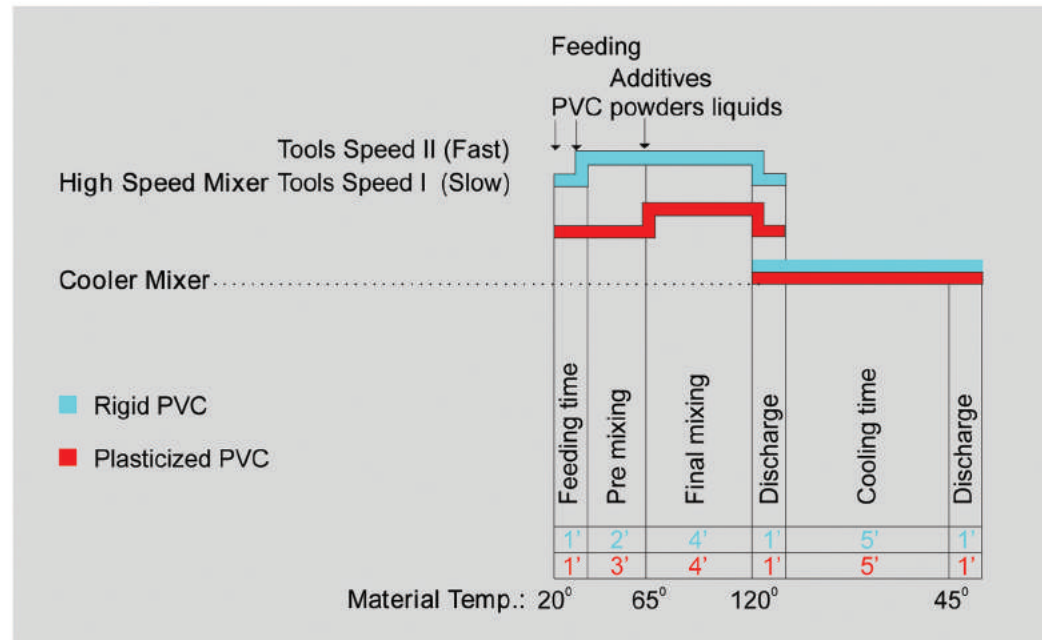




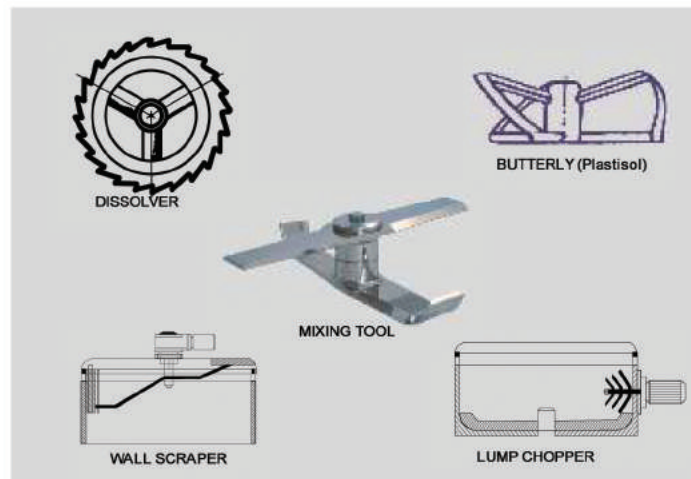
Your partner in mixing Since 1959

MIXING PROGRAMME FOR PROCESSING



Note: The above mentioned data is based on apparent of 0.5 kg/ltr. Inclusive of additives and final temperature 120° C of High Speed Mixer and 45° C of Cooling Mixer.

