



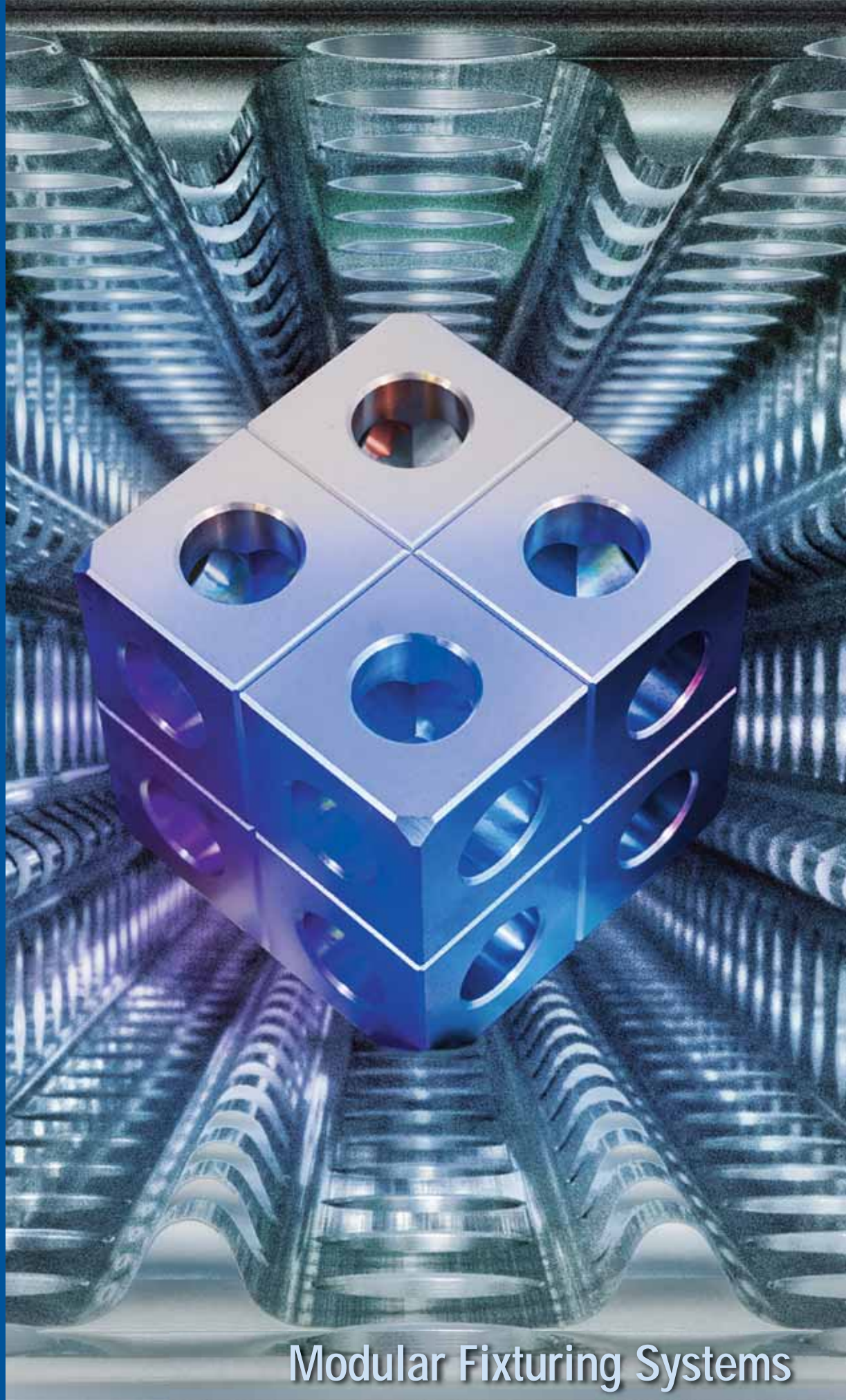
# ALUFIX

THE ORIGINAL - SINCE 1987

ALUFIX  
CLASSIC

ALUFIX  
ECO

FixBase®



Modular Fixturing Systems

Main catalogue **2017/18**

Projected storage building.  
Completion in 2017



## Hightech in Aluminium

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)



