

levelling elements in cast iron
type R ST



levelling elements in cast iron version R ST

A combination of base in cast iron and levelling screw in version ST (non-pendulum) - with counter nut DIN 439.

standard colour of the base in cast iron: RAL 9006 white-aluminium
other colour tones according to RAL on request

optional: special electro-plating for the bases in cast iron and levelling screws in nickel or chrome, as well as stainless steel screws

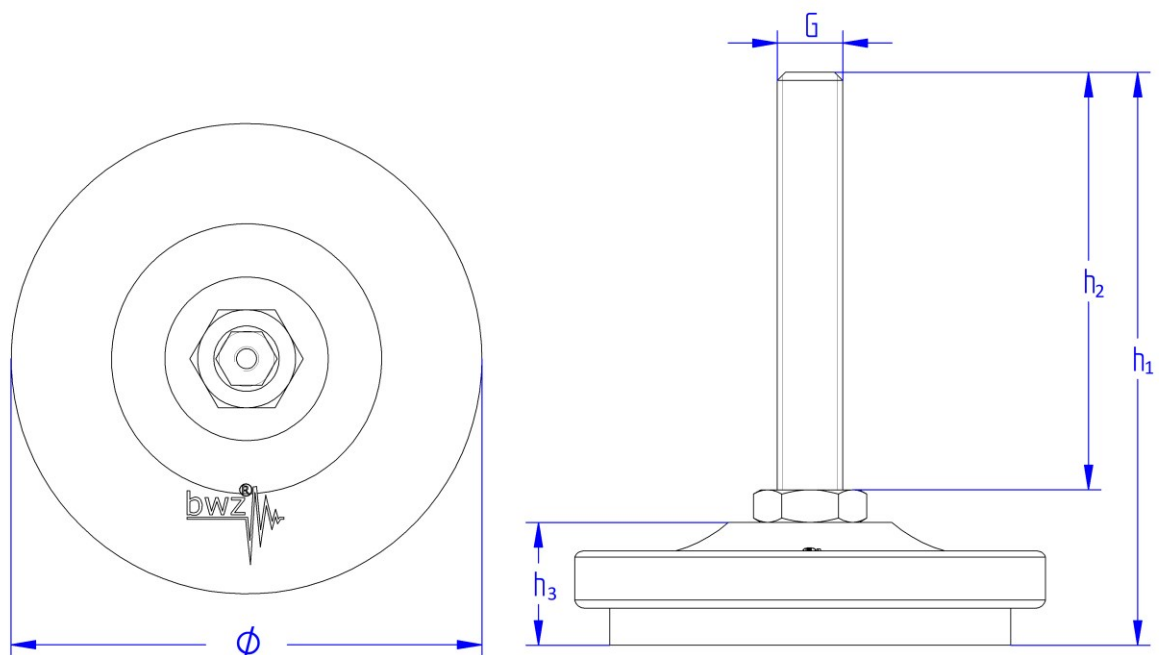
levelling screws are supplied with the following accessories

2 x nut DIN 934 / ISO 4032
1 x washer DIN 125 / ISO 7089
1 x washer DIN 9021 / ISO 7093
from thread size M24 upwards
2 x nut DIN 934 / ISO 4032
2 x washer DIN 125 / ISO 7089

length specification h_2 of the levelling screw relates to the net thread length

assembly of the levelling screws with the nuts and washers, individual packaging of levelling elements in quick-lock mechanism bags and customized article labelling available at extra charge

schematic illustration version R ST



levelling elements in cast iron type R ST with elastomer NBR 5514

applications: passive isolation e.g. for metrology equipment, scales, dosage units and optical devices
elastomer surface smooth, without tread pattern

type		Ø	h ₁	h ₂	h ₃	thread (G)	hardness	load
description	article number	mm	mm	mm	mm		±5 Shore	daN
6R ST NBR5514	7023 0001	70	132	100	25	M12	55	100
7R ST NBR5514	7033 0001	88	133	100	25	M16	55	150
10R ST NBR5514	7043 0001	115	136	100	29	M16	55	250
13R ST NBR5514	7053 0001	145	138	100	32	M16	55	500
16R ST NBR5514	7063 0001	165	141	100	34	M20	55	800
20R ST NBR5514	7073 0001	225	196	150	39	M20	55	1800

levelling elements in cast iron type R ST with elastomer NBR 5518

applications: passive isolation e.g. for metrology equipment, scales, dosage units and optical devices
elastomer surface with tread pattern - higher insulation effect as compared to type with NBR 5514

type		Ø	h ₁	h ₂	h ₃	thread (G)	hardness	load
description	article number	mm	mm	mm	mm		±5 Shore	daN
6R ST NBR5518	7023 0002	70	136	100	29	M12	55	100
7R ST NBR5518	7033 0002	88	137	100	29	M16	55	150
10R ST NBR5518	7043 0002	115	140	100	33	M16	55	250
13R ST NBR5518	7053 0002	145	142	100	36	M16	55	500
16R ST NBR5518	7063 0002	165	145	100	38	M20	55	800
20R ST NBR5518	7073 0002	225	200	150	43	M20	55	1800

levelling elements in cast iron type R ST with elastomer NBR 7516

applications: damping / insulation e.g. for highly dynamic machinery, presses, shears, punches, compressors and pumps
elastomer surface with tread pattern