MIXING TOOLS & ACCESSORIES



JOGINDRA ENGINEERING WORKS (P) LTD.
An ISO 9001-2008 Certified Company

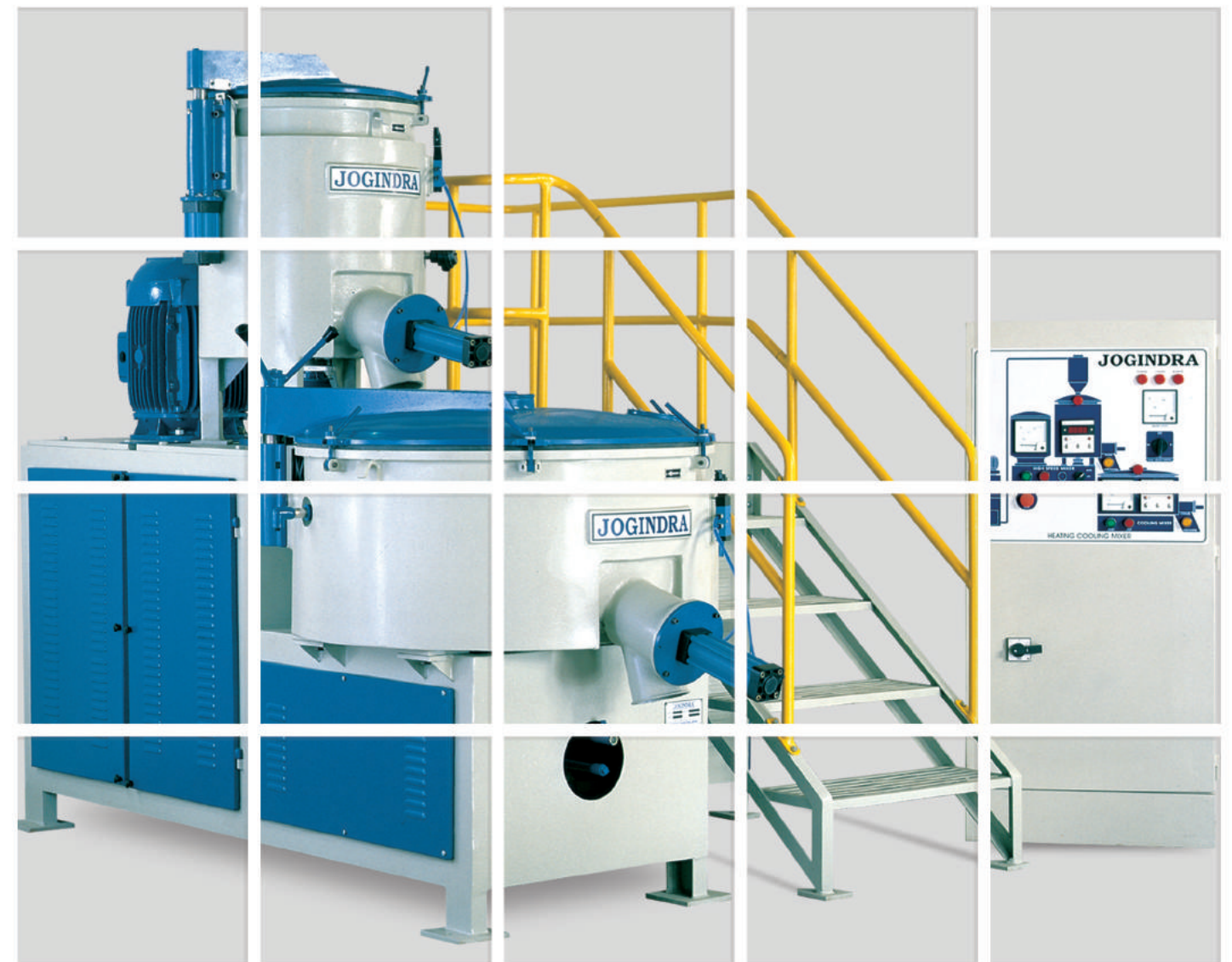


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Tel. : 0124 400 7660, 4110 119, 4111 019, 4013 047
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e-mail : info@jogindra.com

#16-260/ PVC

MIXERS | PLANTS | SYSTEMS



A TRUSTED NAME WORLDWIDE FOR QUALITY

JOGINDRA

Serving Plastic Industry since 1959.

Corporate Vision

Jogindra will continue to maintain strong family tradition. Since its inception, Jogindra has been appreciating the inherent dynamics of change and maintained a tradition of pioneering innovation with the aim of actively contributing to society.

We are always looking towards the future, introducing new product concepts that anticipate business, industry and consumer needs following the dictum -

"The ability to dream. The will to do."



About the Company

- An ISO 9001:2008 certified company and complying with the CE standards.
- Leading manufacturer of machineries for plastic processing, paint and wood plastic composite industry
- Highly sophisticated manufacturing facility and managed by highly qualified technical people.
- Use of quality raw materials to deliver quality products and we can proudly say- **'A TRUSTED NAME WORLDWIDE FOR QUALITY'**.
- Our continuous R & D, strict quality control has resulted in the development and production of new generation machines.
- Associated with prestigious trade organizations such as AIPMA, IPF, OPPI, Indo German Chamber of Commerce, SPI, USA, FICCI & EEPC and more.
- Almost 90% of plastic processing industry as of today is being served by JOGINDRA.
- Delivering our best to our customers for more than four decades.

[Our Moto is satisfaction of our customers.]



Global Network of Clients

JOGINDRA is proud to be associated in developing and advancement of plastic industry. Almost 90% of all plastic processing industry uses our machines. Apart from a strong domestic market, we export around 40% of our production to Europe, U.S.A, Middle East, Africa, and South East Asia. So far, more than 6000 installations in various applications are running satisfactorily in India & Overseas.

Magnificent Progress Since 1959

JOGINDRA is a leading manufacturer of a wide range of Mixing Plants namely Heating Cooling Mixers, High Speed Mixers, Container Mixers, Ribbon Blenders as well as Batching Plants including Bulk Handling for compounding of Dry Blends, for Rigid/Plasticized PVC Thermoplastic ABS, PE, PP, EVA, Ceramics, Pharmaceuticals, Chemicals, Dyes, Food Stuffs & Red Mud processing Plant & Machinery etc. The Company also manufactures Scrap Granulators, Single Shaft Shredders, Four Shaft Shredders, Deflashers, Sand and Shot Blasting Machine etc.