**Introduction** .....1  
 ■ Multiple Retooling ■ System Solutions

**Base plates and bars** .....13  
 ■ Alufix Classic ■ Alufix Classic Light

**Angle brackets and struts** .....32  
 ■ Alufix Classic

**Quick change couplings**.....34  
 ■ Alufix Classic

**Adjustment elements**.....38  
 ■ Alufix Classic

**Delta blocks and V blocks**.....66  
 ■ Alufix Classic

**Top sections**.....72  
 ■ Alufix Classic

**Clamping elements** .....86  
 ■ All systems

**Connection elements** .....108  
 ■ Alufix Classic ■ Quick and screw connectors

**Basic Sets** .....128  
 ■ Alufix Classic

**Witte FixBase®** .....152  
 ■ Sandwich plates, cubes, column supports

**Eurofix** .....180  
 ■ Hovercraft plates

**Accessories** .....186  
 ■ Cross systems ■ Castors, Rollers, etc.

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 ■ XS, Fixinspect

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 ■ Meisterbocks, Outline gauges, Cubings

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# Performance portfolio and set up

## Why should you choose Witte ?

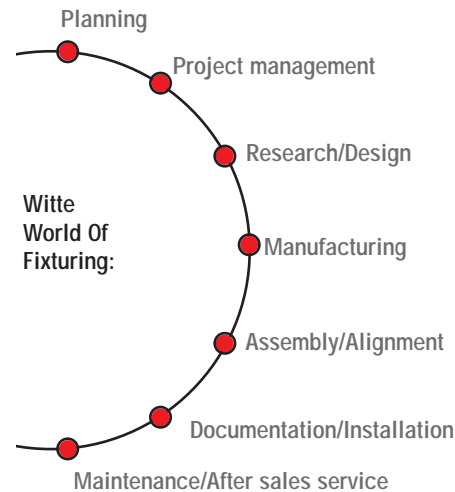
To decide on Witte system solutions and products is a decision for the future and reduces investment for measuring equipment and fixture cost for every following project.

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](http://www.witte-barskamp.de)

[www.alufix.de](http://www.alufix.de)

[www.witteasia.com](http://www.witteasia.com)

[www.witteamerica.com](http://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.

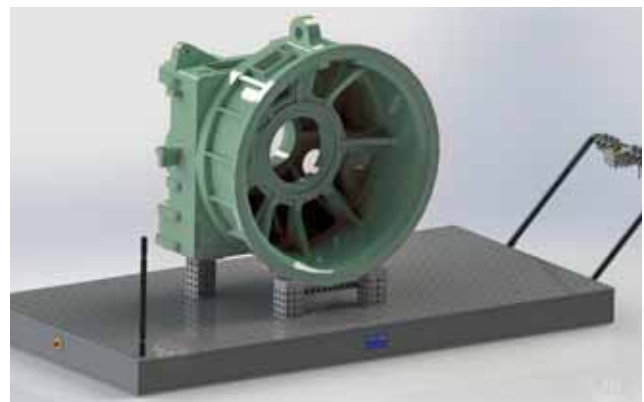
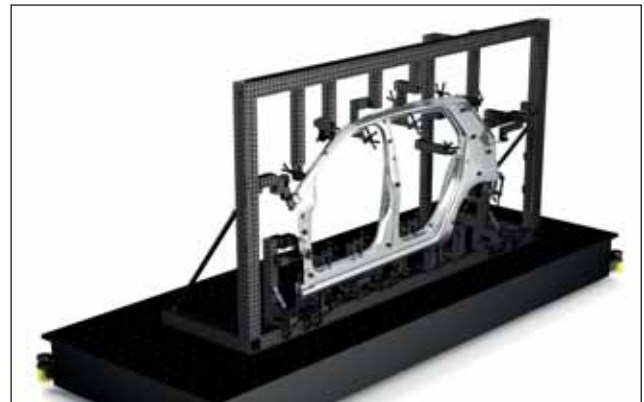
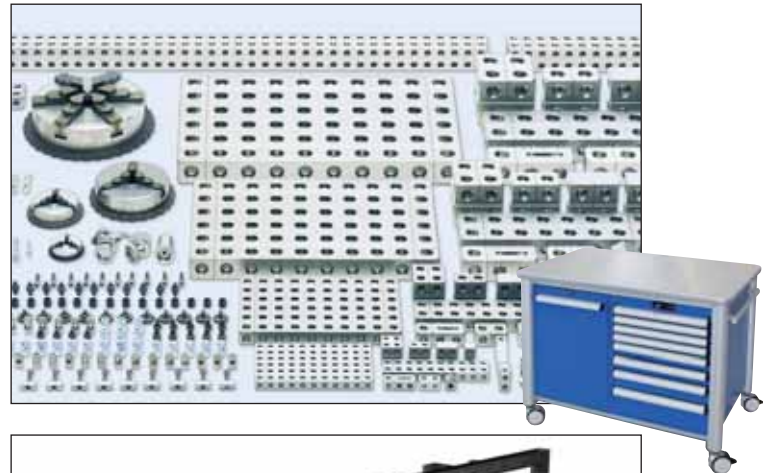
Different demands call for diverse solutions!

