seed analyzing

precise, fast, efficient

MARVIN 5.0

grain seeds, vegetable seeds, flower seeds
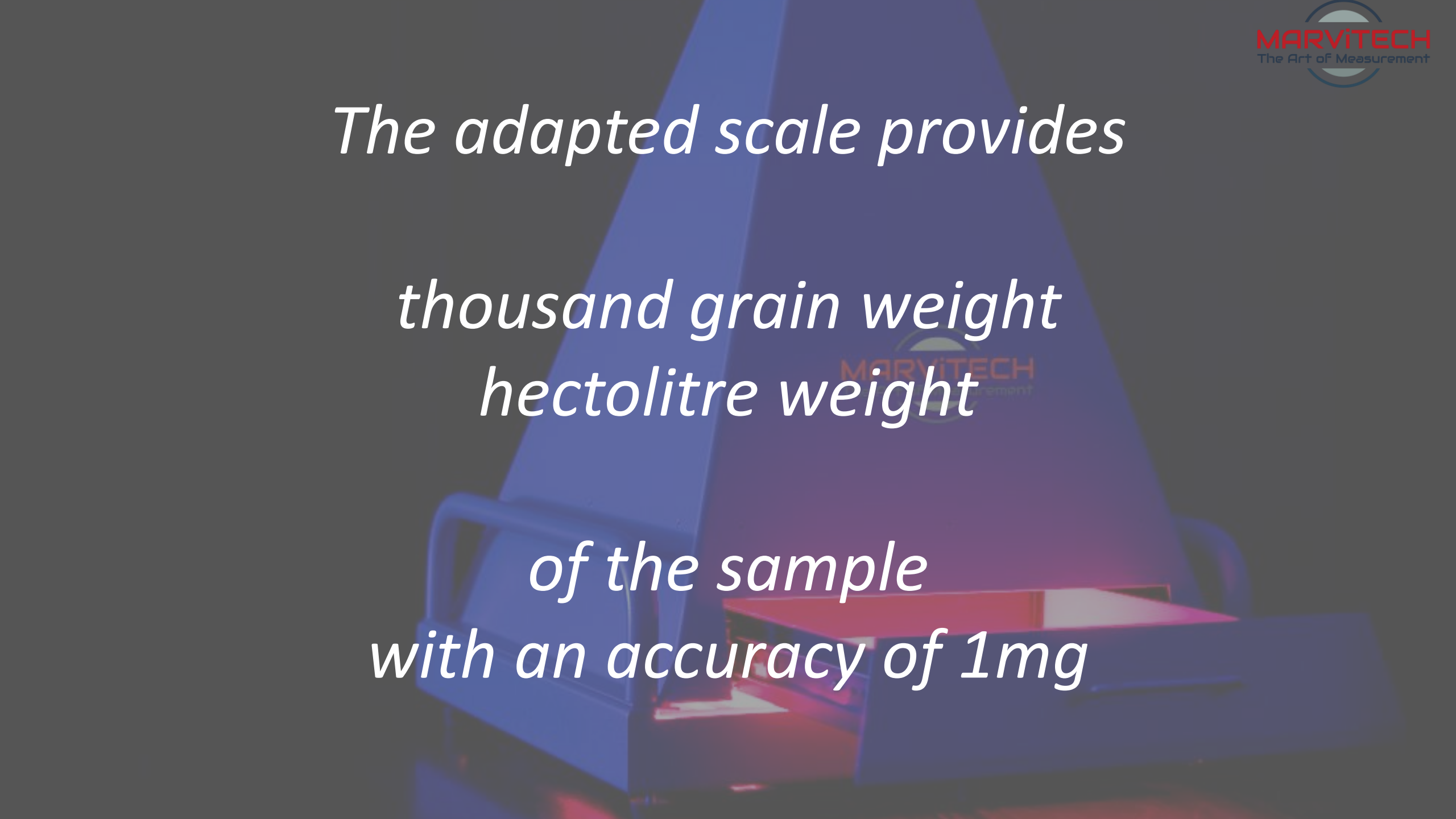
wheat, barley, rye, triticale, oat, rapeseed, turnip, mustard, pea, bean, sunflower, corn, begonias, clover, lupine, *primrose*, *tomato*, etc.

