



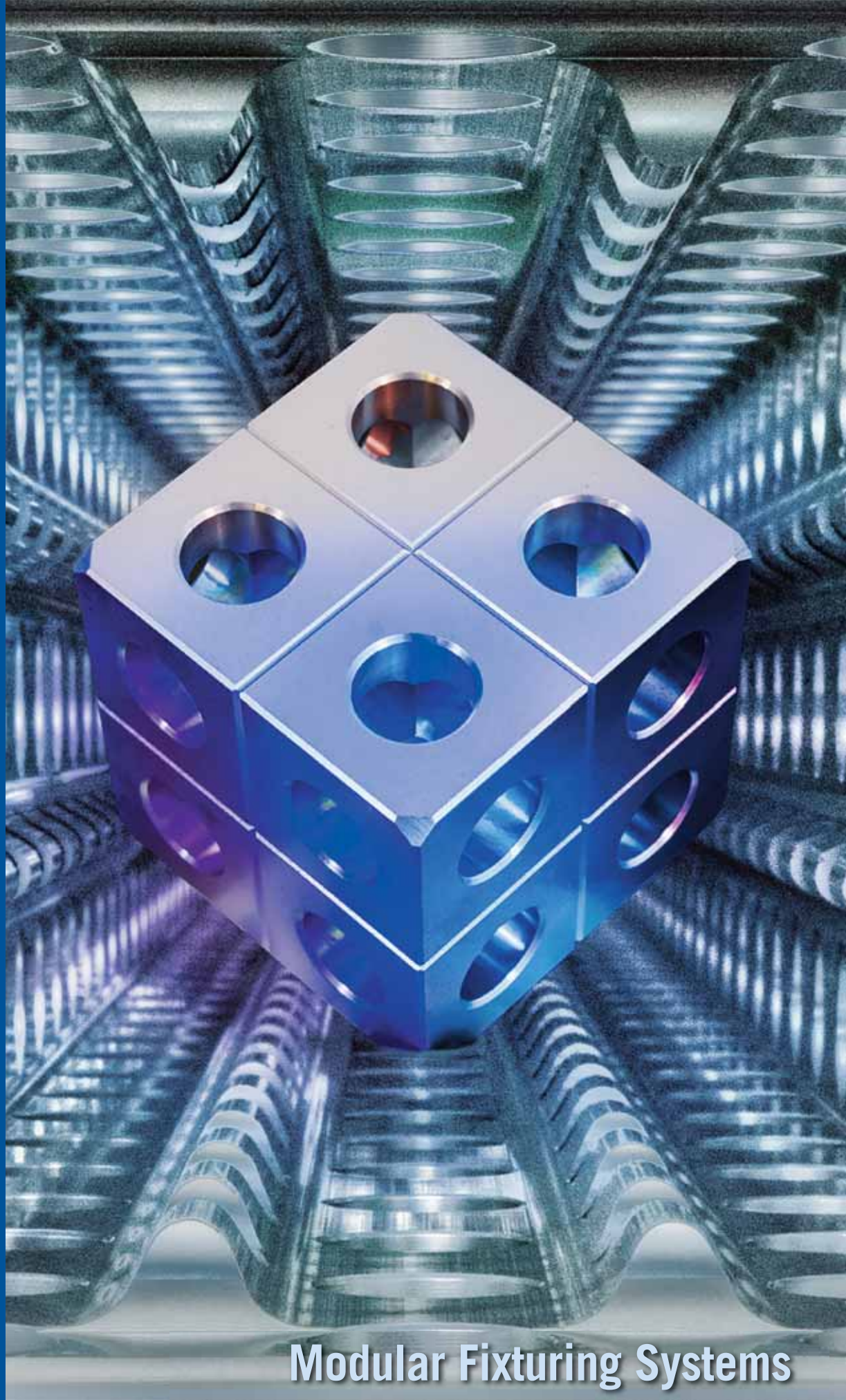
ALUFIX

THE ORIGINAL - SINCE 1987

ALUFIX
CLASSIC

ALUFIX
ECO

FixBase®



Modular Fixturing Systems

Main catalogue **2017/18**

Projected storage building
completion in 2017



Witte was founded in 1969 and initially manufactured complex, high-precision parts for the aerospace industry. Today Witte has developed into a leading manufacturer of fixturing systems and gauges for all kinds of applications. Almost all leading companies from automotive and aircraft industries now rely on Witte technology in order to maintain high quality in their production process.





Certification

Witte Gerätebau KG is certified according to

- DIN EN ISO 9001 • DIN EN ISO 9100
- QSF-A (Aerospace suppliers)



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The current version of the catalogue is also available on our website www.witte-barskamp.de

Performance portfolio and set up

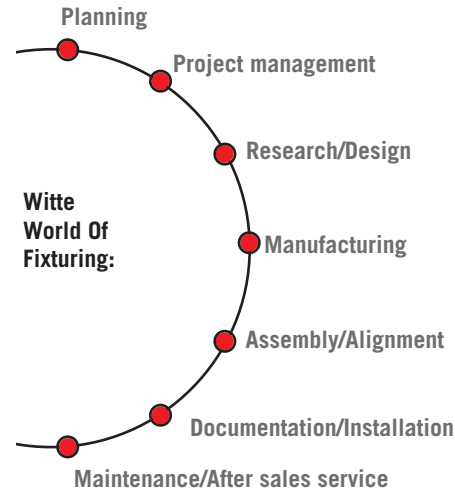
Why should you choose Witte ?

To decide on Witte system solutions and products is a decision for the future and reduces investment for measuring equipment and fixture cost for every following project.

The system components from product lines ALUFIX Classic and ALUFIX ECO can be 100% reused for new tasks, multiple retooling for a lifetime. Reusability presupposes durability!

Witte uses high-grade material quality without compromise. High manufacturing accuracy of the components themselves and in assembly with each other as well as hard-wearing surface protection guarantee "Systematic Quality".

All Witte system elements follow a consistent idea, are downwards compatible and at the same time build a basis for future additional items. Witte modular systems are an optimal match to today's requirements as well as being wisely combinable with each other. No matter what demand and individual application you have, Witte offers you the correct technical and cost-effective solution.



- As everything is done under one roof, time consuming interfaces and inevitable cost arising from overlapping are dispensed with.
- International sales and service network through own subsidiaries and regional solution partners.
- Experienced project teams with sound knowledge in almost all standards of the automotive industry and their related partners.

www - Witte worldwide

We meet the challenges of our customers wherever they occur.

Our sales and service network guarantees support worldwide. Witte companies and subsidiaries in Singapore, Mexico and USA as well as long term partners in all major industrial nations ensure the same high service level all over the World.



www - Witte worldwide:

www.witte-barskamp.de
www.alufix.de
www.witteasia.com
www.witteamerica.com

Product spectrum

Modular Fixturing Systems

Alufix Classic is the worldwide renowned and proven modular clamping and fixturing system for almost all applications in dimensional measuring technology.

Due to the high accuracy and quantity of intelligent elements Alufix sets are also in use as assembly and positioning systems. Right across all business areas ranging from automotive industry through aerospace to biomedical sciences people trust and use Witte Alufix Classic. If you have different materials, your parts vary in size, mass or stability, or you are measuring with tactile or optical equipment, Alufix Classic is the answer!

Due to the variety of components and of course the long experience of Witte Alufix Classic offers a solution for almost every task. Alufix Classic is not only an investment for current requirements but especially for the future, as all elements, according to the real idea of a modular system, are reusable and compatible with other Witte systems and elements.

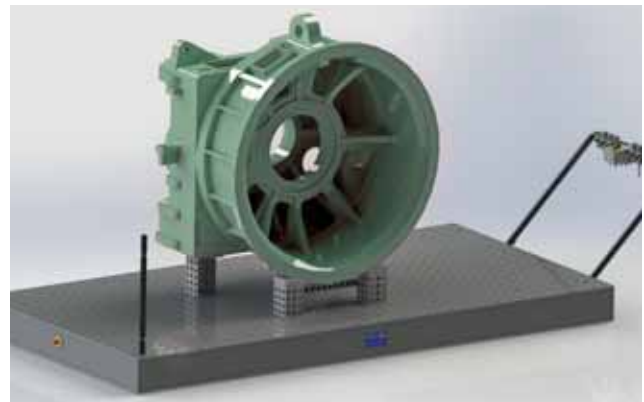
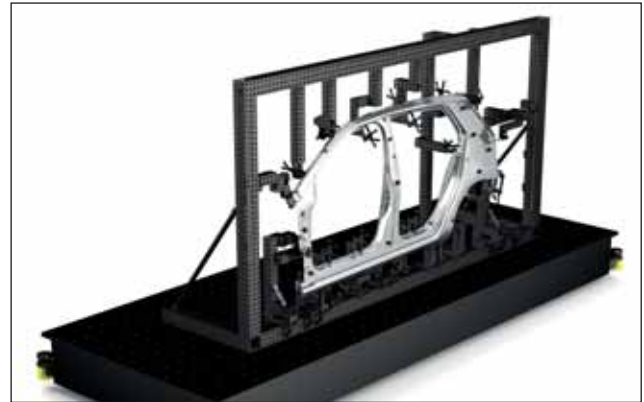
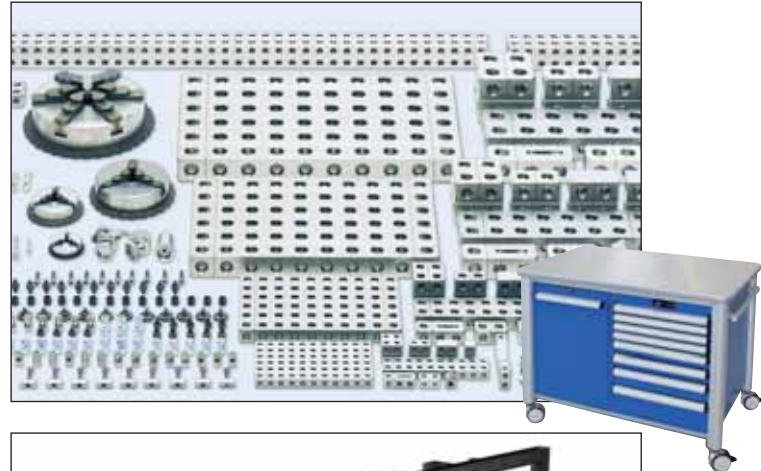
Different demands call for diverse solutions!

All Witte - profiles are unique in their design but nevertheless universal. Depending on requirements with regard to targeted application and duration, material or product specification of a part to be fixed, Witte offers purposeful, economical solutions.

Independent of general specifications of individual parts or groups, holding or measuring fixtures, a crucial point is the degree of desired flexibility during use.

ALUFIX CLASSIC offers the highest flexibility.

Fixtures are assembled with standard, catalogue components without any additional complex machining. At any time additions and/or modifications are just as easily possible as complete disassembly of the individual parts in order to build a new fixture for your next part. Witte profiles ALUFIX CLASSIC or ALUFIX ECO due to their system integration possibilities have extensive patented rights. This ensures that all profiles, connecting and positioning elements are compatible and complementary.



ALUFIX - Systematic flexibility...

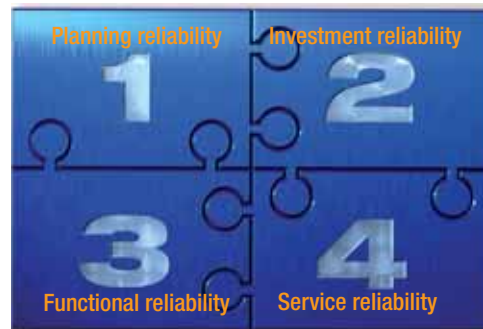
**Reliability from market leader in fixture building
with 30 years of experience and more than 10.000 systems sold worldwide**

Why and when do you need this system?

- You want a fast solution with short reaction times and high flexibility?
- Immediate availability is a must for you because planning time is getting shorter and shorter ?
- You want to remain independent and prefer “do it yourself”?

ALUFIX supports you fourfold to master these demands successfully

**What does
this mean?**



Planning reliability

**ALUFIX shortens your planning time and gives you
a high degree of freedom with**

100% compatibility

- ▶ Complete system is upwards or downwards compatible
- ▶ All system sizes can be combined
- ▶ No weight or size limits

100% continuity

- ▶ Can be used with other systems and clamps
- ▶ ALUFIX has been on the market for 25 years
- ▶ Basic design has always remained the same
- ▶ Original components still valid today

100% Verfügbarkeit

- ▶ Majority of components on stock
- ▶ Own manufacturing facilities with modern workshop



Investment reliability

ALUFIX offers you 4 tangible commercial advantages

100% quality

ALUFIX quality standard

- ▶ High quality aluminium raw material
- ▶ Comprehensive machining for highest precision
- ▶ Patented wear-resistant connection technology

100% cost effective

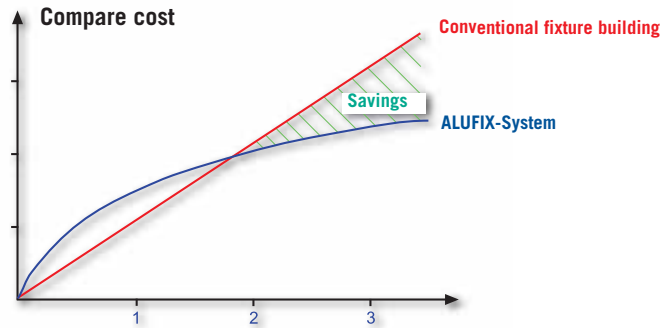
- ▶ Fast return on investment
- ▶ Productivity advantage by minimizing your standing times
- ▶ Multiple application possibilities with few components

100% cost effective



Compared to dedicated fixtures Alufix gives you a financial advantage already from second application onwards.

- ▶ Fast return on investment
- ▶ Productivity advantage by minimizing your standing times
- ▶ Multiple application possibilities with few components
- ▶ Multiple retooling concept enables multiple use of most of the standard components built in to fixtures



Functional reliability

ALUFIX saves you time and money, because all tasks are solved quickly and accurately:

100% intelligence

High versatility due to patented system

100% easy handling

100% speed

- ▶ The Alufix principle: Outer dimensions are always a multiple of the grid, grids are maintained even over several joined elements, through bores in three directions
- ▶ Low weight and high dimensional accuracy
- ▶ No large storage space required when fixtures are disassembled
- ▶ Few special assembly tools necessary
- ▶ ALUFIX-EXPERT software for short term feasibility studies, for planning or simple partlists and pre design drawings
- ▶ Parts library ALUFIX FIXMES for common CAD applications



100% Service

Service reliability

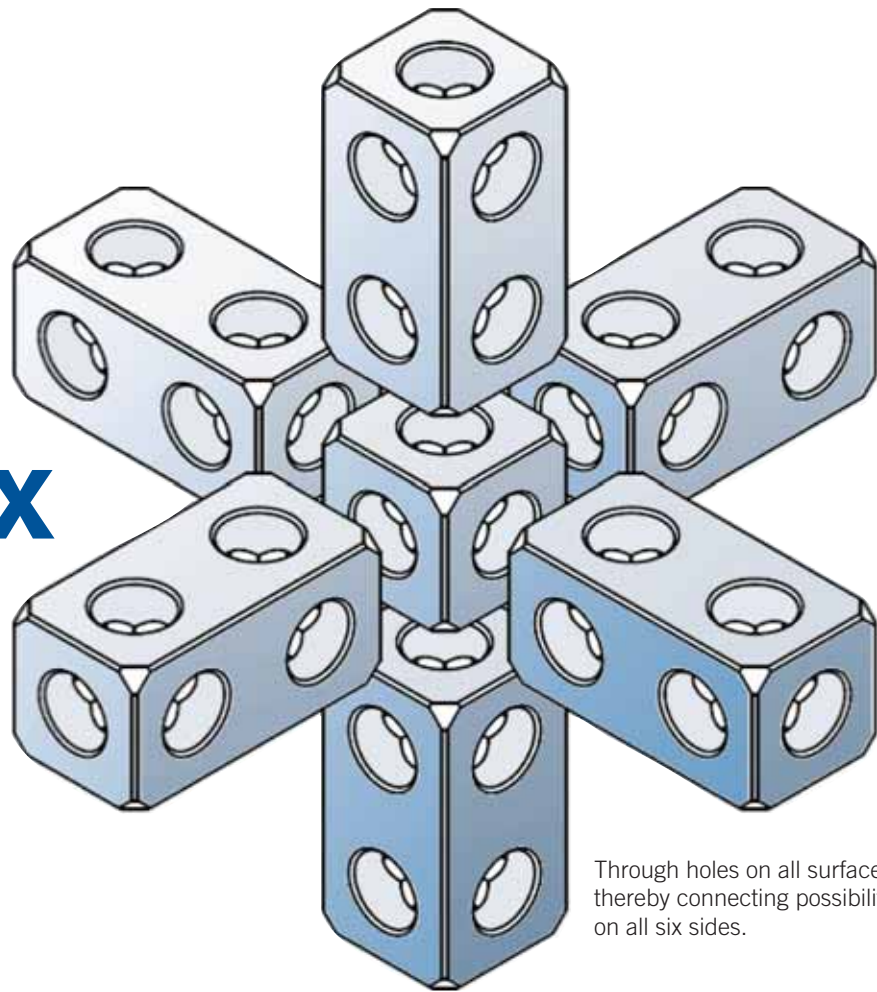
Services around ALUFIX leave nothing to be desired:

- ▶ Service stations worldwide
- ▶ Advice, Demos, training and support directly on customer's site or at Witte
- ▶ Worldwide network
- ▶ Teams of assembly engineers for installation and startup on site

... a pleasure to work with!



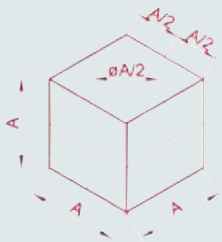
The ALUFIX principle



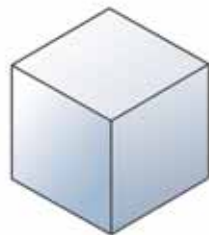
Through holes on all surfaces, thereby connecting possibilities on all six sides.

Basic design

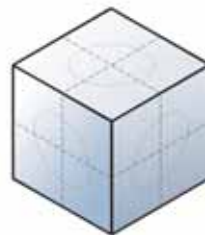
Origin of element geometry



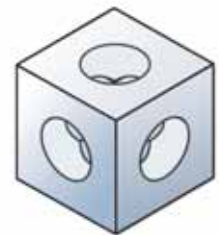
All further dimensions arise by multiplying the initial cube.



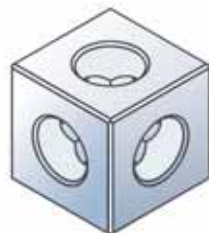
Initial shape: Cube



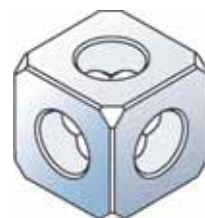
Marking for holes on all surfaces



Through holes on all surfaces



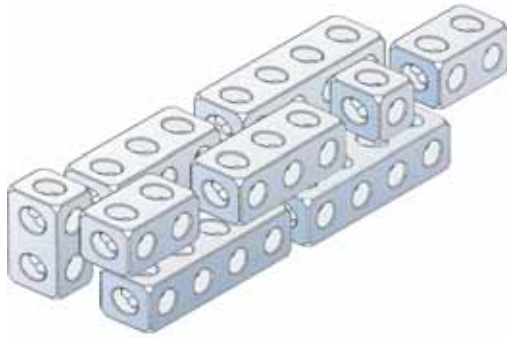
Chamfers on all edges



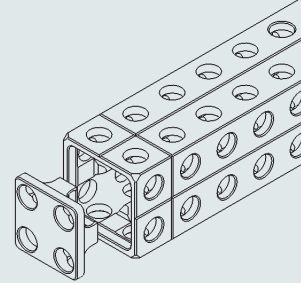
Angles on corners



Sectional view



ALUFIX element geometry guarantees that the grid in all directions across any number of joins will remain unchanged.



Hollow profiles (Light bars) are a logical extension for larger cross sections and lengths. Couplings mounted at both ends create 6 sided connection option.

Connection technology

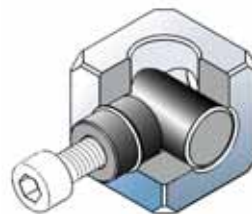
Each hole is not only for positioning but also for fixation



Sleeve
for positioning



Screw
nut



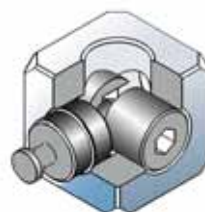
Sleeve, nut
and screw



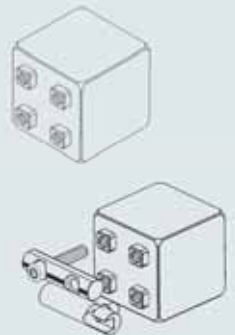
Twin bolt
for positioning



Lock
for securing



Lock
and twin bolt



Nubs are space saving connection solution for slides, quick couplings and contour blocks.

Application spectrum

Simple part supports

- simple, direct and without design, built according to the Alufix principle.

Here a modular fixturing system with a large range of components comes into its own.



Fixtures

- According to design and requirements of workpiece data, concept for repeatable use
- From checking of purchase parts to series measuring



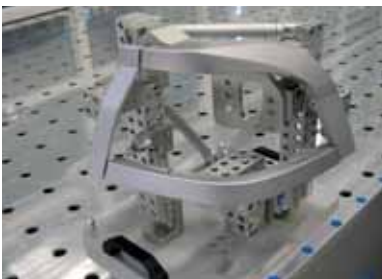
Sophisticated part supports

- With measuring, checking and adjusting elements, i.e. dial gauges, retractable plug gauges, moving slides



Gap and flush gauges

- with folding/removable contour stripe models and or measuring equipment



Meisterbocks

- Outer and inner for front, decklid, floor or complete body-in-white



Fuegemeisterbocks (Match metal fixtures)

- For front, rear, floor, sidepanels and a complete chassis



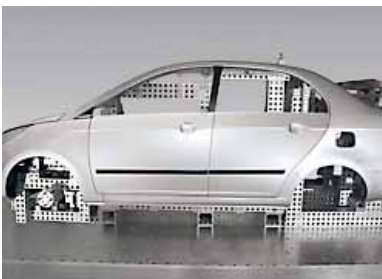
Cubings

- For supporting reference models and single parts in changeover



Frames for design models

- For supporting Uriol and clay models



ALUFIX fixtures can also be used for

assembly and alignment, glueing and welding, milling and laser machining

Versions

ALUFIX CLASSIC

High tensile-strength aluminium for highest demands on load, stability, durability, accuracy



ALUFIX ECO

Medium tensile aluminium as economical alternative for normal applications and moderate building intervals



Basic Components

Base plates/grid base plates
(small to medium size fixtures)

Bars full/light

Sandwich plates and grid plates
(large fixtures, mobile)



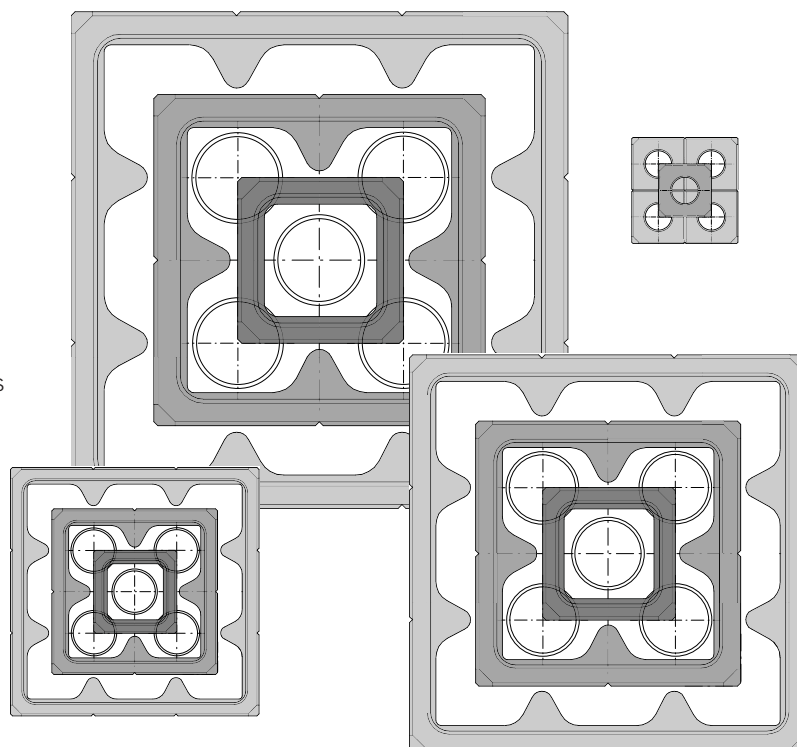
System sizes

ALUFIX 16
for optical measuring,
Mounting small parts

ALUFIX 25
for small to medium single part fixtures

ALUFIX 40
for medium to large assembly part
fixtures, meisterbocks etc.

ALUFIX 50
for mounting large, heavy parts



Element groups

Basic elements

Plates, bars, struts, angle brackets



Adjustable elements

Slides, rockers, jacks, rotary plates etc.



Contact elements

Centers, ball points, v-pieces, contour blocks etc.



Clamping elements

Hold-down springs, toggle clamps, clamps, jaw chucks, vises, magnets, vacuum suckers etc.

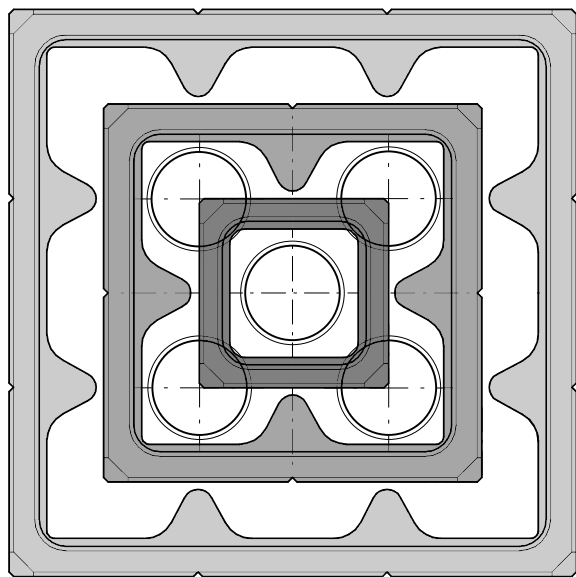


Connection elements

Couplings, quick and screw connectors



AF 25 Light, 25x25, 50x50, 75x75, grid hole $\varnothing$ 12,5

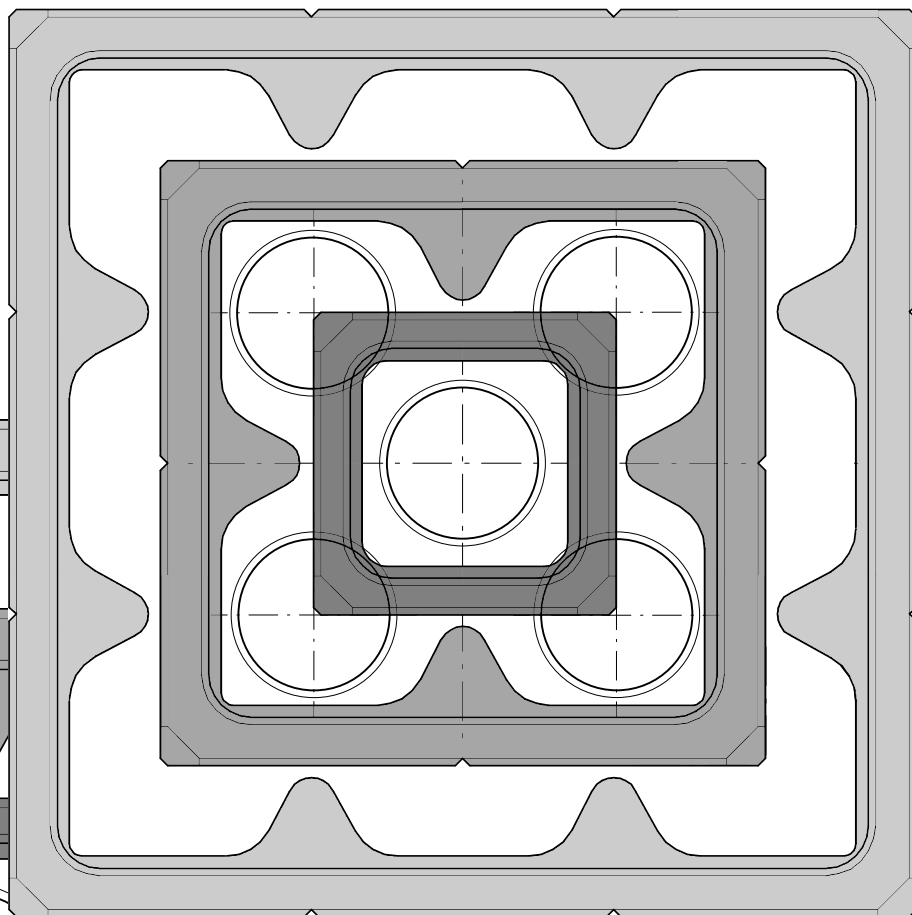


Profiles in original size

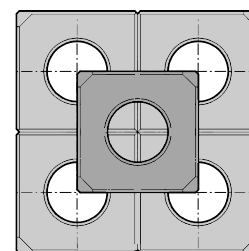
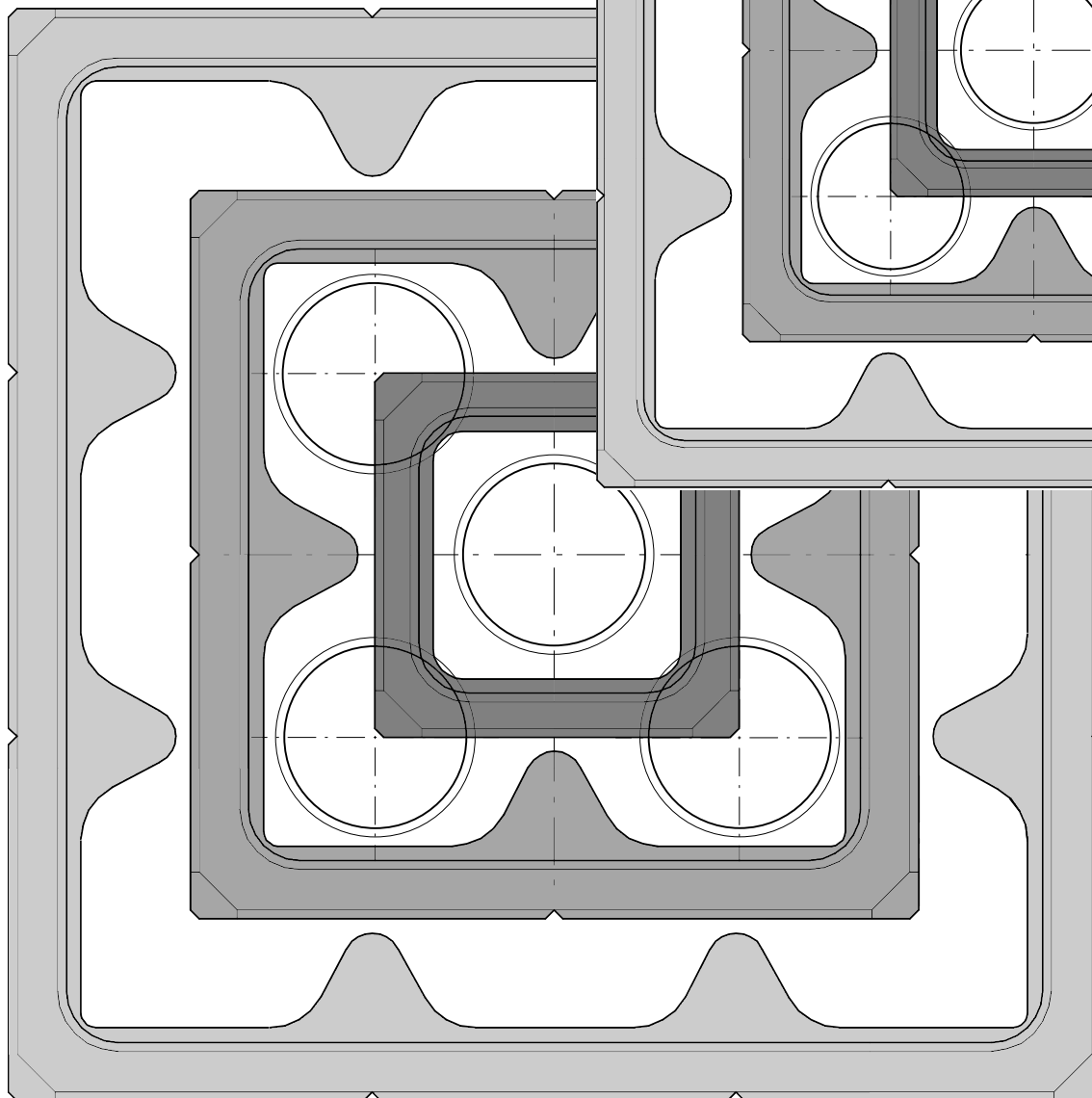
ALUFIX

Material: EN AW 7075 (high tensile aluminium)
 Tensile strength: Min. 480 N/mm²
 Hardness: Min. 130 HB
 Yield strength: Min. 390 N/mm²
 E Module: 72.000 N/m²

AF 40 Light, 40x40, 80x80, 120x120, grid hole $\varnothing$ 20



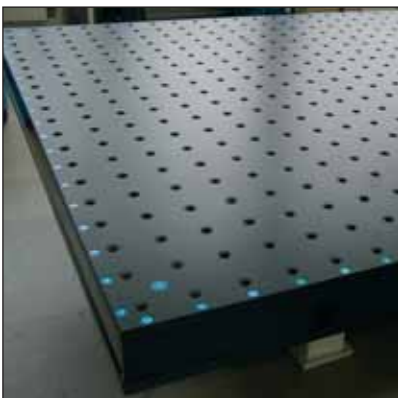
AF 50 Light, 50x50, 100x100, 150x150, grid hole $\varnothing$ 25



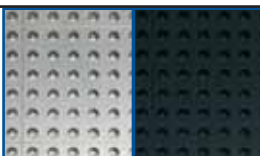
**AF 16 full,
 16x16,
 32x32,
 grid hole $\varnothing$ 8**



ALUFIX CLASSIC/ECO Base Plates



Witte FixBase – Base plates, sandwich plates and cubes are shown from page 152

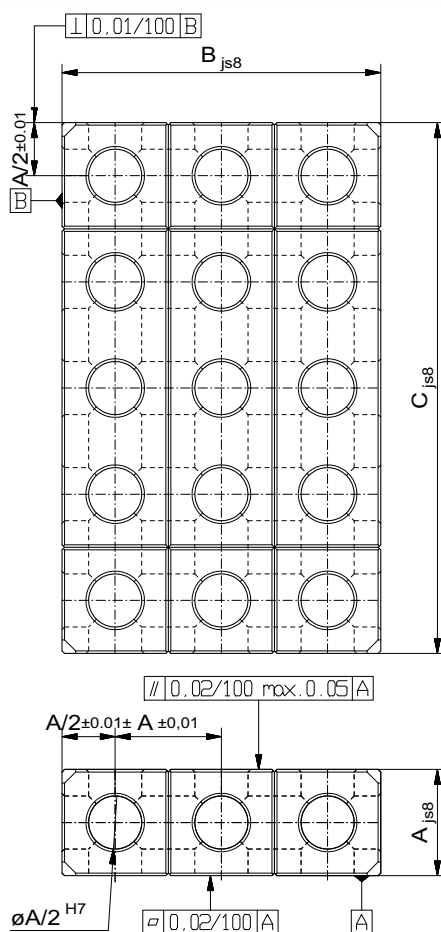


i **ALUFIX CLASSIC** base plates can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request

ALUFIX Base Plates

AF16 CLASSIC

Grid (A) 16, hole diameter 8mm



Nr.	A	B	C	
22093	16	32	32	27
22094	16	32	48	40
22095	16	32	64	53
22096	16	32	80	100
22932	16	32	96	80
22931	16	32	112	93
20652	16	32	160	131
20653	16	32	320	300

22930	16	64	96	160
21566	16	64	112	187
22929	16	64	128	214
21567	16	80	112	234
22928	16	80	128	267
21568	16	80	144	305
22926	16	80	160	335
21569	16	96	96	242
21570	16	96	112	282
21571	16	96	128	325
21572	16	96	144	375
21573	16	96	160	240
22924	16	96	176	447
22907	16	96	192	482

21574	16	112	240	703
21575	16	128	128	431
21576	16	128	144	475
21577	16	128	256	862
21579	16	160	192	804
21578	16	160	320	1.400
21580	16	192	256	1.298
21581	16	192	320	1.611
20112	16	240	240	1.510
22097	16	320	320	1.350
28076	16	384	384	3.812

Preference item:
Articles with green diamond →
are available ex stock!



→ Article colour anodized natural

→ Article colour anodized black

AF25 CLASSIC/ECO(-E),
Grid(A) 25, hole diameter 12,5mm

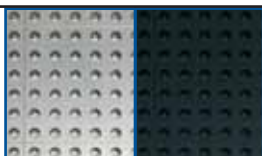
Nr.	A	B	C	g
21703	25	50	50	100
21704	25	50	75	150
21705	25	50	100	200
21706	25	50	125	250
22957	25	50	150	302
22959	25	50	200	403
22885	25	50	250	503
21707	25	50	500	1.009
21488	25	100	125	506
28032	25	100	150	600
21347	25	100	175	708
21496	25	125	125	630
21348	25	125	175	888
21349	25	125	225	1.135
21350	25	150	150	908
21351	25	150	175	1.048
21352	25	150	200	1.211
21353	25	150	225	1.348
21354	25	150	250	1.523
21355	25	175	375	2.606
21356	25	200	200	1.617
21357	25	200	225	1.826
28033	25	200	300	2.590
21358	25	200	400	3.246
21360	25	250	300	3.035
21359	25	250	500	5.061
21361	25	300	400	4.860
21362	25	300	500	6.068
22911	25	400	500	8.200
22915	25	400	600	9.900
22913	25	500	500	10.250
22919	25	600	600	14.900
22921	25	600	800	19.900
20280	25	600	1000	24.700

AF40 CLASSIC/ECO(-E),
Grid(A) 40, hole diameter 20mm

Nr.	A	B	C	g
21698	40	80	80	410
21699	40	80	120	619
21700	40	80	160	825
21701	40	80	200	1.031
22909	40	80	240	1.239
22910	40	80	280	1.440
22906	40	80	320	1.647
21702	40	80	800	4.125
22862	40	160	200	2.027
22861	40	160	240	2.486
21257	40	160	280	2.900
22860	40	200	200	2.568
22842	40	200	240	3.092
21258	40	200	280	3.600
22843	40	200	320	4.123
21259	40	200	360	4.638
22851	40	200	400	5.153
21260	40	240	240	3.670
21261	40	240	280	4.291
21262	40	240	320	4.904
21263	40	240	360	5.517
21264	40	240	400	6.133
22839	40	280	320	5.800
22900	40	280	360	6.500
21265	40	280	600	10.900
21266	40	320	320	6.539
21267	40	320	360	7.356
21268	40	320	640	13.078
21269	40	400	480	12.500
21303	40	400	800	21.000
21270	40	480	640	20.200
21271	40	480	800	24.800
28079	40	800	800	41.000
28080	40	960	960	59.000
28081	40	960	1280	78.000
28082	40	960	1600	98.000

AF50 CLASSIC/ECO(-E),
Grid(A) 50, hole diameter 25mm

Nr.	A	B	C	g
28093	50	100	100	800
27858	50	100	150	1.200
28094	50	100	200	1.600
28095	50	100	250	2.000
28096	50	100	300	2.400
28097	50	100	400	3.200
28098	50	100	500	4.000
28099	50	100	1000	8.100
28100	50	200	250	4.000
27857	50	200	300	5.000
28101	50	200	350	5.600
28102	50	250	250	5.000
28103	50	250	350	7.000
28104	50	250	500	10.000
28105	50	300	300	7.200
28106	50	300	350	8.400
28107	50	300	400	10.000
28108	50	300	450	11.000
28109	50	300	500	12.000
28110	50	350	750	22.000
28111	50	400	400	13.000
28112	50	400	450	14.500
28113	50	400	600	24.000
28114	50	400	800	25.000
28115	50	500	600	30.000
28116	50	500	1000	41.000
28117	50	600	800	44.000
28118	50	600	1000	48.000
28119	50	800	1000	72.000
28120	50	800	1200	80.000
28121	50	1000	1000	80.000



ALUFIX CLASSIC base plates can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request

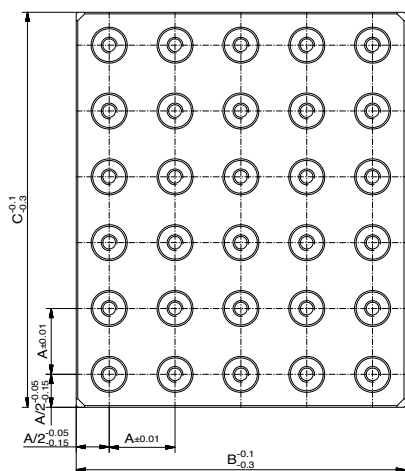
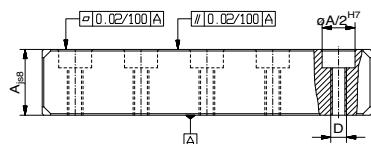
Other dimensions on request

ALUFIX

Grid Base Plates

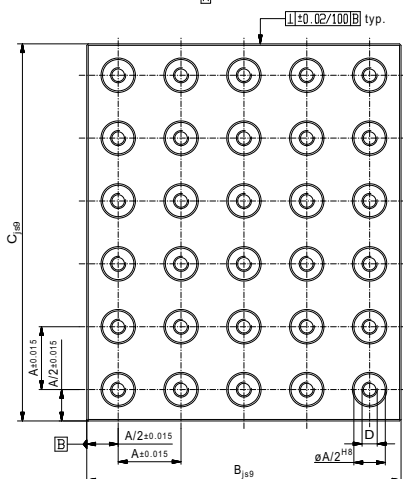
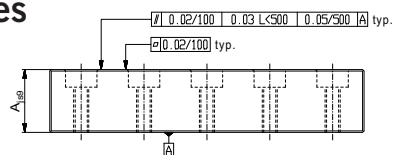
ALUFIX CLASSIC

Grid Base Plates



ALUFIX ECO

Grid Base Plates



ALUFIX 16 CLASSIC

Grid (A) 16, hole diameter 8mm

Nr.	A	B	C	D	g
20640	16	128	256	M4	1.416
20641	16	160	320	M4	2.221
20642	16	192	256	M4	2.123
20643	16	192	384	M4	3.185
20644	16	256	320	M4	3.539
20645	16	256	384	M4	4.247
20646	16	320	320	M4	4.424
20647	16	320	640	M4	8.847
20648	16	384	384	M4	6.370
20649	16	384	512	M4	8.493

ALUFIX 25 CLASSIC/ECO(-E)

Grid (A) 25, hole diameter 12,5mm

Nr. (ECO)	A	B	C	D	g
20387(-E)	25	200	400	M6	5.400
20388(-E)	25	250	500	M6	8.438
20403(-E)	25	300	400	M6	8.100
20386(-E)	25	300	600	M6	11.250
22923(-E)	25	400	500	M6	13.500
22925(-E)	25	400	600	M6	16.200
20439(-E)	25	500	500	M6	16.875
20381(-E)	25	500	1000	M6	33.750
20382(-E)	25	600	600	M6	24.300
20384(-E)	25	600	800	M6	32.400



Other dimensions on request.
On outer dimensions > 1000 mm,
outer lengths -1mm

Preference item:
Articles with green diamond →
are available ex stock!



→ Article colour anodized natural
→ Classic and/or ECO
→ Article colour anodized black

ALUFIX 40 CLASSIC/ECO(-E)

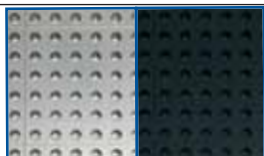
Grid (A) 40, hole diameter 20mm

Nr. (ECO)	A	B	C	D	
20650(-E)	40	320	640	M10	22.118
20651(-E)	40	400	800	M10	34.560
20710(-E)	40	480	640	M10	33.177
20711(-E)	40	480	960	M10	49.766
20713(-E)	40	640	800	M10	55.296
20714(-E)	40	640	960	M10	66.355
20715(-E)	40	800	800	M10	69.120
20808(-E)	40	800	1600	M10	138.240
20809(-E)	40	960	960	M10	99.533
20810(-E)	40	960	1280	M10	132.710

ALUFIX 50 CLASSIC/ECO(-E)

Grid (A) 50, hole diameter 25mm

Nr. (ECO)	A	B	C	D	
28083(-E)	50	400	400	M12	21.600
28084(-E)	50	500	1000	M12	67.500
28085(-E)	50	600	800	M12	64.800
28086(-E)	50	600	1200	M12	97.200
28087(-E)	50	800	1000	M12	108.000
28088(-E)	50	800	1200	M12	129.600
28089(-E)	50	1000	1000	M12	135.000
28090(-E)	50	1000	2000	M12	270.000
28091(-E)	50	1200	1200	M12	194.400
28092(-E)	50	1200	1600	M12	259.200



ALUFIX CLASSIC base plates can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request



Application examples of Alufix base plates and grid base plates



ALUFIX CLASSIC Full Bars



Alufix full bars are suitable for building small to medium size fixtures as a link between base and workpiece contact point. They can be connected on all 6 sides using quick or screw connection technology and are extremely flexible for all kinds of applications. The sizes listed are standard, other dimensions on request.

AF16 CLASSIC

One row bar 16x16

Grid (A) 16, hole diameter 8mm

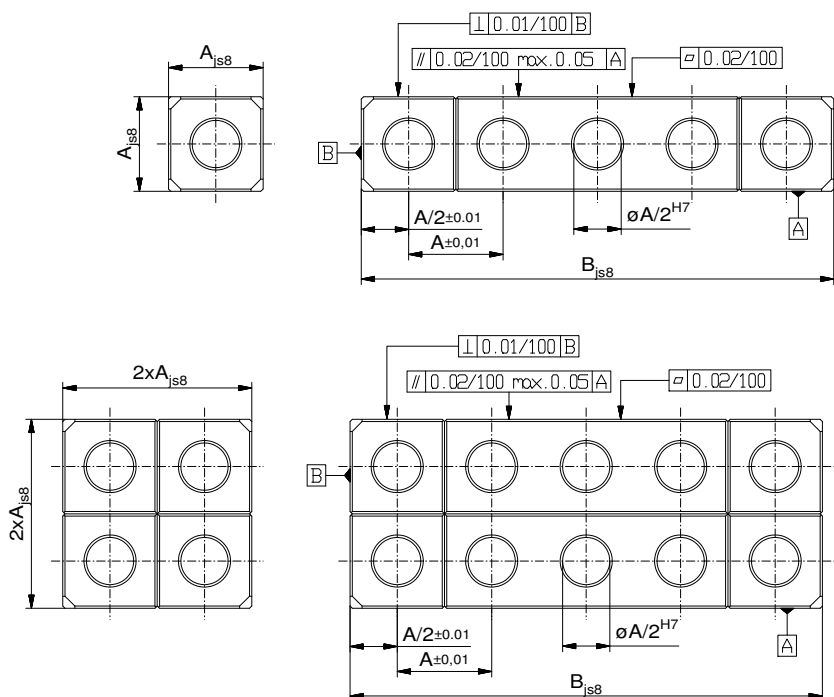
Nr.	B	
21582	16	7
21583	32	14
21584	48	21
21585	64	27
21586	80	33
20654	96	39
20801	128	53
20799	160	66
21587	320	140

AF16 CLASSIC

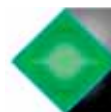
Two row bar 32x32

Grid (A) 16, hole diameter 8mm

Nr.	B	
21588	32	53
21589	48	79
21590	64	108
21591	80	131
23892	96	160
20812	112	200
20848	128	230
20849	160	268
21592	320	537



Preference item:
Articles with green diamond →
are available ex stock!



→ Article colour anodized natural

→ Article colour anodized black

AF25 CLASSIC

One row bar 25x25

Grid (A) 25, hole diameter 12,5mm

Nr.	B	
21372	25	25
21373	50	51
21374	75	76
21375	100	102
21376	125	127
22961	150	152
22963	200	204
22882	250	255
21377	500	510

AF40 CLASSIC

One row bar 40x40

Grid (A) 40, hole diameter 20mm

Nr.	B	
21273	40	104
21274	80	208
21279	120	404
21275	160	419
21276	200	523
20813	240	628
20815	320	1.098
20814	400	1.046
21304	800	2.947

AF50 CLASSIC

One row bar 50x50

Grid (A) 50, hole diameter 25mm

Nr.	B	
28177	50	335
28178	100	408
28179	150	613
28180	200	900
28181	250	1.023
28182	300	960
28183	400	1.280
28184	500	2.047
28185	1000	3.200

AF25 CLASSIC

Two row bar 50x50

Grid (A) 25, hole diameter 12,5mm

Nr.	B	
21378	50	204
21379	75	308
21380	100	410
21381	125	510
22965	150	610
22967	200	819
22883	250	1.025
21382	500	2.020
22634	1000	4.030

AF40 CLASSIC

Two row bar 80x80

Grid (A) 40, hole diameter 20mm

Nr.	B	
21298	80	840
21299	120	1.257
21300	160	1.682
21301	200	2.080
20817	240	2.511
20818	280	2.900
20434	320	3.357
20435	400	4.150
21302	800	8.411

AF50 CLASSIC

Two row bar 100x100

Grid (A) 50, hole diameter 25mm

Nr.	B	
28186	100	1.637
28187	150	2.490
28188	200	6.460
28189	250	4.095
28190	300	4.915
28191	400	6.555
28192	500	4.960
28193	1000	9.750

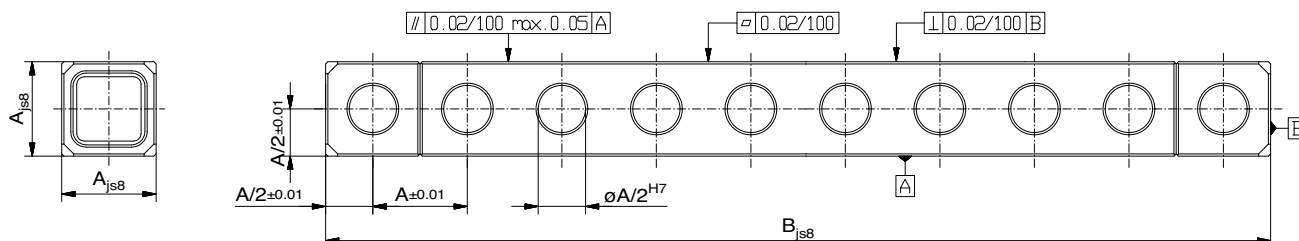


ALUFIX CLASSIC bars can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request

Other dimensions on request

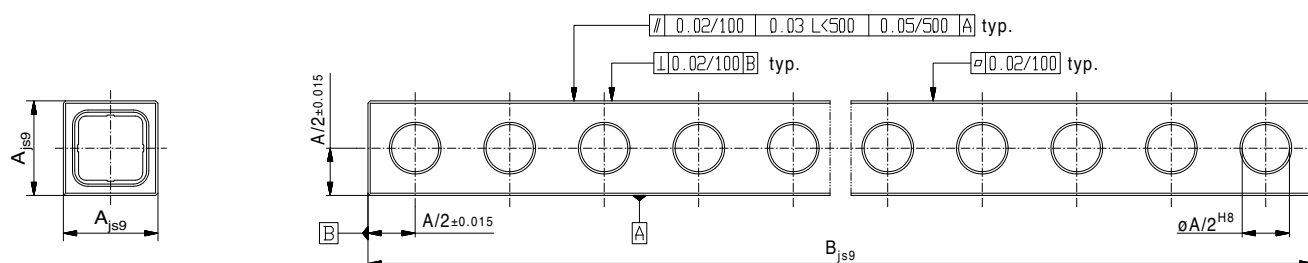
ALUFIX CLASSIC

Light Bar one row



ALUFIX ECO

Light Bar one row



Preference item:
Articles with green diamond →
are available ex stock!



→ Article colour anodized natural
→ Classic and/or ECO
→ Article colour anodized black

AF25 Light CLASSIC/ECO

One row bar 25x25

Grid (A) 25, hole diameter 12,5mm

Nr.(ECO)	B	
24340(-E)	50	34
25013(-E)	100	69
25374(-E)	150	103
24336(-E)	200	138
22946(-E)	250	172
24337(-E)	300	206
25012(-E)	350	241
23283(-E)	400	275
25890(-E)	450	310
22947(-E)	500	344
25894	550	378
21333(-E)	600	413
24338	650	447
24339(-E)	700	482
21709	750	516
24189(-E)	800	550
27470	850	585
25895(-E)	900	619
27473	950	654
22948(-E)	1000	688
27605	1050	722
24190	1100	757
33282	1150	791
24191	1200	826
21749	1250	860
24188	1300	895
33283	1350	929
24187	1400	963
31855	1450	998
21189	1500	1.032
33284	1600	1.101
33285	1700	1.170
24395	1800	1.238
33286	1900	1.307
23334	2000	1.376

AF40 Light CLASSIC/ECO

One row bar 40x40

Grid (A) 40, hole diameter 20mm

Nr.(ECO)	B	
25039(-E)	120	221
25377(-E)	160	294
26505(-E)	200	368
25378(-E)	240	441
27342(-E)	280	514
25379(-E)	320	588
27183(-E)	360	661
23549(-E)	400	735
24945	440	809
25945(-E)	480	882
25951	520	956
26611	560	1.029
27444(-E)	600	1.103
33296	640	1.176
26612	680	1.250
28465	720	1.323
32702	760	1.397
23550(-E)	800	1.470
26610	840	1.544
26613	880	1.617
26685	920	1.691
27445	960	1.764
24495(-E)	1000	1.838
26686	1080	1.985
27559	1160	2.132
23551(-E)	1200	2.206
24453	1400	2.570
23552	1600	2.941
25033	1800	3.308
23553	2000	3.676
23554	2400	4.411
23555	2800	5.146
23556	3200	5.882
23557	3600	6.617
23558	4000	7.352
28035	4400	8.087
28036	4800	8.822

AF50 Light CLASSIC/ECO

One row bar 50x50

Grid (A) 50, hole diameter 25mm

Nr.(ECO)	B	
28149	50	165
28150(-E)	100	330
28151(-E)	150	495
28152(-E)	200	660
28153	250	825
28154(-E)	300	990
28156	350	1.155
28155(-E)	400	1.320
28157	450	1.485
26933(-E)	500	1.650
28615(-E)	600	1.990
28495	700	2.310
33297(-E)	800	2.240
32654	900	2.985
26935(-E)	1000	3.328
28939	1100	3.630
33298(-E)	1200	3.960
27693	1300	4.290
33299	1400	4.648
26937(-E)	1500	4.950
28618	1600	5.335
33300	1700	5.638
30012	1800	5.940
33301	1900	6.313
26939(-E)	2000	6.600
26941	2500	8.100
26943(-E)	3000	9.800
26945	3500	11.400
26947(-E)	4000	13.000
26949	4500	14.700
26951(-E)	5000	16.300
26953	5500	17.900
26955(-E)	6000	19.500

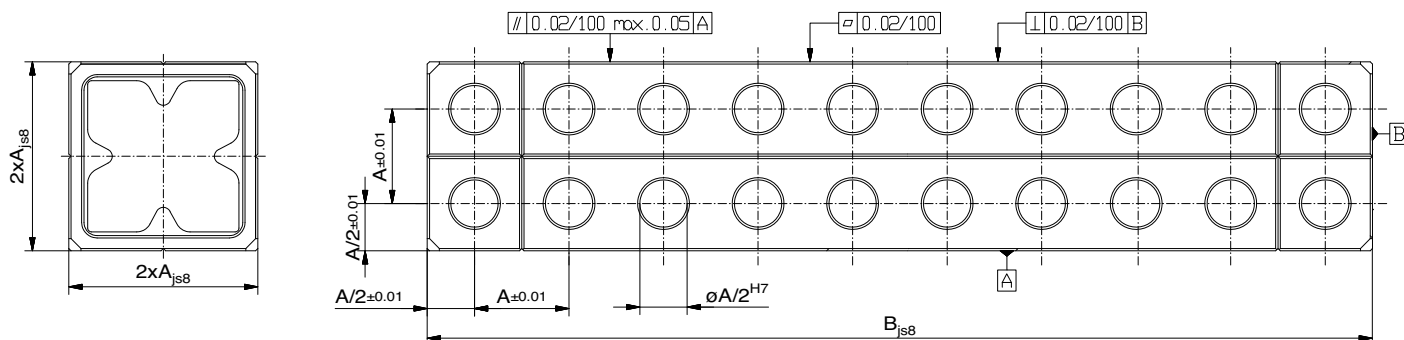
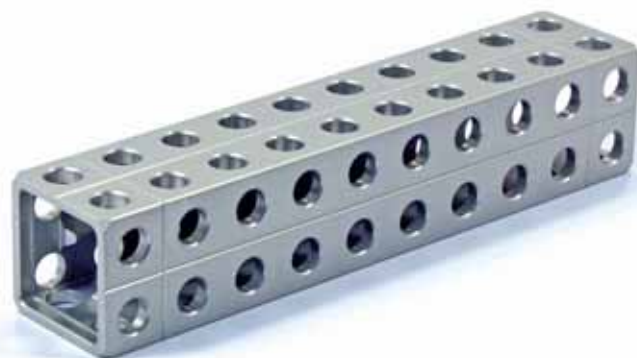


ALUFIX CLASSIC bars can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request

Other dimensions on request

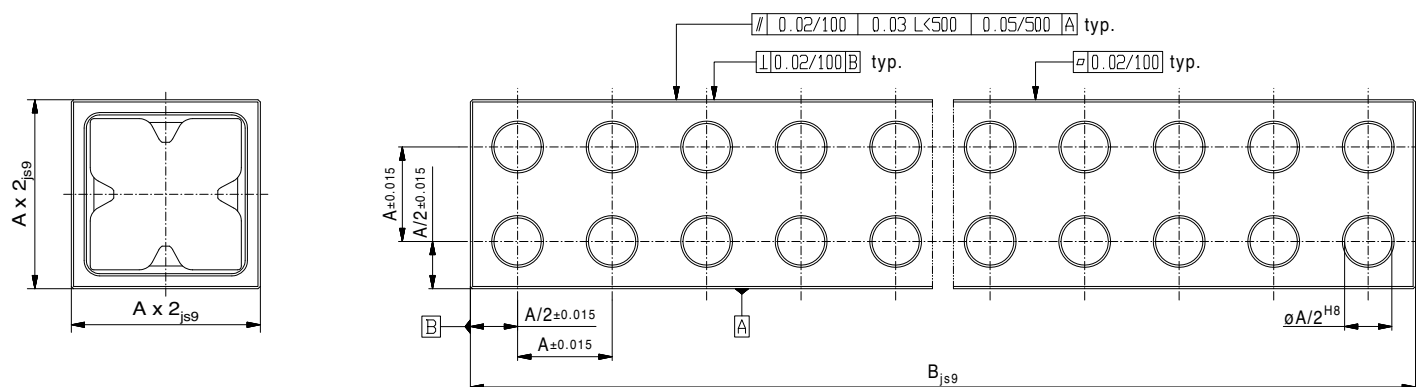
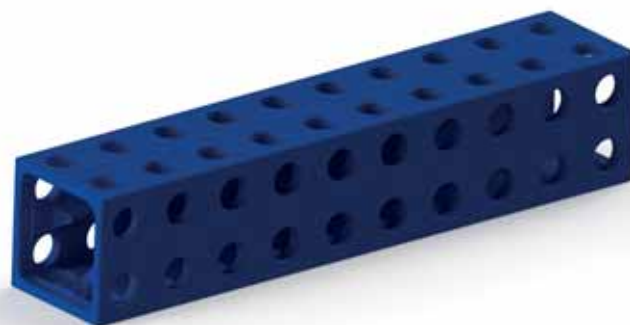
ALUFIX CLASSIC

Light Bar two row



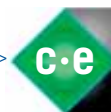
ALUFIX ECO

Light Bar two row



ALUFIX CLASSIC bars can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request

Preference item:
Articles with green diamond → are available ex stock!



→ Article colour anodized natural
→ Classic and/or ECO
→ Article colour anodized black

AF25 Light CLASSIC/ECO

Two row bar 50x50

Grid (A) 25, hole diameter 12,5mm

Nr.(-ECO)	B	g
26617(-E)	50	108
25375(-E)	100	215
20426(-E)	150	323
20427(-E)	200	430
22949(-E)	250	538
20254(-E)	300	645
24246(-E)	350	753
20256(-E)	400	860
24248(-E)	450	968
22950(-E)	500	1.075
24249	550	1.183
24250(-E)	600	1.290
24247	650	1.398
24251(-E)	700	1.505
21824	750	1.613
28353(-E)	800	1.720
26842	850	1.828
24319(-E)	900	1.935
26841	950	2.043
22951(-E)	1000	2.150
27632	1050	2.258
27633	1100	2.365
26849	1150	2.437
25025(-E)	1200	2.580
21825	1250	2.688
27914	1300	2.795
28354	1350	2.903
27915(-E)	1400	3.010
24813	1450	3.118
22952(-E)	1500	3.225
27891	1600	3.440
33287	1700	3.655
33288	1800	3.870
33289	1900	4.085
21226(-E)	2000	4.300

AF40 Light CLASSIC/ECO

Two row bar 80x80

Grid (A) 40, hole diameter 20mm

Nr.(ECO)	B	g
24393(-E)	80	407
24940(-E)	120	610
23937(-E)	160	813
23938(-E)	200	1.017
24392(-E)	240	1.220
24825	280	1.423
24641(-E)	320	1.627
24809(-E)	360	1.830
23559(-E)	400	2.033
25922	440	2.237
24390(-E)	480	2.440
24808	520	2.643
24389	560	2.846
24451(-E)	600	3.050
24391	640	3.253
24454	680	3.456
24388	720	3.660
24826	760	3.863
23560(-E)	800	4.066
24629	840	4.270
26609	880	4.473
25095	920	4.676
25877	960	4.880
24624(-E)	1000	5.083
24807	1080	5.490
24943	1120	5.693
23561(-E)	1200	6.100
25317	1240	6.303
24806	1280	6.506
26003	1320	6.710
25094	1400	7.116
24630	1520	7.726
23562(-E)	1600	8.133
27202	1680	8.539
25629	1760	8.946
29781	1840	9.353
24946	1920	9.759
23563(-E)	2000	10.166
23564-E	2400	14.400
25034-E	3000	18.000
23567-E	3600	21.600
23568-E	4000	24.000
23570-E	4800	28.800

AF50 Light CLASSIC/ECO

Two row bar 100x100

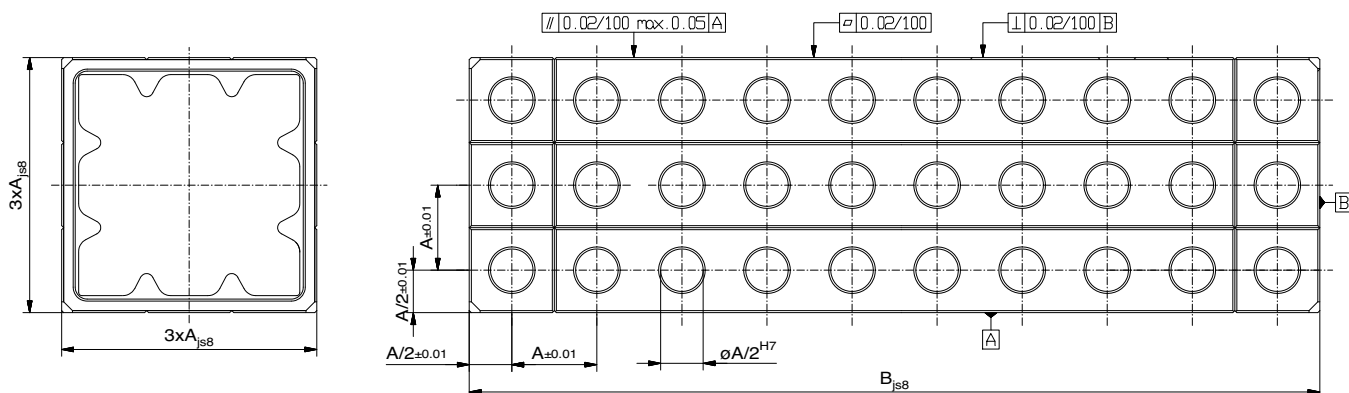
Grid (A) 50, hole diameter 25mm

Nr.(ECO)	B	g
27569(-E)	100	839
28122(-E)	150	1.258
26735(-E)	200	1.678
27504(-E)	250	2.097
26821(-E)	300	2.516
27607	350	2.936
26786(-E)	400	3.355
26820	450	3.775
26787(-E)	500	4.194
26788(-E)	600	5.033
26818	700	5.872
27505(-E)	800	6.710
26789	900	7.549
26957(-E)	1000	8.388
27610	1100	9.227
27920(-E)	1200	10.066
27611	1300	10.904
27919	1400	11.743
26959(-E)	1500	12.582
27923	1600	13.421
30752	1700	14.260
27460	1800	15.098
30959	1900	15.937
26961(-E)	2000	16.767
26963	2500	20.970
26965(-E)	3000	25.164
26967	3500	29.358
26969(-E)	4000	33.552
26971	4500	37.746
26973(-E)	5000	41.940
26975	5500	46.134
26977(-E)	6000	50.328



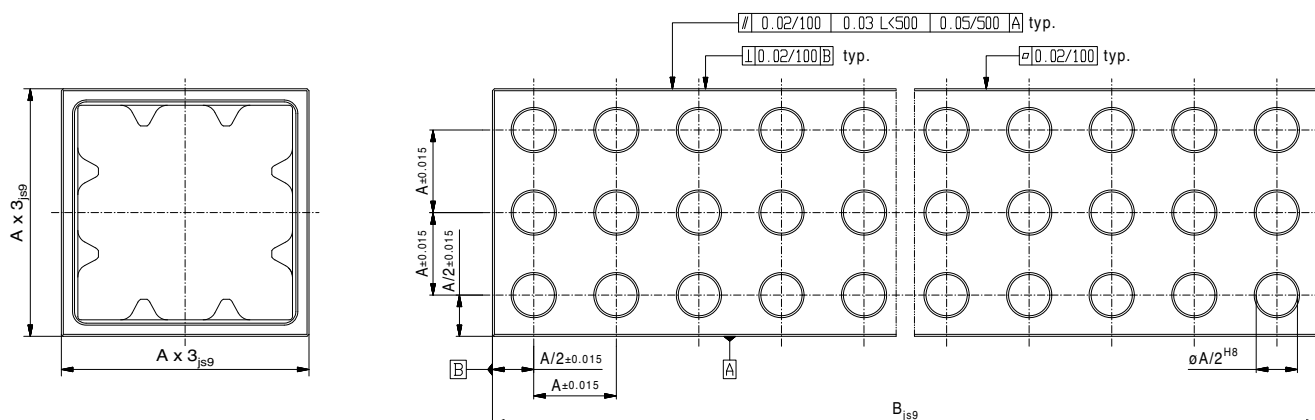
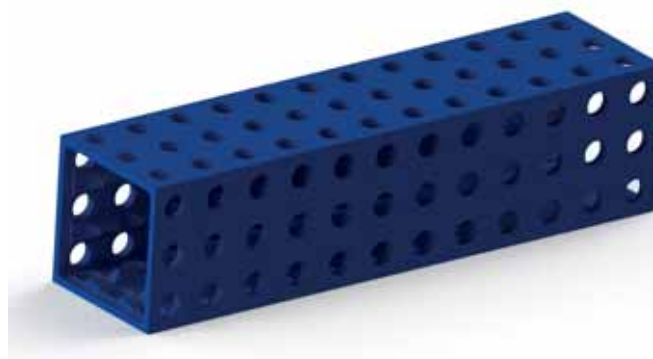
ALUFIX CLASSIC

Light Bar three row



ALUFIX ECO

Light Bar three row



i ALUFIX CLASSIC bars can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request

AF25 Light CLASSIC

Three row bar 75x75

Grid (A) 25, hole diameter 12,5mm

Nr.(ECO)	B	g
24882-E	100	343
25075	150	514
25376-E	200	686
22617	250	857
25076-E	300	1.029
26002	350	1.200
27412-E	400	1.372
25078	450	1.543
22618-E	500	1.715
33091	550	1.886
33090-E	600	2.057
32352	650	2.229
33041	700	2.400
22619	750	2.572
31538-E	800	2.743
32350	850	2.915
27223	900	3.086
26894	950	3.258
22621-E	1000	3.429
33551	1050	3.600
25080	1100	3.772
29685	1150	3.943
30751-E	1200	4.115
22623	1250	4.286
27855	1300	4.458
33050	1350	4.629
33060	1400	4.801
33552	1450	4.972
22624-E	1500	5.144
33290	1600	5.486
33089	1700	5.829
33291	1800	6.172
33292	1900	6.515
22771-E	2000	6.858

AF40 Light CLASSIC

Three row bar 120x120

Grid (A) 40, hole diameter 20mm

Nr.(ECO)	B	g
24950-E	160	1.404
25123-E	200	1.755
24951-E	240	2.106
24827	280	2.457
24952-E	320	2.808
25122-E	360	3.159
23574-E	400	3.510
25735	440	3.861
24931	480	4.212
26008	520	4.563
25121	560	4.914
25124-E	600	5.265
25736	640	5.616
27458	680	5.967
24930	720	6.318
24828	760	6.669
23575-E	800	7.020
25029	840	7.371
25843	880	7.722
27597	920	8.073
24929	960	8.424
27435-E	1000	8.775
25028	1080	9.477
27169	1160	10.179
23576-E	1200	10.530
27601	1280	11.232
26892	1360	11.934
24953	1400	12.285
24829	1480	12.987
25310	1560	13.689
23577-E	1600	14.040
25950	1680	14.742
29918	1760	15.444
25737	1800	15.795
27538	1880	16.497
23578-E	2000	17.550
27602	2200	19.305
23579-E	2400	22.300
27453-E	3000	27.900
23582-E	3600	33.500
23583-E	4000	37.200
23585-E	4800	44.600

AF50 Light CLASSIC

Three row bar 150x150

Grid (A) 50, hole diameter 25mm

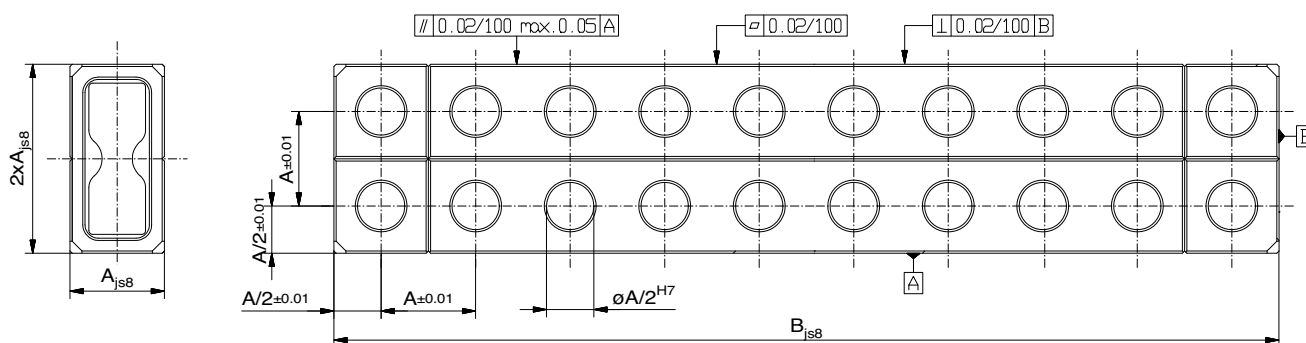
Nr.(ECO)	B	g
28123-E	100	1.389
28124-E	150	2.083
28125-E	200	2.777
27521-E	250	3.472
26817-E	300	4.166
28126	350	4.860
28127-E	400	5.554
27854	450	6.249
26978-E	500	6.943
33302-E	600	8.332
27522-E	700	9.720
29366-E	800	11.109
27853	900	12.497
26979-E	1000	13.886
33303	1100	15.275
33304-E	1200	16.663
29805	1300	18.052
29699	1400	19.440
26981-E	1500	20.829
33305	1600	22.218
28557	1700	23.606
27606	1800	24.995
33306	1900	26.383
26983-E	2000	27.772
26985	2500	34.715
26987-E	3000	41.658
26989	3500	48.601
26991-E	4000	55.544
26993	4500	62.487
26995-E	5000	69.430
26997	5500	76.373
26999-E	6000	83.316



Other dimensions on request

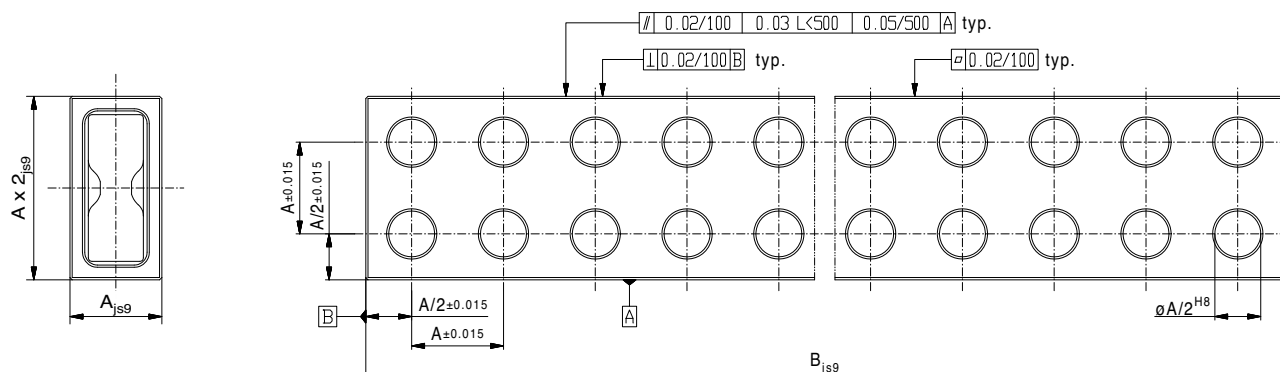
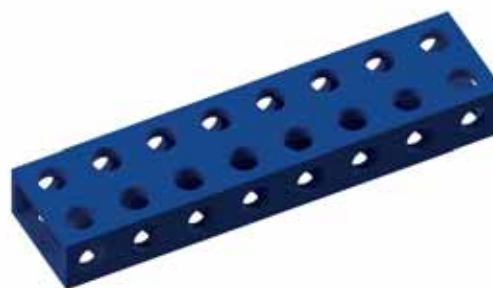
ALUFIX CLASSIC

Light Bar rectangular



ALUFIX ECO

Light Bar rectangular



Preference item:
Articles with green diamond →
are available ex stock!