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...

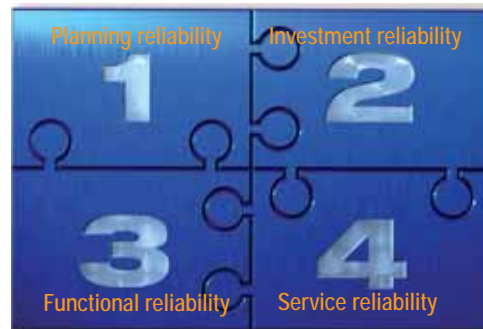
Reliability from market leader in fixture building  
with 30 years of experience and more than 10.000 systems sold worldwide

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

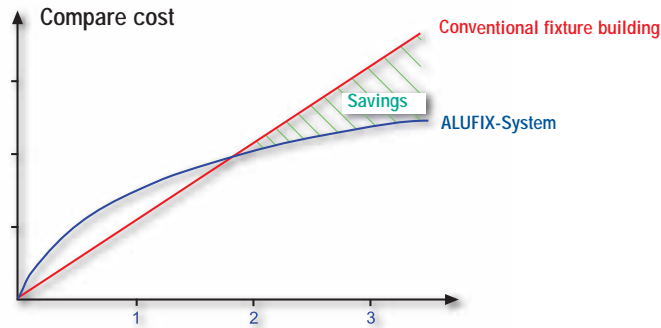
100% cost effective

- ▶ 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**

- ▶ 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% speed**

**100% Service**
**Service reliability**

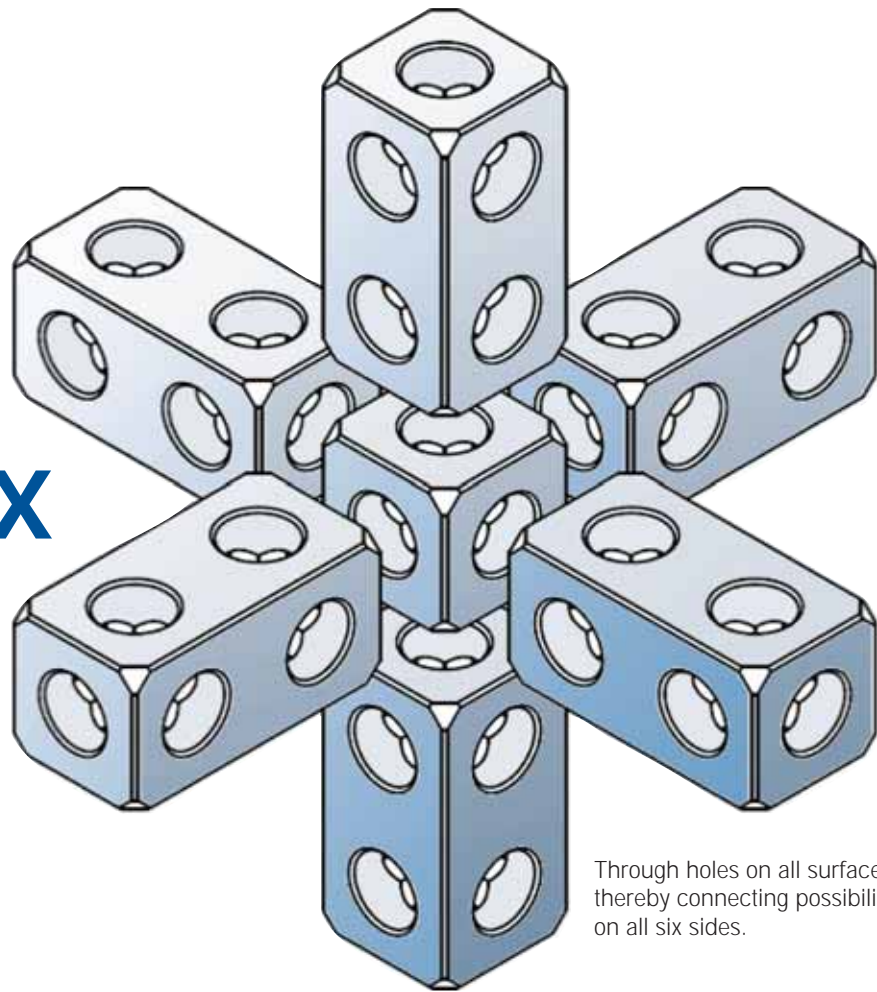
Services around ALUFIX leave nothing to be desired:

- ▶ 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!**



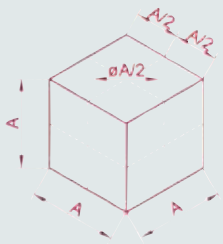
# The ALUFIX principle



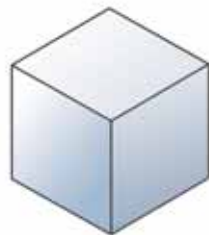
Through holes on all surfaces, thereby connecting possibilities on all six sides.

## Basic design

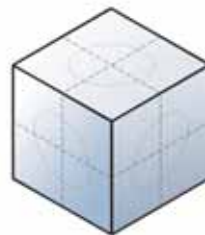
Origin of element geometry



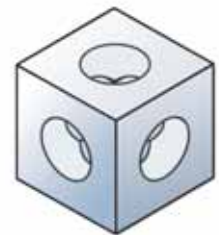
All further dimensions arise by multiplying the initial cube.



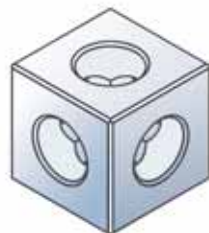
Initial shape: Cube



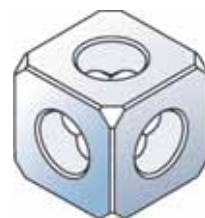
Marking for holes on all surfaces



Through holes on all surfaces



Chamfers on all edges

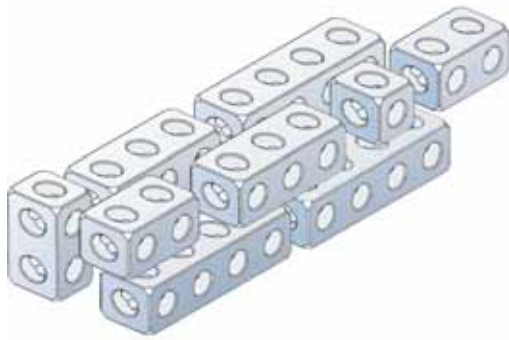


Angles on corners

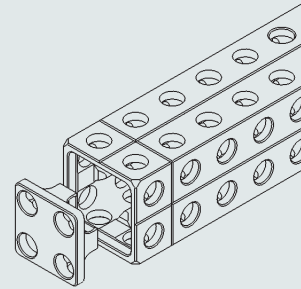


Sectional view





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



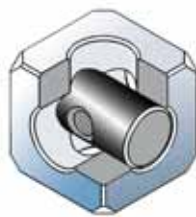
Hollow profiles (Light bars) are a logical extension for larger cross sections and lengths. Couplings mounted at both ends create 6 sided connection option.