507 corns in less than 1,5 seconds

length, width, area
fractionation

every single corn
from a size of 0,2 mm

The adapted scale provides

thousand grain weight
hectolitre weight

of the sample
with an accuracy of 1mg

screen view

original image and label image

Hordeum vulgare (507 Main Seeds)

fraction chart

Type	Count As	Length(mm)	Width(mm)	Area(mm²)	Circularity	L/W Ratio
Hordeum vulgare	1	9.8	3.6	23.1	1.8	2.7
Hordeum vulgare	1	8.4	3.7	21.3	1.6	2.3
Hordeum vulgare	1	8.6	3.7	22.1	1.6	2.3
Hordeum vulgare	1	8.0	3.2	17.7	1.6	2.5
NO SEED	1	4.4	1.0	2.5	3.1	4.7
Hordeum vulgare	3	11.5	9.0	62.0	4.0	1.3
Hordeum vulgare	1	7.7	3.4	17.7	1.5	2.3
Hordeum vulgare	1	7.5	3.4	17.6	1.6	2.2
Hordeum vulgare	1	9.4	3.6	22.4	1.8	2.6
Hordeum vulgare	1	9.9	4.3	29.3	1.5	2.3

single corn data

Type	Count As	Length(mm)	Width(mm)	Area(r
Hordeum vulgare	1	8.3	4.0	
Hordeum vulgare	1	7.2	3.4	
Hordeum vulgare	1	8.8	3.3	
Hordeum vulgare	1	9.2	3.5	
Hordeum vulgare	1	7.6	4.0	
NO SEED	1	4.4	3.5	
Hordeum vulgare	2	14.1	3.9	
Hordeum vulgare	1	9.7	4.2	
Hordeum vulgare	1	7.2	4.0	
Hordeum vulgare	1	7.4	3.3	

Main Seed	Main Seeds	Weight(g)	TGW(g)	B-Stocking
Hordeum vulgare	507	22.46	44.30	3

detection of half / broken corns

cluster detection

B	C	D	E	F	G	H	I	J	K	L	M	N
Main Seed	Main Seeds	Weight(g)	TGW(g)	B-Stocking	ØArea	ØWidth	ØLength	ØCircularity	ØL/W Ratio	Volume Wei	Date	Time
Hordeum vu	507	22,46	44,3	3	20,9	3,6	8,5	1,6	2,4	56,1	31.03.2019	20:37

