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LASTA SD is a horizontal filter press, designed to meet the customer's requests for 24 hrs fully automatic operation in production process of various industries. To meet the ever increasing demands of various customers for slurry dewatering, ISHIGAKI, based on years of experience and practical know-how, developed a unique press to provide perfect cake discharge, efficient cloth wash and short cycle time.

Features

1. Fully Automatic Operation, Perfect Cake Discharge

LASTA SD is designed for 24 hrs operation with our Cloth Travelling System for Fully Automatic Operation, even thin Cake, 3mm, can be easily discharged automatically.

2. High Production Capacity

LASTA SD is designed for high production capacity. All functions including Simultaneous Open & Close, Simultaneous Cloth Washing and Double-End Feeding Design lead to short cycle time and subsequent high production capability of LASTA SD.

3. Excellent Performance

All filter cloths are washed simultaneously at the lower edge of the plate pack, leaving no cake residue. The efficient cloth wash helps contribute to high and consistent performance of LASTA SD. In addition, effective Cake wash and Air blow are possible due to the Top Feed Port.

4. Superior High Dryness Dewatering Performance

LASTA SD is designed to process the slurry effectively and produce filter cake with higher dry solids.

Application

Agricultural Products	Sludge	Mineral Concentrates, Tailing,
Fermentation	 Municipal 	Residue & Leaching
Gypsum	 Industrial 	•Copper
Kaolin	•Alum	•Zinc
Oil Extraction	 Blast Furnace 	•Iron
Chemical processes		•Nickel
Talc	Metallic Compounds	•Silver
Pigments	•Oxide •Hydroxidos	•Gold
Resins	•Carbonates	
Cement	• Sulphates	
Coal	Salphaces	

Operation Sequence







%1. This flowsheet includes the cake wash process ※2. Air blow is an option for the process





LASTA MC is a horizontal Filter Press, which has been designed for relatively easy to discharge filter cakes as with Mineral Applications.

To meet the increasing demands of mining industry slurry dewatering applications, ISHIGAKI, based on years of experience and practical how-how, developed a press to provide high discharge consistency, reliability and performance, coupled with a greatly reduced maintenance requirement.

Features

1. Fully Automatic Operation

LASTA MC is designed for 24 hrs operation, with a Cake Discharge Monitoring System and a Back-Up Mechanism for Fully Automatic Operation. In the event some cakes remain in the chambers, this System activates automatically for perfect Cake Discharge.

2. High Production Capacity

LASTA MC is designed for high production capacity. All functions including Simultaneous Open & Close, Simultaneous Washing and Double-End Feeding Design lead to short cycle time and subsequent high production capability of LASTA MC.

3. Excellent Performance

All filter cloths are washed simultaneously from above the plate pack, leaving no cake residue. The efficient cloth wash helps contribute to high and consistent performance of LASTA MC. In addition, Cake wash and Air blow are possible due to the Top Feed Port.

4. Robust and Simple Design

LASTA MC is mechanically simplified and has been designed with fewer moving parts, which leads to easy maintenance even under severe conditions. Especially the filter cloth for each individual chamber can be quickly and easily replaced.

Cement

Coal

Application

Mineral	Concentrates,	Residue,
Tailing	& Leaching	
 Copper 		
•Zinc		
 Iron 		
 Nickel 		
C'1		

 Silver Gold





Cloth Support Assembly

The cloths, which are hung from support bars at the top of each plate, can be readily and individually changed by one person in a few minutes, requiring no skills or tools. The support bars are located by springs which are designed to compress under cake load. No adjustments are required during cloth installation.



and its attached cake. to dislodge the filter cake. to their "down" position.

Discharge Minitoring System and Back-Up Mechanism

If abnormalities in the operating process arise and result in incomplete cake discharge after press opening, a photo-electric beam will detect its presence and a back-up discharge mechanism will be automatically activated. Two vibration rails running the full length of the press are mounted to lifting cylinders. Upon activating the mechanism, the rails are raised coming into contact with the lowered cloth support assembly

A vibration force is transmitted After a preset time the vibrators are turned off and the rails return



MACHINE SPECIFICATION



STANDARD SPECIFICATION OF ISD "LASTA SD"

PLATE SIZE		FILTER AREA	GENERAL DIMENSION (mm)		GENERAL DIMENSION (mm)	GENERAL DIMENSION (mm)	
(mm)	NUMBER OF CHAMBERS	(m²)	A	В	С		
	8	12	4,087	2520	2045		
	12	18	4,637				
	16	24	5,187				
1 000	20	30	5,792				
1,000-	24	36	6,542	2,330	2,543		
	28	42	7,292				
	34	51	8,417				
	40	60	9,542				
	18	65	6,555				
	24	87	7,590				
	26	94	8,015				
	30	109	8,865				
1,500□	34	123	9,715	3,300	3,760		
	38	138	10,565				
	42	157	11,415				
	46	167	12,265				
	50	182	13,115				
2 000 🗆	32	215	11,430	4 900	4 655		
2,000	40	269	13,490	4,600	4,000		



STANDARD SPECIFICATION OF ISDG "LASTA SD GIANT"

PLATE SIZE NUMBER OF OUTAMPERS FILTER AN		FILTER AREA	GENERAL DIMENSION (mm)		
(mm)	NUMBER OF CHAMBERS	5 (m ²)	A	В	С
	30	109	7,040		
	40	145	8,440	3,650 3,300	3,300
	50	182	9,990		
_	60	218	11,390		
1,500니	70	255	14,550	4,270	4,550
	80	291	15,950		
	90	327	17,450		
	100	364	18,850		
2,100□	60	480	15,130		
	70	560	16,730	4,800 5,500	
	80	640	18,430		5,500
	90	720	20,030		
	100	800	21,630		





STANDARD SPECIFICATION OF MCF/MCD "LASTA MC"

PLATE SIZE		FILTER AREA (m ²)		GENERAL DIMENSION (mm)	
(mm) NUMBER OF CHAMBER	NUMBER OF CHAMBERS		A	В	С
	18	65	6,620	3,400	3,730
	24	87	8,010		
1,500	26	94	8,470		
	30	109	9,400		
	34	123	10,330		
	38	138	11,250		
	42	153	12,180		
	46	167	13,110		
	50	182	14,030		

STANDARD SPECIFICATION OF MCFGC/MCDGC "LASTA MC GIANT"





0	PTION		
	DIAPHRAGM PRE	SSURE	●M
	MODEL	PRESSURE	St
	L	0.7MPa(7kgf/cm ²)	st
	н	1.5MPa(15kgf/cm ²)	fil
	R	2.0MPa(20kgf/cm ²)	Ot
	S	2.9MPa(30kgf/cm²)	CL

CAKE WASH SYSTEM

Wash water passes through the filter cake, foreign substances in cake are removed or precious substances in cake are extracted.

Normal Cake wash

Wash water is fed into each chamber from the top feeding port, passing through the cake and discharged via the filtrate port.

Back Cake wash

The wash water is fed from filtrate port of one plate; it passes through the cake and then discharged from the filtrate port of the next plate.

GENERAL DIMENSION (mm)				
A B		С		
9,195				
10,695	3,860	4,200		
12,195				
14,355	3,860			
15,555				
16,755		4,550		
17,955				
19,155				
10,265	4,650	5 000		
11,865		5,000		
14,515	4,650			
15,795				
17,075		5 550		
18,355		3,300		
19,635				
20.915				

IATERIAL OPTION

tandard LASTA's consists of mild teel and stainless steel frame, PP Iter plate and rubber diaphragm. ther materials are available to suit ustomer's requests.

