



KISSLIG

Clamping Systems K-System 5000

K-System 5000

Example applications

**Do you machine flat, round
or complex castings?**

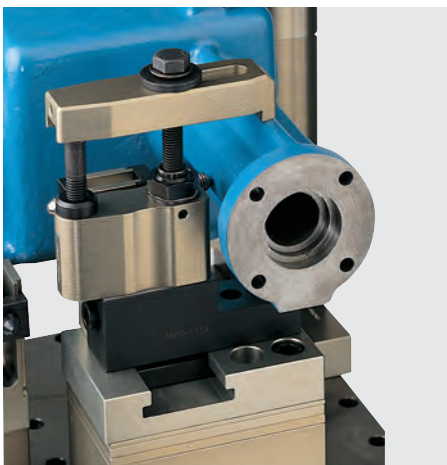
We can supply you with the right clamping elements!



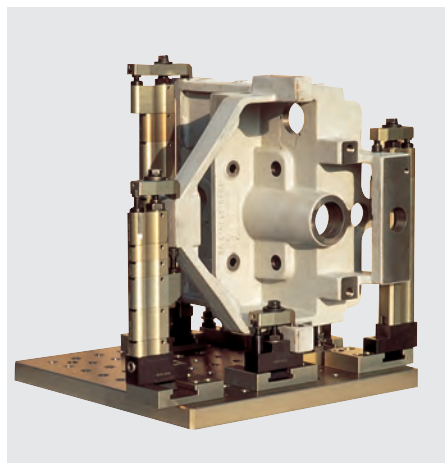
*Clamping a
complete casting.*



*The workpiece is
clamped firmly
with the pressed-in
clamping point.*



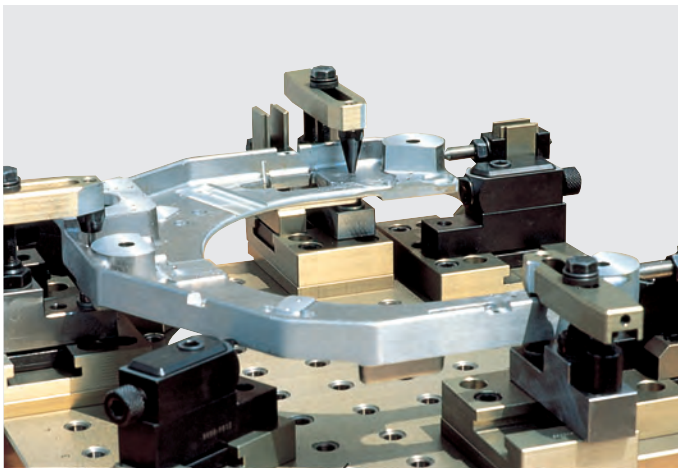
*Clamped safely,
with strong clam-
ping elements.*



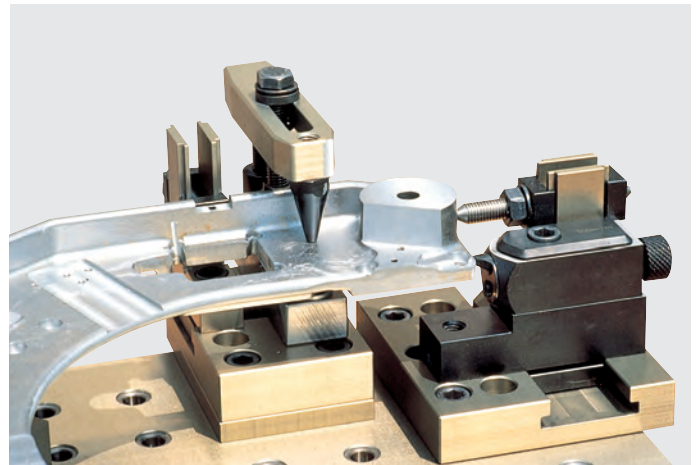
*Designed with a
system, exploiting
the advantages of
standardized ele-
ments.*

Clamping a wide variety of cast parts reliably (in a stable position, fast, and with precision) is everyday routine for many manufacturing firms. Using a wealth of imagination and more or less suitable aids, fixture designers produce veritable wonders of clamping jigs... then the workpiece changes «a little» (customers say), and the fixture will have to be changed from top to bottom...

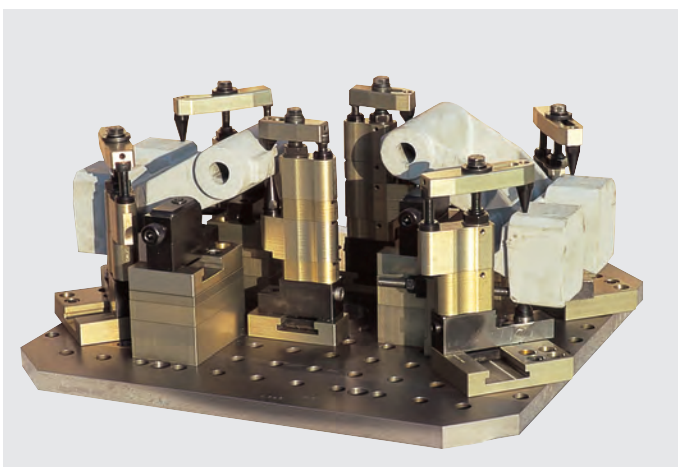
Not so with KISSLIG K5000. This unique system of clamping elements is so flexible that even major changes in dimensions and shapes can be dealt with without any cutting rework on the fixture. This has a direct advantage: delivery times remain short since resetting will not take a lot of time. The store of fixtures will remain small since unused fixtures will be dismantled, and individual parts can be used again.



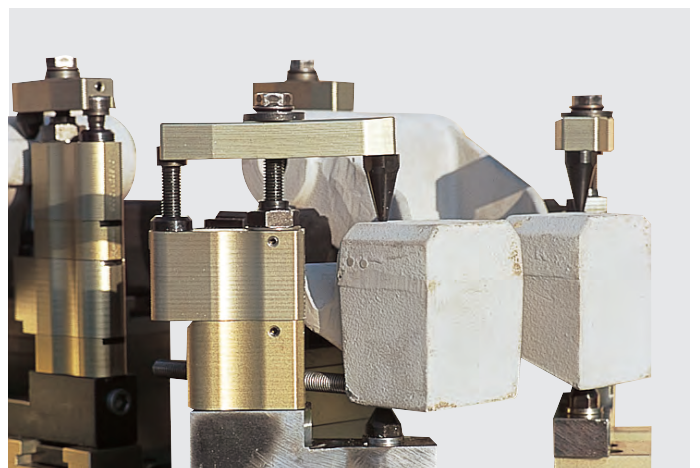
Slimline clamping and stop elements for optimum accessibility.



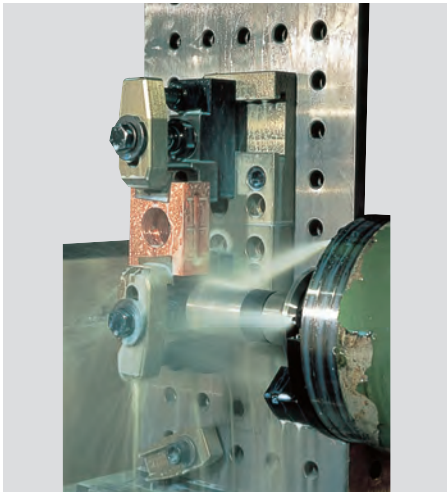
The flexibility is unmistakable; movable and adjustable basic elements.



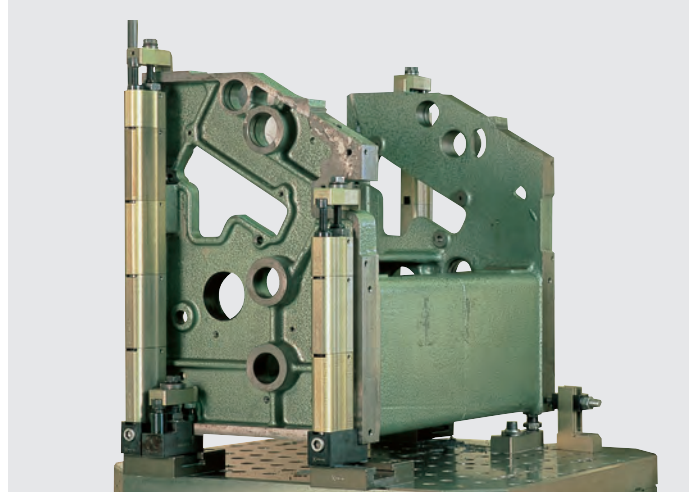
Chucking with 2 workpieces.



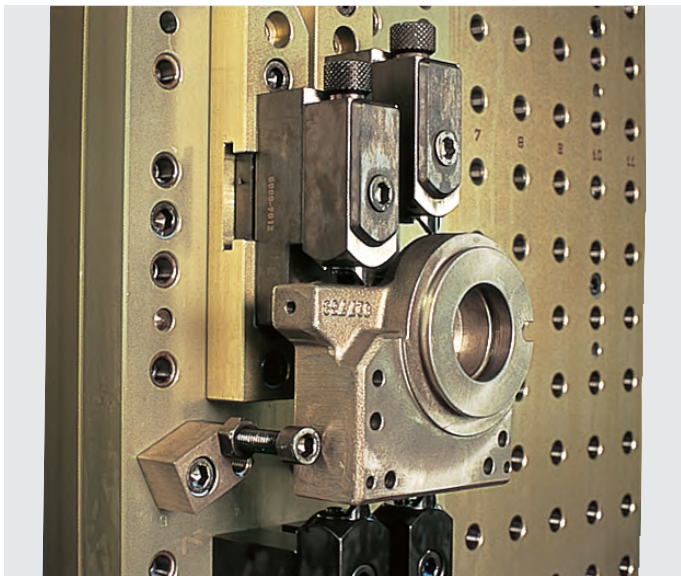
Large free space for machining.



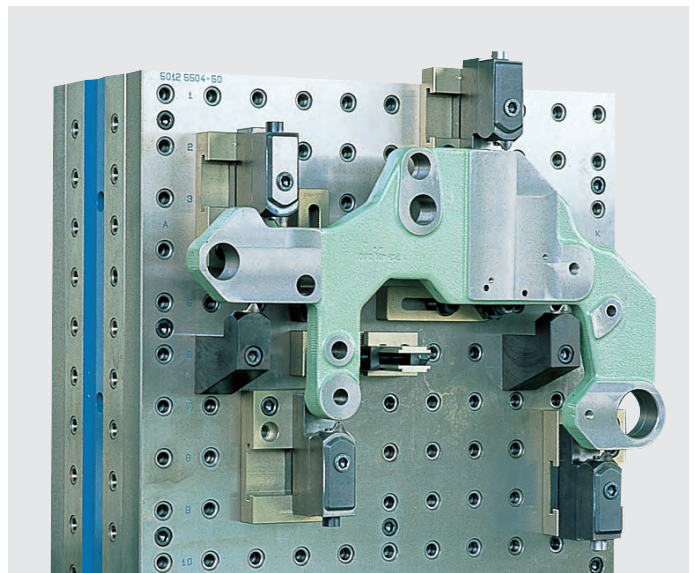
Clamping at top and bottom with the same baseplate.



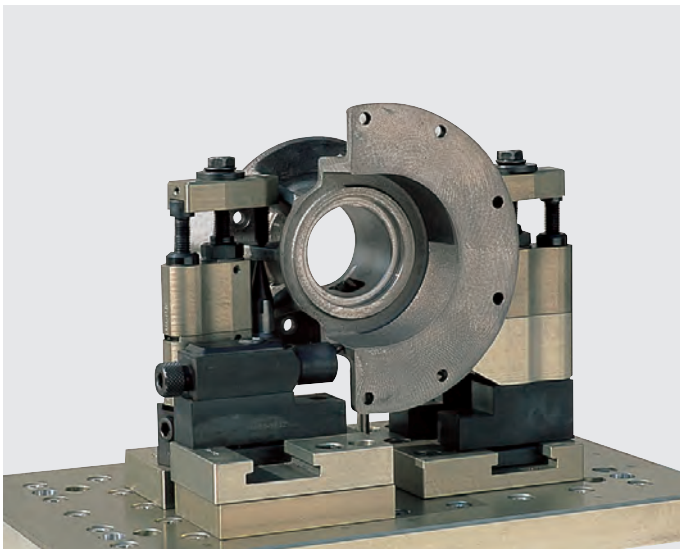
Clamping with soft support.



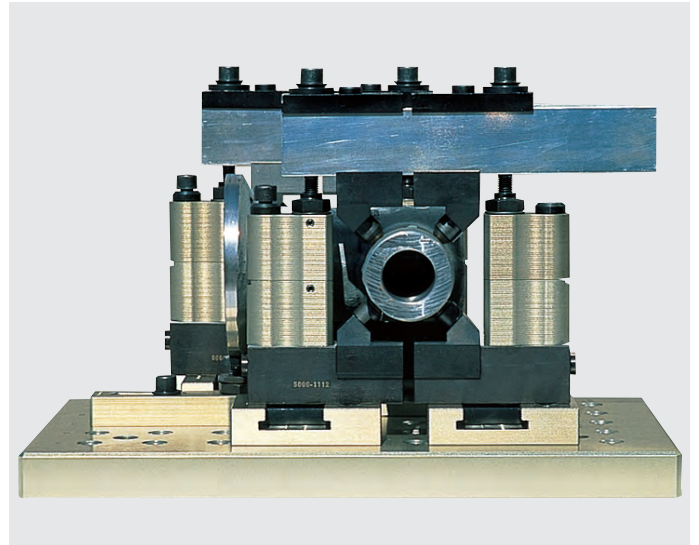
The flexibility is unmistakable; movable and adjustable basic elements.



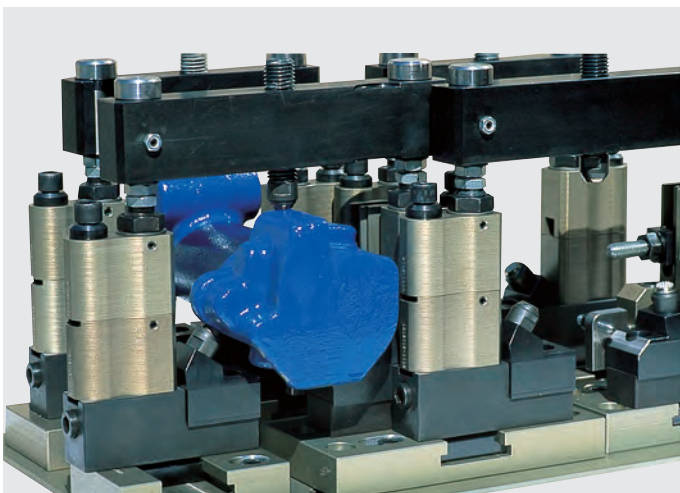
Face-parallel clamping with lateral clamp.



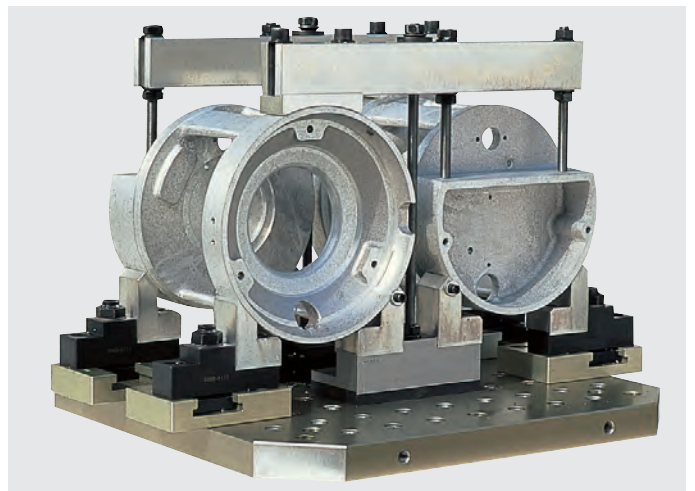
Flange clamped on 3 intermediate supports.



Water valve 3-sided machining.



Chuck for holding 2 round workpieces, special jig.



Clamping round workpieces with soft supports.

K-System 5000

Mono clamping element



Material:

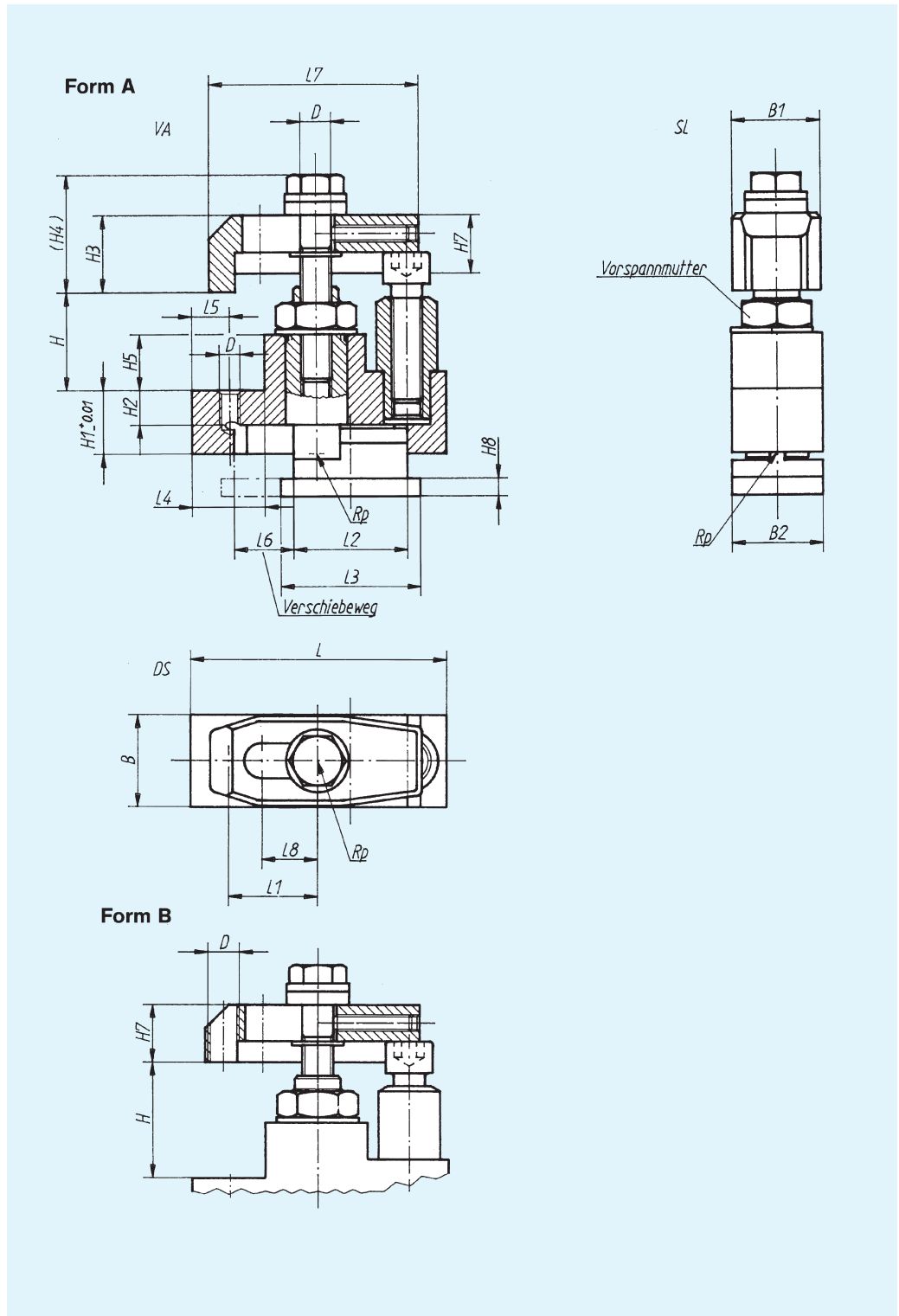
Claw made of high-performance aluminum, other components made of steel, lock screw property class 8.8.

