



ATUL SUGAR SCREENS

The Most Trusted Name in Sugar Industry





Introduction



Atul Sugar Screens - an internationally well-known brand, synonymous for Quality and Reliability for Nickel screens for continuous centrifuges, is a professionally run company with a group of technocrats who are both innovative and futuristic.

ASS has earned the confidence of thousands of satisfied customers all over the world and holds market leadership in the Indian Market. Apart from the domestic market it has a strong presence in countries like USA, Europe, Brazil, Africa, Asia, Australia, Central & South America etc.

With its vast experience, excellent manufacturing and testing facilities and a rich blend of professional talent - ASS - has emerged as the largest exporter of Nickel Screens in Asia.





The Facilities



Manufacturing

Atul has a state-of-the-art manufacturing setup backed by excellent testing facilities. A highly trained work force at Atul is one of the strongest advantages besides the proven technology that is its forte. With continuous up gradation in the technology and methods, ASS is one of the forefront Nickel screen manufacturing facility of its kind in the world.



Research and Development

Research & Development is an ongoing process and ideology behind Atul's success. With the ever growing demands of its discerning customers, continuous upgradation of technology and application, from prototype to product, this is an ongoing process at Atul. The experts at the R & D often provide the much required design and engineering assistance to the customers.



Apart from the sugar industry, Atul brand screens have been successfully used in food processors, coffee machines, flour grinders, shavers and appliances. It has also found applications in paints, rayon and chemical industries. Atul R & D is striving to enhance the utility and aesthetics of many other products by judicious use of Atul Nickel Screens.

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Quality Control

The systems and procedures are backed by requisite instrumentation and intelligent systems. The states of art computerized systems are used to check the product at every stage of manufacturing.

To guarantee the performance, every Atul Screen is subjected to stringent quality checks

- From the throughput point of view, the open area of each screen is measured
- An electronic eye measures area of each slot
- It is compared with corresponding international standards on a go no-go basis

Such rigorous measures render a high quality and reliability to every Atul screen, what it is known for.





The Technology

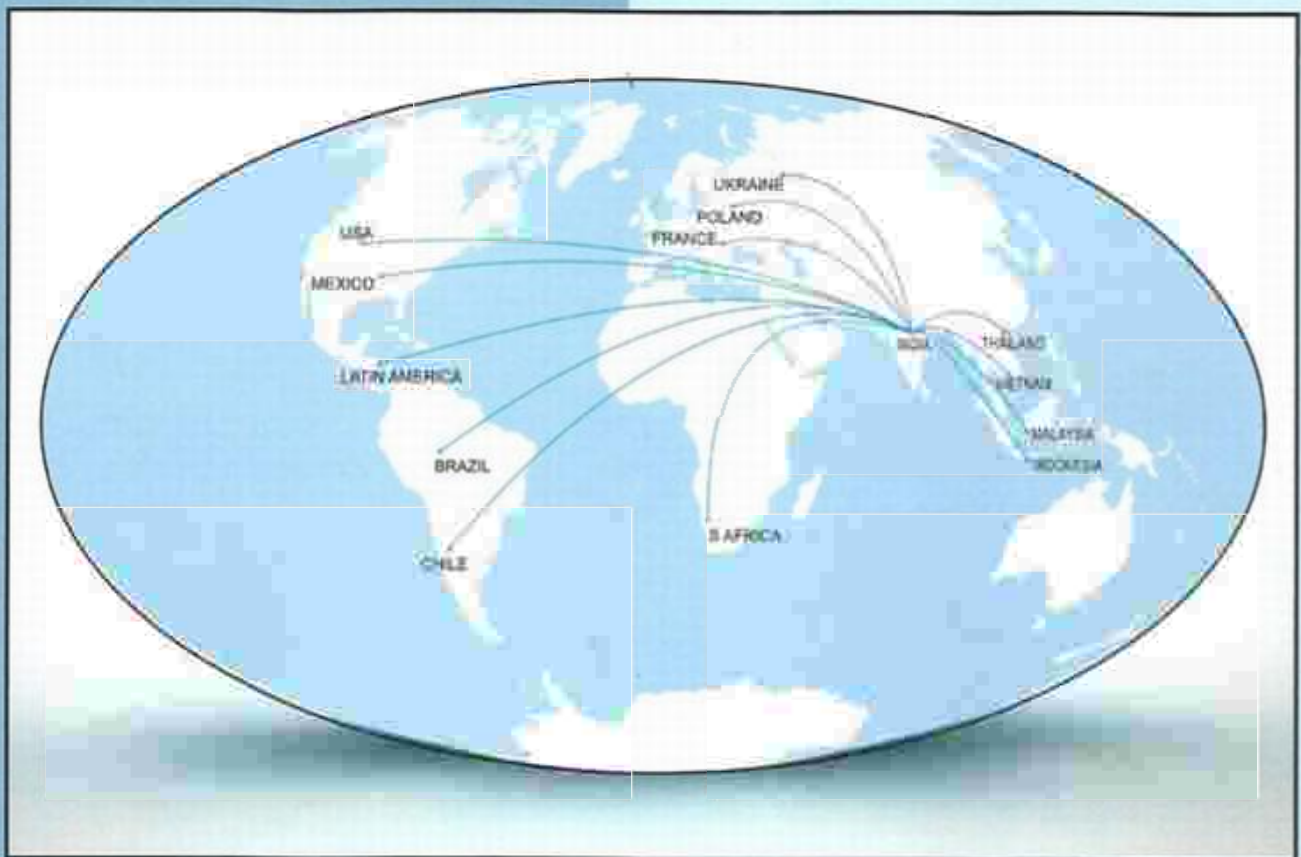
The heart of the technology is Electroforming process that allows precise duplication of the mandrel, resulting in high quality production with high repeatability. A matrix is produced by using photographic techniques of reduction followed etching. Highly accurate matrix having intricate slot shapes can be formed by this technology. Finally a Nickel screen which is electroformed on this matrix inherits all its immaculate features of accuracy and repeatability. Atul employs this explicit technology to manufacture screen with uniform slots, smooth finish and precise edge. The screens are made of high purity nickel. Subsequent to electroforming, they are hard chrome plated.