HEATING COOLING MIXER- VERTICAL



COOLING MIXER



SCRAP GRINDER



FOUR SHAFT SHREDDER



HEATING COOLING MIXER- HORIZONTAL



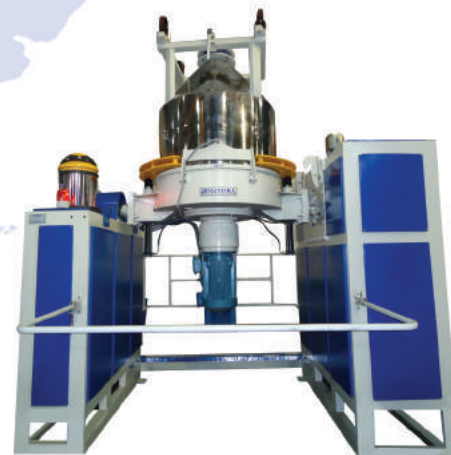
HIGH SPEED MIXER



PULVERIZER



LAB MIXER



CONTAINER MIXER



RIBBON BLENDER



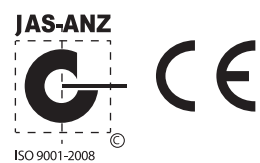
CONVEYING SYSTEMS



SINGLE SHAFT SHREDDER

Jogindra Advantages:

- High Productivity
- Long life and durability
- Low maintenance, trouble free service
- Labour and Energy saving





HEATING COOLING MIXER- VERTICAL (JHC Series)

Jogindra Heating Cooling Mixers (Vertical), are the most efficient and best in performance. With proven track record for efficiency they are highly acclaimed in the Plastic Industry. It is a combination of High Speed Mixer and Cooling. Material is heated in the High Speed Mixer using frictional heat and then transferred to Cooling Mixer in order to keep the mixed compound in free-flowing condition to make it suitable for storage, transport and subsequent processing.

Applications:

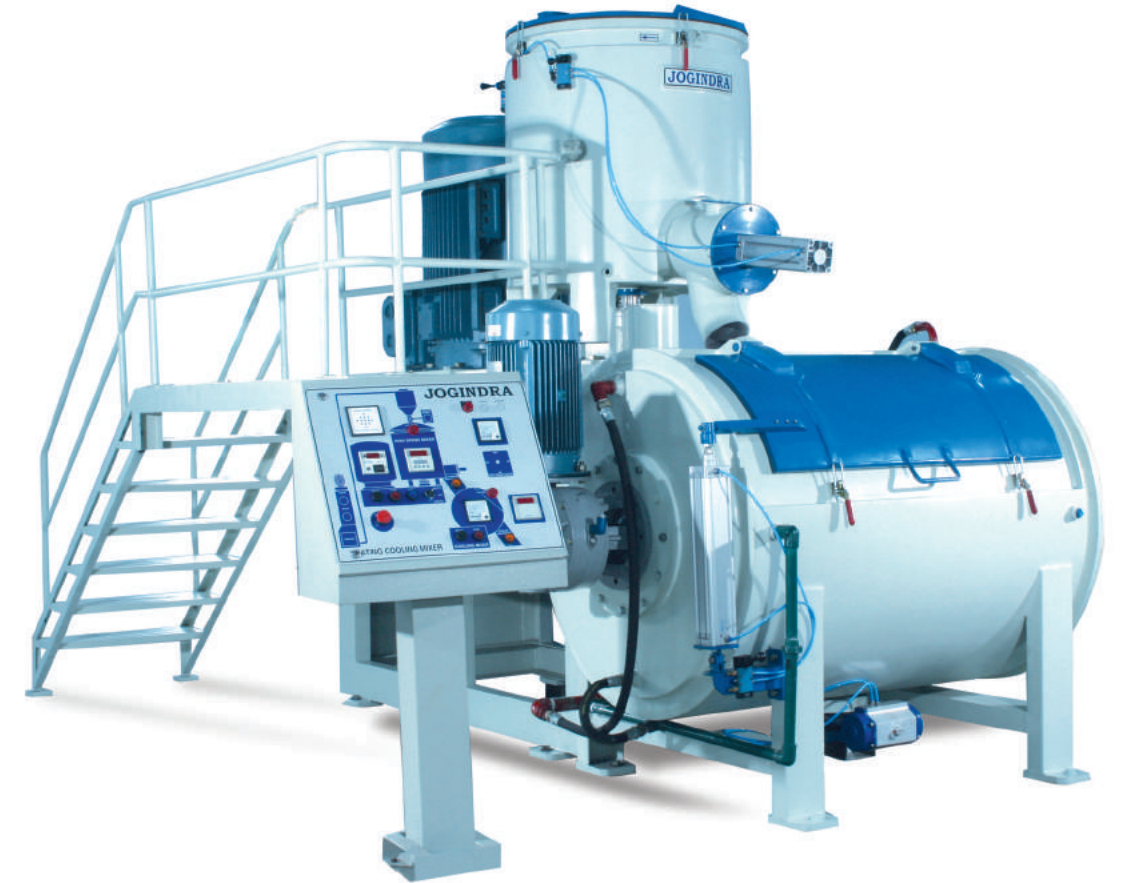
Used in the processing of Dry Blend in the area of Rigid and Plasticized PVC, Thermoplastic ABS, PE, PP for drying, Blending and Wet Coating, Ceramics, Dyes and Colours, Pharmaceuticals and other allied industries.