→ Article colour anodized natural
→ Classic and/or ECO
→ Article colour anodized black

AF25 Light CLASSIC

Rectangular bar 25x50

Grid (A) 25, hole diameter 12,5mm

Nr.(ECO)	B	g
55090(-E)	50	68
55091(-E)	100	136
55092(-E)	150	204
55093(-E)	200	272
55094(-E)	250	340
55095(-E)	300	408
55096	350	476
55097(-E)	400	544
55098	450	612
55099(-E)	500	680
55100	550	748
55101(-E)	600	816
55102	650	884
55103	700	952
55104	750	1.020
55105(-E)	800	1.088
55106	850	1.156
55107	900	1.224
55108	950	1.292
55109(-E)	1000	1.360
55110	1050	1.428
55111	1100	1.496
55112	1150	1.564
55113(-E)	1200	1.632
55114	1250	1.700
55115	1300	1.768
55116	1350	1.836
55117	1400	1.904
55118	1450	1.972
55119(-E)	1500	2.040
55120	1550	2.108
55121	1600	2.176
55122	1650	2.244
55123	1700	2.312
55124	1750	2.380
55125	1800	2.448
55126	1850	2.516
55127	1900	2.584
55129(-E)	2000	2.720

AF40 Light CLASSIC

Rectangular bar 40x80

Grid (A) 40, hole diameter 20mm

Nr.(ECO)	B	g
57400(-E)	80	286
57401(-E)	120	428
57402(-E)	160	571
57403(-E)	200	714
57404(-E)	240	857
57405(-E)	280	1.000
57406(-E)	320	1.142
57407	360	1.285
57408(-E)	400	1.428
57409	440	1.571
57410(-E)	480	1.714
57411	520	1.856
57412	560	1.999
57413(-E)	600	2.142
57414	640	2.285
57415	680	2.428
57416	720	2.570
57417	760	2.713
57418(-E)	800	2.856
57419	840	2.999
57420	880	3.142
57421	920	3.284
57422	960	3.427
57423(-E)	1000	3.570
57424	1040	3.713
57425	1080	3.856
57426	1120	3.998
57427	1160	4.141
57428(-E)	1200	4.284
57429	1240	4.427
57430	1280	4.570
57431	1320	4.712
57432	1360	4.855
57433	1400	4.998
57434	1440	5.141
57435	1480	5.284
57436	1520	5.426
57437	1560	5.569
57438(-E)	1600	5.712

AF40 Light CLASSIC

Rectangular bar 40x80

Grid (A) 40, hole diameter 20mm

Nr.(ECO)	B	g
57439	1640	5.855
57440	1680	5.998
57441	1720	6.140
57442	1760	6.283
57443	1800	6.426
57444	1840	6.569
57445	1880	6.712
57446	1920	6.854
57447	1960	6.997
57448(-E)	2000	7.140
57449	2040	7.283
57450	2080	7.426
57451	2120	7.568
57452	2160	7.711
57453	2200	7.854
57454	2240	7.997
57455	2280	8.140
57456	2320	8.282
57457	2360	8.425
57458	2400	8.568
57459	2440	8.711
57460	2480	8.854
57461	2520	8.996
57462	2560	9.139
57463	2600	9.282
57464	2640	9.425
57465	2680	9.568
57466	2720	9.710
57467	2760	9.853
57468	2800	9.996
57469	2840	10.139
57470	2880	10.282
7471	2920	10.424
57472	2960	10.567
57473(-E)	3000	10.710

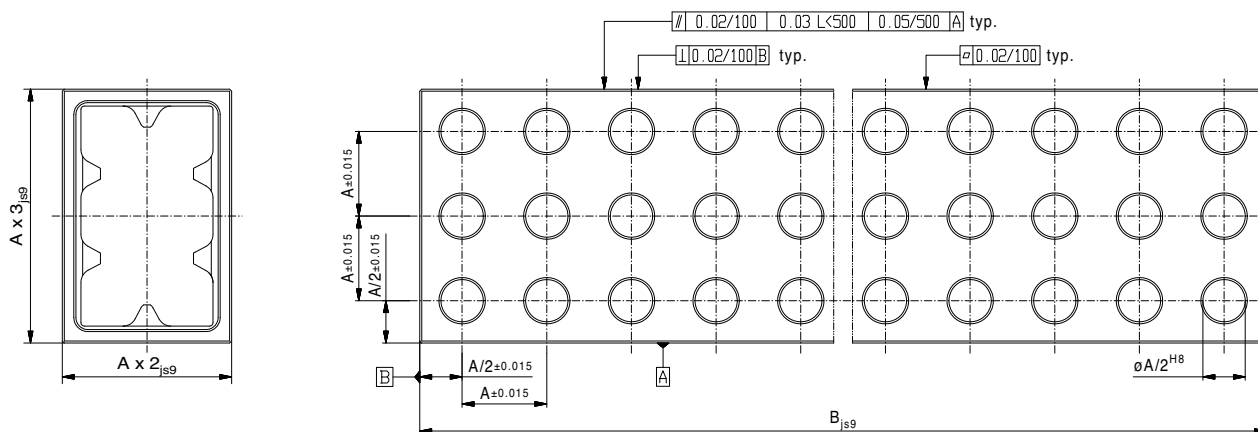


ALUFIX CLASSIC bars can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request

Other dimensions on request

ALUFIX ECO

Light Bar rectangular



AF40 ECO

A=40, 80 x 120

Nr.	B	
122285-E	160	1.000
122286-E	200	1.250
122287-E	240	1.500
122289-E	320	2.000
122290-E	360	2.250
122291-E	400	2.500
122296-E	600	3.750
122301-E	800	5.000
122306-E	1000	6.250
122311-E	1200	7.500
122321-E	1600	10.000
122331-E	2000	12.500
122341-E	2400	15.000
122354-E	3000	18.750
122369-E	3600	22.500
122379-E	4000	25.000
122578-E	4800	30.000



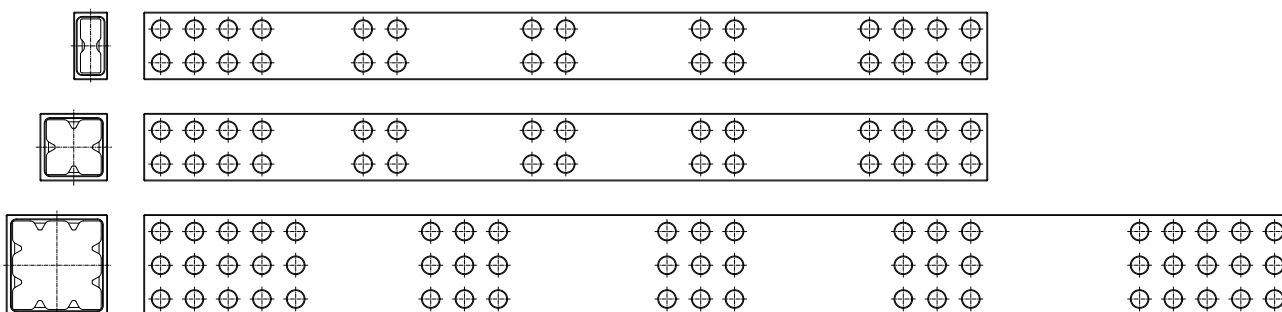
ALUFIX CLASSIC bars can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request

ALUFIX ECO

Light Bar SX

Alufix Light bars SX with reduced number of drilled holes are an economical alternative to normal Light bars.

Alufix Light bars SX are available on request in the same dimensions as normal Light bars.



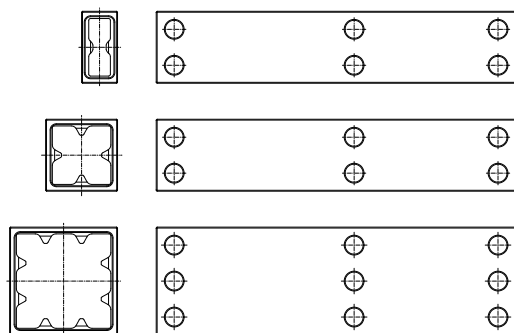
Light bar SX: With strategically placed hole rows
Dimensions for position and type of hole grids on request or
on our homepage www.alufix.de

ALUFIX ECO

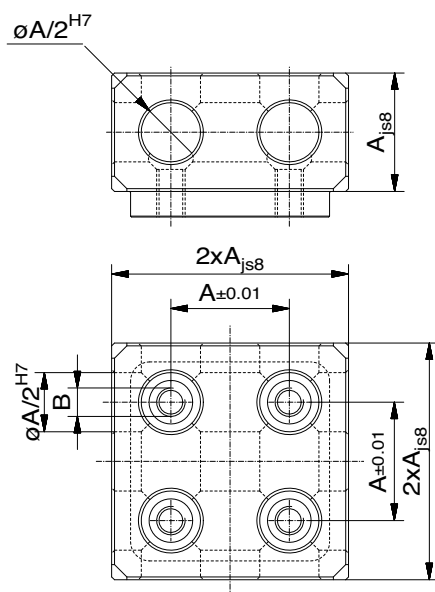
Light Bar CX

Alufix Light bars CX with reduced number of drilled holes are an economical alternative to normal Light bars.

Alufix Light bars CX are available on request in the same dimensions as normal Light bars.



Light bars CX: For column type design with one row of holes at each end. With further rows of one hole to mount struts depending on the length
Dimensions for position and type of hole grids on request or
on our homepage www.alufix.de



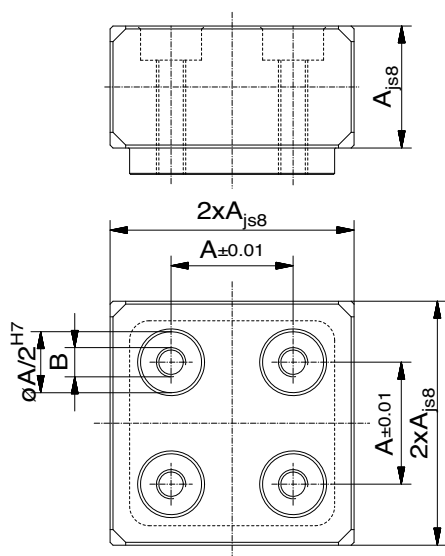
Coupling plate, universal

For Light bars

Nr.	AF	A	B	g
332856	25	25	M6	134
332857	40	40	M10	550
332858	50	50	M12	940



Recommended for face end connections of quick change couplings and guiding, roller slides



Coupling plate

For Light bars

Nr.	AF	A	B	g
333626	25	25	M6	141
333627	40	40	M10	578
333628	50	50	M12	987

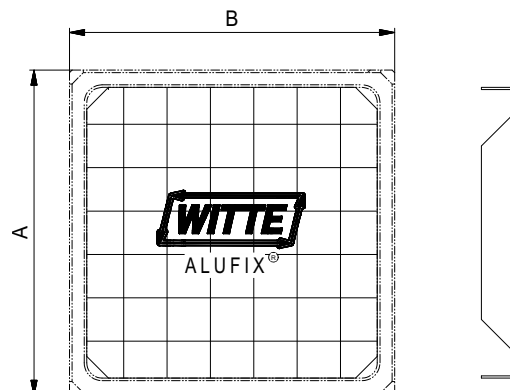


Blind covers

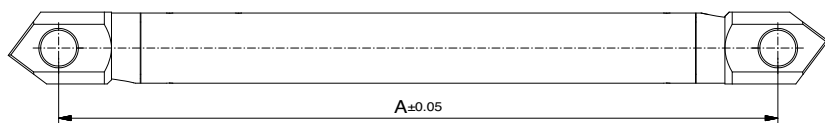
out of Aluminium for

ALUFIX Light CLASSIC and **ALUFIX ECO**

Nr.	System	A	B	
56494	AF 25	25	25	
56495	AF 25	25	50	
51041	AF 25	50	50	
123481	AF 25	50	75	
51042	AF 25	75	75	
52315	AF 40	40	40	
54598	AF 40	40	80	
51043	AF 40	80	80	
122401	AF 40	80	120	
51044	AF 40	120	120	
54599	AF 50	50	50	
51045	AF 50	100	100	
51046	AF 50	150	150	



Struts



AF25 CLASSIC

Strut, 25x25

Grid 25, hole diameter 12,5mm

Nr.	A	B	g
81443	125	25	168
81444	250	25	285
81445	375	25	402
81327	500	25	518
81328	625	25	641
81329	750	25	752
81330	875	25	872
81331	1000	25	979

AF40 CLASSIC

Strut, 40x40

Grid 40, hole diameter 20mm

Nr.	A	B	g
81446	200	40	700
81447	400	40	1.226
81448	600	40	1.400
81407	800	40	2.258
81408	1000	40	2.240
81409	1200	40	3.161
81410	1400	40	3.470
81411	1600	40	4.170

AF50 CLASSIC

Strut, 50x50

Grid 50, hole diameter 25mm

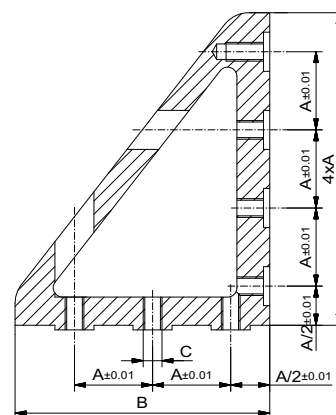
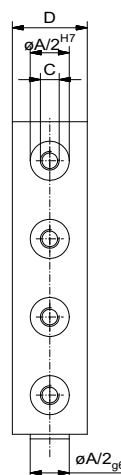
Nr.	A	B	g
82403	250	50	1.424
82404	500	50	2.534
82405	750	50	3.637
82406	1000	50	5.696
82407	1250	50	7.120
82408	1500	50	8.544
82409	1750	50	9.968
82410	2000	50	11.392

Profile angle brackets

Nr.	A (AF)	B	C	D	g
120511	25	81,5	6	24	194
120514	25	121,5	6	24	319
120512	40	81,5	10	39	315
120515	40	121,5	10	39	518
120513	50	81,5	12	49	396
120516	50	122,5	12	49	651

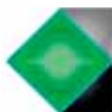


Profile angle brackets are also available in special lengths of up to 3000mm



Profile angle brackets are also available on request in special widths

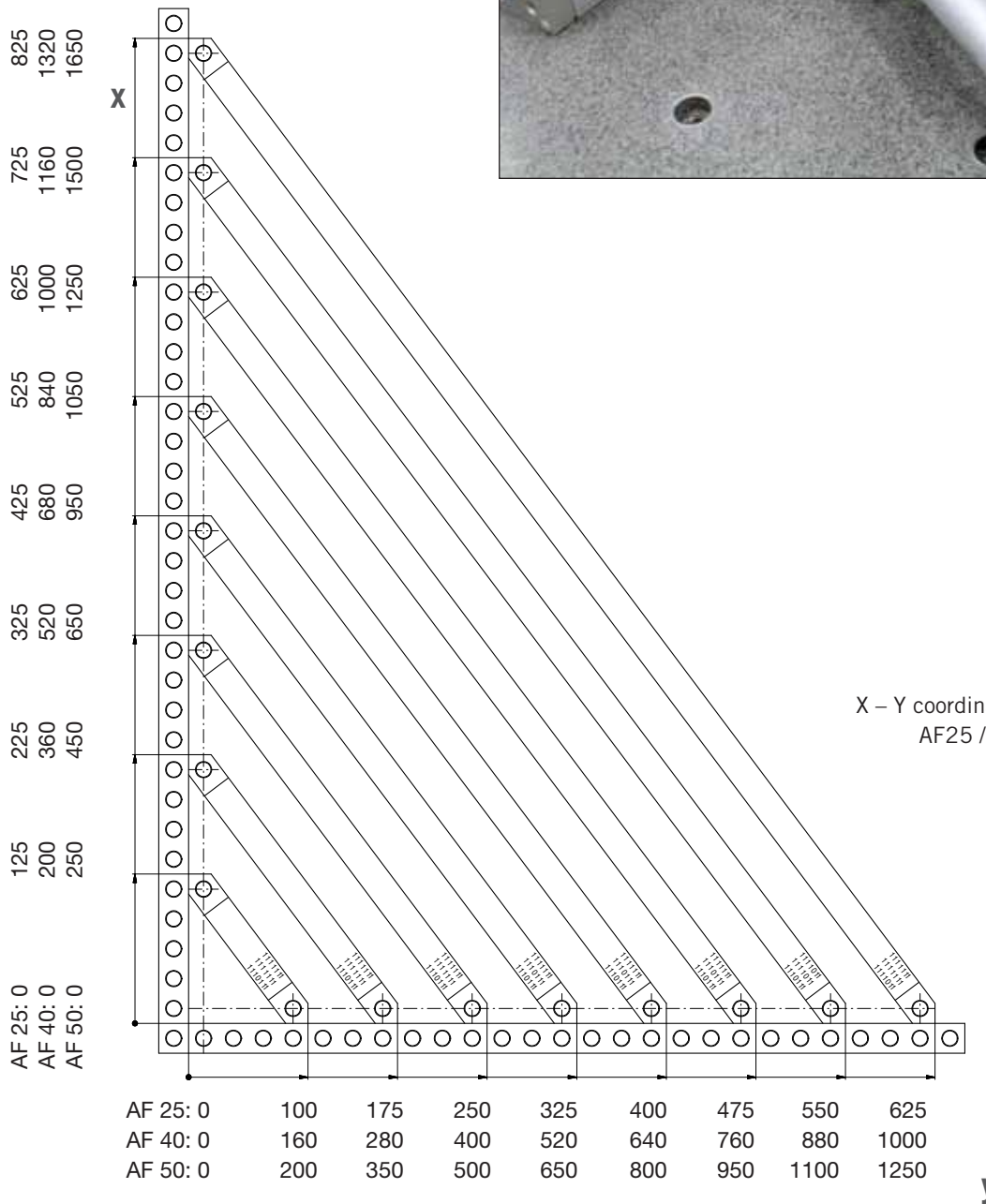
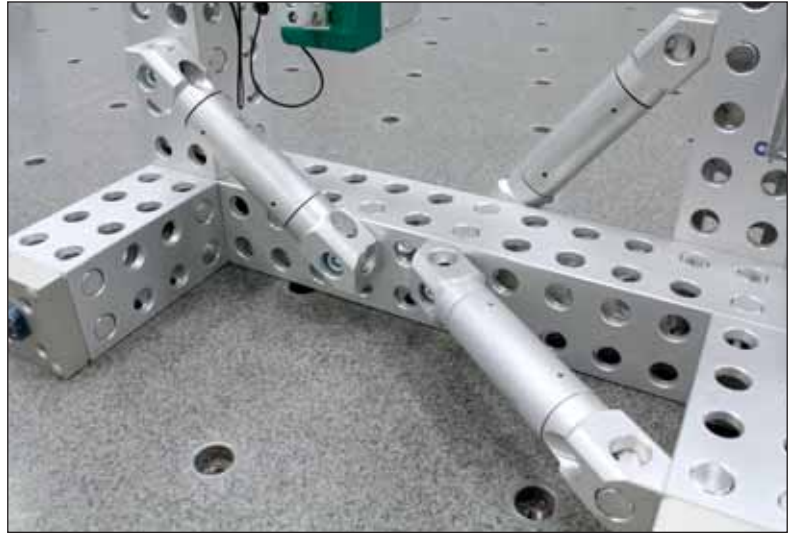
Preference item:
Articles with green diamond →
are available ex stock!



→ Article colour anodized natural

→ Article colour anodized black

ALUFIX CLASSIC Struts



ALUFIX CLASSIC elements can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request.

ALUFIX CLASSIC

Quick Change Couplings

Quick change couplings comprise of a top and bottom section, which are aligned accurately together via ball seats. Locking is done with a short turn on a quick fastener. The total height is exactly in Alufix grid. Hinges connect top and bottom sections if required and provide a fold function. The modular design enables following combination possibilities:

Quick change coupling,
Top and bottom sections separately, standard version



Quick change coupling
for folding back, hinge is
mounted at the rear



Quick change coupling
to fold sideways to the left, hinge is
mounted on the left



Quick change coupling
to fold sideways to the right, hinge is
mounted on the right



Quick change coupling with two folding options
One hinge on the left and one at the rear.
Not shown, one hinge on the right, one hinge at the rear



Quick change coupling with three folding options
One hinge on the left, one on the right and one at the rear.

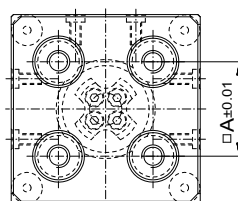
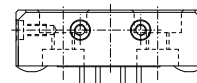
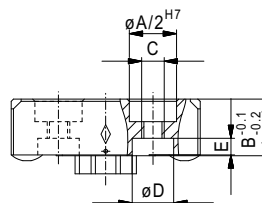
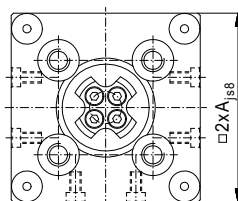


ALUFIX CLASSIC elements can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request.

Quick change coupling top section

with hinge bores, complete

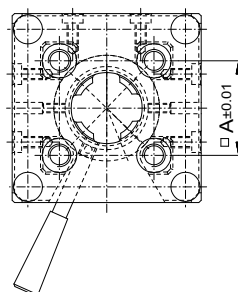
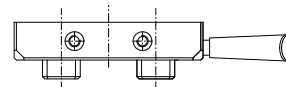
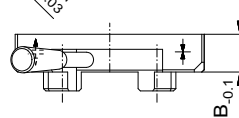
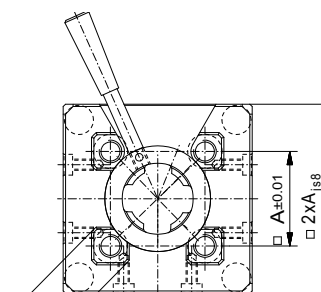
	Nr.	A (AF)	B	C	D	E	
	282471	25	15	M6	11	4,4	101
	282472	40	24	M10	18	6,4	415
	282473	50	30	M12	20	7,6	810
	283320	40/25	24	M6	11	4,4	415
	283330	50/25	30	M6	11	4,4	810



Quick change coupling bottom section

with hinge bores, complete

	Nr.	A (AF)	B	
	282474	25	10	75
	282475	40	16	305
	282476	50	20	550

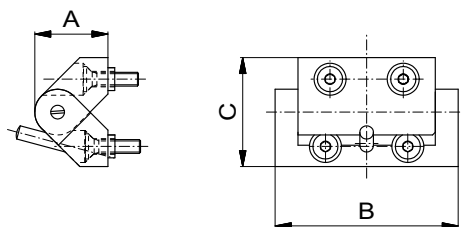


Preference item:
Articles with green diamond $\rightarrow$
are available ex stock!



$\rightarrow$ Article colour anodized natural
 $\rightarrow$ Classic and/or ECO
 $\rightarrow$ Article colour anodized black

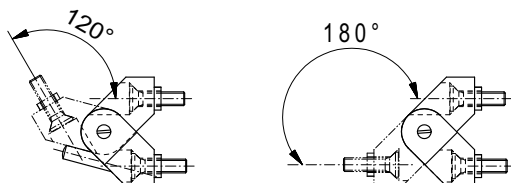
Other versions on request



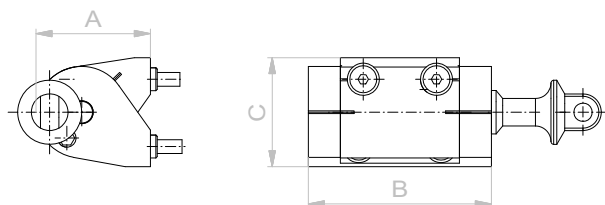
Hinge

for quick change coupling, complete

	Nr.	AF	A	B	C	
	282386	25	16	40	23,8	18
	282387	40	25,6	64	38	91
	282388	50	32	80	47,6	140



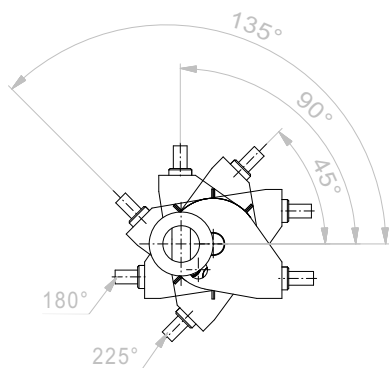
Cylindrical pin limits opening angle to 120°



Hinge

for quick change coupling, with pin

	Nr.	AF	A	B	C	
	286856	25	25	40	23,8	-
	286857	40	36,6	64	38	-
	286858	50	43	80	47,6	-



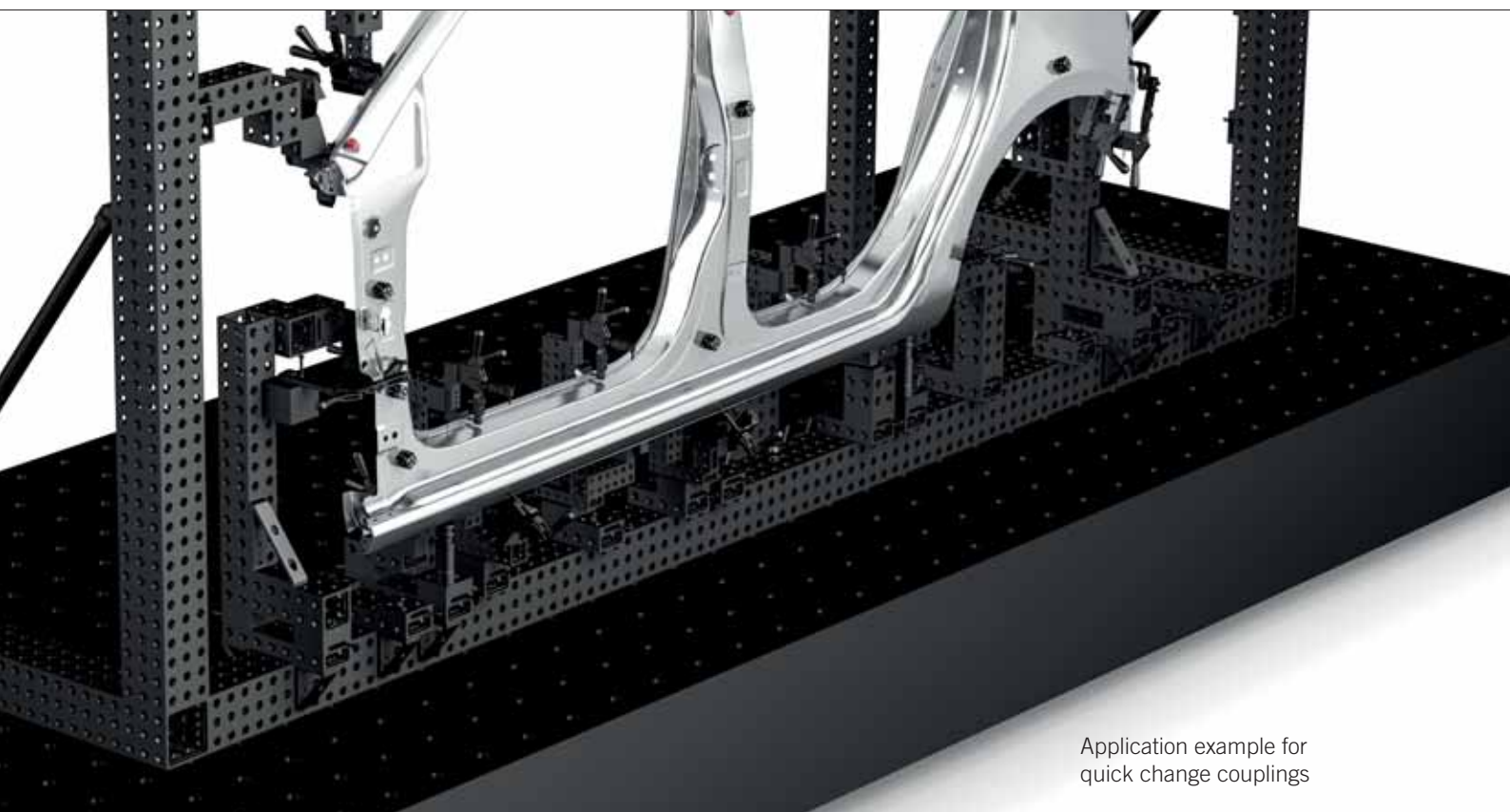
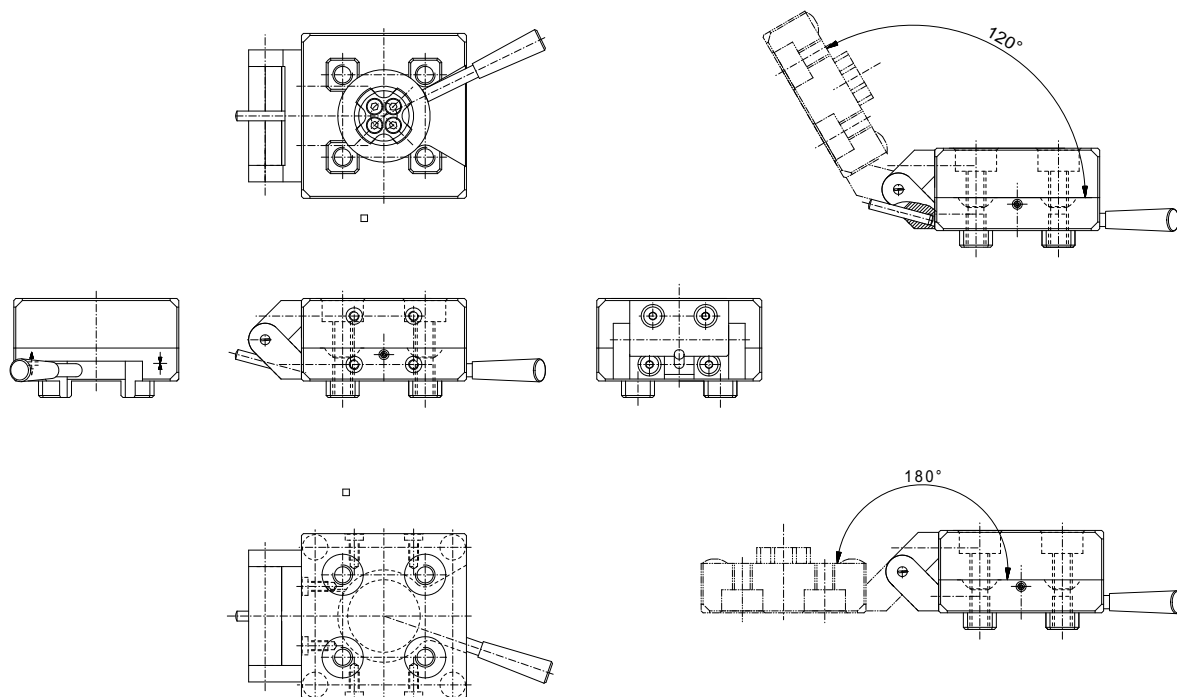
Preference item:
Articles with green diamond →
are available ex stock!



→ Article colour anodized natural
→ Classic and/or ECO
→ Article colour anodized black

Quick change coupling

Assembly



Application example for
quick change couplings



ALUFIX CLASSIC elements can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request.

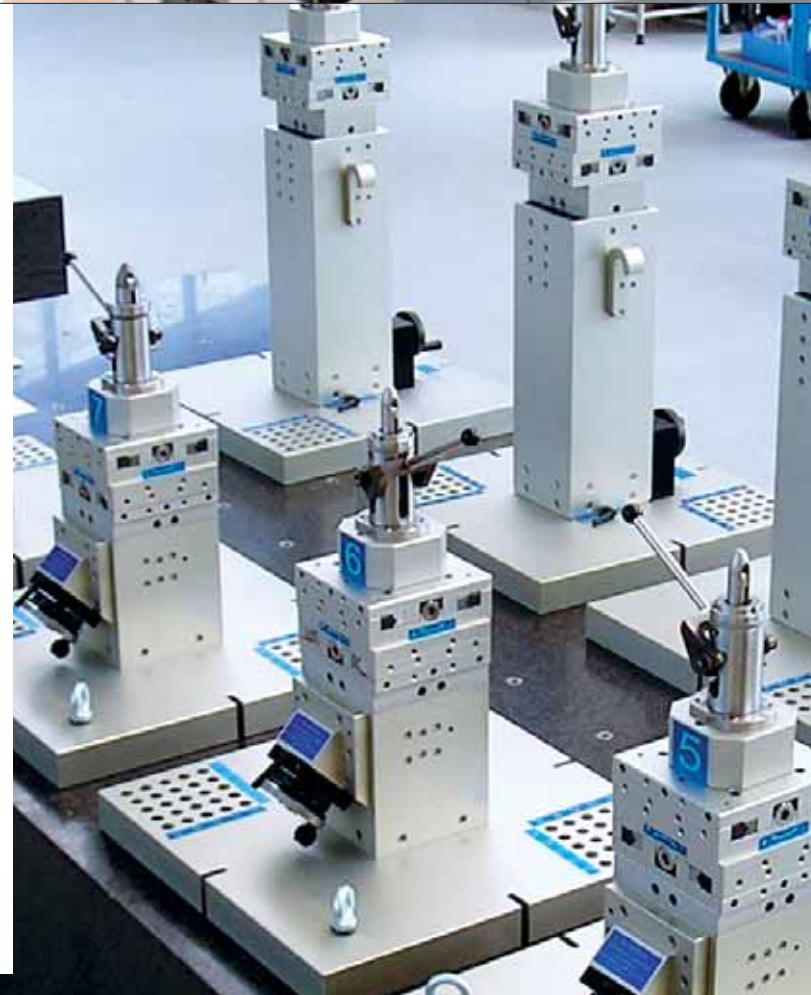
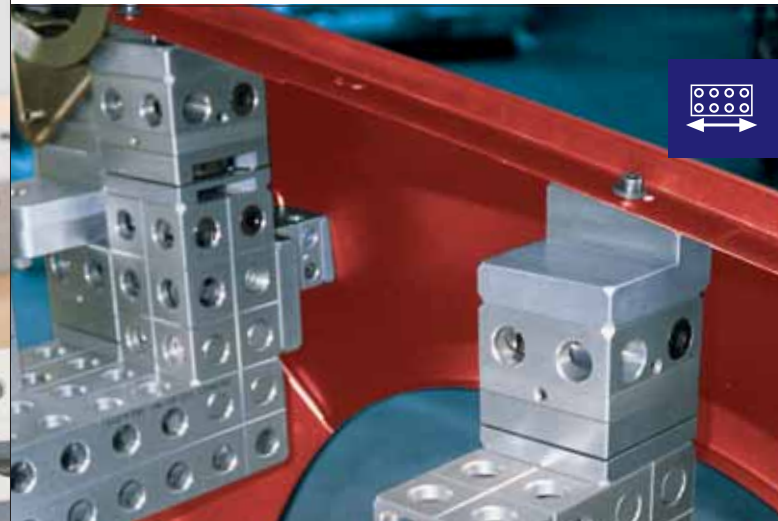
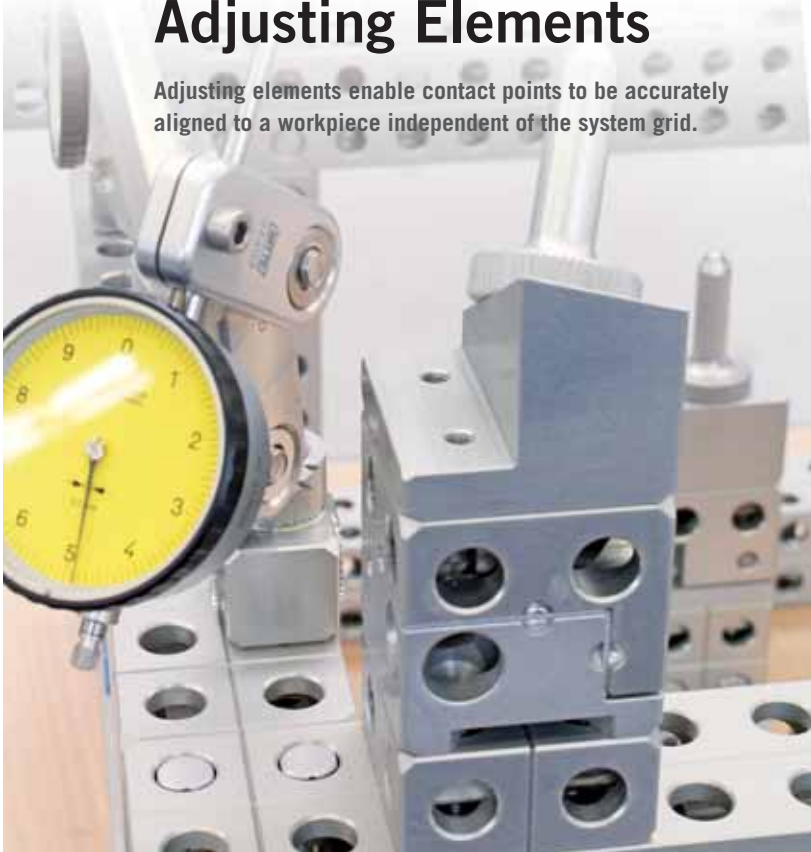
Other versions on request

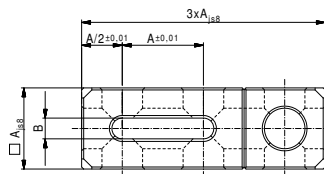


ALUFIX CLASSIC

Adjusting Elements

Adjusting elements enable contact points to be accurately aligned to a workpiece independent of the system grid.

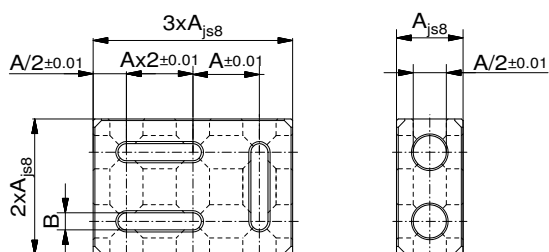




Bar 1D

for positioning in 1 axis independent of grid

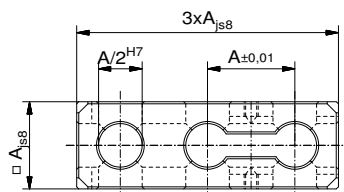
Nr.	A (AF)	B	
20114	16	4,1	20
 23233	25	6,8	80
 23279	40	10,8	320
28040	50	13,7	625



Base plate 2D

for positioning in 2 axes independent of grid

Nr.	A (AF)	B	
20397	16	4,1	40
 23232	25	6,8	160
 23280	40	10,8	1.090
28342	50	13,7	1.266



Bar with 1 offset unit

fine adjustment with a screw connection in 1 axis

Nr.	A (AF)	
81021	25	81
81022	40	347
82764	50	800



Preference item:
Articles with green diamond →
are available ex stock!

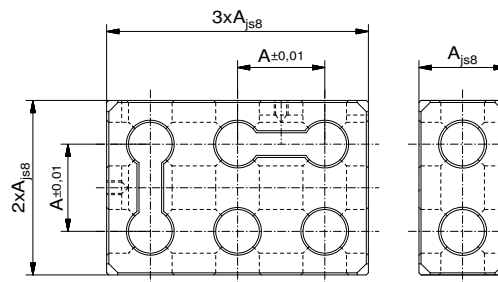


→ Article colour anodized natural
→ Classic and/or ECO
→ Article colour anodized black

Base plate with 2 offset units

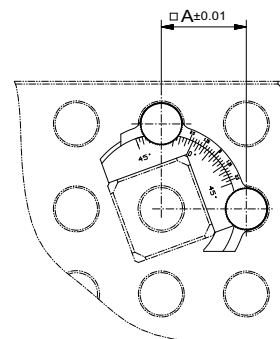
fine adjustment with a
screw connection in 2 axes

Nr.	A (AF)		
81023	25		162
81024	40		707
82765	50		1.400



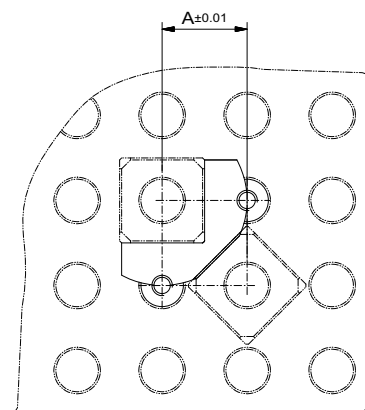
Heel block 45°- 90°

Nr.	A (AF)		
81607	16		4
81390	25		13
81577	40		53
82768	50		69



Heel block 45°/ 90°

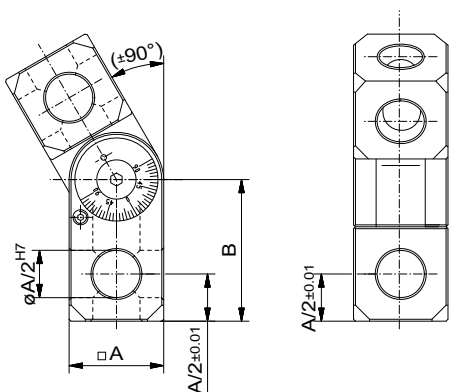
Nr.	A (AF)		
23667	16		3
21426	25		10
21190	40		42
28042	50		54



ALUFIX CLASSIC elements can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request.

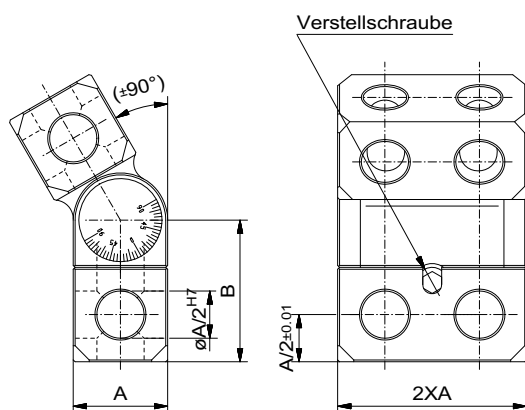


Connection elements for the bars and base plates are shown on pages 148, 149. Other versions on request



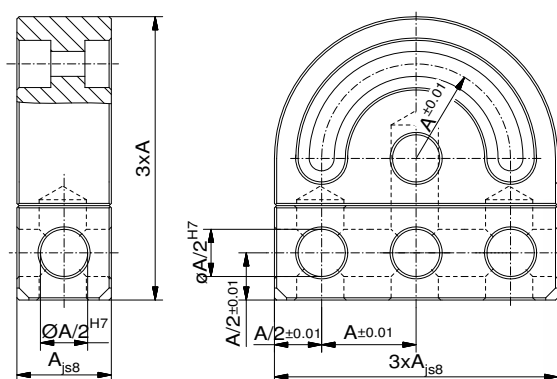
Knuckle

Nr.	A (AF)	B	
81668	16	24	28
81326	25	37,5	108
81462	40	60	446
82767	50	75	860



Double knuckle

Nr.	A (AF)	B	
81811	16	24	65
81028	25	37,5	242
81812	40	60	1.004
82621	50	75	2.442



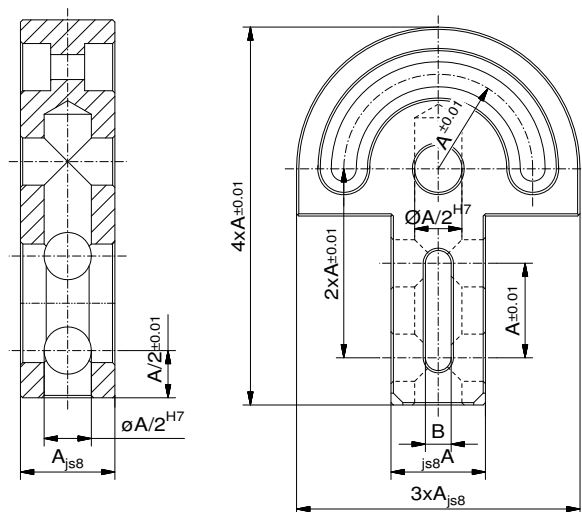
Swivel

Nr.	A (AF)	
24578	16	56
24318	25	216
24579	40	891
28041	50	1.700



Swivel-T

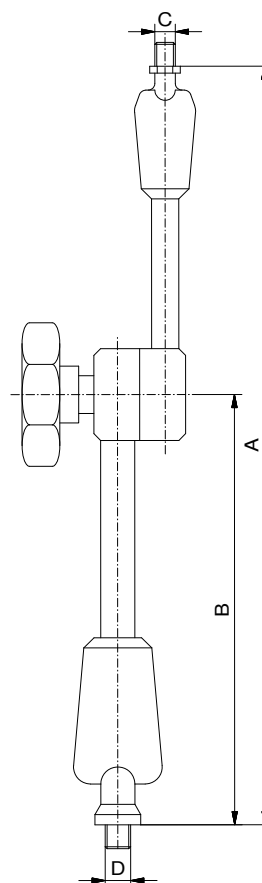
Nr.	A (AF)	B	
30667	25	6,8	195



Swivel arm AF 25

with joint

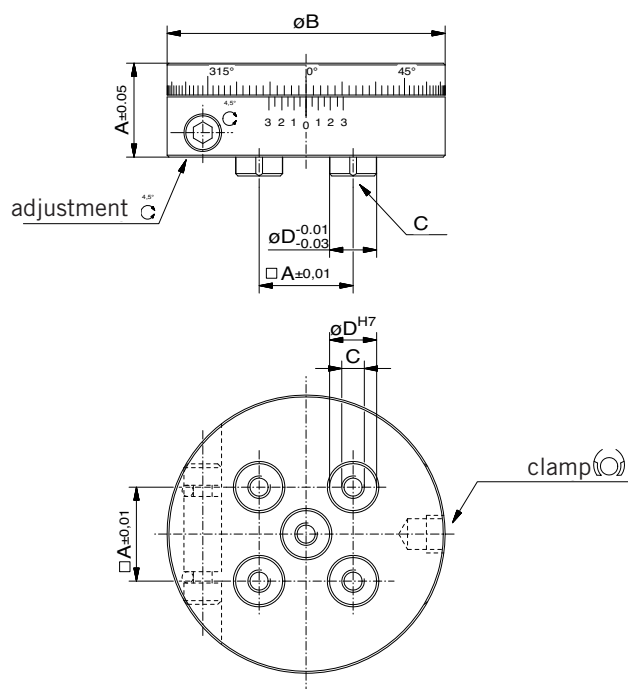
Nr.	A	B	C	D	max. load	
85411	130	70	M6	M6	30 N	135
82121	205	115	M6	M8	40 N	282
82122	285	175	M6	M8	70 N	687



Special connection elements for swivel arms on page 122



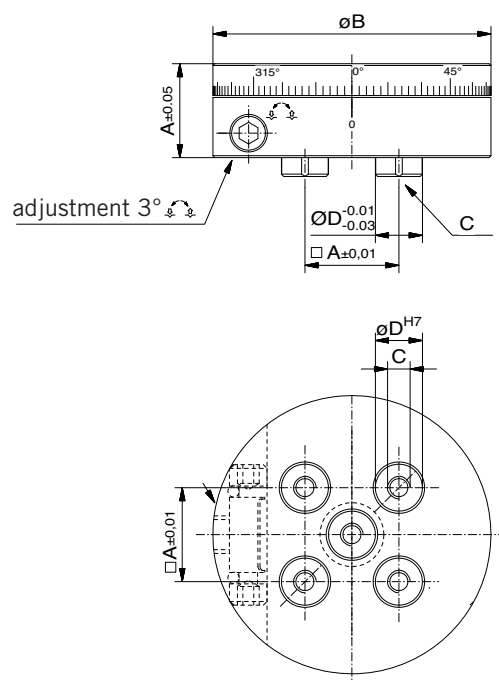
ALUFIX CLASSIC elements can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request.



Rotary plate AF 25

with infinitely variable clamp

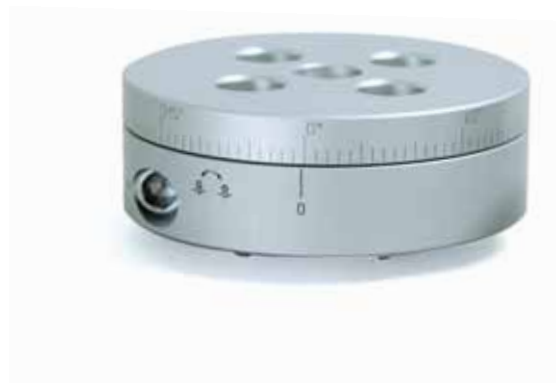
Nr.	A	B	C	D	
96741	25	74	M6	12,5	340
280183	40	120	M10	20	770



Rotary plate AF 25

with 3° settings and lock pin

Nr.	A	B	C	D	
96742	25	74	M6	12,5	340
283780	40	120	M10	20	770



Adapter plate

for keyless chuck D50

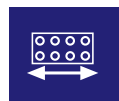
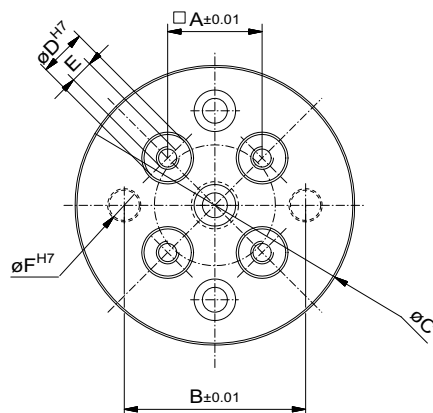
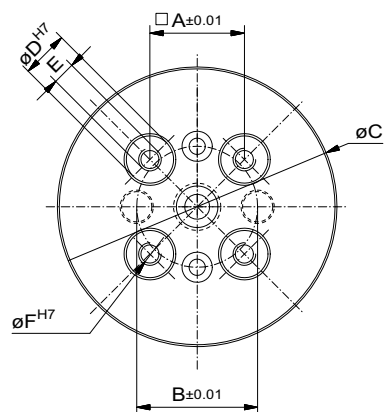
Nr.	A	B	C	D	E	F	
56162	25	32	74	12,5	M6	8	123



for keyless chuck D80

Nr.	A	B	C	D	E	F	
56161	25	48	74	12,5	M6	8	123

Adapter plates also available including suitable connection elements
D50 – **97893**
D80 – **97892**



Application example:
Keyless chuck mounted on
a rotary plate and
Alufix Classic bar

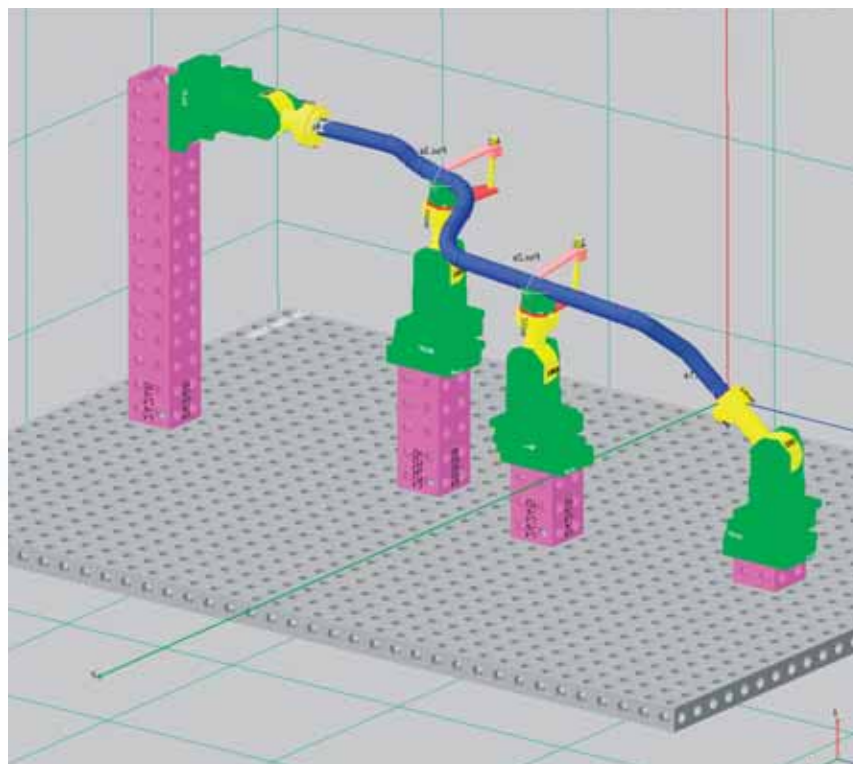


ALUFIX CLASSIC elements can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request.

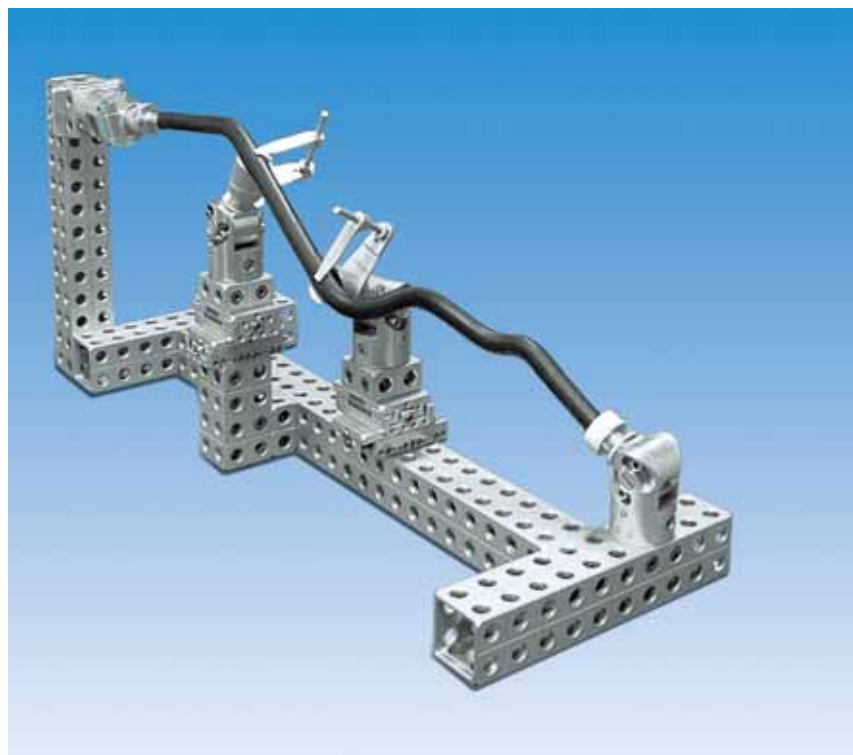


Rotary swing unit

Applications



Measuring fixture for hose.
The positions and angles required are easily calculated with the help of Alufix Expert software (page 238).
Fixtures like this are implemented very quickly.



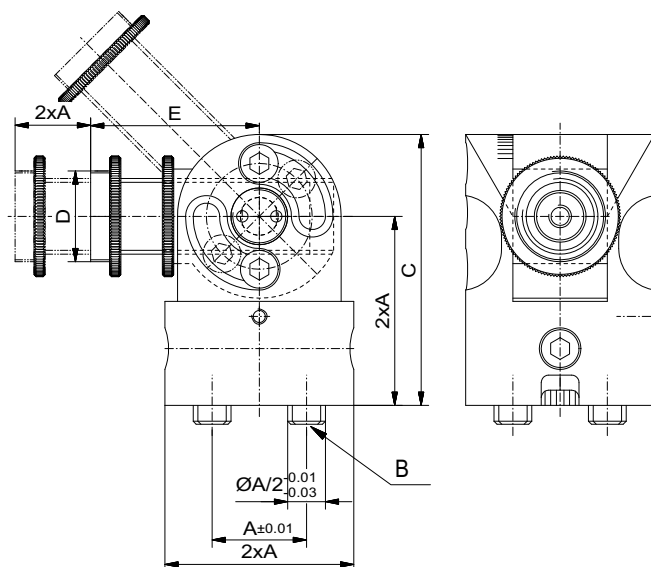
Rotary swing unit

with thread

Nr.	A (AF)	B	C	D	E	
93063	25	M6	72	24x1	44,6	342
99794	40	M10	115	32x1	69	750



Rotary swing unit 99794 for Alufix 40 with worm gear for fine adjustment in both rotating axes



Rotary swing unit

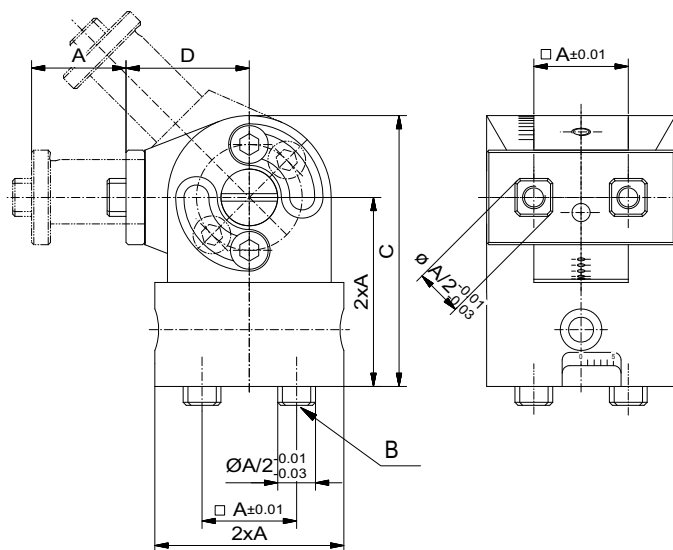
with nubs

Nr.	A (AF)	B	C	D	
93660	25	M6	72	32,6	370
99807	40	M10	115	50	750



Rotary swing unit 99807 for Alufix 40 with worm gear for fine adjustment in both rotating axes

Rotary swing unit 93660 and 99794 for Alufix 40 with fine adjustment



ALUFIX CLASSIC elements can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request.



ALUFIX Jacks

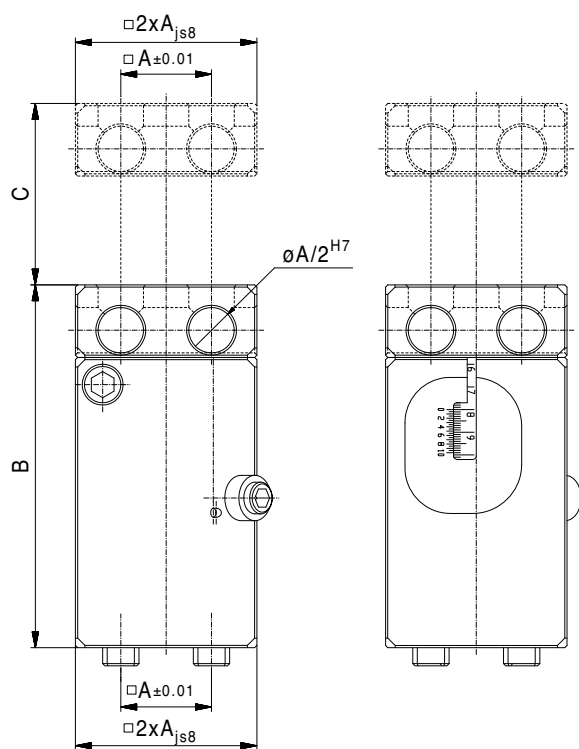
Alufix jacks are used to position and level different sized parts for measuring.

These operator-friendly jacks are configured according to application and customer requirements.

Rack gear jack

with height adjustment using a gear jack, vernier 0,05mm

Nr.	A (AF)	B	C	max. load	
82939	25	75	25	30 kg	486
90538	40	160	80	45 kg	2.660
82821	50	200	100	60 kg	5.523

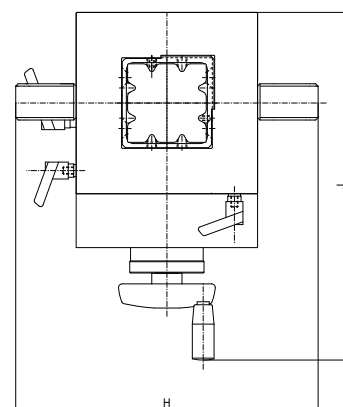
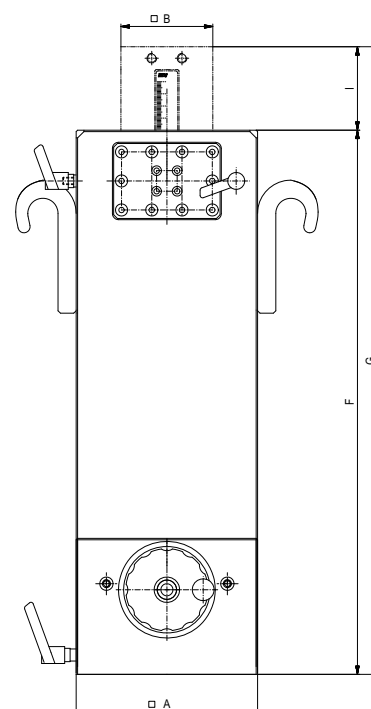
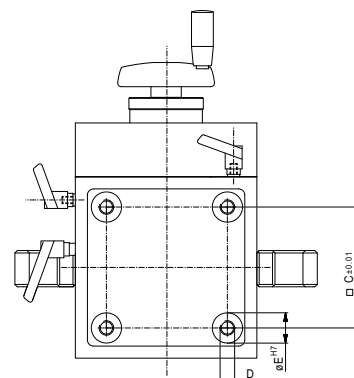


Jack 1000, Heavy Duty

with height adjustment via crank handle, load capacity: 1000kg

Nr.	A	B	C	D	E	F	G	H	I	J	
98230	150	76	100	M12	25	450	700	250	250	288	21.000

Top blocks are not included in jack supply, they must be ordered separately.



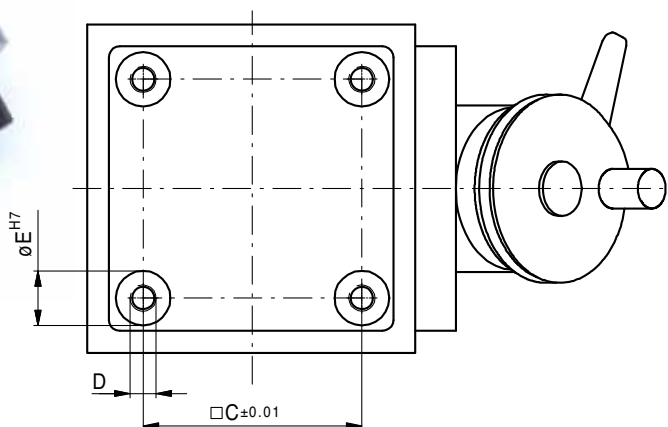
ALUFIX CLASSIC elements can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request.



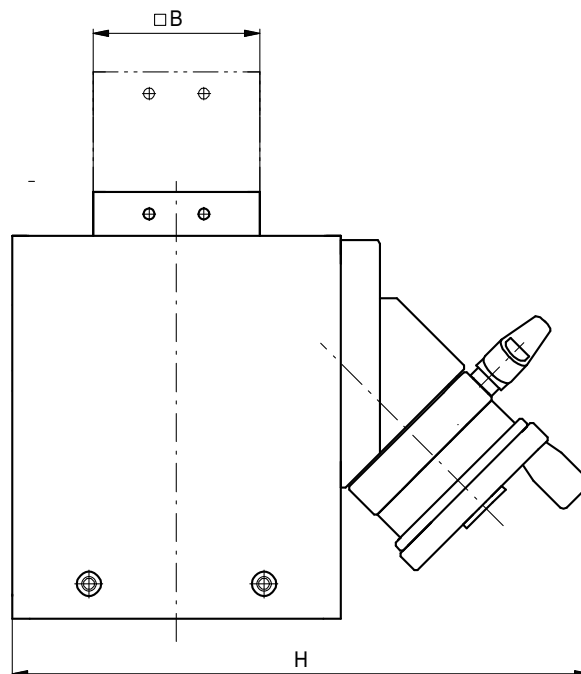
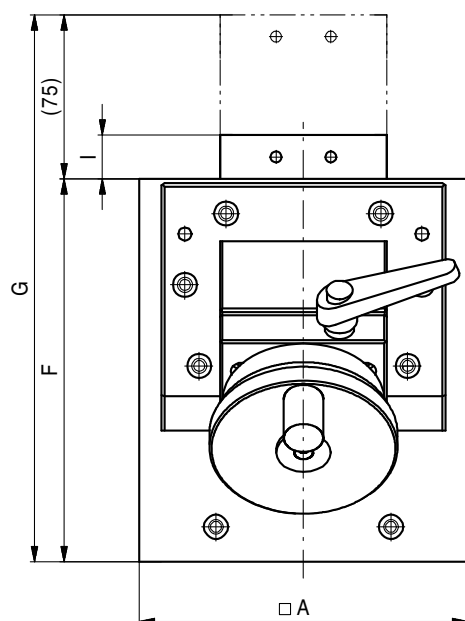
Jack 500

with height adjustment via crank handle,
load capacity: 500kg

Nr.	A	B	C	D	E	F	G	H	I	
92949	150	76	100	M12	25	175	250	265	20	10.115



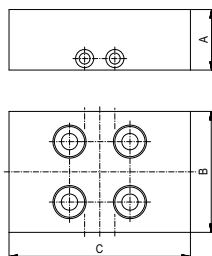
Top blocks are not included in jack supply, they must be ordered separately.



Top block AF50 for jack

with AF50 holes and connectors

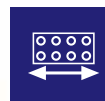
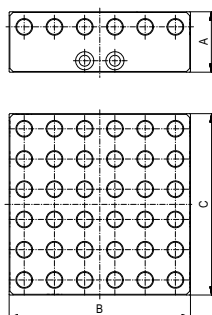
Nr.	A	B	C	
98217	50	100	150	1.924



Top block AF25 for jack

with AF25 grid and connectors

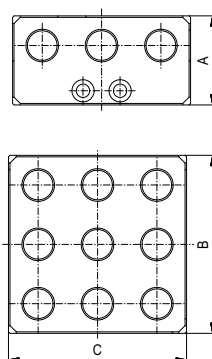
Nr.	A	B	C	
98218	50	150	150	1.823



Top block AF40 for jack

with AF40 grid and connectors

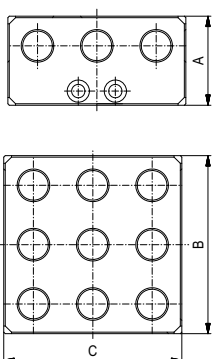
Nr.	A	B	C	
98219	60	120	120	2.150



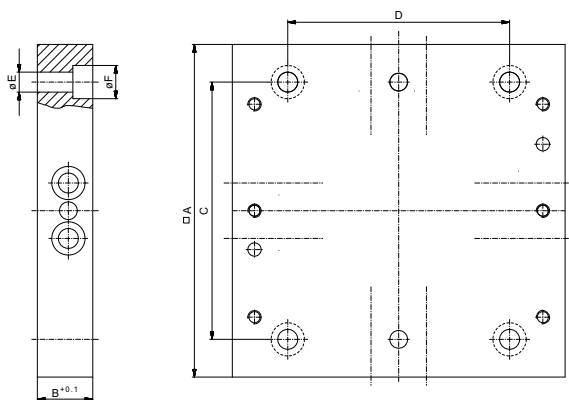
Top block AF50 for jack

with AF50 grid and connectors

Nr.	A	B	C	
98220	75	150	150	4.100



 **ALUFIX CLASSIC** elements can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request.



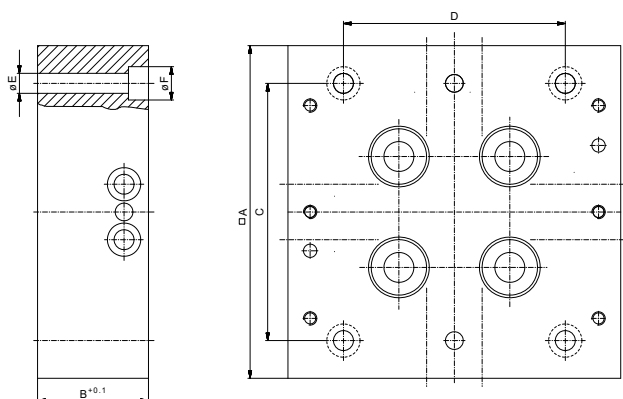
Top block

for jack 92949

Nr.	A	B	C	D	E	F	
289486	150	25	116	100	9	15	1.200



Top blocks are not drilled but can be supplied with customized grid on request



Top block

for jack 92949 with AF50 holes

Nr.	A	B	C	D	E	F	
289487	150	50	116	100	9	15	2.100



ALUFIX CLASSIC elements can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request.

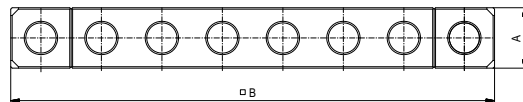


Other dimensions on request

Base plate for jack

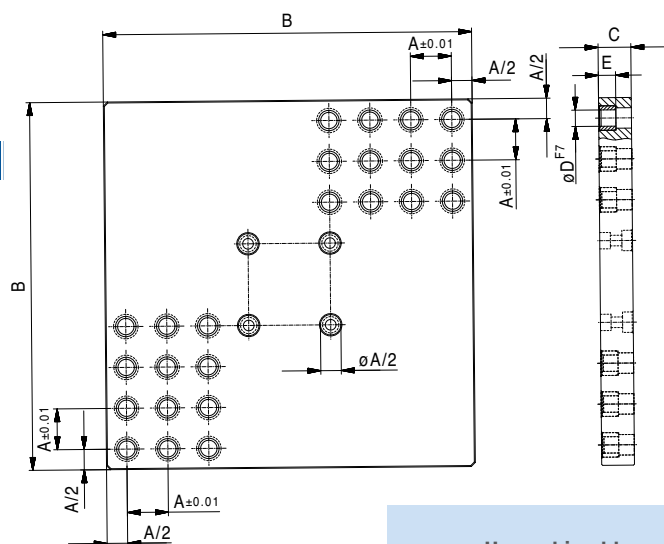
grid AF25, including connectors

Nr.	A	B	
98221	50	400	13.050

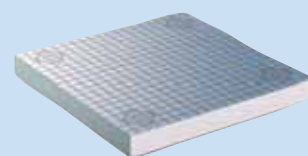


Base plate for jack

Nr.	A	B	C	D	E	
337271	50	450	40	ø20F7	21	21.500



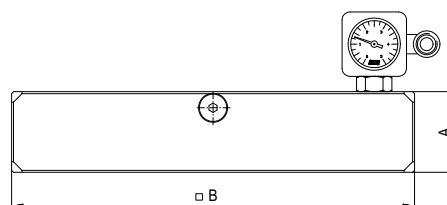
Unmachined base plates for jacks
or individually manufactured
base plates on request



Base plate for jack

with hovercraft and magnetic function, including connectors

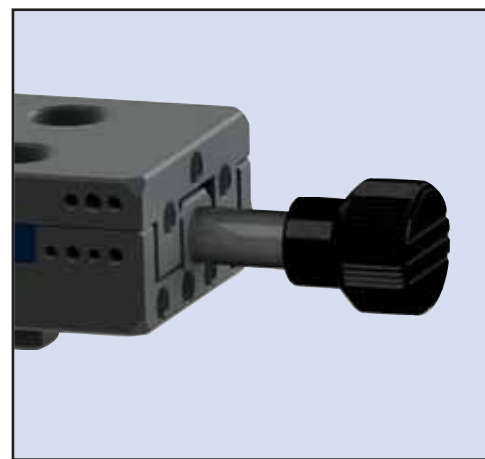
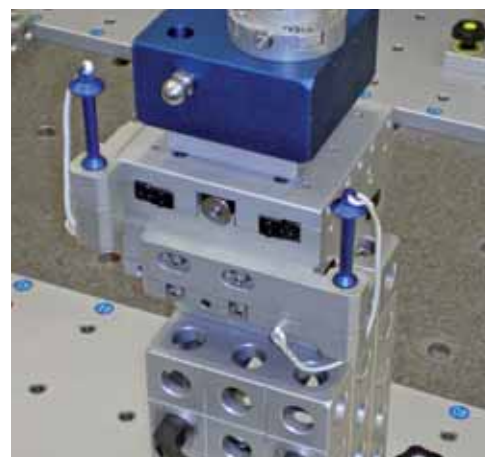
Nr.	A	B	
281196	67	300	18.000





ALUFIX

roller and guiding slides

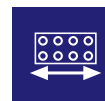
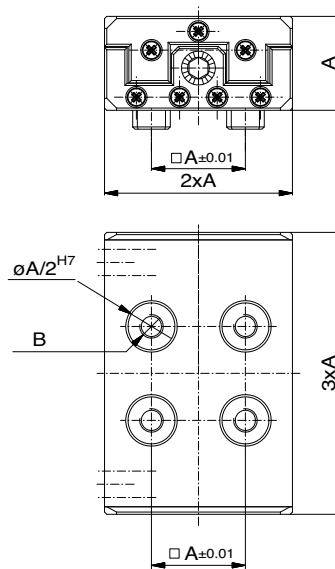


ALUFIX CLASSIC elements can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request.