type		Ø	h ₁	h ₂	h ₃	thread (G)	hardness	load
description	article number	mm	mm	mm	mm		±5 Shore	daN
6R ST NBR7516	7023 0003	70	133	100	26	M12	75	250
7R ST NBR7516	7033 0003	88	134	100	26	M16	75	400
10R ST NBR7516	7043 0003	115	137	100	30	M16	75	700
13R ST NBR7516	7053 0003	145	139	100	33	M16	75	1200
16R ST NBR7516	7063 0003	165	142	100	35	M20	75	1500
20R ST NBR7516	7073 0003	225	197	150	40	M20	75	2500

levelling elements in cast iron type R ST with elastomer NBR 7525

applications: damping / insulation e.g. for highly dynamic machinery, presses, shears, punches, compressors and pumps
elastomer surface with tread pattern - higher insulation / damping effect as compared to type with NBR 7516

type		Ø	h ₁	h ₂	h ₃	thread (G)	hardness	load
description	article number	mm	mm	mm	mm		±5 Shore	daN
6R ST NBR7525	7023 0004	70	143	100	36	M12	75	250
7R ST NBR7525	7033 0004	88	144	100	36	M16	75	400
10R ST NBR7525	7043 0004	115	147	100	40	M16	75	700
13R ST NBR7525	7053 0004	145	149	100	43	M16	75	1200
16R ST NBR7525	7063 0004	165	152	100	45	M20	75	1500
20R ST NBR7525	7073 0004	225	207	150	50	M20	75	2500

levelling elements in cast iron type R ST with elastomer NBR 8516

applications: damping of e.g. general (CNC) machine tools, textile machines, graphic machines
and machines with horizontal thrust
elastomer surface with tread pattern

type		Ø	h ₁	h ₂	h ₃	thread (G)	hardness	load
description	article number	mm	mm	mm	mm		±5 Shore	daN
6R ST NBR8516	7023 0005	70	133	100	26	M12	90	300
7R ST NBR8516	7033 0005	88	134	100	26	M16	90	500
10R ST NBR8516	7043 0005	115	137	100	30	M16	90	1000
13R ST NBR8516	7053 0005	145	139	100	33	M16	90	1700
16R ST NBR8516	7063 0005	165	142	100	35	M20	90	2000
20R ST NBR8516	7073 0005	225	197	150	40	M20	90	3000

levelling elements in cast iron type R ST with elastomer NBR 8525

applications: damping of e.g. general (CNC) machine tools, textile machines, graphic machines
and machines with horizontal thrust
elastomer surface with tread pattern - higher damping effect as compared to type with NBR 8516

type		Ø	h ₁	h ₂	h ₃	thread (G)	hardness	load
description	article number	mm	mm	mm	mm		±5 Shore	daN
6R ST NBR8525	7023 0006	70	143	100	36	M12	90	300
7R ST NBR8525	7033 0006	88	144	100	36	M16	90	500
10R ST NBR8525	7043 0006	115	147	100	40	M16	90	1000
13R ST NBR8525	7053 0006	145	149	100	43	M16	90	1700
16R ST NBR8525	7063 0006	165	152	100	45	M20	90	2000
20R ST NBR8525	7073 0006	225	207	150	50	M20	90	3000

levelling elements in cast iron type R ST with elastomer NBR 9014

applications: damping of e.g. machining centres, transfer units, (CNC) machine tools, circular- and flat-grinding machines,
long-bedded machines with low intrinsic rigidity, drilling and milling devices
elastomer surface smooth, without tread pattern

type		Ø	h ₁	h ₂	h ₃	thread (G)	hardness	load
description	article number	mm	mm	mm	mm		±5 Shore	daN
6R ST NBR9014	7023 0007	70	133	100	26	M12	90	300
7R ST NBR9014	7033 0007	88	134	100	26	M16	90	500
10R ST NBR9014	7043 0007	115	137	100	30	M16	90	1000
13R ST NBR9014	7053 0007	145	139	100	33	M16	90	1700
16R ST NBR9014	7063 0007	165	142	100	35	M20	90	2000
20R ST NBR9014	7073 0007	225	197	150	40	M20	90	3000

screw options

thread	
description	net thread length mm
M8	on request
M10	100, 150, 200, 250
M12	100, 150, 200, 250
M14	on request
M16	100, 150, 200, 250
M18	on request
M20	100, 150, 200, 250
M24	100, 150, 200, 250
M30	100, 150, 200, 250

Special thread lengths, alternative electro-plating with nickel or chrome, threads with special fine pitch, stainless steel levelling screws or special materials on request.

Custom solutions and modifications as per customer's request are possible any time, owing to our high internal manufacturing depth (CNC and conventional).

length specifications of the levelling screws relate to the net thread length h_2 - further net thread lengths on request

data on materials and tolerances

components in cast iron

according to DIN EN ISO 8062-3 DCTG 10 -/- manufacturing tolerance: according to ISO 2768-mk
materials: EN GJL 200 / EN GJL 250

elastomers

shore-hardness A measurement: according to DIN 53505 or rather DIN ISO 7619-1
tolerances for dimensions with tool-form based elastomer parts according to DIN ISO 3302-1, class M3
materials: NBR 55° / 75° / 90° ± 5 shore A, dimensional tolerance ± 1 mm

threads / levelling screws

according to DIN 976 -/- manufacturing tolerance: according to ISO 2768-mk
materials: steel blank 4.8 - steel zinc-coated 4.8 - stainless steel A2

Technical modifications subject to change! Any previous versions of this document are herewith null and void!