MODEL	BATCH CAPACITY KGS.	VESSEL CAPACITY (LTRS.)		DRIVE (KW)		NO. OF BATCHES PER HOUR	MIXING TIME (MIN.)	MIXING TOOL SPEED R.P.M.			MAX. PRESSURE IN DOUBLE JACKET (BAR)		AIR SYSTEM OPERATING AT BAR
		HIGH SPEED MIXER	COOLING MIXER	HIGH SPEED MIXER	COOLING MIXER			HIGH SPEED	COOLING				
										SINGLE SPEED	SINGLE SPEED		
		SINGLE SPEED	VARIABLE SPEED	SINGLE SPEED	HIGH SPEED			COOLING					
JHC-150	40-55	150	350	18.5	5.5	4-6	6-9	900	550-1100	120	2.5	1.0	4-5
JHC-150 P	40-55	150	350	22	5.5	4-5	8-12	900	550-1000	120	2.5	1.0	4-5
JHC-200	65-80	200	450	30	7.5	4-6	6-9	850	500-1000	110	2.5	1.0	4-5
JHC-200 P	65-80	200	450	37.5	7.5	4-5	8-12	850	500-1000	110	2.5	1.0	4-5
JHC-250	90-100	250	650	45	11	4-6	6-9	840	450-900	110	2.5	1.0	4-5
JHC-250 P	90-100	250	650	55	11	4-5	8-12	840	420-840	110	2.5	1.0	4-5
JHC-350	120-150	350	1100	55	15	4-6	6-9	700	360-720	96	2.5	1.0	4-5
JHC-350 P	120-150	350	1100	75	15	4-5	8-12	700	360-720	96	2.5	1.0	4-5
JHC-500	160-200	500	1250	90	18.5	4-6	6-9	550	300-600	96	2.5	1.0	4-5
JHC-500 P	160-200	500	1250	110	18.5	4-5	8-12	550	300-600	96	2.5	1.0	4-5
JHC-750	280-300	750	1550	132	18.5	4-6	8-12	500	260-520	96	2.5	1.0	4-5
JHC-1000	400-430	1000	2100	180	22	4-6	8-12	500	260-520	96	2.5	1.0	4-5
JHC-1200	450-500	1200	3000	250	30	4-6	8-12	500	260-520	57	2.5	1.0	4-5
JHC-1500	500-600	1500	3500	300	45	4-6	8-12	500	260-520	57	2.5	1.0	4-5
JHC-2000	800-850	2000	5000	450	55	4-6	8-12	500	260-520	57	2.5	1.0	4-5

JHC Suitable for Rigid PVC formulation JHC-P Suitable for Plasticized formulation

- The mix weights are valid for PVC formulae with an apparent density of 0.5 kg/ltr inclusive of additives and final temperature of 120° C of Heating Mixer and 45° C for Cooling Mixer and for Plasticized PVC with a percentage of Plasticizers not greater than 40 p.h.r.
- Direct Current motors, frequency variators or soft-start can be fitted to all models on request.

* We reserve the right to change specifications without prior notice.



HEATING COOLING MIXER- HORIZONTAL (JHCH Series)

Jogindra Heating Cooling Mixers (Horizontal) are combination of High Speed Mixer and Cooling Mixer in Horizontal construction.

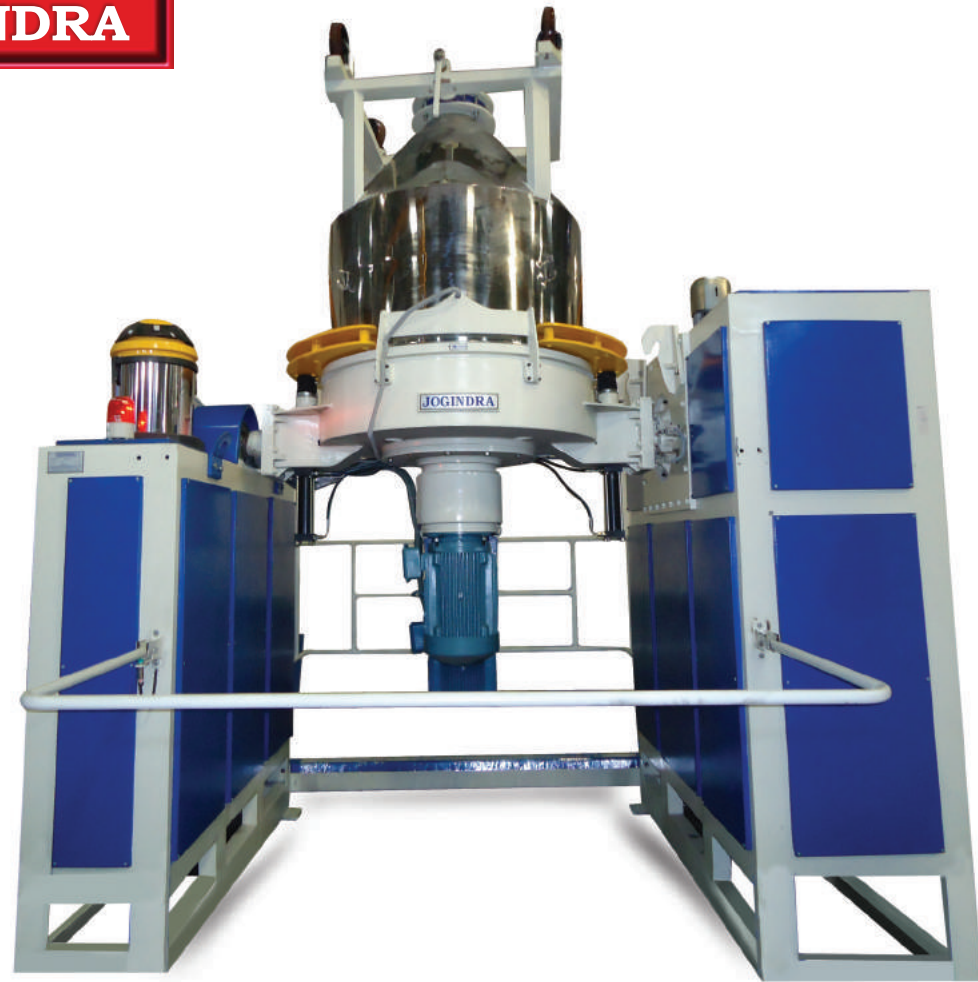
The material in High Speed Mixer is heated using frictional heat and subsequently the heated compound is transferred to Horizontal Cooling Mixer which cool the material faster by special designed cooling blade, a combination of radial and axle design, allowing an increase in the number of batches per hour. This process reduces water consumption for cooling and need lesser maintenance. These mixers can be fitted to any type of mixer as per customer's requirements.