Roller slide

adjustment using a screw spindle

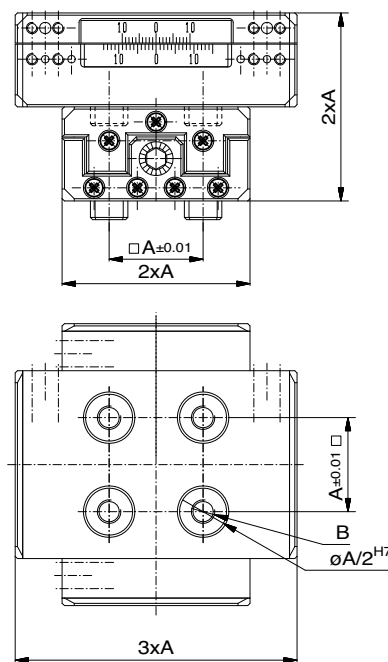
Nr.	A (AF)	B	max. load	shift	
82453	16	M4	20 kg	±9	89
82172	25	M6	50 kg	±13,5	242
82173	40	M10	150 kg	±22	970
82398	50	M12	250 kg	±27	1.910



Cross roller slide

adjustment using a screw spindle

Nr.	A (AF)	B	max. load	shift	
82461	16	M4	20 kg	±9	178
82462	25	M6	50 kg	±13,5	484
82463	40	M10	150 kg	±22	1.940
82399	50	M12	250 kg	±27	3.820



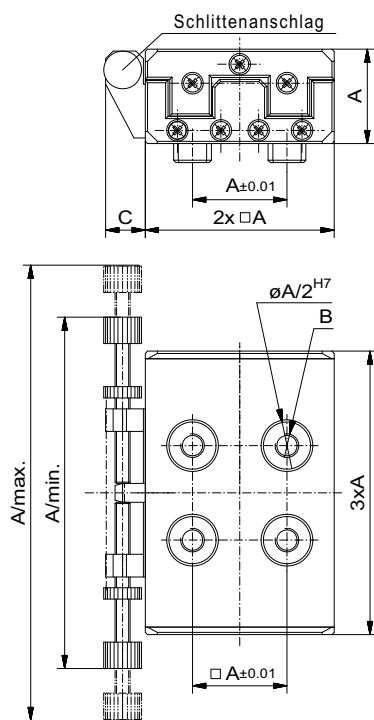
Preference item:
Articles with green diamond →
are available ex stock!



→ Article colour anodized natural
→ Classic and/or ECO
→ Article colour anodized black



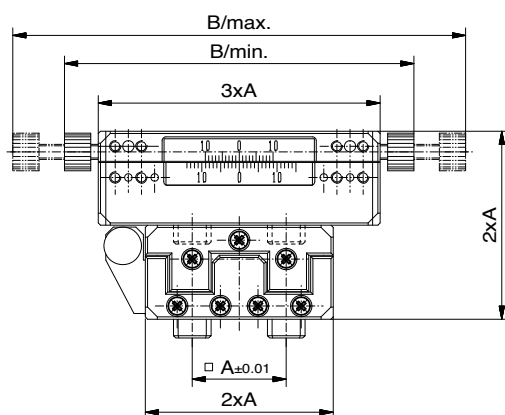
Other dimensions on request



Guiding slide with slide stop

movement assisted by free floating rollers

Nr.	A (AF)	B	C	shift	A/min	A/max	max. load	
82015	16	M4	7	± 8,5	59	77	20 kg	70
82002	25	M6	10,5 ± 13,5	93	120,5	50 kg	250	
82016	40	M10	16,8 ± 22	146,8	192	150 kg	1.024	
82441	50	M12	21 ± 26,5	186	242	250 kg	6.000	



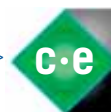
Cross guiding slide with slide stop

movement assisted by free floating rollers

Nr.	A (AF)	B/min	B/max	max. load	shift	
82436	16	59	77	20 kg	± 8,5	150
82437	25	93	120,5	50 kg	± 13,5	520
82438	40	146,8	192	150 kg	± 22	2.100
82439	50	186	242	250 kg	± 27,5	12.500



Preference item:
Articles with green diamond →
are available ex stock!

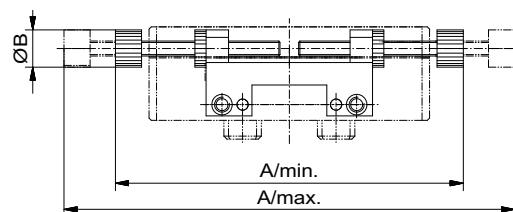


→ Article colour anodized natural
→ Classic and/or ECO
→ Article colour anodized black

Slide stop

for guiding or roller slides

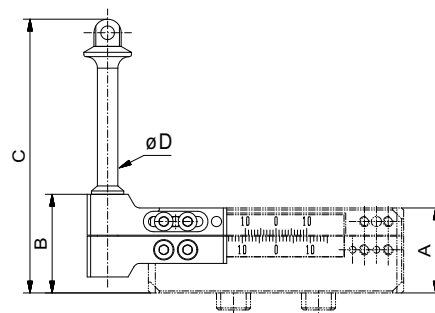
Nr.	AF	A/min	A/max	B	
82411	16	59	77	6,4	98
82412	25	93	120,5	10	115
82413	40	146,8	192	16	131
82414	50	186	242	19	140



Positioning guide and pin

to fix guiding slides in "O" position

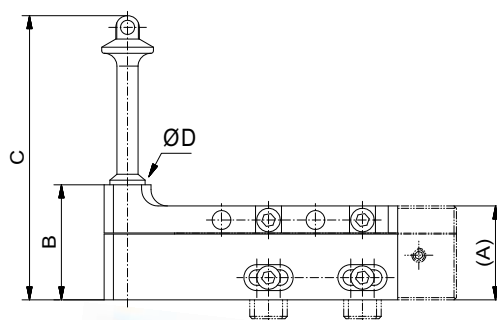
Nr.	A(AF)	B	C	ØD	Type	
83120	16	18,5	52,5	4,5	left	-
84323	16	18,5	52,5	4,5	right	-
82711	25	29	80,5	6	left	50
84321	25	29	80,5	6	right	50
82833	40	47	119	8	left	180
84320	40	47	119	8	right	180
83083	50	58	135	12	left	294
84322	50	58	135	12	right	294



Positioning guide and pin

to fix heavy duty (HD) guiding slides in "O" position

Nr.	A(AF)	B	C	D	Type	
92642	25	30,5	82	6	left	240
92643	25	30,5	82	6	right	240
92644	40	49	121	8	left	372
92645	40	49	121	8	right	372
92646	50	61	138	12	left	586
92647	50	61	138	12	right	586

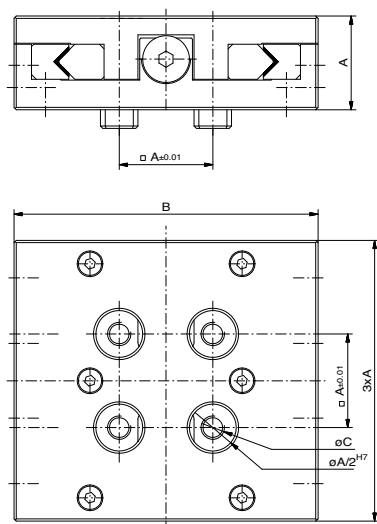


ALUFIX CLASSIC elements can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request.



Other dimensions on request

Witte heavy duty slides are available with slide bearing or roller bearing. Slides with roller bearing can cope with a higher load capacity lauf with free floating operation



Guiding slide, heavy duty

guided with slide bearings

Nr.	A (AF)	B	C	max. load	shift	
92364	25	79	M6	75 kg	+/- 12,5	450
92423	40	130	M10	225 kg	+/- 20	2.000
92424	50	158	M12	375 kg	+/- 25	3.500

guided with roller bearings

Nr.	A (AF)	B	C	max. load	shift	
280495	25	79	M6	150 kg	+/- 13	450
280496	40	130	M10	450 kg	+/- 21	2.000
280497	50	158	M12	750 kg	+/- 26	3.500



Version with slide bearings



Application example:
Anodized black with positioning pin and guide mounted



Application example:
Hook clamp with cross guiding slide with slide bearings



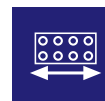
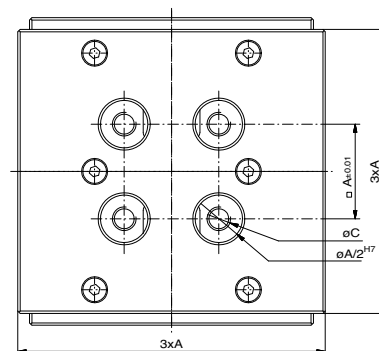
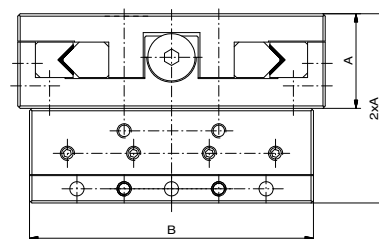
Cross guiding slide, heavy duty

guided with slide bearings

Nr.	A (AF)	B	C	max. load	shift	
92031	25	79	M6	75 kg	+/- 12,5	900
92425	40	130	M10	225 kg	+/- 20	4.000
92426	50	158	M12	375 kg	+/- 25	7.000

guided with roller bearings

Nr.	A (AF)	B	C	max. load	shift	
280498	25	79	M6	150 kg	+/- 13	900
280499	40	130	M10	450 kg	+/- 21	4.000
280500	50	158	M12	750 kg	+/- 26	7.000

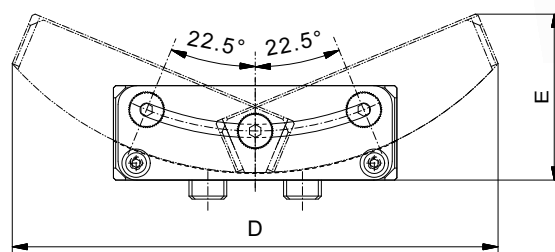
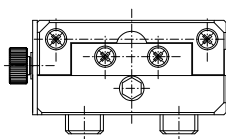
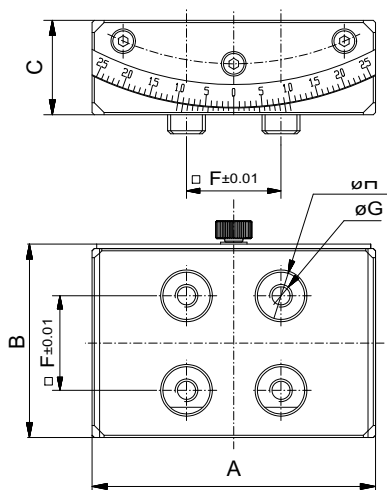


Version with roller bearings

Rocker AF25

for positioning, with screw clamping

Nr.	A	B	C	D	E	F (AF)	G	H	
82972	75	51	25	128,5	44	25	M6	12,5	242
283778	120	82	40	206	70	40	M8	20	900



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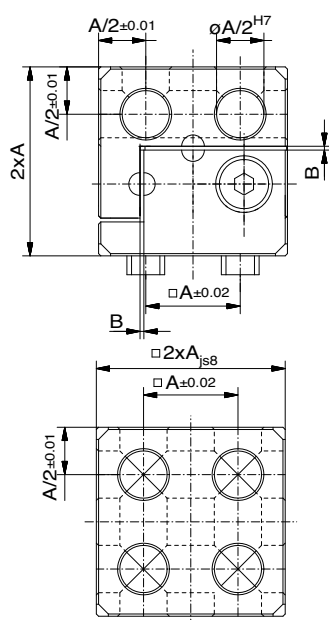


ALUFIX shim blocks

Adjustment in X,Y,Z takes place by inserting or removing shim foils or shims. After adjustment settings are fixed using pins.

Values shown in the chart for range of adjustment are maximal values for one axis. Values in brackets show adjustment range when using more than one axis simultaneously.

ALUFIX shim blocks are available in a mirrored version on request



3D Shim block AF

for fine adjustment in 3 axes X,Y,Z, using shim foils (page 60).

Nr.	A (AF)	shift B	
89177	25	x,y,z: +/- 1,0 (0,7)	270
89178	40	x,y,z: +/- 1,5 (1,1)	700
89179	50	x,y,z: +/- 2,0 (1,4)	2.200



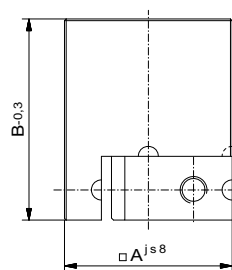
Contour block

for 3D Shim block

Nr.	B (AF)	A x A x B	
34768	25	50x50x65	356
34769	25	50x50x90	536
34770	25	75x75x65	866
34771	40	80x80x104	1.879
34772	40	80x80x144	2.227
34773	40	120x120x104	4.871
34774	50	100x100x130	2.926
34775	50	100x100x180	5.833
34776	50	150x150x130	6.900

Other dimensions on request

Contour blocks are without surface protection, also when 3D Shim block is anodized in different colours

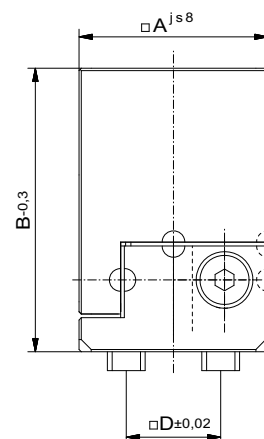


3D Shim block with integrated contour block

for fine adjustment in 3 axes X,Y,Z, using shim foils (page 63).

Nr.	D (AF)	A x A x B	shift	
91834	25	50x50x70	x,y,z: +/- 1,0 (0,7)	473
91835	40	80x80x120	x,y,z: +/- 1,6 (1,1)	2.074
91836	50	100x100x150	x,y,z: +/- 2,0 (1,4)	4.275

Contour blocks are without surface protection, also when 3D Shim block is anodized in different colours



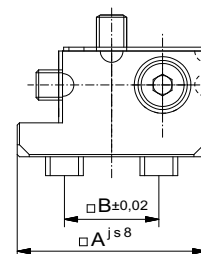
Application example: Clamping unit with ratchet clamp mounted on machined contour block (green) with 3D shim block base



3D Shim block base, side mounting

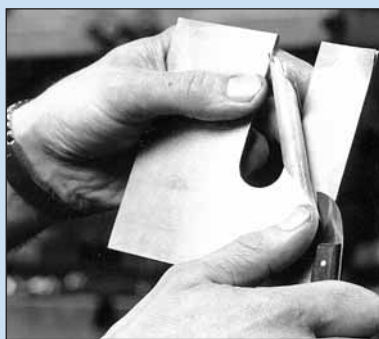
complete with shims and screws

Nr.	B (AF)	A x A	
92165	25	50x50	203
92166	40	80x80	778
92167	50	100x100	1.485



ALUFIX CLASSIC elements can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request.

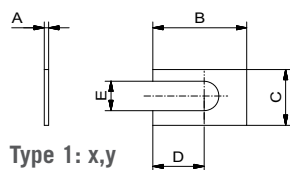
ALUFIX shim blocks are available in a mirrored version on request



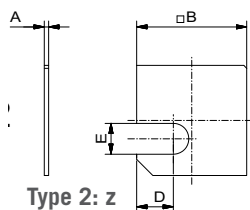
Peelable shim foil
for gaps between elements,
in various thicknesses.
Comprises of 0,05mm
thick laminated alu-foils.
The easy process of peeling
with a knife can be carried
out on the spot when spa-
cers are required.

The advantages:

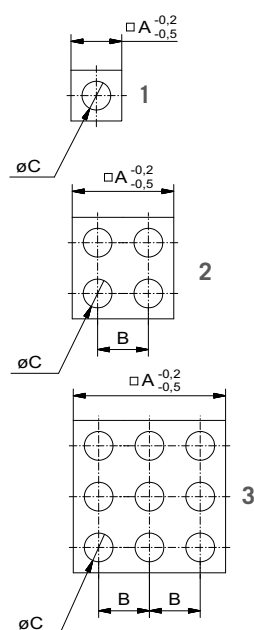
- Tolerances are evened out making remachining jobs such as milling, grinding etc. unnecessary
- Reduces setting up times
- Reduces amount of machining required



Type 1: x,y



Type 2: z



Shimfoil type 1 or 2

peelable, in 0,05mm layers, for setting of shim blocks

Nr.	System	Type	A	B	C	D	E	
33013	AF 25	2	1,0	37,5	-	12,5	10	1,5
33014	AF 25	1	1,0	32	19	20,5	10	2,5
33261	AF 40	2	1,6	60,5	-	20,5	20	6
33260	AF 40	1	1,6	50	30	30	14	9
33632	AF 50	2	2,0	75	-	25	25	12
33633	AF 50	1	2,0	60	38	35	18	19

Shimfoil closed

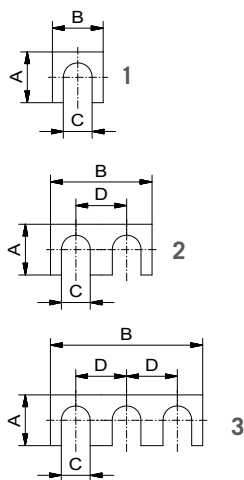
peelable, 2mm thick, in 0,05mm layers

Nr.	System	Type	A	B	C	
27716	AF 16	1	15	16	8,5	1
27717	AF 16	2	31	16	8,5	4
27718	AF 16	3	47	16	8,5	1
27719	AF 25	1	24	25	13	5
27720	AF 25	2	49	25	13	10
27721	AF 25	3	74	25	13	20
27722	AF 40	1	39	40	20,5	6
27723	AF 40	2	79	40	20,5	26
27724	AF 40	3	119	40	20,5	60
29315	AF 50	1	49	50	25,2	10
29316	AF 50	2	99	50	25,5	41
29317	AF 50	3	149	50	25,5	95

Shimfoil open

peelable, 2mm thick, in 0,05mm layers

Nr.	System	Type	A	B	C	D	
25526	AF 16	1	15	15	8,5	-	1
25527	AF 16	2	15	31	8,5	16	1
25528	AF 16	3	15	47	8,5	16	2
25529	AF 25	1	24	24	13	-	2
25530	AF 25	2	24	49	13	25	4
25531	AF 25	3	24	74	13	25	10
25535	AF 25	2	49	49	13	25	8
25532	AF 40	1	39	39	20,5	-	8
25533	AF 40	2	39	79	20,5	40	10
25534	AF 40	3	39	119	20,5	40	16
27963	AF 50	1	49	49	25,5	-	8
27964	AF 50	2	49	99	25,5	50	16
27965	AF 50	3	49	149	25,5	50	25



Shim (with fixed thickness)

for setting of shim blocks in x,y axis

AF 25, Type 1

B=32, C=19, D=20,5, E=10

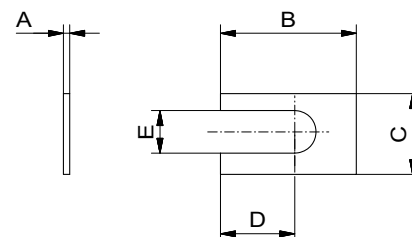
Nr.	A
128005	0,05
122010	0,1
122020	0,2
122030	0,3
122040	0,4
122050	0,5
122070	0,7
122080	0,8
122100	1,0
122150	1,5
122200	2,0

AF 40, Type 1

B=50, C=30, D=30, E=14

Nr.	A
124005	0,05
124010	0,1
124020	0,2
124030	0,3
124040	0,4
124050	0,5
124070	0,7
124080	0,8
124100	1,0
124150	1,5
124200	2,0

Type 1: x,y



Shim (with fixed thickness)

for setting of shim blocks in z axis

AF 25, Type 2

B=37,5 C=37,5 D=12,5 E=10

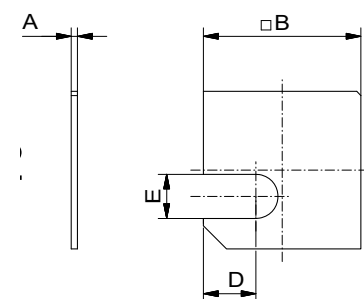
Nr.	A
129005	0,05
123010	0,1
123020	0,2
123030	0,3
123040	0,4
123050	0,5
123070	0,7
123080	0,8
123100	1,0
123150	1,5
123200	2,0

AF 40, Type 2

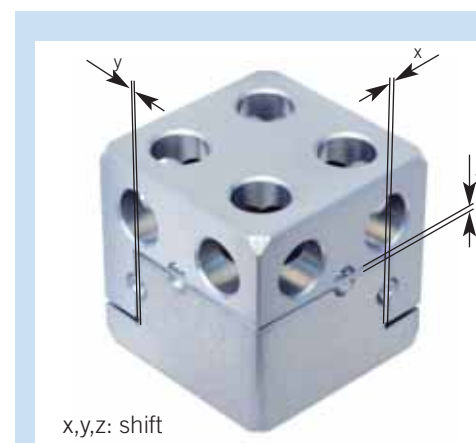
B=60,5 C=60,5 D=20,5 E=20

Nr.	A
125005	0,05
125010	0,1
125020	0,2
125030	0,3
125040	0,4
125050	0,5
125070	0,7
125080	0,8
125100	1,0
125150	1,5
123200	2,0

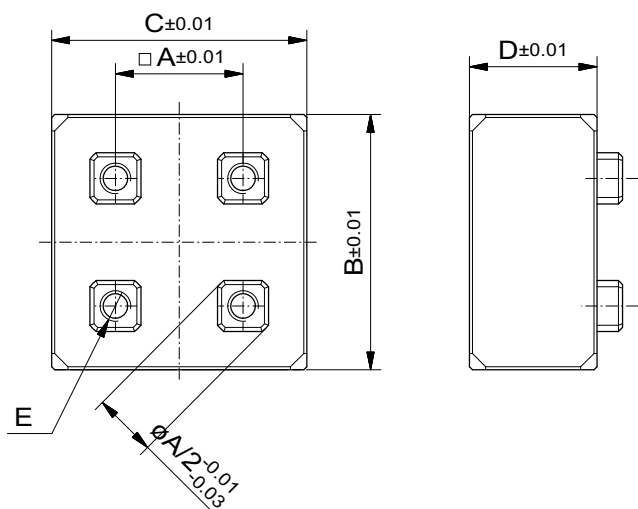
Type 2: z



Last three digits of order number correspond to shim thickness in 1/100mm.



Adjustment takes place by adding or taking away shims and/or shim foils.
After adjustment settings can be fixed using pins.



Contour blocks are without surface protection



Contour blocks

ALUFIX 25 / 40 / 50

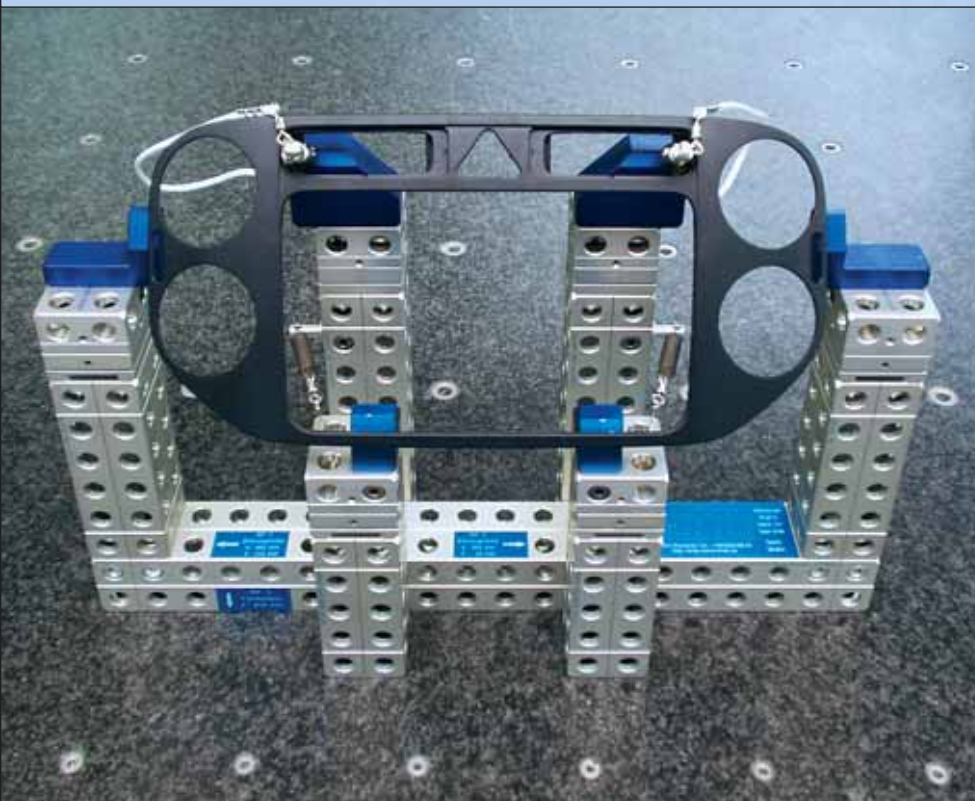
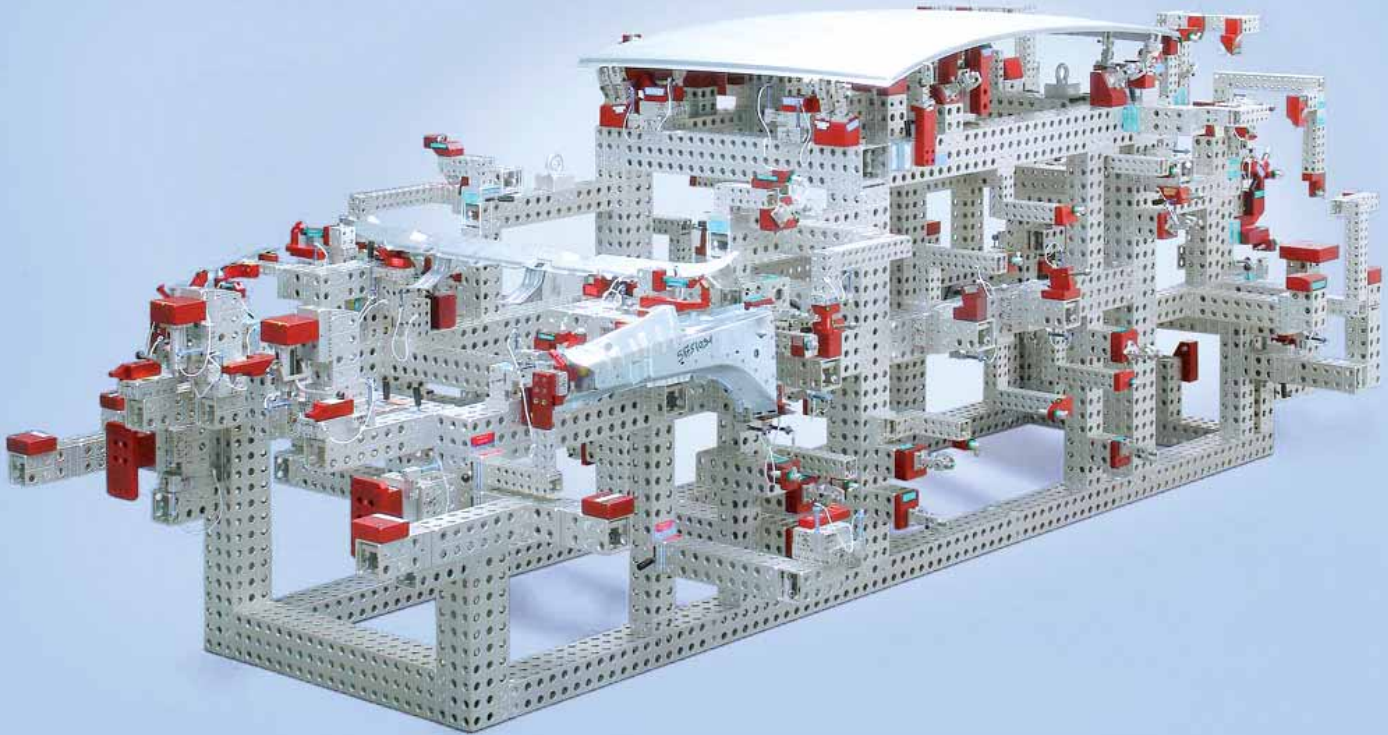
Nr.	A(AF)	B	C	D	E	g
23366	25	25	25	25	M6	45
23367	25	25	50	25	M6	89
23368	25	50	50	25	M6	179
23617	25	50	75	25	M6	268
25312	25	25	50	50	M6	179
23369	25	50	50	50	M6	358
25314	25	50	75	50	M6	536
23618	25	100	100	50	M6	1.430
23630	40	40	40	40	M10	183
23631	40	40	80	40	M10	366
23632	40	80	80	40	M10	732
23633	40	80	120	40	M10	1.098
25313	40	40	80	80	M10	732
23634	40	80	80	80	M10	1.464
25315	40	80	120	80	M10	2.196
23635	40	160	160	80	M10	5.857
28049	50	50	50	50	M12	358
28050	50	50	100	50	M12	715
28051	50	100	100	50	M12	1.430
28052	50	100	150	50	M12	2.145
27537	50	50	100	100	M12	1.430
28053	50	100	100	100	M12	2.860
27367	50	100	150	100	M12	4.290
28054	50	200	200	100	M12	11.440



ALUFIX CLASSIC elements can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request.

Other dimensions on request

Meisterbock for automobile
All contour blocks are anodized red
according to customer's request



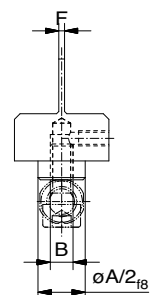
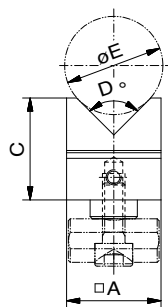
ALUFIX CLASSIC V Pieces and Delta Blocks



V piece 90°

single

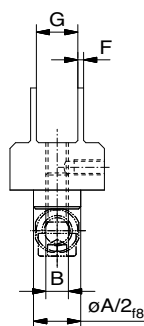
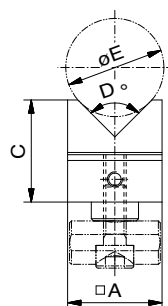
Nr.	A(AF)	B	C	D	E	F	
80923	16	M4	17,5	90°	max.ø 17	1	9
82230	25	M6	27	90°	max.ø 26	1,5	32



V piece 90°

double, V narrow

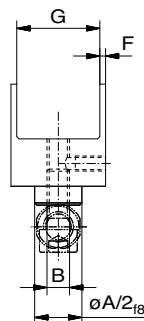
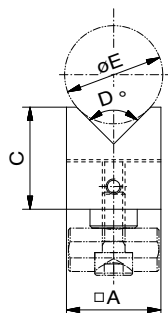
Nr.	A(AF)	B	C	D	E	F	G	
80921	16	M4	17,5	90°	max.ø 17	1	7	10
82232	25	M6	27	90°	max.ø 26	1,5	11	35



V piece 90°

double, V wide

Nr.	A(AF)	B	C	D	E	F	G	
80922	16	M4	17,5	90°	max.ø 17	1	14	10
82231	25	M6	27	90°	max.ø 26	1,5	22	35



Application using optional stop, see page 84



ALUFIX CLASSIC Alufix Classic elements can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request.



V block 90°

standard version

Nr.	A(AF)	max. ϕ	
21991	16	45	51
21992	25	70	185
21272	40	113	189
28173	50	142	1.362



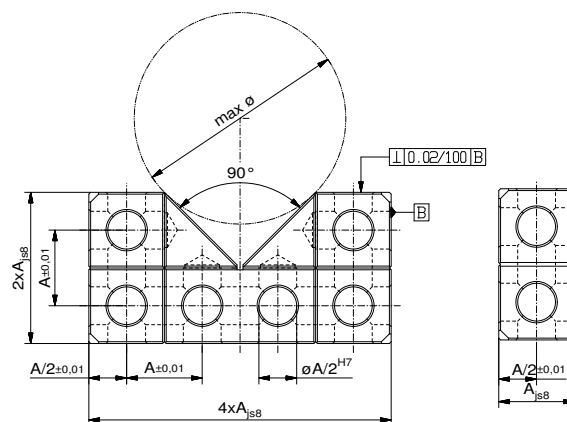
with hard metal surface

Nr.	A(AF)	max. ϕ	
80975	25	70	251
81511	40	113	1.115
82785	50	142	1.326



with magnetic surface

Nr.	A(AF)	max. ϕ	
81508	25	70	203
81513	40	113	1.115
82784	50	142	1.326



Surface of V blocks also available with polymer insert (POM, black) on request

Preference item:
Articles with green diamond $\rightarrow$
are available ex stock!



$\rightarrow$ Article colour anodized natural

$\rightarrow$ Article colour anodized black

V block 120°

standard version

Nr.	A(AF)	max. Ø	
21988	16	110	78
21987	25	170	299
21277	40	275	1.218
28175	50	345	2.395



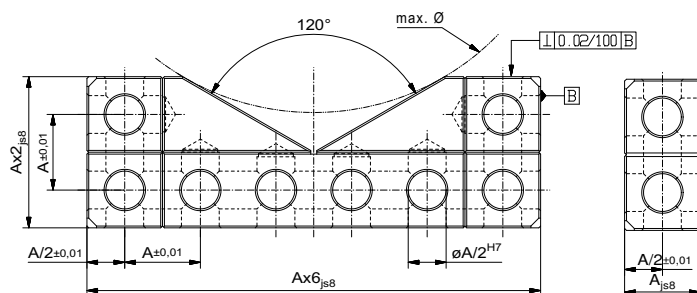
with hard metal surface

Nr.	A(AF)	max. Ø	
80976	25	170	382
81512	40	275	1.577
82786	50	345	2.350



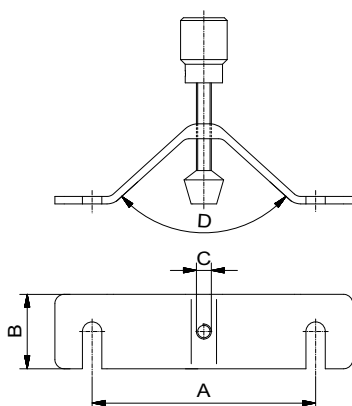
with magnetic surface

Nr.	A(AF)	max. Ø	
81509	25	170	316
81514	40	275	1.577
82787	50	345	2350



ALUFIX CLASSIC Alufix Classic elements can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request.

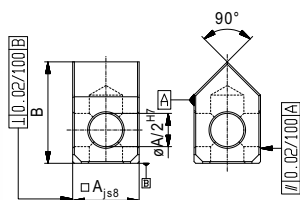
i Surface of V blocks also available with polymer insert (POM, black) on request



Clamp bracket

for V-block

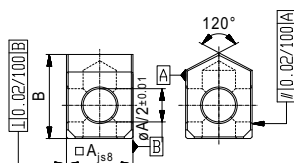
Nr.	System	A	B	C	D	
288281	AF 16	48	16	M4	90°	70
288282	AF 16	80	16	M4	120°	90
285344	AF 25	75	25	M6	90°	80
285345	AF 25	125	25	M6	120°	100
285346	AF 40	120	40	M8	90°	210
285347	AF 40	200	40	M8	120°	270



Delta block 90°

Form 1

Nr.	A(AF)	B	
22234	16	24	10
22235	25	37,5	35
22236	40	60	145
28043	50	75	173



Delta block 120°

Form 1

Nr.	A(AF)	B	
22240	16	20	8
22241	25	31,25	31
22242	40	50	126
28046	50	62,5	173

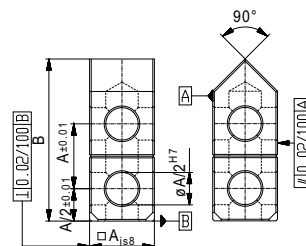


ALUFIX CLASSIC Alufix Classic elements can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request.

Delta block 90°

Form 2

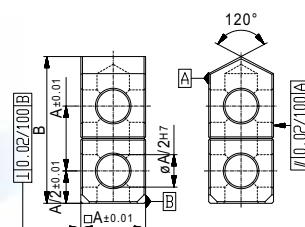
Nr.	A(AF)	B	
22176	16	40	16
22177	25	62,5	61
22178	40	100	253
28044	50	125	750



Delta block 120°

Form 2

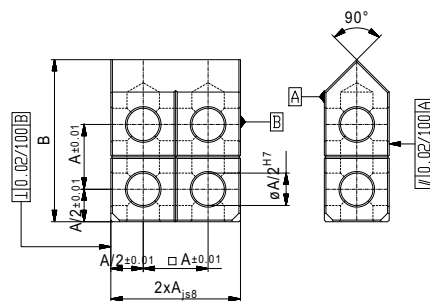
Nr.	A(AF)	B	
22252	16	36	15
22253	25	56,25	57
22254	40	90	234
28047	50	112,5	453



Delta block 90°

Form 3

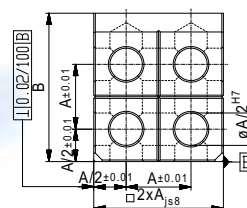
Nr.	A(AF)	B	
22173	16	40	18
22174	25	62,5	123
22175	40	100	506
28045	50	125	981



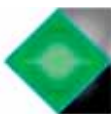
Delta block 120°

Form 3

Nr.	A(AF)	B	
22255	16	36	30
22256	25	56,25	114
22257	40	90	468
28048	50	112,5	1.173



Preference item:
Articles with green diamond →
are available ex stock!



→ Article colour anodized natural
→ Article colour anodized black

Delta blocks available in polymer (POM, black) on request

ALUFIX CLASSIC

Screw-Jacks and Top Sections

Screw-jacks and top sections provide the contact between workpiece and Alufix fixture. Reliable in grid or off-grid positioning is possible with ball joints, screw-jacks and extensions available in many variations.





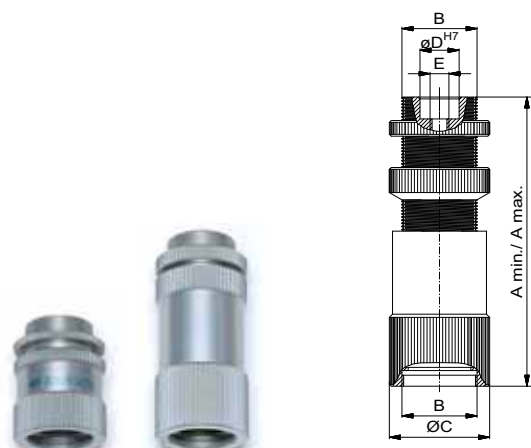
Top sections

Joints

Spacers (screw-jacks,
extensions)

Foot plates,
connection elements

Fixing disks
(see pages 119, 120)



Screw-jack

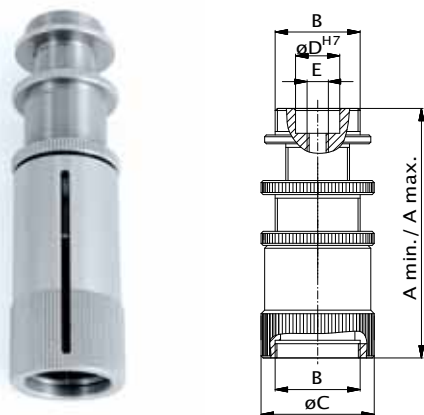
with precision thread and check nut

Nr.	A/min	A/max	B	C	D	E	
90614	38	50	24x1	32	8	M4	65
82139	38	50	24x1	32	12,5	M6	65
82033	70	105	24x1	32	12,5	M6	120
82085	110	170	32x1	42	20	M10	330

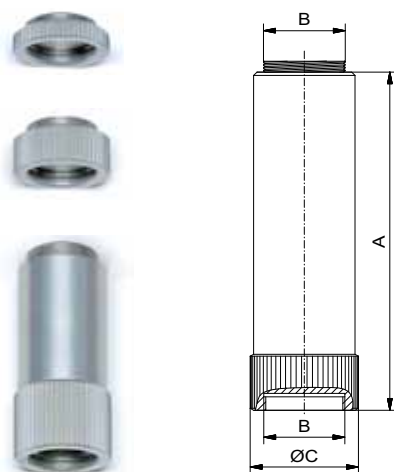
Screw-jack with anti-turn lock

D32 and D42

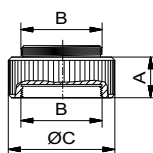
Nr.	A min.	A max.	B	C	D	E	
285201	50	70	M24x1	32	12,5	M6	78
285202	70	105	M24x1	32	12,5	M6	120
285203	105	170	M32x1	42	20	M10	310



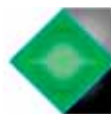
Screw-jack extension



Nr.	A	B	C	
20628	6	M24x1	32	12
23286	12	M24x1	32	25
123461	15	M24x1	32	32
22856	100	M24x1	32	210
123462	15	M32x1	42	34
21658	100	M32x1	42	225



Preference item:
Articles with green diamond →
are available ex stock!



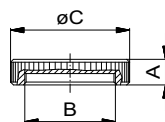
→ Article colour anodized natural

→ Article colour anodized black

Cap for screw-jack

aluminium or plastic

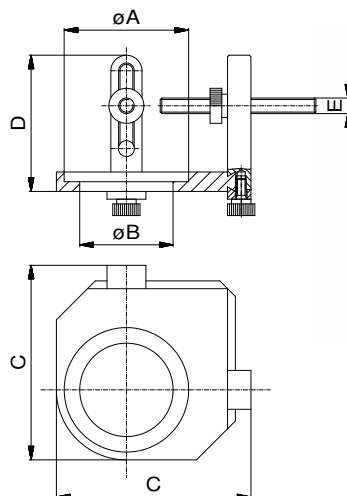
Nr.	Material	A	B	C	
 21667	Alu	6,5	M24x1	32	10
21669	Alu	8,5	M32x1	42	18
21666	POM	6,5	M24x1	32	4
21668	POM	8,5	M32x1	42	9



XY-Stop

for screw-jack

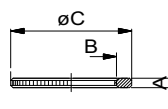
Nr.	A	B	C	D	E	
285204	32	24	50	35	M4	32
285205	42	32	65	46	M5	68



Ring for screw jack

for use with top sections

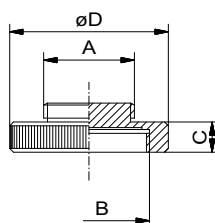
Nr.	A	B	C	
25683	2,5	M24x1	32	2



Cross over

male/female

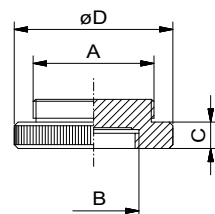
Nr.	A	B	C	D	
21659	M24x1	M32x1	8	42	21



Cross over

male/female

Nr.	A	B	C	D	
21227	M32x1	M24x1	7	42	32



 **ALUFIX CLASSIC** elements can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request.

 Other dimensions on request



Material and surface characteristics for top sections

Fixed and spring loaded centres, true line studs, rotating top sections:
High tensile aluminium
Hard slide coated

Centres with ball:
Base in high tensile aluminium,
balls hardened and polished

Remaining top sections:
High tensile aluminium, anodized

Clamp units for use with screw jacks.

Versions with

- Support ball,
- Datum Button,
- Ball point and
- Surface

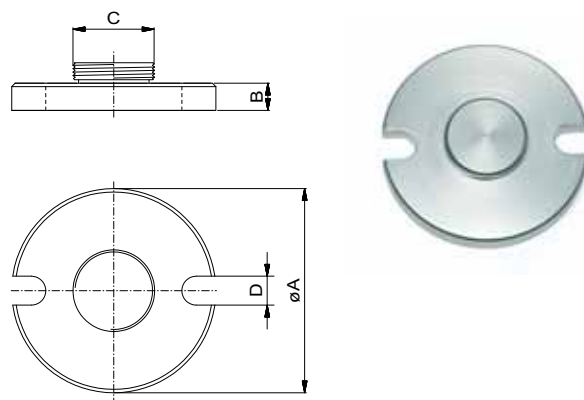
are available



Universal plate

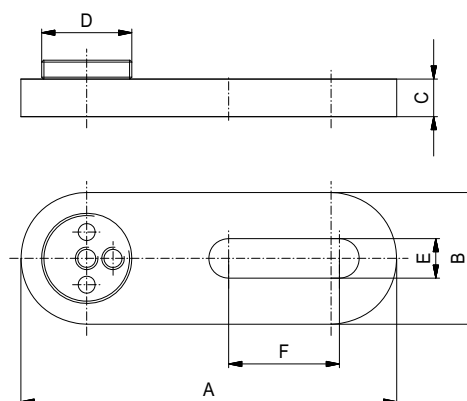
for connection independant of grid

Nr.	A	B	C	D	g
21670	60	8	M24x1	8,5	65
21671	75	8	M32x1	8,5	106



Clamping plate

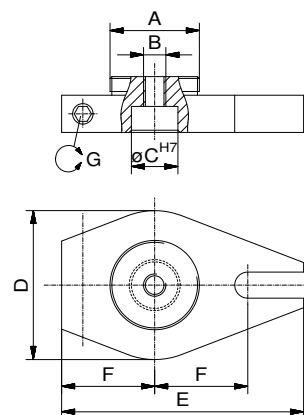
Nr.	A	B	C	D	E	F	g
85232	100	35	10	M24x1	10,5	29,5	85



Footplate

with pivot pin

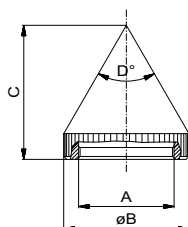
Nr.	A	B	C	D	E	F	G	g
285208	24x1	M6	12,5	40	65	25	6°	50
285209	32x1	M10	20	65	105	40	4°	131



ALUFIX CLASSIC elements can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request.



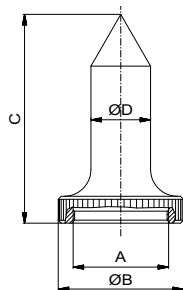
Other dimensions on request



Center

short

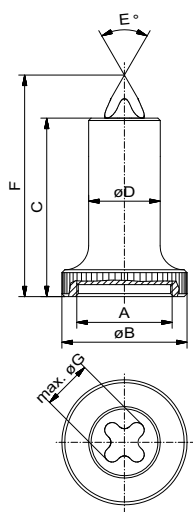
Nr.	A	B	C	D	
21644	M24x1	32	35	60	30
21645	M32x1	42	45	60	66



Center

long

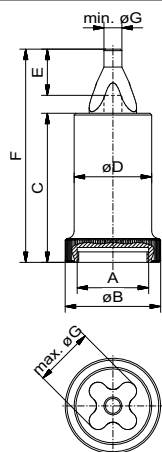
Nr.	A	B	C	D	
23638	M12x0,5	16	27,5	8	4
21646	M24x1	32	50	12,5	25
21648	M24x1	32	75	12,5	33
21647	M32x1	42	70	20	67
21649	M32x1	42	120	20	106



Autocenter

spring loaded, star shaped

Nr.	A	B	C	D	E	F	min.ø	max.ø	
95532	24x1	32	50	18	60	61	1	12,5	40



Autocenter

spring loaded, star shaped,
with check pin

Nr.	A	B	C	D	E	F	min.ø	max.ø	
94543	24x1	32	50	26	15,5	71,5	6	20	120
95531	32x1	42	50	36	15,5	71,5	16	28	130

Fixed centres are also available in polymer (POM, black) on request

Preference item:
Articles with green diamond →
are available ex stock!



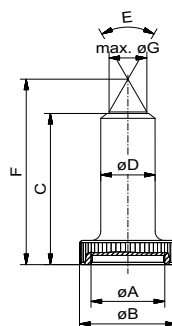
→ Article colour anodized natural

→ Article colour anodized black

Autocenter

spring loaded

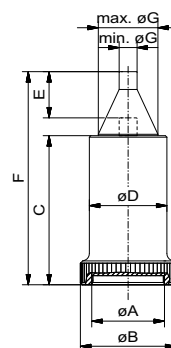
Nr.	A	B	C	D	E	F	min.ø	max.ø	g
81212	24x1	32	50	18	60	61	1	12,5	40



Autocenter

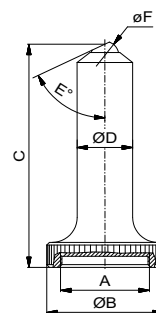
spring loaded, with check pin

Nr.	A	B	C	D	E	F	min.ø	max.ø	g
82252	24x1	32	50	26	15,5	71,5	6	20	60



True line stud

Nr.	A	B	C	D	E	F	g
80590	M24x1	32	32,6	15	65	10	30
80661	M24x1	32	77,6	15	65	10	45
80591	M32x1	42	37,6	20	65	10	36
80666	M32x1	42	122,6	20	65	10	83

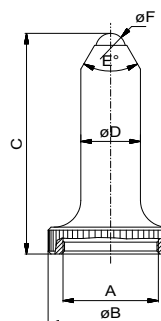


True line studs are also available in polymer (POM, black) on request

Center

with ball

Nr.	A	B	C	D	E	F	g
90545	M24x1	32	34	15	60	10	27
80584	M24x1	32	52	12,5	60	6	21
80585	M24x1	32	53	12,5	60	8	22
80586	M32x1	42	72	20	60	6	60
80587	M32x1	42	73	20	60	8	57
80588	M32x1	42	74	20	60	10	63
80589	M32x1	42	75	20	60	12	60



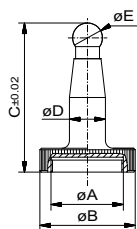
Centers with ball are also available in polymer (POM, black) on request



ALUFIX CLASSIC elements can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request.



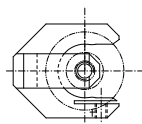
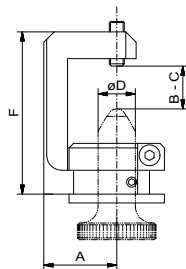
Other dimensions on request



Centering element

with reference ball

Nr.	A	B	C	D	E	
82142	M24x1	32	50	12	10	27



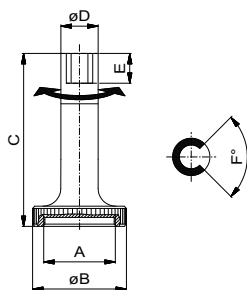
C clamp

adjustable, without center with ball

Nr.	A	B	C	D	F	
81111	28	0	15	12,5	52	123

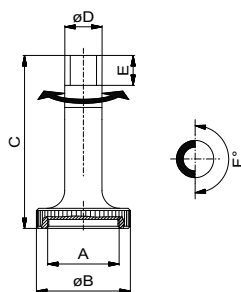
Stop and support 90°

swivel top, fixing screw



Stop and support 180°

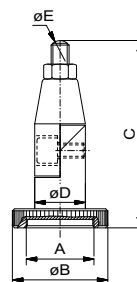
swivel top, fixing screw



Center

with ball and joint

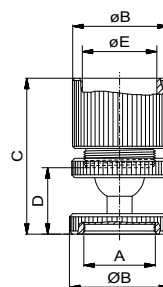
Nr.	A	B	C	D	E	
82174	M24x1	32	57-67	17	6	37



Magnetic holder

with ball joint

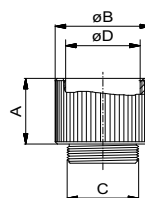
Nr.	A	B	C	D	E	
80941	M24x1	32	52,3	22,2	25	85



Magnetic holder

without ball joint

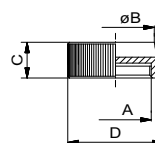
Nr.	A	B	C	D	
80948	22	32	M24x1	25	60



Moulding cap

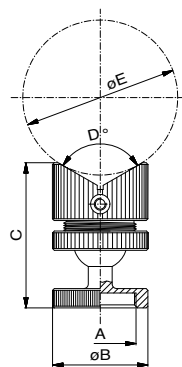
for use with compound resin

Nr.	A	B	C	D	
22005	M24x1	26	12	32	11



ALUFIX CLASSIC elements can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request.

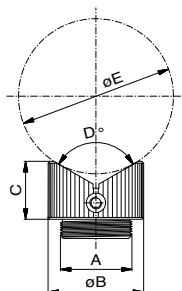
Other dimensions on request



V block 120°

with ball joint

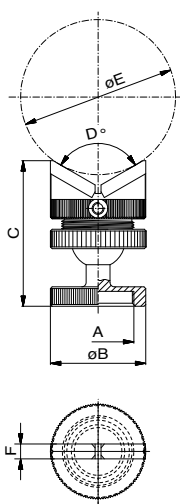
Nr.	A	B	C	D	E	
80733	M24x1	32	49	120	max. 52	58



V block 120°

without ball joint

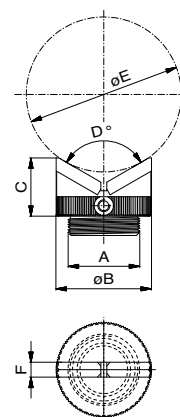
Nr.	A	B	C	D	E	
22286	M24x1	32	19,4	120	max. 52	34



Knife V 120°

with ball joint

Nr.	A	B	C	D	E	F	
80927	M24x1	32	49	120	max. 56	5	42



Knife V 120°

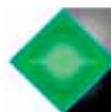
without ball joint

Nr.	A	B	C	D	E	F	
22631	M24x1	32	19,5	120	max. 56	5	19



V Blocks are also available in polymer (POM, black) on request

Preference item:
Articles with green diamond →
are available ex stock!



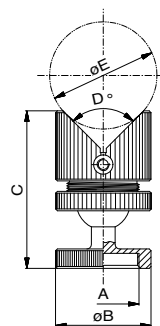
→ Article colour anodized natural

→ Article colour anodized black

V block 90°

with ball joint

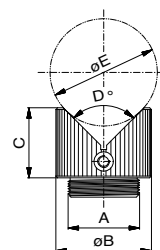
Nr.	A	B	C	D	E	
80725	M24x1	32	53	90	max. 36	61



V block 90°

without ball joint

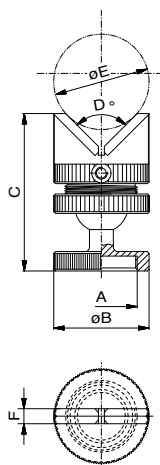
Nr.	A	B	C	D	E	
22285	M24x1	32	23,5	90	max.36	30



Knife V 90°

with ball joint

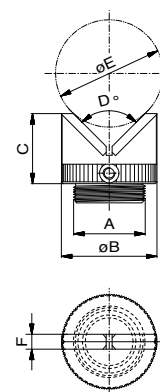
Nr.	A	B	C	D	E	F	
80926	M24x1	32	53	90	max. 32	5	42



Knife V 90°

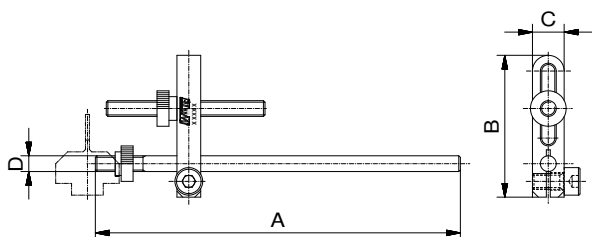
without ball joint

Nr.	A	B	C	D	E	F	
22555	M24x1	32	23,5	90	max. 32	5	19



ALUFIX CLASSIC elements can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request.

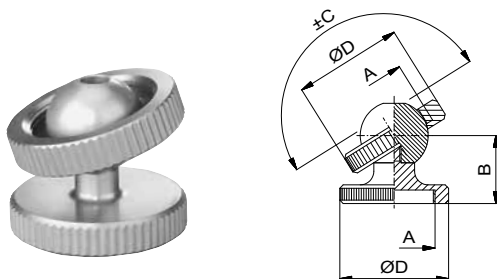
V Blocks are also available in polymer (POM, black) on request



Stop M4

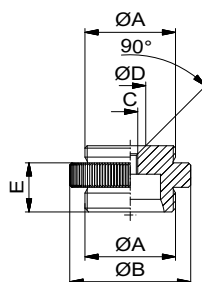
for V-piece

Nr.	A	B	C	D	
285200	92	36	8	M4	12



Ball joint

Nr.	A	B	C	D	
80947	M24x1	22	55°	32	24
81588	M12x0,5	10	55°	16	6



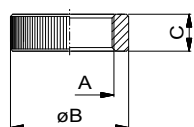
Crossover

male/male, for ball joint

Nr.	A	B	C	D	E	
22647	M24x1	32	M4	8,2	13	21
24241	M12x0,5	16	-	-	5	12



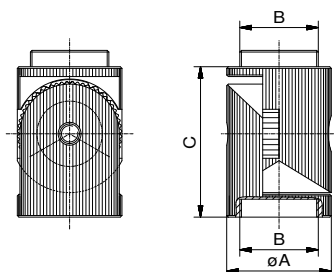
M4 thread can be connected with studs from FX range as location pin



Spacer

M24x1

Nr.	A	B	C	
22644	M24x1	ø32	10	10



Joint for Screw-jacks

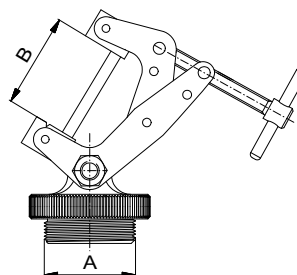
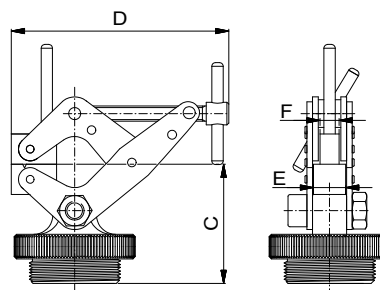
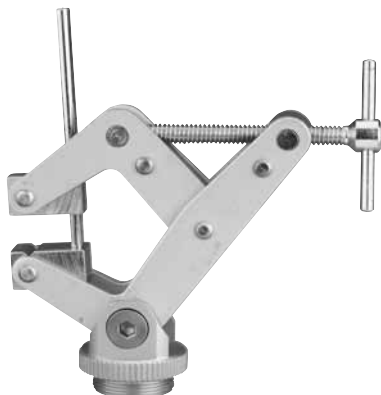
with knurled serrations grid 6° or 4°

Nr.	A	B	C	Grid	
285206	32	24x1	40	4°	94
285207	42	32x1	60	6°	232

Screw clamp

with joint, connection thread M24x1

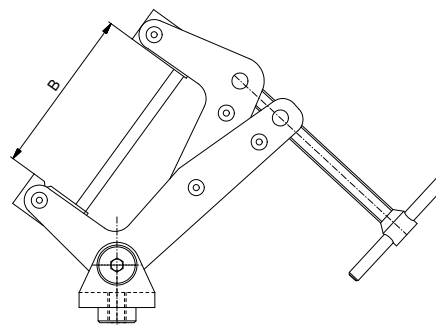
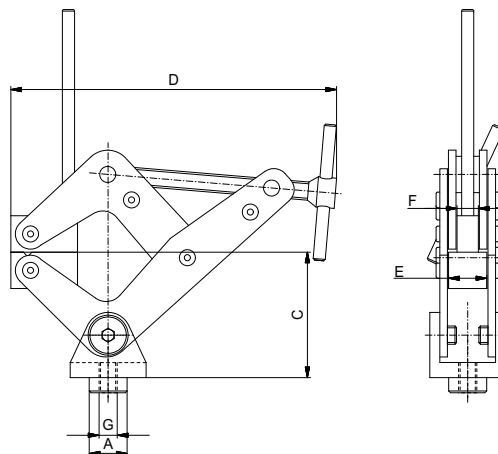
Nr.	A	B	C	D	E	F	
80949	24x1	25	32	57,5	8,5	5	51
81270	24x1	55	47,5	105	12,6	7	152



Screw clamp

with joint, ALUFIX 25

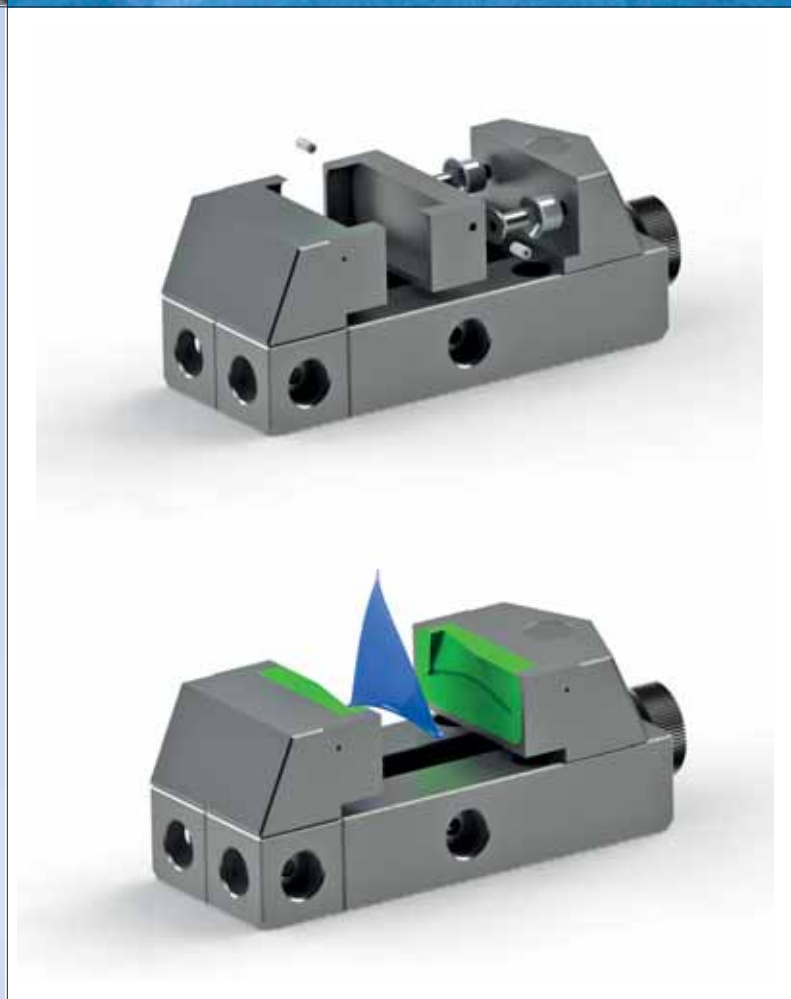
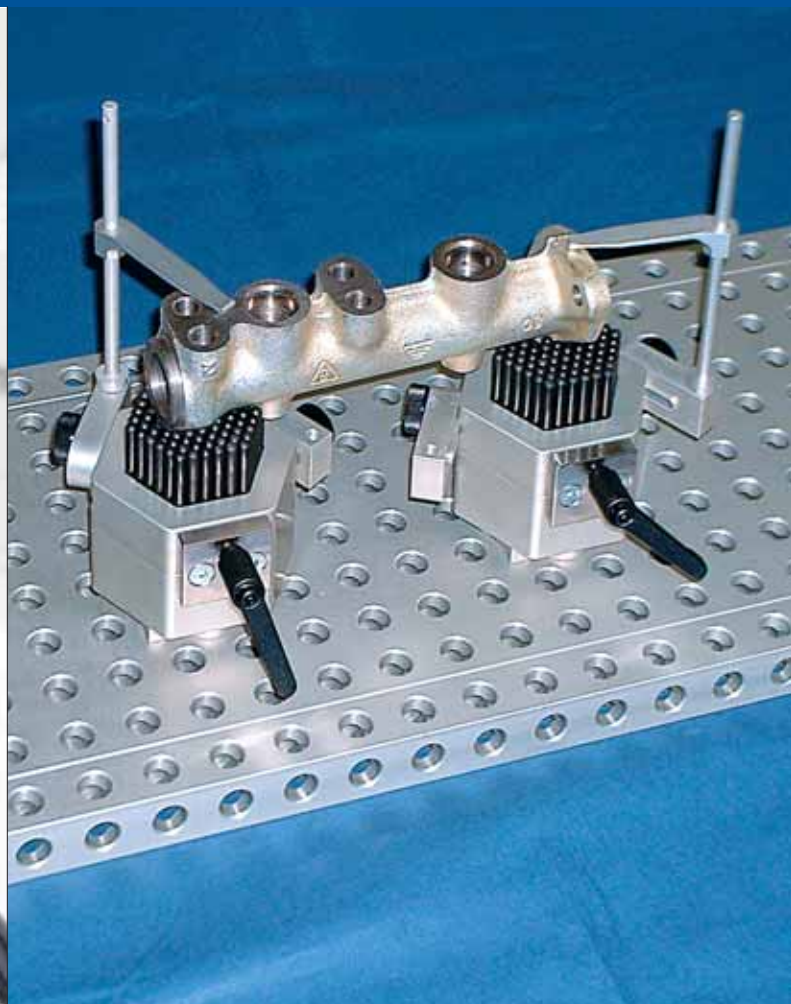
Nr.	A	B	C	D	E	F	G	
80924	12,5	55	41,3	105	12,6	7	M6	147



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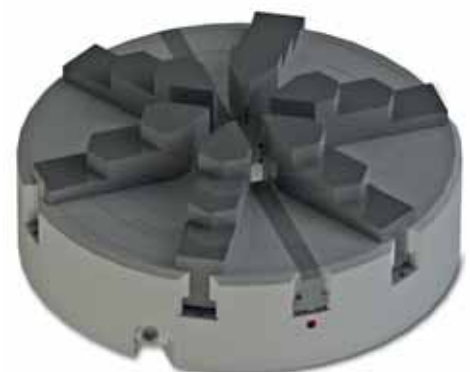
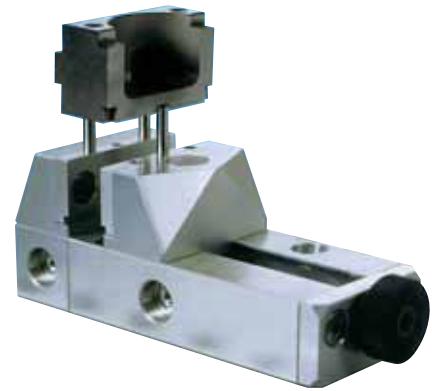


Other dimensions on request



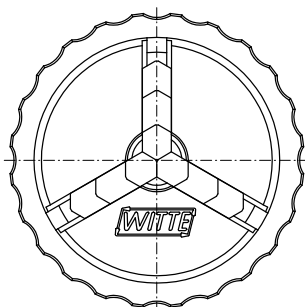
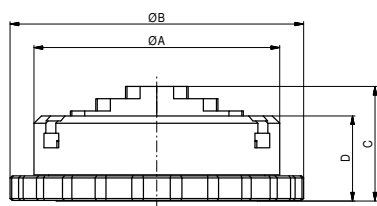
ALUFIX CLASSIC Clamping Elements

Alufix clamping elements fix workpieces to fixtures and ensure contact with support surfaces



3 Jaw Keyless Chuck

for measuring applications



Nr.	A	B	C	D	
 82220	50	60	23,4	17,3	95
 82080	80	96	35	25	368
 82125	125	146	53,1	38,4	1.330
82200	200	236	79,1	55,3	4.940



Concentricity base to part:
Repeatable accuracy max. 0,1mm, absolute accuracy 0,3mm

Further dimensions

3 jaw keyless chuck

ø	A	B	C	D	E	F	G	H	I
50	1-32	15-46	29-60	41-72	17,3	18,4	21	23,4	30,3
80	1-45	23-66	45-88	65-108	25,3	27	31	35	44,8
125	1,5-68	36-100	70-134	106-170	38,4	41,3	47,1	53,1	69
200	2-110	56-164	110-218	166-274	55,3	63,1	71,1	79,1	103,3

3 jaw keyless chuck with reversed jaws

ø	A	B	C	D	E	F	G	H	I
50	1-34	13-46	27-60	41-74	17,3	18,4	21	23,4	30,3
80	1-46	21-66	43-88	65-108	25,3	27	31	35	44,8
125	1,5-72	38-108	72-142	106-176	38,4	41,1	47,1	53,1	69
200	2-116	58-172	112-226	166-280	55,3	63,1	71,1	79,1	103,3

Preference item:
Articles with green diamond →
are available ex stock!



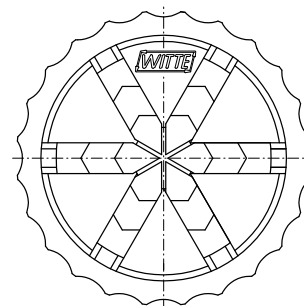
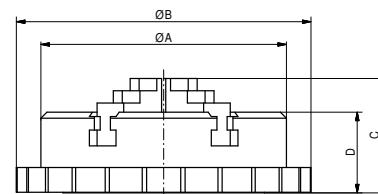
→ Article colour anodized natural

→ Article colour anodized black

6 Jaw Keyless Chuck

for measuring applications

Nr.	A	B	C	D	
82340	50	60	23,4	17,3	97
82090	80	96	35	25,3	380
82135	125	146	53,1	38,4	1.385
82210	200	236	79,1	55,3	5.120

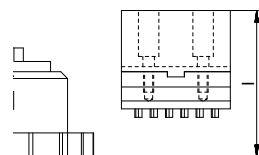
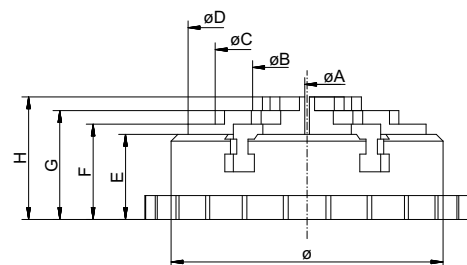


Concentricity base to part:
Repeatable accuracy max. 0,1mm, absolute accuracy 0,3mm

Further dimensions

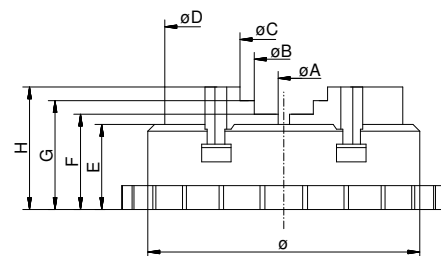
6 jaw keyless chuck

ø	A	B	C	D	E	F	G	H	I
50	1,5-29	18-45	30-57	42-69	17,3	18,4	21	23,4	30,3
80	2-44	27-69	47-89	66-108	25,3	27	31	35	44,8
125	3-71	44-112	76-144	108-176	38,4	41,1	47,1	53,1	69
200	5-113	59-167	113-221	169-277	55,3	63,1	71,1	79,1	103,3



6 jaw keyless chuck with reversed jaws

ø	A	B	C	D	E	F	G	H	I
50	10-30	22-42	34-54	50-70	17,3	18,4	21	23,4	30,3
80	18-43	36-61	56-81	81-106	25,3	27	31	35	44,8
125	27-68	59-100	91-132	131-172	38,4	41,1	47,1	53,1	69
200	43-110	99-166	153-220	207-274	55,3	63,1	71,1	79,1	103,3



ALUFIX CLASSIC elements can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request.



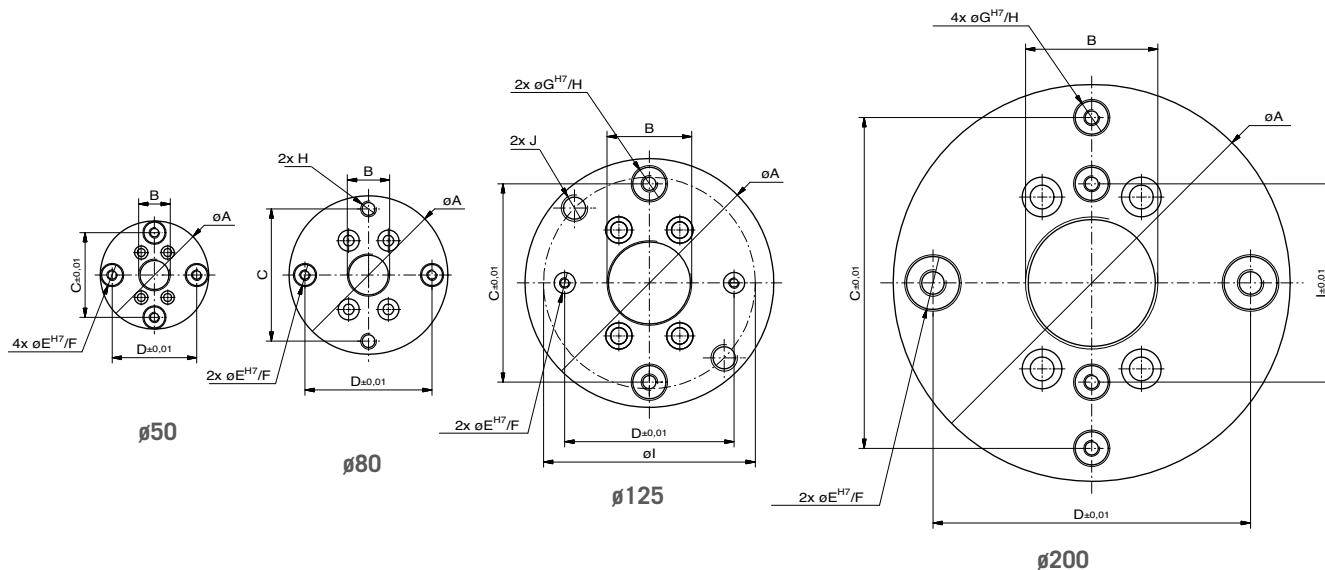
Fixing disks for mounting keyless chucks are shown on page 123.
Other versions on request.