Finish:

Claw with a heavy-duty elox finish, steel components bronzed, base carbo-nitrided, support and fitting surfaces ground.

Note:

Mono clamping elements are used as complete clamping units in conjunction with base plates or horizontal adapters. The T-slot design developed for the K-System 5000 (patent pending) enables users to place and clamp a workpiece in any position within a range of 50 x 50mm from the same point of reference. The lock nut serves to keep elements in the chosen positions. The threaded borehole in the support surface enables users to fit support elements such as soft supports, clamping points, pendulum supports, etc.



Technical data for mono clamping element

Order number Form A	Order number Form B	D	L	L ₁	L ₂	L ₃	L ₄	L ₅	L ₆	L ₇	L ₈	B	B ₁	B ₂	H clamping range		H ₁	H ₂	H ₃	H ₄	H ₅	H ₇	H ₈	Approx. weight kg
															Form A	Form B								
5000-0012	5000-0012B	12	98	34	44	54	29	15	24	83	22	35	34	35	33-58	39-64	24	13	28	45	21	22	6.5	1.400
5000-0016	5000-0016B	16	121	42	54	68	36	18	29	108	26	45	45	45	40-80	47-87	30	18	33	54	25	26	9	2.810

Specimen order: Mono clamping element Form A 5000-0012

M8 and M20 on request

K-System 5000

Mono clamping element, long



Material:

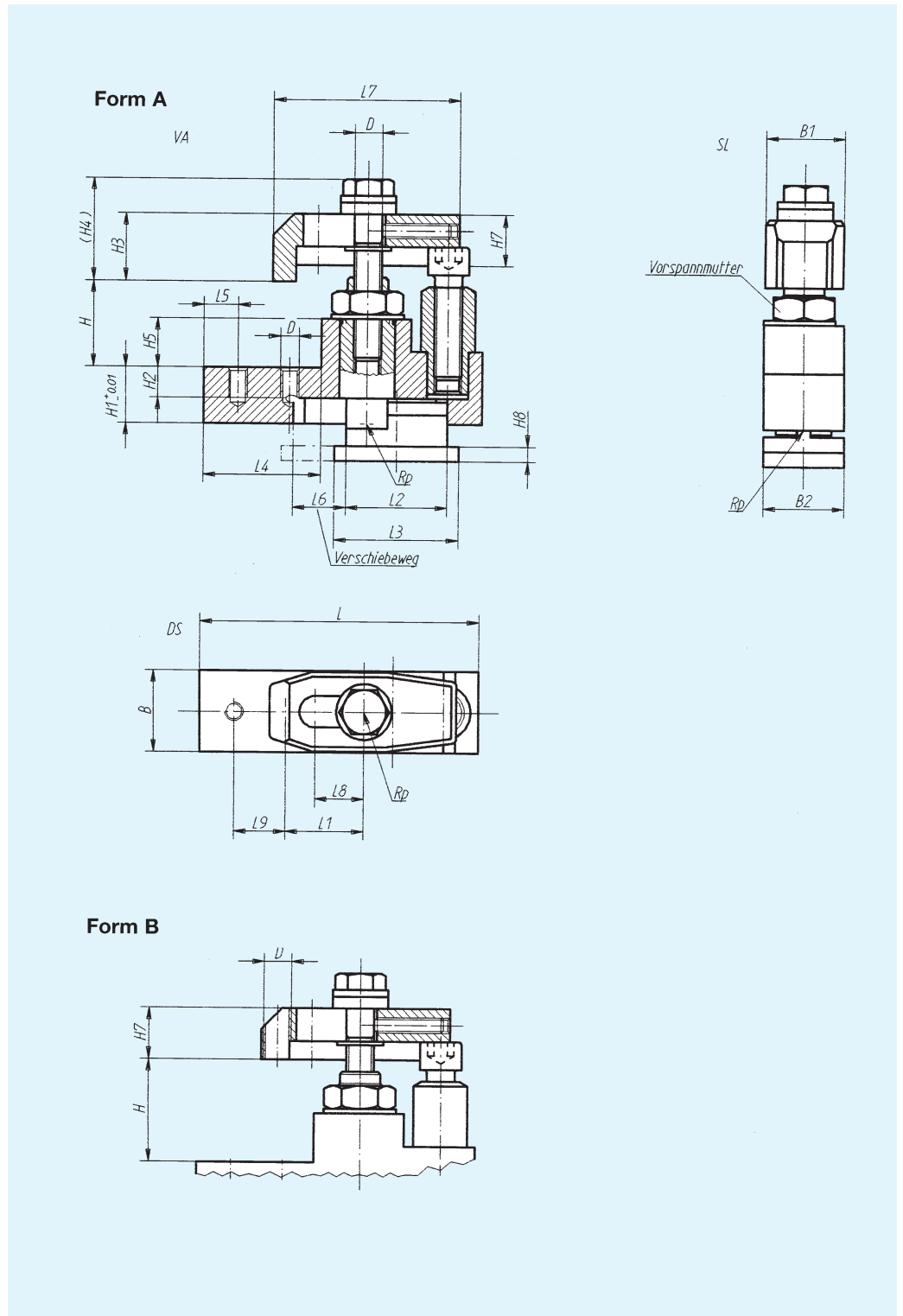
Claw of high-performance aluminium, other components made of steel, lock screw property class 8.8.

Finish:

Claw with a heavy-duty elox finish, steel components bronzed, base carbo-nitrided, support and fitting surfaces ground.

Note:

Mono fix long clamping elements have been designed for a direct fit into a threaded or grid borehole. The lock nut serves to keep elements in the chosen positions. The threaded borehole in the support surface enables users to fit support elements such as soft supports, clamping points, pendulum supports, etc. The two threaded boreholes are for use with the short and long claws, respectively.



Technical data for mono clamping element, long

Order number Form A	Order number Form B	D	L	L ₁	L ₂	L ₃	L ₄	L ₅	L ₆	L ₇	L ₈	L ₉	B	B ₁	B ₂	H clamping range		H ₁	H ₂	H ₃	H ₄	H ₅	H ₇	H ₈	Approx. weight kg
																Form A	Form B								
5000-0112	5000-0112B	12	120	34	44	54	54	15	24	82	22	22	35	34	35	33-58	39-64	24	13	28	45	21	22	6.5	1.600
5000-0116	5000-0116B	16	146	42	54	68	61	18	29	107	26	24	45	45	45	40-80	47-87	30	18	33	54	25	26	9	3.150

Specimen order: Mono clamping element, long Form A 5000-0112

M8 and M20 on request

K-System 5000

Mono fix clamping element



Material:

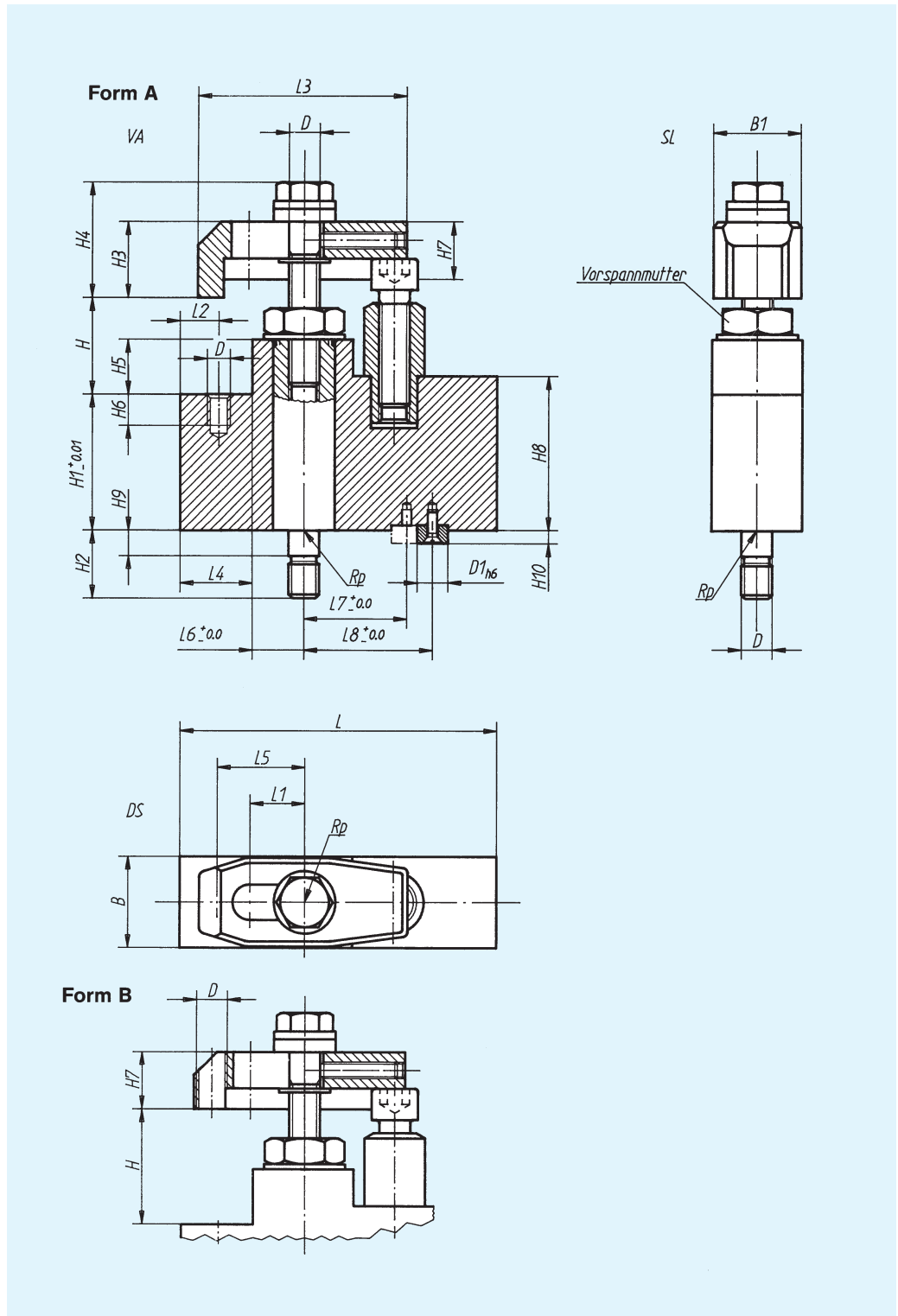
Claw made of high-performance aluminum, other components made of steel, lock screw property class 8.8.

Finish:

Claw with a heavy-duty elox finish, steel components bronzed, base carbonitrided, support and fitting surfaces ground.

Note:

Mono fix clamping elements have been designed for a direct fit into a threaded or grid borehole. The lock nut serves to keep elements in the chosen positions. The threaded borehole in the support surface enables users to fit support elements such as soft supports, clamping points, pendulum supports, etc.



Technical data for mono fix clamping element

Order number Form A	Order number Form B	D		D ₁	L	L ₁	L ₂	L ₃	L ₄	L ₅	L ₆	L ₇	L ₈	B	B ₁	H clamping range		H ₁	H ₂	H ₃	H ₄	H ₅	H ₆	H ₇	H ₈	H ₉	H ₁₀	Approx. weight kg
		Thread	Fitting-Ø _{h6}													Form A	Form B											
5000-0512	5000-0512B	M12	12	12	108	22	15	83	29	34	20	40	50	35	34	33-53	39-59	52	28	28	45	21	20	25	54	8	8	2.120
5000-0516	5000-0516B	M16	16	16	121	26	18	107	36	42	24	-	50	45	45	42-68	49-75	65	38	33	54	25	20	30	75	12	8	3.980

Specimen order: Mono fix clamping element Form A 5000-0512

M8 and M20 on request

K-System 5000

Mono fix clamping element, long



Material:

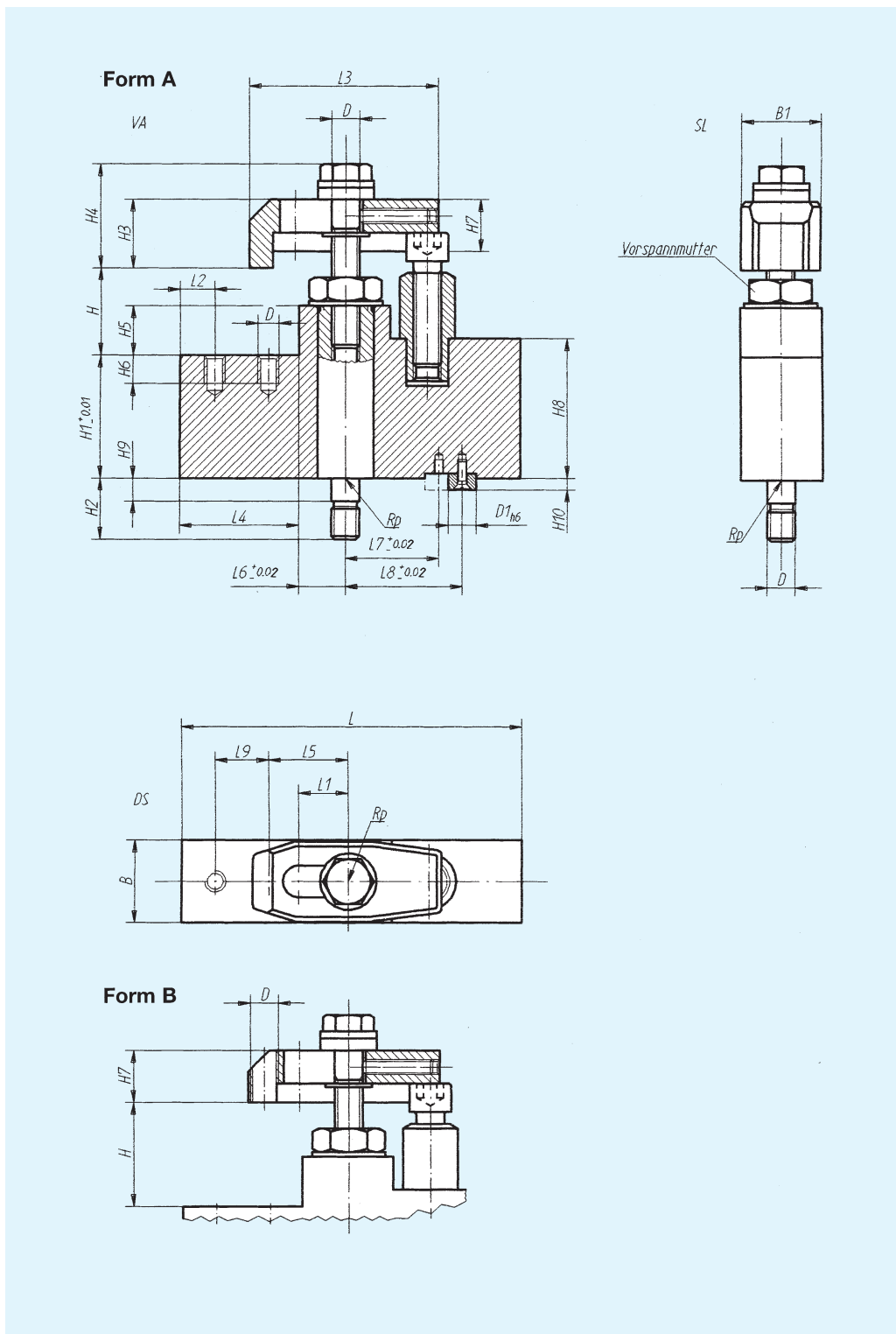
Claw of high-performance aluminium, other components made of steel, lock screw property class 8.8.

Finish:

Claw with a heavy-duty elox finish, steel components bronzed, base carbonitrided, support and fitting surfaces ground.

Note:

Mono fix long clamping elements have been designed for a direct fit into a threaded or grid borehole. The lock nut serves to keep elements in the chosen positions. The threaded borehole in the support surface enables users to fit support elements such as soft supports, clamping points, pendulum supports, etc. The two threaded boreholes are for use with the short and long claws, respectively.



Technical data for mono fix clamping element, long

Order number Form A	Order number Form B	D		D ₁	L	L ₁	L ₂	L ₃	L ₄	L ₅	L ₆	L ₇	L ₈	L ₉	B	B ₁	H clamping range		H ₁	H ₂	H ₃	H ₄	H ₅	H ₆	H ₇	H ₈	H ₉	H ₁₀	Approx. weight kg
		Thread	Fitting-Ø h6														Form A	Form B											
5000-0612A	5000-0612B	M12	12	12	123	22	15	82	54	34	20	40	50	22	35	34	33-53	39-59	52	28	28	45	21	20	22	59	8	8	2.280
5000-0616A	5000-0616B	M16	16	16	146	27	18	107	61	42	24	-	50	24	45	45	42-68	49-75	65	38	33	54	25	20	26	75	12	8	4.160

Specimen order: Mono fix clamping element, long Form A 5000-0612

M8 and M20 on request

K-System 5000

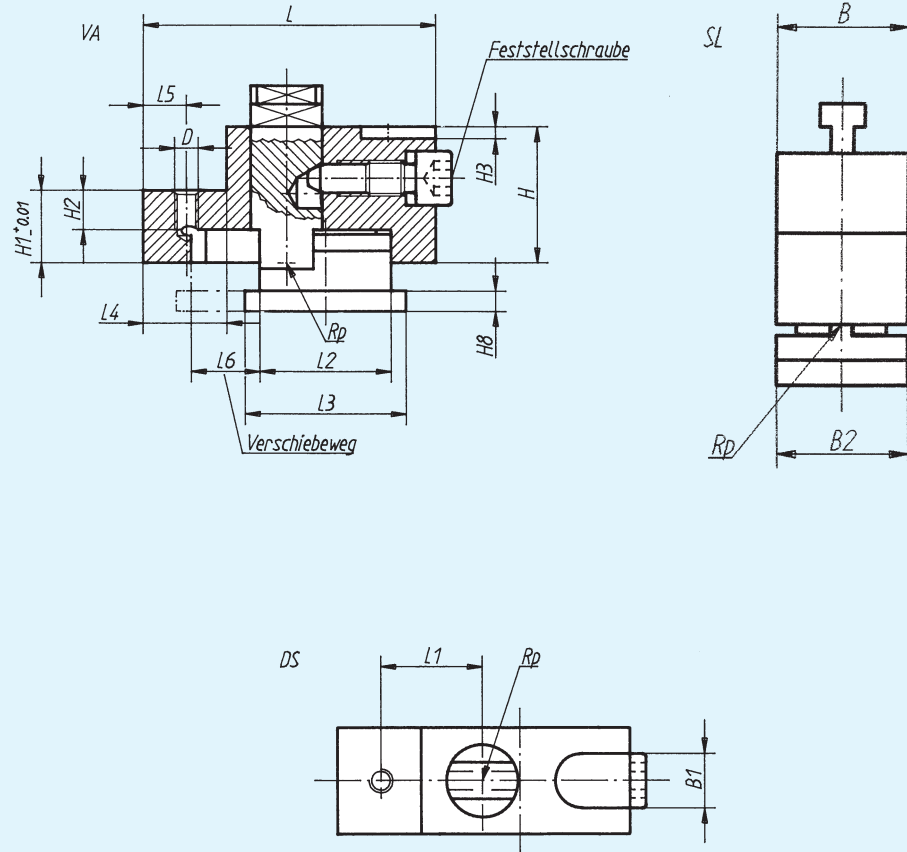
Modular basic element



Material:
Steel.

