HAVER & BOECKER

DIE DRAHTWEBER

PARTICLE ANALYSIS. DOWN TO ULTRA-FINE WITH UTMOST PRECISION.

PARTICLE ANALYSIS

In numerous industrial manufacturing and machining processes, only a careful analysis of materials and substances can lay the foundations for achieving the best results. Based on expertise and more than 100 years of experience in wire fabric technology, Haver & Boecker provides innovative systems for particle analysis which continue to set new standards in functionality, precision and reliability, and guarantee maximum security of investment.

From sand, earth and construction materials to foodstuffs and recycling, from chemicals and plastics to varnishes, paints and special coatings, our analysis systems provide better quality assurance. Haver & Boecker is certified to ISO 9001: 2008 and is a leading member of the International Standards Committee for Test Sieves (ISO TC 24). Our customers in industry, research and development therefore immediately have a number of guarantees that Haver & Boecker test sieves and test sieve shakers – like all products from our factory – are manufactured to the most stringent quality requirements, from the choice of wire grade to the finished product.

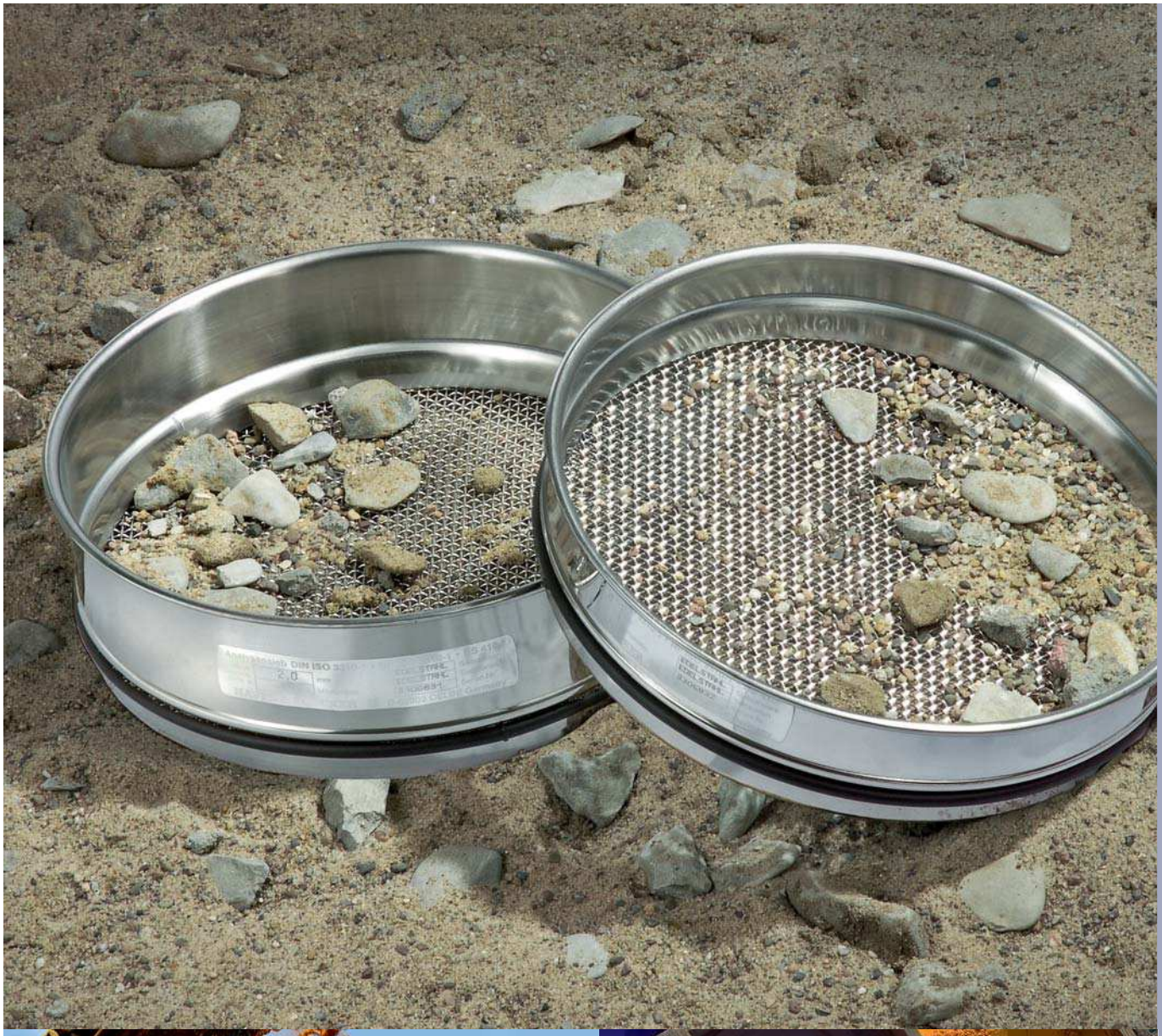
Users and dealers benefit from concentrated expertise and efficient service from the whole Haver Group, which also includes the world's largest manufacturer of test sieves, W.S. Tyler in the U.S.A.