Further dimensions

3 and 6 jaw keyless chucks, view from underneath

Fixing disks for mounting keyless chucks are shown on page 123.

Ø	A	B	C	D	E	F	G	H	I	J	AF
50	41	M12x0,5	32	32	8	M4	-	-	-	-	16
80	60	M 16x1	50	48	8	M4	-	M6	-	-	16/25
125	94	M32x1	75	64	8	M4	12,5	M6	80	M10	16/25/40
200	150	M50x1,5	125	120	20	M10	12,5	M6	75	-	25/40



Basic Set 3 jaw Keyless chuck

19-pcs., 1 x chuck with reversible jaws,
1 x Base jaw set, 9 x Top jaws, 6 x Screws

Nr.	Ø	comprising of:	g
82373	50	1x82220, 1x82351, 9x26288, 6x11434	138
82376	80	1x82080, 1x82356, 9x26289, 6x11435	523
82378	125	1x82125, 1x82360, 9x26290, 6x10437	1.946
82380	200	1x82200, 1x82364, 9x26291, 6x10631	7.300



Basic Set 6 jaw Keyless chuck

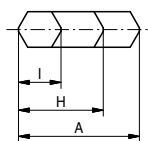
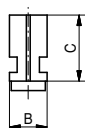
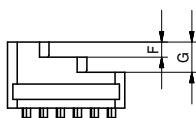
37-pcs., 1 x chuck with reversible jaws,
1 x Base jaw set, 18 x Top jaws, 12 x Screws

Nr.	Ø	comprising of:	g
82374	50	1x82340, 1x82354, 18x26288, 12x11434	173
82377	80	1x82090, 1x82358, 18x26289, 12x11435	690
82379	125	1x82135, 1x82362, 18x26290, 12x10437	2.595
82381	200	1x82210, 1x82366, 18x26291, 12x10631	9.830



ALUFIX CLASSIC elements can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request.

Material: High tensile aluminium, surface base unit: Anodized CO, Surface jaws and clamp ring: Hard coated.
Keyless chucks are operated by hand without tools



Reversible jaws set

for 3 jaw chuck

Nr	for $\varnothing$	A	B	C	D	E	F	G	
82350	50	20	5,9	10,7	-	-	2,5	5	10
82355	80	32	9,9	17,5	-	-	4,0	8	30
82359	125	52	15,9	27,1	-	-	6,0	12	120
82363	200	82	24,9	44,1	-	-	8,0	16	370

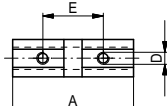
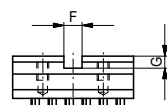


Also fit in 6 jaw chucks

Base jaws set

for 3 jaw chuck

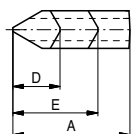
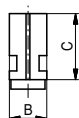
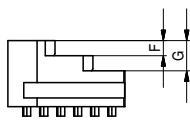
Nr	for $\varnothing$	A	B	C	D	E	F	G	
82351	50	20	5,9	6,6	M2	10	3	2	10
82356	80	32	9,9	10,9	M3	16	5	3	20
82360	125	52	15,9	17,5	M5	24	8	5	160
82364	200	82	24,9	28,5	M8	40	12	8	380



Reversible jaws set

for 6 jaw chuck

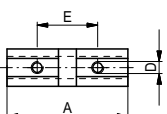
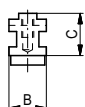
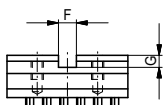
Nr	for $\varnothing$	A	B	C	D	E	F	G	
82353	50	20	5,9	10,7	8	14	2,5	5	20
82357	80	32	9,9	17,5	12,5	22,5	4	8	60
82361	125	52	15,9	27,1	20	36	6	12	240
82365	200	82	24,9	44	27	54	8	16	1.000



Base jaws set

for 6 jaw chuck

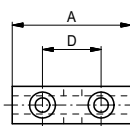
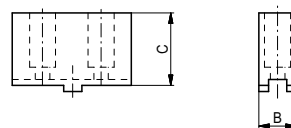
Nr	for $\varnothing$	A	B	C	D	E	F	G	
82354	50	20	5,9	6,6	M2	10	3	2	18
82358	80	32	9,9	10,9	M3	16	5	3	50
82362	125	52	15,9	17,5	M5	24	8	5	190
82366	200	82	24,9	27,5	M8	40	12	8	750



Top jaws single

to use on base jaws, for 3 and 6 jaw keyless chucks

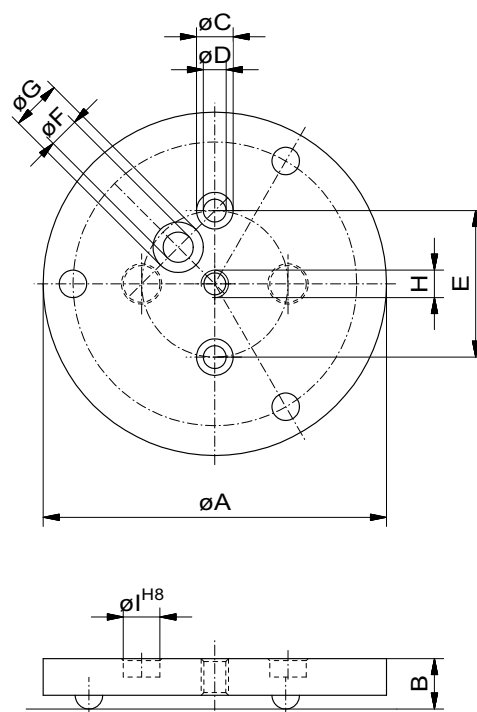
Nr	for $\varnothing$	A	B	C	D	Material	g
26288	50	20	5,9	12	10	EN AW-7075	3
26288-10	50	20	5,9	12	10	POM	2
26289	80	32	9,9	18	16	EN AW-7075	13
26289-10	80	32	9,9	18	16	POM	10
26290	125	52	15,9	28	24	EN AW-7075	50
26290-10	125	52	15,9	28	24	POM	43
26291	200	82	24,9	44	40	EN AW-7075	150
26291-10	200	82	24,9	44	40	POM	139



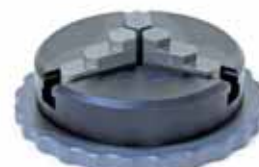
Center plate

for 3 and 6 jaw keyless chucks

Nr	for $\varnothing$	A	B	C	D	E	F	G	H	I	g
82371	50	75	11	8	5	32	6,6	11	M6	8	100
82159	80	120	13	11	6,6	50	-	-	-	8	317
82344	125	187	18	11	6,6	75	-	-	-	8	493
82345	200	300	28	18	11	120	-	-	-	12,5	528

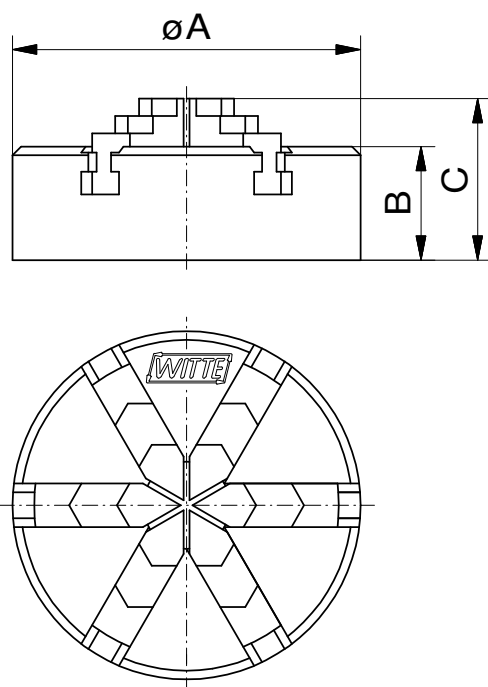


Special version hardslide coated
3 jaw keyless chuck



ALUFIX CLASSIC elements can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request.

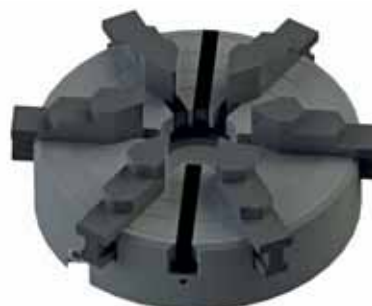
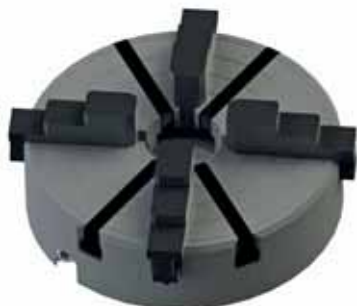
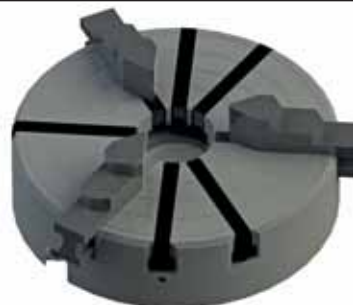
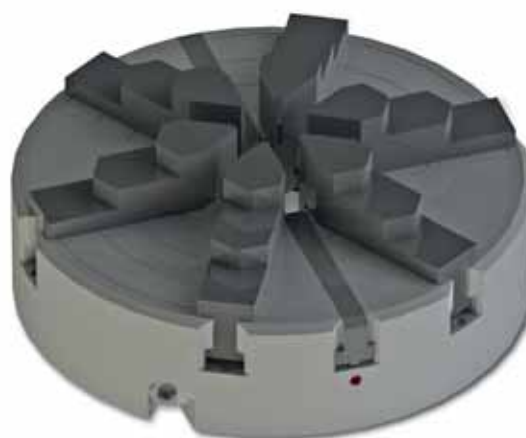
Other dimensions on request



Keyless chuck

for 2,3,4,6 jaws $\varnothing 125$ anodized natural

Nr.	A	B	C	
285291	125	33	50	1300



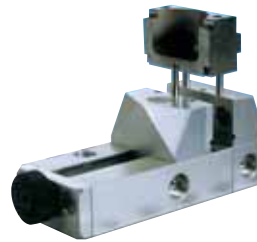
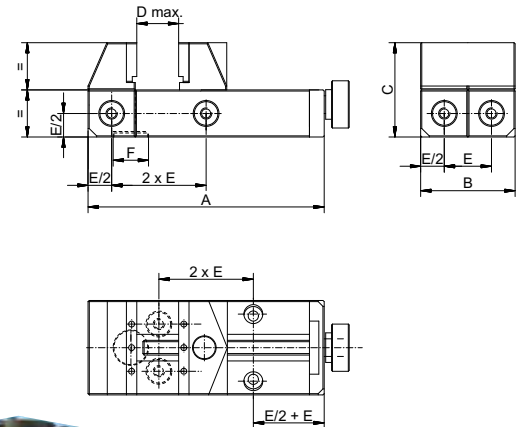
6 stepped standard jaws are included in supply.
Base and special jaws are available on request.
Base same as chuck $\varnothing 125$: 82125, 82135.
Suitable Center plate: No. 287192.

Parallel-vise

without pins

Nr	E (AF)	A	B	C	D	E	F	H	g
81784	16	80	32	32	40	16	M12x0,5	14	135
81785	25	125	50	50	65	25	M24x1	14	750
81786	25	150	75	50	90	25	M24x1	15	905
81787	25	175	100	50	115	25	M24x1	15	1.410
81788	40	320	120	80	225	40	M32x1	17	4.620
81789	40	360	160	80	265	40	M32x1	17	6.150

Fixing Disks for connection are shown on page 123



Vise set

10-pcs., comprising of

Nr.	System	Vise	Flat jaw	Pins	V-jaw	V-jaw
		1x	Alu 2x	3x	small 2x	big 2x
81790	AF 16	81784	24580	24604	24586	24598
81791	AF 25	81785	24581	24605	24587	24599
81792	AF 25	81786	24582	24605	24588	24600
81793	AF 25	81787	24583	24605	24589	24601
81794	AF 40	81788	24584	24606	24590	24602
81795	AF 40	81789	24585	24606	24591	24603

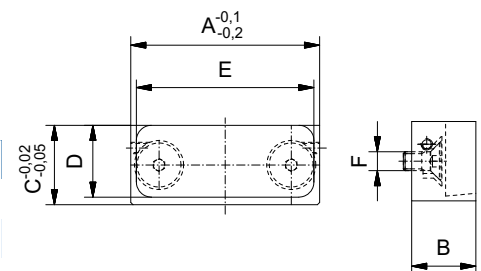
Jaws also available per piece
Flat and V jaws are also available in polymer (POM black)



Forming jaw

with bushes, for compound resin

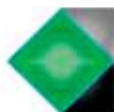
Nr	System	A	B	C	D	E	F	g
81831	AF 16	32	10	13,5	12	29	M3	10
81832	AF 25	50	17	21	19	47	M5	30
81833	AF 25	75	17	21	18,5	71	M5	40
81834	AF 25	100	17	21	18,5	96	M5	60
81835	AF 40	120	34	33,5	30	112	M8	170
81836	AF 40	160	34	33,5	30	152	M8	226



Supply includes:
1 forming jaw,
2 bushes,
2 Threaded pins,
2 countersunk screws



Preference item:
Articles with green diamond →
are available ex stock!



→ Article colour anodized natural

→ Article colour anodized black

Compound resin

Nr.	contents g	
80692	100	120
80685	400	460

Technical details:

Tensile strength 300kg/cm²

Compression strength: 800kg/cm²

Heat resistance upto +200°C

Plasticine compound resin

Knead blue and yellow components in ratio 1:1,
blend well until colour throughout is green.

Apply within 15 minutes. The resin hardens to full strength within 3 hours.



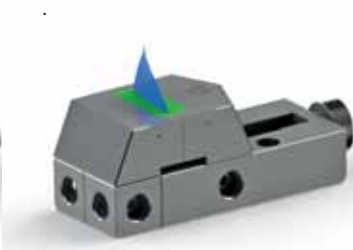
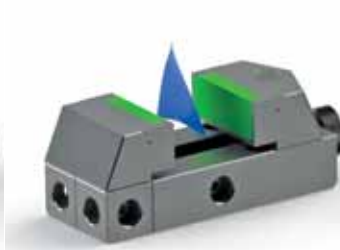
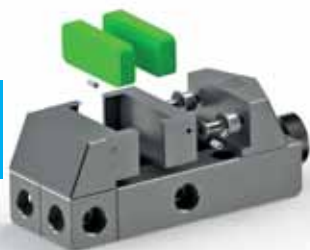
Application example for compound resin in standard moulding cap

Attaching the forming jaws with plasticine compound:

Positioning of workpiece:

The forming jaws with the compound resin are pressed together.

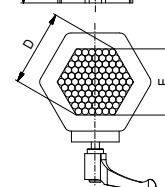
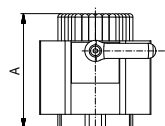
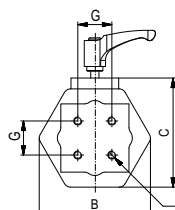
The compound resin adjusts to the contours of the workpiece



Pin cushion

with rubberized pins

Nr	A	B	C	D	E	F	G	
91940	84	81,5	80	55	48,5	6	25	1.400
98101	84	52	55	35	31	6	25	1.100



Easy to move pins adjust to shape of workpiece.

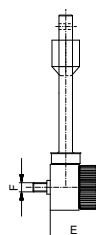
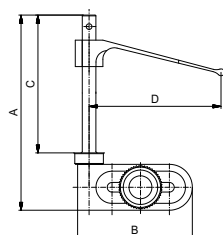
Then by using a locking device the resulting imprint is secured into place. This enables repeatable clamping of workpieces, that can be secured with hold down springs and studs.

Hold-down column clamp

for pin cushion, in set (2 pieces)

with hold down columns and springs

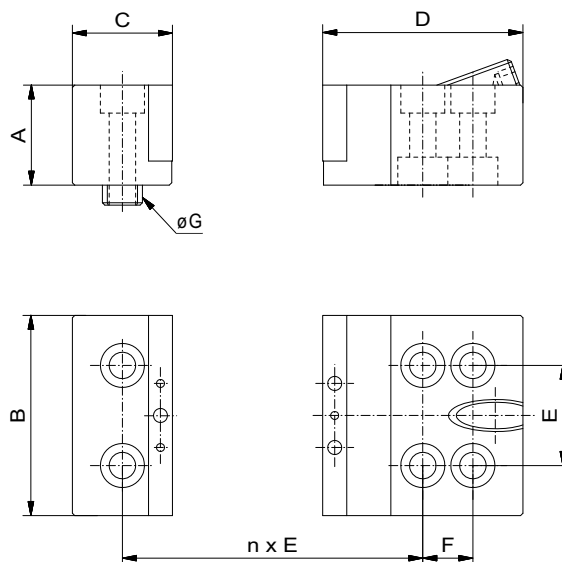
Nr	A	B	C	D	E	F	
91941	85	50	60	57,5	20,5	M4	80



Universal Vise

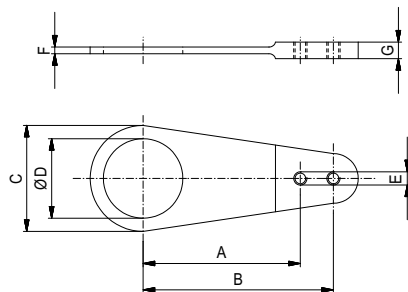
2 pcs., without basic unit for mounting on base plates or grid base plates, Shift $\pm 12,5$ mm

Nr.	System	A	B	C	D	E	F	G	
93498	AF25	25	50	25	40	25	12,5	12,5	296
289488	AF40	40	80	40	64	40	20	20	878



ALUFIX CLASSIC elements can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request.

Other versions on request

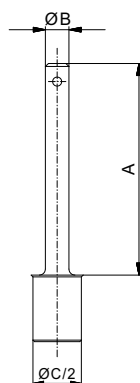


Mounted between screw jacks (page 74) and top sections (page 78)

Traverse holder with heel

for hold-down stud

Nr.	A	B	C	D	E	F	G	
22267	47,5	57,5	32	24	M4	2	5	11
22268	47,5	57,5	32	24	M6	2	5	11

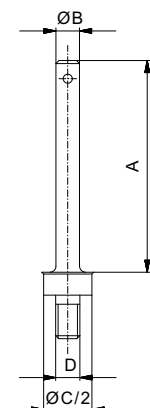


Hold down stud

self locking



Nr.	A	B	C	
20338	35	3,9	16	3
22259	55	5,9	16	5
22260	60	5,9	25	9

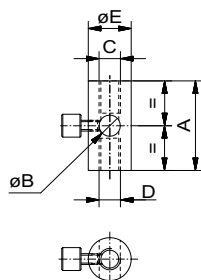


Hold down stud

with thread



Nr.	A	B	C	D	
20339	35	3,9	16	M4	3
22262	55	5,9	16	M4	5
22263	60	5,9	25	M6	8
24885	125	5,9	25	M6	15
20100	130	9,8	40	M10	38
30126	120	11,9	50	M12	56

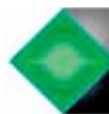


Cross connector

for hold-down stud

Nr.	A (AF)	B	C	D	E	
287053	16	ø3,9	M6	M4	ø12	3
287054	25	ø5,9	M6	M6	ø12	6
287055	40	ø9,8	M6	M10	ø20	28
287056	50	ø11,9	M10	M12	ø20	55

Preference item:
Articles with green diamond →
are available ex stock!



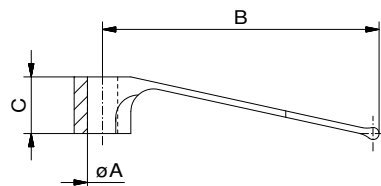
→ Article colour anodized natural

→ Article colour anodized black

Hold down spring

self locking on hold down stud

Nr.	System	A	B	C	Clamp force	
20244	AF 16	4	36	7,5	8 N	1
20290	AF 25/16	6	36	7,5	12 N	1
22258	AF 25/16	6	59	11,5	24,5 N	6
24499	AF 25	6	105	11,5	12 N	30
22355	AF 40	10	94	19,2	49 N	60
28058	AF 50	12	118	23	59 N	50



Hold down spring, plastic

Nr.	System	ø	l	
53976	AF 25/16	6	63,5	4
53977	AF 25/16	6	109,5	6

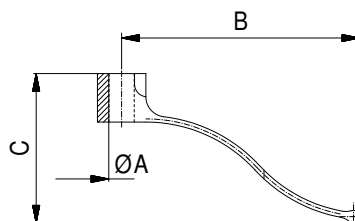
Further versions in NewXS catalogue



Hold down spring

for low clamping

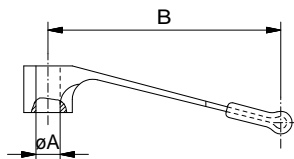
Nr.	System	A	B	C	Clamp force	
34634	AF 16	4	36,5	23,5	8 N	2
34764	AF 16	6	36,5	23,5	12 N	1
34765	AF 25	6	59	37	24,5 N	3
34766	AF 40	10	94,5	59,5	49 N	27
34767	AF 50	12	118	74	59 N	50



Hold down spring with plastic cap

silicone free for sensitive surfaces

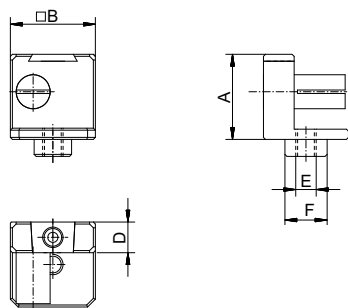
Nr.	System	A	B	
93442	AF 25/16	6	103,5	9
93443	AF 25/16	6	57,5	6



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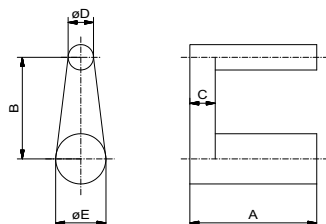


Other versions on request



Winder

Nr.	System	A	B	AF	D	E	F	g
80742	AF 16	16	16	16	6	M4	8	11
80743	AF 25	25	25	25	9	M6	12,5	34
80744	AF 40	40	40	40	14	M8	20	169



Deflector

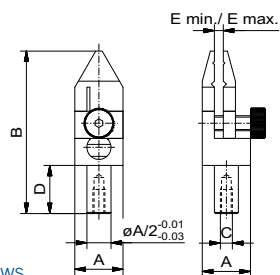
Nr.	System	A	B	C	D	E	g
22274	AF 16	19	16	3	4	7,9	4
22275	AF 25	31	25	6	6	12,4	16
22276	AF 40	50	40	10	10	19,8	66



Winder tape

in plastic, 12mm wide

Nr.	System	length (m)
00041	AF 16/25/40	5

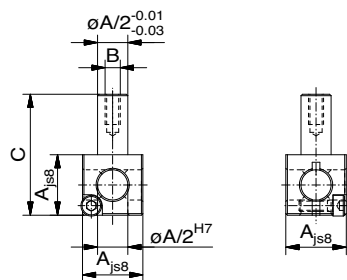


Other versions of exchangeable jaws available on request

Parallel clamp

with exchangeable jaws

Nr.	A	B	C	D	E min.	E max.	g
284585	10	34	M2,5	10	0	5	16
284476	16	54	M4	16	0	8	20
284134	25	65	M6	5	0	12,5	-



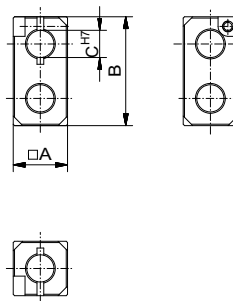
Clampholder

with studs

Nr.	A	B	C	g
285043	16	M4	32	8
288283	25	M6	30	-

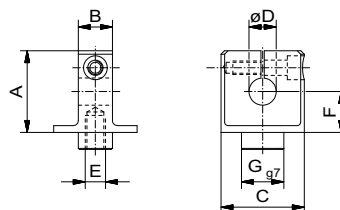
Dial indicator holder

Nr.	System	A	B	C	
80128	AF 16	16	32	8	14



Dial indicator holder

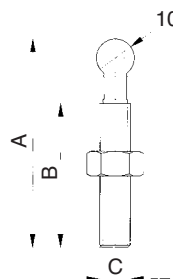
Nr.	System	A	B	C	D	E	F	G	
80755	AF 25	24	10	24,5	8	6	12	12,5	10
80756	AF 40	24	11,9	39,5	8	8	12	20	77



Ball point

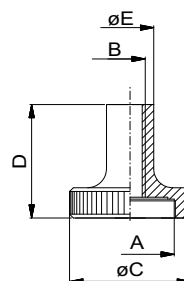
with or without ring magnet

Nr.	A	B	C	D	
93518	55	38	M8x1	-	20



Support for ball point

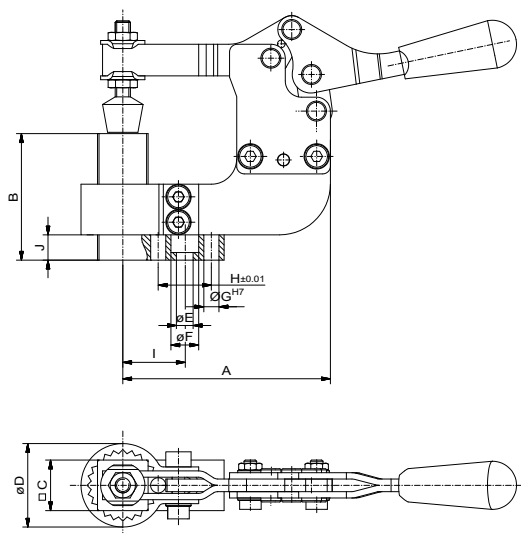
Nr.	A	B	C	D	E	
55032	M24x1	M8x1	32	30	12,5	76



ALUFIX CLASSIC elements can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request.



Other versions on request



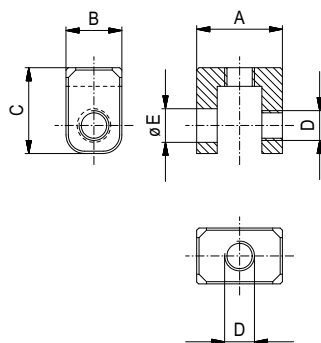
Clamp unit with ratchet grip

spacing 15°, for toggle clamp 217 UBL, with surface contact 20

Nr.	A	B	C	D	E	F	G	H	I	J	Pressure fork#	
282000	87	50	20	33	6,6	11	6	21	24,7	10	./.	200
282001	87	50	20	33	6,6	11	6	21	24,7	10	./.	200
282003	112	70	20	33	6,6	11	6	21	24,7	10	./.	220
282004	87	70	20	33	6,6	11	6	21	24,7	10	./.	220
282005	112	70	20	33	6,6	11	6	21	24,7	10	357582	240
282006	112	50	20	33	6,6	11	6	21	24,7	10	357582	240
282007	112	70	20	33	6,6	11	6	21	24,7	10	357578	250
282008	112	50	20	33	6,6	11	6	21	24,7	10	357578	250



Foot for pressure fork



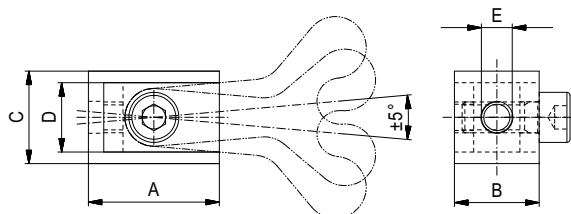
Nr.	A	B	C	D	E	
87590	23	15	23	M8	9	25



Foot for pressure fork

limited angle

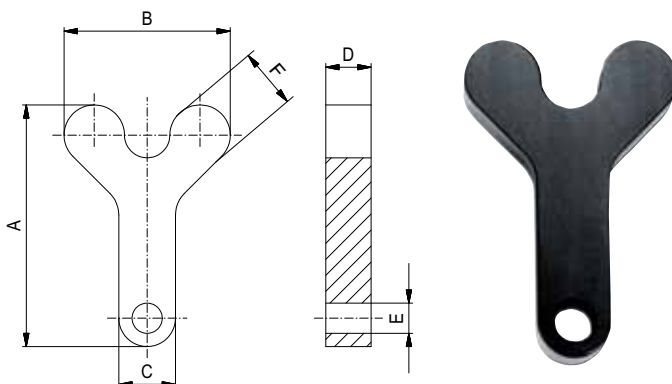
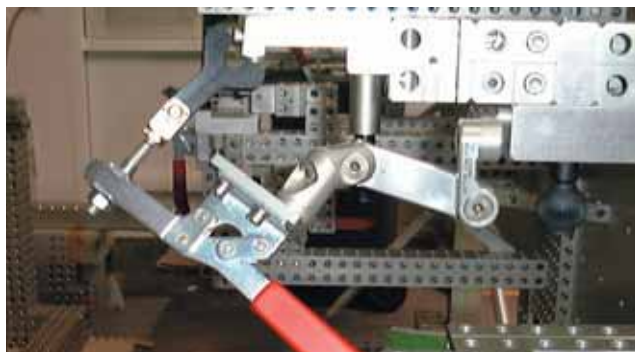
Nr.	A	B	C	D	E	
89931	34	22	24	18	M8	50



Pressure fork

long, plastic

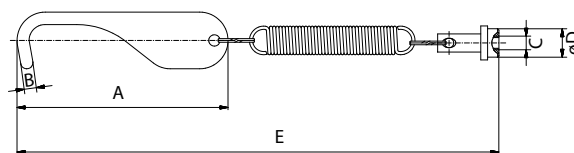
Nr.	A	B	C	D	E	F	
28367	64	44	15	12	8	16	20



In order to protect workpieces these pressure forks are made out of a polymer which contains no substances which could be dangerous to part during painting job at a later stage.

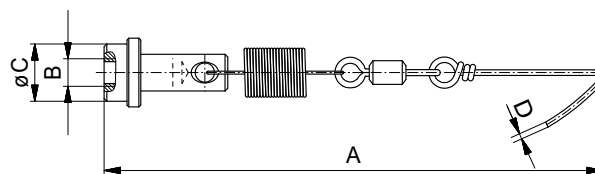
Spring with hook

Nr.	System	A	B	C	D	E	mat. hook	
84195	AF25	152	5,5	M 6	ø12,5	265	Alu	72
84192	AF25	93	5,5	M 6	ø12,5	210	Alu	47
84196	AF40	152	5,5	M10	ø20	275	Alu	92
90557	AF40	152	5,5	M10	ø20	275	Alu	70
84194	AF40	93	5,5	M10	ø20	215	POM	67



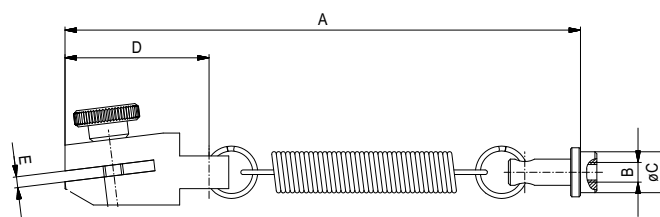
Spring with wire hook

Nr.	System	A	B	C	D	
93496	AF 25	109	M6	ø12,5	ø1,2	32



Polymer clamp with spring

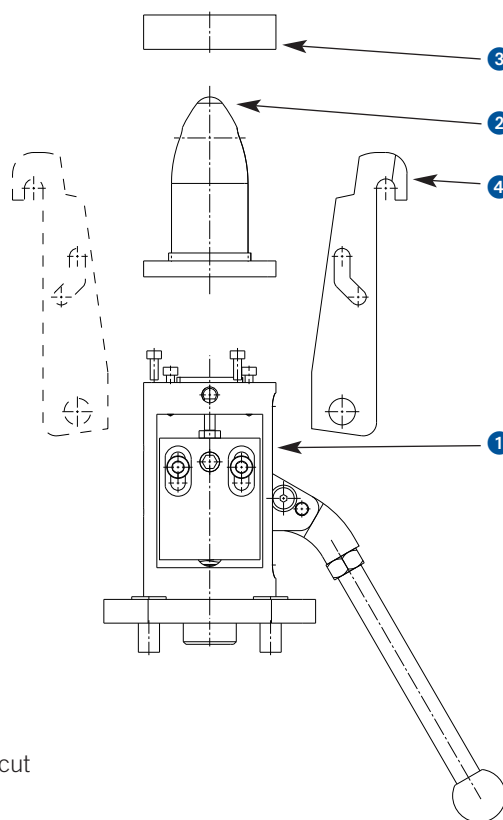
Nr.	System	A	B	C	D	E	
93497	AF 25	157	12	ø12,5	44	3,3	41



Other versions on request

ALUFIX Hook Clamps

Hook clamps are used when workpieces with a hole (especially on the inside of a workpiece, where it is difficult to clamp conventionally) have to be positioned and clamped simultaneously. They are usually connected by means of a contour block but they can be mounted directly to Alufix.



How to order:

Hook clamps are individually manufactured for every hole or press cut and comprise of four parts:

- ① Basic unit
- ② Top pin
- ③ Support ring
- ④ Hook (optional two hooks)

When ordering a hook clamp please attach a 1:1 section drawing of the support with details of the center pin diameter and the shape of the bore (round or oval). Further we need details of clearance behind the hole, metal thickness, collar height and direction in which part has been stamped

When ordering basic unit please also state required hook size
See also our download inquiry form under www.alufix.de/downloads

Hook Clamp compact

Example dia 30

A	B	C	D	E	F	G	H	I	g
30	50	110	9	159	80	112	20	M8	1156

1 Hook Clamp Basic Unit

Compact

Nr.	for pin dia	g
281408	Ø15-Ø39	669
281411	Ø40-Ø60	700

2 Top pin

Compact / Compact mini

Nr.	pin dia	g
34389	Ø15,0-0,02mm	108
51512	Ø20,0-0,02mm	145
391436	Ø25,0-0,02mm	201
34388	Ø30,0-0,02mm	254
54120	Ø40,0-0,02mm	456

3 Support ring

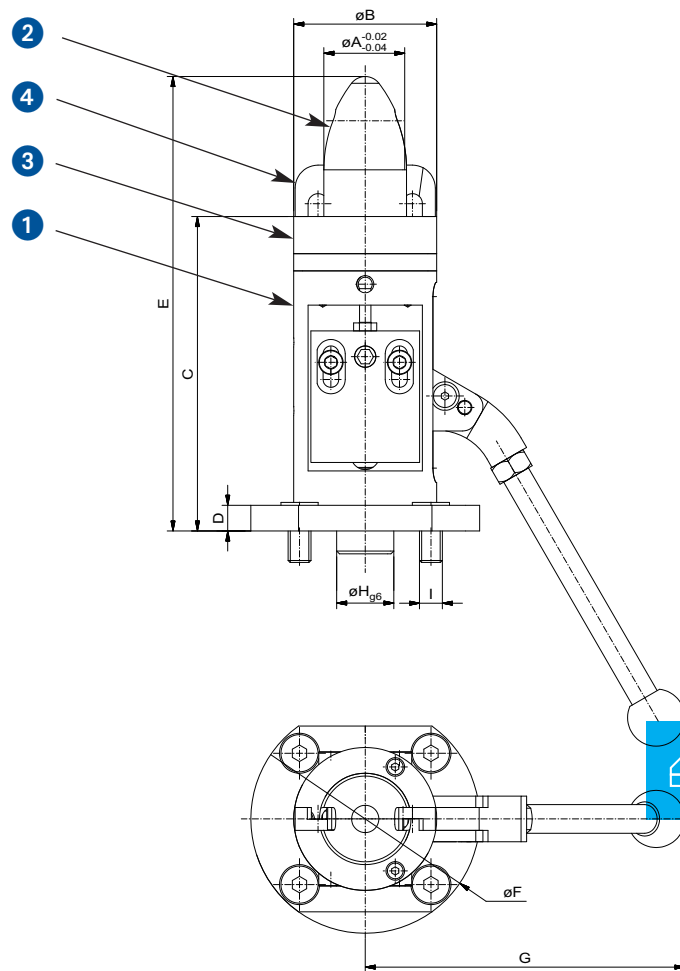
Compact / Compact mini

Nr.	surface dia	g
53384	Ø30mm	106
56036	Ø35mm	112
26589	Ø40mm	128
390548	Ø45mm	106
26592	Ø50mm	110
33020	Ø55mm	152
397265	Ø60mm	182

4 Hook

Compact

Nr.	clamping width	g
30759	30mm	80
394903	35mm	88
28399	40mm	94
30760	45mm	100
28400	50mm	122
33350	55mm	125
28401	60mm	128

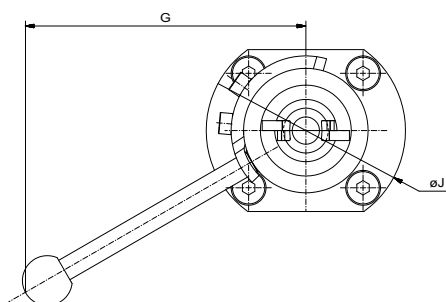
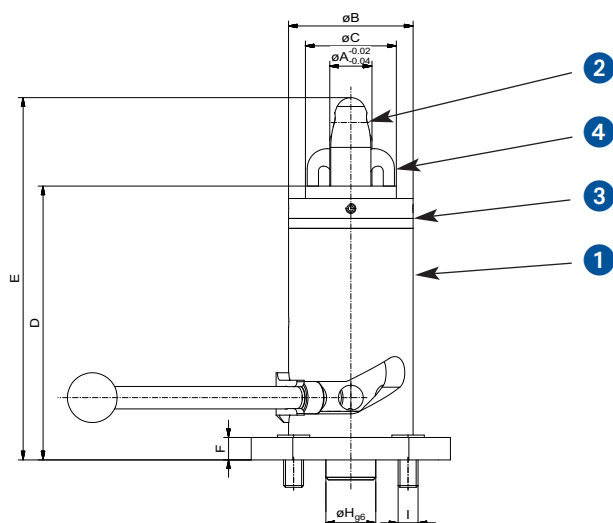


i Internal excenter lever, top pin and support ring are 100% compatible (outer dimensions same as existing hook clamps). Sideways activation possible via hex key



i **ALUFIX CLASSIC** elements can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request.

i Other dimensions on request



- i** Tolerances in workpiece thickness of up to $\pm 0,3\text{mm}$ are evened out. Fast adjustment according to workpiece thickness possible. More space between operating lever and clamping surface = more freedom of movement and less part collision due to horizontal lever movement. Hook alignment independent of lever orientation, infinite rotary movement 360° . Support ring infinite rotary movement 360° .

Hook Clamp Compact Flexible

Example dia 30

A	B	C	D	E	F	G	H	I	J	g
18	50	36,5	110	145,5	9	112	20	M8	80	991

1 Hook Clamp Basic Unit

Compact flexible

Nr.	Base height	g
281886	110mm (low-standard)	700
281887	160mm (high)	1047

2 Top pin

Compact flexible

Nr.	pin dia	g
306051	$\phi 18-0,02\text{mm}$	159
306052	$\phi 20-0,02\text{mm}$	169
309929	$\phi 25-0,02\text{mm}$	199
306053	$\phi 30-0,02\text{mm}$	245
304272	$\phi 40-0,02\text{mm}$	410

3 Support ring

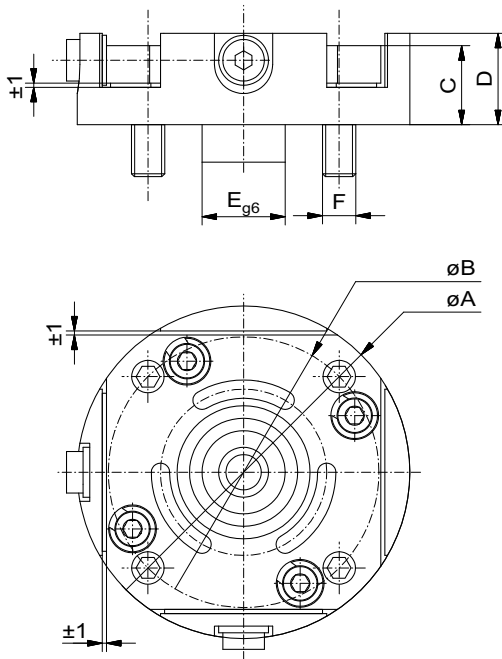
Compact / Compact mini

Nr.	surface dia	g
311718	$\phi 30\text{mm}$	88
311720	$\phi 35\text{mm}$	98
306056	$\phi 40\text{mm}$	104
311722	$\phi 45\text{mm}$	101
306057	$\phi 50\text{mm}$	116
311739	$\phi 55\text{mm}$	100
304273	$\phi 60\text{mm}$	145

4 Hook

Compact flexible

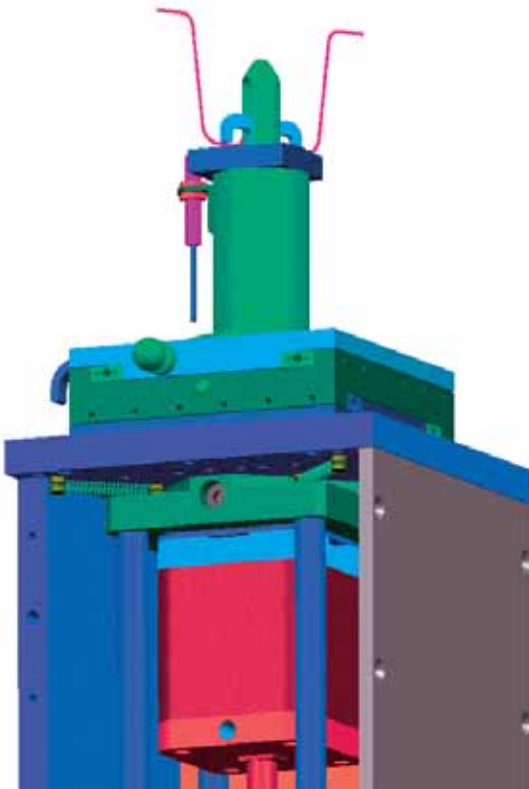
Nr.	clamping width	g
311717	30mm	26
306058	35mm	36
306059	40mm	38
306060	45mm	40
306061	50mm	46
311738	55mm	48
304274	60mm	50



Foot for hook clamps

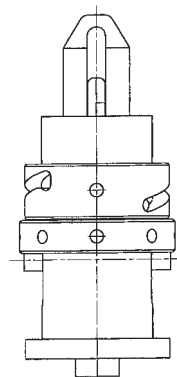
X,Y,Z shimmable including shim foils

Nr.	A	B	C	D	E	F	Ø
281407	80	65	19	22	20	M8	286

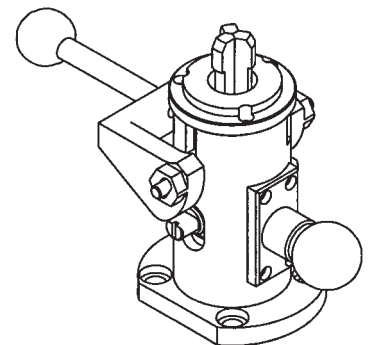


Additional hook clamps

Previously supplied hook clamps are still available.
Details and availability on request.



Hook clamp with excenter movement and adjustment for workpiece thickness

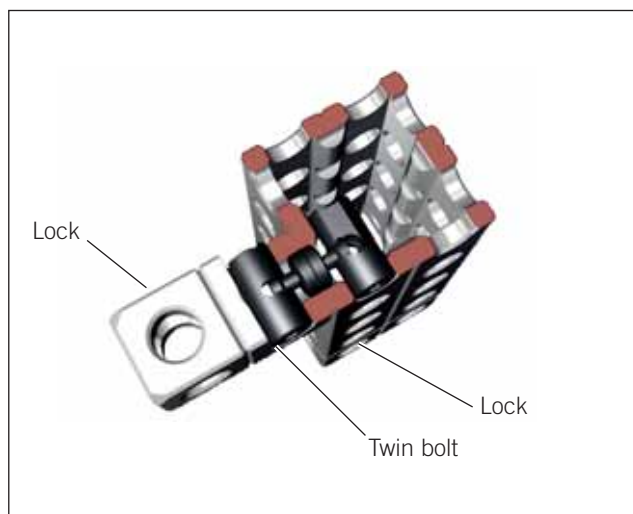


X,Y,Z hook clamp, self centering

ALUFIX CLASSIC

Connection Elements

A variety of elements allows combination of Alufix components whenever two opposite holes, or a hole and a nub are to be connected. This works also between different system sizes using reducer sleeves.

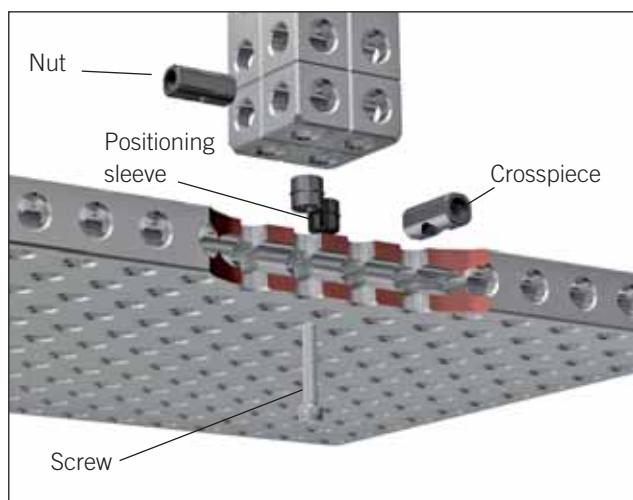


Quick connection

For fast, constantly changing fixtures we recommend using quick connection elements.

A twin bolt is positioned between Alufix elements to be connected. An excentric slot on the lock slides round and grips the head of a twin bolt resulting in a tight connection.

 Recommended torque must be adhered to otherwise head of twin bolt may be damaged.



Screw connection

For lasting tight connections the screw connection has proved to be the best.



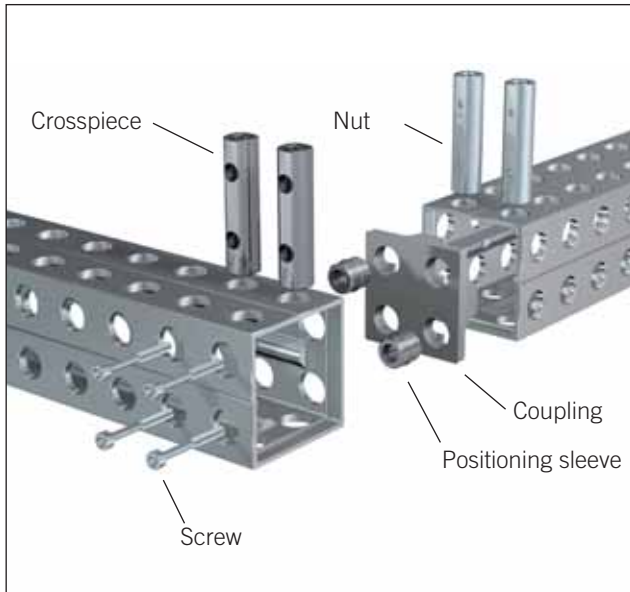
Connecting different system sizes

Alufix elements in different system sizes are connected using

- Reducer sleeves
- Reducer bolts

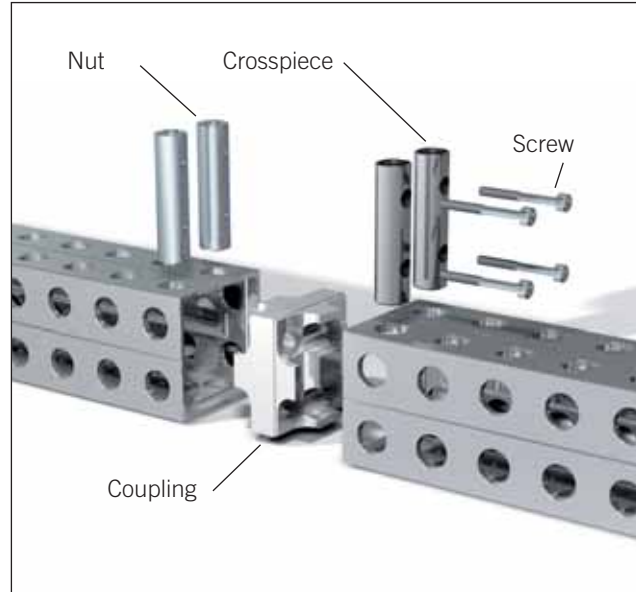


Connecting with couplings



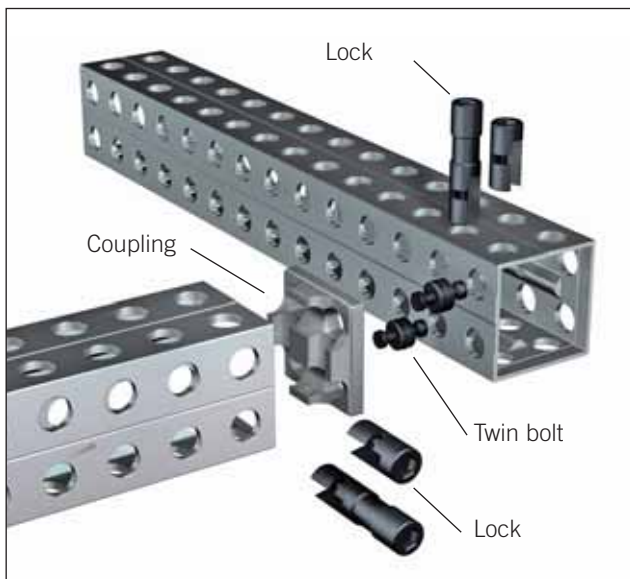
Single coupling with screw connection

is used in face ends of Light bars for accurate positioning of further elements. Picture shows assembly using screw connectors



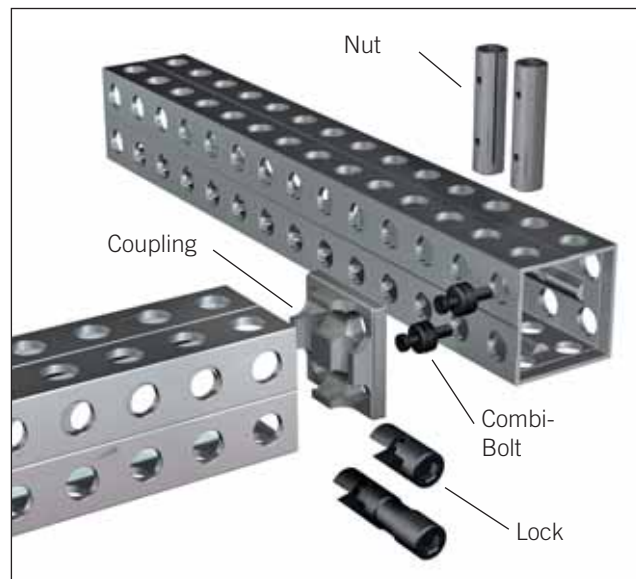
Double coupling with screw connection

is used for centering two Light bars end to end. Picture shows assembly using screw connectors, quick connectors are also possible.



Single coupling with quick connection

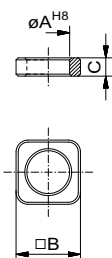
is used in face ends of Light bars for accurate positioning of further elements. Picture shows assembly using quick connectors



Single coupling with screw/quick connection (combi bolt)

is used for centering two Light bars end to end. Picture shows assembly using screw and quick connectors.

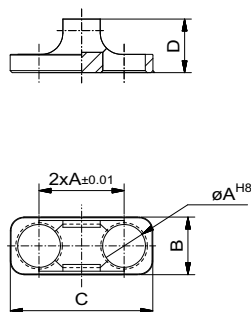




Coupling, single

for 1 row bar

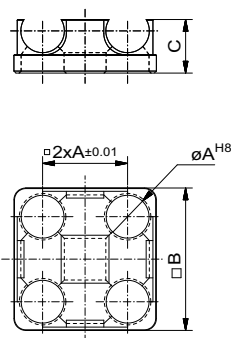
Nr.	System	A	B	C	
 23315	AF 25	12,5	19	5,4	4
20794	AF 40	20	32	8,4	16
26930	AF 50	25	32	10,9	29



Coupling, single

for rectangular bar

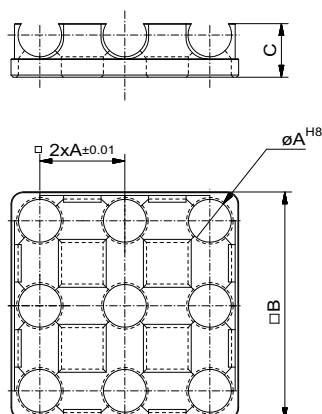
Nr.	System	A	B	C	D	
 55134	AF 25	12,5	17	42	16	10
 57211	AF 40	20	32	68	25	50



Coupling, single

for 2 row bar

Nr.	System	A	B	C	
 23325	AF 25	12,5	42	16	26
 20792	AF 40	20	68	25	120
26727	AF 50	25	84	32	228



Coupling, single

for 3 row bar

Nr.	System	A	B	C	
23612	AF 25	12,5	67	16	79
23613	AF 40	20	108	25	333
26853	AF 50	25	134	32	670

Preference item:
Articles with green diamond →
are available ex stock!



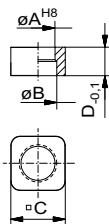
→ Article colour anodized natural

→ Article colour anodized black

Coupling, double

for 1 row bar

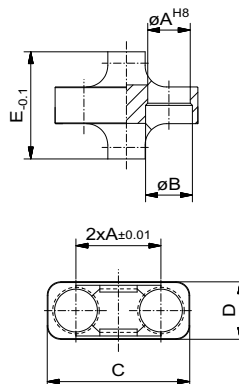
Nr.	System	A	B	C	D	
23320	AF 25	12,5	13,8	19	10,8	8
20793	AF 40	20	22	32	16,8	31
26931	AF 50	25	27,4	32	21,8	38



Coupling, double

for rectangular bar

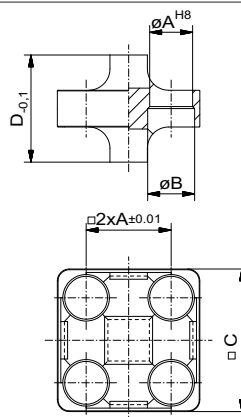
Nr.	System	A	B	C	D	E	
55316	AF 25	12,5	13,8	42	17	31,5	40
57212	AF 40	20	22	68	32	50	110



Coupling, double

for 2 row bar

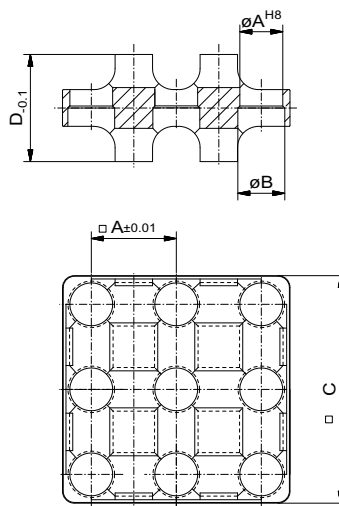
Nr.	System	A	B	C	D	
23330	AF 25	12,5	13,8	42	31,5	53
20791	AF 40	20	22	68	50,4	240
26850	AF 50	25	27,4	84	64	465



Coupling, double

for 3 row bar

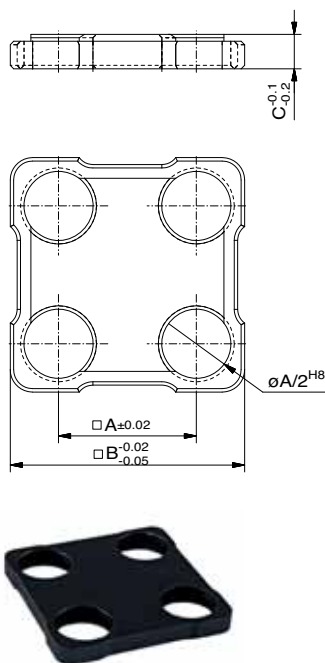
Nr.	System	A	B	C	D	
23615	AF 25	12,5	13,8	67	31,5	155
23616	AF 40	20	22	108	50,4	682
26851	AF 50	25	27,4	134	64	1.394



ALUFIX CLASSIC elements can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request.

Other versions on request

ALUFIX ECO Connection elements



Single couplings for face connections.
These couplings are used with screw connectors.

Single couplings

for Light bars one row

Nr.	System	A	B	C	
23315-E	AF 25	25	19	5	4
20794-E	AF 40	40	32	8	16
26930-E	AF 50	50	32	10	29

for Light bars rectangular 1x2

Nr.	System	A	B	C	
55134-E	AF 25	25	17x42	5	10
57211-E	AF 40	20	32x68	8	50

for Light bars two row

Nr.	System	A	B	C	
23325-E	AF 25	25	42	6,25	26
20792-E	AF 40	40	68	10	120
26727-E	AF 50	50	84	12,5	228

for Light bars three row

Nr.	System	A	B	C	
23612-E	AF 25	25	67	6,25	79
23613-E	AF 40	40	108	10	333
26853-E	AF 50	50	134	12,5	670

for Light bars three row 2x3

Nr.	System	A	B	C	øD	
122443-E	AF 40	40	68x108	10	11	-

Other dimensions on request

Preference item:
Articles with green diamond →
are available ex stock!



→ Article colour anodized natural

→ Article colour anodized black

Double couplings

for Light bars one row

Nr.	System	A	B	C	øD	
23320-E	AF 25	25	19	10	6,6	8
20793-E	AF 40	40	32	16	11	31
26931-E	AF 50	50	32	20	13,5	38

for Light bars rectangular 1x2

Nr.	System	A	B	C	øD	
55316-E	AF 25	25	17x42	10	6,6	40
57212-E	AF 40	40	32x68	20	11	110

for Light bars two row

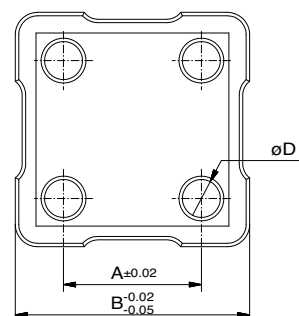
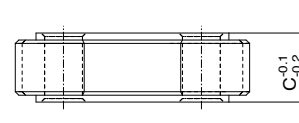
Nr.	System	A	B	C	øD	
23330-E	AF 25	25	42	10	6,6	53
20791-E	AF 40	40	68	20	11	240
26850-E	AF 50	50	84	25	13,5	465

for Light bars three row

Nr.	System	A	B	C	øD	
23615-E	AF 25	25	67	12,5	6,6	155
23616-E	AF 40	40	108	20	11	682
26851-E	AF 50	50	134	25	13,5	1.394

for Light bars three row 2x3

Nr.	System	A	B	C	øD	
122400-E	AF 40	40	68x108	20	11	-

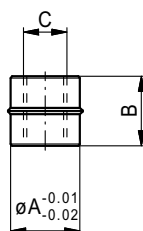


Double couplings for bar-bar connections. These couplings are used with screw connectors.



ALUFIX ECO elements can be anodized in different colours. The colour natural (-E) is standard, blue (-E2) is available as an alternative. Black (-E1) and other colours on request

Other dimensions on request

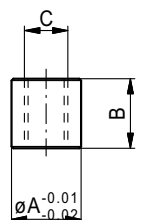


Positioning sleeve

with collar



Nr.	System	A	B	C	
21600	AF 16	8	8	M5	1
21385	AF 25	12,5	12	M8	4
21235	AF 40	20	18	M14x1,5	9
26732	AF 50	25	23	M18x1,5	16

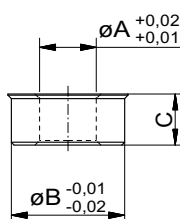


Positioning sleeve

plain



Nr.	System	A	B	C	
21599	AF 16	8	8	M5	1
21386	AF 25	12,5	12	M8	2
21278	AF 40	20	18	M14x1,5	9
26733	AF 50	25	23	M18x1,5	16

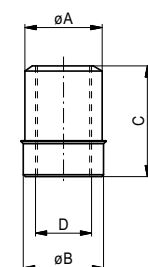


Reducer sleeve

with collar



Nr.	System	A	B	C	
21990	25/16	8	12,5	6	1
22129	40/16	8	20	9	3
21236	40/25	12,5	20	9	5
26925	50/25	12,5	25	11	10

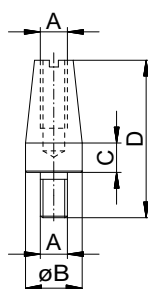


Reducer sleeve

with collar



Nr.	System	A	B	C	D	
20684	AF 25	12	12,5	18	M8	4
28260	AF 25	12,5	16	18	M8	9
22934	AF 25	12,5	22	22	M6	24
55904	AF 25	12,5	14	22	M8	42



Locating pin

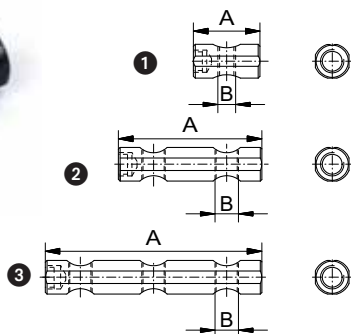
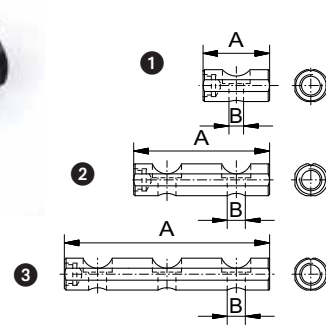


Nr.	System	A	B	C	D	
22865	AF 25	M6	12,5	6,5	30	10

22865: Version without collar

Preference item:
Articles with green diamond →
are available ex stock!




Crosspiece nut
for screw connection

Crosspiece
for screw connection


ECO		Classic				
Nr.	#	Nr.	System	B	A	

AF16

52868	①	80620	16	M3	16	2
52869	①	80621	16	M4	16	2
52870	①	81277	16	M5	16	2

AF25

52871	①	80533	25	M4	25	5
52872	①	80532	25	M5	25	5
52276	①	80531	25	M6	25	5
52873	①	82815	25	M8	25	5
52874	②	81602	25	M4	50	10
52875	②	81162	25	M5	50	10
52071	②	81168	25	M6	50	10
52876	③	82010	25	M4	75	15
52072	③	81917	25	M6	75	15

AF40

52877	①	80448	40	M6	40	25
52878	①	80449	40	M8	40	25
31550	①	80450	40	M10	40	25
52879	①	80451	40	M12	40	25
52880	②	81603	40	M6	80	50
52881	②	82806	40	M8	80	50
31552	②	81363	40	M10	80	50
52882	②	82807	40	M12	80	50
52883	③	82011	40	M6	120	75
52884	③	81921	40	M8	120	75
31554	③	81873	40	M10	120	75
52885	③	82808	40	M12	120	75

AF50

52886	①	82814	50	M6	50	50
52887	①	82813	50	M12	50	50
52888	②	82811	50	M6	100	100
31991	②	82472	50	M12	100	100
52889	③	82812	50	M6	150	150
52075	③	82471	50	M12	150	150

ECO		Classic				
Nr.	#	Nr.	System	B	A	

AF16

52890	①	21596	16	3,3	16	2
52891	①	21597	16	4,3	16	2

AF25

52892	①	21395	25	4,3	25	5
52893	①	21394	25	5,3	25	5
52277	①	21393	25	6,4	25	5
52894	②	23785	25	4,3	50	10
52895	②	22954	25	5,3	50	10
52073	②	22997	25	6,4	50	10
52896	③	25470	25	4,3	75	15
52897	③	28212	25	5,3	75	15
52074	③	25100	25	6,4	75	15

AF40

52898	①	21229	40	6,4	40	25
52899	①	21230	40	8,5	40	25
31549	①	21231	40	10,5	40	25
52900	①	21232	40	13	40	25
52901	②	23786	40	6,4	80	50
52902	②	25119	40	8,5	80	50
31551	②	20796	40	10,5	80	50
52903	③	25471	40	6,4	120	75
52904	③	28215	40	8,5	120	75
31553	③	24891	40	10,5	120	75

AF50

52905	①	27115	50	6,4	50	50
52906	①	26730	50	13	50	50
52907	②	28217	50	6,4	100	100
52908	②	26731	50	13	100	100
52909	③	28218	50	6,4	150	150
52076	③	26827	50	13	150	150

Preference item:

Articles with green diamond → are available ex stock!

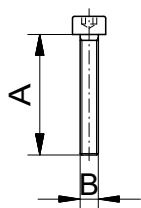


→ Classic and/or ECO


Classic version: Ideal for modular fixturing for fast easy handling

ECO version: Ideal for dedicated fixtures, without wear-reducing helicoil inserts and without threaded hole for positioning rod

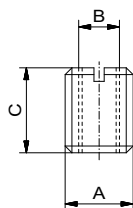
Other colours on request

Hex socket head screw

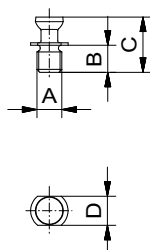
DIN 912 V2A

	Nr.	System	A	B	
◆	10706	AF 16	20	M3	1
◆	10707	AF 16	20	M4	2
◆	10526	AF 25	30	M4	3
◆	10525	AF 25	30	M5	3
◆	10524	AF 25	30	M6	8
◆	10475	AF 40	50	M6	12
◆	10476	AF 40	50	M8	24
◆	10477	AF 40	50	M10	38
◆	10478	AF 40	50	M12	53
◆	10867	AF 50	70	M12	68



Reducer bush

	Nr.	A	B	C	
	26721	M4	M2	5	1
	21859	3/8"	M6	13	1
	26045	M6	M4	9	1
	21514	M8	M4	10	3
	23905	M8	M5	10	2
	21865	M8	M6	10	2
	21477	M10	M4	12,5	5
	23906	M10	M5	12,5	4
	21866	M10	M6	12,5	7
	21867	M10	M8	12,5	10
	20584	M12	M4	15	9
	22283	M12	M5	15	8
	21868	M12	M6	15	7
	21869	M12	M8	15	6
	21870	M12	M10	15	4
	23600	M16	M12	24	13



Combi bolt

shortened, for elements with nubs

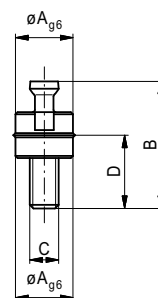
	Nr.	System	A	B	C	D	
	20341	AF 16	M4	4,5	8,9	SW5	1
◆	21500	AF 25	M6	6,5	13,3	SW7	2
◆	20347	AF 40	M10	10,5	20,8	SW11	10
	26855	AF 50	M12	12	25,9	SW14	16

Preference item:
Articles with green diamond →
are available ex stock!



Combi bolt

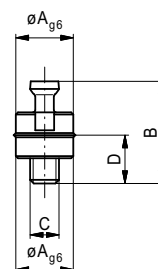
Nr.	System	A	B	C	D	
23249	AF 16	8	17,7	M4	10,2	3
23225	AF 25	12,5	28	M6	16	12
23259	AF 40	20	44	M10	25,5	64
27543	AF 50	25	55,1	M12	32	98



Combi bolt

shortened

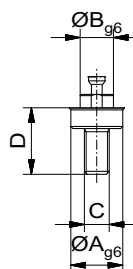
Nr.	System	A	B	C	D	
25742	AF 16	8	14,2	M4	6,7	1
25743	AF 25	12,5	22,4	M6	10,5	10
25744	AF 40	20	23,5	M10	17	61
28176	AF 50	25	44	M12	21	94



Combi reducer bolt

for connecting different system sizes

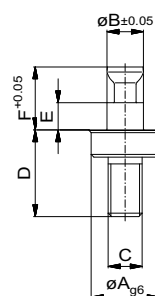
Nr.	System	A	B	C	D	
23620	AF 25/AF 16	12,5	8	M6	16	10
23621	AF 40/AF 25	20	12,5	M10	25,5	33
54400	AF 50/AF 25	25	12,5	M12	32	60
28056	AF 50/AF 40	25	20	M12	32	120

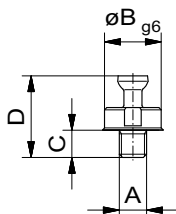


Combi bolt

AF40, for 1D bar and 2D base plate

Nr.	System	A	B	C	D	E	F	
25948	AF 25	12,5	6,7	M6	16	5	11,8	24
120510	AF 40	20	10,7	M10	25,5	8	18,5	38

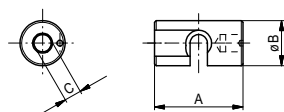




Combi bolt

for grid plate without fitted bore and keyless chuck

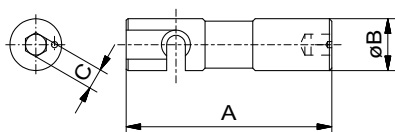
Nr.	System	A	B	C	D	g
25746	AF16	M4	8	3,5	11	2
25654	AF25	M6	12,5	6	18	10
54587	AF25	1/4"-20	12,5	12	24	10
54589	AF25	3/8"-16	12,5	12	24	12
51843	AF25	M8	12,5	6	18	12
54588	AF25	M8	12,5	12	24	15
25747	AF40	M10	20	808	27,3	40
27821	AF50	M12	25	11	34,1	80
34763	AF50	M12	25	20	43,1	90



Lock Alufix

standard lock for quick connection

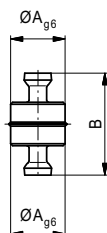
Nr.	System	A	B	C	g
23250	AF 16	16	8	SW3	4
23240	AF 25	25	12,5	SW5	13
23260	AF 40	40	20	SW8	58
26856	AF 50	50	25	SW10	116



Lock Alufix Light

for quick connection of Alufix Light bars

Nr.	System	A	B	C	g
23246	AF 25	50	12,5	SW3	36
20385	AF 40	80	20	SW5	130
26801	AF 50	100	25	SW10	300
27930	AF 50	150	25	SW10	489



Twin bolt

for quick connection

Nr.	System	A	B	g
23247	AF 16	8	15	3
23223	AF 25	12,5	24	12
23257	AF 40	20	37	48
26854	AF 50	25	47	94

! Recommended torque should not be exceeded,
see tools on page 127

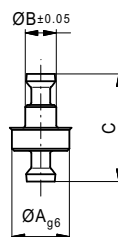
Preference item:
Articles with green diamond →
are available ex stock!



Twin bolt

for bar 1D and base plate 2

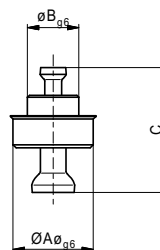
Nr.	System	A	B	C	g
23248	AF 16	8	4	15	2
23228	AF 25	12,5	6,7	24	8
23258	AF 40	20	10,7	37	34
28208	AF 50	25	13,7	47	70



Reducer bolt

for quick connection

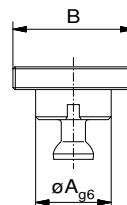
Nr.	System	A	B	C	g
20328	AF 25/AF 16	12,5	8	19,5	8
23452	AF 40/AF 25	20	12,5	30,5	30
28209	AF 50/AF 40	25	20	41,6	38
30580	AF 50/AF 25	25	12,5	35	33



Bolt disk with stud

for quick connection of screw jacks, vises or top sections onto base plates or bars

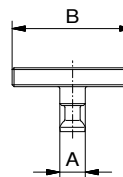
Nr.	System	A	B	g
23646	AF 16	8	M12x0,5	5
23252	AF 16	8	M24x1	16
120027	AF 25	12,5	M12x0,5	AF
23239	AF 25	12,5	M24x1	22
23238	AF 25	12,5	M32x1	39
23262	AF 40	20	M24x1	38
23264	AF 40	20	M32x1	58
26926	AF 50	25	M32x1	60

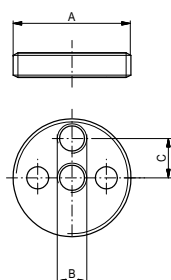


Bolt disk 1D/2D

for quick connection of screw jacks or top sections to base plates 2D or bars 1D with long slots

Nr.	System	A	B	g
23647	AF 16	4,3	M12x0,5	5
23253	AF 16	4,3	M24x1	15
23241	AF 25	6,7	M24x1	17
23244	AF 25	6,7	M32x1	36
23263	AF 40	10,7	M24x1	24
23265	AF 40	10,7	M32x1	43

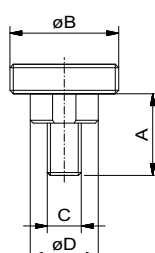




Disk

for set up independent of grid

Nr.	A	B	C	
21679	M24x1	M6	7	5
21711	M32x1	M6	9	11



Fixing disk

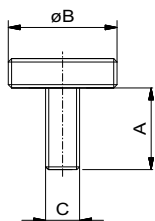
with stud shoulder

Nr.	System	A	B	C	D	
81587	AF 16	7	M12x0,5	M4	8	5
80748	AF 16	10	M24x1	M4	8	7
 80600	AF 25	15	M24x1	M6	12,5	10
80601	AF 25	19	M32x1	M6	12,5	17
82822	AF 40	19	M24x1	M10	20	28
80602	AF 40	24	M24x1	M12	20	30
92900	AF 40	24	M32x1	M10	20	32
80603	AF 40	25	M32x1	M12	20	34
82827	AF 50	30	M32x1	M12	25	45



Fixing disk

for set up independant of grid



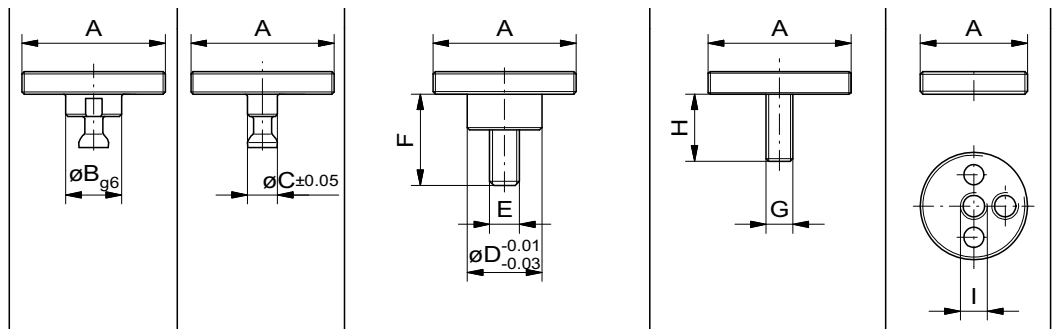
Nr.	System	A	B	C	
81589	AF 16	7,3	M12x0,5	M4	5
81489	AF 16	10,2	M24x1	M4	10
80597	AF 25	15,3	M24x1	M6	8
95905	AF 25	7,7	M24x1	1/4"-20	10
95906	AF 25	15	M24x1	M8	12
95907	AF 25	7,7	M24x1	3/8"-16	11
80598	AF 25	19,6	M32x1	M6	15
82770	AF 40	26,2	M24x1	M10	10
82771	AF 40	25,7	M32x1	M10	20
82772	AF 50	30	M24x1	M12	15
82773	AF 50	32	M32x1	M12	25

Preference item:
Articles with green diamond →
are available ex stock!