Finish:
Bronzed, base carbonitrided, support and fitting surfaces ground.

Note:
Modular basic elements are used in conjunction with base plates or horizontal adapters to form the basic component of fixtures that may consist of clamping jaws, raisers and supports. They have been designed for a direct fit into a threaded or grid borehole. The threaded borehole in the support surface enables users to fit support elements such as soft supports, clamping points, pendulum supports, etc. The T-slot design developed for the K-System 5000 (patent pending) enables users to place and clamp a workpiece in any positions within a range of 50 x 50mm from the same point of reference. The lock screw serves to keep elements in the chosen positions, enabling users to adjust the soft supports.



Technical data for modular basic element

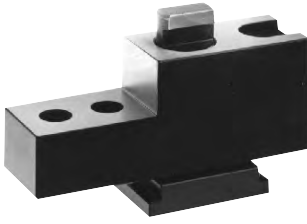
Order number	D	L	L ₁	L ₂	L ₃	L ₄	L ₅	L ₆	B	B ₁	B ₂	H	H ₁	H ₂	H ₃	H ₈	Approx. weight kg
5000-1012	M12	98	34	44	54	29	15	24	35	18	35	45	24	13	4	6.5	1.150
5000-1016	M16	121	42	54	68	36	18	29	45	22	45	55	30	18	4	9	2.240

Specimen order: Modular basic element 5000-1012

M8 and M20 on request

K-System 5000

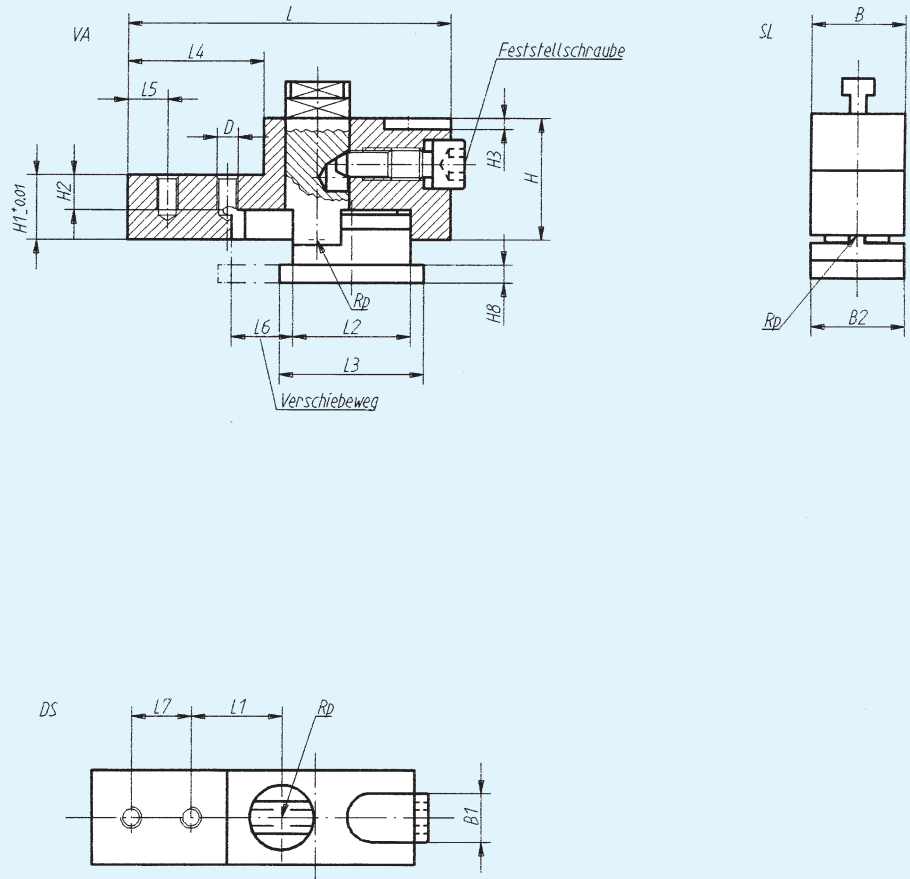
Modular basic element, long



Material:
Steel.

Finish:
Bronzed, base carbonitrided, support and fitting surfaces ground.

Note:
Modular fix basic elements have been designed for a direct fit into a threaded or grid borehole. They form the basic components of fixtures that may consist of clamping jaws, raisers and supports. The threaded borehole in the support surface enables users to fit support elements such as soft supports, clamping points, pendulum supports, etc. The two threaded boreholes are meant for use with clamping units and extended clamping units respectively.



Technical data for modular basic element, long

Order number	D	L	L ₁	L ₂	L ₃	L ₄	L ₅	L ₆	L ₇	B	B ₁	B ₂	H	H ₁	H ₂	H ₃	H ₈	Approx. weight kg
5000-1112	M12	123	34	44	54	54	15	24	22	35	18	35	45	24	13	4	6.5	1.380
5000-1116	M16	146	42	54	68	61	18	29	24	45	22	45	55	30	18	4	9	2.450

Specimen order: Modular basic element, long 5000-1112

M8 and M20 on request

K-System 5000

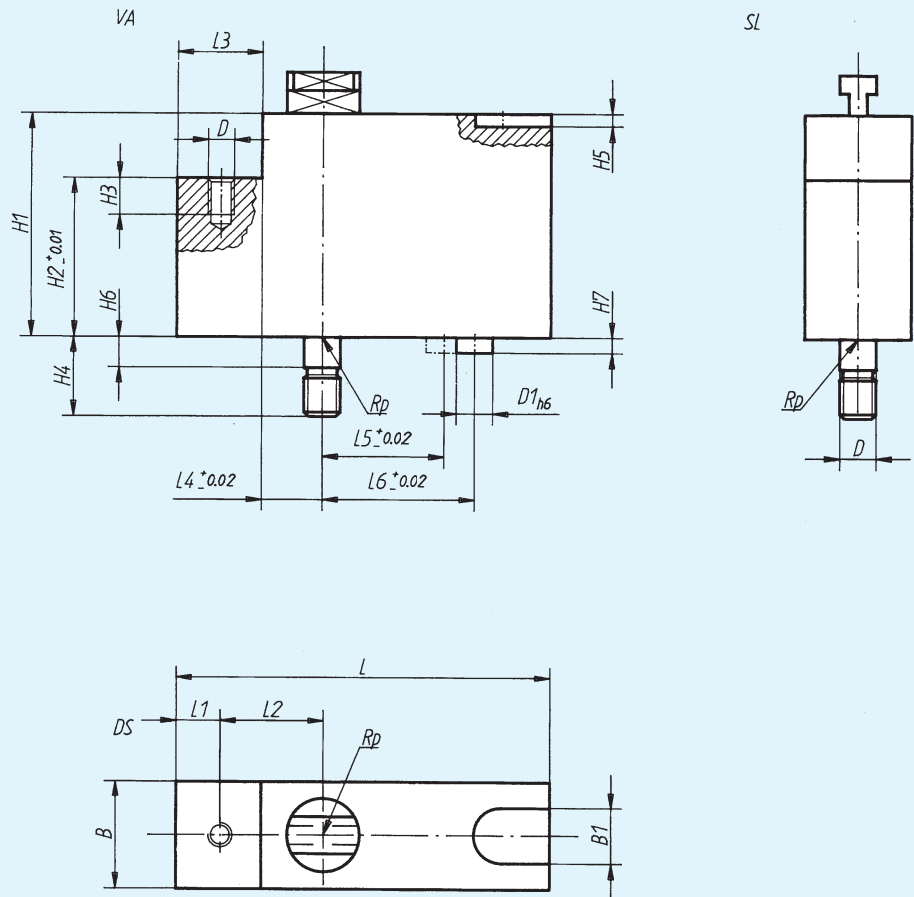
Modular fix basic element



Material:
Steel.

Finish:
Bronzed, base carbo-nitrited, support and fitting surfaces ground.

Note:
Modular fix basic elements have been designed for a direct fit into a threaded or grid borehole. They form the basic component of fixtures that may consist of clamping jaws, raisers and supports. The threaded borehole in the support surface enables users to fit support elements such as soft supports, clamping points, pendulum supports, etc.



Technical data for modular fix basic element

Order number	D		D ₁	L	L ₁	L ₂	L ₃	L ₄	L ₅	L ₆	B	B ₁	H ₁	H ₂	H ₃	H ₄	H ₅	H ₆	H ₇	Approx. weight kg
	Thread	Fitting-Ø h6																		
5000-1512	M12	12	12	108	15	34	29	20	40	50	35	18	73	52	20	30	4	10	7	1.950
5000-1516	M16	16	16	121	18	42	36	24	-	50	45	22	90	65	20	40	4	15	8	3.500

Specimen order: Modular fix basic element 5000-1512

M8 and M20 on request

K-System 5000

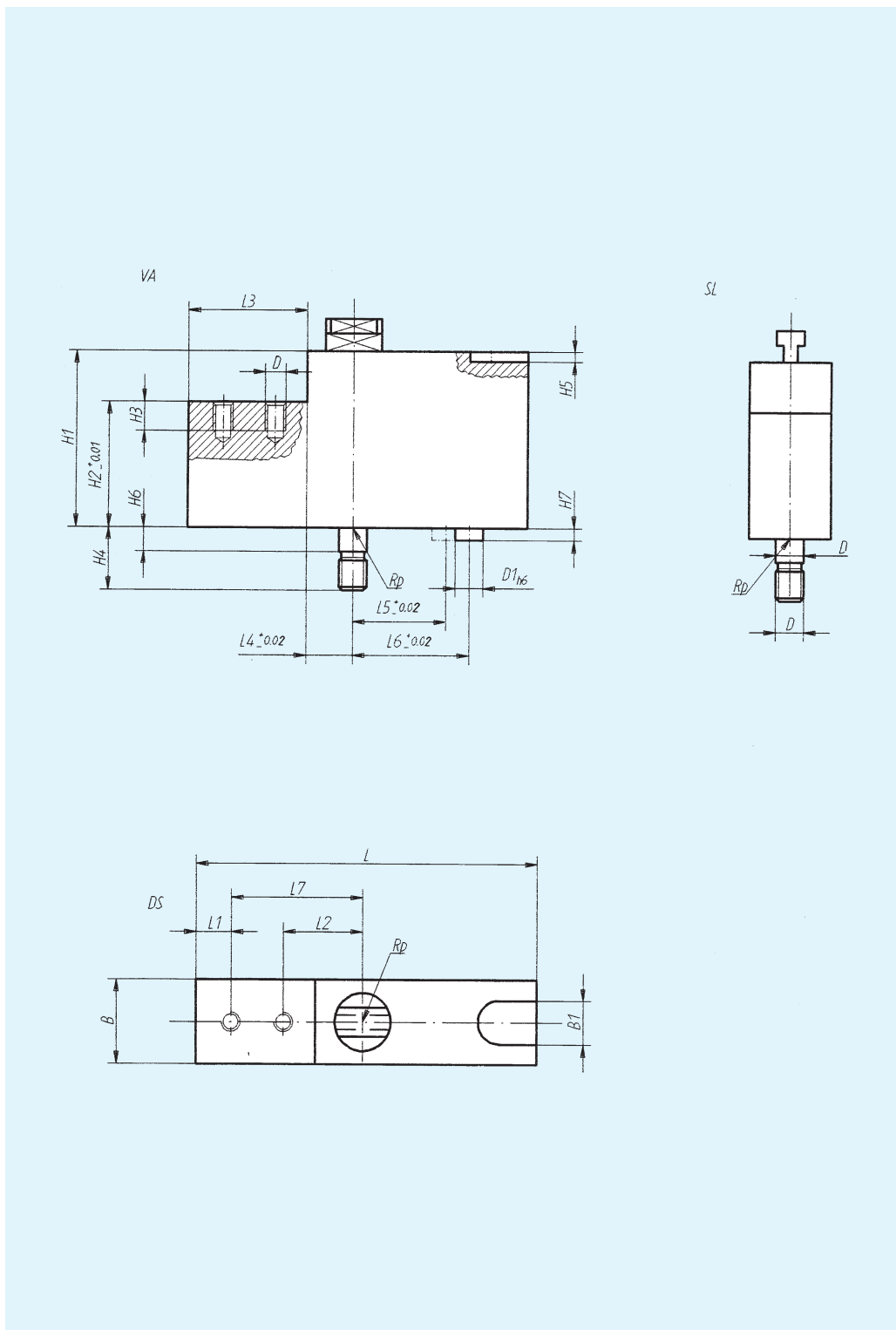
Modular fix basic element, long



Material:
Steel.

Finish:
Bronzed, base carbonitrided, support and fitting surfaces ground.

Note:
Modular fix basic elements have been designed for a direct fit into a threaded or grid borehole. They form the basic component of fixtures that may consist of clamping jaws, raisers and supports. The threaded borehole in the support surface enables users to fit support elements such as soft supports, clamping points, pendulum supports, etc. The two threaded boreholes are meant for use with clamping units and extended clamping units respectively.



Technical data for modular fix basic element, long

Order number	D		D ₁	L	L ₁	L ₂	L ₃	L ₄	L ₅	L ₆	L ₇	B	B ₁	H ₁	H ₂	H ₃	H ₄	H ₅	H ₆	H ₇	Approx. weight kg
	Thread	Fitting-Ø h 6																			
5000-1612	M12	12	12	130	15	34	29	20	40	50	56	35	18	73	52	20	30	4	10	7	2.200
5000-1616	M16	16	16	146	18	42	36	24	-	50	66	45	22	90	65	20	40	4	15	8	4.040

Specimen order: Modular fix basic element, long 5000-1612

M8 and M20 on request

K-System 5000

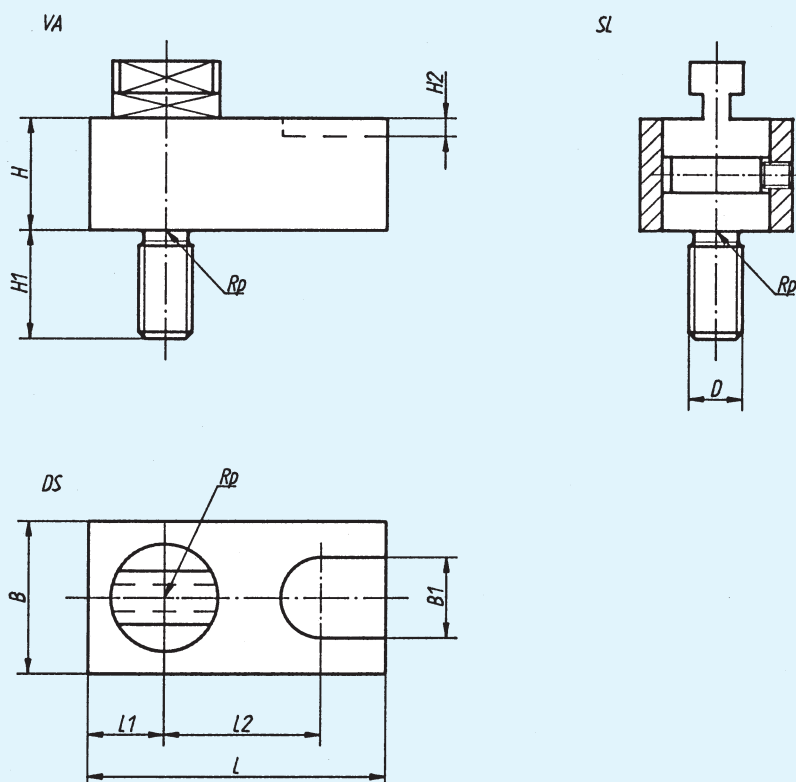
Basic element



Material:
Steel.

Finish:
Bronzed.

Note:
Basic elements are components used to build fixtures in conjunction with raisers and supports (similarly to diagram 1, page 4).



Technical data for basic element

Order number	D	L	L ₁	L ₂	B	B ₁	H	H ₁	H ₂	Approx. weight kg
5000-1712025	M12	69	20	35	35	18	25	24	4	0.460
5000-1716030	M16	84	22	42	45	22	30	32	4	0.910

Specimen order: Basic element 5000-1712025

M8 and M20 on request

K-System 5000

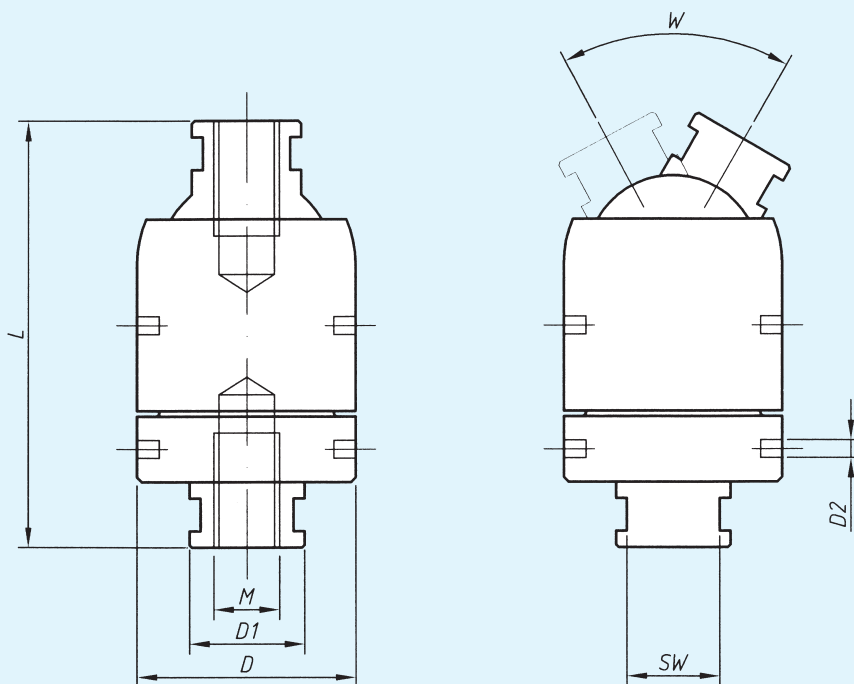
Ball element



Material:
Steel.