MODEL	BATCH CAPACITY KGS.	VESSEL CAPACITY (LTRS.)		DRIVE (KW)		NO. OF BATCHES PER HOUR	MIXING TIME (MIN.)	MIXING TOOL SPEED R.P.M.			MAX. PRESSURE IN DOUBLE JACKET (BAR)		AIR SYSTEM OPERATING AT BAR
		HIGH SPEED MIXER	COOLING MIXER	HIGH SPEED MIXER	COOLING MIXER			HIGH SPEED	COOLING				
										SINGLE SPEED	SINGLE SPEED		
		SINGLE SPEED	VARIABLE SPEED	SINGLE SPEED	HIGH SPEED			COOLING					
JHCH-150	40-55	150	450	18.5	5.5	4-6	6-9	900	550-1000	96	2.5	1.0	4-5
JHCH-150 P	40-55	150	450	22	5.5	4-6	8-12	900	550-1000	96	2.5	1.0	4-5
JHCH-200	65-80	200	450	30	7.5	4-6	6-9	850	550-1000	96	2.5	1.0	4-5
JHCH-200 P	65-80	200	450	37.5	7.5	4-6	8-12	850	550-1000	96	2.5	1.0	4-5
JHCH-250	90-100	250	650	45	11	4-6	6-9	840	450-900	96	2.5	1.0	4-5
JHCH-250 P	90-100	250	650	55	11	4-5	8-12	840	420-840	96	2.5	1.0	4-5
JHCH-350	120-150	350	1100	55	15	4-6	6-9	700	360-720	96	2.5	1.0	4-5
JHCH-350 P	120-150	350	1100	75	15	4-5	8-12	700	360-720	96	2.5	1.0	4-5
JHCH-500	160-200	500	1550	90	18.5	4-6	6-9	550	300-600	72	2.5	1.0	4-5
JHCH-500 P	160-200	500	1550	110	18.5	4-5	8-12	550	300-600	72	2.5	1.0	4-5
JHCH-750	280-300	750	2100	132	18.5	4-6	8-12	500	260-520	72	2.5	1.0	4-5
JHCH-1000	400-430	1000	3000	180	22	4-6	8-12	500	260-520	57	2.5	1.0	4-5
JHCH-1200	450-500	1200	3500	250	30	4-6	8-12	500	260-520	57	2.5	1.0	4-5
JHCH-1500	500-600	1500	4500	355	45	4-6	8-12	500	260-520	57	2.5	1.0	4-5
JHCH-2000	800-850	2000	6000	450	55	4-6	8-12	500	260-520	57	2.5	1.0	4-5
JHCH-2500	900-1000	2500	7500	500	75	4-6	8-12	500	260-520	57	2.5	1.0	4-5

JHCH Suitable for Rigid PVC formulation JHCH-P Suitable for Plasticized formulation

- The mix weights are valid for PVC formulae with an apparent density of 0.5 kg/ltr inclusive of additives and final temperature of 120° C of Heating Mixer and 45° C for Cooling Mixer and for Plasticized PVC with a percentage of Plasticizers not greater than 40 p.h.r.
- Direct Current motors, frequency variators or soft-start can be fitted to all models on request.

* We reserve the right to change specifications without prior notice.



CONTAINER MIXER (JCM Series)

Jogindra Container Mixers are specially designed for cold mixing process for all polymer powders and granules with colorants or additives for concentrated Masterbatches. The mixer works in two parts i.e. Mixer and Storage Hopper.

Initially the mixing head is positioned facing to the ground to facilitate clamping of container and then can be rotated 180 degree for mixing. The mixing bowl is made of stainless steel with lock and gasket to prevent leakage during operation.

With lesser cleaning time and higher efficiency these mixers ensure gentle product treatment and lesser mixing time.

PLC can be supplied on request.