Overview connecting disks for keyless chucks

ø	A	System	#	B	#	C	#	D	E	F	#	G	H	#	I
50	M12x0,5	AF 16	23646	8	23647	4,3	81587	8	M4	7	81589	M4	8	52111	M4
50	M12x0,5	AF 25	29580	12,5											
80	M16x1,0	AF 16	52102	8	52106	4,3	93434	8	M4	7	93438	M4	7	55977	M4
80	M16x1,0	AF 25	52103	12,5	52107	6,7	93435	12,5	M6	15	93439	M6	15	21711	M6
125	M32x1,0	AF 25	23238	12,5	23244	6,7	80601	12,5	M6	19	80598	M6	15	21711	M6
125	M32x1,0	AF 40	23264	20	23265	10,7	92900	20	M10	24	82771	M10	24	52114	M10
125	M32x1,0	AF 50	26926	25	52108	13,6	82827	25	M12	25	82773	M12	29	52115	M12
200	M50x1,5	AF 40	52104	20	52109	10,7	93436	20	M10	24	93440	M10	22	52116	M10
200	M50x1,5	AF 50	52105	25	52110	13,6	93437	25	M12	25	93441	M12	27	52117	M12



Connection elements for swivel arm with joint:

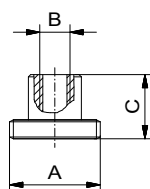
Fixing disk #25342

Reducer bush #21865

Nut M6

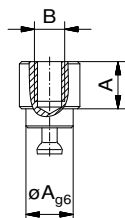
Nut M8

Bolt #25343



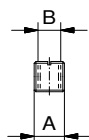
Fixing disk for swivel arm

Nr.	A	B	C	
25342	M24 x 1	M8	17	10



Bolt for swivel arm

Nr.	System	A	B	
25343	AF 25	12,5	M8	21



Reducer bush for swivel arm

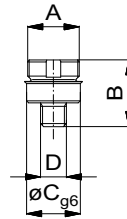
Nr.	A	B	
21865	M8	M6	1

Connection elements for keyless chucks and rotary plates

Fixing disk

for keyless chuck / screw-jack

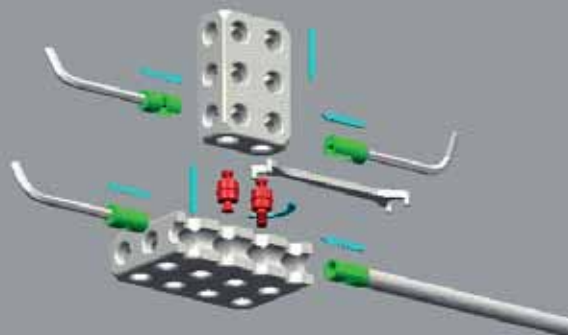
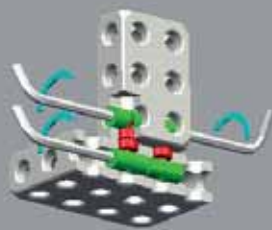
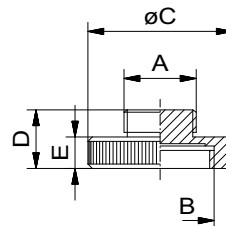
Nr.	A	B	C	D	
56118	M12x0,5	15,5	12,5	M6	19
56163	M16x1	15,5	12,5	M6	30

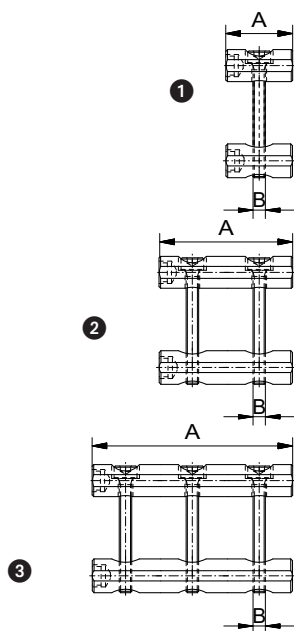


Fixing disk

for keyless chuck / screw-jack

Nr.	für HSF	A	B	C	D	E	
30084	ø 50	M12x0,5	M24x1	32	13	7	12
30085	ø 80	M16x1	M24x1	32	13	7	15





Connecting set for screw connection

ECO

Classic

Nr.	#	Nr.	System	B	A	
AF16						
94051	①	80697	16	M3	16	4
94052	①	80698	16	M4	16	14
AF25						
94053	①	80699	25	M4	25	14
94054	①	80700	25	M5	25	15
94055	①	80701	25	M6	25	20
94056	②	81598	25	M4	50	28
94057	②	82233	25	M6	50	30
94058	③	82008	25	M4	75	40
94059	③	81918	25	M6	75	50
AF40						
94060	①	80702	40	M6	40	60
94061	①	80703	40	M8	40	66
94062	①	80704	40	M10	40	85
94063	①	80705	40	M12	40	93
94064	②	81599	40	M6	80	120
94065	②	81520	40	M10	80	176
94066	③	82009	40	M6	120	180
94067	③	81896	40	M10	120	358
AF50						
94068	①	82488	50	M6	50	75
94069	①	82518	50	M12	50	120
94070	②	82489	50	M6	100	150
94071	②	82469	50	M12	100	230
94072	③	82490	50	M6	150	230
94073	③	82470	50	M12	150	350



Picture shows a screw connector
with positioning sleeves which fit
into Alufix bores



Classic version: Ideal for modular fixturing for fast easy handling

ECO version: Ideal for dedicated fixtures, without wear reducing helicoil inserts
and without threaded hole for positioning rod



Standard thread sizes are printed
in **bold** print



Quick connection set, AF 16, small

82672, (36-pcs.), 160g
comprising of:

Nr.	Pcs	Name
23250	20	Lock, short
23247	10	Twin bolt
23249	3	Combi bolt
23252	3	Bolt disk

Quick connection set, AF 25, small

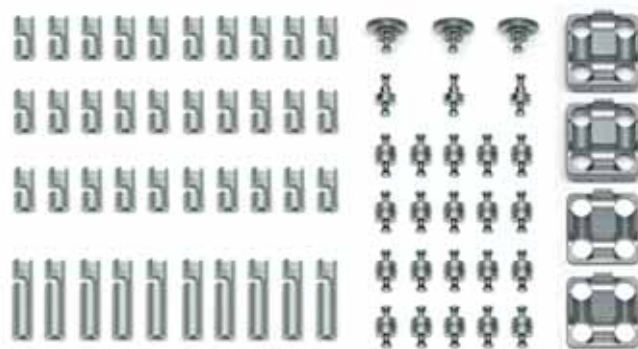
82673, (36-pcs.), 1000g
comprising of:

Nr.	Pcs	Name
23240	20	Lock, short
23223	10	Twin bolt
23225	3	Combi bolt
23239	3	Bolt disk

Quick connection set, AF 40, small

82674, (36-pcs.), 2500g
comprising of:

Nr.	Pcs	Name
23260	20	Lock, short
23257	10	Twin bolt
23259	3	Combi bolt
23264	3	Bolt disk



Quick connection set, AF 25, large

81285, (70-pcs.), 1274g
comprising of:

Nr.	Pcs	Name
23240	30	Lock, short
23246	10	Lock, long
23223	20	Twin bolt
23228	3	Bolt for bar 1D
23239	3	Bolt disk
23330	2	Coupling, double
23325	2	Coupling, single

Quick connection set, AF 40, large

81516, (70-pcs.), 5020g
comprising of:

Nr.	Pcs	Name
23260	30	Lock, short
20385	10	Lock, long
23257	20	Twin bolt
23258	3	Bolt for bar 1D
23262	3	Bolt disk
20791	2	Coupling, double
20792	2	Coupling, single

Quick connection set, AF 50, large

82801, (70-tlg.), 9600g
comprising of:

Nr.	Pcs	Name
26856	30	Lock, short
26801	10	Lock, long
26854	20	Twin bolt
28208	3	Bolt for bar 1D
26926	3	Bolt disk
26850	2	Coupling, double
26727	2	Coupling, single



ALUFIX

Tools

Alufix tool sets comprise of high quality components and are ideal for using with Alufix connecting elements.



#81492 Tools

Alufix 16 (5-pcs), comprising of:

Nr.	St.	Name
80622	1	Positioning rod
81175	1	Extended hex key WAF 3
54902	1	Pin spanner 14/17
81118	2	Key for knurled profiles 32/42



#81493 Tools

Alufix 25 (10-pcs), comprising of:

Nr.	St.	Name
80534	1	Positioning rod
80520	1	Handle 112,5
80521	2	Extension 150
10523	1	Hex insert bit WAF 3
10522	1	Hex insert bit WAF 4
10521	1	Hex insert bit WAF 5
21820	1	Pin spanner 14/17
81118	2	Key for knurled profiles 32/42



#81494 Tools

Alufix 40 (10-pcs), comprising of:

Nr.	St.	Name
80535	1	Positioning rod
80439	1	Handle 112,5
80435	1	Extension 200
80437	1	Extension 300
10484	1	Hex insert bit WAF 6
10485	1	Hex insert bit WAF 8
10486	1	Hex insert bit WAF 10
21820	1	Pin spanner 14/17
81118	2	Key for knurled profiles 32/42

#82263 Tools

Alufix 50 (10-pcs), comprising of:

Nr.	St.	Name
82551	1	Positioning rod
80439	1	Handle 112,5
80435	1	Extension 200
80437	1	Extension 300
10484	1	Hex insert bit WAF 6
10485	1	Hex insert bit WAF 8
10486	1	Hex insert bit WAF 10
27931	1	Pin spanner 17/23
81118	2	Key for knurled profiles 32/42



Torque wrench

with adjustable torque incl. hex key
and 3, 4 and 5 mm bits

Nr.	System	maximum torque
82840	AF 16	3N/m
98022	AF 25	5N/m

! In order to guarantee function of the quick connectors, recommended torque should not be exceeded.



Adjust torque
with hex key



Torque wrench

with pre-set torque

Nr.	System	maximum torque
82099	AF 40	25N/m
82789	AF 50	30N/m



! In order to guarantee function of the quick connectors, recommended torque should not be exceeded.

ALUFIX CLASSIC Starter Kits

Fast clamping with ALUFIX

STARTER KIT

A



#83131

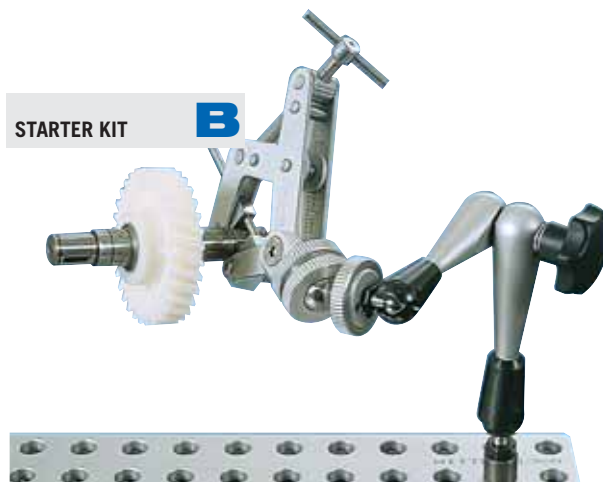
Screw clamp

with ball joint and foot plate

- max clamping width 25 mm
- extension 100 mm

STARTER KIT

B



#83132

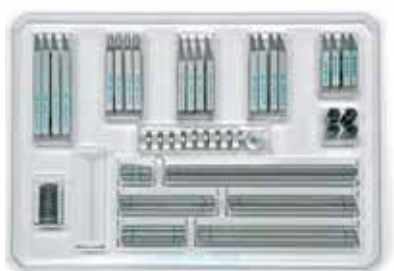
Screw clamp

with ball joint, swivel arm and screw clamp

- max clamping width 50 mm
- arm length 280 mm (2x140)
- hydraulic central clamping
- workpiece can be fixed in any position

STARTER KIT

C



◆ **#81020**

Clamping element set

M6, 69 Pcs

Comprising:

- 20 clamps in different shapes and lengths from 45 to 85mm
- 24 threaded rods M6 in 6 lengths from 25 to 150mm
- 4 coupling nuts, 10 knurled nuts and 10 washers

STARTER KIT

D



◆ **#83134**

Hold down spring

and hold down stud with M6 thread

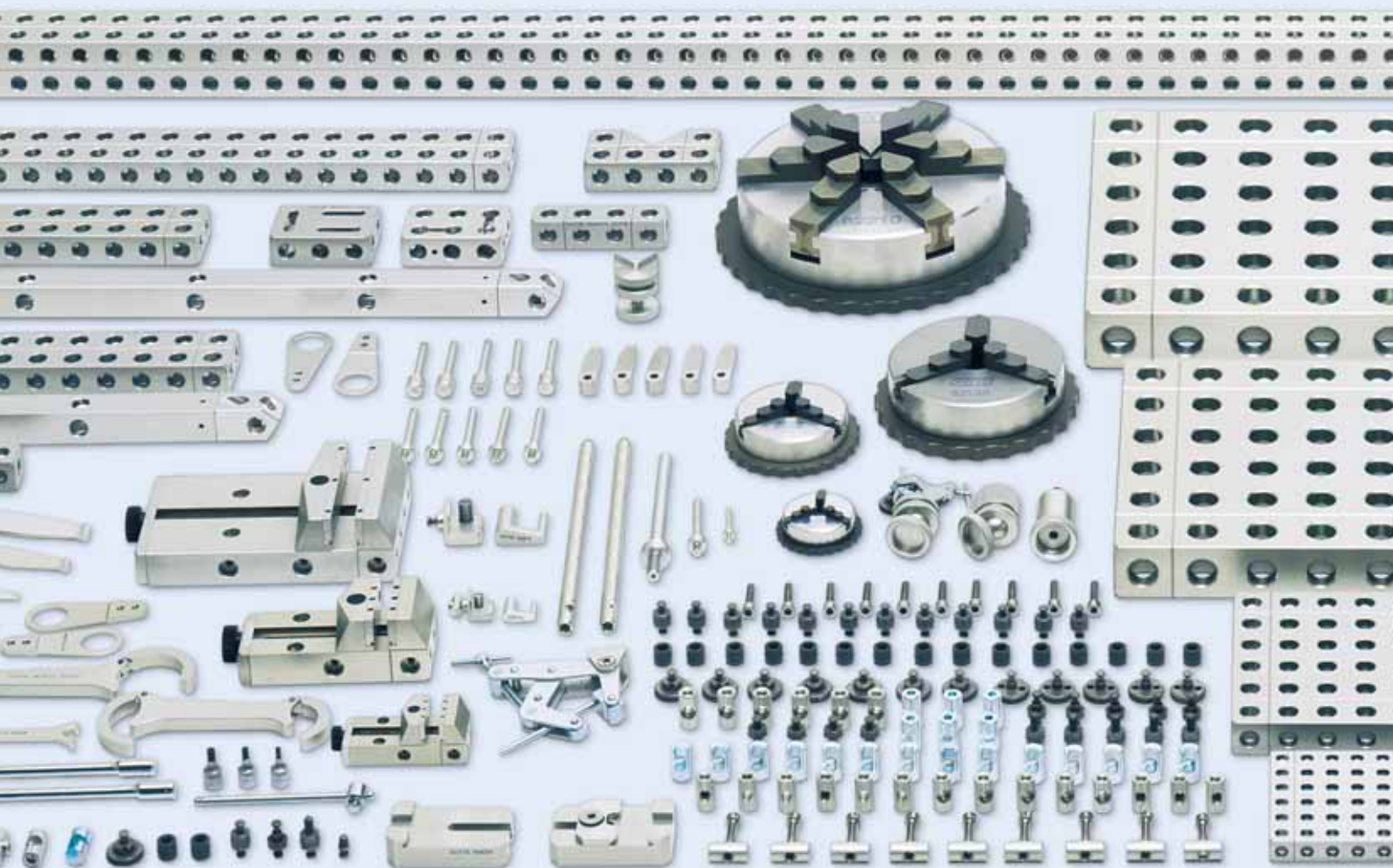
Comprising:

- Hold down spring L=60mm
- Hold down stud L=60mm (other length on request)
- One reducer sleeve each with thread M8, M10 und M12

 Workpieces and base plates shown in the pictures demonstrate application and are not included in delivery.

Preference item:
Articles with green diamond →
are available ex stock!




STARTER KIT
E

◆ #83135

Vise

with pins, jaw width 50 mm

- high tensile aluminium
- exchangeable jaws
- clamping width 65 mm


STARTER KIT
F

◆ #82080

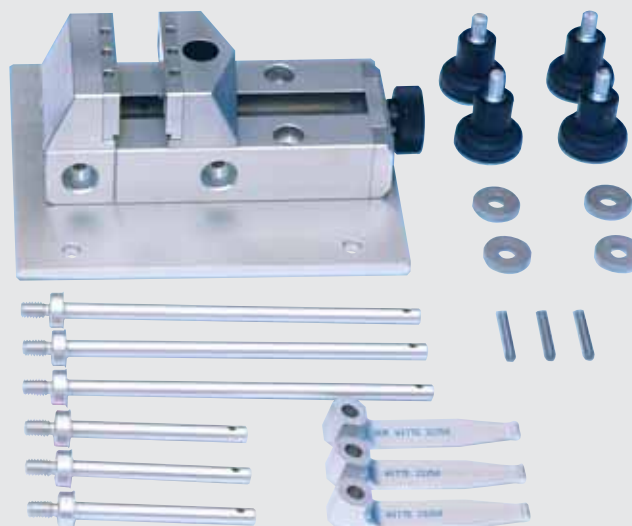
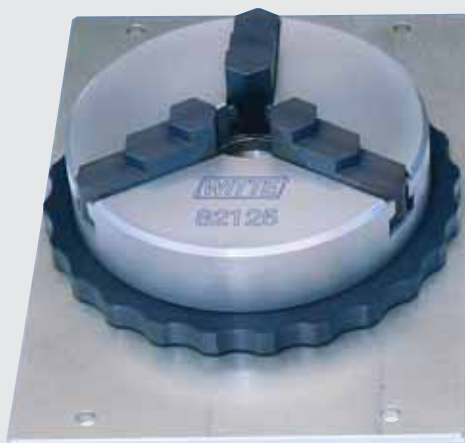
Keyless chuck

with reversible jaws, D80

- high tensile aluminium
- centric clamping
- diameter 80mm



ALUFIX CLASSIC elements can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request.



STARTER KIT



#96092 Basic Set

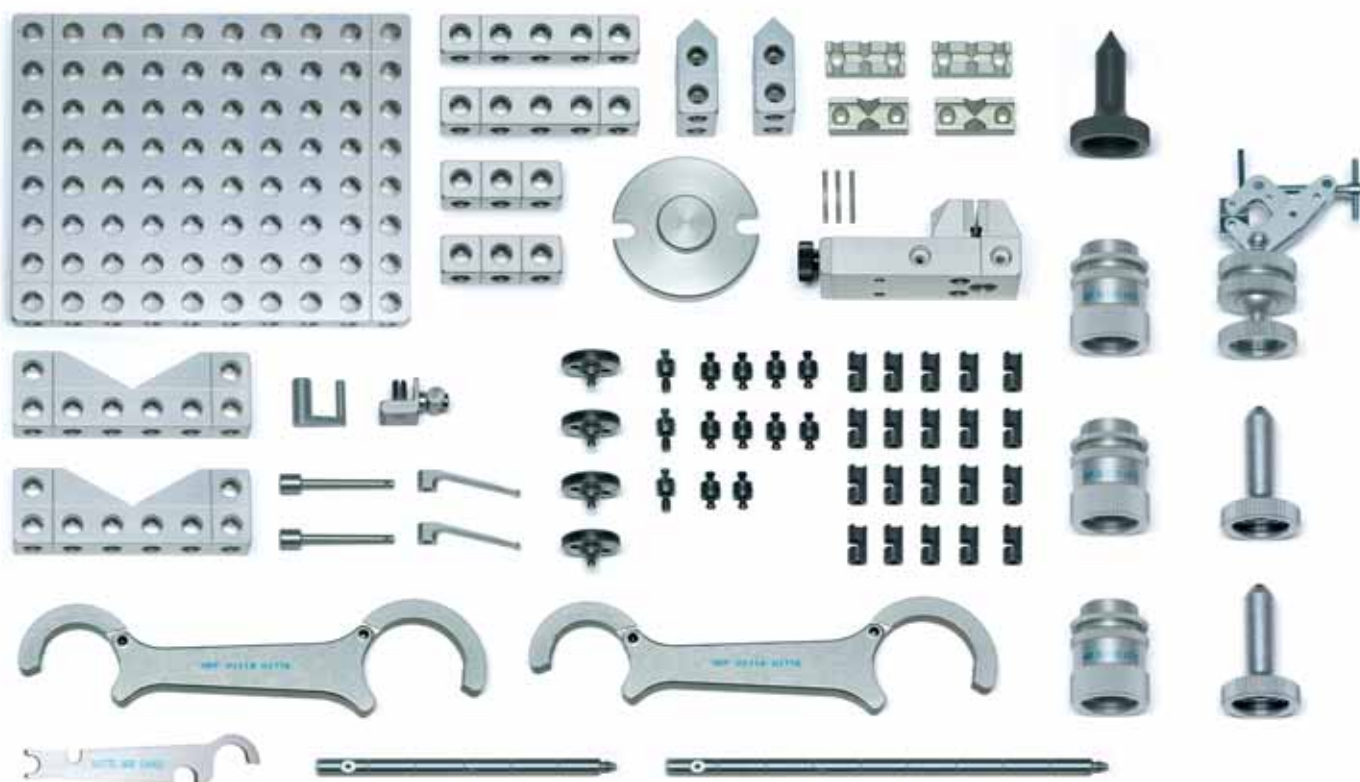
Clamp accessory kit for measuring machines
(23-pcs), 9,8 kg

Nr.	Qty.	Name
96106	1	Keyless chuck $\varnothing 125$, 3 jaws
96107	1	Vise 50 AF25
24605	3	Pin for vise AF25
22258	3	Hod down spring
54766	3	Hold down stud AF25
54767	3	Hold down stud AF25
13086	4	Screw with knurled grip
21286	4	Washer $\varnothing 6,4$
96315	1	Storage box with inlay



Keyless chuck and vise mounted on aluminium plate





#90271 Basic Set

Alufix 16, medium (75-pcs), 2,3 kg

Nr.	Qty.	Name
21573	1	Base plate 16x96x160
21586	2	Bar 16x16x80
21584	2	Bar 16x16x48
22173	2	V Block 90°
82672	1	Quick connector set (36-pcs)
81492	1	Tools (4-pcs)
82139	3	Screw-jack h38-50
23252	1	Bolt disk with stud
21670	1	Universal plate

Nr.	Qty.	Name
21646	1	Center, long
80584	2	Center with ball
21988	2	V piece 120°
80925	1	Screw clamp w ball joint
80742	1	Winder
22274	1	Deflector
20244	2	Hold down spring
20338	2	Hold down stud
81790	1	Vise set with flat and V jaws (11-pcs)



ALUFIX CLASSIC elements can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request.



ALUFIXCOLOR

All Alufix basic sets are also available anodized black for use with tactile measuring systems. Simply add -1 to the set number.

Exceptions are hard-anodized items like centres or connection elements in steel. These components retain their original colour unless specifically required and requested.



#90274 Basic Set 1

Alufix 25 (67-pcs), 4,5 kg



Nr.	Qty.	Name
21352	2	Base plate 25x150x200
21373	2	Bar 25x25x50
21374	2	Bar 25x25x75
21375	2	Bar 25x25x100
22256	2	Delta block 120° Form 3
82673	1	Quick connector set (36 pcs)
21500	1	Bolt, shortened for thread
81493	1	Tools (10 pcs)

Nr.	Qty.	Name
82139	2	Screw-jack h38-50
80925	1	Screw clamp with ball joint
80924	1	Screw clamp with joint
22258	2	Hold down spring
22260	2	Hold down stud
80743	1	Winder
22275	1	Deflector



ALUFIX CLASSIC elements can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request.

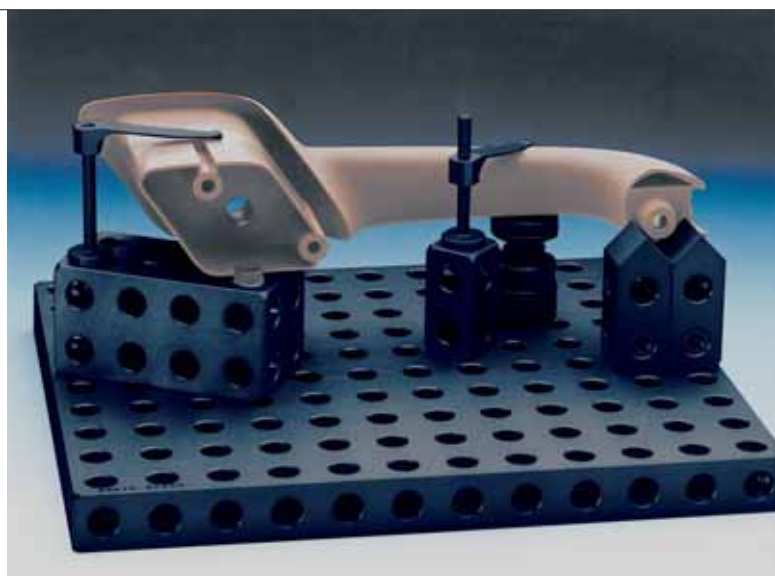
#90275 Basic Set 2

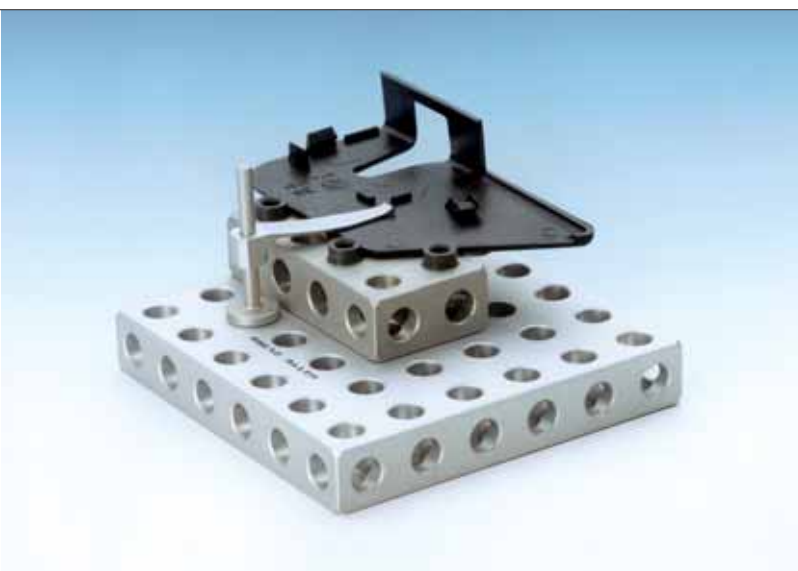
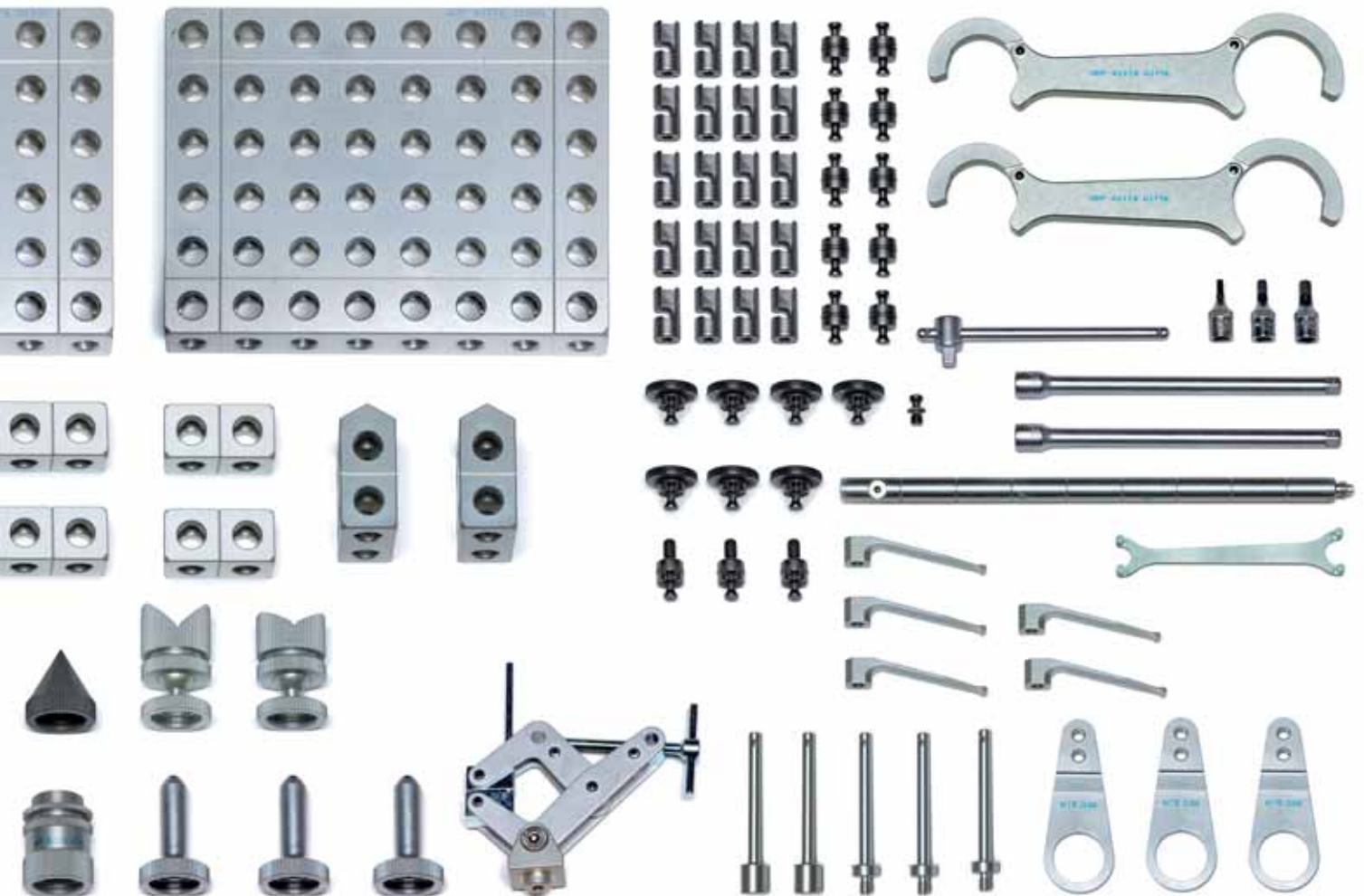
Alufix 25 (104-pcs), 5,9 kg

Nr.	Qty.	Name
21352	2	Base plate 25x150x200
21373	2	Bar 25x25x50
21374	2	Bar 25x25x75
21375	2	Bar 25x25x100
21376	2	Bar 25x25x125
22256	2	Delta block 120° Form 3
82673	1	Quick connector set (36 pcs)
21500	1	Bolt, shortened for thread
81493	1	Tools (10 pcs)
82139	4	Screw-jack h38-50
23239	4	Bolt disk with stud
80924	1	Screw clamp with joint
21644	2	Center
21646	2	Center
80584	3	Center with ball
80733	1	V piece 120° with ball joint
80725	1	V piece 90° with ball joint
80925	1	Screw clamp with ball joint
81791	1	Vise Set 50mm (11 pcs)
22258	5	Hold down spring
22260	2	Hold down stud
22263	3	Hold down stud
22268	3	Traverse holder with heel
80743	1	Winder
22275	1	Deflector



Handle set up using
standard Alufix Classic
elements, anodized black





Workpiece set up on
screw-jacks and secured
with hold down springs

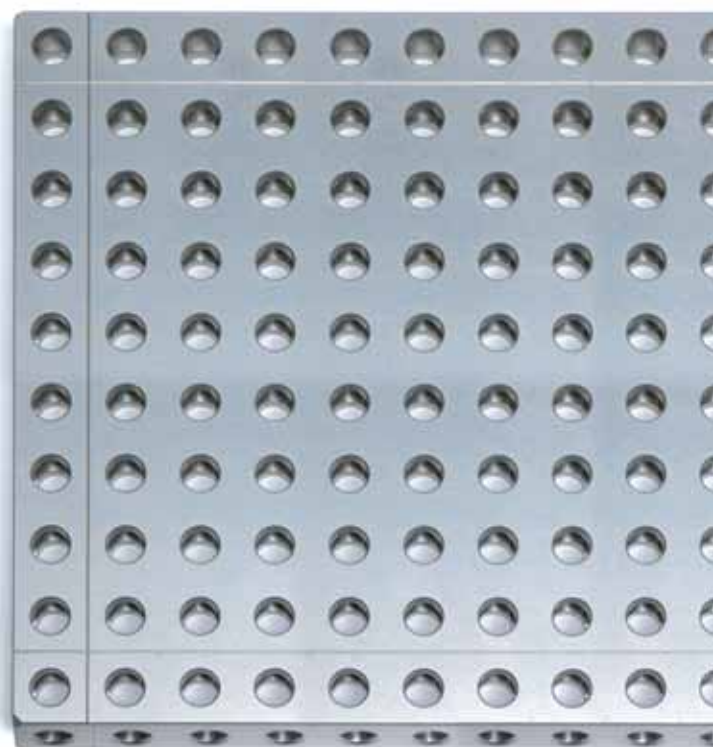


ALUFIX CLASSIC elements can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request.

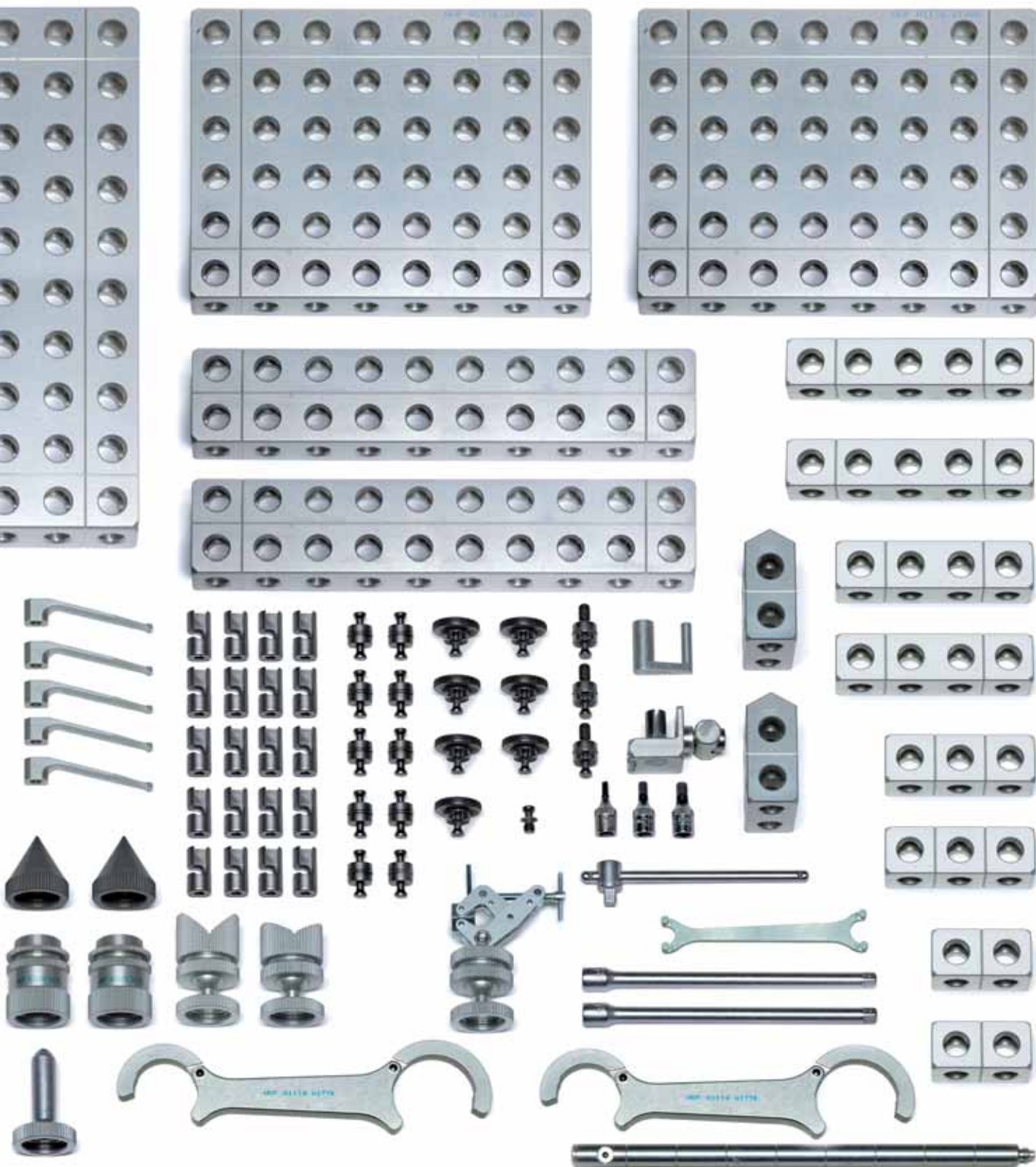
#90276 Basic Set 3

Alufix 25 (106-pcs), 12,6 kg

Nr.	Qty.	Name
21360	1	Base plate 25x250x300
22885	2	Base plate 25x50x250
21352	2	Base plate 25x150x200
21373	2	Bar 25x25x50
21374	2	Bar 25x25x75
21375	2	Bar 25x25x100
21376	2	Bar 25x25x125
22256	2	Delta block 120° Form 3
82673	1	Quick connector set (36 pcs)
21500	1	Bolt, shortened for thread
81493	1	Tools (10 pcs)
82139	4	Screw-jack h38-50
23239	1	Bolt disk
80925	2	Screw clamp with ball joint
21644	2	Center, short
21646	2	Center, long
80733	1	V piece 120° with ball joint
80725	1	V piece 90° with ball joint
81791	1	Vise Set 50mm (11 pcs)
22258	5	Hold down spring
22260	2	Hold down stud
22263	3	Hold down stud
22268	3	Traverse holder with heel
80743	1	Winder
22275	1	Deflector
80924	1	Screw clamp with joint
80584	3	Center with Ball D6/M24
12584	1	Storage case



 Aluminium case #12584, without inlays, version may be different to case shown, included in supply free of charge

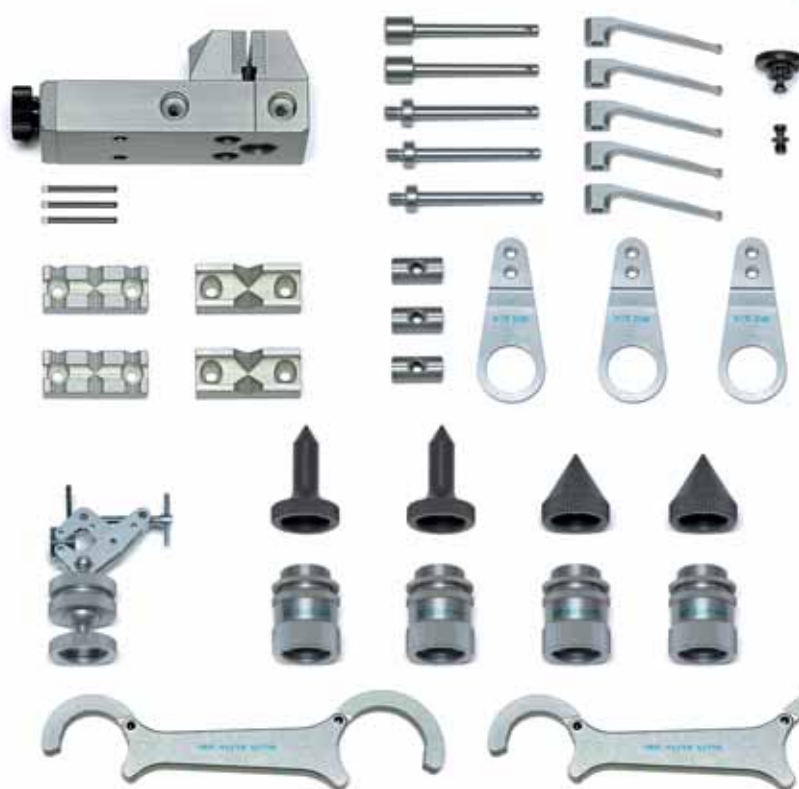
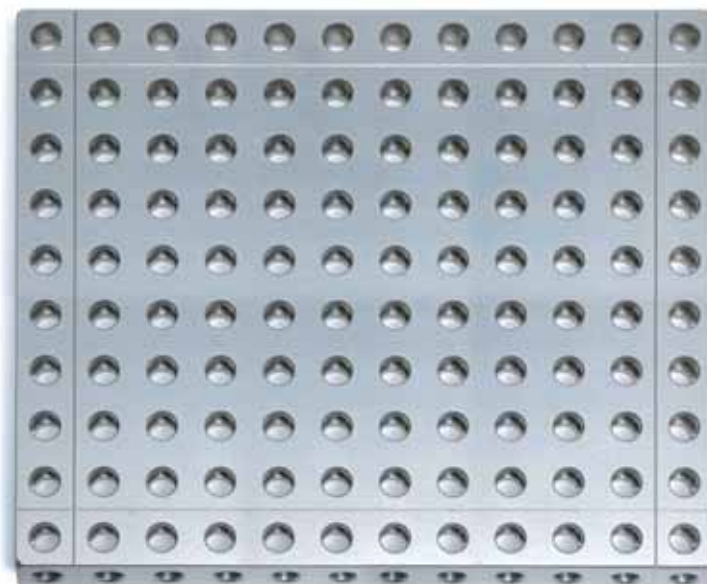


ALUFIX CLASSIC elements can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request.

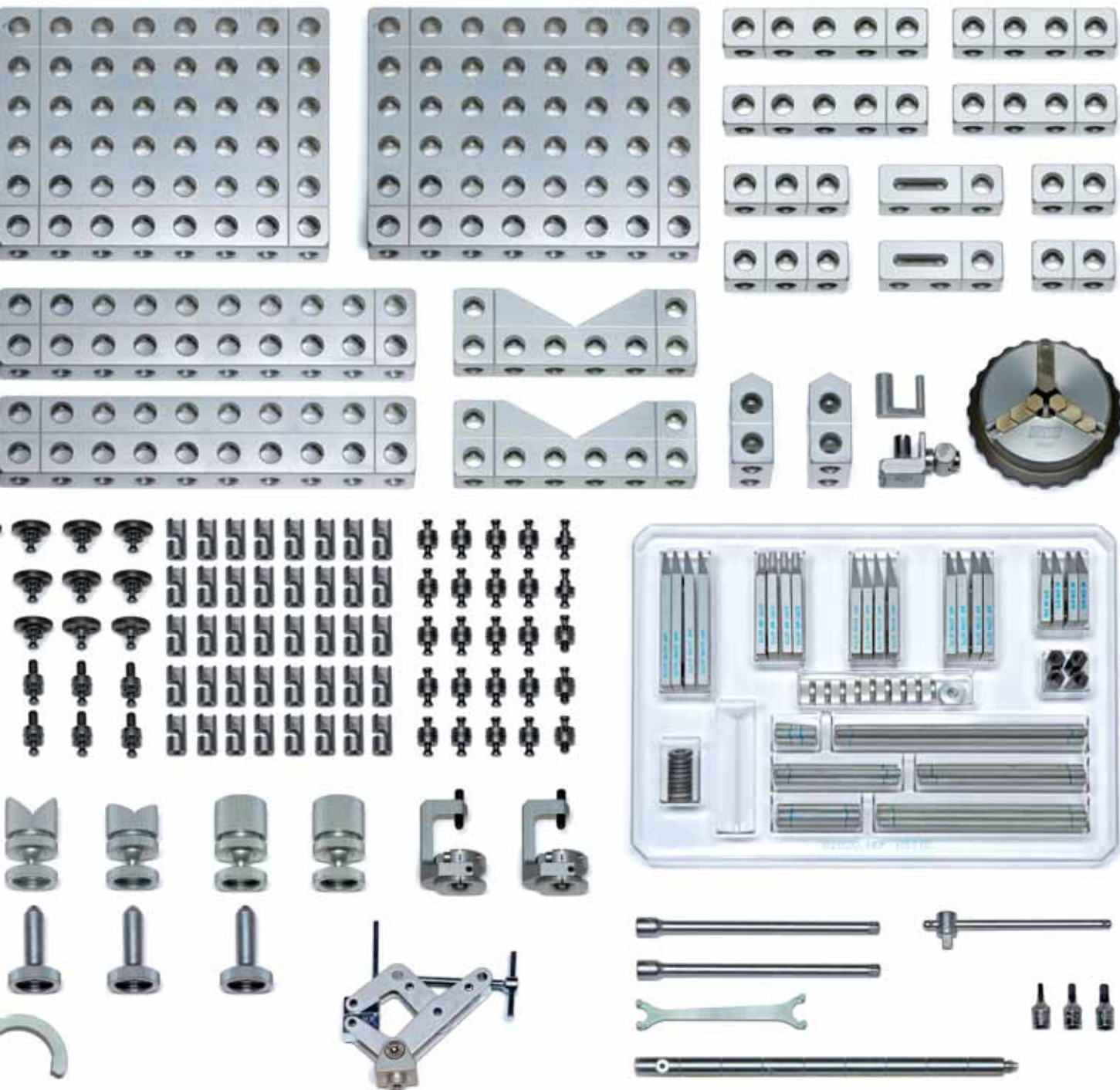
#90277 Basic Set 4

Alufix 25 (229-pcs), 15,5kg

Nr.	Qty.	Name
21360	1	Base plate 25x250x300
21352	2	Base plate 25x150x200
22885	2	Base plate 25x50x250
21376	2	Bar 25x25x125
21375	2	Bar 25x25x100
21374	2	Bar 25x25x75
21373	2	Bar 25x25x50
23233	2	Bar 1D
21987	2	V block 120°
22256	2	Delta block 120° Form 3
82673	2	Quick connector set (36-pcs)
21500	1	Bolt, shortened for thread
25654	3	Bolt f. grid plate + keyless chuck
23228	2	Twin bolt for bar 1D/2D
23241	2	Bolt disk
80531	3	Crosspiece nut
81493	1	Tools (10-pcs)
82139	4	Screw-jack h38-50
23239	1	Bolt disk
21644	2	Center, short
21646	2	Center, long
80584	3	Center with ball
80941	2	Magnetic holder with ball joint
80733	1	V piece 120° with ball joint
80725	1	V piece 90° with ball joint
81111	2	C clamp adjustable
80925	1	Screw clamp with ball joint
81791	1	Vise Set 50mm (11-pcs)
82080	1	3 jaw keyless chuck compl. ø80
22258	5	Hold down spring
22260	2	Hold down stud
22263	3	Hold down stud
22268	3	Traverse holder with heel
80743	1	Winder
22275	1	Deflector
80924	1	Screw clamp with joint
81020	1	Clamp Set 9 M6S (69-pcs)
12584	1	Storage case



Aluminium case #12584,
without inlays, version may be different
to case shown, included in supply free of charge



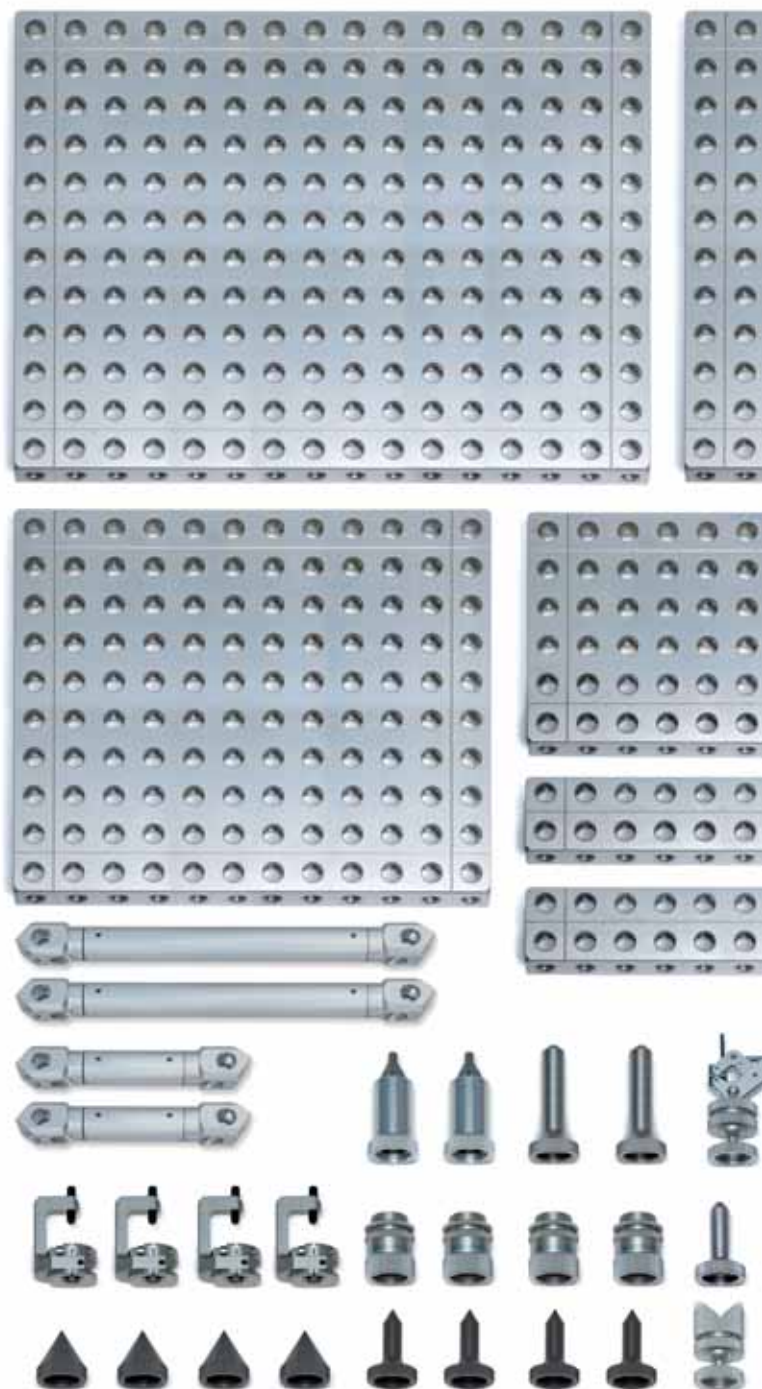
ALUFIX CLASSIC elements can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request.



#90278 Basic Set 5

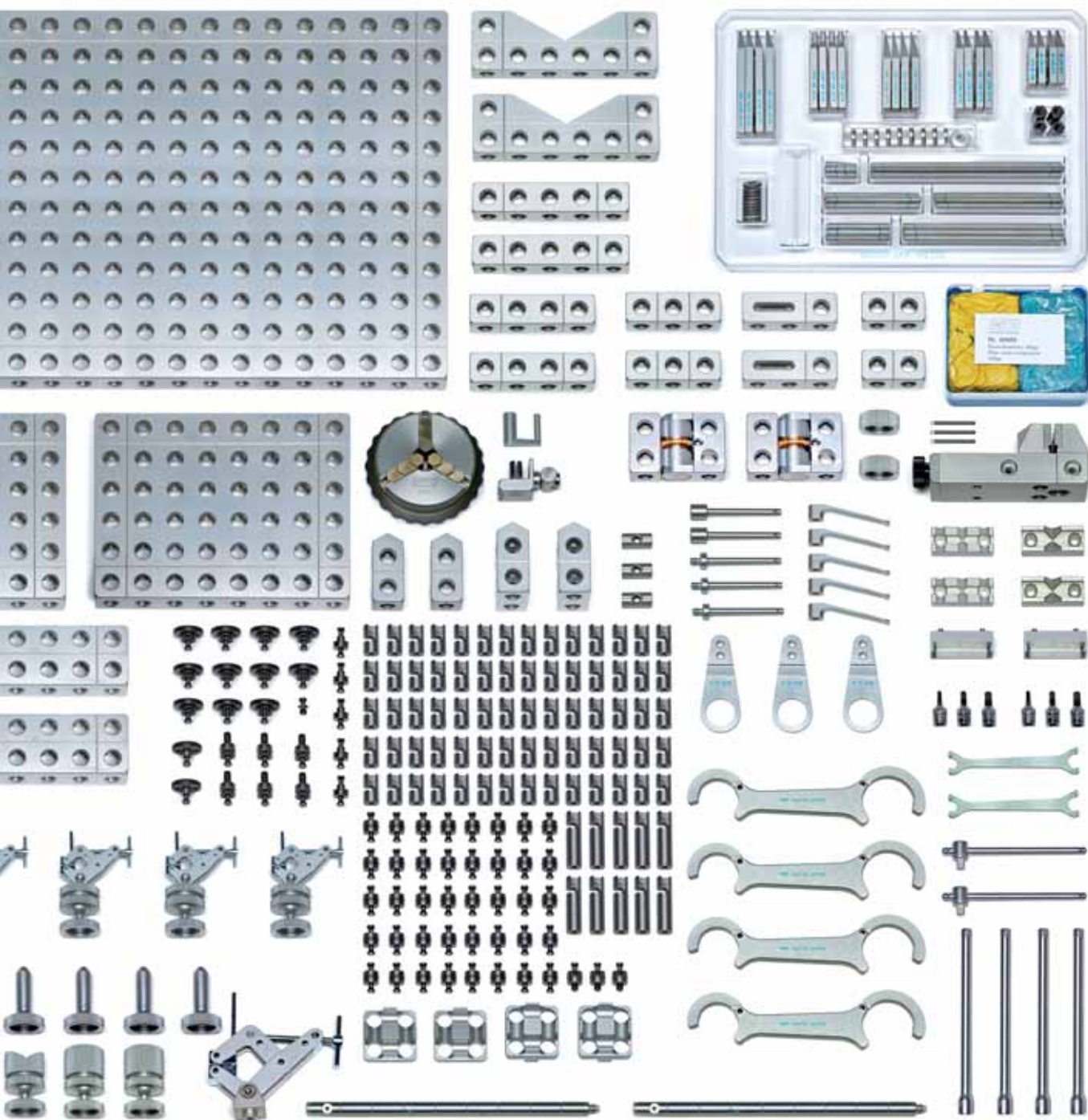
Alufix 25 (345-pcs), 49,8 kg

Nr.	Qty.	Name
21361	2	Base plate 25x300x400
21360	1	Base plate 25x250x300
21352	2	Base plate 25x150x200
22885	2	Base plate 25x50x250
21376	2	Bar 25x25x125
21375	2	Bar 25x25x100
21374	2	Bar 25x25x75
21373	2	Bar 25x25x50
81443	2	Strut 25x25x125
81444	2	Strut 25x25x250
23233	2	Bar 1D
81028	2	Double knuckle
21987	2	V block 120°
22256	2	Delta block 120° Form 3
22253	2	Delta block 120° Form 2
81285	1	Quick connector set (70-pcs)
82673	2	Quick connector set (36-pcs)
80531	3	Crosspiece nut
23228	2	Bolt for bar 1D/2D
25654	3	Bolt f. grid plate + keyless chuck
21500	1	Bolt, shortened for thread
81493	2	Tools (10-pcs)
82139	4	Screw-jack h38-50
23239	1	Bolt disk
23241	2	Bolt disk
21644	4	Center, short
21646	4	Center, long
80584	5	Center with ball
80733	1	V piece 120° with ball joint
80725	1	V piece 90° with ball joint
80661	2	True line stud
80941	2	Magnetic holder with ball joint
81212	2	Autocenter
81111	4	C clamp adjustable
80925	4	Screw clamp with ball joint
22005	2	Moulding cap
81791	1	Vise Set 50mm (11 pcs)
80685	1	Compound resin 400g
81832	2	Forming jaw with bushes (3 pcs)
82080	1	3 jaw keyless chuck compl. ø80
22258	5	Hold down spring
22260	2	Hold down stud



Nr.	Qty.	Name
22263	3	Hold down stud
22268	3	Traverse holder for stud
80743	1	Winder
22275	1	Deflector





Nr.	Qty.	Name
80924	1	Screw clamp with joint
80604	2	Base for screw clamp
81020	1	Clamp Set 9 M6S (69 pcs)
12584	1	Storage case



ALUFIX CLASSIC elements can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request.



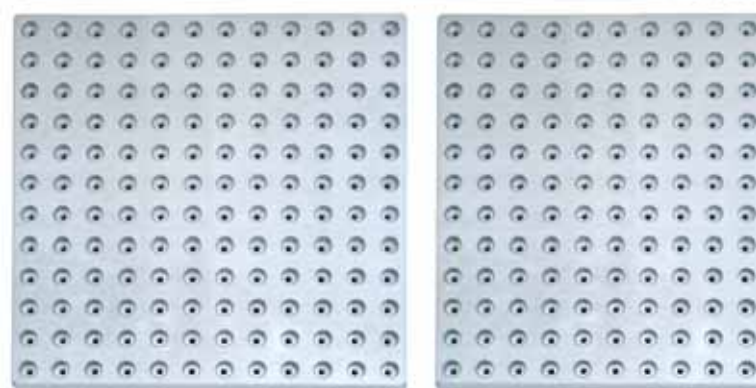
Aluminium case #12584, without inlays, version may be different to case shown, included in supply free of charge



#98156 Basic Set 6

Alufix 25 (332-pcs), 49,8 kg

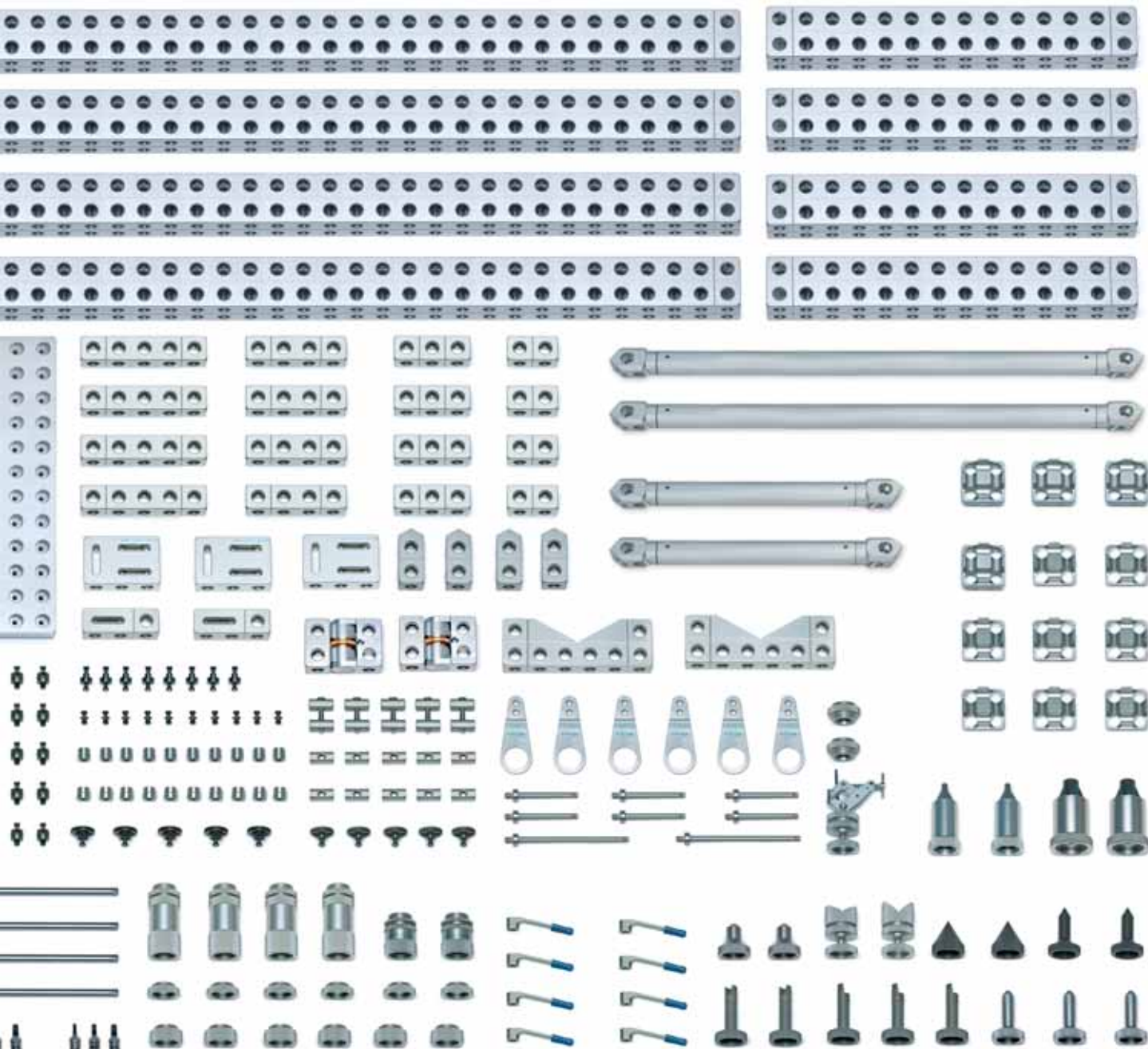
Nr.	Qty.	Name
33502	1	Base plate 25x300x500 AF25
56492	2	Base plate 25x300x300 AF25
21373	4	Bar 25x25x50 AF25
21374	4	Bar 25x25x75 AF25
21375	4	Bar 25x25x100 AF25
21376	4	Bar 25x25x125 AF25
21824	4	Bar 50x50x750 Light AF25
24246	4	Bar 50x50x350 Light AF25
23325	8	Coupling 50x50 single AF25
23330	4	Coupling 50x50 double AF25
23233	2	Bar 25x25x75 1D AF25
23232	3	Base plate 2D 25x50x75 AF25
81028	2	Double knuckle AF25
82437	3	Cross guiding slide, AF25 with stop
81444	2	Strut 250 AF25
81327	2	Strut 500 AF25
21987	2	V-Block 120° 25x50x150 AF25
22253	4	Deltablock 120° Form2 AF25
23240	60	Lock SW5 AF25
23223	30	Twin bolt AF25
25743	30	Combi bolt shortened AF25
21500	10	Bolt shortened AF25
23228	8	Twin bolt AF25 for Bar 1D/2D
21386	10	Positioning sleeve ø12,5
81493	2	Tool AF25 (10pcs)
21385	10	Positioning sleeve ø12,5 AF25
23241	5	Bolt disk ø6,7/M24 AF25
80701	10	Connector Set M6/25 AF25
82139	2	Screw-jack h=38/50 M24x1
82033	4	Screw-jack h=70/105 M24x1
20628	6	Screw-jack extension 6/M24x1
23286	6	Screw-jack extension 12/M24x1
23239	5	Bolt Disk with stud ø12,5/M24
21644	2	Center ø32/M24
21646	2	Center, ø12,5/M24 50 long
94543	2	Autocenter, star shaped, M24x1
95532	2	Autocenter, star shaped, M24x1
81112	3	Stop and support 180° AF25
81113	2	Stop and support 90° AF25
80531	10	Nut M6/25 AF25
80585	3	Center w. ball ø8/M24



Nr.	Qty.	Name
80733	2	V Block 120° with ball joint
80590	2	True line stud ø15/M24/32,6
22647	2	Crossover male/male M24x1
93443	8	Hold down spring f.sens. surfaces
22263	6	Hold down stud M6 AF25



ALUFIX CLASSIC elements can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request.



Nr.	Qty.	Name
24885	2	Hold down stud M6 AF25 I125
22268	6	Traverse holder with heel 6/60
80743	1	Winder AF25
22275	1	Deflector AF25
80924	1	Screw clamp with ball joint

Supply includes
3 cross guiding slides with slide stop #82437 (not shown)



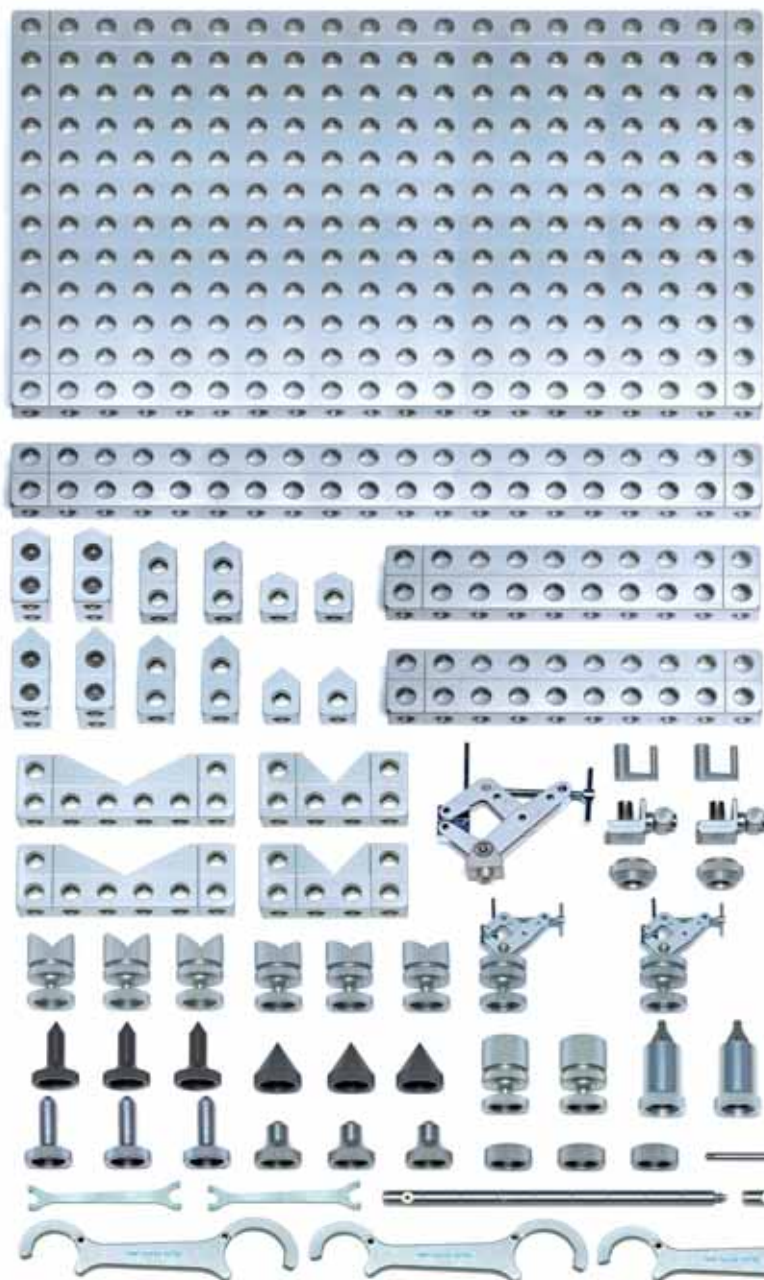
Recommendation:
For storage of elements workstation #282562 is available, page 151



#82689 Basic Set 7

Alufix 25 (419-pcs), 54 kg

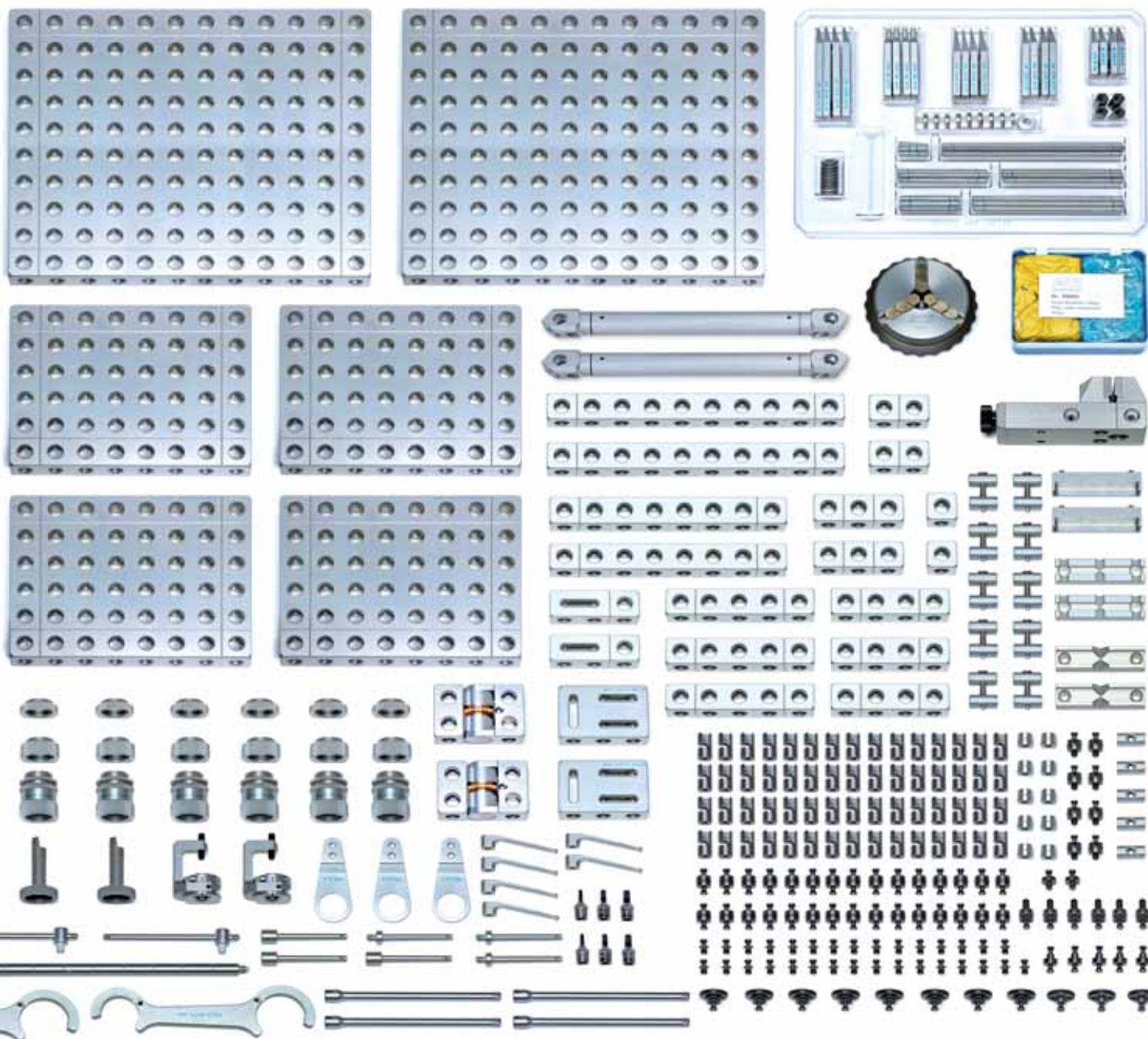
Nr.	Qty.	Name
22885	2	Base plate 25x50x250
21707	1	Base plate 25x50x500
21360	2	Base plate 25x250x300
21352	4	Base plate 25x150x200
21362	1	Base plate 25x300x500
21372	2	Bar 25x25x25
21373	2	Bar 25x25x50
21374	2	Bar 25x25x75
21375	3	Bar 25x25x100
21376	3	Bar 25x25x125
22963	2	Bar 25x25x200
22882	2	Bar 25x25x250
23233	2	Bar 1D
23232	2	Base plate 2D
81028	2	Double knuckle
82172	2	Roller slide
82462	2	Cross roller slide
81444	2	Strut 25x25x250
21992	2	V block 90°
21987	2	V block 120°
22235	2	Delta block 90° Form 1
22177	2	Delta block 90° Form 2
22174	2	Delta block 90° Form 3
22241	2	Delta block 120° Form 1
22253	2	Delta block 120° Form 2
22256	2	Delta block 120° Form 3
23240	60	Lock
23223	30	Twin bolt
21500	31	Bolt, shortened for thread
25654	2	Twin bolt for grid base plate
23225	6	Combi bolt
23228	5	Twin bolt for bar 1D
25743	8	Combi bolt shortened
81493	2	Tools (10 pcs)
21385	10	Positioning sleeves
21869	6	Reducer bush
21714	5	Crosspiece nut
80701	10	Connecting set
82139	6	Screw-jack h38-50
20628	6	Screw-jack extension 6mm
23286	6	Screw-jack extension 12mm
23239	8	Bolt disk



Nr.	Qty.	Name
23241	3	Bolt disk
21644	3	Center, short
21646	3	Center, long
80584	3	Center with ball
80733	3	V piece 120° with ball joint
80725	3	V block 90° with ball joint
80590	3	True line stud
80941	2	Magnetic holder with ball joint
81212	2	Autocenter
81112	2	Stop and support 180°



ALUFIX CLASSIC elements can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request.