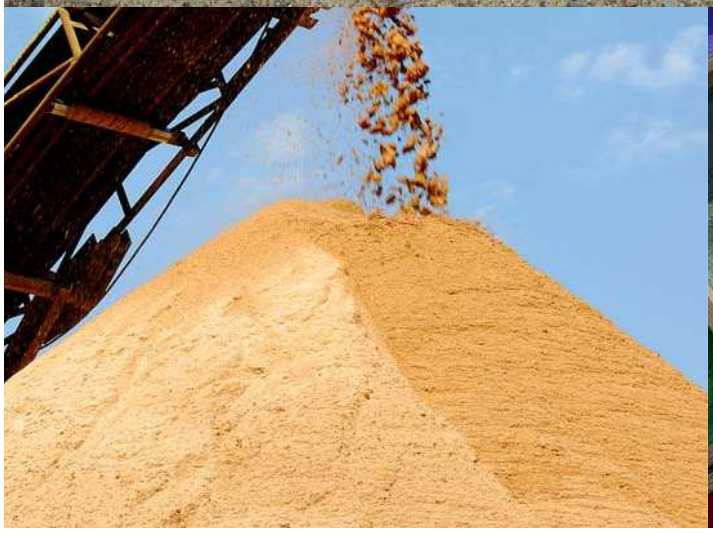
With our combined range of services, we are a one-stop shop for everything from test sieves to complete test sieve shakers.

Haver & Boecker began producing wire cloth in Hohenlimburg, Germany, in 1887. Today, we are one of the world's leading wire weaving companies with a global network of branches and manufacturing facilities.

Our work is based upon experience, continuous research and development of our products and manufacturing processes, along with the knowledge and ability of our staff. This combination of tradition and innovation allows us to meet and exceed the high expectations of our customers.

OFFERING THE RIGHT SIEVE TO MEET ALL REQUIREMENTS.



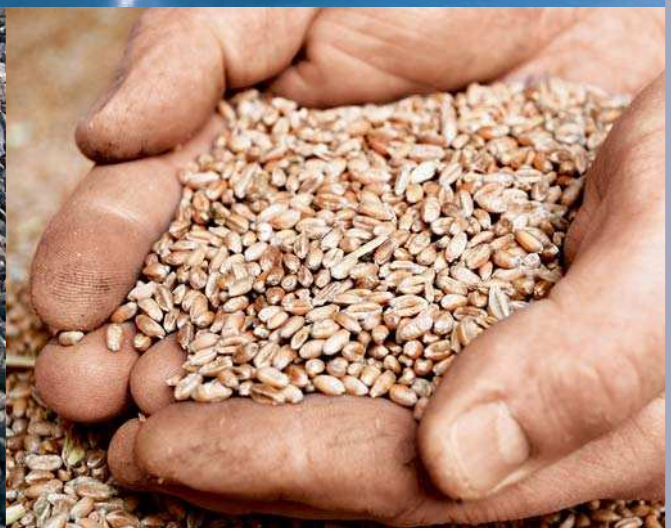


SIEVES – THE HEART OF EVERY ANALYSIS.