FIELD OF APPLICATION

- Ideal for mixing of powdery/grained materials for dispersing and coating
- Pigments
- Powder Coating
- Polymer Powder Mixing

OPERATIONAL ACCESSORIES

- Container Trolley
- PLC Program Control
- Water Cooled Mixing/Dispersion Tool
- Frequency Inverter for continuous Rotational speed
- Nitrogen Injection
- Automatic Feeding Station
- Exhaust System

MODEL	VESSEL CAPACITY LTR.	USEFUL CAPACITY LTR.	BATCH KG.	DRIVE KW		TILTING KW
				TOP	BOTTOM	
JCM-75	75	63	30	2.25	3.75	1.1
JCM-150	150	127	64	3.75	7.5	1.1
JCM-250	250	212	106	5.5	9.3	2.2
JCM-350	350	297	148	7.5	11.25	2.2
JCM-500	500	425	212	11.25	15	2.2
JCM-1000	1000	850	425	15	18.5	3.75
JCM-1500	1500	1275	637	18.5	30	3.75

The above capacities are based on 0.5 kg/ltr. bulk density.

* We reserve the right to change specifications without prior notice.



CONTAINER MIXER (JCMH Series)

Jogindra Container Mixers are specially designed for hot mixing process for all polymer powders and granules with colorants or additives for concentrated Masterbatches. The mixer works in two parts i.e. Mixer and Storage Hopper.

Initially the mixing head is positioned facing to the ground to facilitate clamping of container and then can be rotated 180 degree for mixing. The mixing bowl is made of stainless steel with lock and gasket to prevent leakage during operation.

With lesser cleaning time and higher efficiency these mixers ensure gentle product treatment and lesser mixing time.

PLC can be supplied on request.

FIELD OF APPLICATION

- Ideal for mixing of powdery/grained materials for dispersing, moistening, coating and hot mixing
- Masterbatch
- PVC, PE and PP Compounds
- Powder Coating
- Polymer Powder Mixing
- Pigments

OPERATIONAL ACCESSORIES

- Container Trolley
- PLC Program Control
- Water Cooled Mixing/Dispersion Tool
- Frequency Inverter for continuous Rotational speed
- Nitrogen Injection
- Automatic Feeding Station
- Exhaust System

MODEL	VESSEL CAPACITY LTR.	USEFUL CAPACITY LTR.	BATCH KG.	DRIVE KW	TILTING KW
JCMH-75	75	50	25	11.25	1.1
JCMH-150	150	105	50	18.50	1.1
JCMH-250	250	175	90	45	2.2
JCMH-350	350	250	120	55	2.2
JCMH-500	500	350	170	90	2.2
JCMH-1000	1000	700	350	180	3.75
JCMH-1500	1500	1050	530	300	3.75

The above capacities are based on 0.5 kg/ltr. bulk density.

* We reserve the right to change specifications without prior notice.

HIGH SPEED MIXER (JJH Series)

Jogindra High Speed Mixers have the unique distinction of being the best in performance. The mixers are jacketed for extra heating or cooling by means of heat transfer oil, steam or water as required and the mixing container is made of stainless steel and has a superior industrial mirror finish interior. By utilizing frictional heat the material may be sintered, agglomerated, dry vented, slightly gelled or hot coloured.

Applications:

Plastic (Rigid, Plasticized PVC Dry Blends), Ceramics, Chemicals, Dyes and Colours, Food Stuffs, Pharmaceuticals etc.



MODEL	BATCH CAPACITY KGS.	VESSEL CAPACITY (LTRS.)	DRIVE (K.W.)		MIXING TIME MINUTES	MIXING TOOL SPEED R.P.M.		MAXIMUM PRESSURE IN DOUBLE JACKET (BAR)	AIR SYSTEM OPERATING AT (BAR)
			SINGLE SPEED	NO. OF BATCHES PER HR.		SINGLE SPEED	VARIABLE SPEED		
JJH-150	40-55	150	18.5	4-6	6-9	900	550-1100	2.5	4-5
JJH-150 P	40-55	150	22	4-5	8-12	900	500-1000	2.5	4-5
JJH-200	65-85	200	30	4-6	6-9	850	500-1000	2.5	4-5
JJH-200 P	65-80	200	37.5	4-5	8-12	850	500-1000	2.5	4-5
JJH-250	90-100	250	45	4-6	6-9	840	450-900	2.5	4-5
JJH-250 P	90-100	250	55	4-5	8-12	840	420-840	2.5	4-5
JJH-350	120-150	350	55	4-6	6-9	700	360-720	2.5	4-5
JJH-350 P	120-150	350	75	4-5	8-12	700	360-720	2.5	4-5
JJH-500	160-200	500	90	4-6	6-9	550	300-600	2.5	4-5
JJH-500 P	160-200	500	110	4-5	8-12	550	300-600	2.5	4-5
JJH-750	280-300	750	132	4-6	8-12	500	260-520	2.5	4-5
JJH-1000	400-430	1000	180	4-6	8-12	500	260-520	2.5	4-5
JJH-1200	450-500	1200	250	4-6	8-12	500	260-520	2.5	4-5
JJH-1500	500-600	1500	300	4-6	8-12	500	260-520	2.5	4-5
JJH-2000	800-850	2000	450	4-6	8-12	500	260-520	2.5	4-5
JJH-2500	900-1000	2500	500	4-6	8-12	500	260-520	2.5	4-5

JJH Suitable for Rigid PVC formulation JJH-P Suitable for Plasticized formulation

- The mix weights are valid for PVC formulae with an apparent density of 0.5 kg/ltr inclusive of additives and final temperature of 120° C of Heating Mixer for Plasticized PVC with a percentage of Plasticizers not greater than 40 p.h.r.
- Direct Current motors, frequency variators or soft-start can be fitted to all models on request.