Nr.	Qty.	Name
81111	2	C clamp adjustable
22644	3	Spacer
80925	2	Screw clamp with ball joint
22647	2	Cross over male/male
81792	1	Vise Set 75mm (11 pcs)
81833	2	Forming jaw with bushes (3 pcs)
80685	1	Compound resin 400g
82080	1	3 jaw keyless chuck compl. ø80
22258	6	Hold down spring
22260	3	Hold down stud

Nr.	Qty.	Name
22263	3	Hold down stud
81020	1	Clamp set 9 M6S (69 Pcs.)
80924	1	Screw clamp 50 with joint
22268	3	Traverse holder with M6 heel
80743	2	Winder AF25
22275	2	Deflector AF25

Supply includes:
 2 cross roller slides #82462
 2 roller slides #82172
 (not shown)



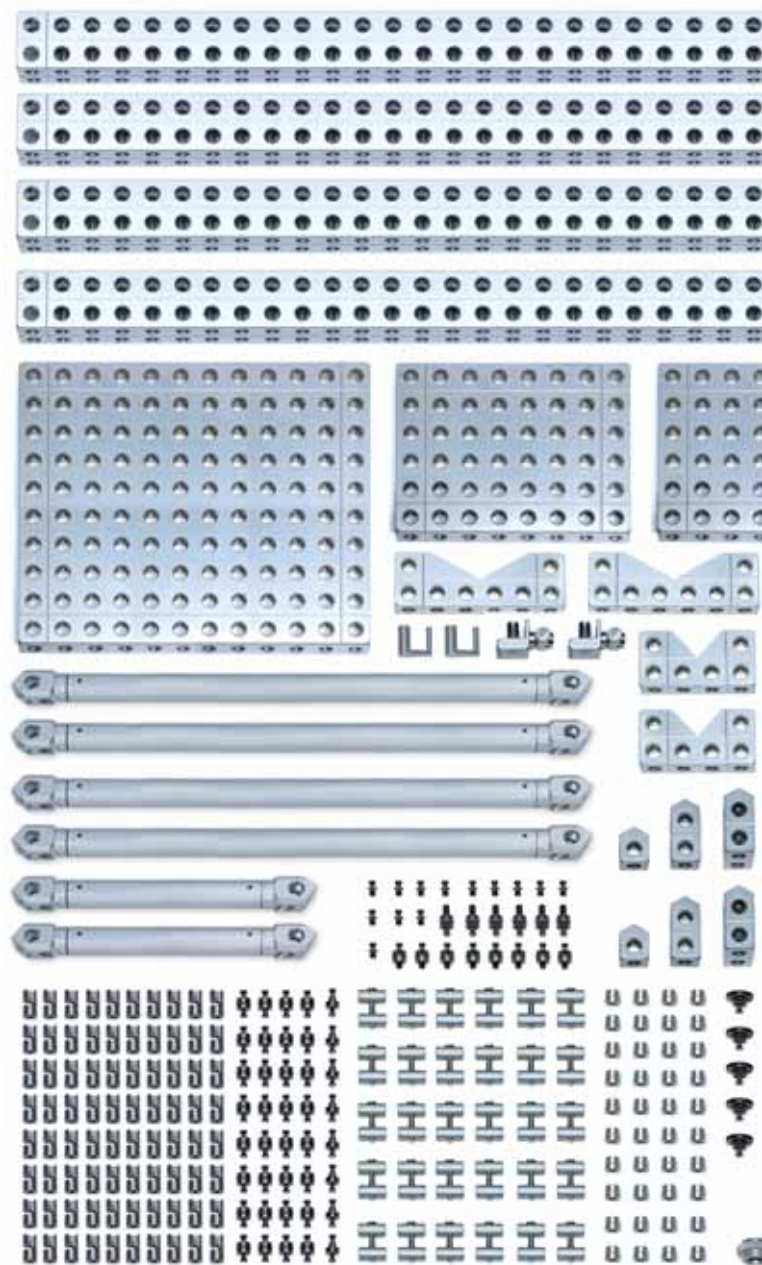
Recommendation:
 For storage of elements workstation
 #282562 is available, page 151



#90281 Basic Set 9

Alufix 25 (434-pcs), 51kg

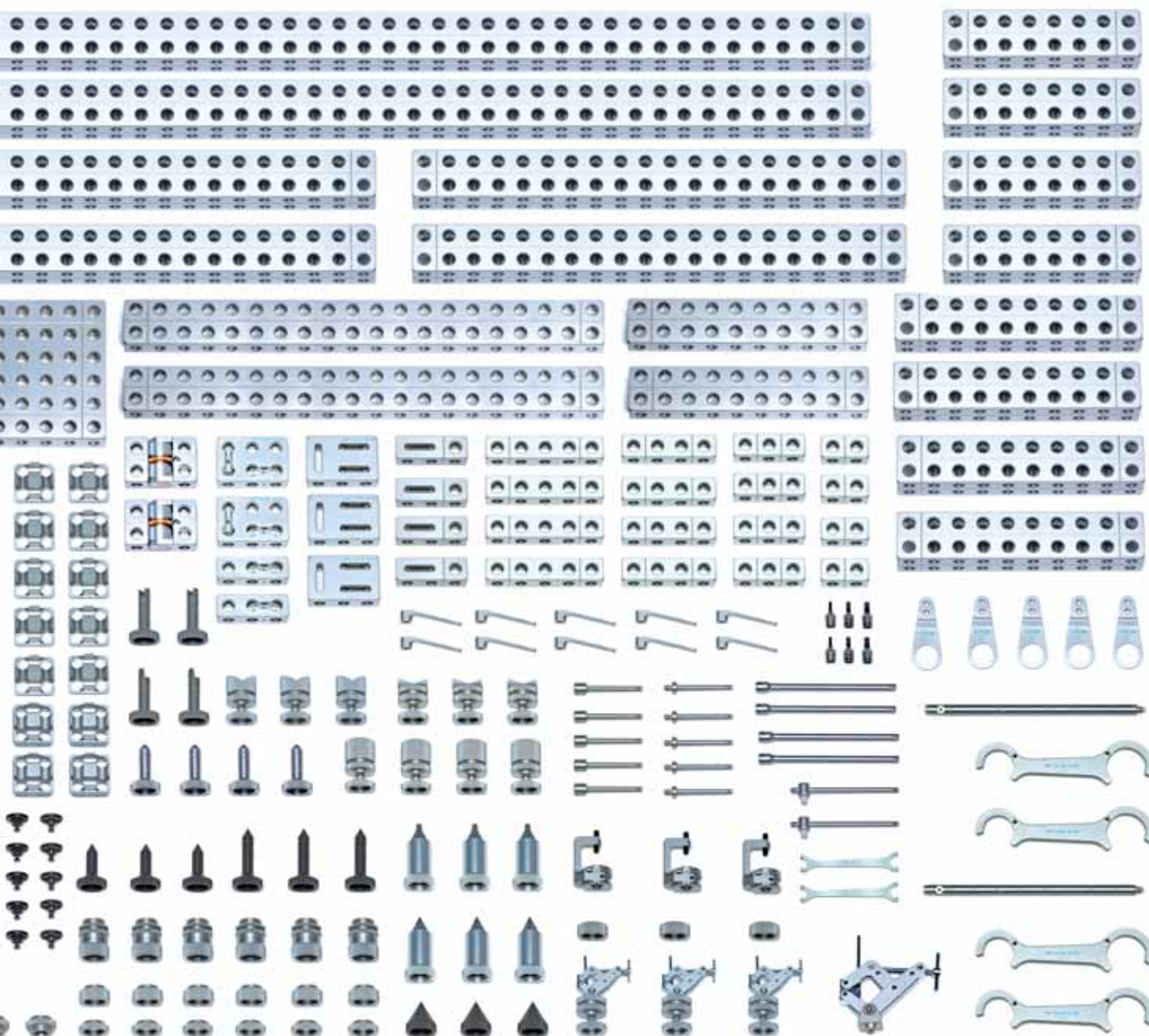
Nr.	Qty.	Name
21360	1	Base plate 25x250x300
21352	2	Base plate 25x150x200
22885	2	Base plate 25x50x250
21707	2	Base plate 25x50x500
21373	4	Bar 25x25x50
21374	4	Bar 25x25x75
21375	4	Bar 25x25x100
21376	4	Bar 25x25x125
22949	4	Bar Light 50x50x250
22950	4	Bar Light 50x50x500
22951	2	Bar Light 50x50x1000
22952	2	Bar Light 50x50x1500
23325	10	Coupling, single
23330	4	Coupling, double
23233	4	Bar 1D
81021	2	Bar with 1 offset unit
23232	3	Base plate 2D
81023	2	Base plate with 2 offset units
81028	2	Double knuckle
82172	2	Roller slide
82462	2	Cross roller slide
81444	2	Strut 25x25x250
81327	4	Strut 25x25x500
21992	2	V Block 90°
21987	2	Block 120°
22241	2	Delta block 120° Form 1
22253	2	Delta block 120° Form 2
22256	2	Delta block 120° Form 3
23240	80	Lock
23225	6	Kombi bolt M6
23228	10	Twin bolt for bar 1D
23223	40	Twin bolt
21500	10	Bolt, shortened for thread
25743	8	Combi bolt shortened
81493	2	Tools (10-pcs)
21385	40	Positioning sleeves
80701	30	Connection element M6
82139	6	Screw-jack h38-50
20628	6	Screw-jack extension 6mm
23286	6	Screw-jack extension 12mm
23239	10	Bolt disk
23241	5	Bolt disk



Nr.	Qty.	Name
21644	3	Center, short
21646	3	Center, long 50
21648	2	Center, long 70
80584	4	Center with ball
80733	3	V Block 120° with ball joint
80927	3	Knife V 120° with ball joint
80941	4	Magnetic holder with ball joint
81212	3	Autocenter
82252	3	Autocenter
81112	2	Stop and support 180°



ALUFIX CLASSIC elements can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request.



Nr.	Qty.	Name
81113	2	Stop and support 90°
81111	3	C clamp adjustable
80925	3	Screw clamp with ball joint
22644	3	Spacer
22647	2	Cross over male/male
22258	10	Hold down spring
22260	5	Hold down stud
22263	5	Hold down stud
22268	5	Traverse holder for stud
80743	2	Winder

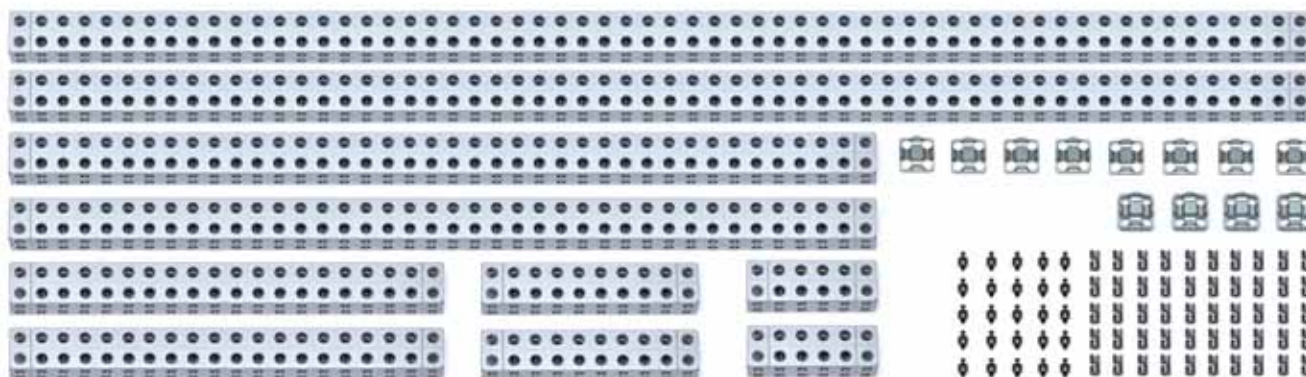
Nr.	Qty.	Name
22275	2	Deflector
80924	1	Screw clamp with joint
80604	2	Base for toggle clamp

Supply includes:
 2 cross roller slides #82462
 2 roller slides #82172
 (not shown)



Recommendation:
 For storage of elements workstation #282727 is available, page 151

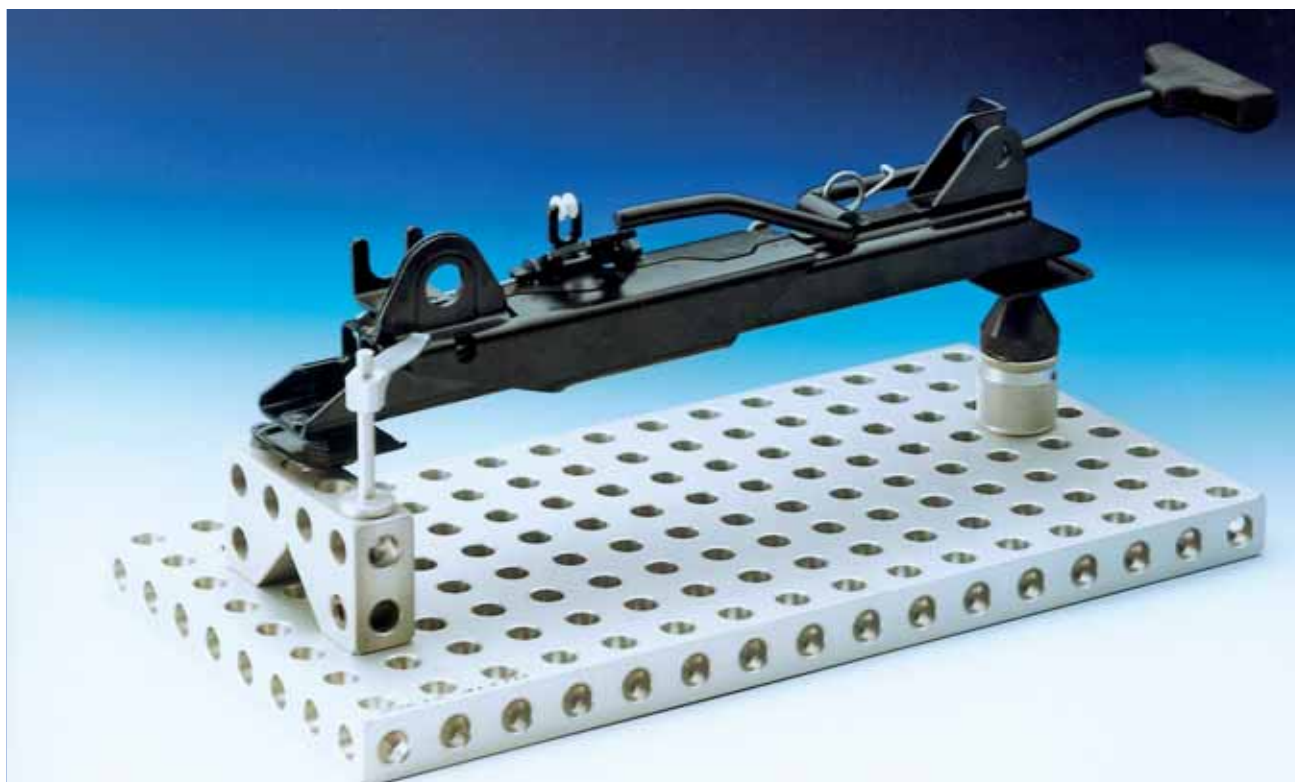


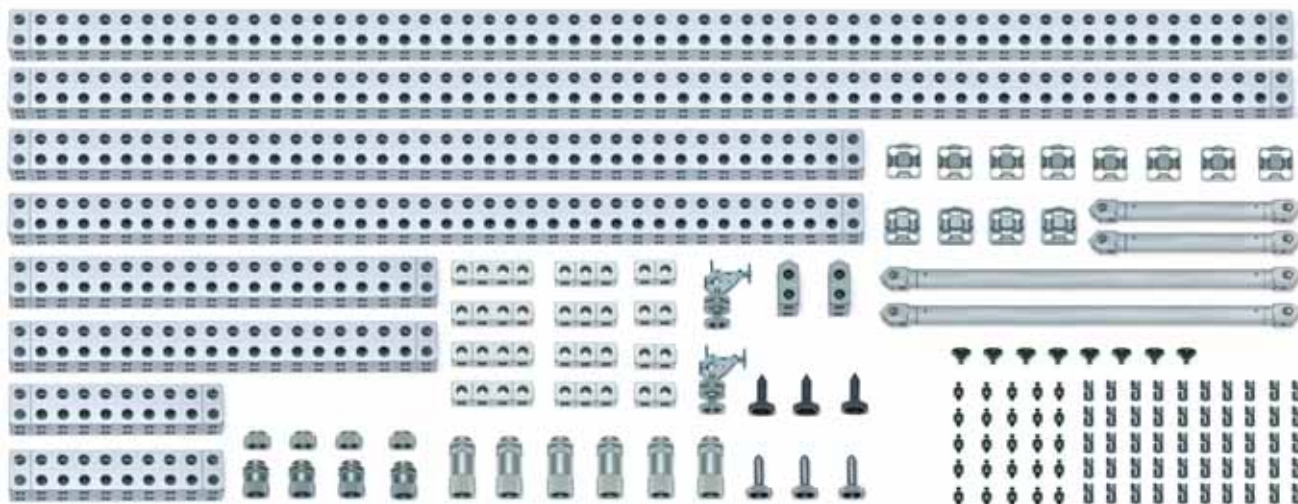


#90283 Extension Set 1

Alufix 25 Light (97-pcs), 17 kg

Nr.	Qty.	Name
20426	2	Bar Light 50x50x150
22949	2	Bar Light 50x50x250
22950	2	Bar Light 50x50x500
22951	2	Bar Light 50x50x1000
22952	2	Bar Light 50x50x1500
23330	4	Coupling, double
23325	8	Coupling, single
23240	50	Lock
23223	25	Twin bolt

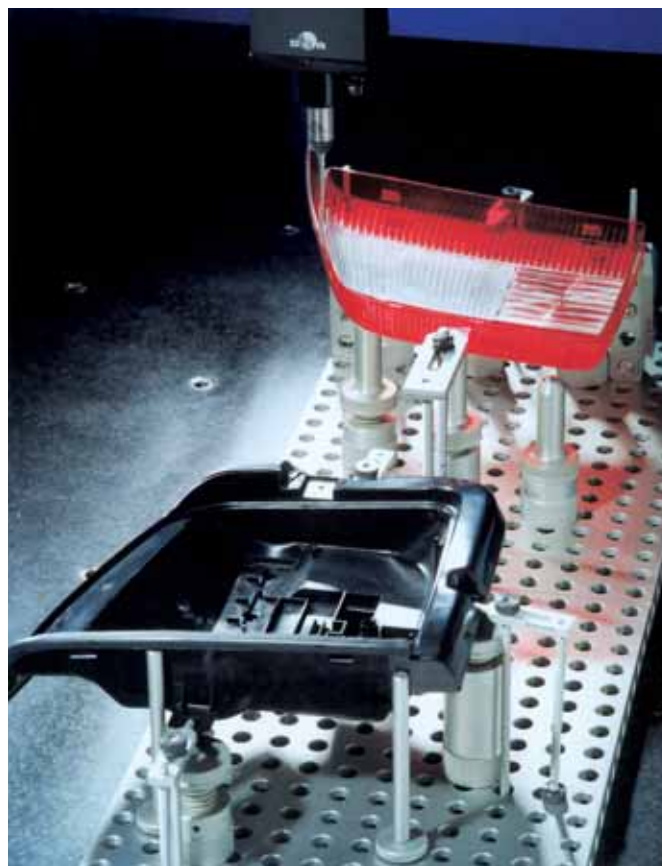




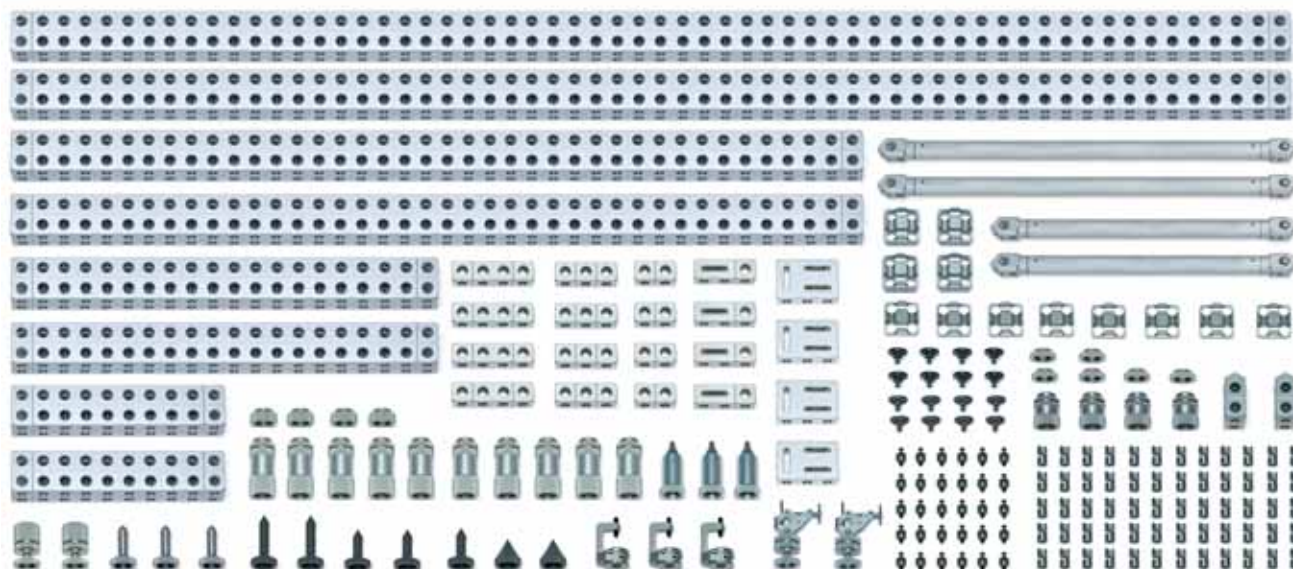
#90284 Extension Set 2

Alufix 25 Light (143-pcs), 21 kg

Nr.	Qty.	Name
21373	4	Bar 25x25x50
21374	4	Bar 25x25x75
21375	4	Bar 25x25x100
22949	2	Bar Light 50x50x250
22950	2	Bar Light 50x50x500
22951	2	Bar Light 50x50x1000
22952	2	Bar Light 50x50x1500
23330	4	Coupling, double
23325	8	Coupling, single
81444	2	Strut 25x25x250
81327	2	Strut 25x25x500
22256	2	Delta block 120° Form 3
23240	50	Lock
23223	25	Twin bolt
82139	4	Screw-jack h38-50
82033	6	Screw-jack h70-105
23286	4	Screw-jack extension 12mm
23239	8	Bolt disk
21646	3	Center
80584	3	Center with ball
80925	2	Screw clamp with ball joint



ALUFIX CLASSIC elements can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request.

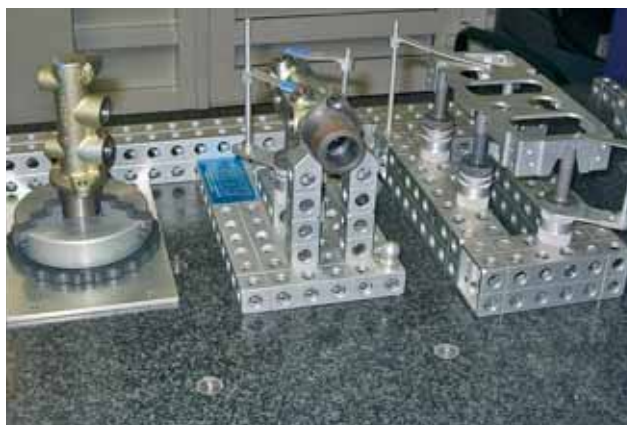


#90285 Extension Set 3

Alufix 25 Light (209-pcs), 24,5 kg

Nr.	Qty.	Name
21373	4	Bar 25x25x50
21374	4	Bar 25x25x75
21375	4	Bar 25x25x100
22949	2	Bar Light 50x50x250
22950	2	Bar Light 50x50x500
22951	2	Bar Light 50x50x1000
22952	2	Bar Light 50x50x1500
23330	4	Coupling, double
23325	8	Coupling, single
23233	4	Bar 1D
23232	4	Base plate 2D
81028	2	Double knuckle
81445	2	Strut 25x25x375
81329	2	Strut 25x25x750
22256	2	Delta block 120° Form 3
23240	60	Lock
23223	30	Twin bolt
23228	10	Twin bolt for bar 1D
82139	4	Screw-jack h38-50
82033	10	Screw-jack h70-105
20628	6	Screw-jack extension 6mm
23286	4	Screw-jack extension 12mm
23239	8	Bolt disk
23241	8	Bolt disk

Nr.	Qty.	Name
21644	2	Center, short
21646	3	Center, long 50
21648	2	Center, long 70
80584	3	Center with ball
80941	4	Magnetic holder with ball joint
82252	2	Autocenter
81111	3	C clamp adjustable
80925	2	Screw clamp with ball joint



Workstation, metal, lockable

#282562, suitable for Basic Sets 6 and 7

H x W x D: 780 x 570 x 960
Weight unloaded approx. 85kg

Storage of Alufix components in 6 clearly laid out, spacious and fully extendable drawers, also suitable for Alufix 40 Bars 80x80.

Two top drawers are equipped with inlays for small components. Lower drawers equipped with non-slip mats.

Load capacity per drawer 75 kg



Mobile measuring units see page 182

Workstation, metal, lockable

#282727, suitable for Basic Sets 9 and extension sets

H x W x D: 780 x 570 x 1030
Weight unloaded approx. 88kg

Storage of Alufix components in 6 clearly laid out, spacious and fully extendable drawers, also suitable for Alufix 40 Bars 80x80.

Additional storage compartment mounted at rear for safe storage of long bars and profiles 50x50.

Two top drawers are equipped with inlays for small components. Lower drawers equipped with non-slip mats.

Load capacity per drawer 75 kg



Storage compartment

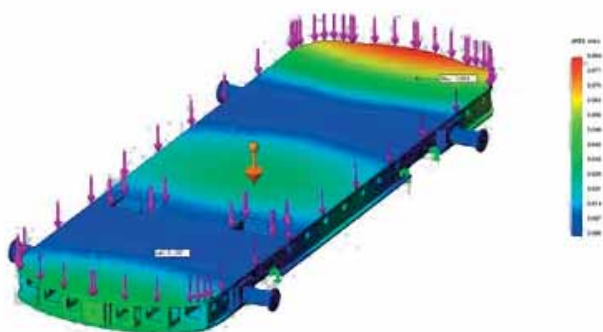
#51753 for storage of long bars 50x50

H x W x D: 660 x 480 x 68 mm

Storage of long bars in 6 pockets.

Assembly on rear of workstation with M8 screws included in supply.





All sandwich plates are tested and optimized for capacity and rigidity according to FEM analysis

Witte FixBase®

Base plates and positioning systems

■ Accurate and very rigid Sandwich plates are used as bases for measuring or holding fixtures, as a cantilever for CMM measuring surfaces or as transport plates. They offer highest rigidity but are comparatively lightweight

■ Sandwich plates can be used vertically or horizontally.

■ According to customer request plates are available with natural or black anodized surface, hard coating is also possible.

■ Whether extremely lightweight and economical or very accurate and demanding one of our options will suit your company's needs. Almost any type of grid can be integrated into the plate surface/s.

■ Important accessories to large plates are PWS (Precision Witte System) or PPS (Precision Positioning System) quick clamp systems. These are systems integrated into the plate to allow quick, accurate and repeatable positioning of sub-plates or adapter plates onto the Sandwich plate.

■ Optional accessories i.e.

- Cable/radio remote control
- Camera with monitor
- Position sensors
- Visual and acoustic warning signals
- Laser-scanner to monitor area of movement

As well as special versions such as

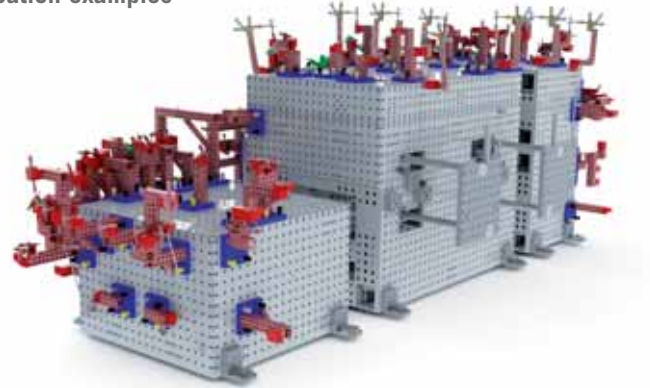
- Motor driven, automated
- Contoured plates which fit to work piece, also three dimensional plates
- Contoured plates which fit to work piece, in segments or modular
- Mounted with moveable surface plates
- With integrated scissor trolleys are available on request



Horizontal and vertical structure plates, on guide rails, automated

Witte FixBase®

Application examples



FixBase cube combination mounted with column type supports



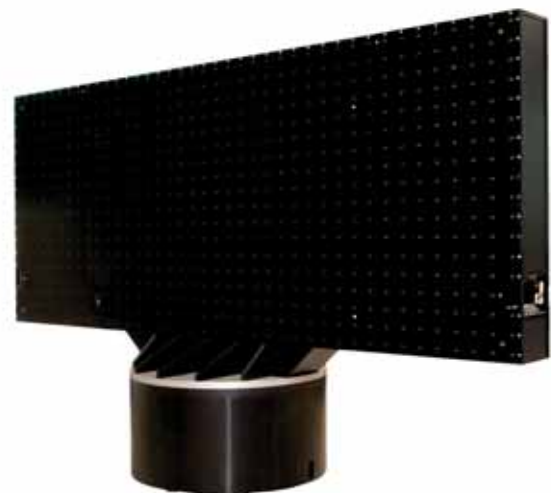
Fixbase Cube for mounting single parts of vehicle front



Horizontal Structure Plate with integrated motor driven jack system



Perpendicular Structure Plate with motorized height adjustment



Horizontal Structure Plate with integrated motor driven jack system



Witte FixBase® elements can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request.



Witte FixBase®

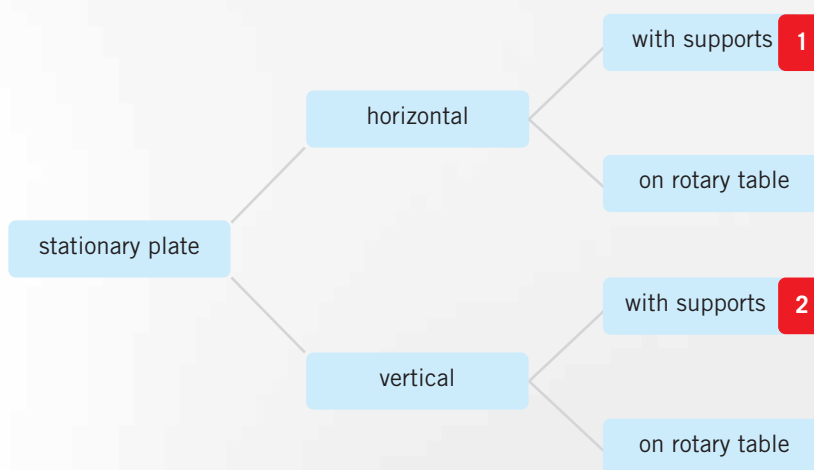
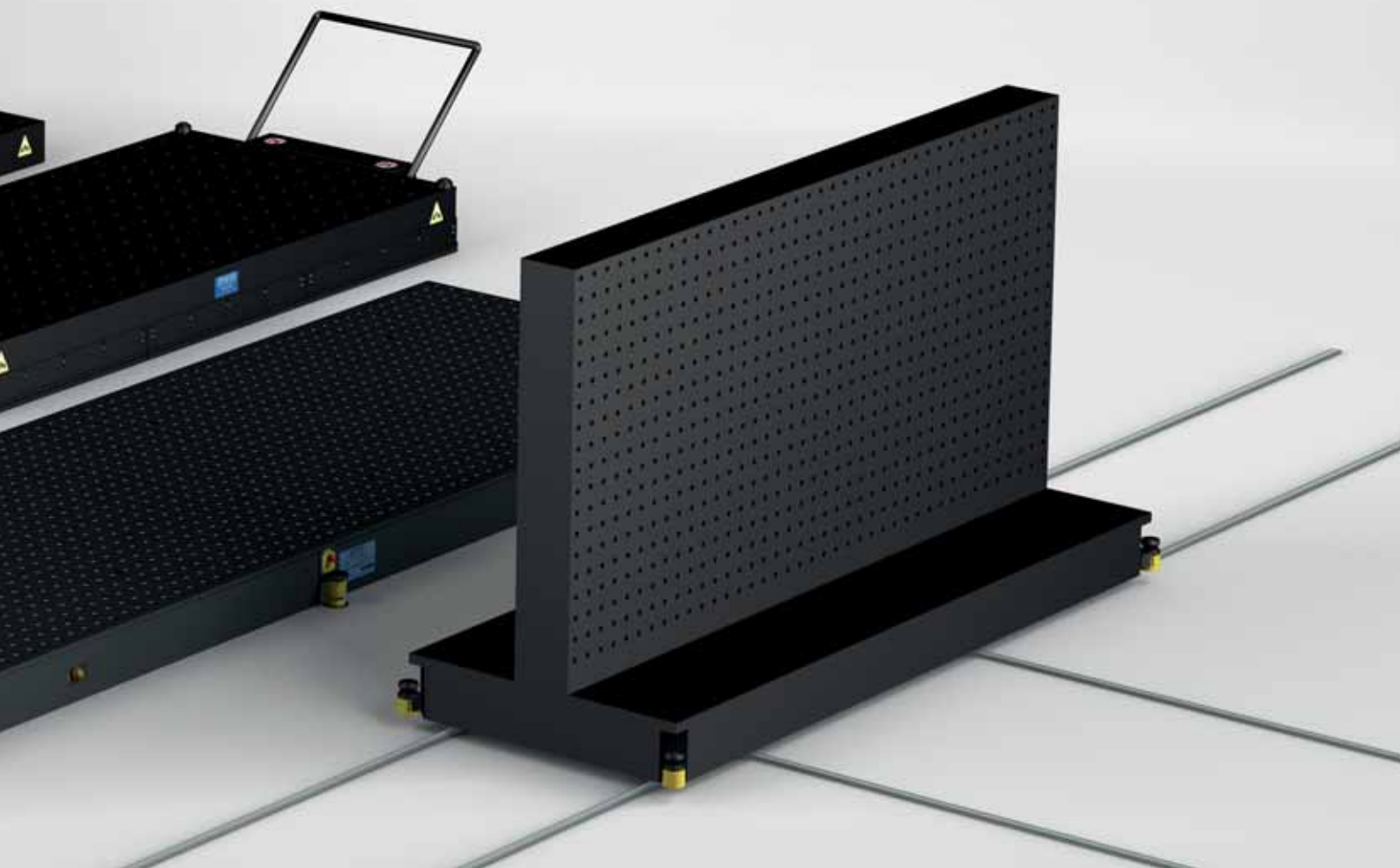


Plate versions



Witte FixBase® Equipment

According to design

Horizontal Structure Plate:



Steel supports



Hovercraft plates



Pendle rollers



Rails with direct driven tilt/lift units



Direct drive

Vertical Structure Plate:

with horizontal substructure



Steel supports



Hovercraft plates



Pendle rollers



Rails with direct driven tilt/lift units



Direct drive

Vertical Structure Plate:



Steel supports



Hovercraft plates



Pendle rollers



Direct drive

Witte FixBase® Special versions

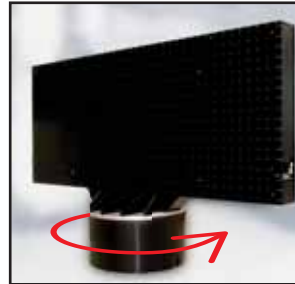
- Examples



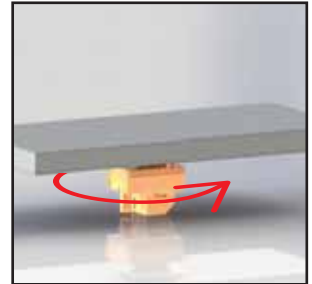
With integrated jack lift and air-cushioned and floating support plate



With integrated, motor driven height adjustment



On air-cushioned rotary table, for manual rotation



On electrical rotary table, motor driven rotation

Witte FixBase® options

- Examples

Slide units

Manual operation



Versions:

- mounted or integrated
- for vertical and horizontal sandwich plates
- mounted version possible for plates already in use
- freely selectable grid
- fixed positions using pins

Drive camera and monitor

For motor driven plates



Control unit with path monitor



Drive camera

Precision coupling units

for horizontal plates



Witte Fixbase Structure Plates

Dimensions

Surface dimensions:

Length x width, in one piece
1,5 x 3m up to 2,4 x 10m

Thickness:

150mm up to 1000mm

Larger dimension (in segments) available

Evenness:

Acc. to DIN 876 II Gen. 3

(up to 5m x 2m)

Higher accuracy available on request

Hole grid

Tolerance for grid JS7

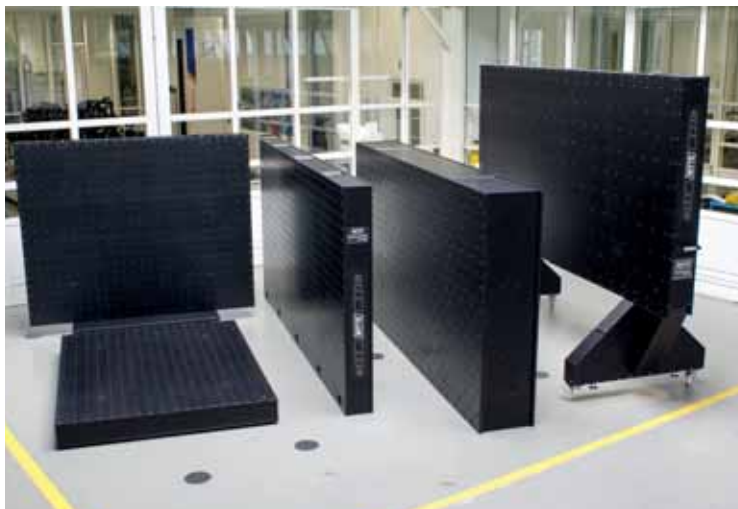
Total toleranz JS8

Higher accuracy available on request

Load capacity for horizontal plates

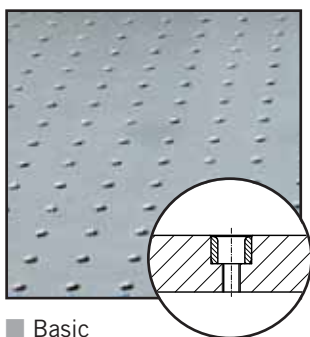
500kg/m² up to 2000kg/m² standard

Higher load capacity available on request

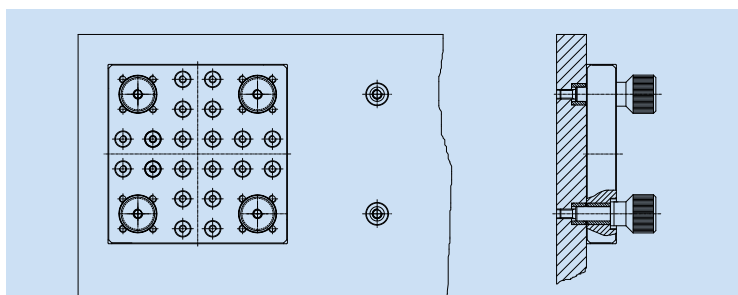


Set up surface

Classic



■ Basic
thread with fitted sleeve



Column connection classic – with fitted screw

Simple and proven version.

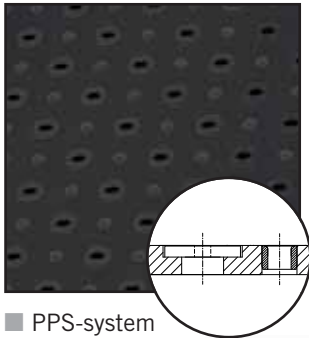
Two types of locators are available:

- Snug fit, floating (XY positioning)
- Without fit (only clamping)

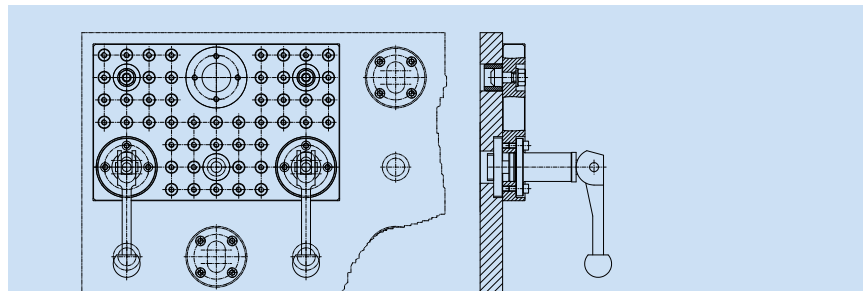


Set up surface

PPS



■ PPS-system



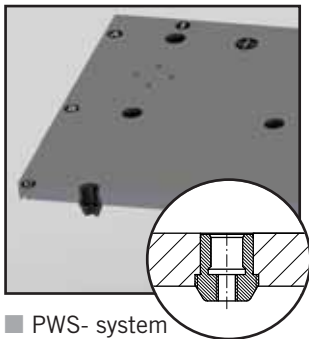
Column connection with Witte **PPS**-quick clamp system

Separate positioning and fixation of footplates via centering pin and clamp units

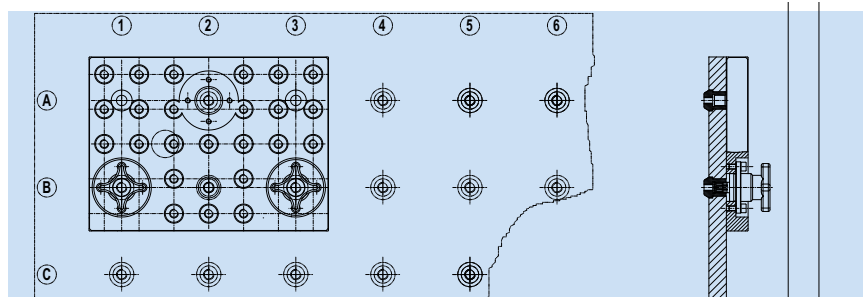


Set up surface

PWS

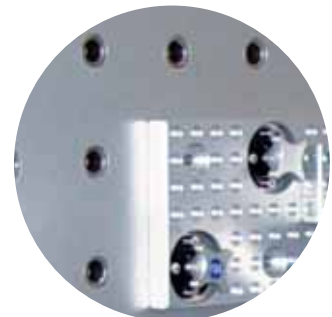


■ PWS- system

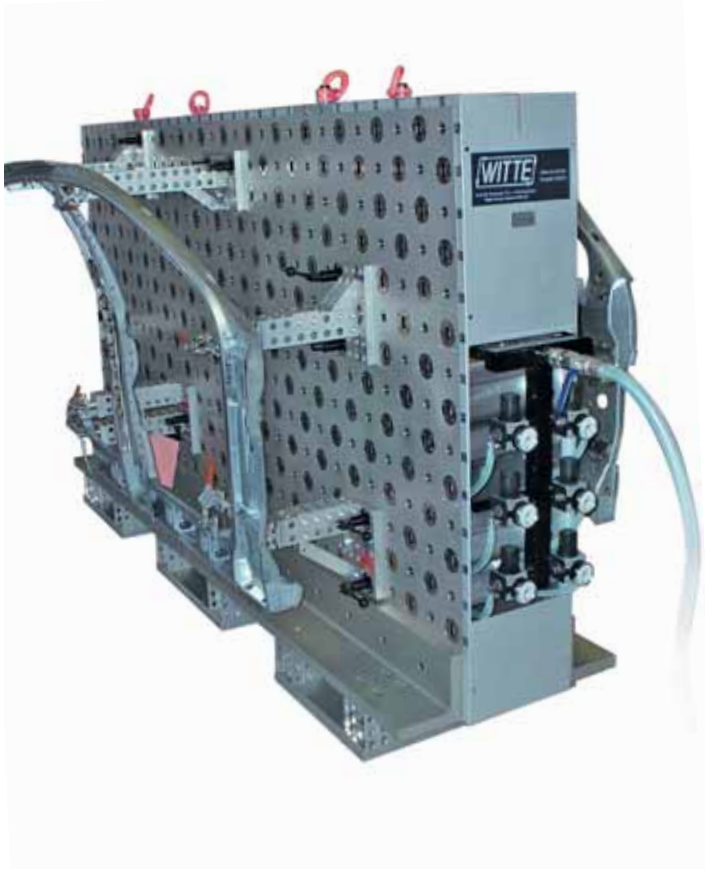


Column connection with Witte **PWS**-quick clamp system

Expanding clutch bolt centers and clamps footplate on PWS grid or sandwich plate



Witte FixBase® elements can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request.



Alu Sandwich Plate with hovercraft hose connected

Sandwich plates can be Witte-equipped with a hovercraft cushion system. This enables easy and quick transport of the plate from loading area to checking area (CMM surface area). Even plates with heavy loads can easily be moved over cracks, seams or ridges in the floor. Air pressure is individually regulated to adjust to irregular weight distribution guaranteeing a smooth and even ride.

For effective and problem free performance of hovercraft systems, a smooth non porous surface i.e. plastic coated, ground cement or vinyl flooring is ideal. Please contact us for specifications to ensure proper function in your facility.



Hovercraft cushions mounted on underside of Structure Plate, optional direct drive and steel supports



Alu Sandwich Plate with hovercraft

Independent, operation with integrated air tanks

A special way of moving sandwich plates is by using intergrated air storage system. Internal pressure cylinders allow self sufficient plate movements meaning that no air supply hose is necessary. Besides increased mobility it also adds to flexibility.

The air reservoir system is designed for a drive mode for a minimum of 2 minutes. Filling up of the reservoir (max 12 bar) is completed after a short period of time. Depending on floor conditions drive mode of 2 minutes can often be exceeded.

This option for Witte Sandwich plates has to be integrated into initial design and purchase of a plate. The air storage system cannot be re-tooled or added to a plate at a later date.

-  Minimum plate thickness 250mm
Reloading via normal house circuit
Low working pressure (max 20 bar)
No high pressure compressor system required
-  Safe, low-maintenance and economical complete concept



 **Witte FixBase®** elements can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request.

AluSandwich Roller Plate

with floating heavy duty guided rollers



View from underneath

Applications:

- For uneven, porous or joined (tiled) floors
- If no air pressure is available or current operations will be adversely affected

Characteristics:

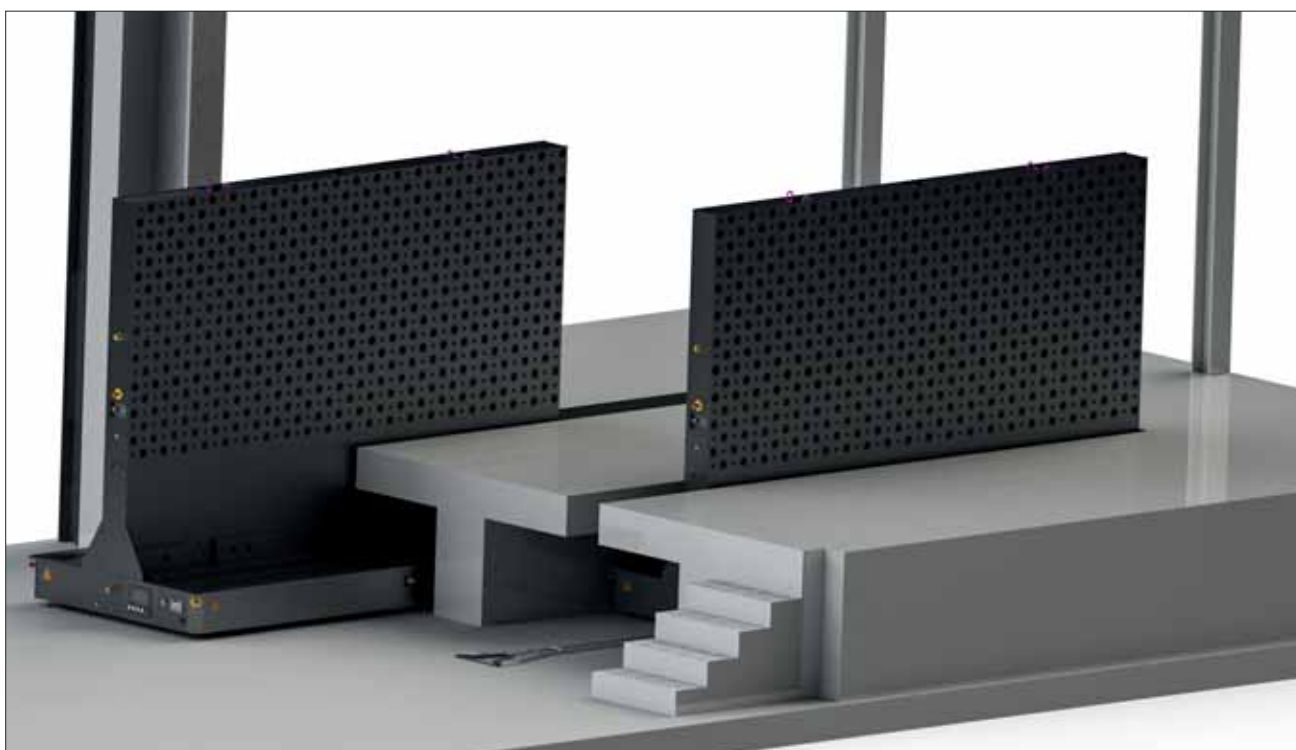
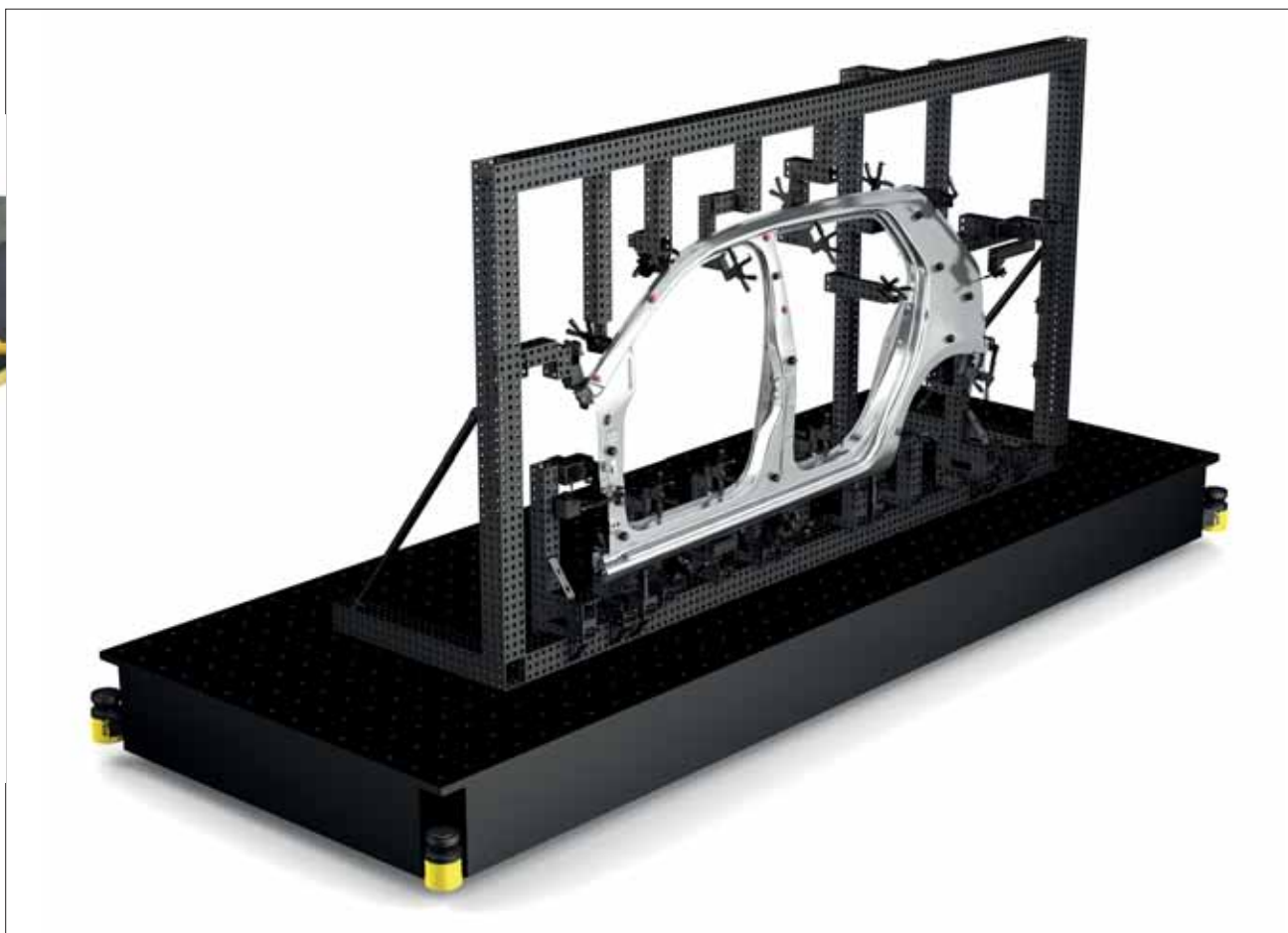
- Automatic crawl speed when reaching final position

Equipment options:

- Direct drive or E-Mover
- Camera with integrated screen



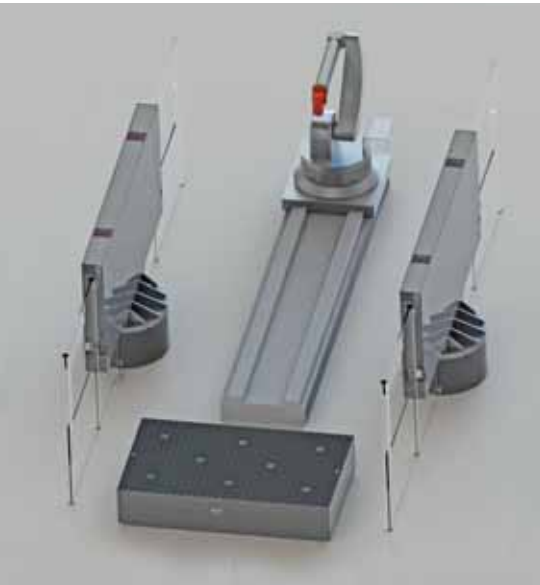
Control panel with camera monitor



Witte FixBase® elements can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request.

Alu Sandwich Plates

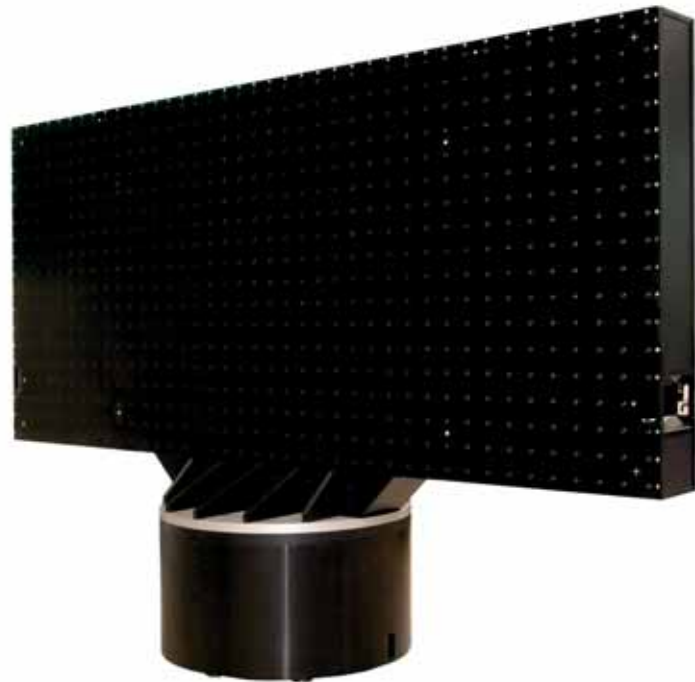
rotating



Robot measuring cell for optical measuring

Configuration:

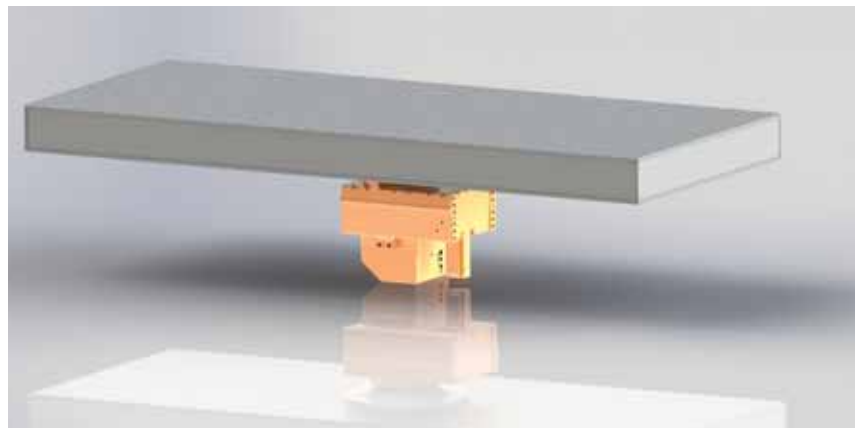
- 2 vertical sandwich plates mounted on rotating hovercraft supports, rotatable by 180°
- 1 stationary, horizontal sandwich plate with extended height
- On hovercraft, rotary and tact tables
- To reach both work pieces or do assembly from outside without interrupting measuring process
- Integrated safety monitoring, release switch



Vertical alu sandwich plate on hovercraft rotary table



Horizontal sandwich plate on motorized rotary table (shown without base unit). Force is directed to the rotary plate via inner plate structure



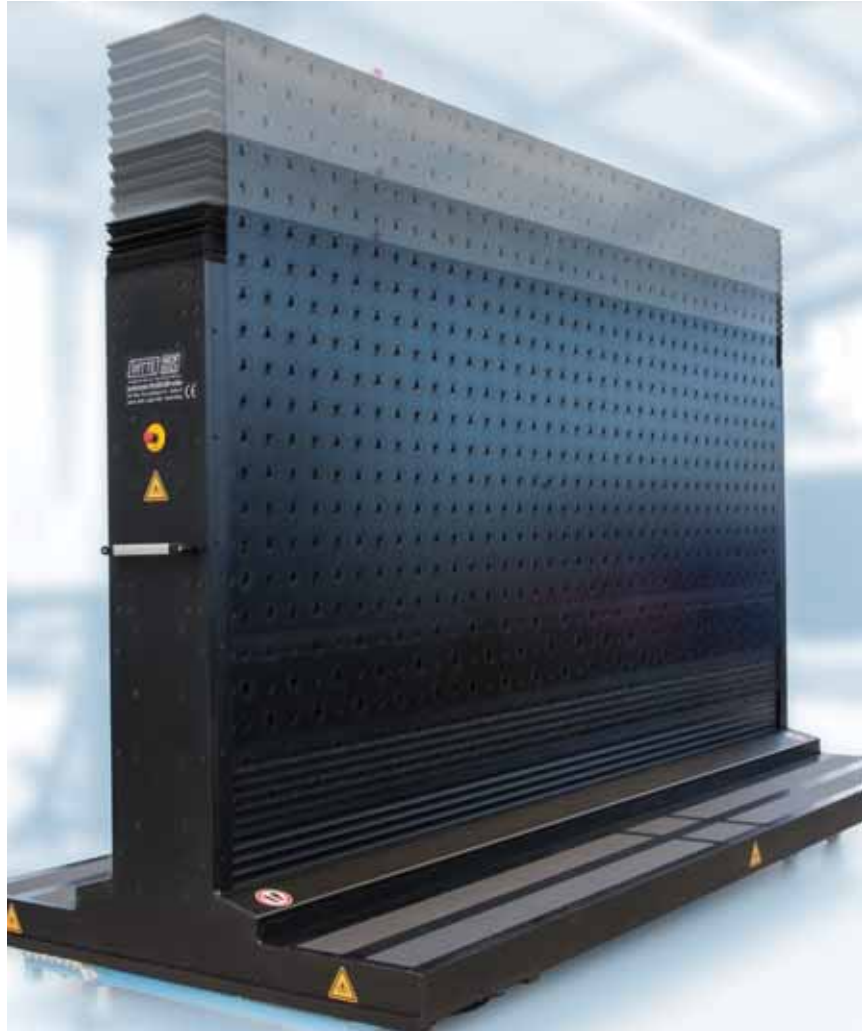
Alu Sandwich Plates

height-adjustable

Motor driven height adjustable sandwich plate for parallel use of tactile and photogrammetry measuring tasks.

Example configuration on the right:

- 750 mm lift
from 2050 to 2800 mm.
- Clamping surface on both sides
3700 x 1700 mm
- Hovercraft with direct drive
- Double sided PPS grid
- Walk-on base for easy use of plate
- Grid surface anodized black
- Equipped with safety features,
hook-eyes, emergency stop on
both face ends and allround
foot protection



Witte FixBase® elements can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request.

DTS - Driverless Transport Systems

With alu Structure Plates Rail-guided

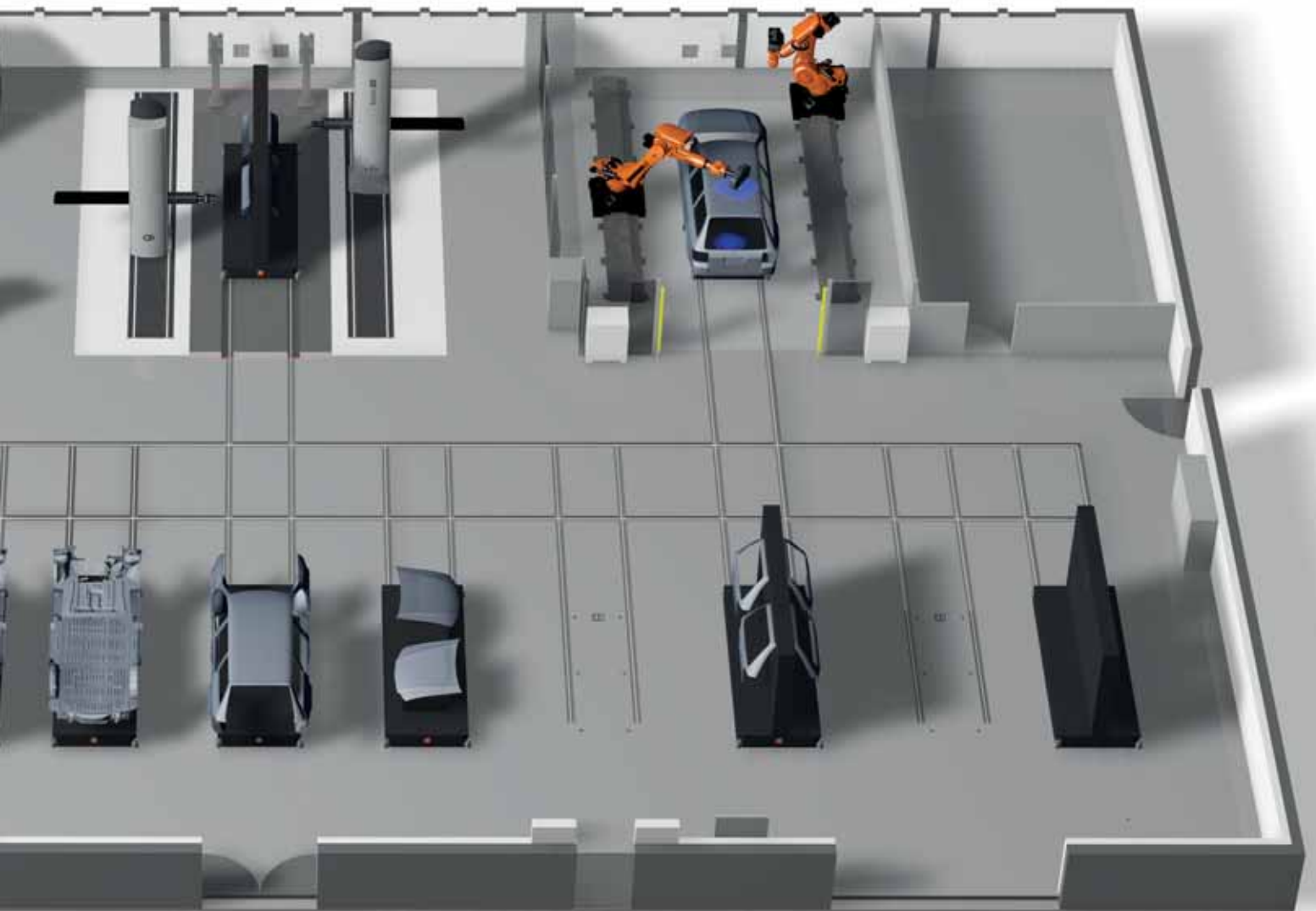
- For fully automatic controlled loading stations
- Quiet forcibly guided run rails embedded in the floor
- No edges or grooves to stumble over
- 90° cross operation due to correspondingly arranged pivoting wheels
- Electro drive with battery operation
- Position monitoring/controlling with RFID transponders and IW-LAN radio network
- Positioning in CMM by lowering on to centering rings



Example of a recent project:

- 6 horizontal, 5 vertical sandwich plates
- Loading of 2 tactile double arm CMM and a duplex robot cell for blue-light photogrammetry
- Plate system and measuring equipment are remote-controlled by a master control station





DTS - Driverless Transport Systems

With alu Structure Plates, transponder-guided

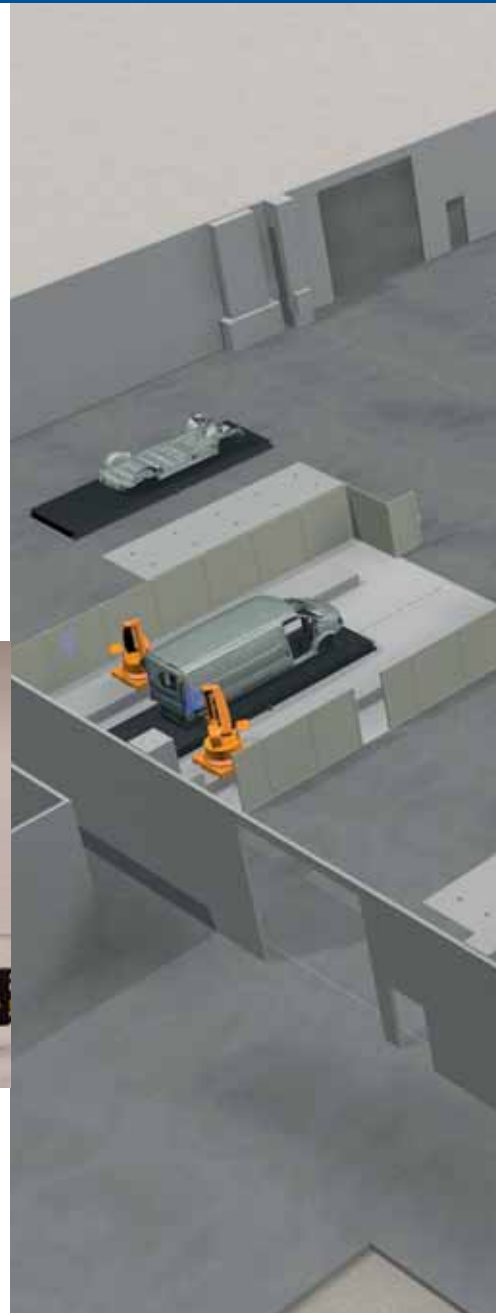
For fully automatic loading systems

- Quiet, accurate precise running via RFID chips embedded in the ground
- No mechanical travel or guiding elements required
- Straight forward / backward movement and turn on the spot
- Electric motor drive with battery supply
- Position monitoring / control with transponders and IW-LAN wireless network
- Repeatable positioning in the CMM by lowering on centering rings



Example of an implemented system:

- 9 horizontal structure plates 8x2,4m
- loading of 2 tactile double-column CMMs and 4 duplex robotic cells
For photogrammetry measurement
- independent start / target movement with loading / collision monitoring

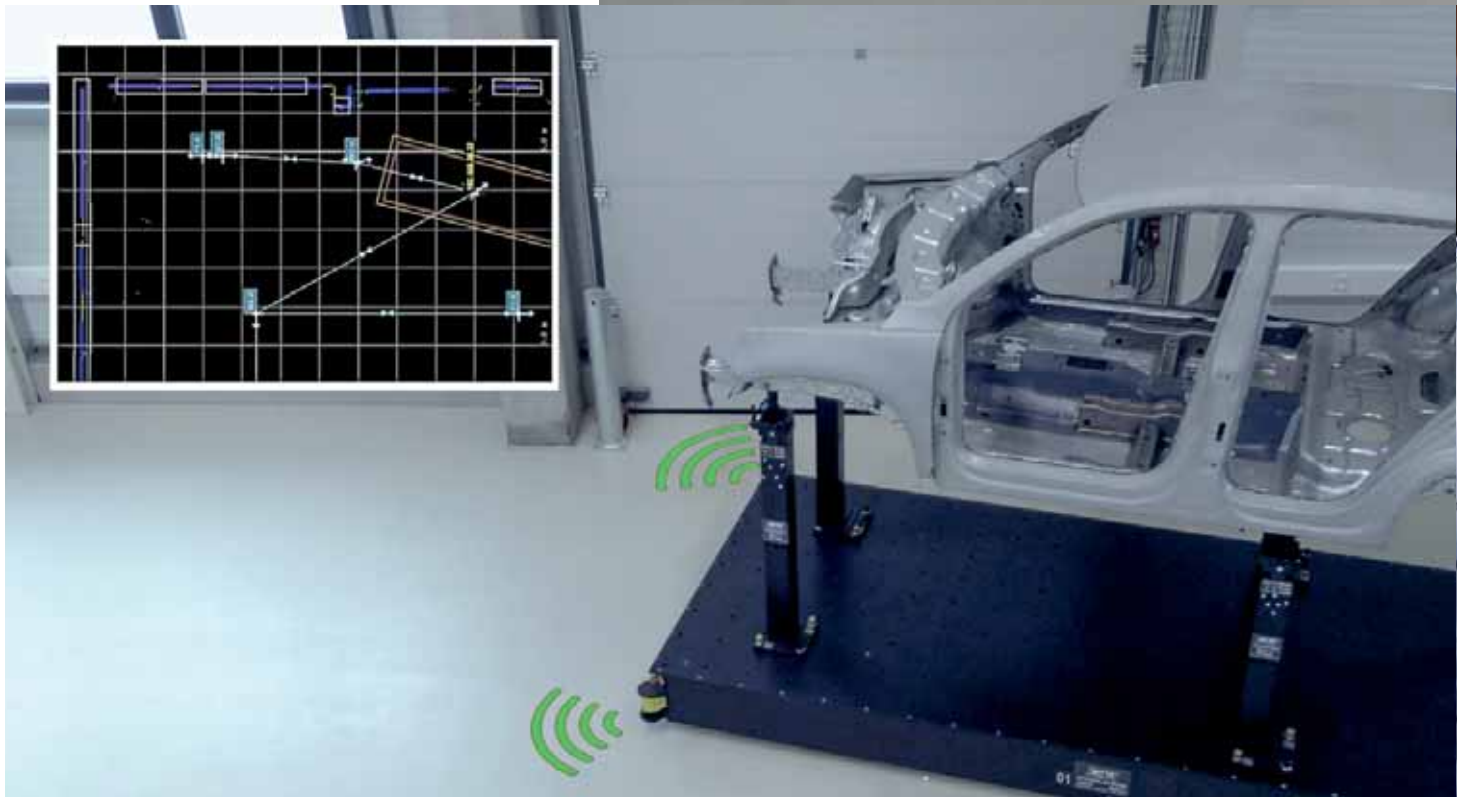
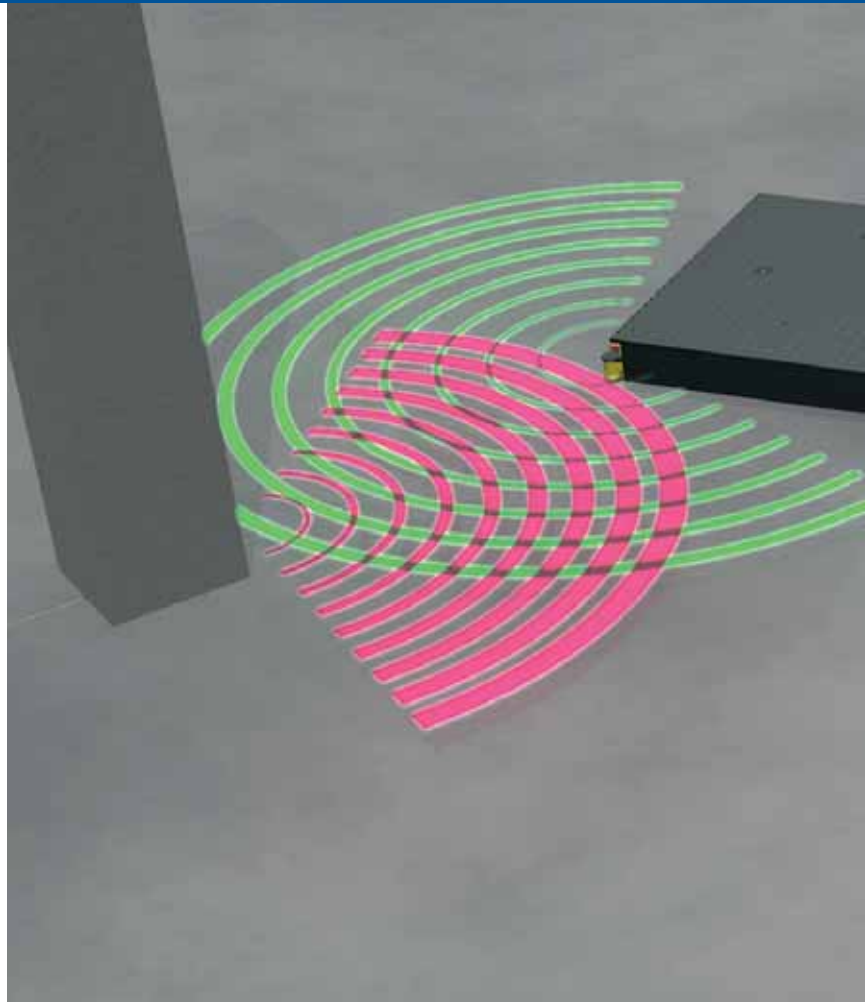


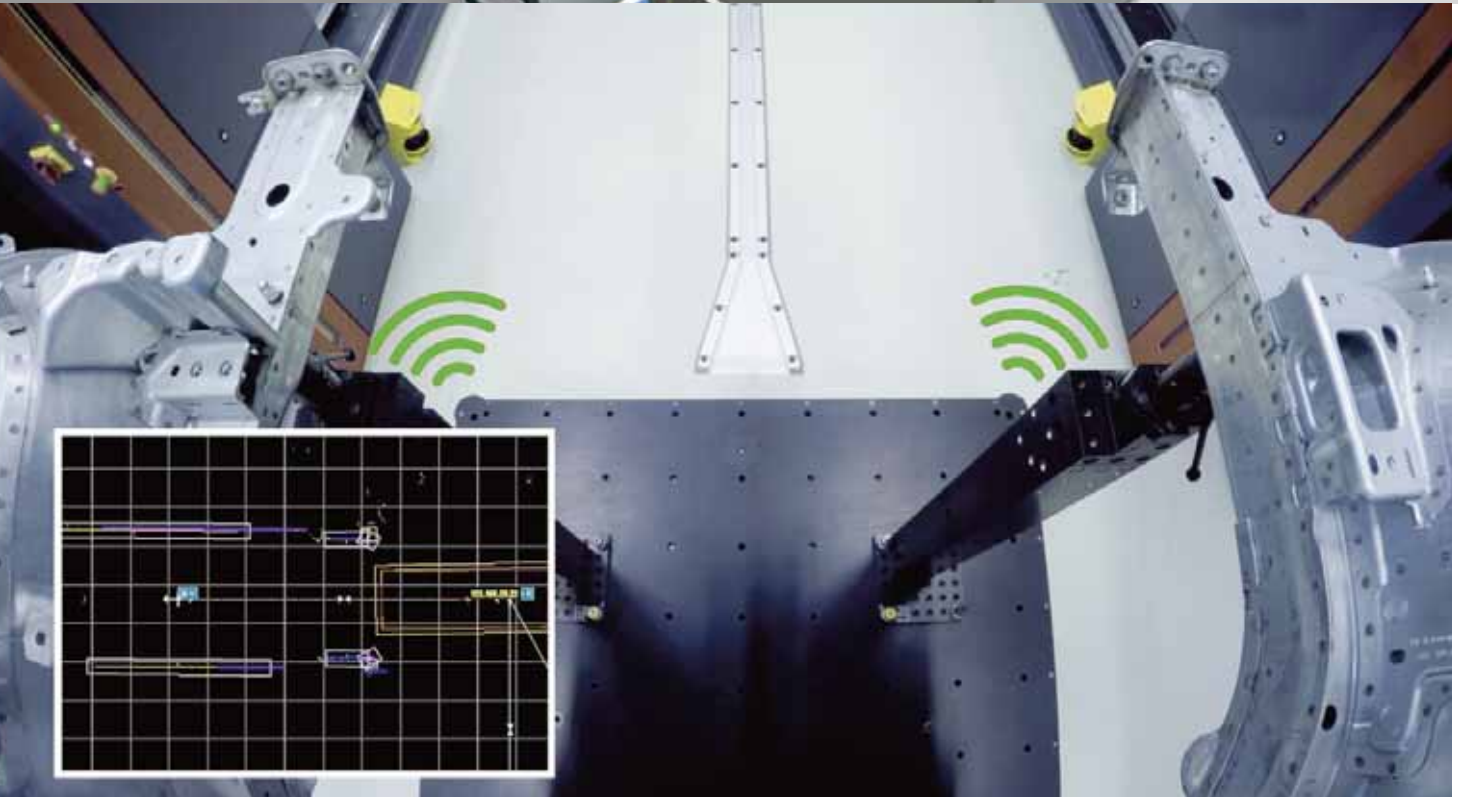


DTS - Driverless Transport Systems

Autonomous driven

- For fully automatic controlled loading equipment
- Quiet, accurate running due to permanent, independent orientation and navigation according to hall layout
- No drive or guide elements
- Straight forward / backward movement and turn on the spot, cornering (in preparation)
- Electric motor drive with battery supply
- Repeatable positioning in CMM by lowering on centering rings
- Fast changeover to new halls.
Layouts customizable, through easy reprogramming of the path tracks
- Independent alternative route calculation possible







Alu sandwich plates Special solutions

Complete vehicle unit for inspection and measuring of test cars or cars due for delivery. The vehicle is either driven or pulled onto the plate using a winch. After scissor trolleys raise the vehicle it is set down on RPS or car jack up points.

