



**ORTHOS**  
process equipment

Another

# Technical Brochure

...from Orthos (Engineering) Ltd:

manufacturers' agents specialising in powder processing equipment and plant safety.

If your company is involved in the building materials, industrial minerals, glass, refractories, food & drink, fine chemical and pharmaceutical industries in the United Kingdom, you can call on us to discuss your next process improvement. We are constantly reviewing our product range to ensure that we're offering the most relevant capital equipment for powder processing.

You can read, listen and watch all our latest process equipment news at Orthos in Action. So whatever your need, whether it's new equipment, used equipment, or just advice, you can call on us to discuss your next process improvement – it's our business to help you.

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# LAARMANN

*Innovators in Solids*

## Test Sieves

Test Sieves with precision wire gauze, perforated plates or electroformed mesh

# LAARMANN

*Innovators in Solids*

[www.laarmann.eu](http://www.laarmann.eu)

- Highest precision and accuracy
- Optimized & permanent tension of the sieve bottom
- Highest stability for Laboratory and Industry
- Laser marking of all individual Test Sieve Parameters
- Inspection certificate supplied with each test sieve
- Re-Meshing of up to 2,20 m sieve diameter



Your local contact



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## Features of a precision test sieve

We offer qualitative advantages compared with other manufacturers in each detail. It is profitable to compare the details.

### Multiple advantages due to the sum of the details:

- Designed for effective usage
- Reduced maintenance required
- Less cross contamination
- Inspection certificate included
- O-Ring included

#### 1. Highest precision and accuracy.

Folded rim ensures highest stability for Laboratory and Industrial Applications

#### 2. Strong precision frame

Optimum fitting accuracy when used in sieve stacks

#### 3. Inspection certificate without extra charge

Each sieve is optically measured. This inspection certificate is supplied with each test sieve

#### 4. Fillet

Highest representativeness of the sample due to reduced adhesion behavior of the sample at the sieve-frame

#### 5. Optimized and permanent tension of the mesh (Wire tension)

#### 6. External sealing

Optimum external sealing from sieve to sieve by additional O-Ring (included without extra charge)

#### 7. Inspection of wirecloth at each manufacturing process

The wire is permanently checked at each stage of the manufacturing process. The mesh will be permanently controlled by optical computer scanning from the weaving up to the final mounting

#### 8. Laser marking of all individual test sieve parameters

Valid for all test sieve parameters up to 450 mm. A smooth and endless sieve frame ensures a simple and fast cleaning. Due to this laser marking technology the corrosion and cross contamination is minimized compared with traditional labelling methods



## We supply test sieves with 45/75/100/150/200/203/250/315/400/450 mm sieve diameter:

- We supply test sieves with 45/75/100/150/200/203/250/315/400/450 mm sieve diameter
- Sieve mesh made from stainless steel, 20 µm up to 150 mm aperture size
- Perforated round hole sieves, 500 µm up to 100 mm aperture sizes
- Perforated square hole sieve, 4 mm up to 100 mm aperture sizes
- O-Ring included in scope of delivery
- Inspection certificate included in scope of delivery



## Accessories for sieve analysis



We supply the following accessories for all available sieve diameters

- Sieve cover
- Collector bottom for dry sieving
- Collector bottom with outlet for wet sieving
- Intermediate bottom (for multiple sieve processes in one process)
- Intermediate rings (to enlarge the distance between sieves)



## Digital Sieving Machine

Type LSM-300/450 recommended for Laarmann Test sieves up to 450 mm diameter

Furthermore sieving machines, sieving brushes and sieving aids complete our product range. For more information please visit

## European and American aperture sizes

ISO		ISO		
ISO 3310-1:2000 BS410-1:2000		ISO 3310-2:1999 BS410-2:2000		
aperture sizes		aperture sizes		
µm	mm	Round & Square Holes in mm		Only Square Holes in mm
20	1	125	18	2,5
25	1,12	112	16	2,36
32	1,18	106	14	2,24
36	1,25	100	13,2	2
38	1,4	90	12,5	1,8
40	1,6	80	11,2	1,7
45	1,7	75	10	1,6
50	1,8	71	9,5	1,4
53	2,0	63	9	1,25
56	2,24	56	8	1,18
63	2,36	53	7,1	1,12
71	2,5	50	6,7	1
75	2,8	45	6,7	
80	3,15	40	6,3	
90	3,35	37,5	5,6	
100	3,55	35,5	5	
106	4,00	31,5	4,75	
112	4,50	28	4,5	
125	4,75	26,5	4	
140	5,00	25	3,55	
150	5,60	22,4	3,35	
160	6,30	20	3,15	
180	6,70	19	2,8	
200	7,10			
212	8,00			
224	9,00			
250	10,00			
280	11,20			
300	12,50			
315	13,20			
355	14,00			
400	16,00			
425	18,00			
450	19,00			
500	20,00			
560	22,40			
600	25,00			
630	26,50			
710	28,00			
850	31,50			
900	35,50			