## Connection technology

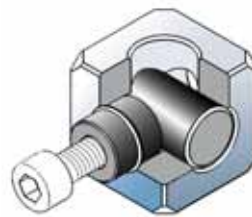
Each hole is not only for positioning but also for fixation



Sleeve for positioning



Screw nut



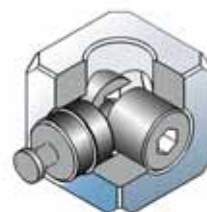
Sleeve, nut and screw



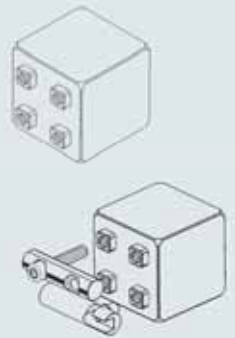
Twin bolt for positioning



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



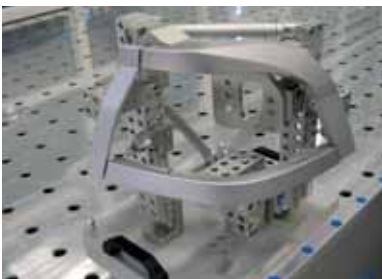
## Sophisticated part supports

- 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



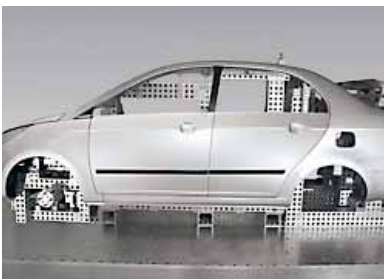
**Cubings**

- 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)



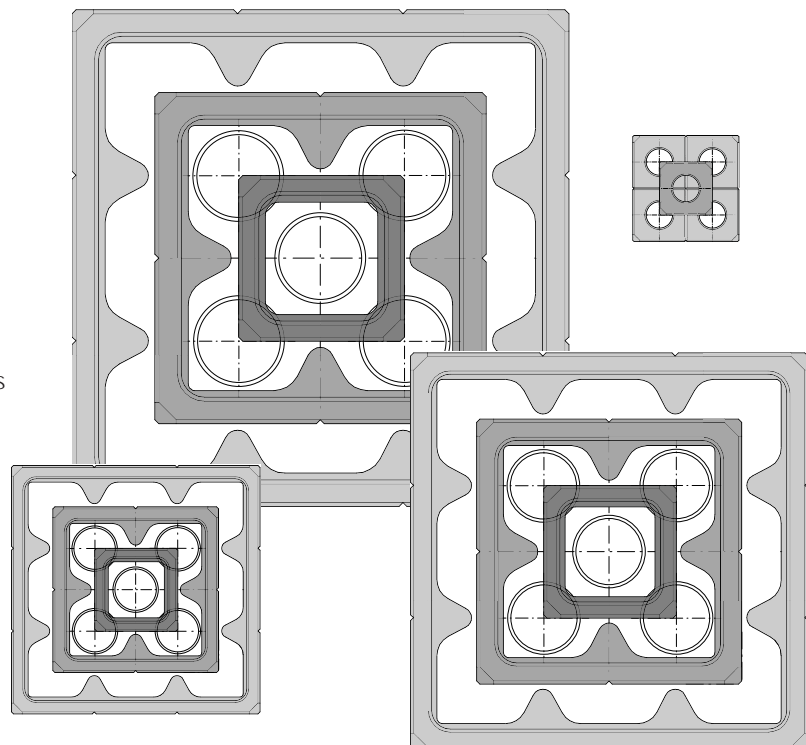
## System sizes

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.