export of sample data in xls format

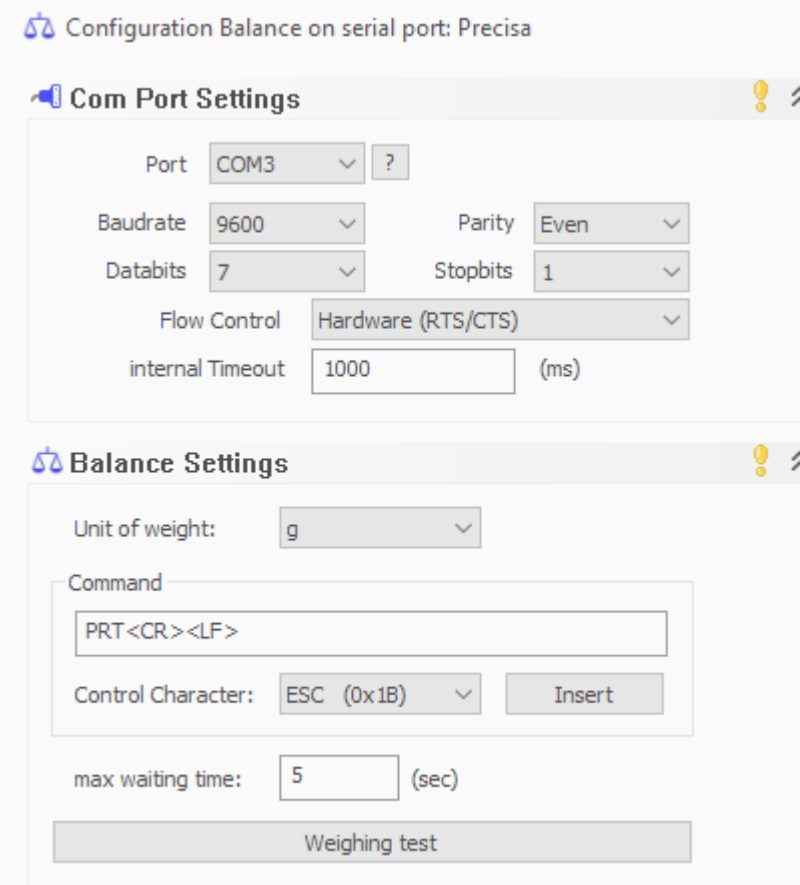|	A	B	C	D	E	F	G	H
1	Type	Count As	Length(mm)	Width(mm)	Area(mm²)	Circularity	L/W Ratio	
2	Hordeum vulc	1	8,6	3,9	23,3	1,5	2,2	
3	Hordeum vulc	1	11,0	3,5	24,7	2,0	3,1	
4	Hordeum vulc	1	8,7	3,4	20,5	1,7	2,6	
5	Hordeum vulc	1	8,4	4,1	24,4	1,5	2,0	
6	Hordeum vulc	1	8,1	3,3	18,0	1,6	2,5	
7	Hordeum vulc	1	8,6	4,1	24,5	1,5	2,1	
8	Hordeum vulc	1	8,8	4,0	23,5	1,5	2,2	
9	Hordeum vulc	1	8,5	3,5	21,3	1,6	2,4	
10	Hordeum vulc	1	8,2	3,6	20,1	1,5	2,3	
11	Hordeum vulc	1	11,1	3,6	24,7	2,0	3,1	
12	Hordeum vulc	1	8,1	4,0	22,1	1,5	2,0	
13	Hordeum vulc	1	8,1	3,6	21,3	1,5	2,2	
14	Hordeum vulc	1	8,7	3,2	17,8	1,9	2,7	
15	Hordeum vulc	1	8,0	2,9	15,1	1,8	2,7	
16	Hordeum vulc	1	8,5	4,0	23,9	1,5	2,1	
17	Hordeum vulc	1	8,1	3,7	20,1	1,5	2,2	
18	Hordeum vulc	1	10,8	4,1	28,9	1,7	2,6	
19	Hordeum vulc	1	8,7	4,1	25,1	1,5	2,1	
20	Hordeum vulc	1	8,9	3,5	22,3	1,7	2,5	
21	Hordeum vulc	1	8,7	4,5	27,1	1,5	2,0	
22	Hordeum vulc	1	8,9	3,6	20,5	1,7	2,5	
23	Hordeum vulc	1				1,6		
24	Hordeum vulc	1	7,2					
25	Hordeum vulc	1	8,0	3,7	20,1	1,6	2,1	
26	Hordeum vulc	1	8,0	3,7	20,3	1,5	2,2	
27	Hordeum vulc	1	8,0	3,4	19,3	1,6	2,3	
28	Hordeum vulc	1	9,1	3,7	22,5	1,7	2,5	
29	Hordeum vulc	1	8,4	4,1	23,7	1,4	2,0	
30	Hordeum vulc	1	8,5	3,5	22,6	1,8	2,7	

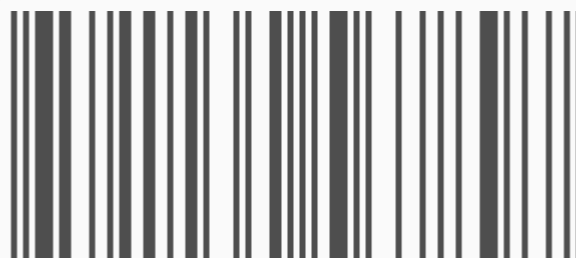export of single corn data in xls format

selection of different profils

Scales of manufacturers Kern, Mettler, Sartorius, Precisa, Ohaus are pre-configurate.

pre-configurate scales

integration of scanner and label-printer

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messtechnik@marvitech.de

+49 38852 / 233224

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