* We reserve the right to change specifications without prior notice.

COOLING MIXER

Horizontal (JCH Series)

Jogindra Horizontal Cooling Mixers are suitable for quick cooling of directly transferred Dry Blends from High Speed Mixer. The material gets cooled faster as a result of large size vessel and specially designed cooling blade, combination of radial and axle design, allowing an increased number of batches per hour. This is economical with lower water consumption and low maintenance. These Horizontal Construction Cooling Mixers can be fitted to any type of mixed in accordance with customer's requirements.



MODEL		BATCH CAPACITY KGS.	VESSEL CAPACITY (LTRS.)		DRIVE KW.	COOLING TIME (MINUTES)	TOOL SPEED R.P.M.		MAX PRESSURE IN DOUBLE JACKET (KG/CM ²)	AIR SYSTEM OPERATING AT BAR	COOLING WATER REQUIRED AT 1KG/CM ² (M ³ /HR)	INLET TEMP OF WATER °C
VERTICAL	HORIZONTAL		JJC	JCH			JJC	JCH				
JJC-350	JCH-450	65-80	350	450	5.5	3-5	120	96	1	4-5	2.0	15-20
JJC-450	JCH-650	90-100	450	650	7.5	3-5	110	96	1	4-5	2.5	15-20
JJC-650	JCH-1100	120-140	650	1100	11	3-5	110	96	1	4-5	3.2	15-20
JJC-1100	JCH-1550	200-240	1100	1550	15	3-5	96	72	1	4-5	5.0	15-20
JJC-1250	JCH-2100	330-350	1250	2100	18.5	3-5	96	72	1	4-5	5.8-	15-20
JJC-2100	JCH-3000	400-450	2100	3000	22	3-5	96	57	1	4-5	6.4	15-20

The above mentioned capacities are based on final temperature 45° C
* We reserve the right to change specifications without prior notice.



Vertical (JJC Series)

Jogindra Vertical Cooling Mixers are suitable for quick cooling of directly transferred Dry Blends from High Speed Mixer. The cooling rate is high due to the special designed cooling coil and stirring blade. The cooling coil and stirring unit in the vessel are detachable for easier cleaning and non-routine maintenance. All the internal parts in contact with the product are in stainless steel. The cooling mixer can be connected to every type of High Speed Mixer to meet customer's requirements



BULK HANDLING & BATCHING PLANTS

Jogindra offers complete PLC Batching Plants including Storage, Conveying, Weighing, Mixing etc. for continuous processing in the mixer. In this system, the PVC and other materials can directly be transferred from bulk Silo or jumbo bag station to weighing hopper for conveying to feeding hopper fixed on top of High Speed Mixer.



**CONVEYING SYSTEMS
(JCS Series)**

BATCH CONVEYING SYSTEMS

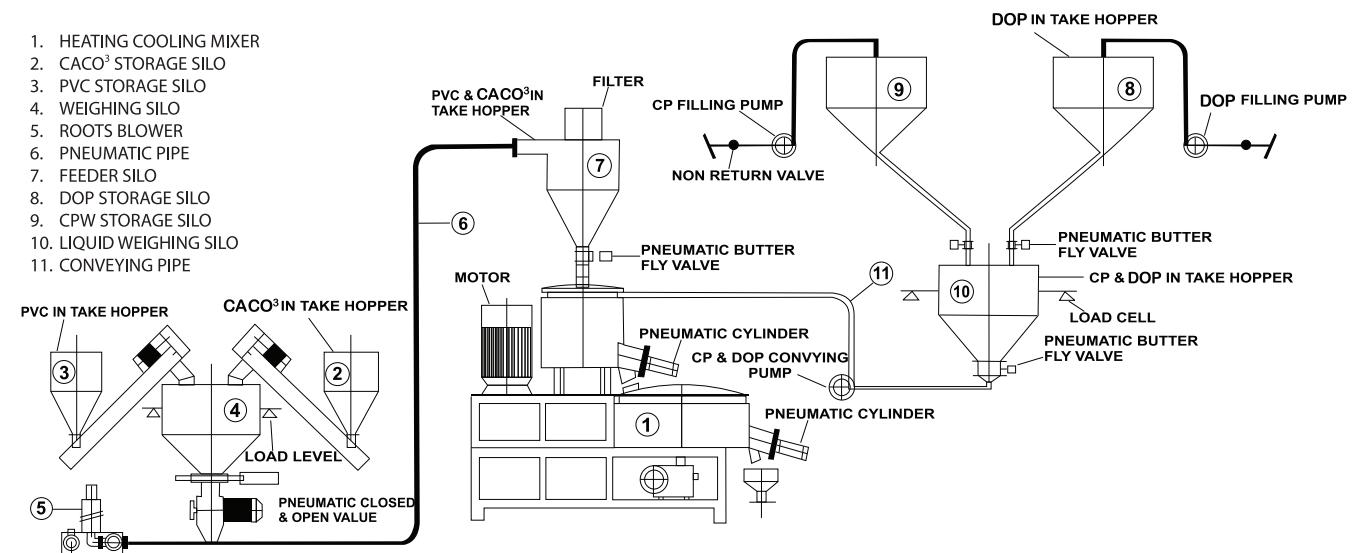
Use of the Batch Conveying Systems is recommended in case of continuous compounding for small to medium volume production, thereby minimizing production cost. Pre-weighed material is fed into a bag emptying station and is conveyed by a roots blower via rotary airlock and pipeline to the feeding hopper (fixed at top of High Speed Mixer) ready for next batch.