Our Products





Global Reach



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The Atul Advantages

- High purity Nickel Screens with close grained hard chromium plating for enhanced wear resistance
- Mirror smooth working surface to avoid sugar crystal damage during separation
- Maximum discharge efficiency on account of conical perforations without burr, clogging or blinding
- Suitable dimensions according to Centrifugal Manufacturer's Specifications
- Vast range of slot configurations for sugar purity level facilitates the most effective selection

Atul Products : A Complete Solution

The extremely smooth finish of Atul Screens ensures minimum break-up of the sugar crystal.

The precise sharp and chrome hardened conical slots on Atul Screens ensures highly efficient crystal separation. Due to their conical shape, the slots are far less susceptible to clogging or blinding.

The hard chrome plating on the working sides of Atul Screens increases the wear resistance thereby extending the working life span considerably.

Due to their good ductility, Atul Screens are very easy to mount and handle.

Atul Screens do not deform because of low internal stresses.

The appreciable tensile strength of Atul Screens prevents damages because of the high centrifugal forces they are subjected to.

Atul Nickel Screens are available in a wide range of slot sizes and configurations suitable for a variety of continuous centrifugals. A wide choice of thickness and open area is offered by Atul.

Sucromax™

New Nickel Screen with Supreme Performance

Here is one more addition to Atul's pioneering innovations. Sucromax, the new generation Nickel Screen. This new improved Nickel Screen is packed with features, each one developed by anticipating specific customer needs. Sucromax is an innovative idea that facilitates productivity and profitability in the sugar industry in more ways than one.

- Sucromax has more open area for more output
- Sucromax has reduced slot sizes for more sugar production, which helps reduce losses and increases sugar yield without losing throughput. This would also naturally give you reduced final molasses purity.
- Sucromax is made thicker than our standard screen for longer life.
- Sucromax increase process efficiency and save time thereby avoiding unnecessary energy loss too.

Comparison of Standard Screens with Sucromax						
Massequite	Standard Screen		Sucromax			
			For more output		For lower molasses purity	
	Slot width	Open Area	Slot width	Open Area	Slot width	Open Area
B Massequite	0.09 mm	9%	0.09 mm	11.5%	0.07 mm	9.0%
C Massequite	0.06 mm	6%	0.06 mm	7.5%	0.05 mm	6.7%