The sandwich plate is equipped with hovercraft and as an option can be driven with friction wheels. Scissor trolleys and winch are power operated.



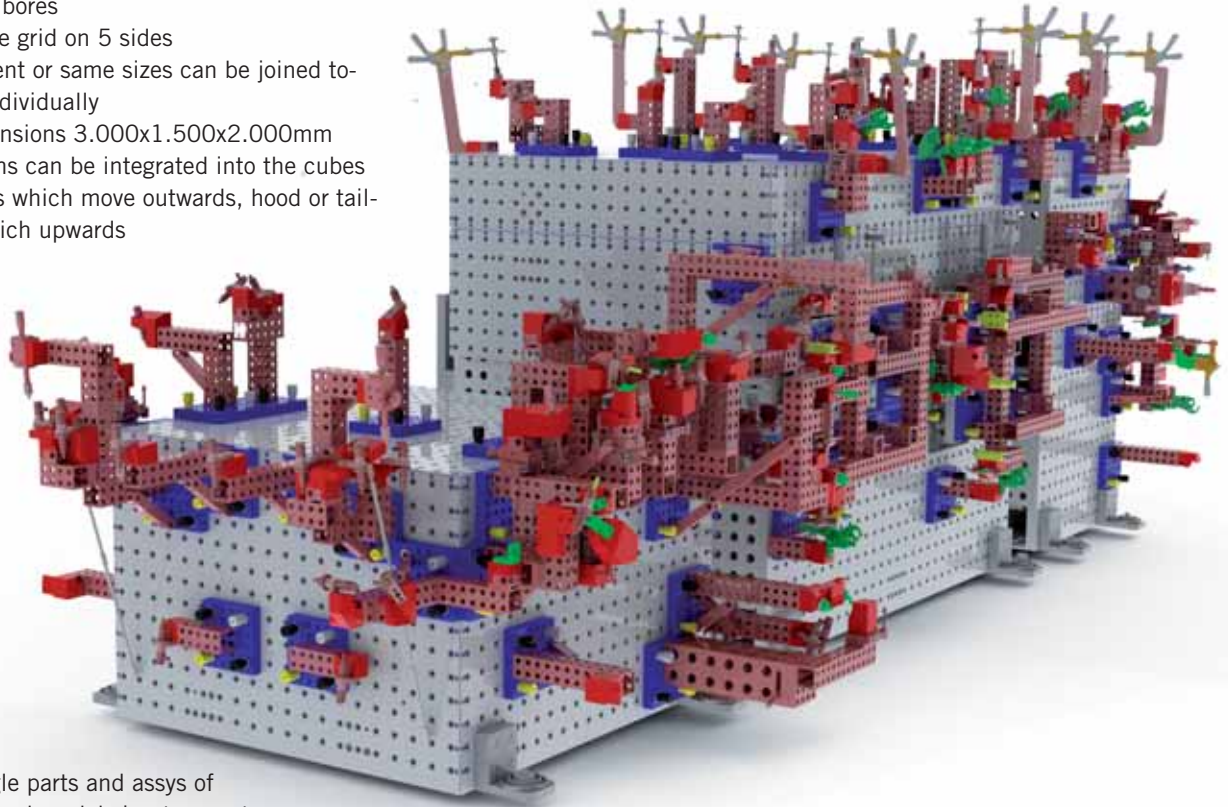
Alu sandwich plates Heavy load version

Rib type Alu sandwich plates are especially suitable for very heavy loads. The picture on the left shows a hovercraft Alu sandwich plate with dimensions 2000x4000x300mm. With its own weight of approx 1,5 to the total load capacity is 15 (fifteen!) to.

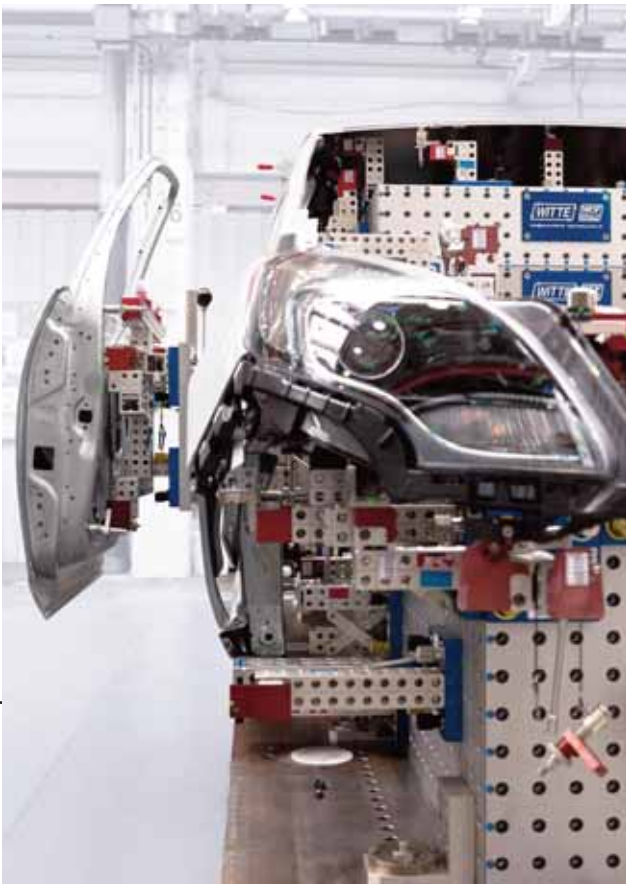
Fully loaded the plate can be moved with only two persons, with the help of the electro mover even by one person on their own.

FixBase® Cubes

- Cubes mounted with grid plates:
- Grid with fitted bores
- Flat, full surface grid on 5 sides
- Cubes in different or same sizes can be joined together or used individually
- Maximum dimensions 3.000x1.500x2.000mm
- Further functions can be integrated into the cubes i.e. door supports which move outwards, hood or tail-gate supports which upwards

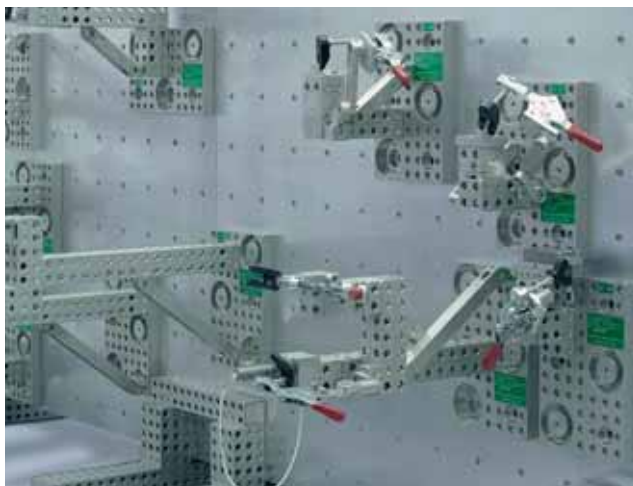


Supports for single parts and assys of various versions and models i.e. two-seater, notchback, limousine, estate, van, SUV are possible using corresponding configurations

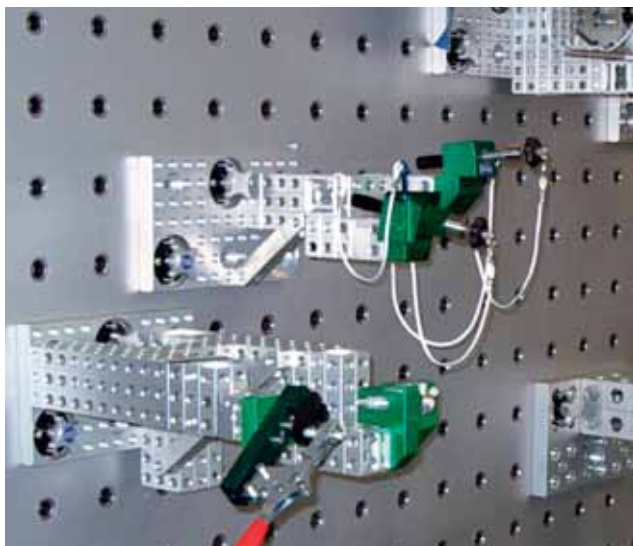


Application example for FixBase cubes

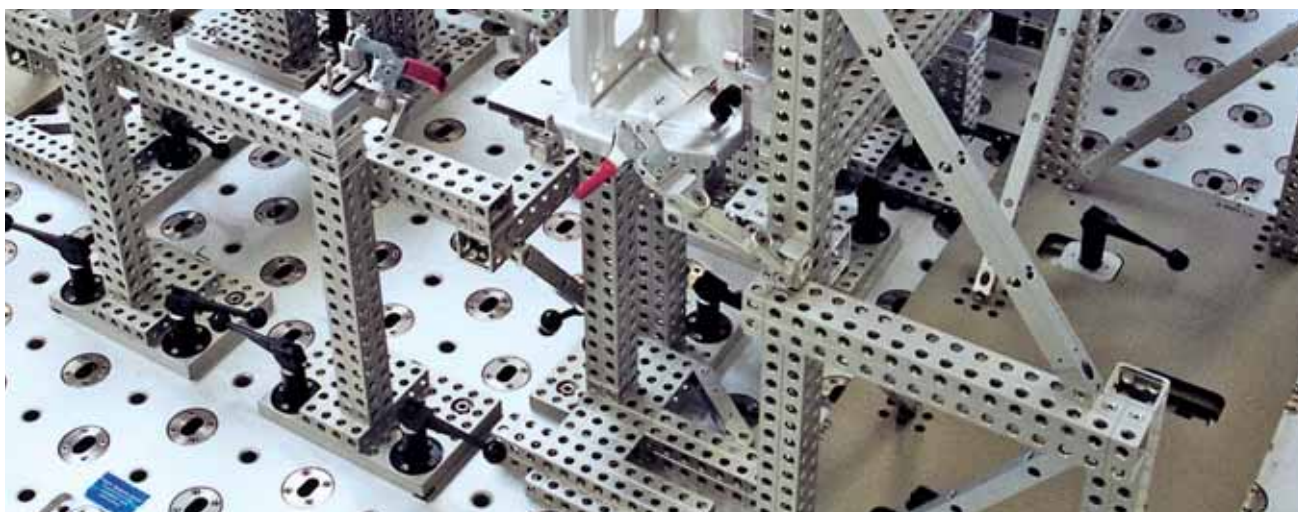
- Single cube for frontend (top)
- Combination of several cubes to mount all parts of a body-in-white



Column supports on footplates with fitted screw connection



Columns connected using PWS system



Columns connected using PPS system bayonet clamps

Column variations

for use on sandwich plates

Combining a grid plate (conventional or sandwich type) with exchangeable columns offers following advantages:

Use of one base for user-defined assembly of various work-pieces, different assembly degrees of parts (single parts, welded groups, assemblies) different derivatives, match metal function.

Considerably less storage space is required in comparison with complete fixtures. Comprehensive accessories such as multi level trolleys, foldable, stationary or mobile storage stations and tables are available for storing column supports.

Multiple use of column supports is possible on different base plates or in different departments.

Pre measuring of supports on small measuring equipment is possible.

Different types of connection:

- Fitted screws,
- PPS (centering bolt and bayonet lever),
- PWS (clutch bolt with centering pin).

Optional simple footplates for Megalu columns or modular footplates for Classic or ECO bars are available.

The supports can be used for further functions or contact points by using folding or quick change couplings.

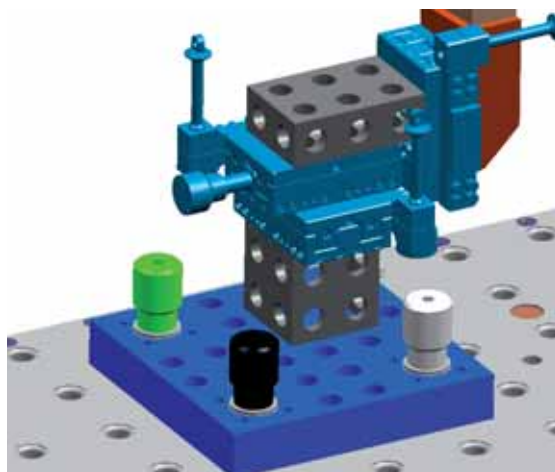
Longer bars on columns are supported by sharp angled struts or connected with one another when mounted.

Column connection

with fitting screws for basic grid holes

Simple and proven version.
Two types of locators are available:

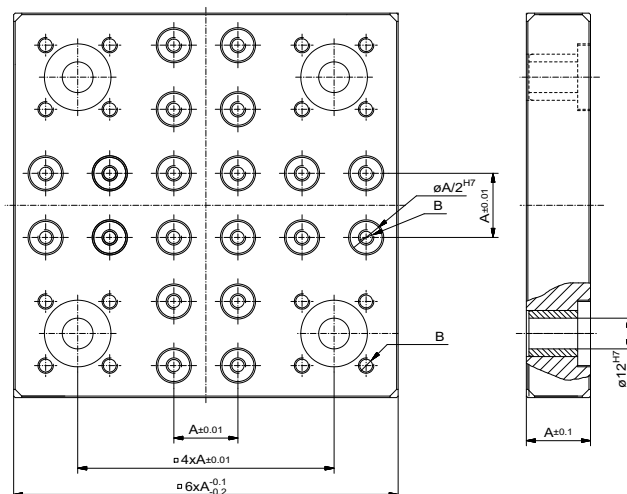
- Snug fit, floating (XY positioning)
- Without fit (only clamping)



Footplate

150 x 150, AF 25/50

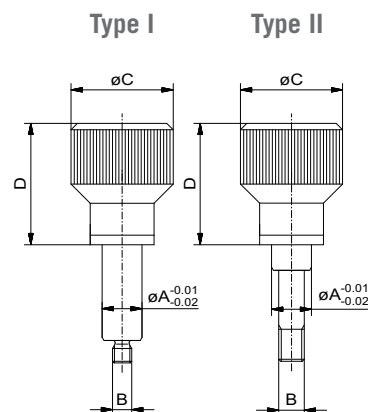
Nr.	A	B	C		
289356	25	M6	ø12H7		1.500



Fitting screw

Type I and II for footplate 304231

Nr.	A	B	C	D	Type	
94819	12	M8	32	38	I	180
94993	10,5	M8	32	38	II	175



Witte FixBase® elements can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request.



Footplates are available in various dimensions with different grids. Fitting screws are available in other dimensions.



Column connection

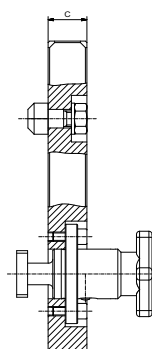
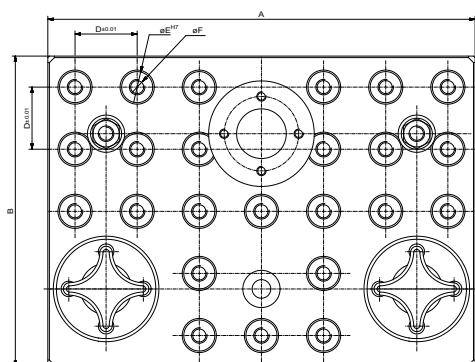
with Witte PPS quick clamp system

Separate positioning and fixation of footplates via centering pin and clamp units



Footplate for Witte PPS System

with star knob



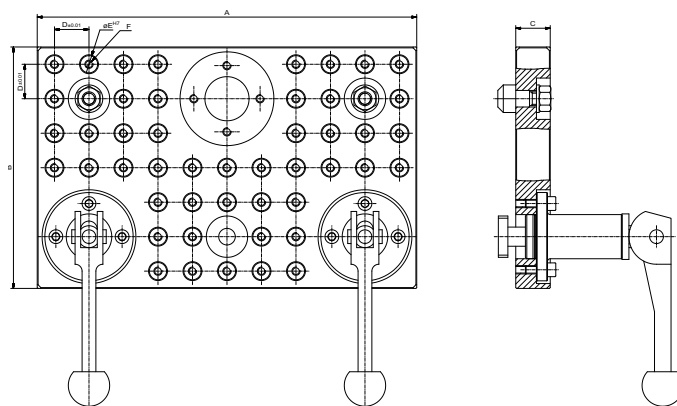
Nr.	System	A	B	C	D	E	F	G
93513	AF 25	275	175	25	25	12,5	M6	3.300
93514	AF 40	275	200	25	40	20	M10	3.740
93515	AF 50	300	200	30	50	25	M12	5.100



Footplate for Witte PPS System

with hand lever

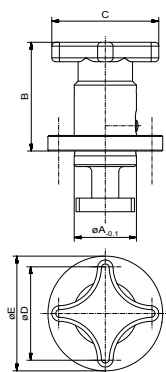
Nr.	System	A	B	C	D	E	F	
84608	AF 25	275	175	25	25	12,5	M6	3.950
84609	AF 40	275	200	25	40	20	M10	4.400
91050	AF 50	300	200	30	50	25	M12	5.560



Lock unit

with star knob

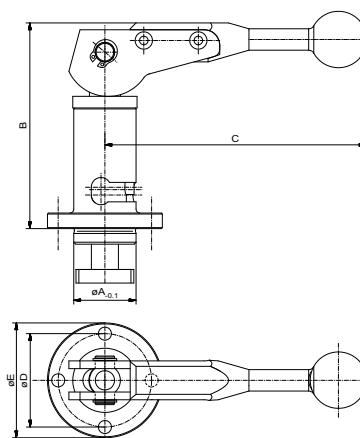
Nr.	A	B	C	D	E	
93444	32	56	55	48	59	280



Lock unit

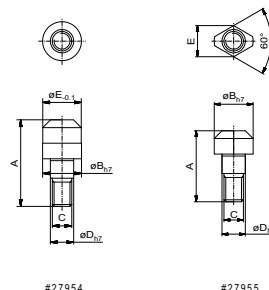
with hand lever

Nr.	A	B	C	D	E	
82714	32	106	135	48	59	1.500



Centering pin

Nr.	A	B	C	D	E	
27954	44,5	20	M10	12	19,8	60
27955	36,5	20	M10	12	16	36



 **Witte FixBase®** elements can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request.

 Accessories such as wheels, hook eyes, angle plates and fitting screws see at page 186

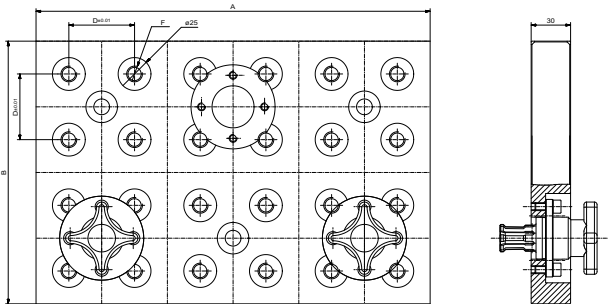


Column connection
with Witte PWS quick clamp system

Expanding clutch bolt centers and
clamps footplate on PWS grid or sand-
wich plate



Footplate for Witte PWS System
with expanding clutch bolt 45°



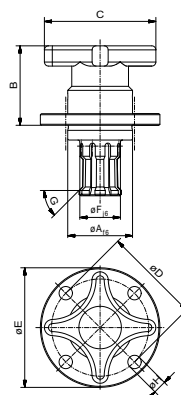
Nr.	Typ	A	B	C	D	E	F	
93525	2	175	175	25	25	12,5	M6	2.280
93524	1	275	175	25	25	12,5	M6	3.050
92883	1	175	175	25	25	12,5	M6	2.370
92842	1	275	175	25	25	12,5	M6	3.080
92950	1	200	200	25	40	12,5	M10	3.200
92843	1	275	200	25	40	12,5	M10	3.540
92844	1	300	200	30	50	12,5	M12	4.840



Expanding clutch bolt

with star knob

Nr.	A	B	C	D	E	F	G	H	
93523	32	39	55	48	59	12	45°	6,7	280
92755	32	39	55	48	59	20	45°	6,7	320
96109	32	39	55	48	59	20	30°	6,7	320



Footplate without bolts or locks

for Witte PWS / PPS System

Nr.	System	bolt dia.	Type	Base for nr.	
				PWS	PPS
27958	25	12 bzw. 20	1	93524/ 92842	93513
51561	25	12 bzw. 20	2	93525 / 92883	-
29375	40	20	1	92843	93514
51606	40	20	2	92950	-
33747	50	20	1	92844	93515



Sandwich plate mounted with PWS base plates using clutch bolts for grid 100mm



Witte FixBase® elements can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request.

Accessories such as castors, eye hooks, angle plates and locating pins are shown from page 186

EUROFIX

Hovercraft plates

- Material:**
- High tensile aluminium min. F47

Surface protection:

- Top surface anodized

- Bottom surface PTFE coated

Grid bores:

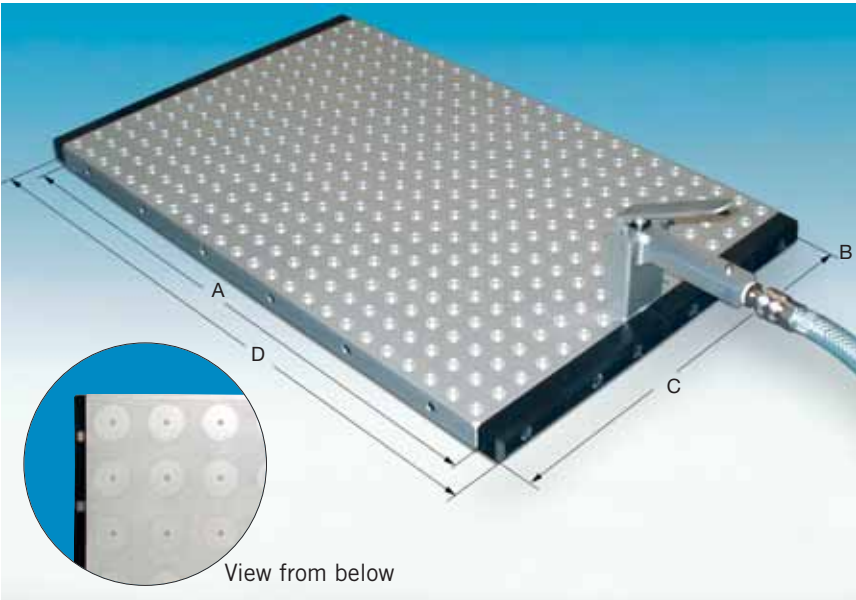
- Fitted bores 12,5H7/M6

grids 25 to 100 mm available
- Load capacity:**
- Depending on surface of measuring machine but min. 200kg

Air pressure required:

>3 bar

minimal air use (volume) required



Hovercraft Plates

For moving and positioning heavy workpieces on coordinate measuring machines.

The hovercraft plates have a grid pattern on the top surface.

Underneath the plate an air layer is created in such a manner that thread sleeves, T-slots or small gaps between the measuring machine and setting up area can be bridged easily.

The air is supplied via a rapid-action coupling and a handle valve.

Hovercraft plates

with handle and integrated hand valve

Nr.	Grid	A	B	C	D	
81209	25	400	25	300	450	9
81050	25	600	25	400	650	16
82153	25	600	25	600	650	19
82154	100	600	25	600	650	19



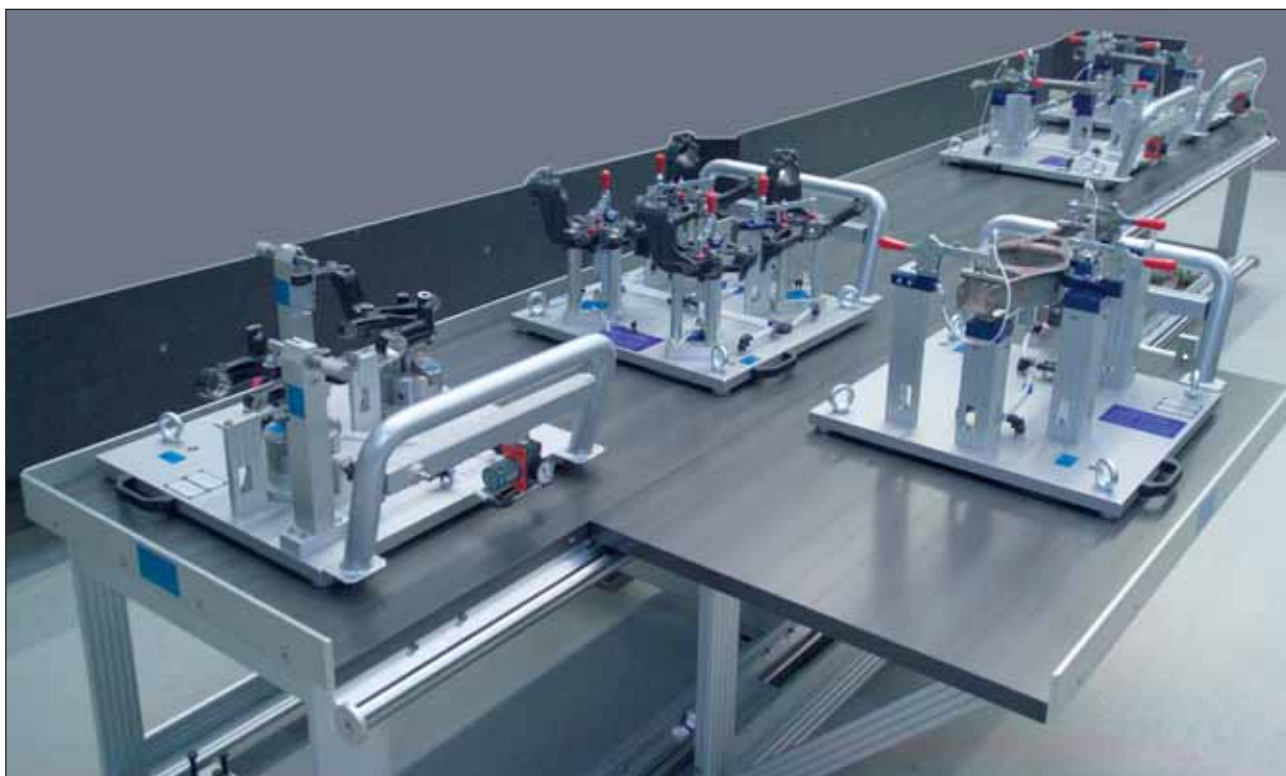
Jack up trolley

loading systems

Nr.	Table area	Lift	kg
81945	675x675	300	75
82280	725x950	300	80



Jack up trolley with hydraulic height adjustment from 700-1000mm. Surface area is HC coated with rollers on one side for easy transfer from table to measuring area



Loading station with 5 hovercraft plates each mounted with a different measuring fixture



ALUFIX CLASSIC elements can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request.



Load Capacity: 250 kg, from 50kg upwards we recommend a support on the face surface of the measuring machine. Other versions and dimensions on request



Mobile measuring unit

284751, with grid base plate:
800x1200, height 930mm,
grid 100 12/5/M6, Weight: 130 kg



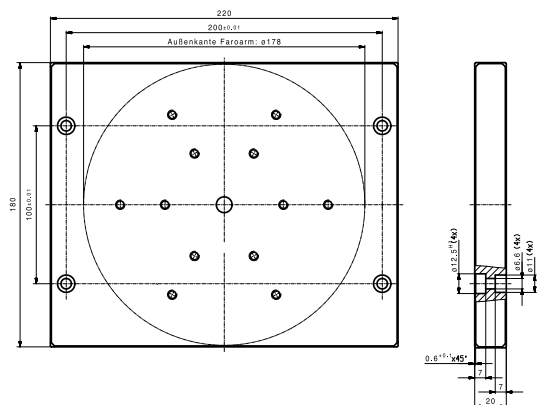
Mobile measuring unit

Nr. 284452, with height adjustable grid base plate:
800 x 1200 mm, height 930mm + lift 180mm,
grid 100, 12,5/M6
Weight : ca. 140kg



Mobile measuring unit - double

285101, with grid base plate :
1600x1200, height 930mm,
grid 100 12/5/M6, Weight: 170 kg



Accessory for above:

Adapter plate for FARO-Arm

91487

Incl. elements for connection to a.m. unit. Further
adapter plates for other arms are available on request.



Vacuum Base

282446A

This Vacuum Base is designed to be used in conjunction with a mobile measuring arm as a solid and reliably fixed base. An internal miniature vacuum pump achieves a maximum result for secure clamping within seconds as the clamping plate sucks to the surface. Warning lights, dial gages and a manometer guarantee safe operation during the measuring process. A variety of grids on the top surface enable mounting of all known mobile measuring arms. The Witte Vacuum Base is fully selfsufficient and needs no supply cables or wires which might hinder operating process. This gives the operator total flexibility during measuring as long as there is a non porous surface to work from. The rubber seal is designed to cater for slightly curved rough surfaces.



Dimensions: 260 x 80 mm

Weight: 3,7 Kgs

Clamping force:
maximal 4200 Newton at sea level

Battery Charger*: 100 to 240 volt

Battery pack* power: 12 volt
Light diodes indicate energy supply:
RED - Battery level low – Charge
YELLOW - Battery level half full
GREEN – Battery level fully charged

Should the battery level drop below the safe operating level then a signal will warn the operator.

End vacuum is adjusted to 200 mbar which equals 80%

(*): Parts are included in delivery



 **ALUFIX CLASSIC** elements can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request.

 Other versions on request



Milling and modelling table

For creating, positioning, working on clay models.
Modelling tables are equipped with a mirror enabling visualization of full model using scaled half models.
Milling tables enabling modelling and later machining of mounted models. Models can be positioned repeatably for machining in several steps.

Dimensions:

Length from 1.000 – 2.500 mm

Width from 800 – 1200 mm



Modelling table

For preparation and modification of clay models, i.e. inner doors. Models are worked on manually at optimal height and angle and can even be positioned in car line in an inner meisterbock. All linear movements as well as outward movement of castors are hydraulically supported. The base plate is equipped with sleeves so that repeatable exchange of different clay models is possible.

Technical data:

Length 1.000, width 800 mm

Height (max. when plate vertical) 1.680 mm

Weight including door carrier for clay models 230 kg

Max load capacity (in horizontal end position) 70 kg



Front interior model unit

Ergonomic modelling unit comprising four single components

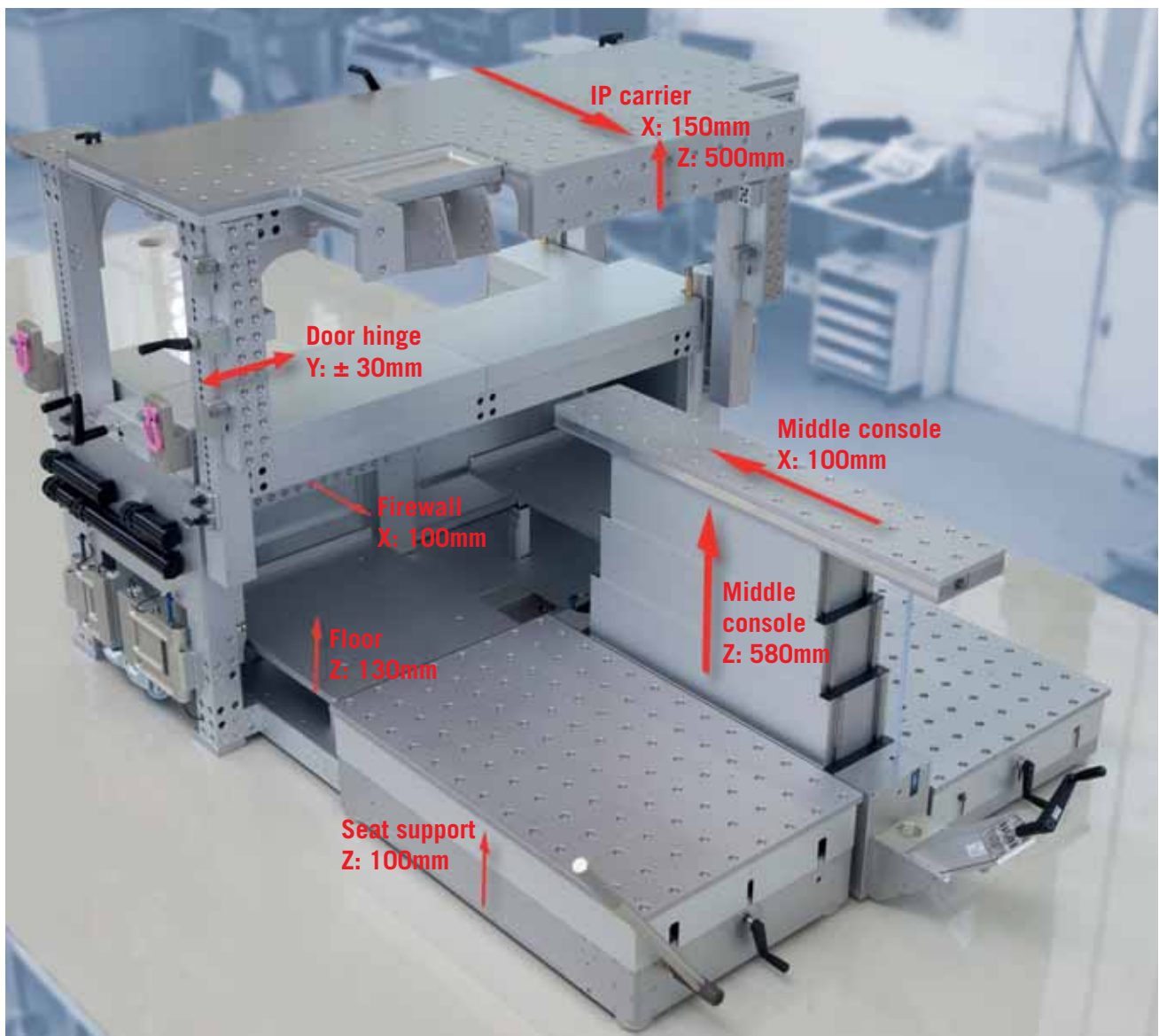
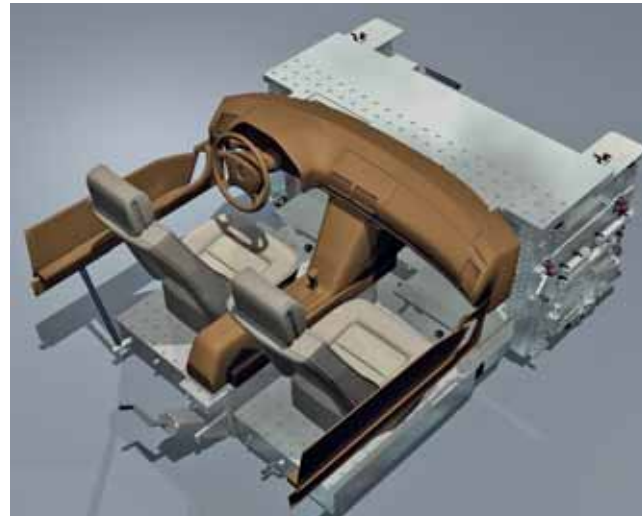
- Instrument panel with steering wheel connection and option to mount inner door models
- 2 dockable seat supports
- Dockable middle tunnel

The I-panel unit has several adjustment possibilities

- Length (X) 150mm
- Height (Z) 500mm
- Pedal supports additional 100mm in X
- Floor 130mm in Z
- Optional door supports +/-30mm in Y

Seat supports are height adjustable by 100mm in Z

The middle tunnel is adjustable in Z by 580mm and in X by 100mm

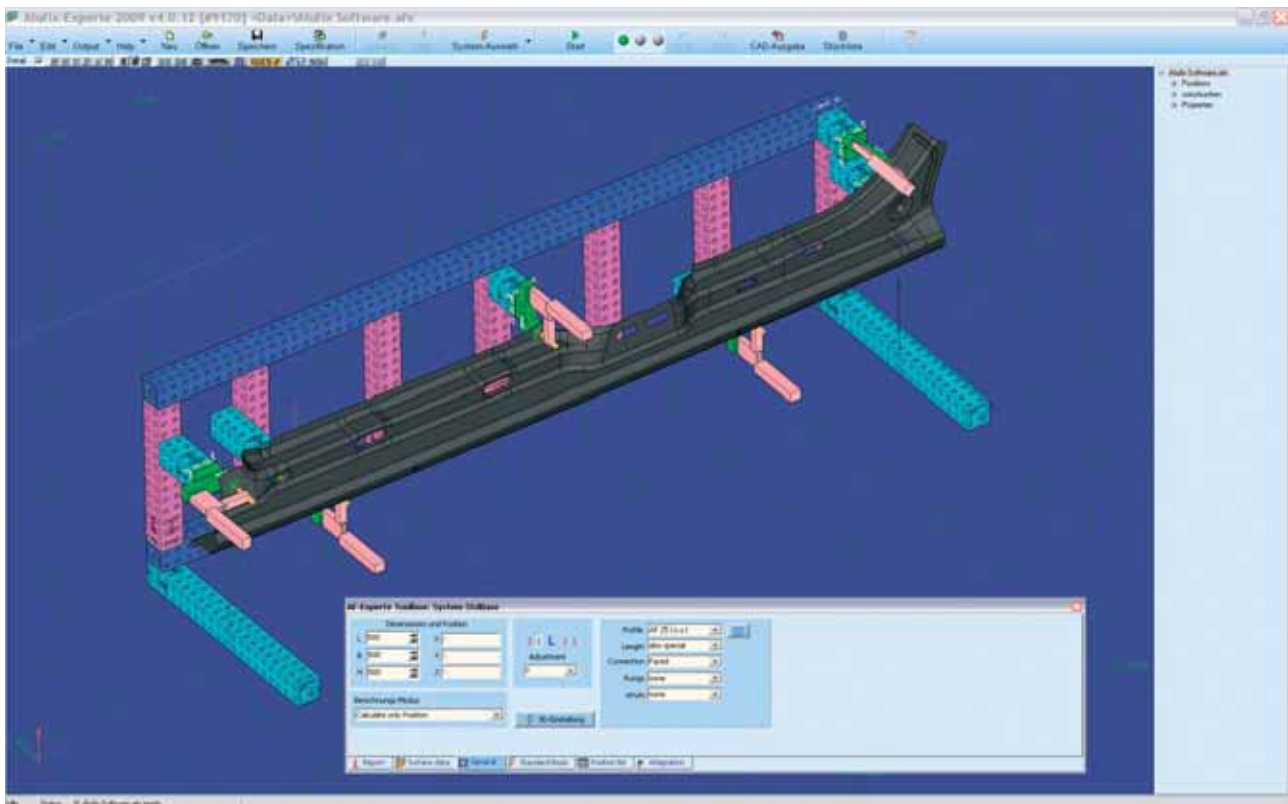


Alufix Expert 2016

3D Design Software #85344

Alufix Expert software makes automatic designs for fixtures with corresponding partlists. You choose the system and define clamping points. The software calculates on the basis of this information complete solutions and variations of a fixture. Simply select the desired Alufix system, the basic type of build (frame or plate), the grid size and the position and function of clamping points. On the basis of this input the software calculates complete solutions and variations. For checking purposes and measuring off of surface vectors additional part data in all established formats can be imported.

Pictures show some variations, which have been calculated by the software. The clearly structured, self-explaining software is easy to learn. Two separate but complementing help functions (Tool tips and Operation Manual) support users at all times. The design data is exported in either IGES, STL or VRML format (i.e. for offline programming of coordinate measuring machines), or can be transferred with a macro and the corresponding parts library in Catia V4/V5, Unigraphics or Autocad.



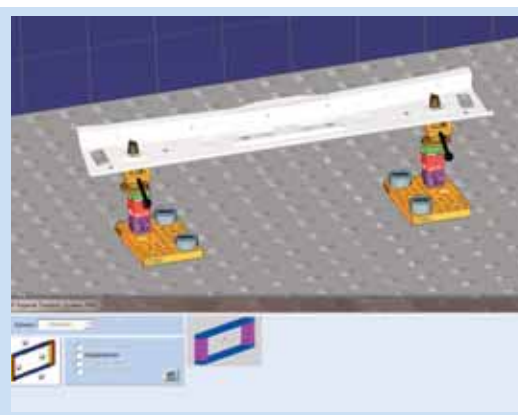
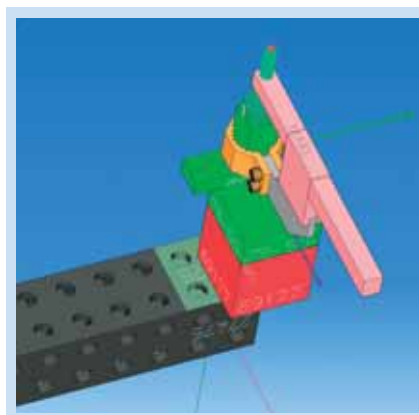
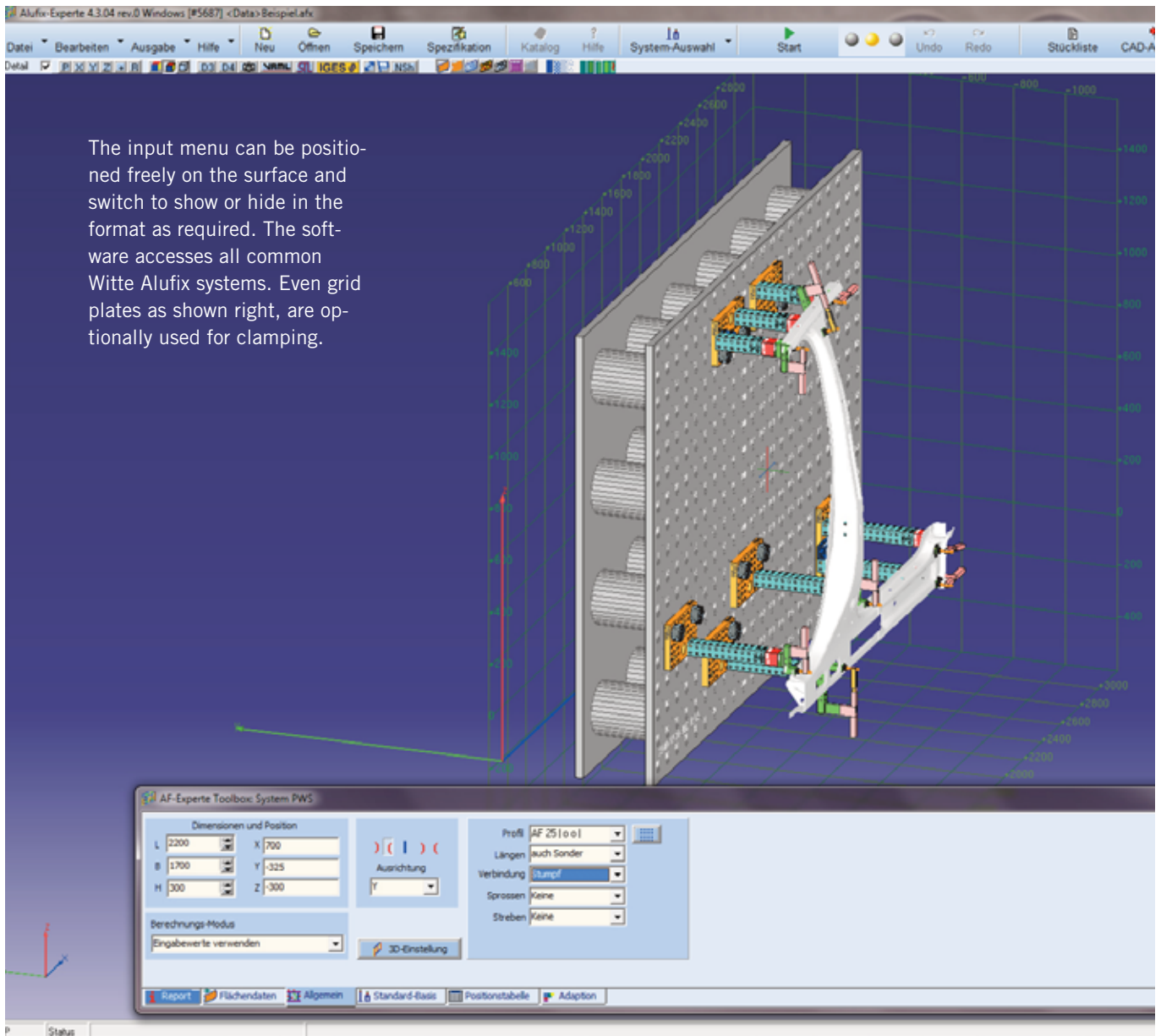
Partlist for C:\Dokumente und Einstellungen\roeber\Eigene Dateien\...

Pos	Qty	No.	Description	HF	Dimensions	Weight
1	1	20426	Bar Light	25	50	360
2	2	22950	Bar Light	25	50	2400
3	2	24245	Bar Light	25	50	360
4	2	24811	Bar Light	25	50	7560
5	2	25375	Bar Light	25	50	480
6	2	25658	Bar Light	25	50	800
7	7	26745	Bar Light	25	50	9170
8	7	Sonder	Special	25	Special	2366
9	1	Sonder	Special	0	Special	141
10	1	Sonder	Special	0	Special	151
11	1	Sonder	Special	0	Special	153
12	1	Sonder	Special	0	Special	5

Buttons: Print, Save, Export, Quick connectors, No connectors, Screw connectors

The part is positioned in car line using Alufix 25. The software can export parts lists (see left), pictures (JPEG), data (IGES, STL, VRML) or CAD data (Catia, Unigraphics). For direct import of surface data a license is required for the corresponding format.

 Individual training is available in house or it can take place on customer's premises under agreement against surcharge

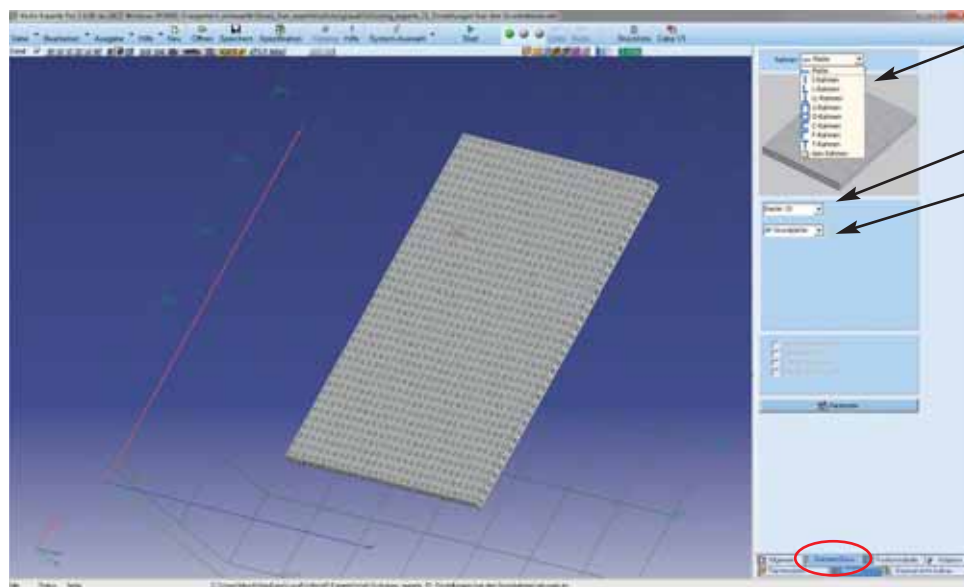


Different colouring shows the user in which modus the software currently is (definition/presentation). The parts marked orange have just been selected for editing, dark components are either already calculated or have been changed in a different programme module (inactive)



Alufix Experte 2016

Example: Settings for base frame:

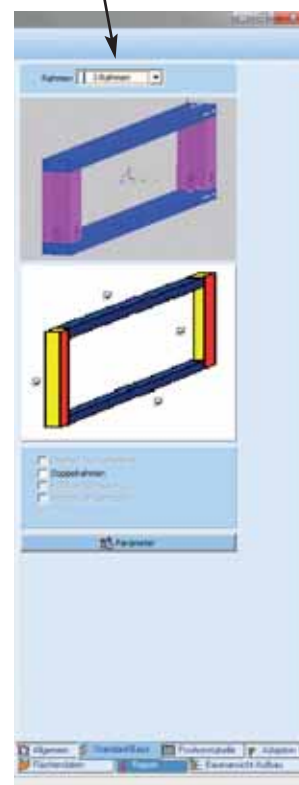


Selection of base plate or frame.

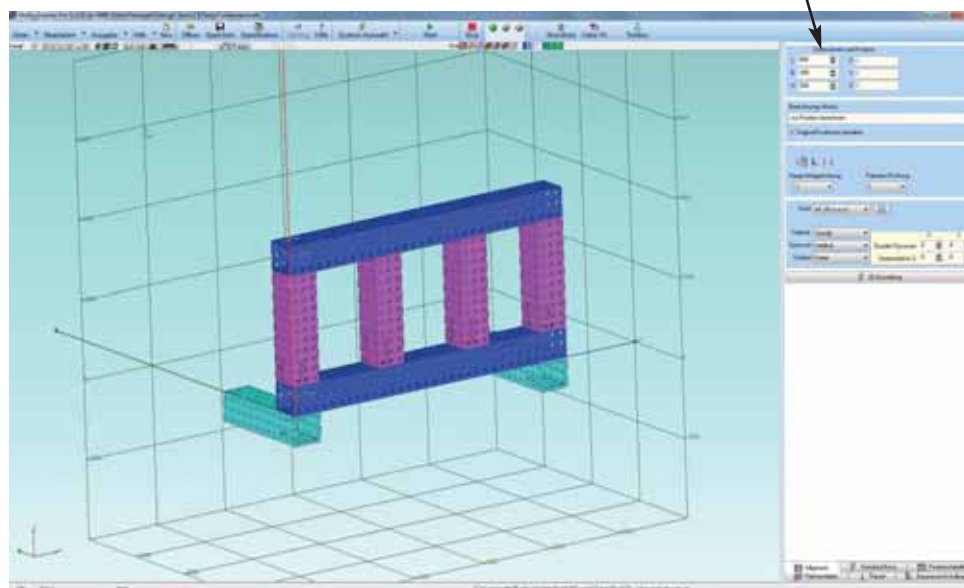
Selection of system size

Selection of plate

If frame was chosen, define here type of frame



Define here dimensions and orientation of base plate or frame

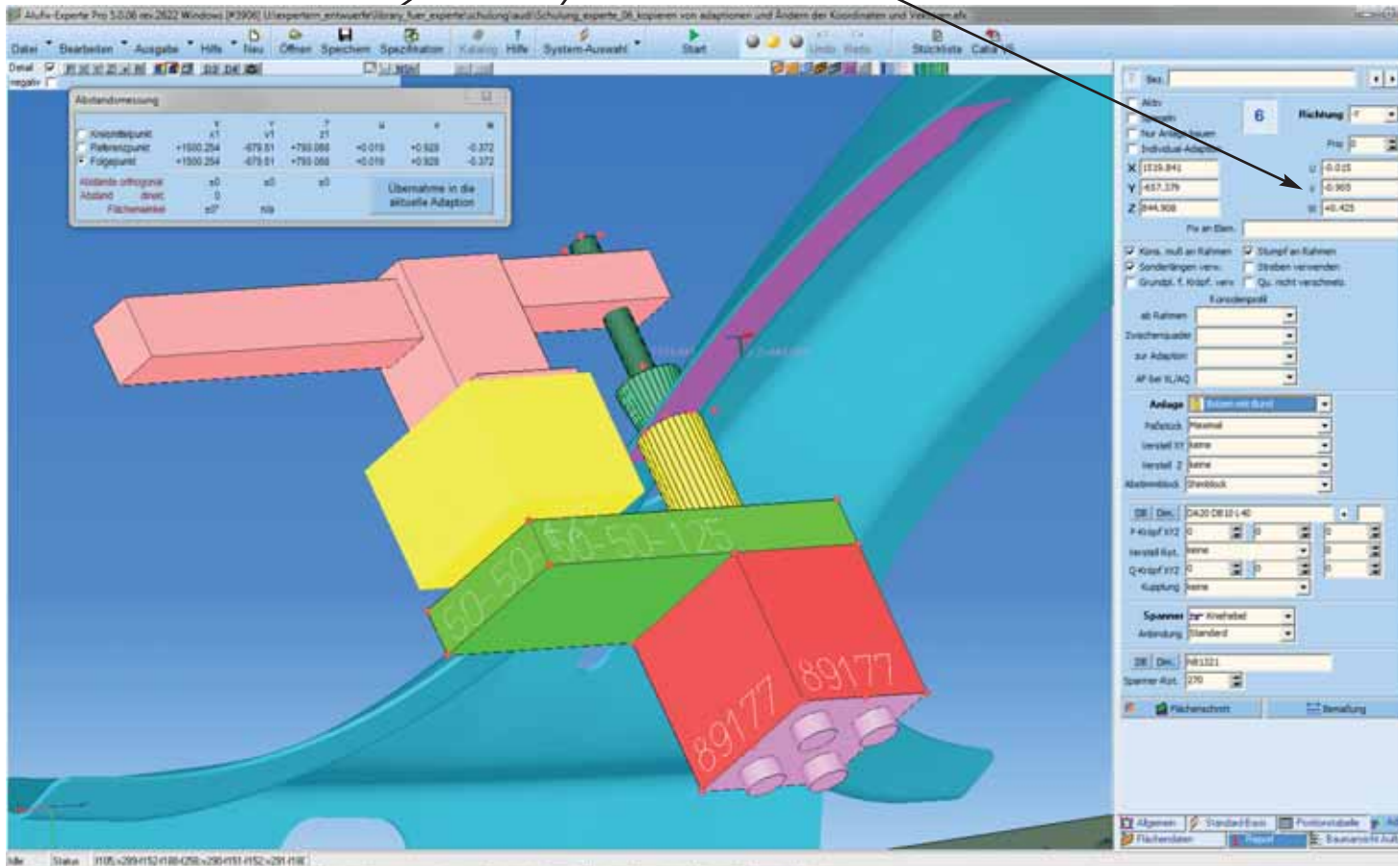


Example: Measuring contact point and transfer into column

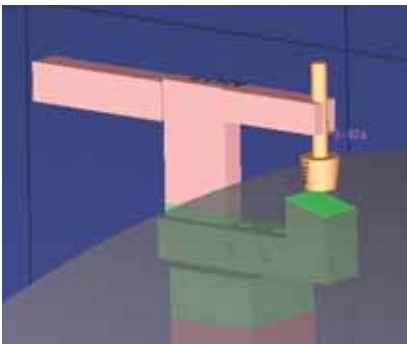
Measuring function

Transfer Mp

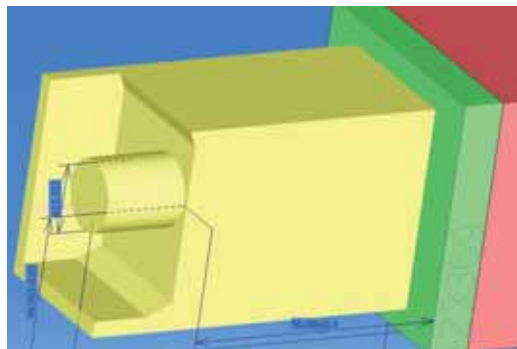
Change of vector



Complementary modules:



Complementary module: Surface cut for contour part



Complementary module: Adapter dimensioning

FIXMES

Alufix parts library for CAD systems

Fixmes is an Alufix parts library on a geometric basis for designing and documenting fixtures. Using Alufix standard elements fixtures can be built in a fraction of the time required previously. By designing the fixture on-screen expensive idle-times of the measuring machine are avoided.

The principle:

at the CAD workplace the user designs a desired fixture for workpiece machining or measuring using Alufix components. To do so he can use all parts available in the Fixmes library..

The selection is made according to one of the following features:

- Item No.
- Name
- Dimension

The parts of the fixture can be displayed as a wire model or solid. For a clearer image and an increase in speed individual planes or elements (holes) can be excluded. A printout of the finished fixture includes a parts list.

The advantages:

- Shorter design times
- Better prolonged use of measuring machine
- Timely preparation of fixture
- Documentation for later repeat assembly of fixture
- Short term changes can be carried out quickly
- No training necessary,
- CATIA or AutoCAD functions are utilised
- Also for off-line programming

83677 Fixmes Library für Catia V5

Elements of Alufix modular fixturing system are stored as *.catpart and *.catproduct files.

In addition a CATIA catalogue with parameterized parts is available on request. Elements can be selected according to different criteria such as item number, description or dimensions.

92562 Fixmes Library für Unigraphics NX5

Alufix elements stored with attachment *.prt

83676 Fixmes Library for AutoCAD

Alufix elements stored with attachment *.dwg

82157 Fixmes Library IGES Format

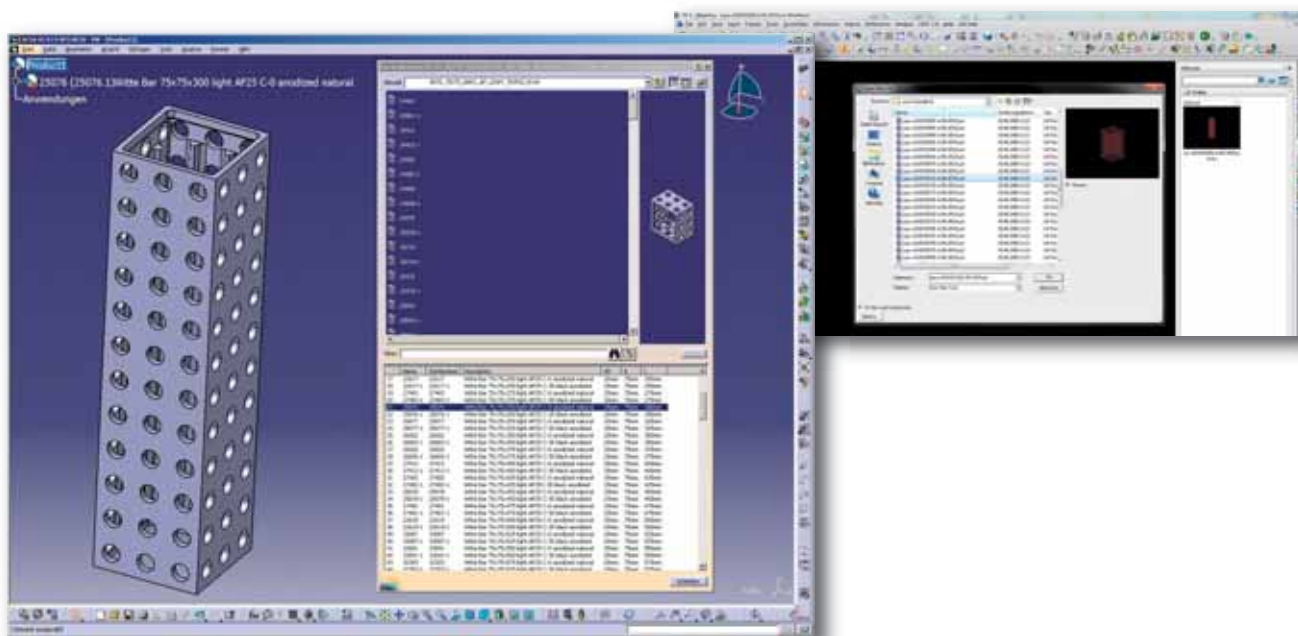
Alufix elements stored with attachment *.igs

82662 Fixmes Library STEP Format

Alufix elements stored with attachment *.stp.

In addition we also offer a download service from internet under: **www.partserver.de**

After registration Alufix components can be downloaded free of charge in all native or universal formats under this address.

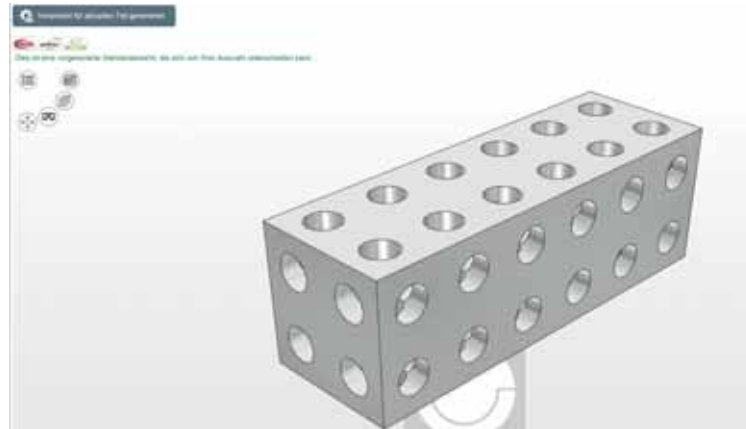


Modular Fixturing Systems – PDF Catalogue

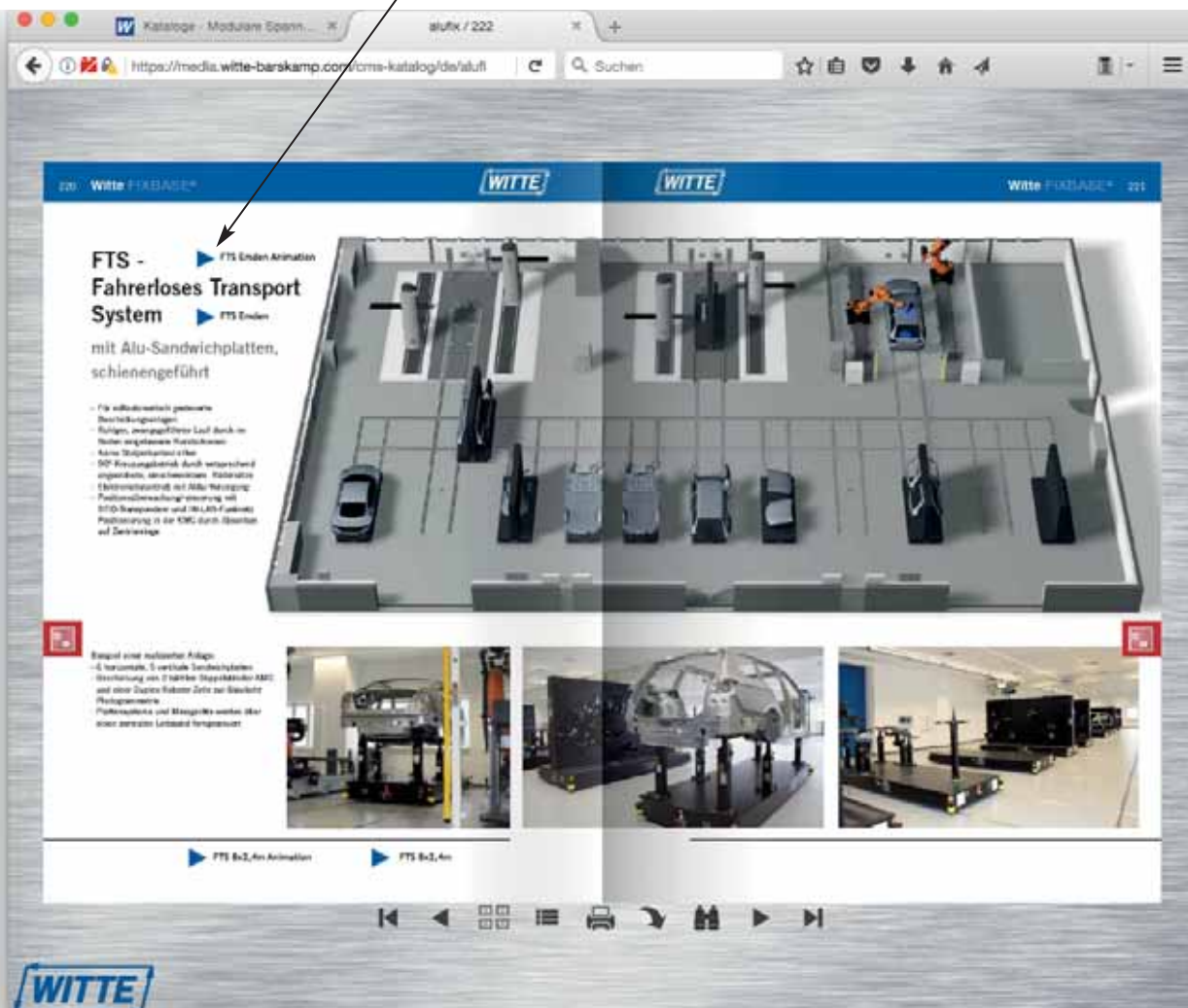
This catalogue can also be downloaded as PDF or is shown as an E-Book in internet (www.alufix.de).

The E-Book offers additional functions:

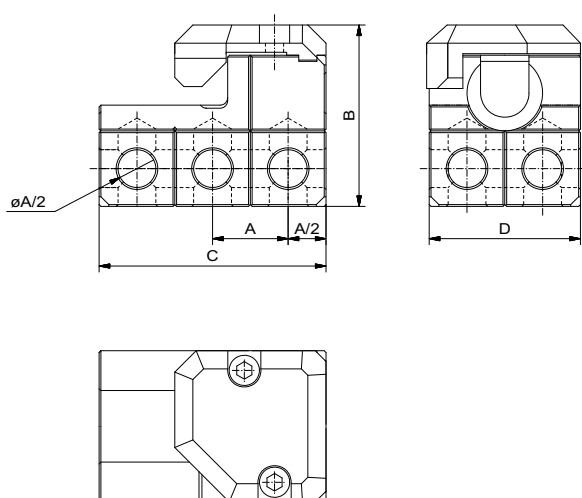
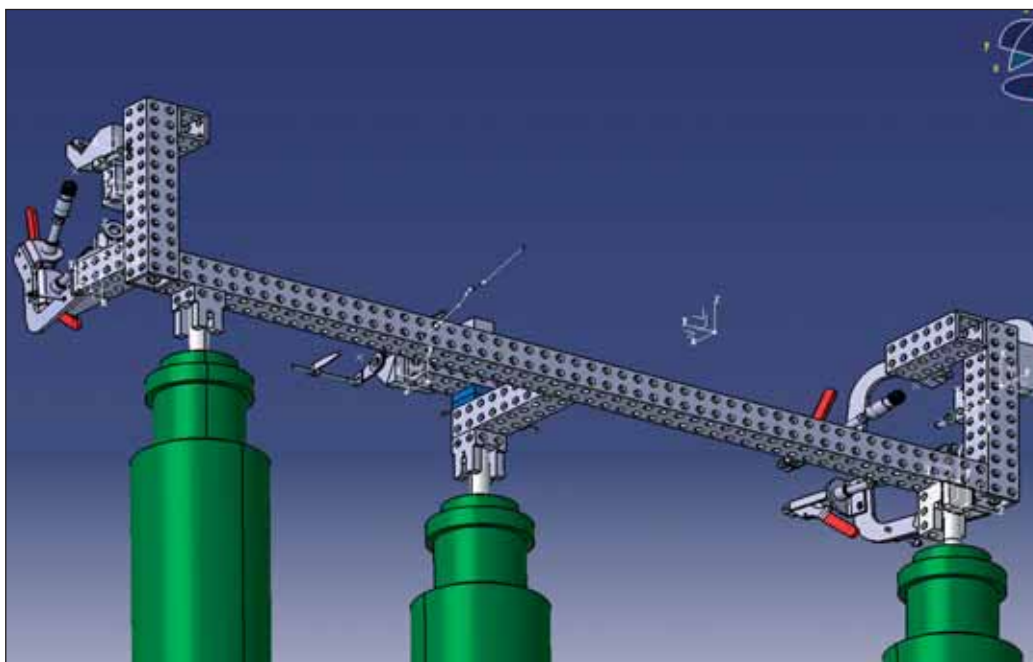
- Portrayal of items with a 3D viewer, just double click on item number.



- Videos (real or animation) by clicking on blue arrow.