Finish:
Bronzed.

Note:
The ball element is a module with which workpieces can be clamped at any angle.



Technical data for ball element

Order number	D	D ₁	D ₂	L	M	SW	W	Approx. weight kg
5000-1912	40	21	3.2	78	M12	17	30°	0.480
5000-1916	50	26	4.2	98	M16	21	30°	0.760

Specimen order: Ball element 5000-1912

K-System 5000 Clamping unit



Material:

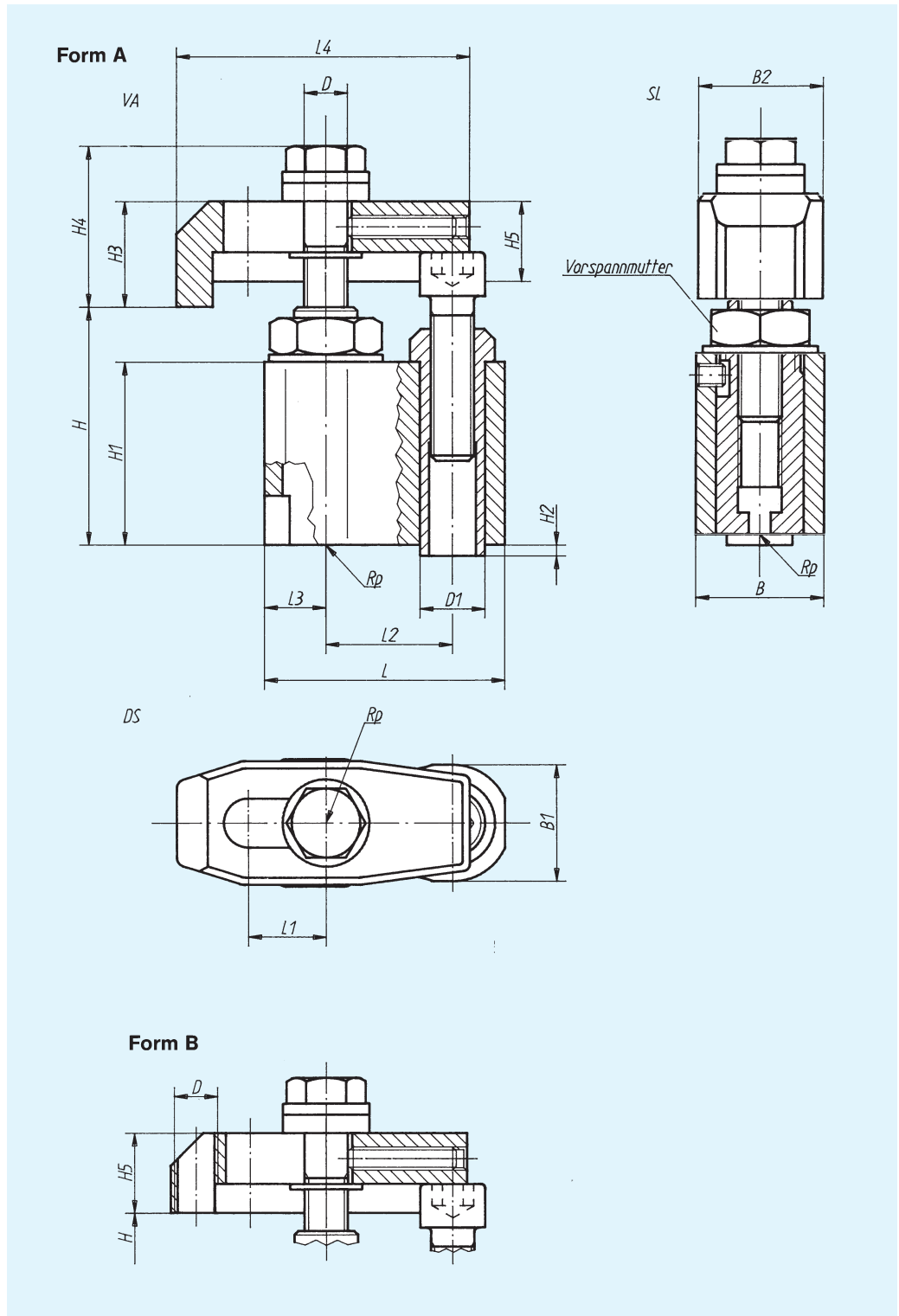
Base and claw made of high-performance aluminum, other components made of steel, lock screw property class 8.8.

Finish:

Claw with a heavy-duty elox finish, steel components bronzed.

Note:

Clamping elements are components used to build fixtures in conjunction with modular basic elements, raisers or supports. The lock nut serves to keep elements in the chosen positions. The movement range of the claw can be limited by a lock screw.



Technical data for clamping unit

Order number Form A	Order number Form B	D	D ₁	L	L ₁	L ₂	L ₃	L ₄	B	B ₁	B ₂	H clamping range		H ₁	H ₂	H ₃	H ₄	H ₅	Approx. weight kg
												Form A	Form B						
5000-2012	5000-2012B	M12	18	66.5	22	35	17	82	34	31	34	57-85	63-91	50	4	28	45	22	0.700
5000-2016	5000-2016B	M16	22	82.5	27	43	21.5	107	44	39	45	65-102	72-109	50	4	33	54	26	1.320

Specimen order: Clamping unit Form A 5000-2012

M8 and M20 on request

K-System 5000

Extended clamping unit



Material:

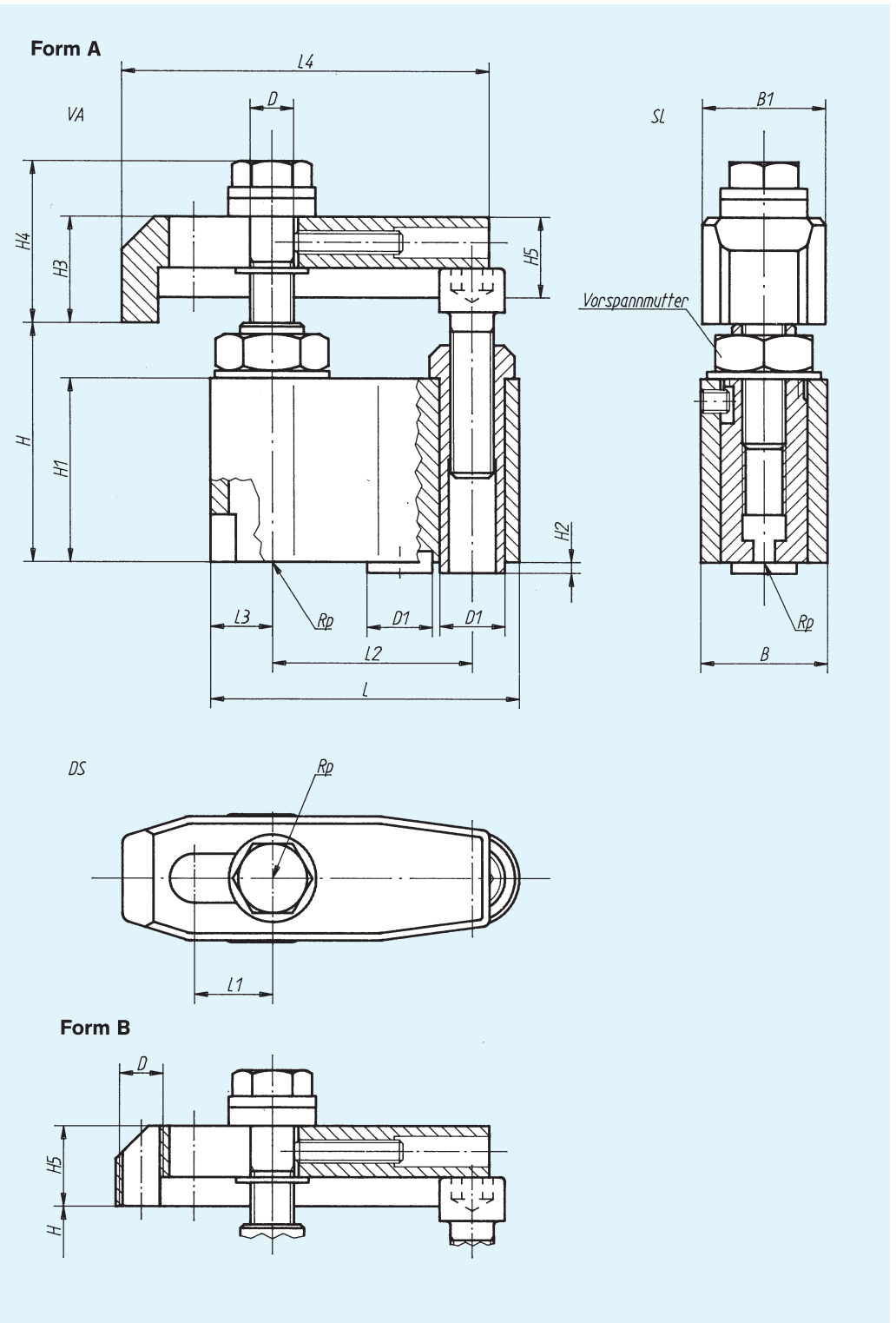
Base and claw made of high-performance aluminum, other components made of steel, lock screw property class 8.8.

Finish:

Claw with a heavy-duty elox finish, steel components bronzed.

Note:

Extended clamping elements are components used to build fixtures in conjunction with modular basic elements, raisers or supports. The lock nut serves to keep elements in the chosen positions. The movement range of the claw can be limited by a lock screw.



Technical data for extended clamping unit

Order number Form A	Order number Form B	D	D ₁	L	L ₁	L ₂	L ₃	L ₄	B	B ₁	H clamping range		H ₁	H ₂	H ₃	H ₄	H ₅	Approx. weight kg
											Form A	Form B						
5000-2512	5000-2512B	M12	18	87	42	57.5	17	130	34	25	58-88	64-94	50	4	28	45	21	0.840
5000-2516	5000-2516B	M16	22	104	48	68	21.5	147	44	45	63-100	72-109	50	4	33	54	26	1.490

Specimen order: Extended clamping unit Form A 5000-2512

M8 and M20 on request

K-System 5000 Raiser



Material:

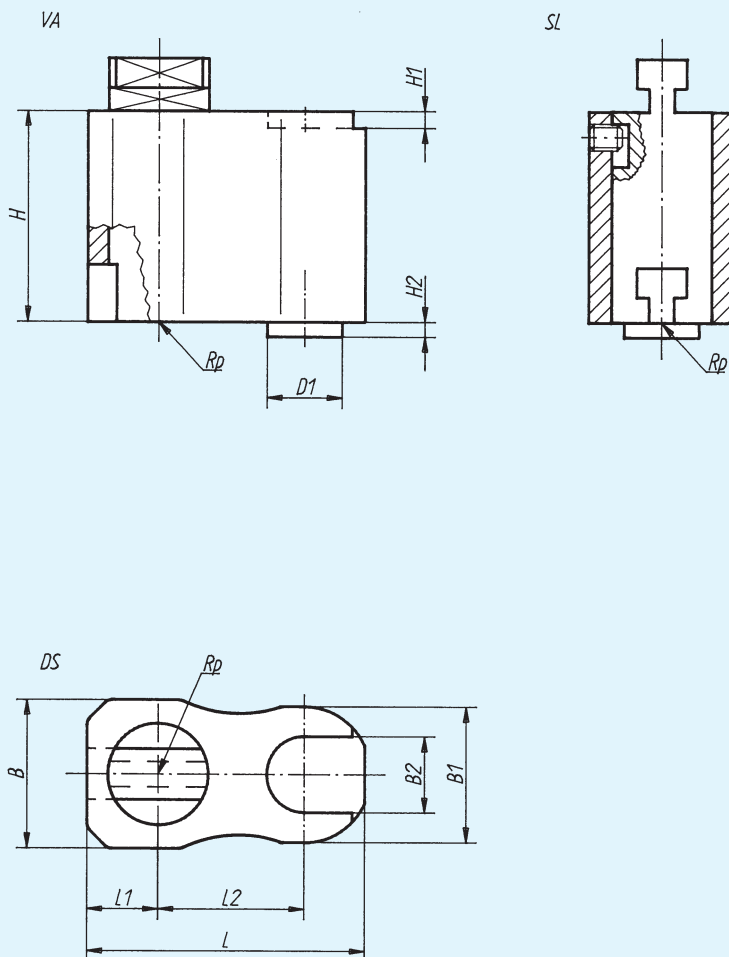
Base made of high-performance aluminum, other components made of steel.

Finish:

Base with a heavy-duty elox finish, steel components bronzed.

Note:

Raisers are components used to build fixtures in conjunction with modular basic elements, clamping units or supports.



Technical data for raiser

Order number	D ₁	L	L ₁	L ₂	B	B ₁	B ₂	H	H ₁	H ₂	Approx. weight kg
5000-3012025	18	66.5	17	35	34	31	18	25	4	4	0.195
5000-3012050	18	66.5	17	35	34	31	18	50	4	4	0.390
5000-3012100	18	66.5	17	35	34	31	18	100	4	4	0.780
5000-3016025	22	82.5	21.5	43	44	39	22	25	4	4	0.310
5000-3016050	22	82.5	21.5	43	44	39	22	50	4	4	0.620
5000-3016100	22	82.5	21.5	43	44	39	22	100	4	4	1.235
5000-3016300	22	82.5	21.5	43	44	39	22	300	4	4	2.950

Specimen order: Raiser 5000-3012025

M8 and M20 on request

K-System Notes

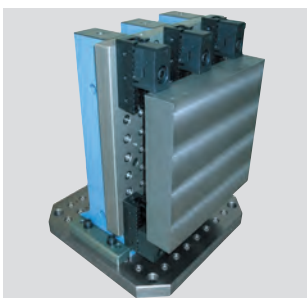
K-System 5001



**Modular breadboard system
Breadboard cube / Double angle section**

Using state-of-the-art machining centres allows us to meet almost all customer requirements. We tailor our breadboard cubes and breadboards precisely to your needs.

K-System 5002



Modular multiple clamp

With the option of using various clamping jaws. Ask us for further documentation.

K-System 5000 Support



Material:

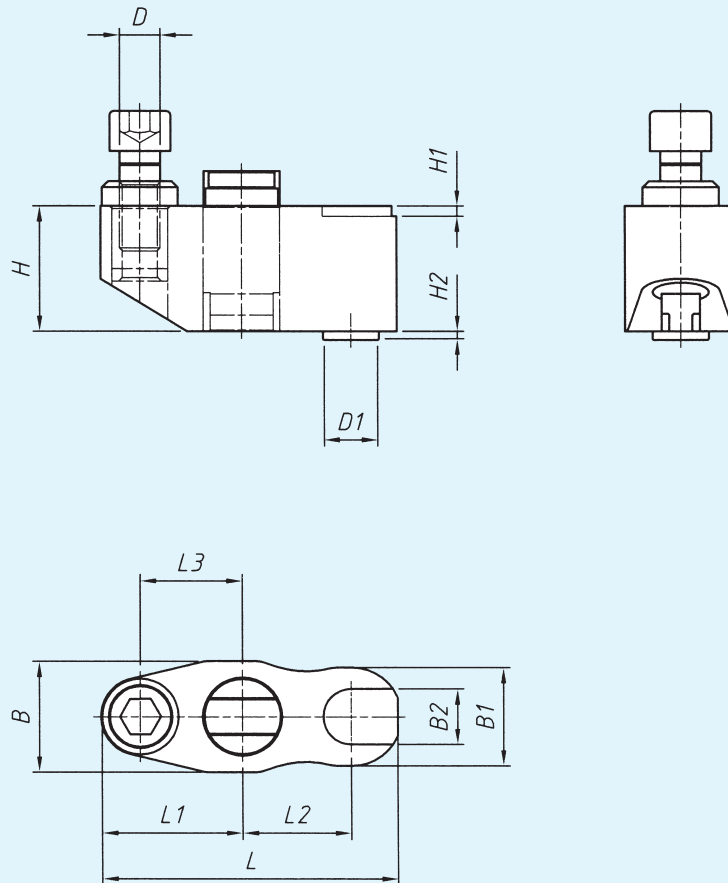
Base made of high-performance aluminum, other components made of steel.

Finish:

Base with a heavy-duty elox finish, steel components bronzed.

Note:

Supports are components used to build fixtures in conjunction with modular basic elements, clamping units or raisers.



Technical data for support

Order number	D	D ₁	L	L ₁	L ₂	L ₃	B	B ₁	B ₂	H	H ₁	H ₂	Approx. weight kg
5000-3512	M12	18	97	47	35	34	34	31	18	50	4	4	0.560
5000-3516	M16	22	119	58	42	43	44	39	22	50	4	4	0.890

Specimen order: Support 5000-3512

M8 and M20 on request

K-System 5000 Support, long



Material:

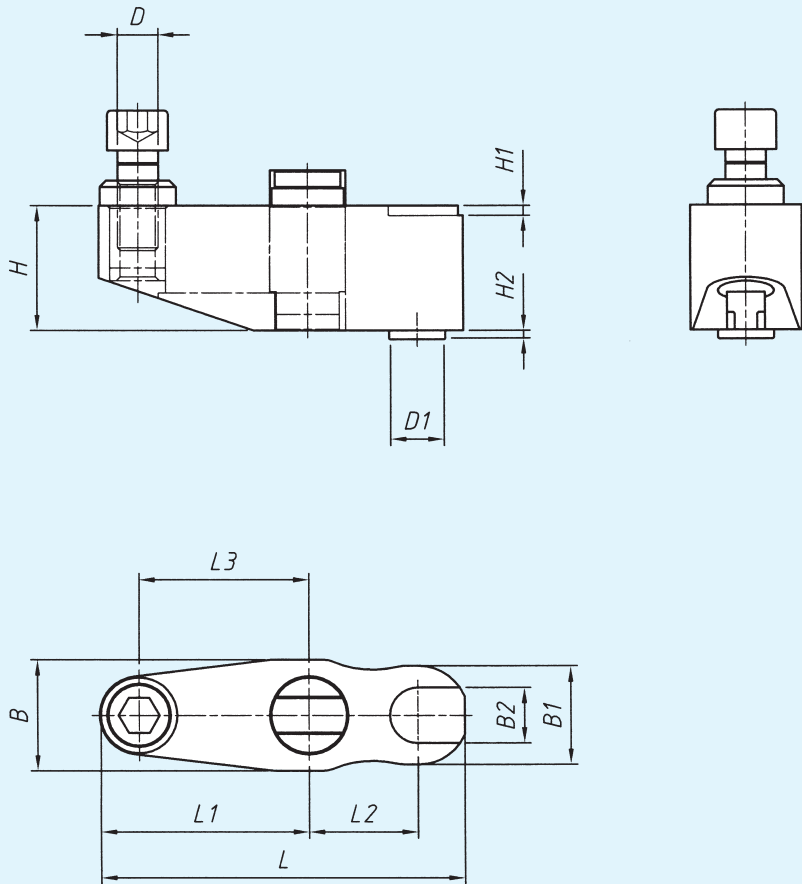
Base made of high-performance aluminum, other components made of steel.