Haver & Boecker provides the right test sieve for every screening task. Examples include robust designs made from plates with square perforations to ISO 3310-2 for screening road-building stone, concrete additives, gravel, sand, ballast or – with slotted plates to ISO 5223 – for testing grain. Classic test sieves with wire mesh sieve bottoms are available over the entire standard range of mesh sizes from 0.02 mm to 125 mm. They are thus suitable for bulk materials of all sizes from widely differing sectors. The particularly smooth surface of their frames prevents cross contamination, and the sieve fabric retains its tension exceedingly well even after intensive use. Test sieves with electroformed sheets are mainly used for hole sizes in the micron range from 5 µm to 100 µm. Their electrogalvanically produced nickel foils have round or square holes and are standardised up to 500 µm.

Highly accurate and extremely stable.

Haver test sieves are available in all common diameters from 76.2 mm to 400 mm. Wooden-framed sieves are available with 300 mm and 500 mm sides. Their areas of use are extremely varied. All test sieves are manufactured in accordance with current standards and are distinguished by their especially high accuracy and stability. High-quality frame materials, the extremely stable sieve structure which has been developed in-house, and careful machining guarantee long life and trouble-free operation. As well as different sieve designs, a number of matching accessories are also available, ranging from sieve covers to sieve pans.



HAVER TEST SIEVES – PRECISION IN ALL SHAPES AND SIZES.

The Haver test sieve range covers a wide spectrum of applications and materials and provides the optimum design for every operational requirement: with bottoms made of robust perforated metal sheet to the finest wire cloth, with precision frames made from stainless steel, wood or aluminium.

IN ALL SIZES.

76,2 mm

100 mm

150 mm

200 mm/203 mm=8″

250 mm

IN ALL SHAPES.

