



Rotating Table Vacuum Filter

Introduction

Begg Cousland and the Jiangsu New Hongda Group began their collaboration in 2002, when a license agreement was signed between the 2 companies. Since then the Begg Cousland mist eliminator range has been assembled and marketed in China by Jiangsu New Hongda, with huge success.

In 2006 Begg Cousland started to market the Jiangsu New Hongda process equipment range to the Phosphate / Process industries outside China, under a special marketing agreement. As well as complete new filters, we can offer revamp and upgrade services.

HDZP Rotating Pan Vacuum Filters

These complex filters have been made by Jiangsu New Hongda since 2000. In 2005 alone, there were 40 made for the domestic China market.

A wide range of filter sizes is available, see the table below.

Phosphoric Acid Application :

The Phosphate cake processing rate is 18 T / m² / day.

A typical P₂O₅ production rate is 1 T P₂O₅ per 5 T cake.

In comparison with the HDZP, standard tilting pan (TP) rotating filters have some key disadvantages :

- TP needs more wear & maintenance
- TP has a wetter discharged cake
- TP needs larger diameter / larger footprint to allow tilting operation – typically 60% more footprint.
- TP has 45 – 55% higher cost price



Liquid outlet 'trays'

Wedge wire screen surface

Table of Turntable Vacuum Filter Specifications

Model	Nominal Area m ²	Effective Area m ²	Outer Diameter mm	Inner Diameter mm
HDZP 8	8	7	3514	1400
HDZP 14	14	12	4500	1400
HDZP 18	18	15	5200	2000
HDZP 25	25	22	6100	2300
HDZP 30	30	25	6700	2500
HDZP 45	45	38	8150	3020
HDZP 55	55	46	8900	2990
HDZP 65	65	55	9780	3600
HDZP 80	80	68	10970	4298
HDZP 100	100	86	12340	5000
HDZP 120	120	100	13500	5400
HDZP 140	140	120	14438	5498
HDZP 106	160	140	15300	5500
HDZP 180	180	158	16360	6200
HDZP 200	200	172	17600	7400
HDZP 220	220	193	18560	8000
HDZP 240	240	200	19570	8800



A HDZP filter operating in China in a P₂O₅ Plant



Cake discharge screw conveyor arms

Typical Applications :

- Phosphoric Acid plant (P₂O₅ / Cake)
- Aluminium Industry (NaOH / Alkali solvent)
- TiO₂
- FGD (Gypsum)

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