Finish:

Base with a heavy-duty elox finish, steel components bronzed.

Note:

Supports are components used to build fixtures in conjunction with modular basic elements, clamping units or raisers.



Technical data for support, long

Order number	D	D ₁	L	L ₁	L ₂	L ₃	B	B ₁	B ₂	H	H ₁	H ₂	Approx. weight kg
5000-3612	M12	18	118	68	35	59	34	31	18	50	4	4	0.700
5000-3616	M16	22	144	82	42	67	44	39	22	50	4	4	1.080

Specimen order: Support, long 5000-3616

M8 and M20 on request

K-System 5000

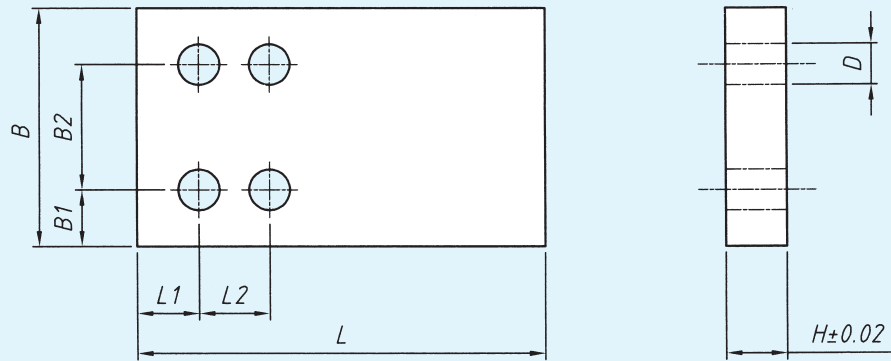
Base plate documentation



Material:
High-performance aluminum.

Finish:
Heavy-duty elox finish.

Note:
The intermediate plate is fitted beneath a baseplate to increase its height.



Technical data for base plate documentation

Order number	D ₁	L	L ₁	L ₂	B	B ₁	B ₂	H	Approx. weight kg
5000-3912045__	12.3	130	16	25	45	22.5	-	6-12-24-48	0.650-0.830
5000-3912085__	12.3	130	16	25	85	17.5	50	6-12-24-48	0.120-1.460
5000-3916055__	16.3	161	24.5	28	55	27.5	-	6-12-24-48	0.150-1.010
5000-3916095__	16.3	161	24.5	28	95	22.5	50	6-12-24-48	0.220-1.960

Specimen order: Base plate documentation 5000-391204506

M8 and M20 on request

K-System 5000

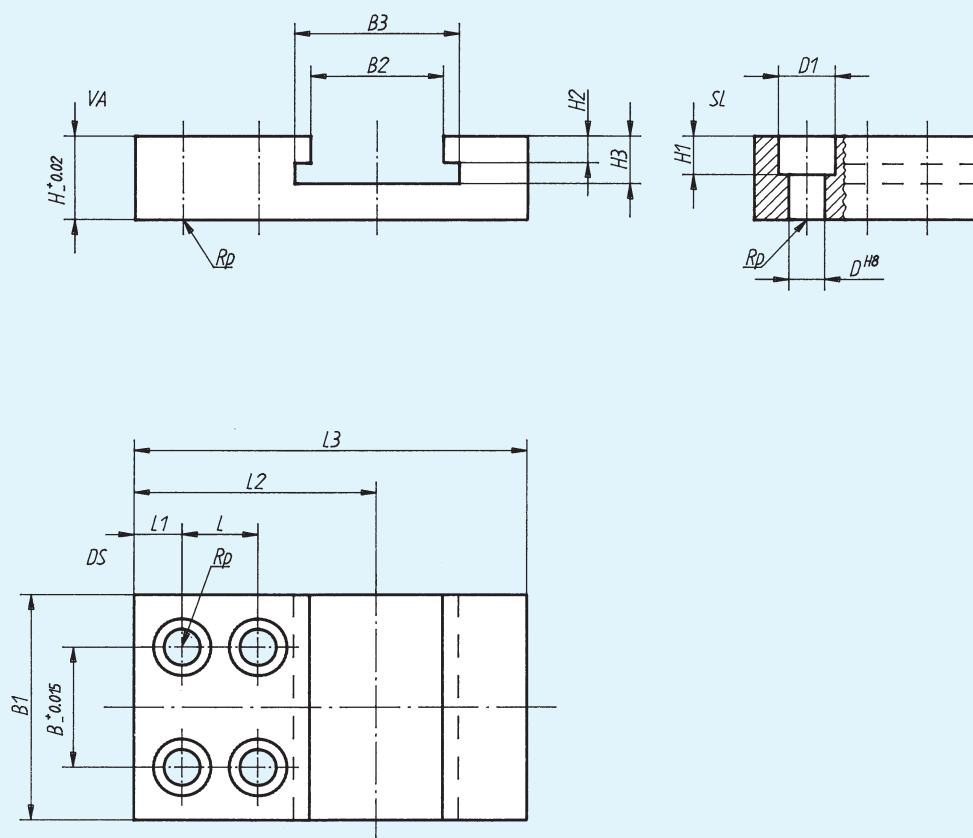
Base plate



Material:
High-performance aluminum.

Finish:
Heavy-duty elox finish.

Note:
Axial distances L and B can be changed to a different grid or adapted to T-slot tables on request. Base plates are carriers for mono clamping elements, modular basic elements and lateral clamps.



Technical data for base plate

Order number	D	D ₁	L	L ₁	L ₂	L ₃	B	B ₁	B ₂	B ₃	H	H ₁	H ₂	H ₃	Approx. weight kg
5000-4012045	12	19	25	16	83	133	-	45	44	54.5	28	13	9	16	0.330
5000-4012085	12	19	25	16	83	133	50	85	44	54.5	28	13	9	16	0.615
5000-4012150	12	19	25	16	83	133	2 x 50	150	44	54.5	28	13	9	16	1.110
5000-4016055	16	25	28	24.5	106	161	-	55	54	68	35	17	9	18	0.630
5000-4016095	16	25	28	24.5	106	161	50	95	54	68	35	17	9	18	1.060
5000-4016150	16	25	28	24.5	106	161	2 x 50	150	54	68	35	17	9	18	1.700

Specimen order: Base plate 5000-4012045

M8 and M20 on request

K-System 5000

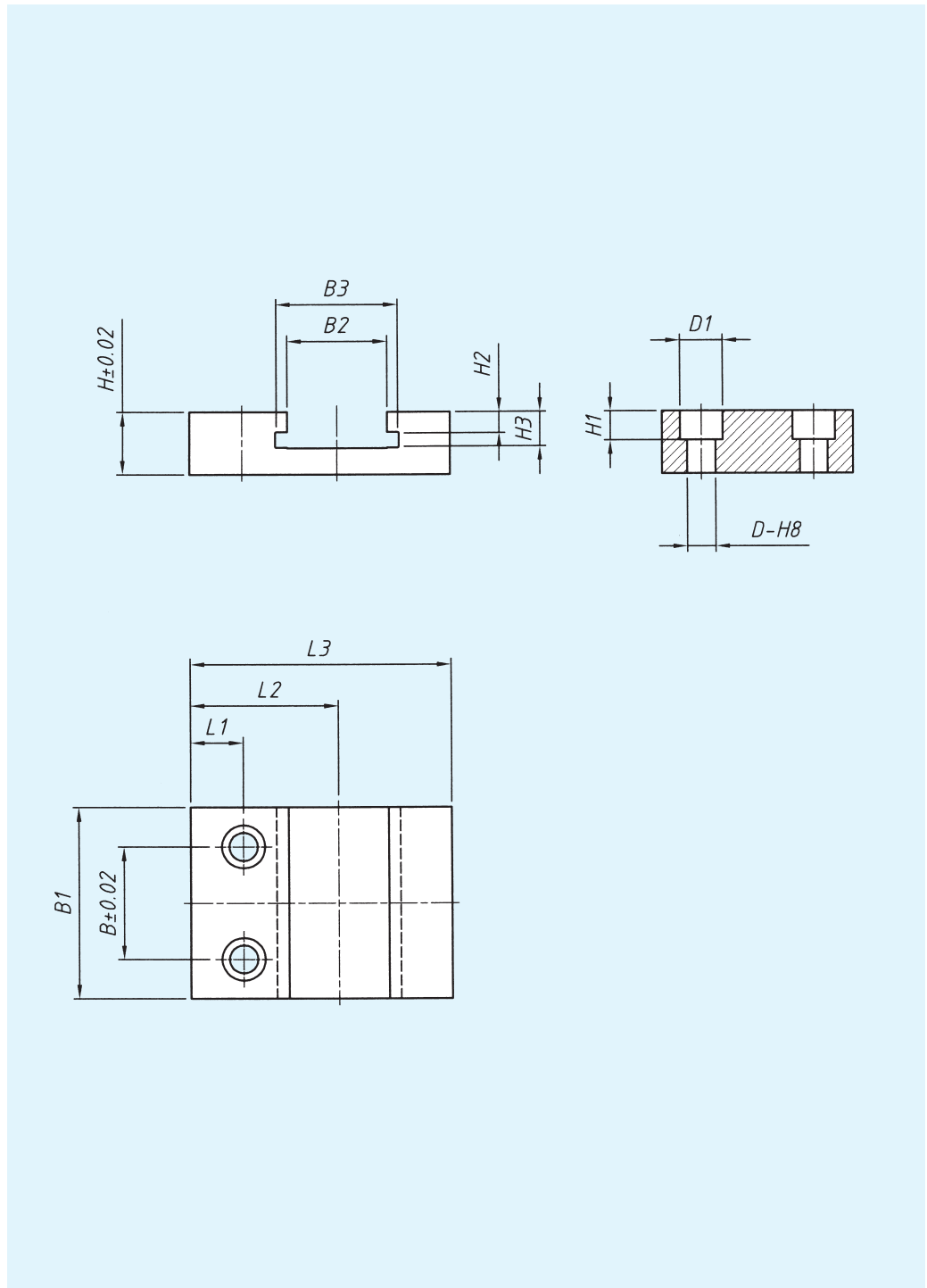
Short base plate



Material:
High-performance aluminum.

Finish:
Heavy-duty elox finish.

Note:
The intermediate plate is fitted beneath a base plate to increase its height.



Technical data for short base plate

Order number	D	D ₁	L ₁	L ₂	L ₃	B	B ₁	B ₂	B ₃	H	H ₁	H ₂	H ₃	Approx. weight kg
5000-4112045	12	19	23	65	115	-	45	44	54.5	28	13	9	16	0.280
5000-4112085	12	19	23	65	115	50	85	44	54.5	28	13	9	16	0.540
5000-4116055	16	25	24.5	80	125	-	55	54	68	35	17	9	18	0.560
5000-4116095	16	25	24.5	80	125	50	95	54	68	35	17	9	18	0.980

Specimen order: Short base plate 5000-4112045

M8 and M20 on request

K-System 5000

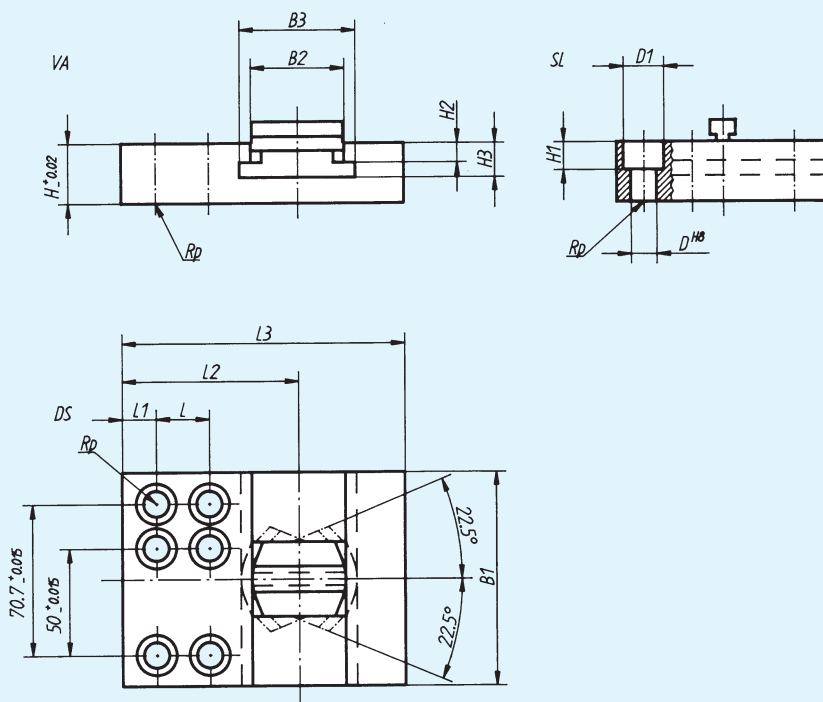
Base plate with rotatable tenon block



Material:
High-performance aluminum.

Finish:
Heavy-duty elox finish.

Note:
This plate can be fitted on a 50mm grid plate on 360° in 8 positions. In conjunction with a tenon block rotatable round 45°, any position round 360° can be chosen.



Technical data for base plate with rotatable tenon block

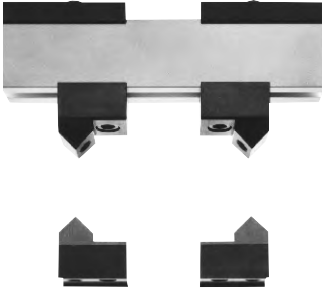
Order number	D	D ₁	L	L ₁	L ₂	L ₃	B ₁	B ₂	B ₃	H	H ₁	H ₂	H ₃	Approx. weight kg
5000-4212	12	19	25	16	83	133	100	44	54.5	28	13	9	16	1.200
5000-4216	16	25	28	27	111.5	165	116	54	68	35	17	9	16	1.800

Specimen order: Base plate with rotatable tenon block 5000-4212

M8 and M20 on request

K-System 5000

Round-clamping set



Material:

Prismatic supports of steel, yoke of high-performance aluminum.

Finish:

Steel bronzed.

Note:

The round-clamping set is an accessory that is eminently suitable for clamping round parts. Its bigclamping range enables it to be used for a wide variety of applications.

It is used in conjunction with elements

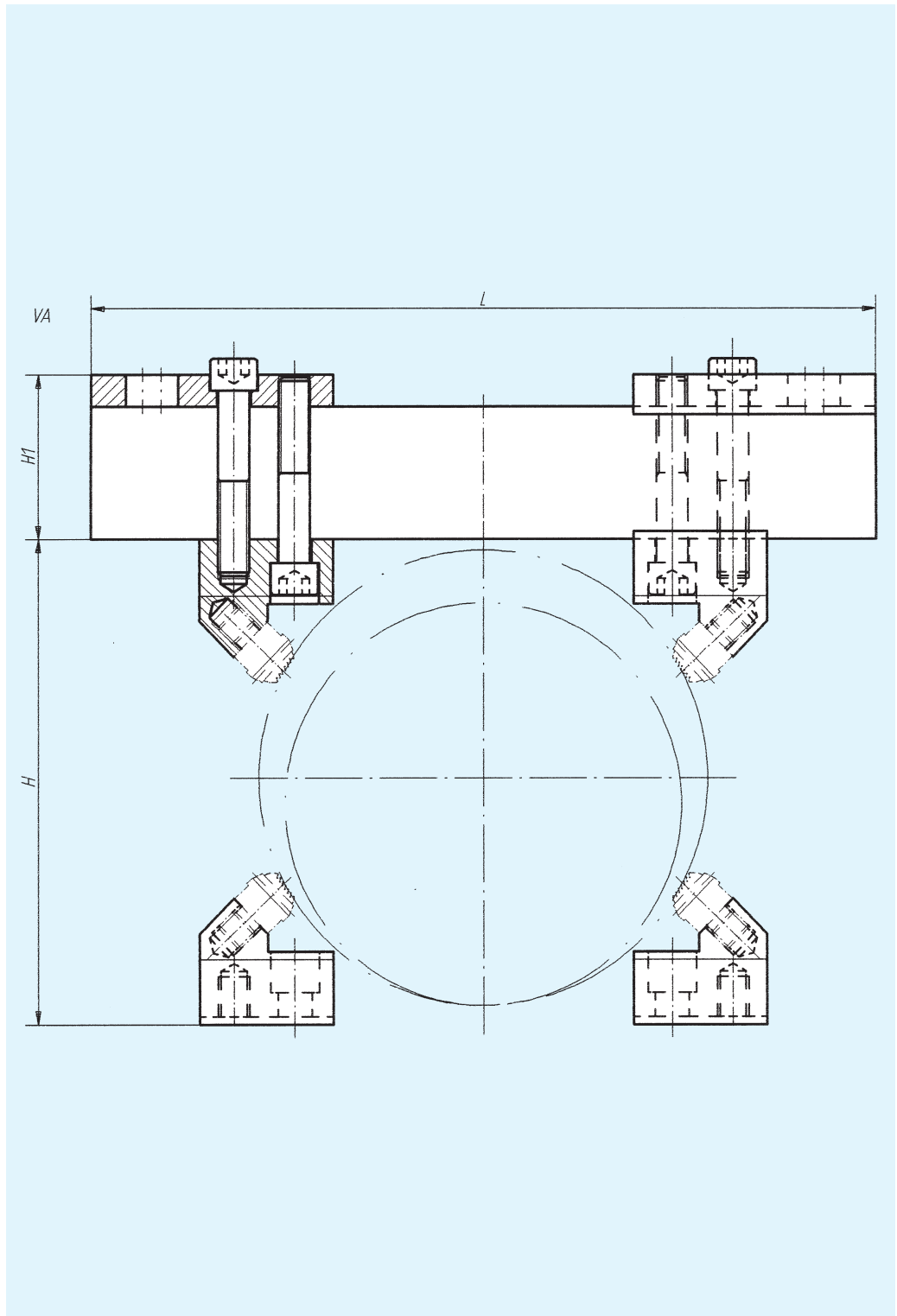
5000-01...

5000-06...

5000-11...

5000-16...

The workpiece is put into the prismatic supports and clamped from above with a yoke that is also fitted with prismatic supports.