PLC can be supplied on request.

MODEL	SUITABLE FOR	MAX. CAPACITY (LTRS.)	CONVEYING TIME (MINUTES)	DRIVE KW.	HOPPER DIA (MM)	MAX. CONVEYING DISTANCE (MTRS.)
JCS-255	JHC-125	250	3-4	7.5	600	30
JCS-410	JHC-175 JHC-250	410	3-4	11	700	30
JCS-920	JHC-350 JHC-500	920	3-4	5	900	30
JCS-1560	JHC-750 JHC-1000	1560	3-4	22.5	1100	30

The above mentioned capacities are for PVC and along with CaCo³ at maximum conveying height 5 mtr.

* We reserve the right to change specifications without prior notice.



Liquid Dosing & Metering systems, Degassing/Vacuum arrangement, closed circuit oil heating system & P.L.C. can also be supplied on request.



MODEL	VESSEL CAPACITY (LTRS.)	BATCH CAPACITY KGS.	DRIVE KW.
JJR-150	150	50	2.2
JJR-250	250	100	2.2
JJR-350	350	150	3.75
JJR-500	500	200	5.5
JJR-700	700	300	7.5
JJR-900	900	400	11.2
JJR-1200	1200	500	15
JJR-1700	1700	700	8.75
JJR-2500	2500	1000	22

The above mentioned capacities are based on 0.5 kg/ltr bulk density.
* We reserve the right to change specifications without prior notice.

RIBBON BLENDER (JJR Series)

Jogindra Ribbon Blenders are suitable for PVC Dry Blend. It is specially designed for those compounds which require higher ratio of plasticization, compounds that are used in Footwear, Pipes, Cables etc. The blender construction is 'U' type made of stainless steel and jacketed by mild steel. The mixing material get heated through special grade heating oil with the help of oil heaters provided at lower part of the blender. The homogeneous mixing is done by specially designed Ribbon Type mixing tool to provide radial and axle operating at low speed. The mixed material can be directly transferred to cooling mixer for further processing.



LAB MIXER

MODEL	VESSEL CAPACITY (LTRS.)	BATCH CAPACITY KGS.	DRIVE KW.
JJH-010	10	2-5	2.23
JJH-020	20	5-10	3.7

The above mentioned capacities are based on 0.5 kg/ltr bulk density.
* We reserve the right to change specifications without prior notice.

JOGINDRA CERTIFIED ADD ONS

Jogindra offers a wide range of Certified Add-Ons; such as Scrap Grinder, Pulverizer, Single Shaft Shredders and Four Shaft Shredders which are suitable for recycling and volume reduction of plastic and various other products such as paper, wood, municipal solid waste, industrial and hospital waste and electronics waste etc.

Other Add-Ons: such as AC Drive, PLC Control, Discharge Station (Container Mixer), Trolley (Container Mixer), Spiral Loader can be supplied with machines on request.



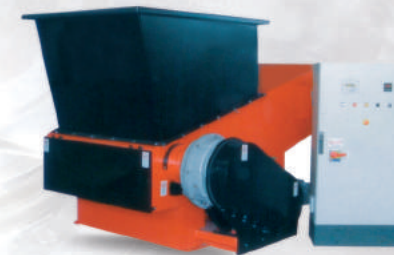
PULVERIZER



SCRAP GRINDER



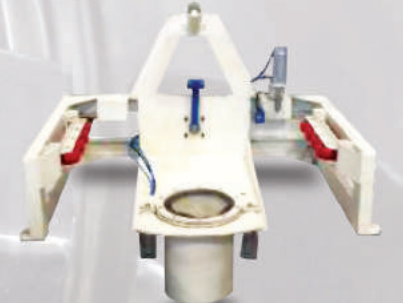
FOUR SHAFT SHREDDER



SINGLE SHAFT SHREDDER



HOPPER LOADER



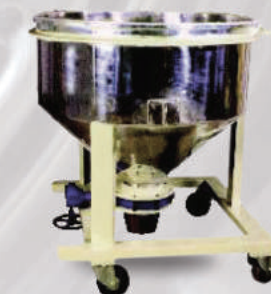
DISCHARGE STATION (CONTAINER MIXER)



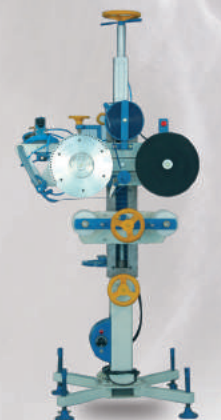
PLC CONTROL



A.C. DRIVE



TROLLEY



HOT EMOSS ON LINE PRINTING MACHINE