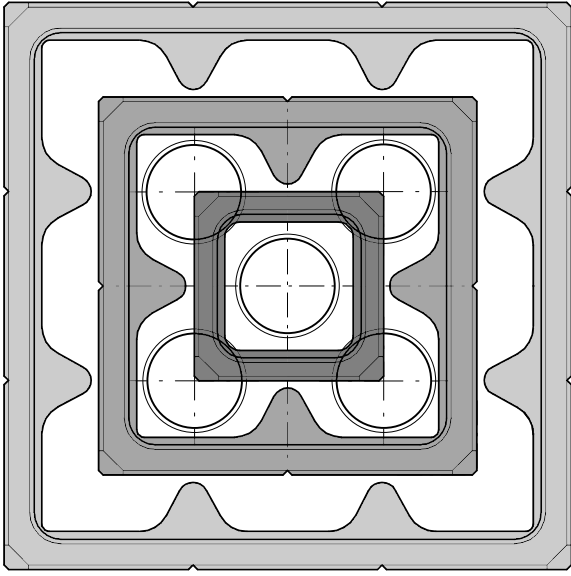


## Connection elements

Couplings, quick and screw connectors



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

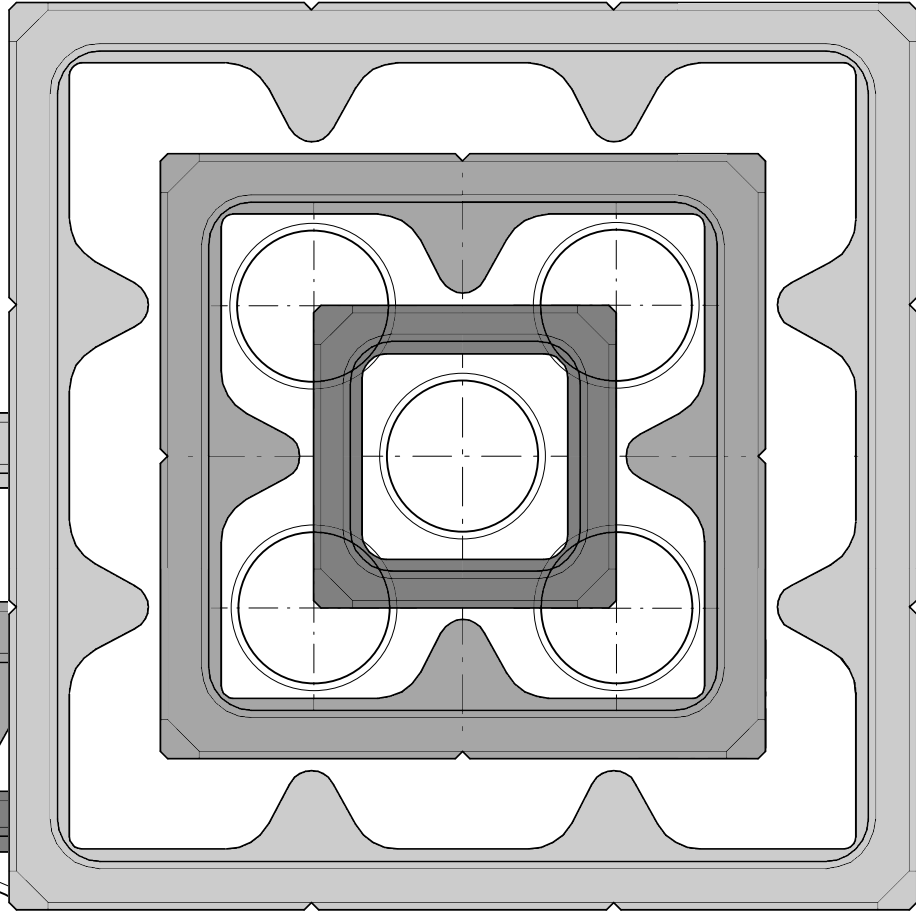


## Profiles in original size

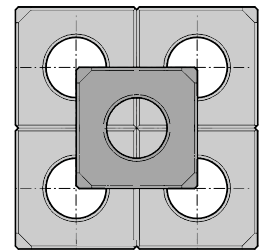
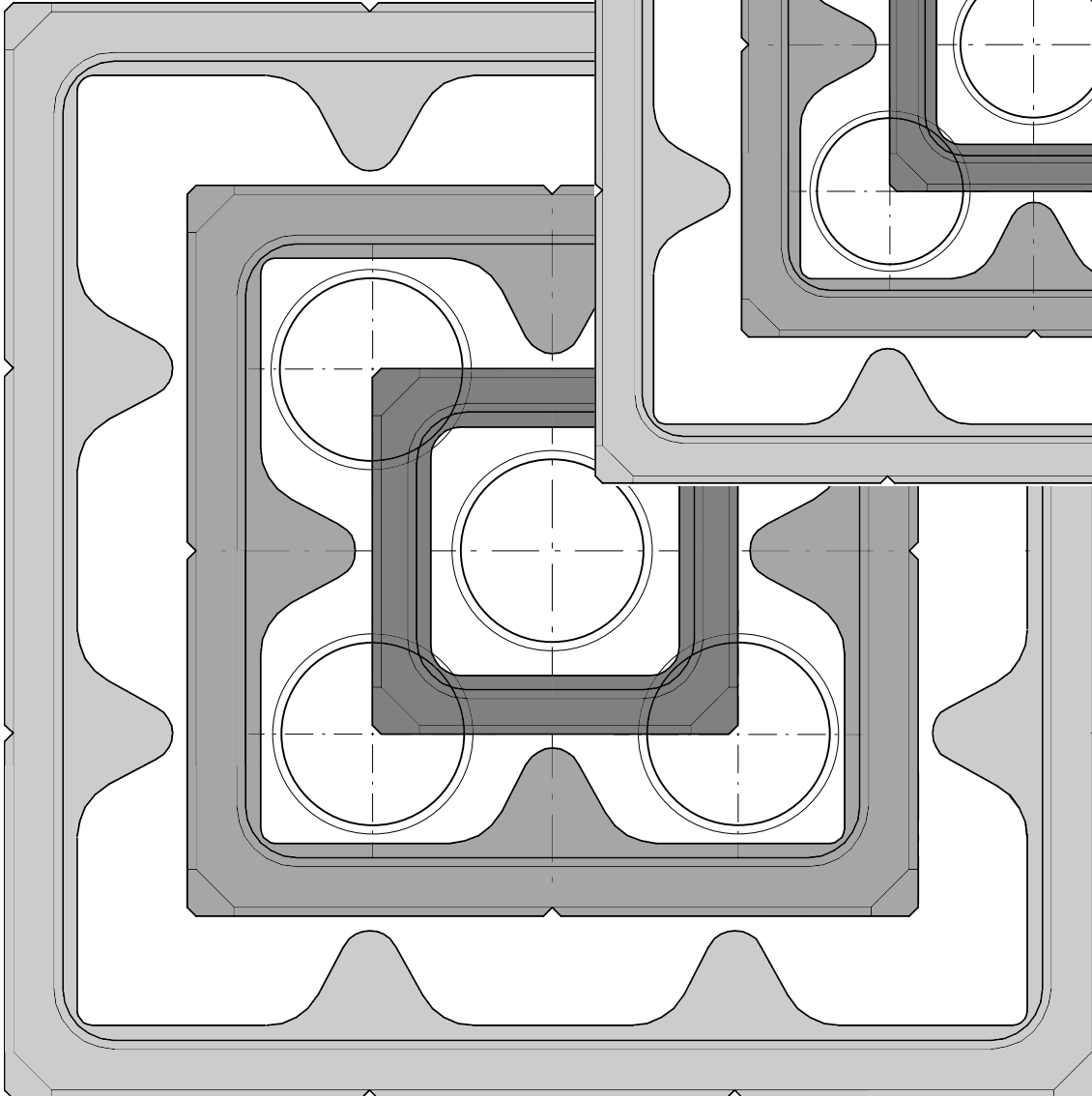
### ALUFIX

Material: EN AW 7075 (high tensile aluminium)  
 Tensile strength: Min. 480 N/mm<sup>2</sup>  
 Hardness: Min. 130 HB  
 Yield strength: Min. 390 N/mm<sup>2</sup>  
 E Module: 72.000 N/m<sup>2</sup>

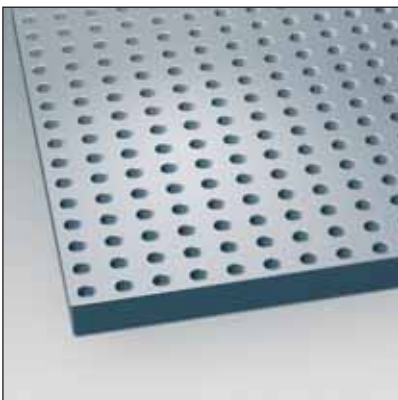
AF 40 Light, 40x40, 80x80, 120x120, grid hole  $\varnothing$  20