Technical data for round-clamping set

Order number	D	L	H*	H ₁	H ₂	Approx. weight kg
5000-4412	M12	600	80	62	80-300	3.800
5000-4416	M16	800	100	78	100-400	8.680

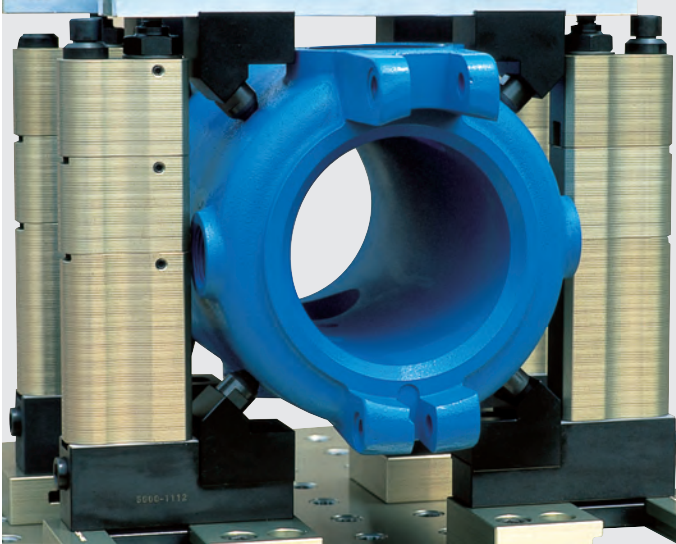
Specimen order: Round-clamping set 5000-4412

*Workpiece diameter plus h

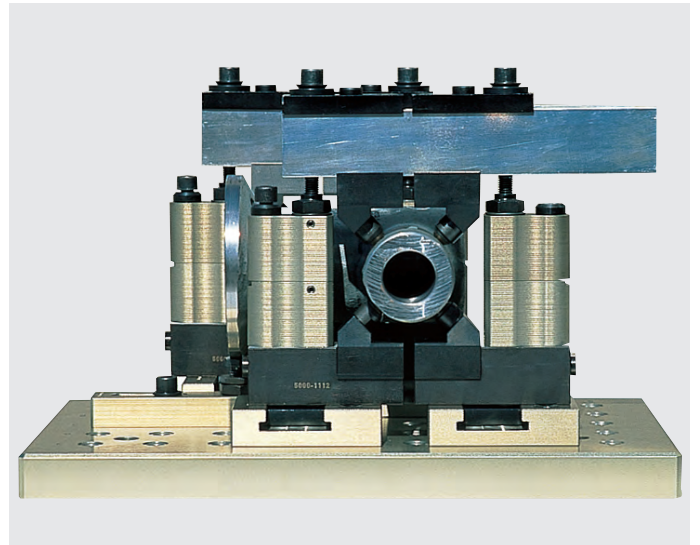
M8 and M20 on request

K-System 5000

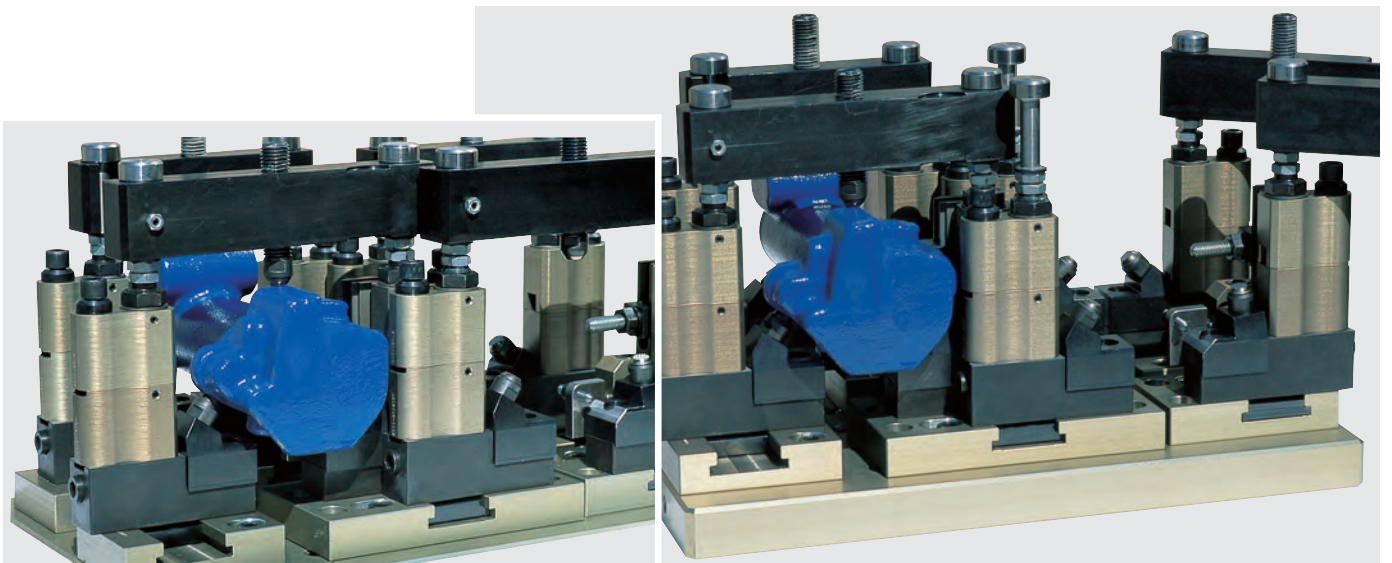
Example applications



Round casting clamped in fixture.



Water valve 3-sided machining.



Chuck for holding 2 round workpieces, special jig.

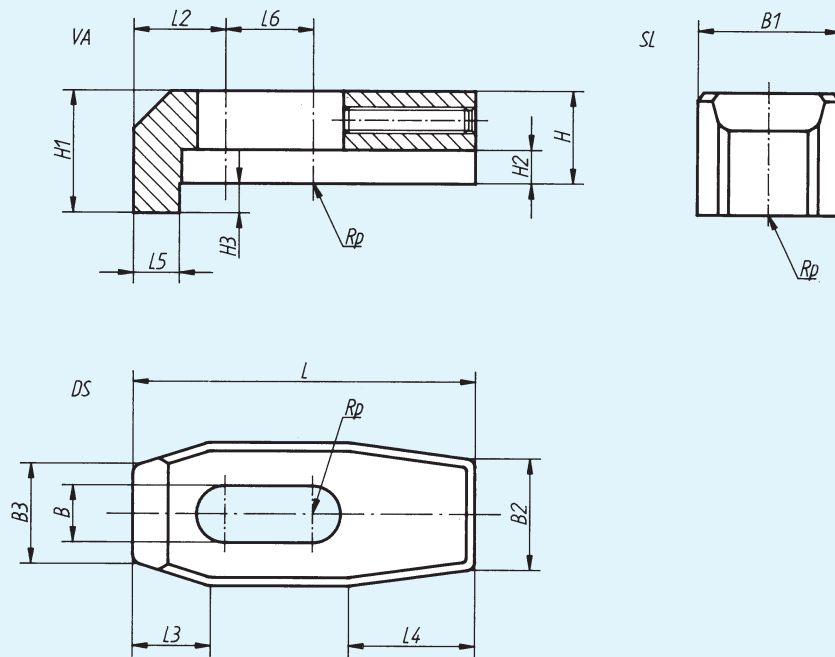
K-System 5000

Movable claw with stop



Material:
High-performance aluminum.

Finish:
Heavy-duty elox finish.



Technical data for movable claw with stop

Order number	L	L ₂	L ₃	L ₄	L ₅	L ₆	B	B ₁	B ₂	B ₃	H	H ₁	H ₂	H ₃	Approx. weight kg
5000-4512083	83	20	17	30	11	22	13	34	27	22	21	28	8	7	0.110
5000-4516110	108	28	18	40	15	26	17	45	32	32	26	33	8	7	0.250

Specimen order: Movable claw with stop 5000-4512083

M8 and M20 on request

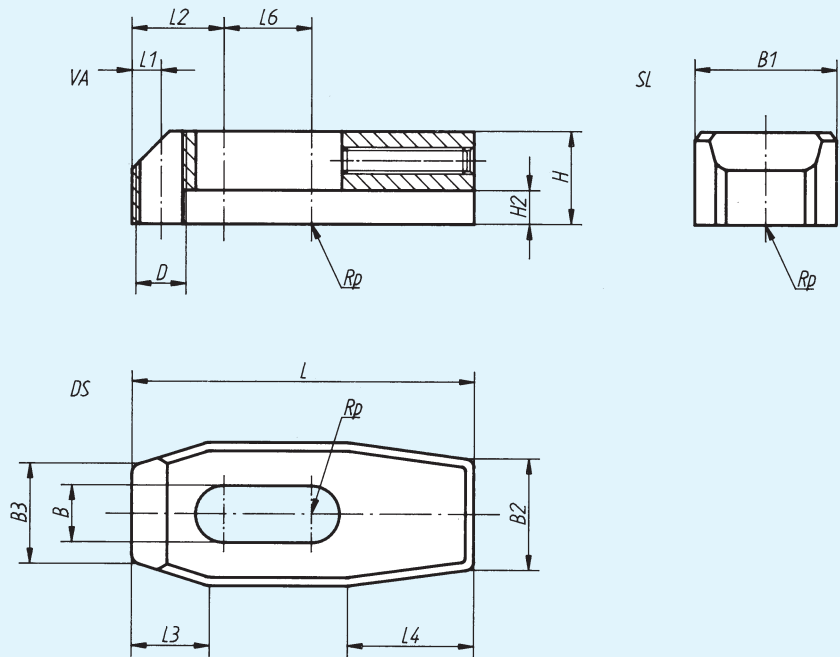
K-System 5000

Movable claw with threaded borehole



Material:
High-performance aluminum.

Finish:
Heavy-duty elox finish.



Technical data for movable claw with threaded borehole

Order number	D	L	L ₁	L ₂	L ₃	L ₄	L ₆	B	B ₁	B ₂	B ₃	H	H ₂	Approx. weight kg
5000-4612083	M12	83	8	22	17	30	22	13	34	27	22	21	8	0.105
5000-4616110	M16	108	11	29	18	40	26	17	45	32	32	26	8	0.230

Specimen order: Movable claw with threaded borehole 5000-4612083

M8 and M20 on request

K-System 5000

Support strip



Material:

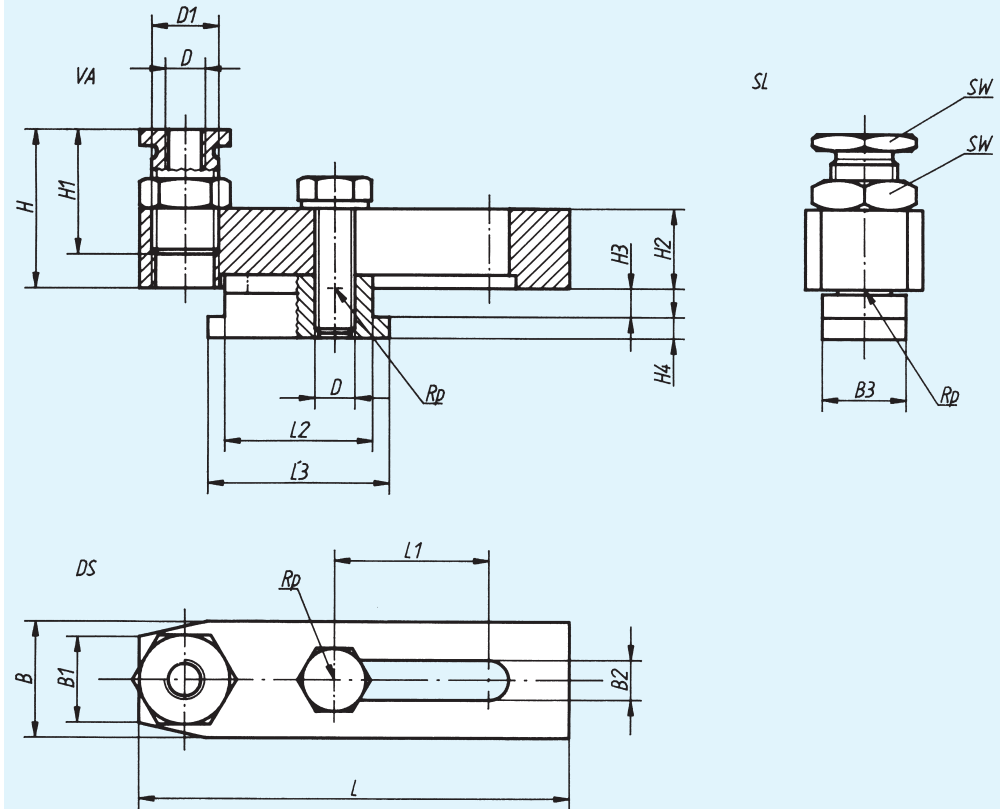
Strip, high-performance aluminum, other components, steel.

Finish:

Strip, heavy-duty elox finish, steel components bronzed.

Note:

The support strips are used on the baseplates and serve as workrests. The support strips can be used as single rests or they are co-mounted on the base plate of a clamped assembly.



Technical data for support strip

Order number	D	D ₁	L	L ₁	L ₂	L ₃	B	B ₁	B ₂	B ₃	H adjustment range	H ₁	H ₂	H ₃	H ₄	SW	Approx. weight kg
5000-6512	M12	M20x1.5	128	50	44	54	35	26	12.5	25	36-54	35	24	9	7	27	0.330
5000-6516	M16	M26x2	140	50	54	68	45	35	16.5	35	42-68	41	34	10	8	36	0.650

Specimen order: Support strip 5000-6512

M8 and M20 on request

K-System 5000

Vibration damping element



Material:

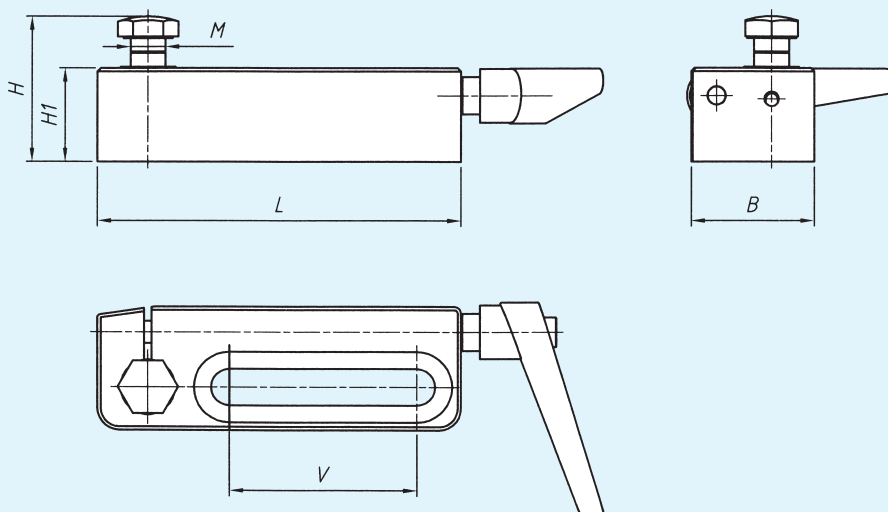
Base made of high-performance aluminum, remaining components made of steel.

Finish:

Aluminum components heavy-duty elox finish, steel components bronzed.

Note:

The vibration damping element serves to reduce vibrations. It is used on large panels which can be clamped only on the outside or on unstable workpieces. The clamping lever is released after clamping the workpiece. This presses the vibration damping element against the workpiece under spring force. The clamping lever must then be tensioned again.



Technical data for vibration damping element

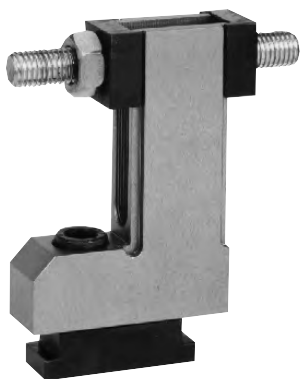
Order number	B	H min	H ₁	L	M	V	Approx. weight kg
5000-6612150	48	33.5	32.5	150	M12	85	0.720
5000-6612270	48	33.5	32.5	270	M12	2 x 85	0.920
5000-6612390	48	33.5	32.5	390	M12	3 x 85	1.20
5000-6616165	56	43.5	42.5	165	M16	80	1.16
5000-6616285	56	43.5	42.5	285	M16	2 x 80	1.41
5000-6616405	56	43.5	42.5	405	M16	3 x 80	1.90

Specimen order: Vibration damping element 5000-6612150

M8 and M20 on request

K-System 5000

Adjustable stop



Material:

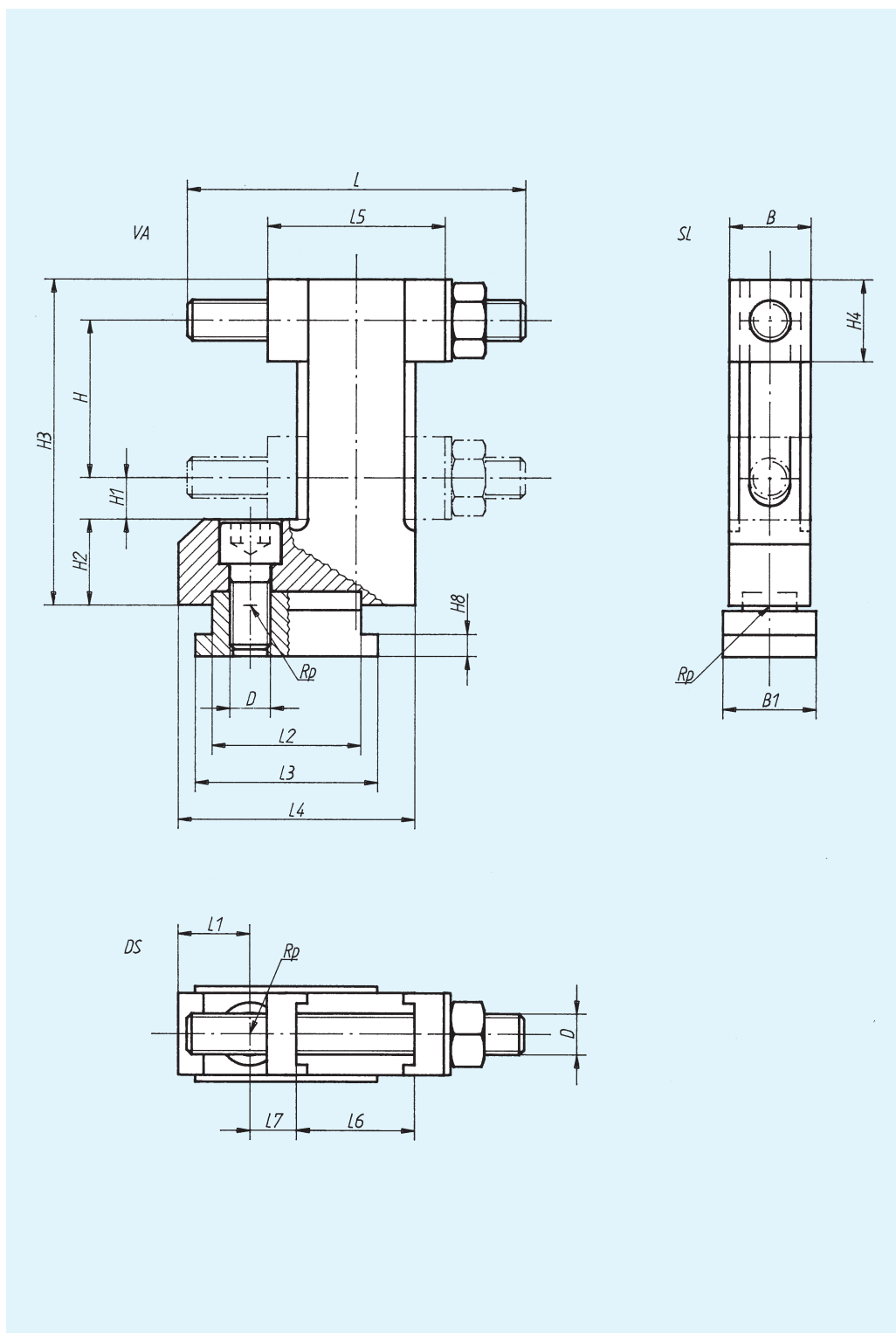
Square base made of high-performance aluminum, other components made of steel.