Special execution for ATM-Sonic Sifter

Test Sieve with square hole plate

Test Sieve for cereals according to ISO 5223

Special execution, old generation, for ALPINE® Air Jet Sieve

Special execution, new generation, for ALPINE® Air Jet Sieve

Test Sieve for tobacco

300 mm/305 mm=12″

350 mm

400 mm

Cast Aluminium Frame with interchangeable screens

Test Sieve with beechwood frame

Grid Sieve according to EN 933-3

International Test Sieve Comparison Table 2010

TEST SIEVES, NOMINAL SIZES OF OPENINGS

125–1 mm

TABLE 1

Internationale Analysensieb-Vergleichstabelle 2010

SIEBBÖDEN FÜR ANALYSENSIEBE (Prüfsiebe) Maschen- bzw. Lochweiten

1	2	3	4	5	6	7	8	9	10	11
ISO 565 · ISO 3310 Table 1, Millimetre sizes			DEU	FRA	GBR	NLD	USA		CAN	TYLER®
			DIN	NF	BSI	N	ASTM		CGSB	
Principal sizes Hauptreihe	Supplementary sizes Nebenreihen		DIN ISO 3310	AFNOR NF ISO 3310	BS 410 ISO 3310	NEN 2560	ASTM E 11 #, 2004 ASTM E 323 ⏢, 1980 (2004)		CAN/ CGSB-8.2-M88 metric	TYLER Screen Scale
R 20/3	R 20	R 40/3								
2000			2001	2000	2000	1998			1988	1910
ISO 3310-1	Woven Wire Cloth #		125–1	125–1	125–1	125–1	125–1		125–1	26,5–1
ISO 3310-2	Round Holes ●		125–1	125–1	125–1	125–1	125–1			
	Square Holes ■		125–4	125–4	125–4	125–4	125–3.35			
w	w	w	w	w	w	w	w	No.	w	Mesh
125	125	125	125	125	125	125	125	5 in.	125	
	112		112	112	112	112			112	
		106	106	106	106	106	106	4.24 in.		
	100		100	100	100	100	100 [b]	4 in. [b]	100	
90	90	90	90	90	90	90	90	3.1/2 in.	90.0	
	80		80	80	80	80			80.0	
		75	75	75	75	75	75	3 in.		
	71		71	71	71	71			71.0	
63	63	63	63	63	63	63	63	2.1/2 in.	63.0	
	56		56	56	56	56			56.0	
		53	53	53	53	53	53	2.12 in.		
	50		50	50	50	50	50 [b]	2 in. [b]	50.0	
45	45	45	45	45	45	45	45	1.3/4 in.	45.0	
	40		40	40	40	40			40.0	
		37,5	37,5	37,5	37,5	37,5	37.5	1.1/2 in.		
	35,5		35,5	35,5	35,5	35,5			35.5	
31,5	31,5	31,5	31,5	31,5	31,5	31,5	31.5	1.1/4 in.	31.5	
	28		28	28	28	28			28.0	
		26,5	26,5	26,5	26,5	26,5	26.5	1.06 in.		1.05 in.
	25		25	25	25	25	25.0 [b]	1 in. [b]	25.0	
22,4	22,4	22,4	22,4	22,4	22,4	22,4	22.4	7/8 in.	22.4	.883 in.
	20		20	20	20	20			20.0	
		19	19	19	19	19	19.0	3/4 in.		.742 in.
	18		18	18	18	18			18.0	
16	16	16	16	16	16	16	16.0	5/8 in.	16.0	.624 in.
	14		14	14	14	14			14.0	
		13,2	13,2	13,2	13,2	13,2	13.2	0.530 in.		.525 in.
	12,5		12,5	12,5	12,5	12,5	12.5 [b]	1/2 in. [b]	12.5	
11,2	11,2	11,2	11,2	11,2	11,2	11,2	11.2	7/16 in.	11.2	.441 in.
	10		10	10	10	10			10.0	
		9,5	9,5	9,5	9,5	9,5	9.5	3/8 in.		.371 in.
	9		9	9	9	9			9.0	
8	8	8	8	8	8	8	8.0	5/16 in.	8.0	2.1/2
	7,1		7,1	7,1	7,1	7,1			7.10	
		6,7	6,7	6,7	6,7	6,7	6.7	0.265 in.		3
	6,3		6,3	6,3	6,3	6,3	6.3 [b]	1/4 in. [b]	6.30	
5,6	5,6	5,6	5,6	5,6	5,6	5,6	5.6	3.1/2	5.60	3.1/2
	5		5	5	5	5			5.00	
		4,75	4,75	4,75	4,75	4,75	4.75	4		4
	4,5		4,5	4,5	4,5	4,5			4.50	
4	4	4	4	4	4	4	4.00	5	4.00	5
	3,55		3,55	3,55	3,55	3,55			3.55	
		3,35	3,35	3,35	3,35	3,35	3.35	6		6
	3,15		3,15	3,15	3,15	3,15			3.15	
2,8	2,8	2,8	2,8	2,8	2,8	2,8	2.80	7	2.80	7
	2,5		2,5	2,5	2,5	2,5			2.50	
		2,36	2,36	2,36	2,36	2,36	2.36	8		8
	2,24		2,24	2,24	2,24	2,24			2.24	
2	2	2	2	2	2	2	2.00	10	2.00	9
	1,8		1,8	1,8	1,8	1,8			1.80	
		1,7	1,7	1,7	1,7	1,7	1.70	12		10
	1,6		1,6	1,6	1,6	1,6			1.60	
1,4	1,4	1,4	1,4	1,4	1,4	1,4	1.40	14	1.40	12
	1,25		1,25	1,25	1,25	1,25			1.25	
		1,18	1,18	1,18	1,18	1,18	1.18	16		14
	1,12		1,12	1,12	1,12	1,12			1.12	
1	1	1	1	1	1	1	1.00	18	1.00	16