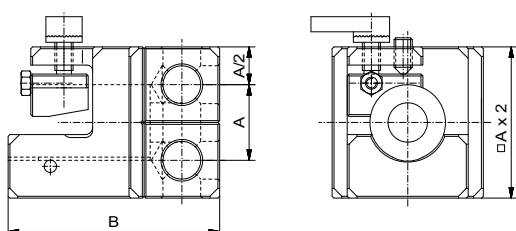
Further information under: <https://www.youtube.com/user/WitteGeraetebau>
<https://de.industryarena.com/witte>



DEA Five U-nique Adapter

V1

Nr.	A (AF)	B	C	D	
82416	16	55	80	48	250
82425	25	60	75	50	320
82440	40	80	120	80	1.040



DEA Five U-nique Adapter

V2

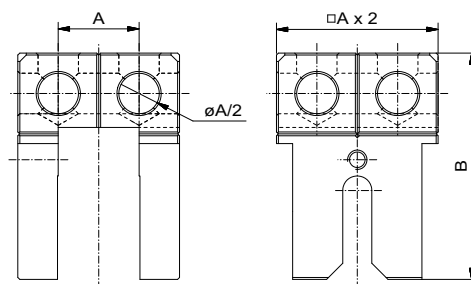
Nr.	A (AF)	A	
82454	25	70	260
82962	40	80	950



DEA Five U-nique Adapter

adjustable

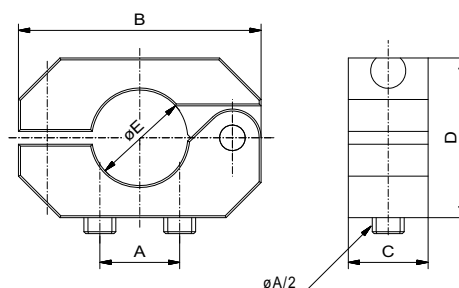
Nr.	A (AF)	B	
92190	25	70	220



DEA Five U-nique Column clamp

for Adapter V2

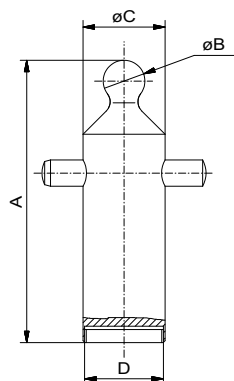
Nr.	A (AF)	B	C	D	E	
90638	25	76	25	50	30	180
90490	25	76	25	50	40	180
90492	40	76	25	65	30	190
95821	40	76	25	65	40	190



ALUFIX – DEA Five U-nique Adapter

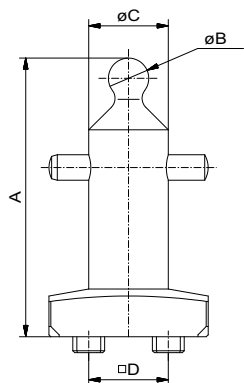
tip, with thread

Nr.	System	A	B	C	D	
82032	AF25	86	12,7	25	M24x1	145



ALUFIX CLASSIC elements can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request.

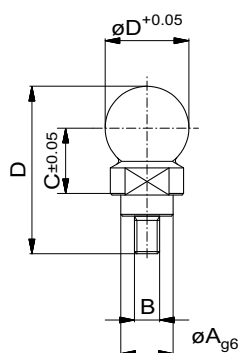
Other versions on request



ALUFIX – DEA Five U-nique Adapter

tip, with nub connection

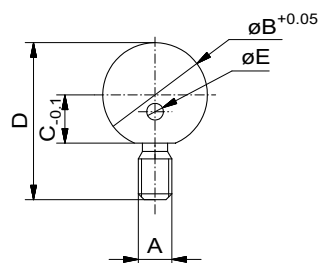
Nr.	System	A	B	C	D	
97439	AF25	87,5	12,5	25	25	210



Reference ball

for Alufix bore

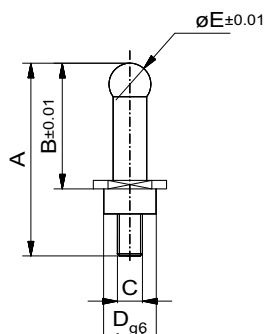
Nr.	A	B	C	D	$\varnothing D$	Material	
28403	12,5	M6	16	39	18	Aluminium	15
33035	12,5	M6	16	39	18	Steel	90
33516	20	M10	24	59,5	27	Aluminium	80
33517	20	M10	24	59,5	27	Steel	150
83117	25	M12	32	60,5	36	Aluminium	140
84344	25	M12	32	60,5	36	Steel	340



Reference ball

with thread

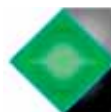
Nr.	A	B	C	D	E	Material	
34150	M8	25	11,5	37,5	4	Steel	64



Support ball

Nr.	A	B	C	D	E	Material	
25130	46	30	M6	12,5	10	Steel	24

Preference item:
Articles with green diamond →
are available ex stock!



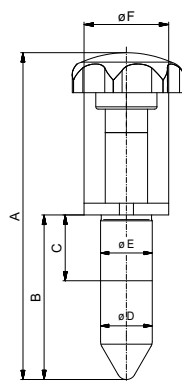
→ Article colour anodized natural

→ Article colour anodized black

Positioning pin

for plate or bracket with positioning or excenter sleeves

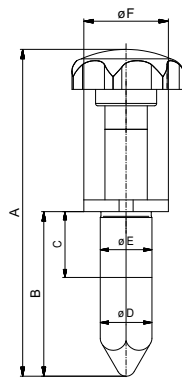
Nr.	A	B	C	D	E	F	
92213	139	70	28	22 ^{-0,1} _{-0,2}	22 _{g6}	36	135
92214	144	75	-	-	20 ^{-0,03} _{-0,05}	49	145
92215	139	70	28	22 ^{-0,1} _{-0,2}	22 _{g6}	36	180
92216	144	75	-	-	22 _{g6}	49	145



Positioning pin, sword-shaped

for plate or bracket with positioning or excenter sleeves

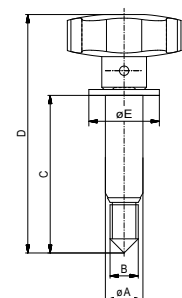
Nr.	A	B	C	D	E	F	
92217	139	70	28	22 ^{-0,1} _{-0,2}	22 _{g6}	36	135
92218	144	75	28	-	20 _{-0,01}	49	145
92219	139	70	25	22 ^{-0,1} _{-0,2}	22 _{g6}	36	180
92220	144	50	28	-	22 _{g6}	49	95
92221	144	75	28	-	22 _{g6}	49	145



Fitting screw

for plate or bracket with with positioning or excenter sleeves

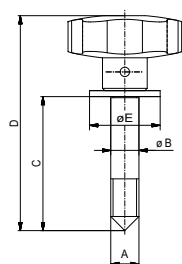
Nr.	A	B	C	D	E		
82342	ø16h6	M12	67	102	30		125
82225	ø16h6	M12	79,5	114	30		145
92488	ø15,98 _{-0,02}	M12	67	102	30		125
92489	ø15,98 _{-0,02}	M12	79,5	114	30		145



Clamp screw

for plate or bracket with positioning or excenter sleeves

Nr.	A	B	C	D	E		
82343	M12	12	67	102	30		110
82341	M12	12	79,5	114	30		140



ALUFIX CLASSIC elements can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request.

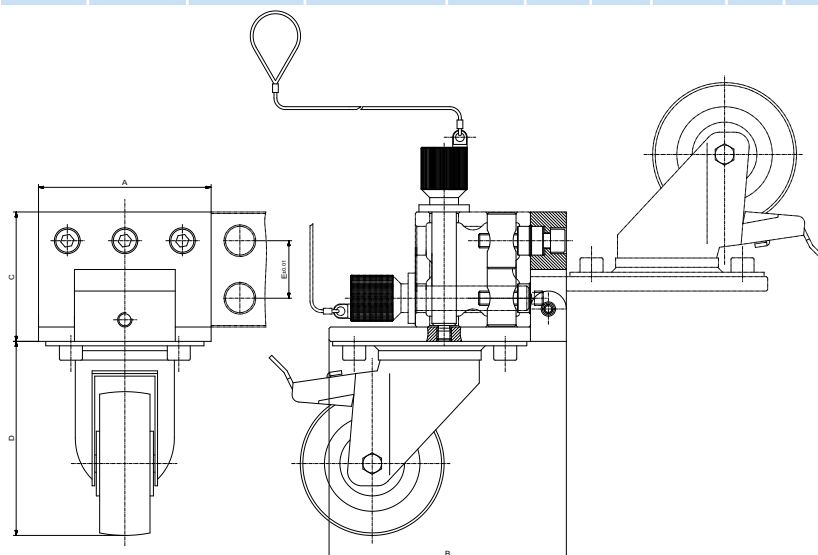
Other versions on request



Castor, fold up

single

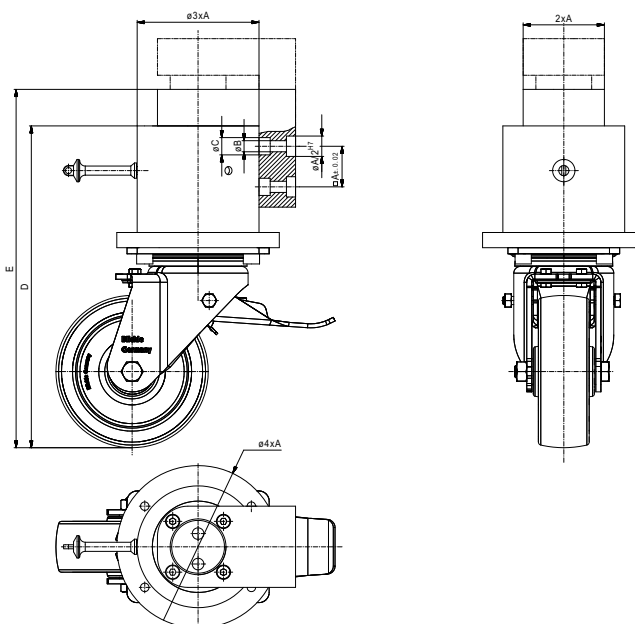
Nr.	System	Type	For bar	A	B	C	D	E	g
93315	AF 40	steerable	80x80	120	165	90	135	10	1.600
93399	AF 40	fixed	80x80	120	165	90	135	10	1.600
92627	AF 40	steerable	120x120	120	165	130	135	10	2.200
92628	AF 40	fixed	120x120	120	165	130	135	10	2.200
92593	AF 50	steerable	100x100	150	165	110	135	10	2.750
92594	AF 50	fixed	100x100	150	165	110	135	10	2.750



Castor Set

with hydraulic height adjustment.
Set of four including pump.

Nr.	A	B	C	D	E	g
281955	40	11	17	317	353	20.000

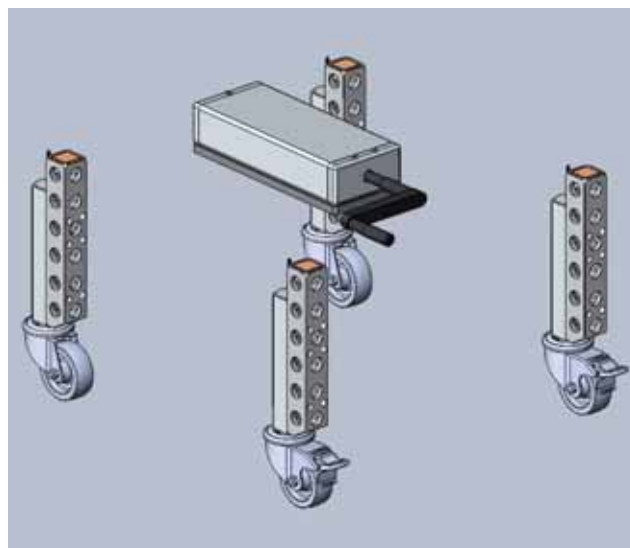
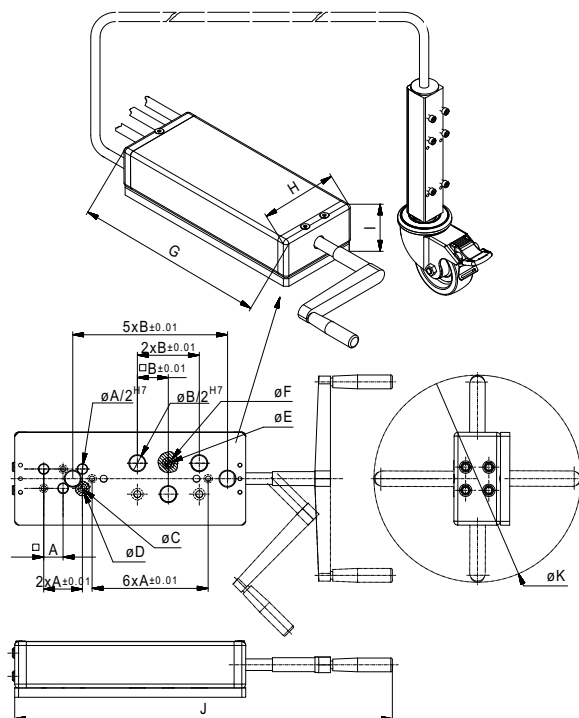


i An hydraulic foot pump #16539 is included in supply.
Connection material, which has to be configured for fixture,
is available on request

Castor Set for AF 25 and AF40

4 steerable castors with hydraulic height adjustment
Manually operated pump with crank handle

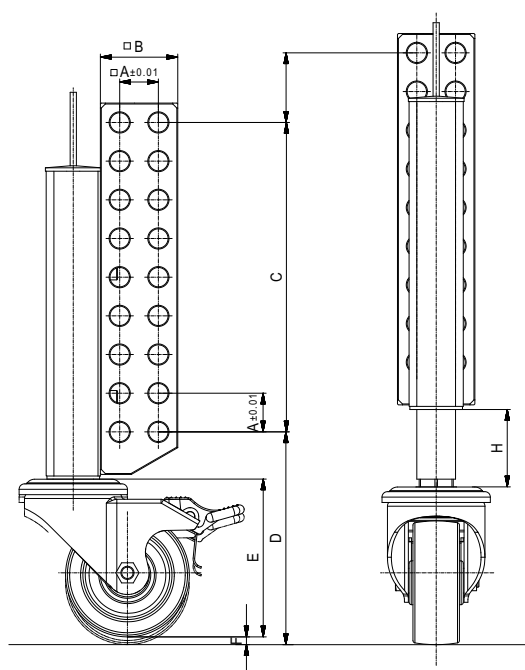
Nr.	A	B	C	D	E	F	G	H	I	J	K	kg
282479	25	40	6,6	11	9	15	299	120	73	488	270	13,8



The castor set is for fixtures up to a weight of 350kg.
Lift is max 150mm. 3m of pre-configured hydraulic connection material per castor is included with supply.
Profiles shown below are recommended for connection

Profiles AF for castors for hydraulic height adjustment

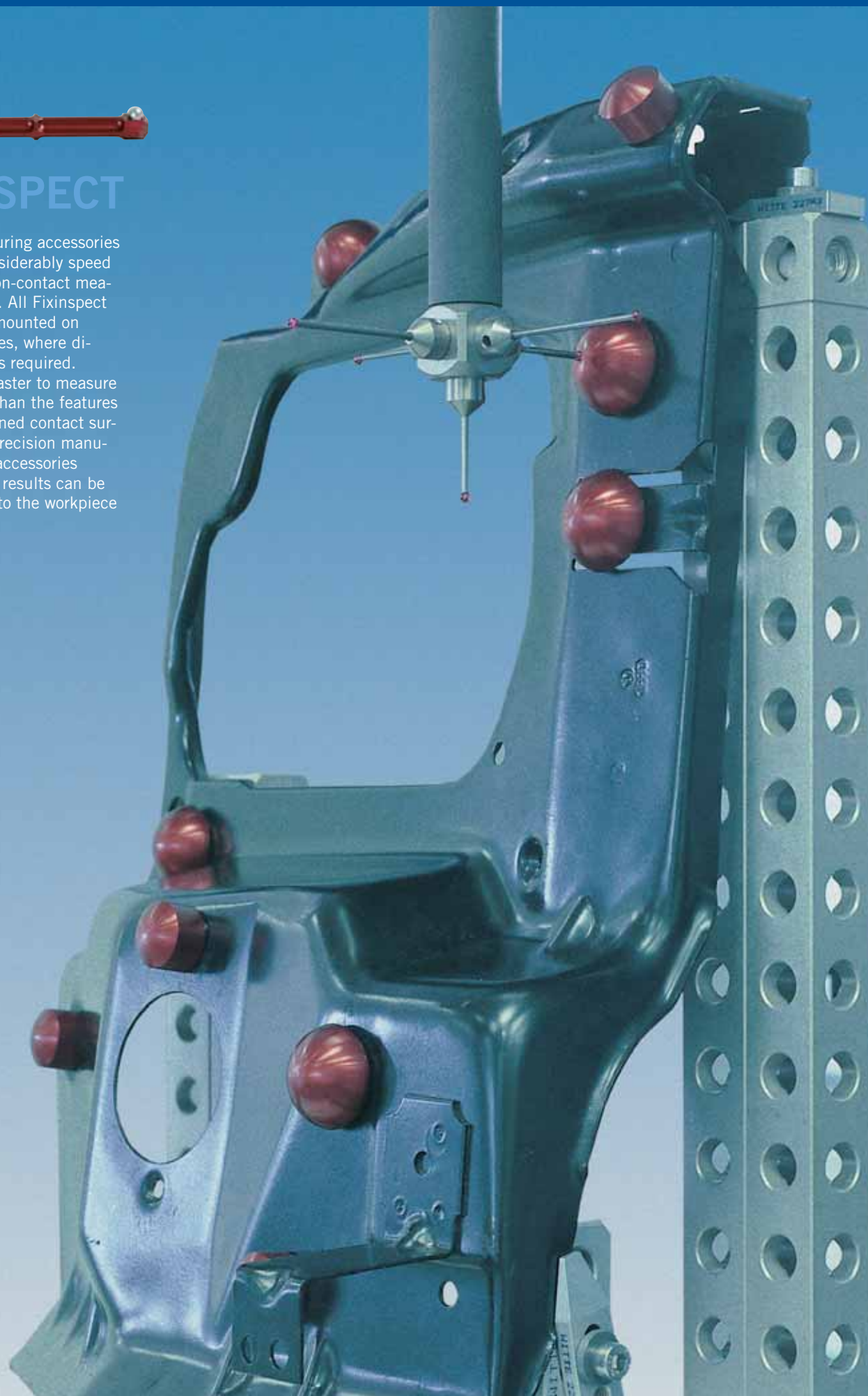
Nr.	A(AF)	B	C	D	E	F	G	H	g
310548	25	50	200	137	102	5	45	50	535
310549	40	40	200	140	102	5	45	50	445





FIXINSPECT

Fixinspect measuring accessories simplify and considerably speed up tactile and non-contact measuring processes. All Fixinspect accessories are mounted on workpiece features, where dimensional data is required. It is easier and faster to measure the accessories than the features themselves. Defined contact surfaces and high-precision manufacturing of the accessories mean measuring results can be calculated back to the workpiece feature location.



FIXINSPECT

Measuring accessory
for tactile measuring



FIXINSPECT LT

Measuring accessory
for Lasertracker



FIXINSPECT PG

Measuring accessory
for photogrammetry systems



FIXINSPECT KR

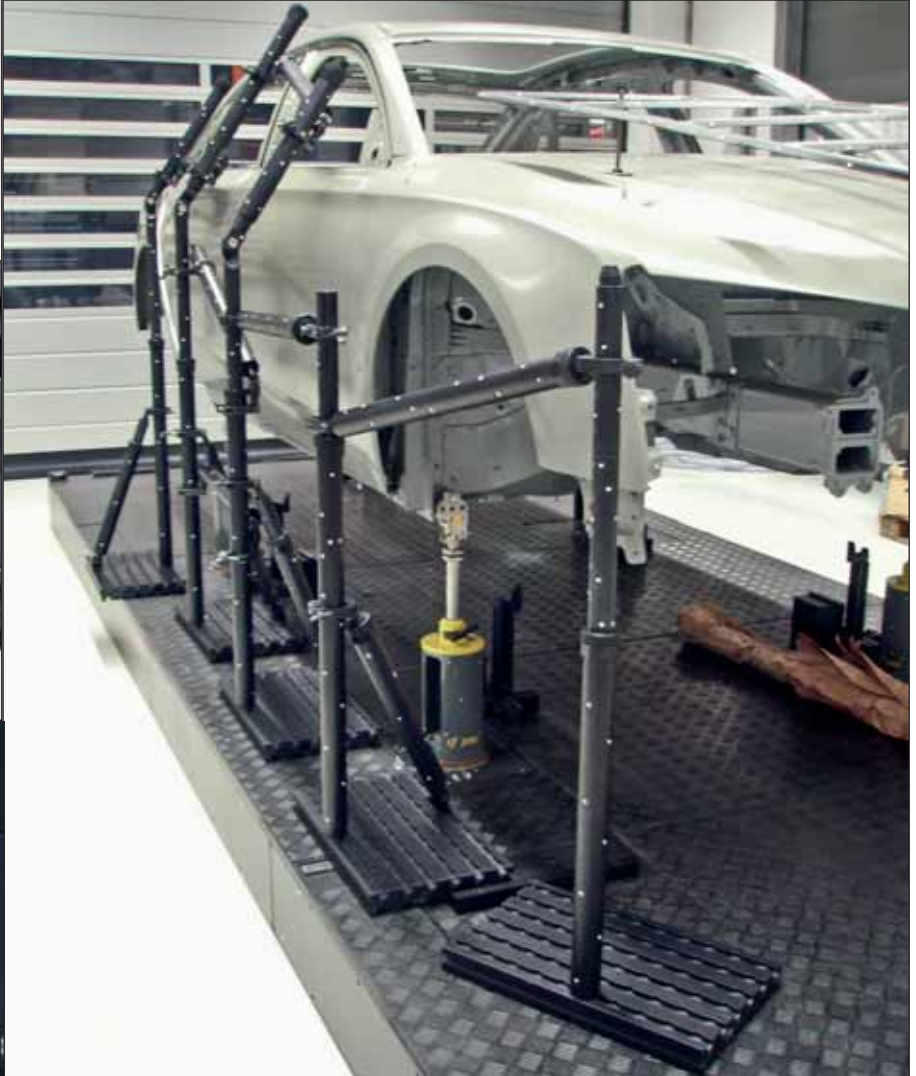
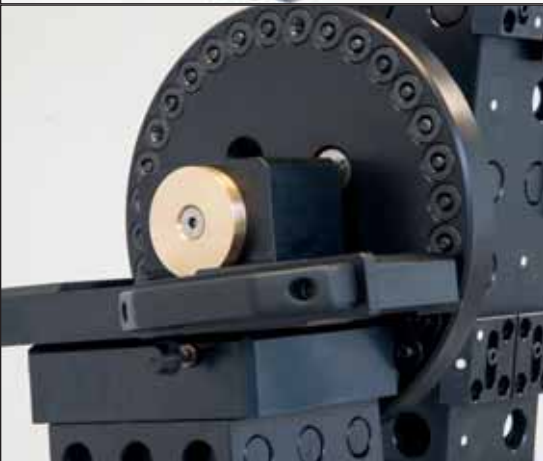
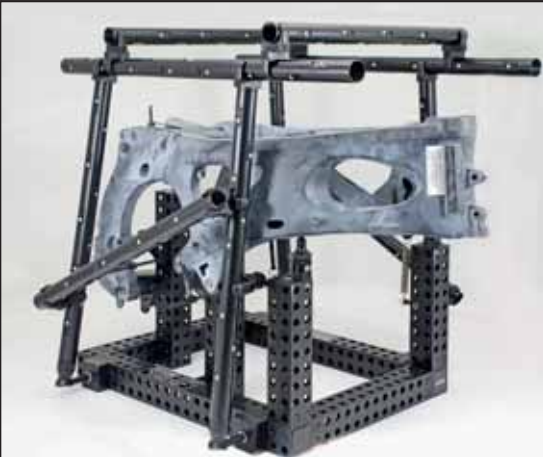
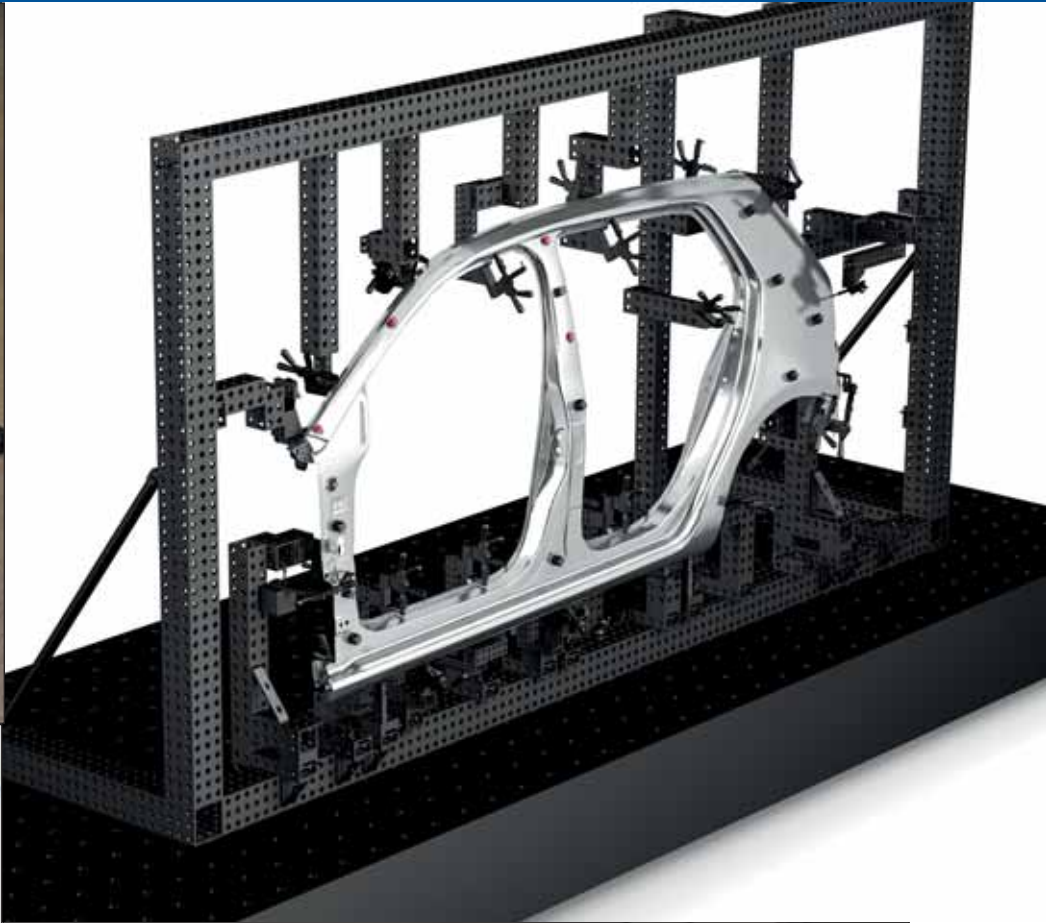
Measuring accessory
for laser tracker





FIXINSPECT+ALUFIX







ALUFIX XS

Fixturing system for small parts

For improved productivity

Measuring fixtures are prepared away from measuring equipment

Flexible and economical modular system

Quick and repeatable fixture set up with consistent precision, absolutely compatible to all other ALUFIX systems.

High precision and quality

CNC- milled elements made of high tensile aluminium or acryl ensure great accuracy and light weight.



Unlimited setting and adaptation possibilities. A multitude of top sections and adapters allow reliable, gentle fixturing of different workpieces.



MEGALU

Megalu is an extruded profile with medium tensile strength (220N/mm²), through holes and is divided by chamfer grooves.

The profile holes are 9,5mm in diameter (for Helicoil inserts M8, direct thread M10 or as access hole for screws M8).

Profiles are available in three versions:

L 64x64, L80x80, □80x80.

Megalu connections fulfill high demands on torsion and bending.

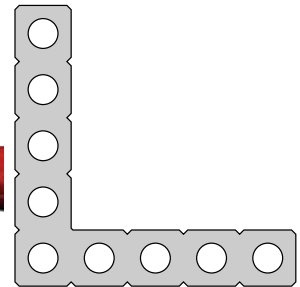
Megalu was designed to be used throughout the whole life of a fixture to ensure stable, repeatable work piece positioning.

Megalu is intended as a dedicated solution so fixture changes are not as easy or convenient as with other systems such as ALUFIX Classic.

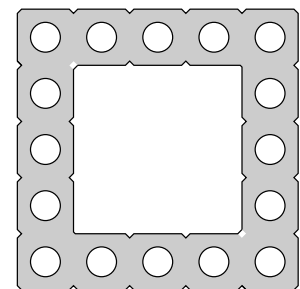
Megalu is a simple yet accurate and economical fixturing system.

This system
is no longer part of
our main range:

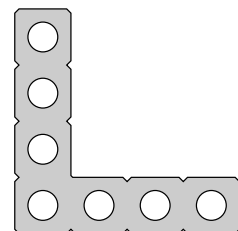
Only
available on
request!



MEGALU profile
L 80 x 80 mm

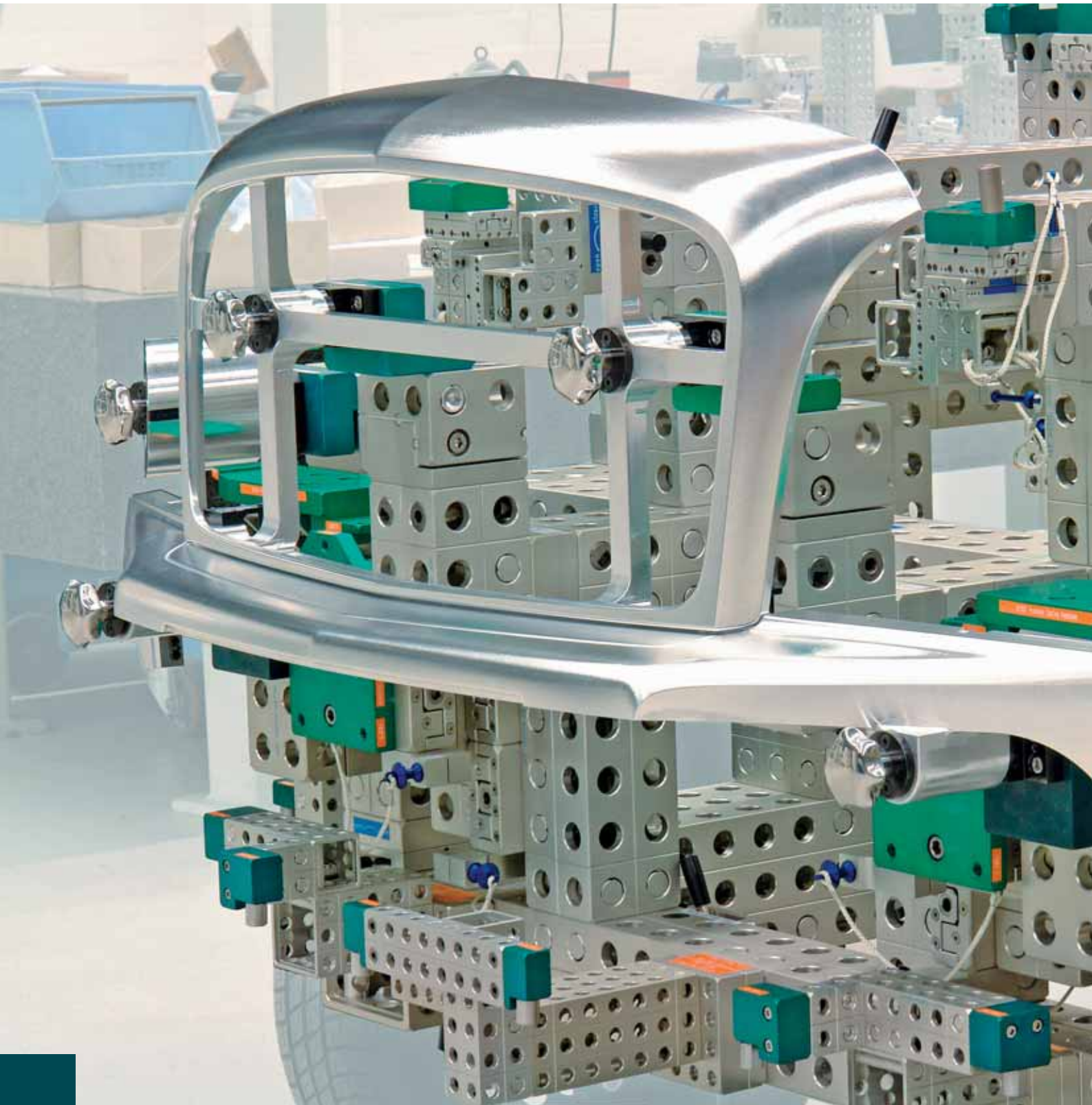


MEGALU profile
□ 80 x 80 mm

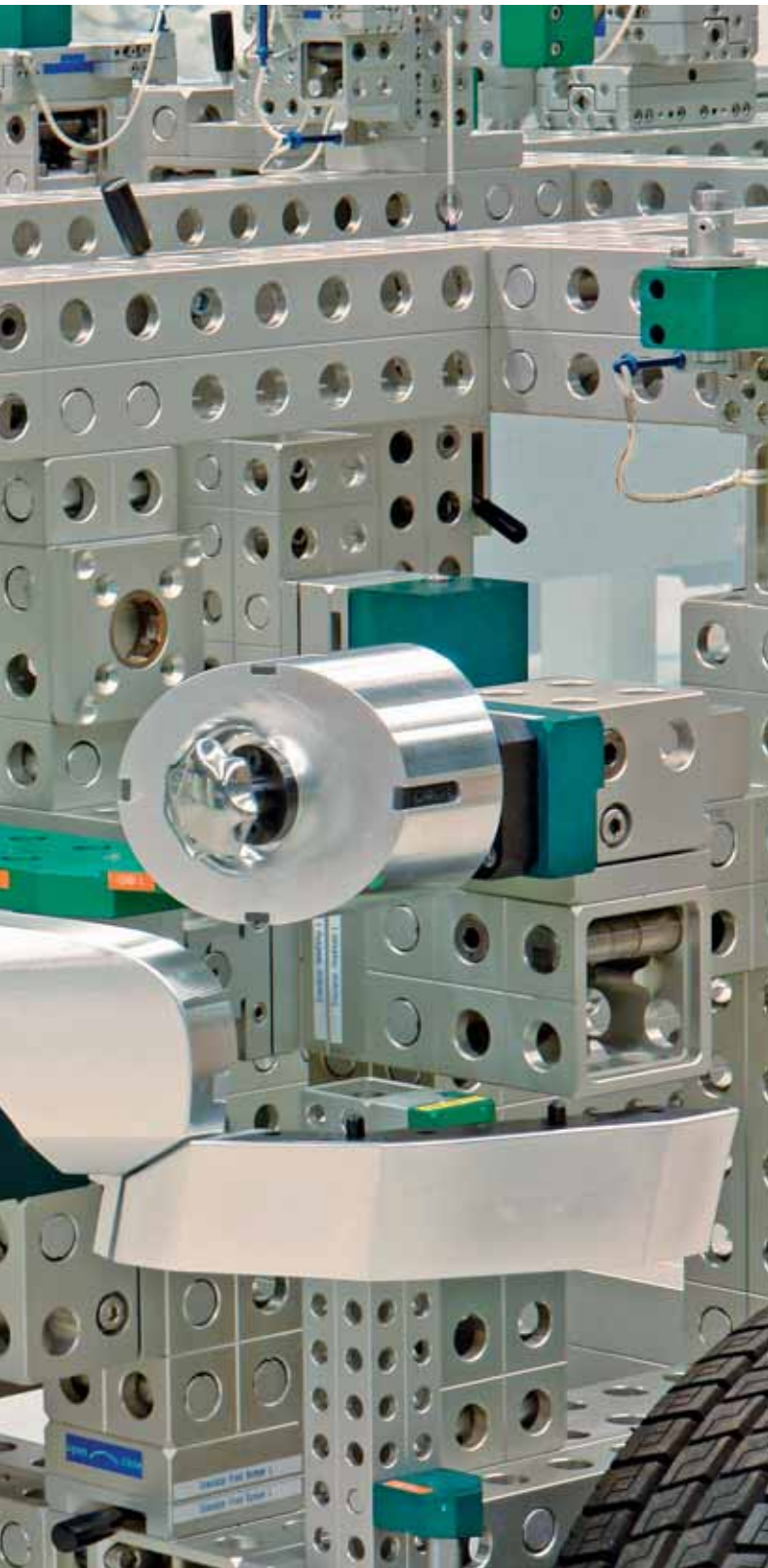


MEGALU profile
L 64 x 64 mm





Alufix outer meisterbock in combination with simulators for early part alignment, the analysis of which lead to improved quality of auto components.



Meisterbocks, Outline gauges, Cubings

Not only fixtures for single parts or assemblies can be assembled from Alufix profiles and components but all kinds of frames and fixtures up to the size of an original vehicle.

Meisterbocks

Outer meisterbocks are used for mounting outer skin parts or groups of any production step. Structures can be made of different sections or system sizes, to support different derivatives or vehicle families.

Inner meisterbocks are made to analyse different interior parts. Part specific machined contours simulate parts or the original body-in-white parts can be mounted.

Fuegemeisterbocks (match metal fixtures) are used to position or match sub-groups, sidepanels, front end with each other. Joining of single parts to a complete vehicle is easy with a modular fixturing system. This method of analysis helps early recognition of problem areas, enabling cost and time savings in vehicle development process.

Outline gauges

Outline gauges help to check parts in relation to neighbouring parts which are represented by outline 3D contours/strike or stripe models. The contours can also be removed from the gauge and added to measuring fixtures using quick change couplings.

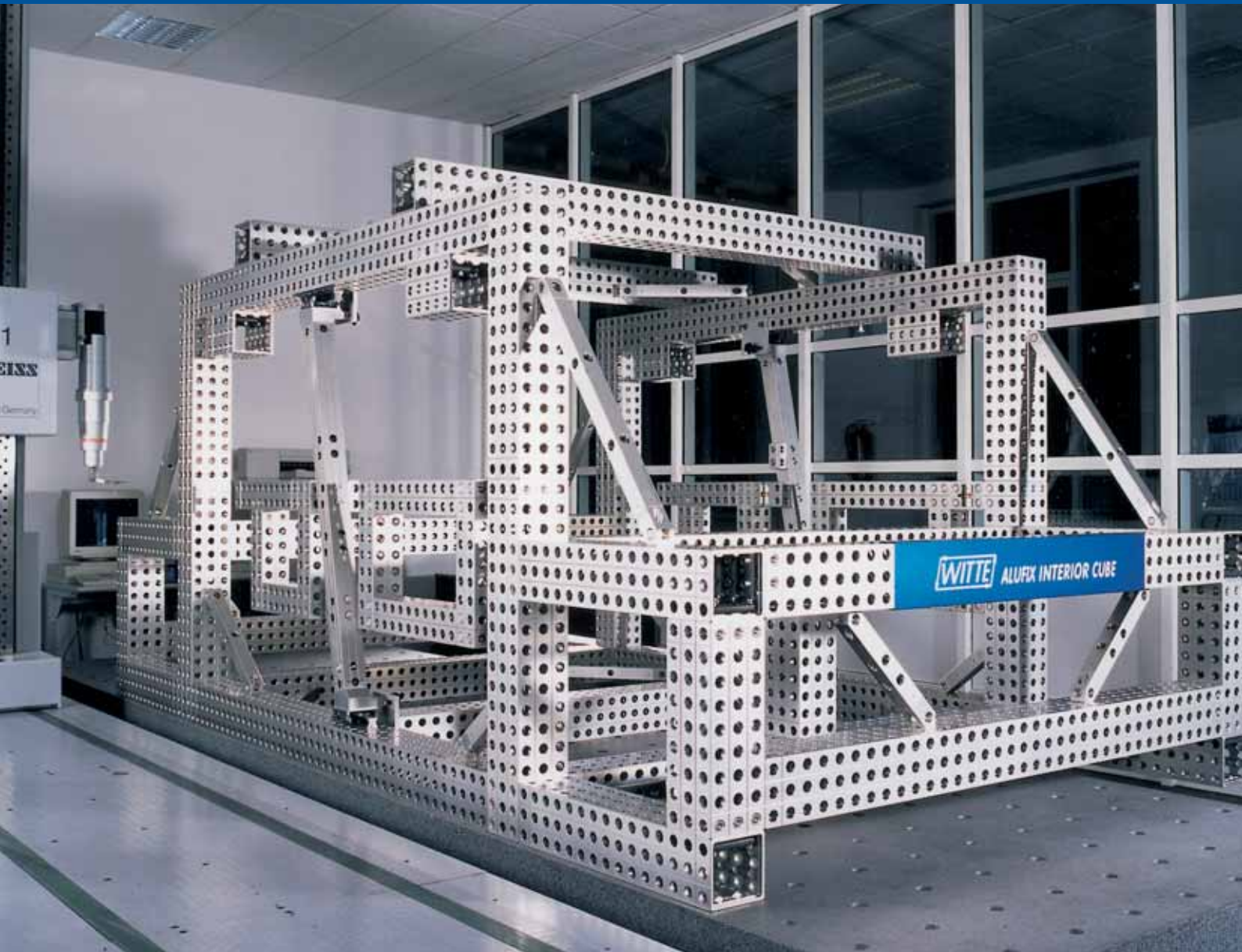
Cubings

Alufix basic frames are an ideal base for cubing elements because of their rigidity, accuracy and modularity. Cubing base frames for front or rear ends, doors or complete cubings. Because of its reusability and modularity Alufix is pre-destined as a platform for inner cubings, area sections or complete vehicle cubings.

Outline gauge

for 4 door vehicle mounted on horizontal and vertical sandwich plate combination. B pillar can be rotated out for single door check.





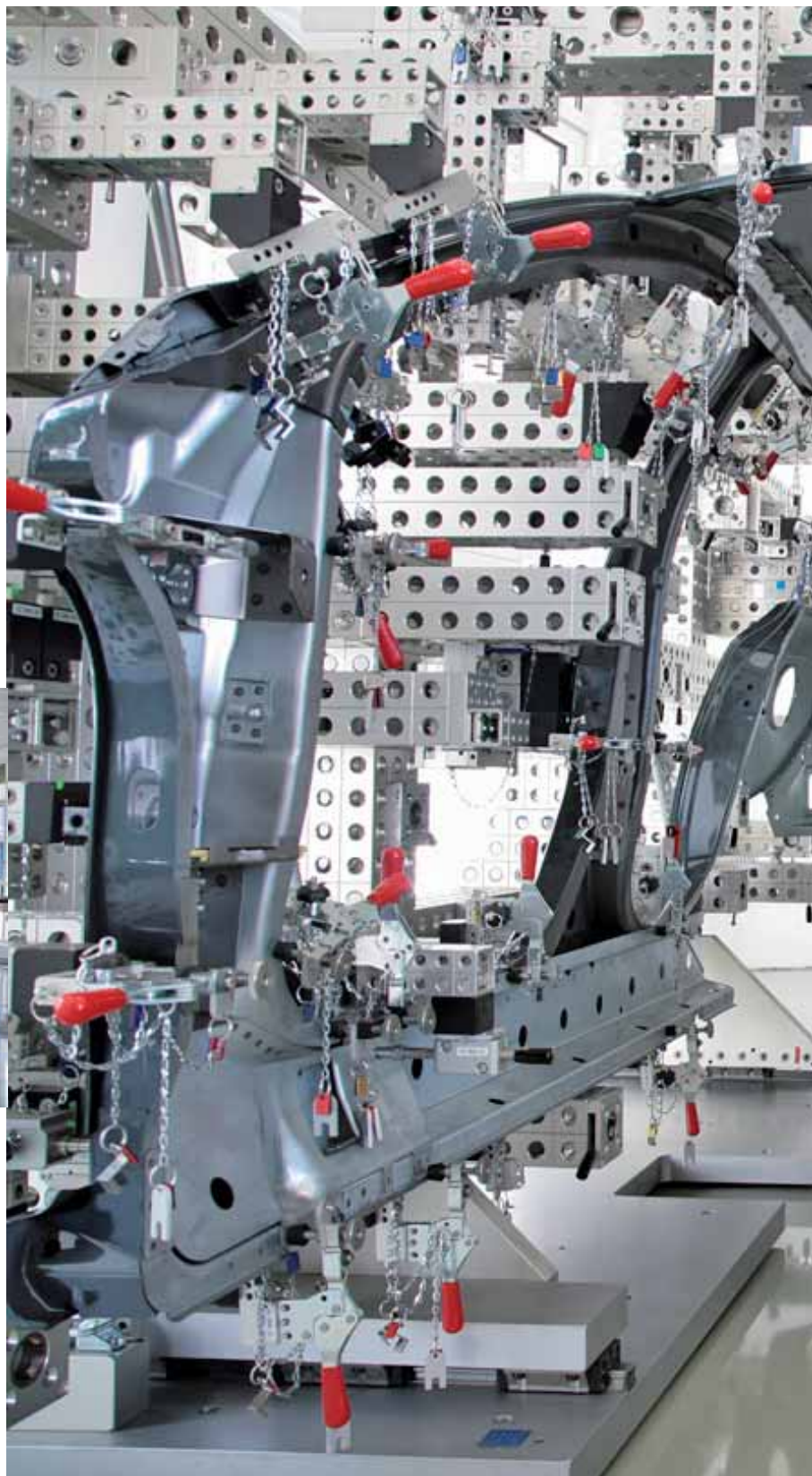
Inner meisterbock

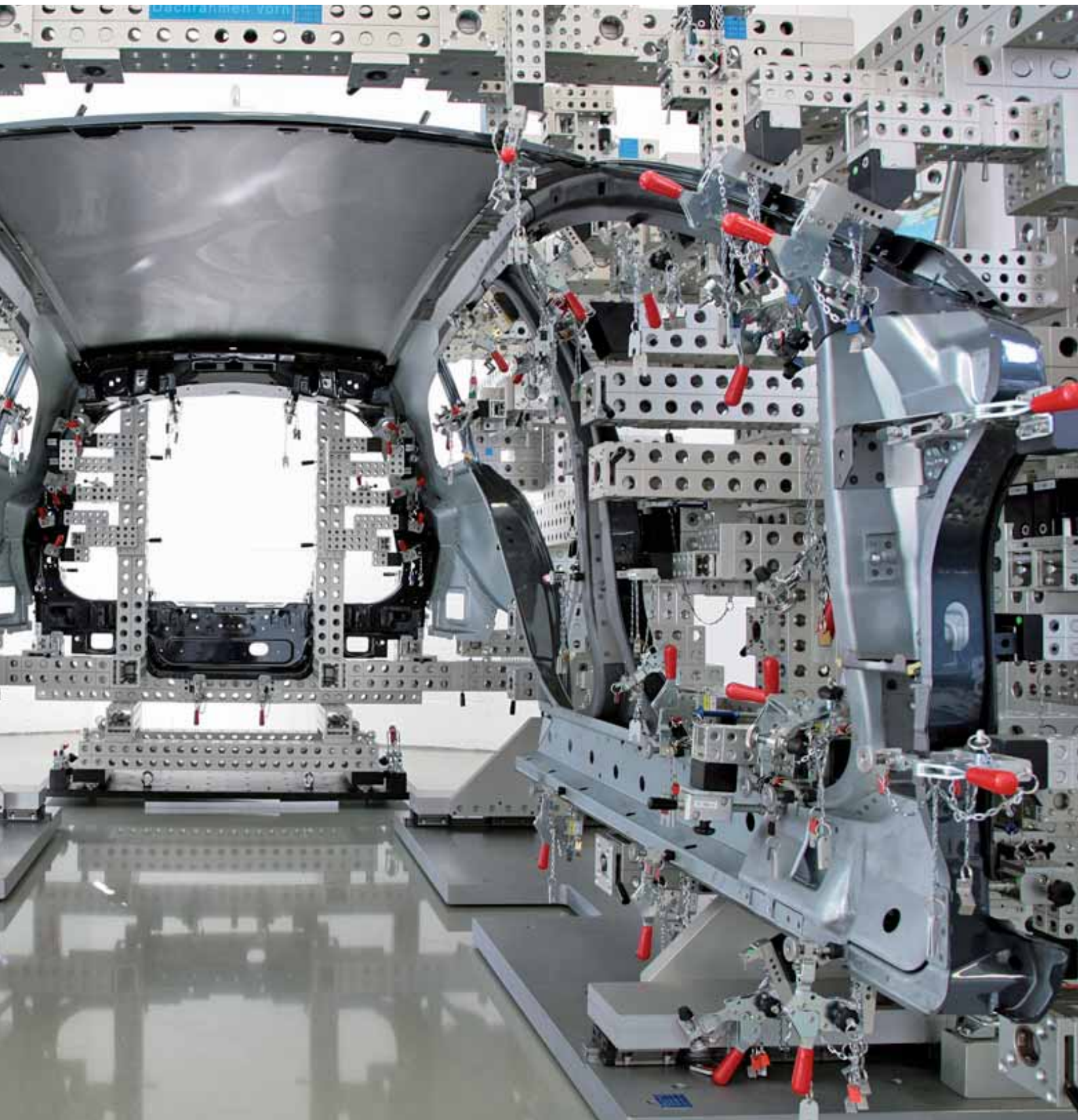
with movable support strut
for B-pillar enabling use for 2
and 4 door models.

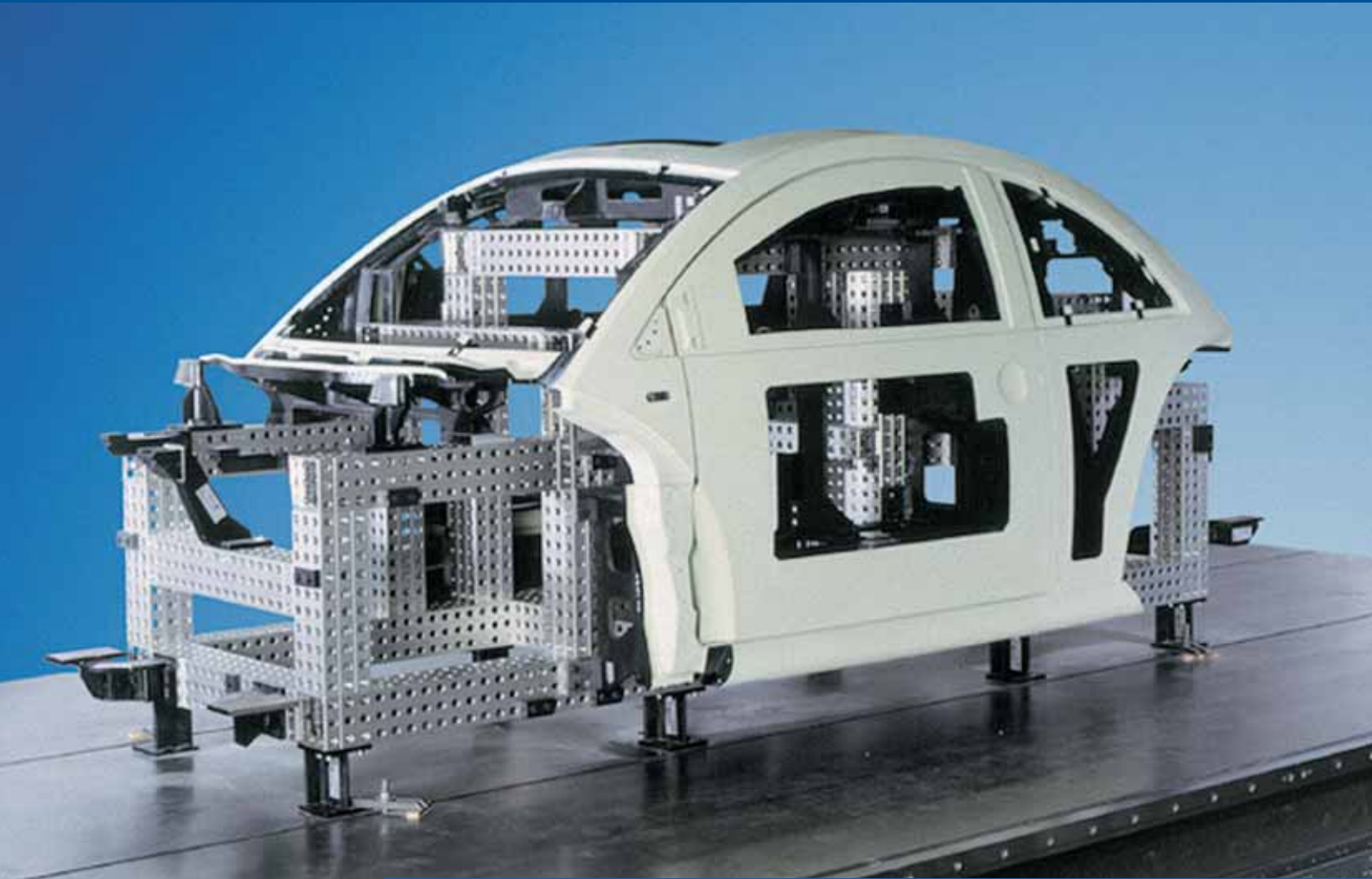


Fuegemeisterbock (match metal fixture)

For passenger vehicle comprising independent match metal floor, left and right side, rear wall fixtures as well as cross member supports for roof reinforcement. Floor group is joined on floor FMB, sidepanels are joined on separate side FMBs. These three units are then joined and enable mounting of roof reinforcements and roof.





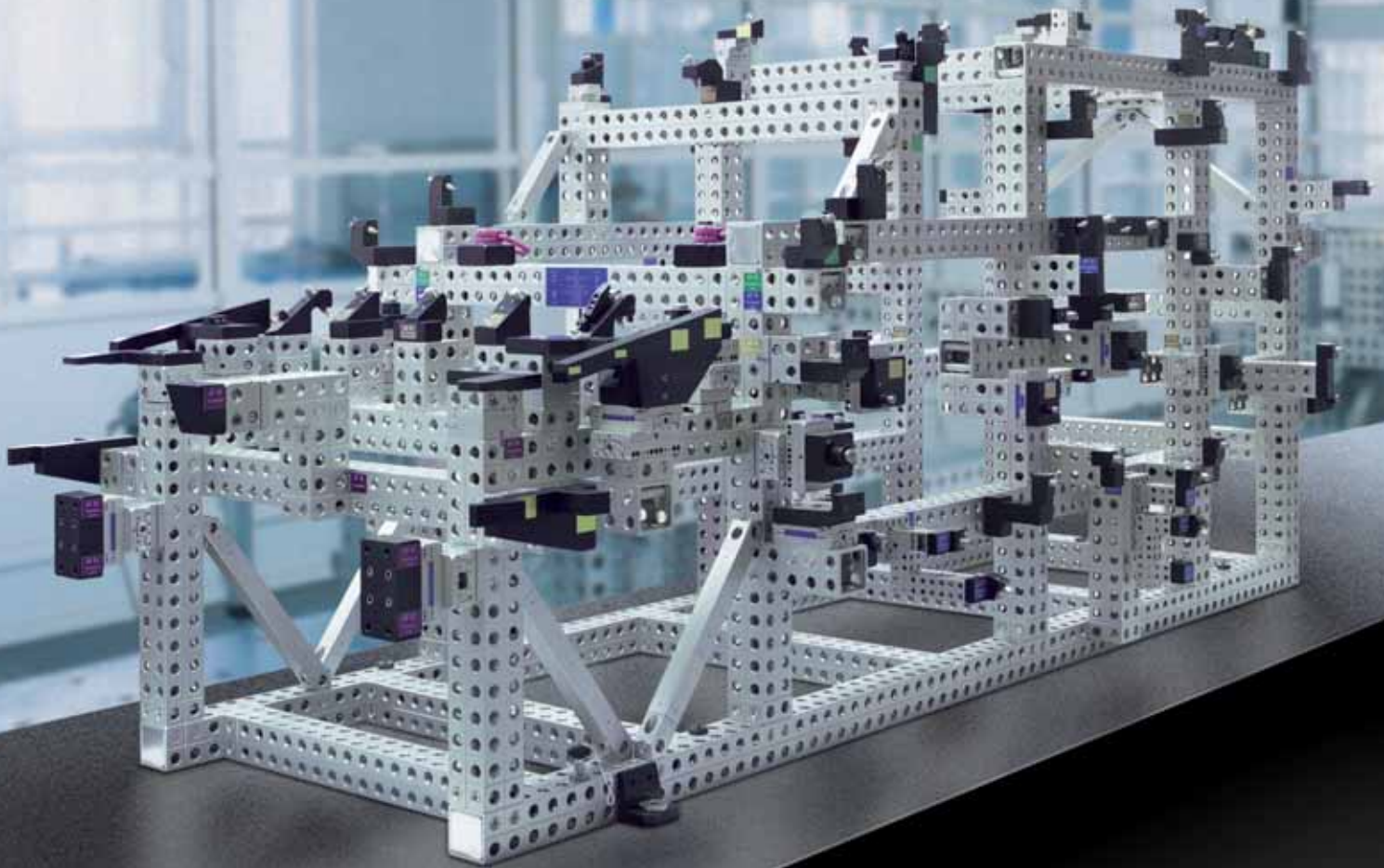


Cubings

Top:
Outer cubing frame
showing some
parts mounted

Right:
Inner cubing frame
showing some
parts mounted



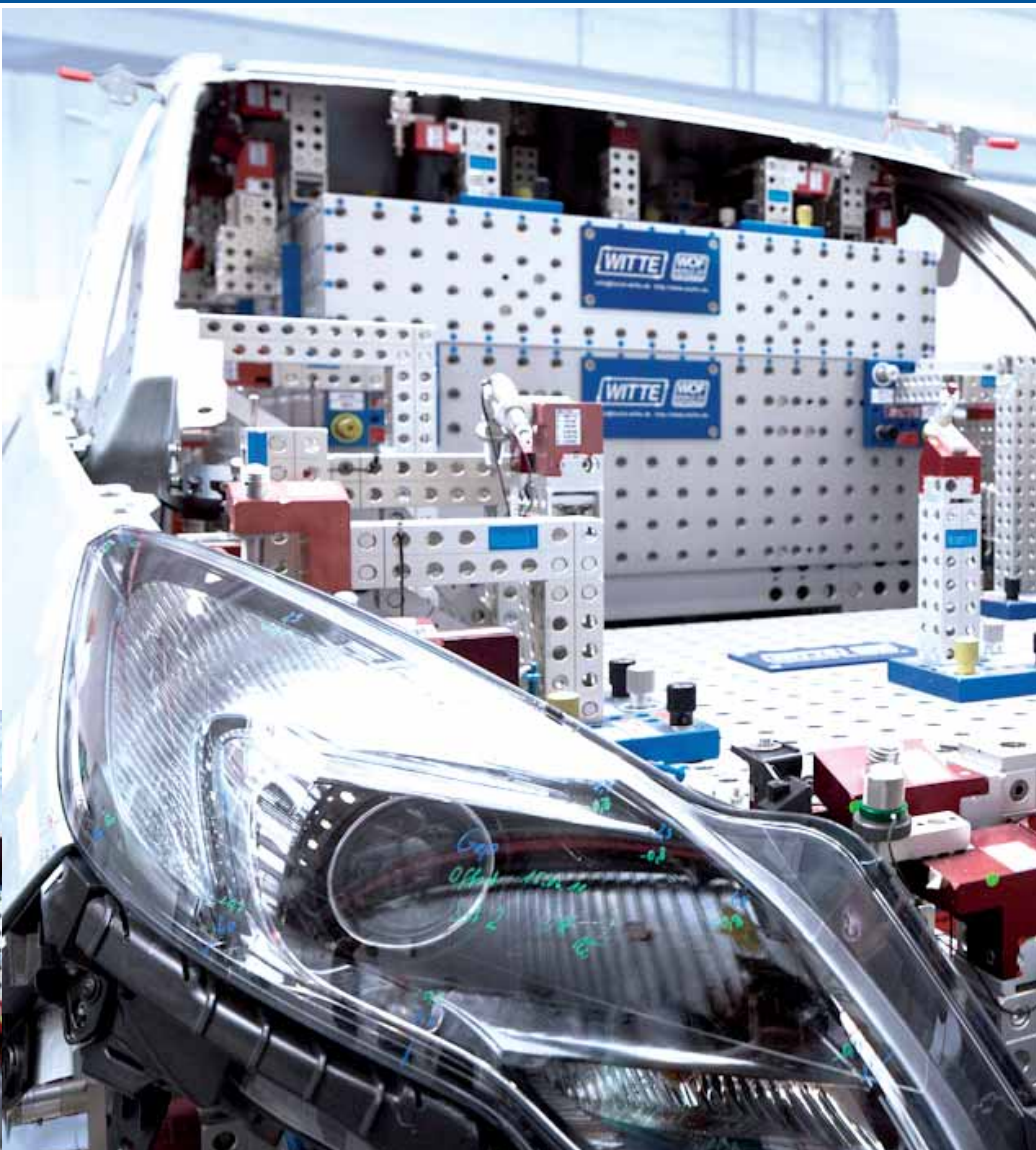
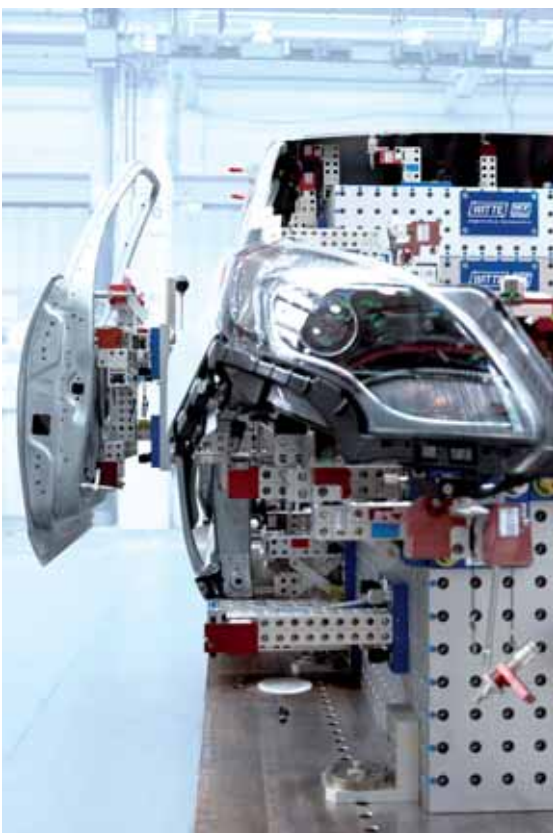


Outer meisterbock

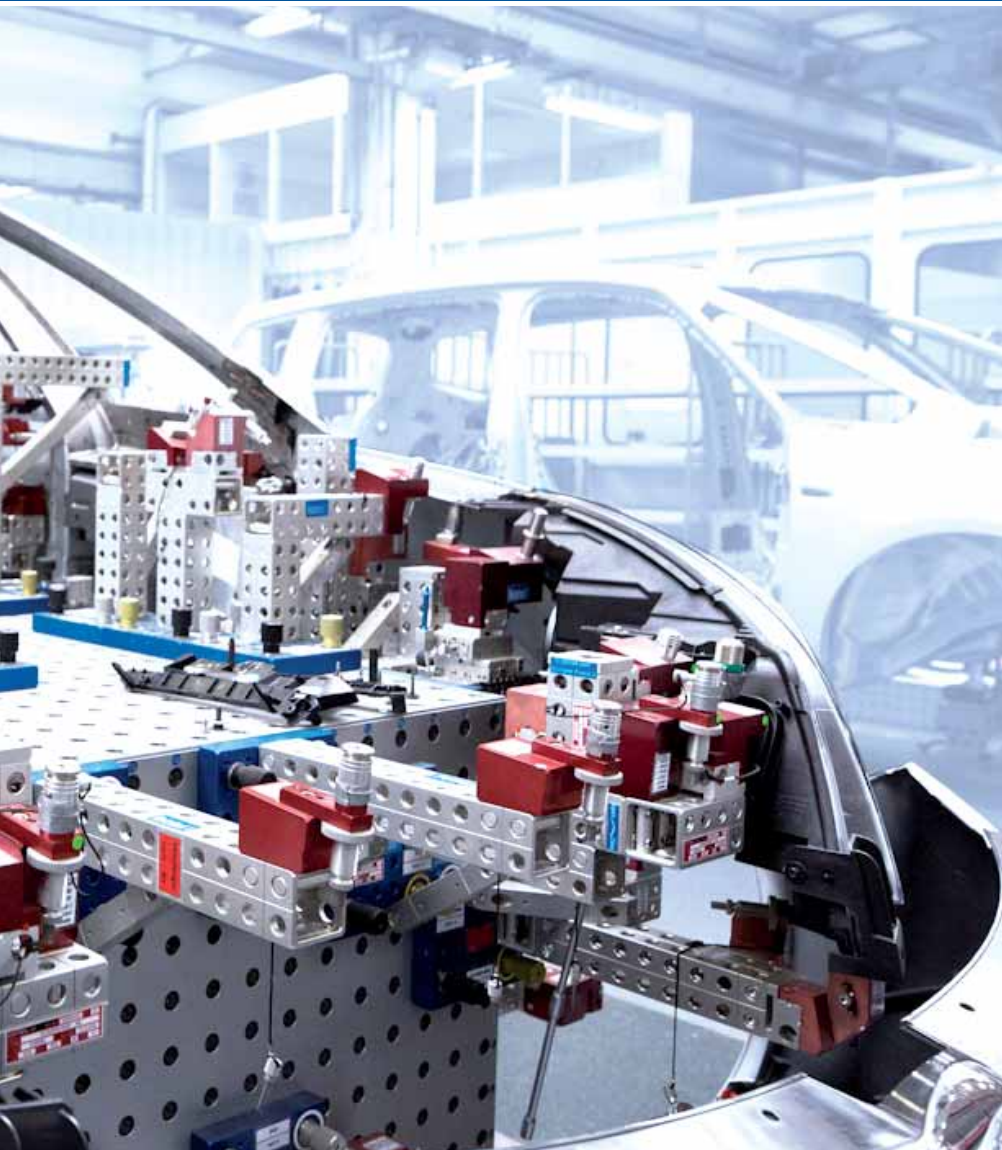
showing black specially designed and
manufactured contact surfaces

FXB-Cubing

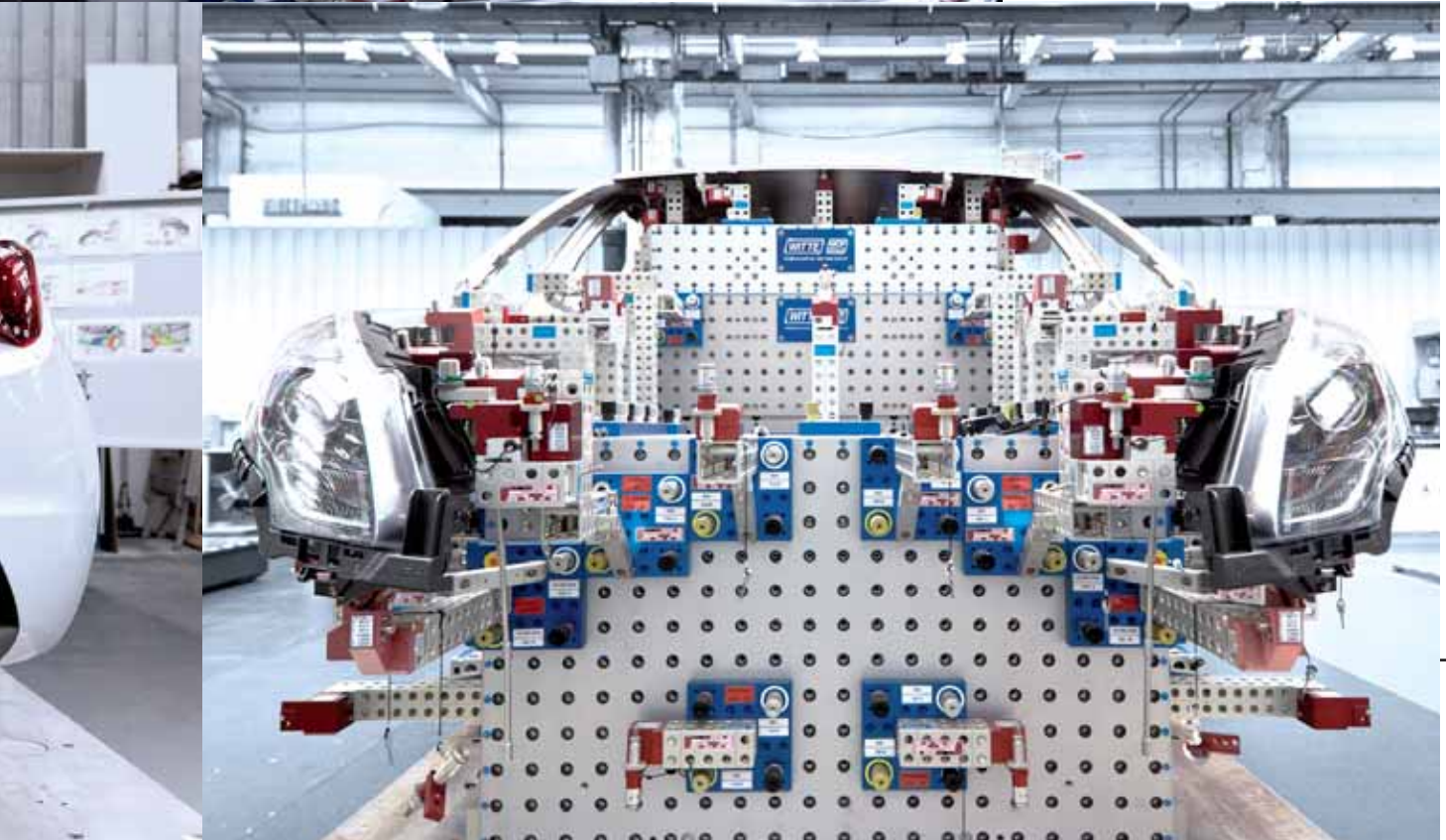
Witte Fixbase cubes
configured for mounting
of automotive parts



The doors of vehicle
to be checked are mounted
on separate, retractable
adapters



Cube prepared with various contact points and clamp combinations



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Information:

Weights mentioned in the catalogue are non-committal and approximate, and can deviate considerably i.e. through technical changes.

- We reserve the right to make technical changes.
- Where differences between photos and parts lists exist, the parts lists are decisive.
- Due to fluctuations of copper content in aluminum - alloy colour deviations may occur during anodizing or other treatment processes.
- All Alufix components are also available anodized black e.g. for use with optical measuring systems. Exceptions are standard hard anodized items such as pins, connection elements in steel etc. These items maintain their usual characteristics but can be changed on request.

All details on our products in this catalogue, especially illustrations, drawings, dimensions and statements on performance are to be regarded as approximate average values. We reserve the right to change design, technical data, dimensions and weights.

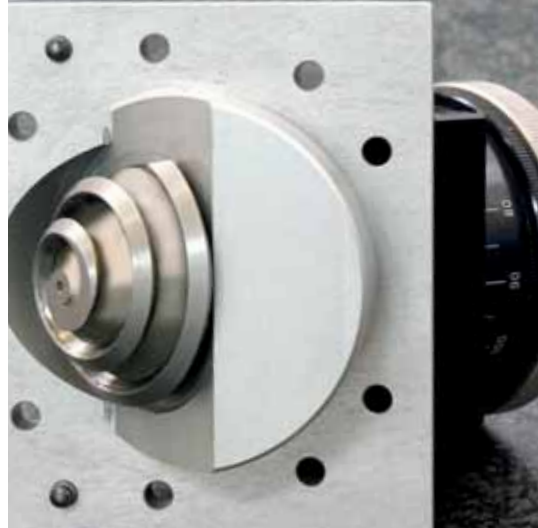
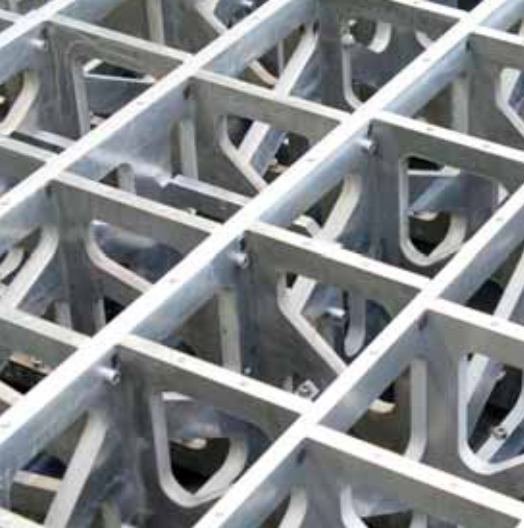
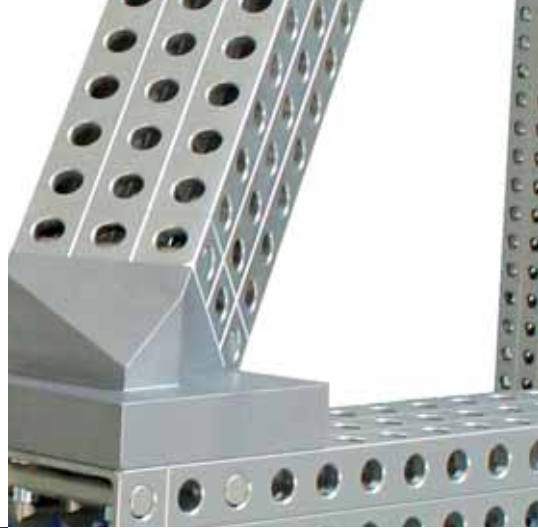
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