Finish:

Square base with a heavy-duty elox finish, steel components bronzed.

Note:

Adjustable stops are used on base plates. The stop height is adjusted to the workpiece with the help of raisers. Adjustable stops can be used individually or on a base plate that is part of a fixture.



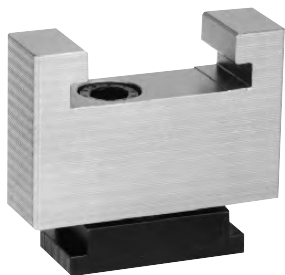
Technical data for adjustable stop

Order number	D	L	L ₁	L ₂	L ₃	L ₄	L ₅	L ₆	L ₇	B	B ₁	H	H ₁	H ₂	H ₃	H ₄	H ₈	Approx. weight kg
5000-7012	M12	85	21	44	54	70	54	35	14	24	25	50	13	25	95	24	6.5	0.510
5000-7016	M16	140	36	54	67	100	70	50	14	34	33	50	18	36	115	35	9	1.250

Specimen order: Adjustable stop 5000-7012

M8 and M20 on request

K-System 5000 Raiser for stops



Material:

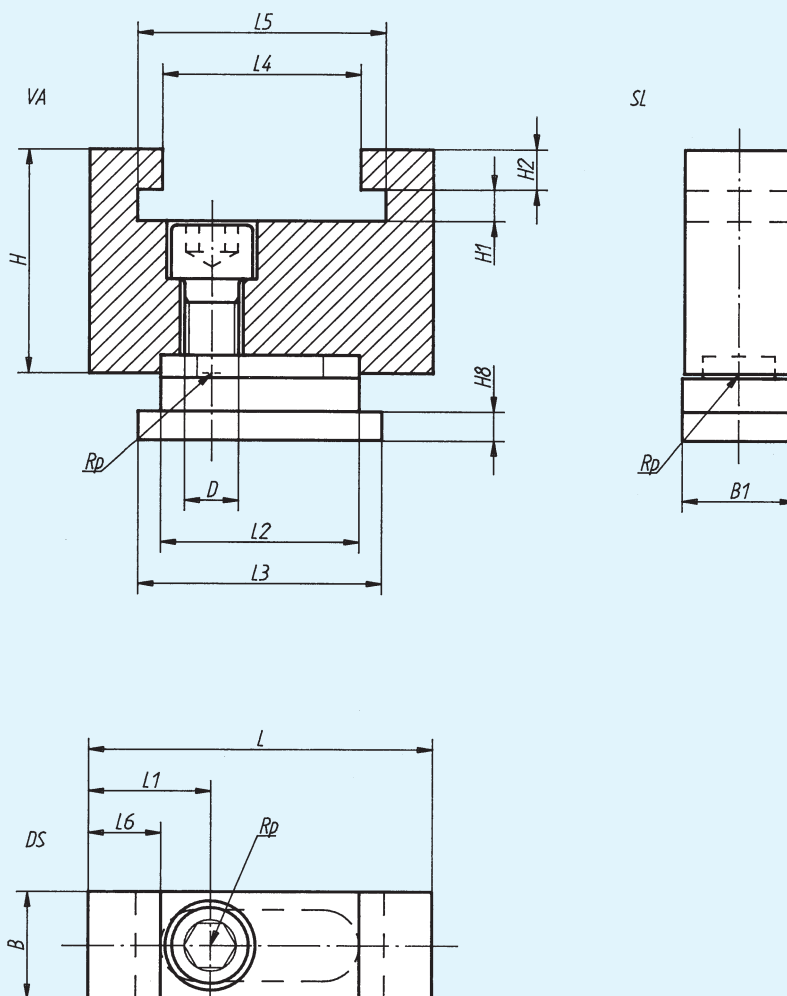
Tenon block made of high-performance aluminum, other components made of steel.

Finish:

Tenon block base with a heavy-duty elox finish, steel components bronzed.

Note:

Used as height elements in connection with stops.



Technical data for raiser for stops

Order number	D	L	L ₁	L ₂	L ₃	L ₄	L ₅	L ₆	B	B ₁	H	H ₁	H ₂	H ₈	Approx. weight kg
5000-7512050	M12	76.5	27	44	54	44	54.5	16	24	25	50	7	9	6.5	0.370
5000-7516050	M16	100	36	54	67	54	68	23	34	33	50	9	9	8.5	0.680

Specimen order: Raiser for stops 5000-7512050

M8 and M20 on request

K-System 5000

Outer collet



Material:

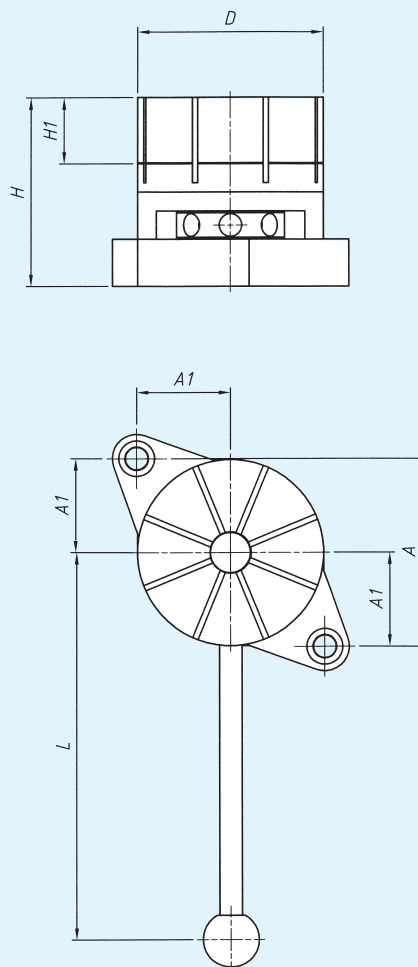
Steel, high-performance aluminum.

Finish:

Bronzed, heavy-duty elox finish.

Note:

Any workpiece outer form can be milled in on the slotted section (aluminum). Operating the lever closes the collet, thus clamping the workpiece over its entire contour. The clamped part can be replaced quickly by slackening a screw.



Technical data for outer collet

Order number	D	A	A ₁	H	H ₁	L	Approx. weight kg
5000-7712	99	100	50	100	35	205	2.530

Specimen order: Outer collet 5000-7712

K-System 5000

Inner collet

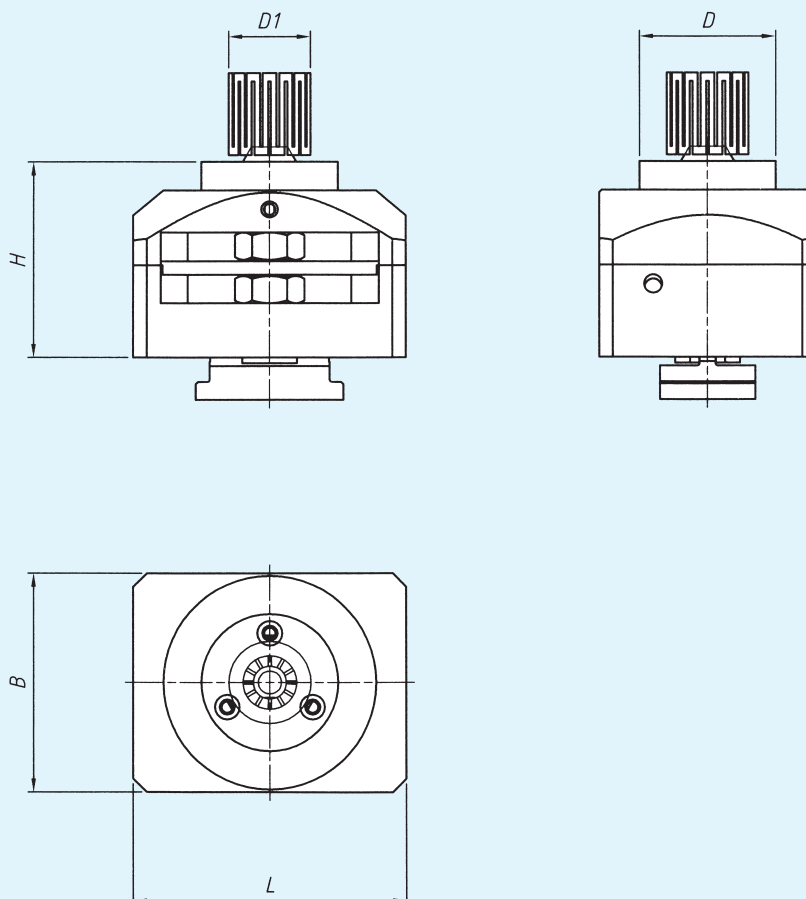


Material:
Steel.

Finish:
Tempered, bronzed.

Note:
The collet, featuring the T-slot design, can be positioned as required together with the base plate in an area of 50 x 50mm. The collet allows workpieces with at least 2 bores to be clamped. These workpieces can thus be machined on 5 sides in one clamping operation.

Ask us for the separate brochure.



Technical data for inner collet

Order number	L	B	H	D	D ₁	Approx. weight kg
5000-7812	100	80	72	50	20-40	3.160

Specimen order: Inner collet 5000-7812

M8 and M20 on request

K-System 5000

Soft support

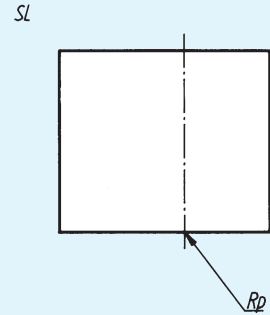
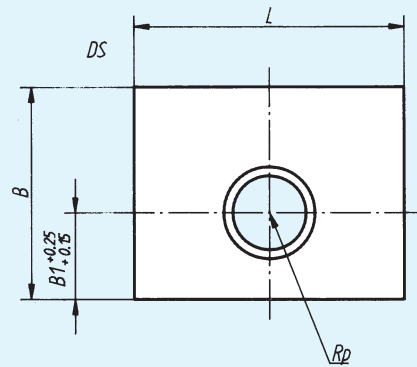
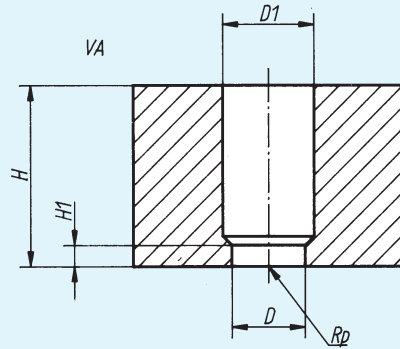


Material:
Grey cast iron.

Finish:
Blank.

Note:
Soft support can be adapted to any workpiece geometry. Two possible ways of doing this:

- The soft supports are adapted to the workpiece geometry outside the fixture.
- The soft supports are machined after the fixture has been assembled. This guarantees clamping processes with the highest degree of repeatability. The flat-head hex bolt to affix the soft support is supplied.



Technical data for soft support

Order number	D	D ₁	L	B	B ₁	H	H ₁	Approx. weight kg
5000-8012	12.5	14.5	40	32	14	30	5	0.240
5000-8016	16.5	19	50	40	18	40	6	0.500

Specimen order: Soft support 5000-8012

M8 and M20 on request

K-System 5000

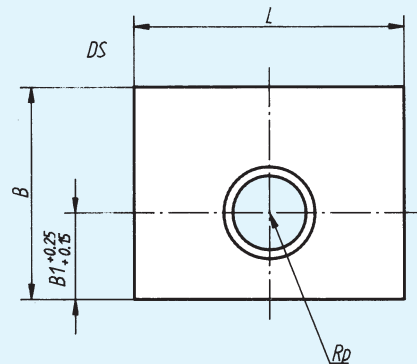
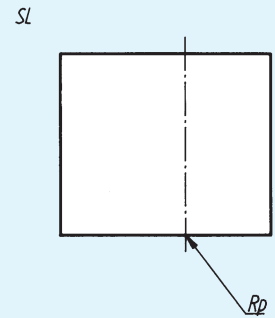
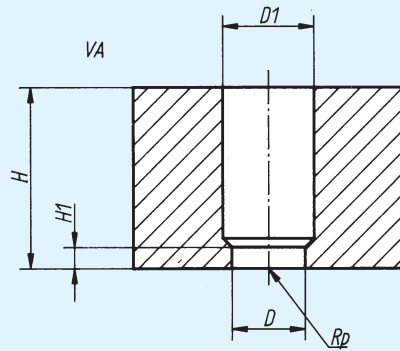
Hard support



Material:
Tool steel.

Finish:
Hardened and bronzed.

Note:
This element is used as an indestructible, exact support for workpieces. The hexagon-head countersunk screw for attaching the support is supplied.



Technical data for hard support

Order number	D	D ₁	L	B	B ₁	H	H ₁	Approx. weight kg
5000-8112	12.5	14.5	40	32	14	30	5	0.240
5000-8116	16.5	19	50	40	18	40	6	0.500

Specimen order: Hard support 5000-8112

M8 and M20 on request

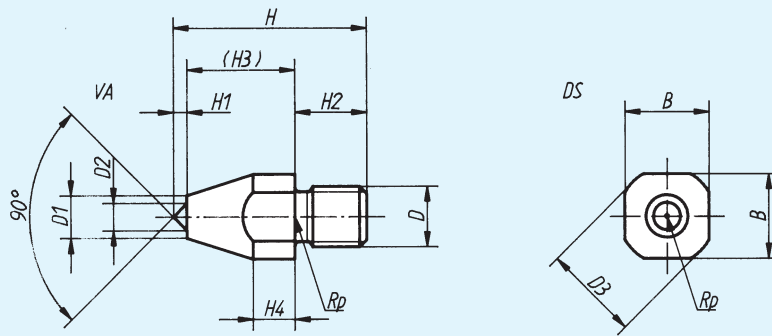
K-System 5000 Clamping point



Material:
Tempered steel.

Finish:
Tempered.

Note:
The clamping points penetrate into the workpiece and thus prevent it from moving during the machining process. Three point sizes are available. The size depends on the resultant cutting force, the material and the permissible size of the impression.



Technical data for clamping point

Order number	D	D ₁	D ₂	D ₃	B	H	H ₁	H ₂	H ₃	H ₄	Approx. weight kg
5000-8512125	M12	5.5	2.5	21	19	31.25	1.25	12	18	6	0.040
5000-8512175	M12	6.5	3.5	21	19	31.75	1.75	12	18	6	0.040
5000-8516125	M16	5.5	2.5	28	24	45.25	1.25	16	28	9	0.100
5000-8516175	M16	5.5	3.5	28	24	45.75	1.75	16	28	9	0.100
5000-8812125	M12	5.5	2.5	21	19	51.25	1.25	12	38	6	0.065
5000-8812175	M12	6.5	3.5	21	19	51.75	1.75	12	38	6	0.065
5000-8816125	M16	5.5	2.5	28	24	65.25	1.25	16	48	9	0.130
5000-8816175	M16	6.5	3.5	28	24	65.75	1.75	16	48	9	0.135

Specimen order: Clamping point 5000-8512125

M8 and M20 on request

K-System 5000

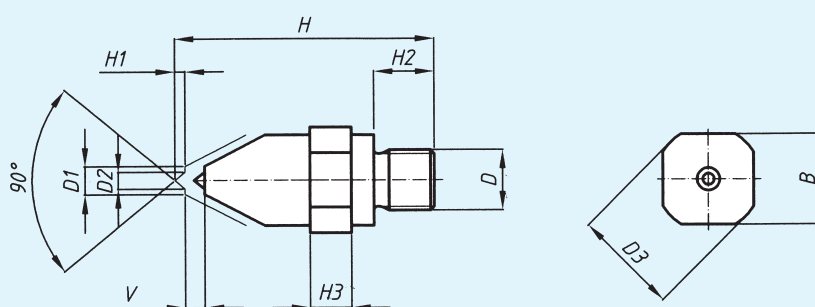
Adjustable clamping point



Material:
Tempered steel.

Finish:
Tempered.

Note:
The clamping points penetrate the material when clamped and thus prevent the workpiece moving during machining. Two point sizes are available. The size depends on the material. Large or small point for aluminum and casting and small point for steel. The adjustable point serves to align a workpiece.



Technical data for adjustable clamping point

Order number	D	D ₁	D ₂	D ₃	B	H	H ₁	H ₂	H ₃	V	Approx. weight kg
5000-8912125	M12	5.5	2.5	21	19	53	1.25	12	7	5	0.140
5000-8912175	M12	6.5	3.5	21	19	53	1.75	12	7	5	0.140
5000-8916125	M16	5.5	2.5	28	24	68	1.25	16	11	6	0.250
5000-8916175	M16	6.5	3.5	28	24	68	1.75	16	11	6	0.250

Specimen order: Adjustable clamping point 5000-8912125

M8 and M20 on request

K-System 5000

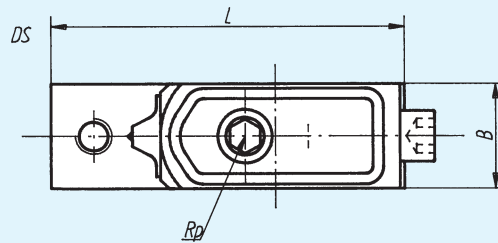
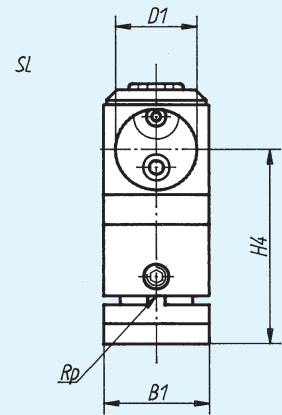
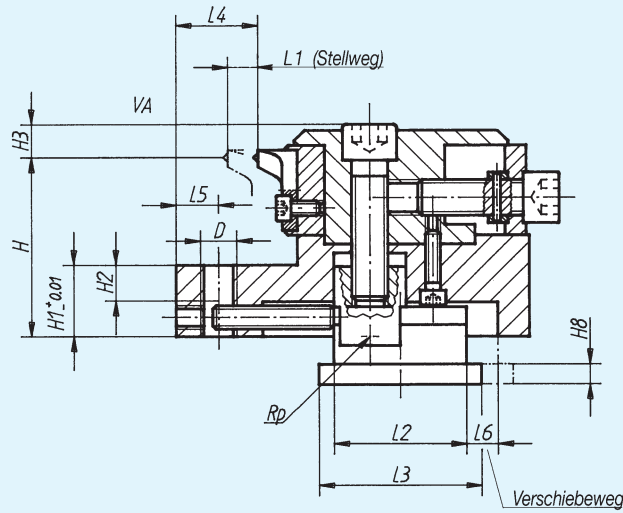
Lateral clamp



Material:
Steel.

