

■ Process: Production of stone blocks and gravel



Large hole-drilling machine



Block cutting unit

■ The Task

The winning of stone blocks and the production of gravel various blast holes have to be drilled into the rock. This is done with rock drilling equipment such as vertical hammers, deep-hole hammers, rotary drilling machines, etc.

For the safety of both man and machine the highly abrasive and heavily quartz-laden dust emitted from the holes has to be intercepted and disposed. The abrasive characteristic of the dusts puts enormous impact on the filter media. If there also water veins are hit during the drilling process, textile filter media may be damaged irreparable. The resulting need to replace filter media at frequent intervals leads to unacceptable production downtimes and high costs of repair.

Trouble-free operations can therefore only be achieved with a rugged, low-wearing filter media with a constant extraction air rate - such as that offered by the Herding® sintered plate filter.

■ The Solution

Herding® sintered plate filters for stone winning and processing

- ⇒ Compact and rigid body with a life expectancy of 10 years or more allows for trouble-free operation
- ⇒ No wear on the filter elements from abrasive rock dust
- ⇒ Constant extraction air rates due to online cleaning of the filter elements during extraction
- ⇒ Possibility of dust-free disposal of the extracted dust by sealable plastic sacks
- ⇒ Comfortable operation due to automatic controls

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Tables of filter types for drilling machines

HYDRAULIC MOTOR								
Purging air rate Nm ³ /min	Compressor pressure up to 10 bar				Compressor pressure up to 25 bar			
	Filter type	Oil quantity l/min	Oil pressure bar	Filter area m ²	Filter type	Oil quantity l/min	Oil pressure bar	Filter area m ²
	4	Hy-A-10/S	25	180	7.1	Hy-A-16/S	25	205
8	Hy-A-25/S	25	190	15.5	Hy-A-25/S	25	205	15.5
11	Hy-A-25/S	25	205	15.5	Hy-A-30/S	85	85	16.6
14	Hy-A-30/J	85	70	16.6	Hy-A-40/J	85	90	36.0
18	Hy-A-40/J	85	85	36.0	Hy-A-50/J	85	95	36.0
25	Hy-A-50/J	85	90	36.0	Hy-A-60/J	85	105	46.4
30	Hy-A-60/J	85	90	46.4	Hy-A-80/J	85	110	46.4
35	Hy-A-80/J	77	105	61.0	Hy-A-100/J	77	115	61.0

COMPRESSED AIR INJECTOR						
Purging air rate Nm ³ /min	Compressor pressure up to 10 bar			Compressed pressure up to 25 bar		
	Filter type	Compressed air consumption m ³ /min	Filter area m ²	Filter type	Compressed air consumption m ³ /min	Filter area m ²
	4	IN-A-10/S	2.2	7.1	IN-A-15/S	4.6
8	IN-A-15/S	4.1	7.1	On request		

ELECTRIC MOTOR						
Also available as special versions on request						
Purging air rate Nm ³ /min	Compressor pressure up to 10 bar			Compressor pressure up to 25 bar		
	Filter type	Power requirement KW	Filter area m ²	Filter type	Power requirement KW	Filter area m ²
	4	EL-A-10/S	5.5	7.1	On request	
8	EL-A-16/S	5.5	7.1	On request		
11	EL-A-25/J	7.5	15.5	On request		
14	EL-A-30/J	11.0	16.6	On request		

The values shown in these tables are for equipment fitted with standard components.

Other versions with special components are available on request.

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