Woven Wire Cloth # Drahtgewebe Round Holes ● Rundlochung Square Holes ■ Quadratlochung

[b] ASTM Supplementary values

International Test Sieve Comparison Table 2010

TEST SIEVES, NOMINAL SIZES OF OPENINGS

900–5 µm

TABLE 2

Internationale Analysensieb-Vergleichstabelle 2010

SIEBBÖDEN FÜR ANALYSENSIEBE (Prüfsiebe) Maschen- bzw. Lochweite

1	2	3	4	5	6	7	8	9	10	11
ISO 565 · ISO 3310 Table 2, Micrometre sizes			DEU	FRA	GBR	NLD	USA		CAN	TYLER®
			DIN	NF	BSI	N	ASTM		CGSB	
Principal sizes Hauptreihe	Supplementary sizes Nebenreihen		DIN ISO 3310	AFNOR NF ISO 3310	BS 410 ISO 3310	NEN 2560	ASTM E 11 #, 2004 ASTM E 161 ⧉, 2000 (2004)		CAN/ CGSB-8.2-M88 metric	TYLER Screen Scale
R 20/3	R 20	R 40/3								
	2000		2001	2000	2000	1998			1988	1910
ISO 3310-1	Woven Wire Cloth #		900–20	900–20	900–20	900–20	850–20	850–20	900–32	850–20
ISO 3310-3	Electroformed ⧉		500–5	500–5		500–5	500–5			
w	w	w	w	w	w	w	w	No.	w	Mesh
	900		900	900	900	900			900	
		850	850	850	850	850	850	20		20
	800		800	800	800	800			800	
710	710	710	710	710	710	710	710	25	710	24
	630		630	630	630	630			630	
		600	600	600	600	600	600	30		28
	560		560	560	560	560			560	
500	500	500	500	500	500	500	500	35	500	32
	450		450	450	450	450			450	
		425	425	425	425	425	425	40		35
	400		400	400	400	400			400	
355	355	355	355	355	355	355	355	45	355	42
	315		315	315	315	315			315	
		300	300	300	300	300	300	50		48
	280		280	280	280	280			280	
250	250	250	250	250	250	250	250	60	250	60
	224		224	224	224	224			224	
		212	212	212	212	212	212	70		65
	200		200	200	200	200			200	
180	180	180	180	180	180	180	180	80	180	80
	160		160	160	160	160			160	
		150	150	150	150	150	150	100		100
	140		140	140	140	140			140	
125	125	125	125	125	125	125	125	120	125	115
	112		112	112	112	112			112	
		106	106	106	106	106	106	140		150
	100		100	100	100	100			100	
90	90	90	90	90	90	90	90	170	90	170
	80		80	80	80	80			80	
		75	75	75	75	75	75	200		200
	71		71	71	71	71			71	
63	63	63	63	63	63	63	63	230	63	250
	56		56	56	56	56			56	
		53	53	53	53	53	53	270		270
	50		50	50	50	50			50	
45	45	45	45	45	45	45	45	325	45	325
	40		40	40	40	40			40	
		38	38	38	38	38	38	400		400
R'10	36		36	36	36	36			36	
32			32	32	32	32	32	450	32	450
25			25	25	25	25	25	500		500
20			20	20	20	20	20	635		635
16 ⧉			16 ⧉	16 ⧉		16 ⧉	15 ⧉			
10 ⧉			10 ⧉	10 ⧉		10 ⧉	10 ⧉			
5 ⧉			5 ⧉	5 ⧉		5 ⧉	5 ⧉			

Woven Wire Cloth # Drahtgewebe

Electroformed ⧉ Elektrogeformte Siebfolie