Finish:
Hardened, tempered.
Support surfaces ground.

Note:
Lateral clamps are used as complete clamping units in conjunction with base plates. The T-slot design developed for the K-System 5000 (patent pending) enables users to fix the lateral clamp in any position within a range of 50 x 50mm from the same point of reference, and to move the clamping point to the workpiece with the help of the adjustment bolt. Lateral clamps can be equipped with clamping points or with locking jaws.



Technical data for lateral clamp

Order number	D	D ₁	L	L ₁	L ₂	L ₃	L ₄	L ₅	L ₆	B	B ₁	H	H ₁	H ₂	H ₃	H ₄	H ₈	Approx. weight kg
5000-9012	M12	27	117	10	44	54	28	14	10	35	35	60	24	13	11	64.5	6.5	1.765
5000-9016	M16	37	146	10	54	68	36	18	10	45	45	81	30	18	10	82.5	9	3.710

Specimen order: Lateral clamp 5000-9012

M8 and M20 on request

K-System 5000

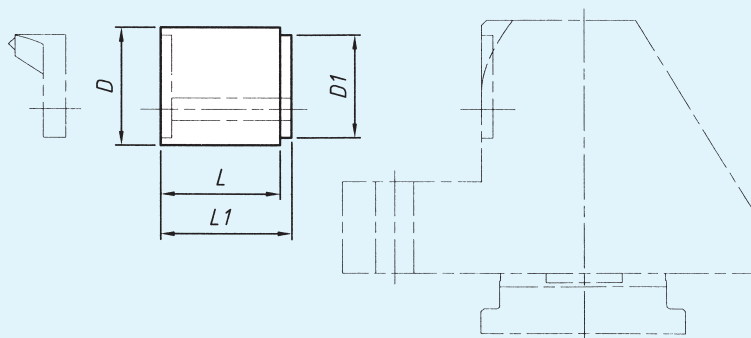
Lateral clamp extension



Material:
Steel.

Finish:
Bronzed.

Note:
The extension is used on the lateral clamp and steady-rest.



Technical data for lateral clamp extension

Order number	D	D ₁	L	L ₁	Approx. weight kg
5000-9012028	29.5	27	28	32	0.140
5000-9016036	39.5	37	36	40	0.320

Specimen order: Lateral clamp extension 5000-9012028

M8 and M20 on request

K-System 5000

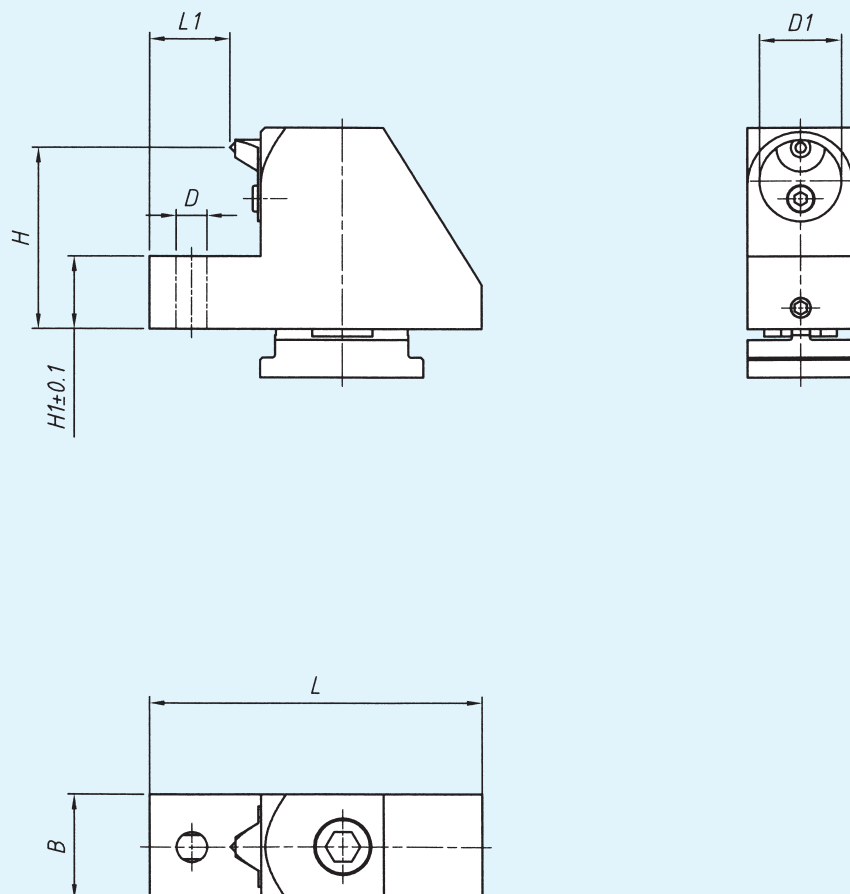
Adjustable steady-rest



Material:
Steel.

Finish:
Tempered, bronzed.

Note:
The adjustable steady-rest is the complement to the lateral clamp. The T-slot design for the K System 5000 (patent-pending) allows you to fix the steady-rest at any point in an area of 50 x 50mm from the same fixed point. The steady-rest can be equipped with clamping point or low clamp.



Technical data for adjustable steady-rest

Order number	B	D	D ₁	H	H ₁	L	Approx. weight kg
5000-9112	35	M12	27	60	24	110	1.360
5000-9116	45	M16	37	81	30	135	2.600

Specimen order: Adjustable steady-rest 5000-9112

M8 and M20 on request

K-System 5000

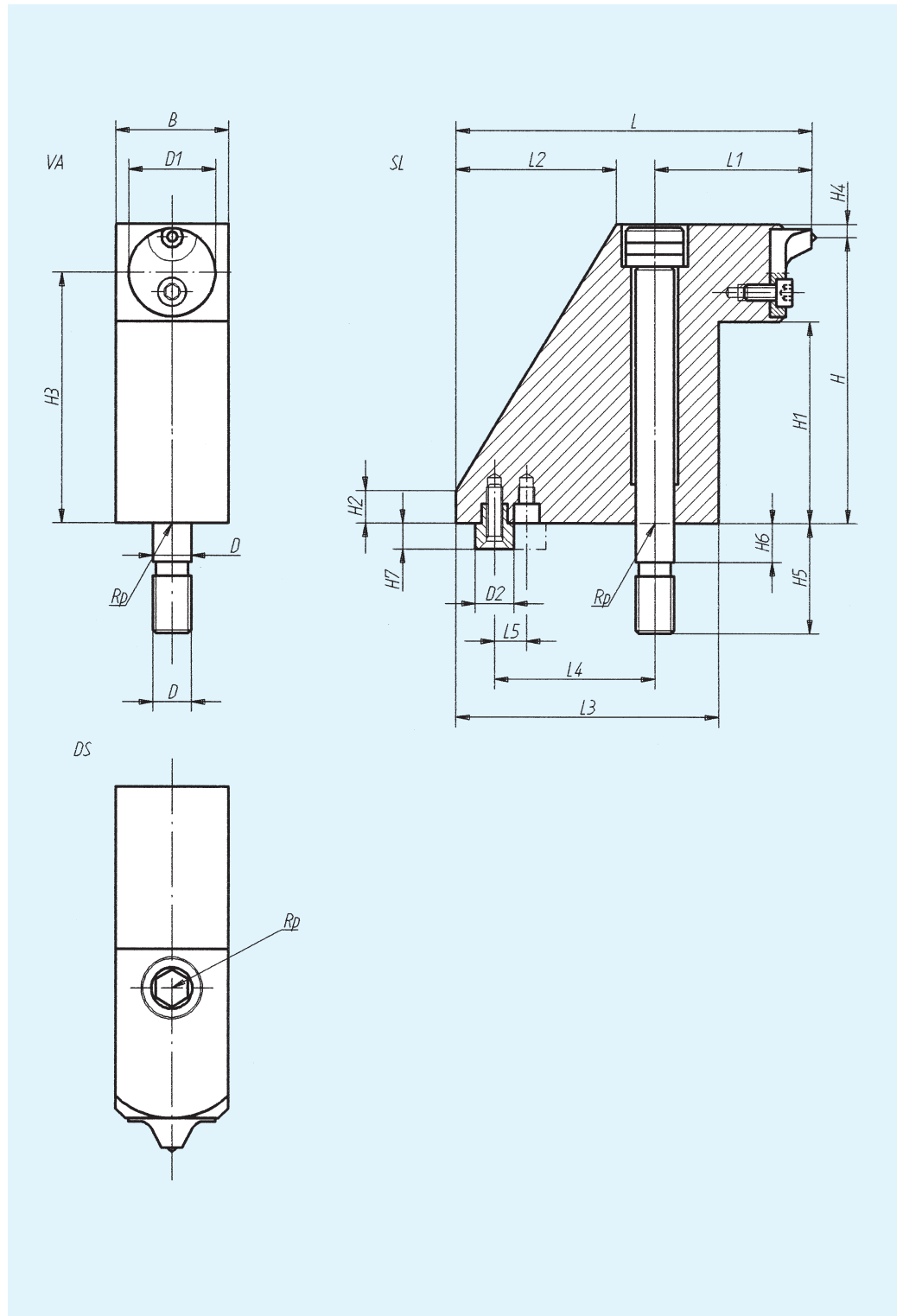
Steady for lateral clamp



Material:
Steel.

Finish:
Tempered, bronzed.

Note:
This steady has been designed for a direct fit into a threaded or grid borehole. It is the counterpart of the lateral clamp, and can be equipped with clamping points or with locking jaws. When fitting the steady to grid with fitting and threaded boreholes, a fitting bolt should be used to fix it in place.



Technical data for steady for lateral clamp

Order number	D		D ₁	L	L ₁	L ₂	L ₃	L ₄	L ₅	B	H	H ₁	H ₂	H ₃	H ₄	H ₅	H ₆	Approx. weight kg
	Thread	Fitting-Ø h 6																
5000-9312	M12	12	27	117	50	44	80	50	10	35	88	62	10	77	4	34	12	1.350
5000-9316	M16	16	37	146	50	54	50	-	-	45	116	80	10	100	4	41	16	2.720

Specimen order: Steady for lateral clamp 5000-9312

M8 and M20 on request

K-System 5000

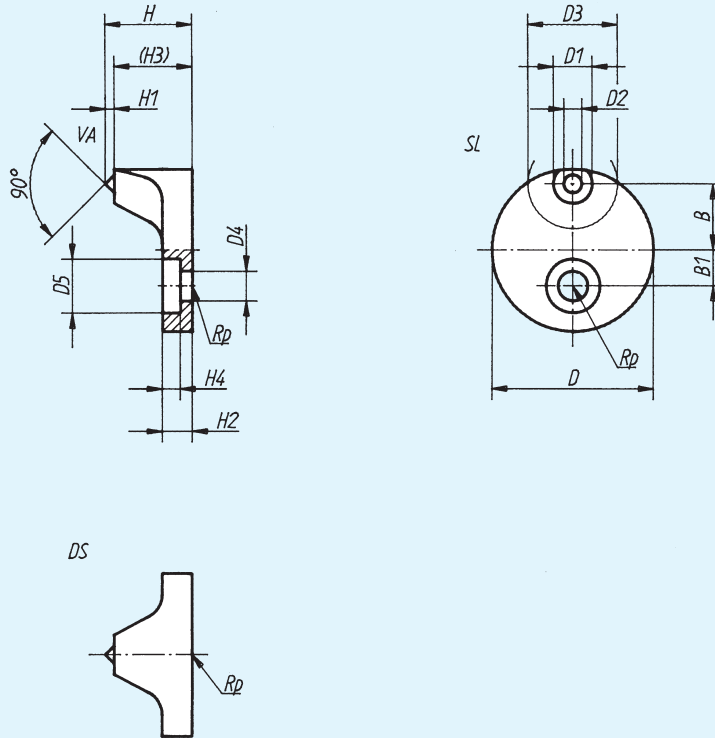
Clamping point for lateral clamp



Material:
Steel.

Finish:
Hardened.

Note:
The clamping points penetrate into the workpiece and thus prevent it from moving during the machining process. The point sizes are available. The size depends on the resultant cutting force, the material and the permissible size of the impression.



Technical data for clamping point for lateral clamp

Order number	D	D ₁	D ₂	D ₃	D ₄	D ₅	B	B ₁	H	H ₁	H ₂	H ₃	H ₄	Approx. weight kg
5000-9512125	M12	5.5	2.5	16	5	9	19	6	13.75	1.25	5	12.5	3	0.030
5000-9512175	M12	6.5	3.5	16	5	9	19	6	14.25	1.75	5	12.5	3	0.030
5000-9516125	M16	5.5	2.5	18	8	13.5	24	8	17.25	1.25	7	16	4	0.060
5000-9516175	M16	5.5	3.5	18	8	13.5	24	8	17.75	1.75	7	16	4	0.060

Specimen order: Clamping point for lateral clamp 5000-9512125

M8 and M20 on request

K-System 5000

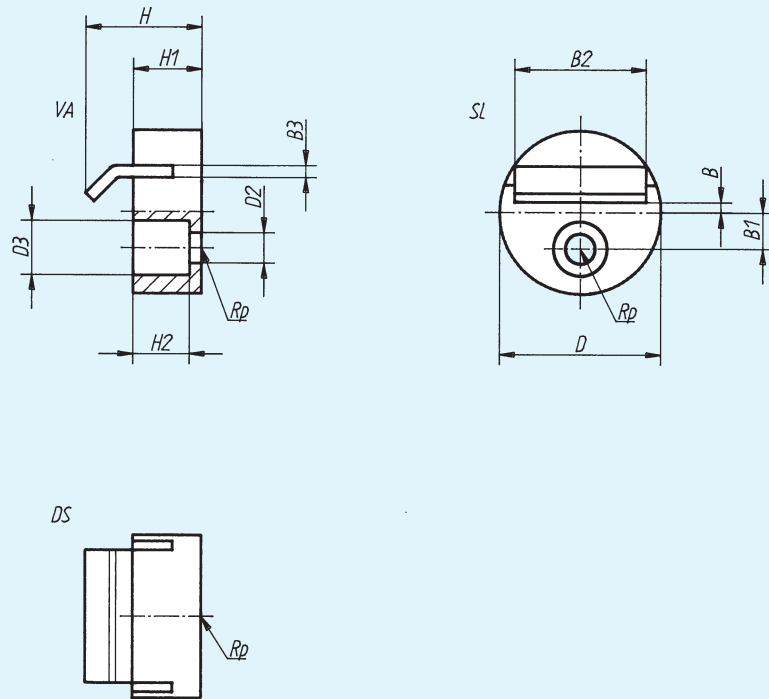
Locking jaw for lateral clamp



Material:
Steel.

Finish:
Tempered.

Note:
The obliquely shaped steel spring presses the clamped workpiece downwards onto the support to produce parallel surfaces.



Technical data for locking jaw for lateral clamp

Order number	D	D ₂	D ₃	B	B ₁	B ₂	B ₃	H	H ₁	H ₂	Approx. weight kg
5000-9612	27	5	9	5	6	20	2	16	10	6	0.050
5000-9616	37	8	13	7	8	28	2.4	22	12	8	0.095

Specimen order: Locking jaw for lateral clamp 5000-9612

M8 and M20 on request

K-System 5000

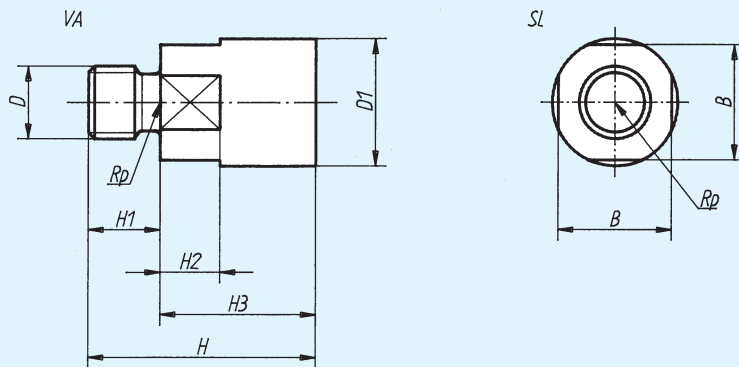
Soft support, round



Material:
Steel.

Finish:
Blank.

Note:
This soft support is used for workpieces. It can be milled according to requirements. This provides a very accurate support for a workpiece.



Technical data for soft support, round

Order number	D	D ₁	B	H	H ₁	H ₂	H ₃	Approx. weight kg
5000-9812018	M12	21	19	30	12	10	18	0.055
5000-9812026	M12	21	19	38	12	10	26	0.080
5000-9816025	M16	28	24	41	16	10	25	0.135
5000-9816035	M16	28	24	51	16	10	35	0.185

Specimen order: Soft support, round 5000-9812018

M8 and M20 on request

K-System 5000

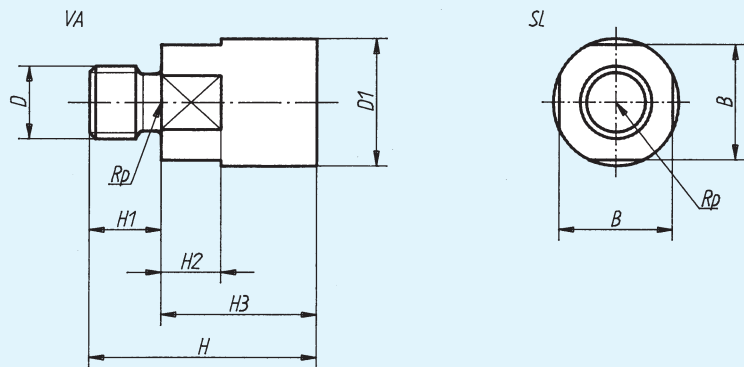
Hard support, round



Material:
Tool steel.

Finish:
Hardened and bronzed.

Note:
This element is used as an indestructible, exact support for workpieces.



Technical data for hard support, round

Order number	D	D ₁	B	H	H ₁	H ₂	H ₃	Approx. weight kg
5000-9912018	M12	21	19	30	12	10	18	0.055
5000-9912026	M12	21	19	38	12	10	26	0.080
5000-9916025	M16	28	24	41	16	10	25	0.135
5000-9916035	M16	28	24	51	16	10	35	0.185

Specimen order: Hard support, round 5000-9912018

M8 and M20 on request