ATUL SCREENS FOR SUGAR CONTINUOUS CENTRIFUGALS

CENTRIFUGAL MANUFACTURER	ATUL STANDARD SCREENS
BMA - Germany	BMAK 850/30°, BMAK 850/35°, BMAK 1001/30°, BMAK 1100/30° (T + B), BMAK 1300/30°, BMAK 1301/30° (T+B), BMAK 1500/30° (T+B), BMAK 2100/30°, BMAK 2200/30°, BMAK 2300/30°, BMAK 2400/30°, BMAK 3300/30°
National Heavy Engineering Co. - India	NK 1100/30° (T+B), NK 1300/30°, NK 1301/30° (T+B), NK 1500/30° (T+B)
Bosco - Italy	BOSCO B-5, BOSCO B-5/34°, BOSCO B-6, BOSCO B-6-1100/34°, BOSCO BC 1500
Fives Cail - France	FC 1000/25°, FC 1000/30°, FC 1000/34°, FC 1250/28°, FC 1250/30°, FC 1250/34°, FC 1300/28°, FC 1300/30°, FC 1300/34°, FC 1550/30°, FC 1550/34°
F CBKCP - India	KCP 30, KCP 34, KCP 1100/30°, KCP 1100/34°, KCP 1350/30°, KCP 1350/30°(M)
Fletcher Smith - U. K.	ROTA 900/30, ROTA 1300/25°
Hein Lehmann - Germany	HL KONTI 6/34°, HL KONTI 8/30°, HL KONTI 8/34°, HL KONTI 9/34°, HL KONTI 10/30°, HL KONTI 10/34°, HL KONTI 12/28°, HL KONTI 12/30°, HL KONTI 12/34°
Walchand Nagar Industries - India	KONTI 6/34°, KONTI 8/30°, KONTI 8/34°, KONTI DC 9/34°, KONTI DC 10/30°, KONTI DC 10/34°, KONTI 12/30°, KONTI DC 12/34°, WK-1150/30°, DC 1350/30°, WK-1500/30°
Krupp Industries - India	C 1100/34°, SC 1100/30°, SC 1100/34°, SC 1350/30°, SC 1350/34°, KC 1100/30°T, KC 1500/30°T, KC 1350/30°T
Mouso S. A. - Brazil	MAUSA KONTI 6/34°, MAUSA KONTI 10/34°, MAUSA KONTI 12/34°, KONTI 14/34°, KONTI E 14/30°
Songerhausen - GmbH	FKHO-1400-C, FKHO-1250-B, FPI 1321-K-01
Pieralisi - Italy	SCP-C5/30°, SCP-C5/34°
Salzgitter - Germany	SMAG CC 900/30°, SMAG CC 900/34°
Silver Weibull - U.S.A.	SILVER 63/30, SW 1320/C, SILVER 3630, SILVER 4630
STGFCB - Australia	STG 85L, STG 110H, STG 110HG
Swidnicka Fabryca - Poland	C-600, C-1283, C-1622, C-2149, C-2149/34, ACWW 1000A
Thomas Broadbent - UK	SPV 1220/30°, SPV 1100/25°, SPV 1070/30°, SPV 1425/30, SPV 1575/30
TsukishimaKikai Company Ltd. - Japan	CONIX 110, CONIX 110/N30°
Western States Machine Co Inc - U.S.A.	ROBERTS 34, CC 5, 37" X 30" 1098(B), CC 6A, CCB, CC 1100/30°, TITAN 1300, TITAN 1400
ZVU - Czech	OKK 1400 M
Xianglong Centrifuge - China	IL 1000 N
Guangxi Su Group - China	LIT 850, LIT 1000, LIT 1200, LIT 1400, LIT 1100

ATUL SCREEN TYPE	SLOT SIZE (MM)	OPEN AREA (%)	THICKNESS (MM)
ATUL STANDARD Type 1 for normal applications	0.06 x 2.20	60	0.27
	0.09 x 2.30	90	0.25
	0.13 x 2.32	13.9	0.24
	0.15 x 2.35	15.5	0.23
ATUL STANDARD Type 2 for normal applications	0.06 x 1.66	70	0.25
	0.09 x 1.68	9.5	0.23
	0.13 x 1.72	140	0.21
ATUL STANDARD Type 3	0.04 x 2.35	4.5	0.32
	0.05 x 2.36	5.6	0.31
	0.06 x 2.37	6.8	0.30
	0.09 x 2.40	10.3	0.28
SUCROMAX Type 4 For Higher Throughput	0.04 x 2.76	500	0.32
	0.06 x 2.78	7.50	0.30
	0.09 x 2.80	11.00	0.28

Note: Other types of Screen slot sizes & thicknesses available upon request. Above specifications are subject to change without notice.