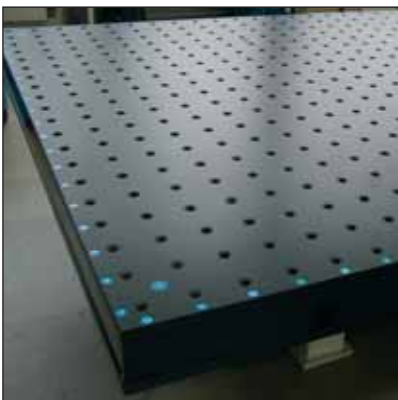
AF 50 Light, 50x50, 100x100, 150x150, grid hole  $\varnothing$  25



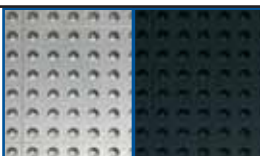
AF 16 full,  
 16x16,  
 32x32,  
 grid hole  $\varnothing$  8



## ALUFIX CLASSIC/ECO Base Plates



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

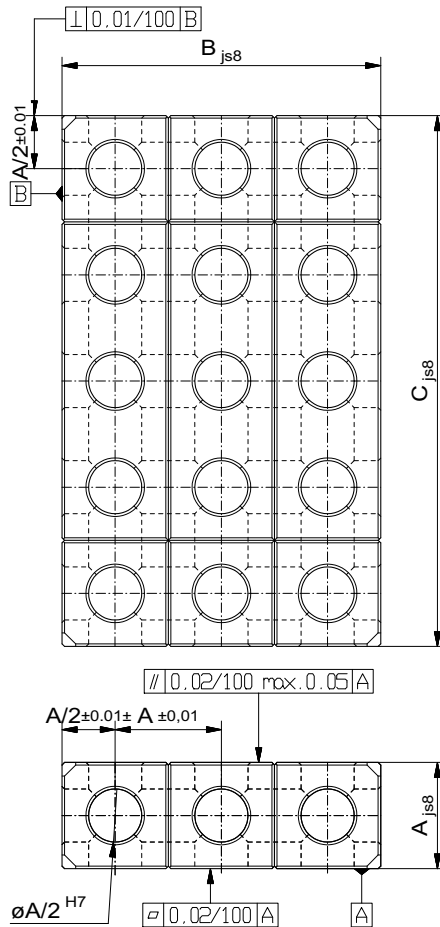


**i** ALUFIX CLASSIC base plates can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request

# ALUFIX Base Plates

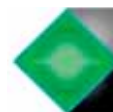
## AF16 CLASSIC

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

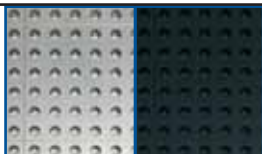


**AF25 CLASSIC/ECO(-E),**  
 Grid (A) 25, hole diameter 12,5mm

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

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

Nr.	A	B	C	g	Nr.	A	B	C	g	Nr.	A	B	C	g
21703	25	50	50	100	21698	40	80	80	410	28093	50	100	100	800
21704	25	50	75	150	21699	40	80	120	619	27858	50	100	150	1.200
21705	25	50	100	200	21700	40	80	160	825	28094	50	100	200	1.600
21706	25	50	125	250	21701	40	80	200	1.031	28095	50	100	250	2.000
22957	25	50	150	302	22909	40	80	240	1.239	28096	50	100	300	2.400
22959	25	50	200	403	22910	40	80	280	1.440	28097	50	100	400	3.200
22885	25	50	250	503	22906	40	80	320	1.647	28098	50	100	500	4.000
21707	25	50	500	1.009	21702	40	80	800	4.125	28099	50	100	1000	8.100
21488	25	100	125	506	22862	40	160	200	2.027	28100	50	200	250	4.000
28032	25	100	150	600	22861	40	160	240	2.486	27857	50	200	300	5.000
21347	25	100	175	708	21257	40	160	280	2.900	28101	50	200	350	5.600
21496	25	125	125	630	22860	40	200	200	2.568	28102	50	250	250	5.000
21348	25	125	175	888	22842	40	200	240	3.092	28103	50	250	350	7.000
21349	25	125	225	1.135	21258	40	200	280	3.600	28104	50	250	500	10.000
21350	25	150	150	908	22843	40	200	320	4.123	28105	50	300	300	7.200
21351	25	150	175	1.048	21259	40	200	360	4.638	28106	50	300	350	8.400
21352	25	150	200	1.211	22851	40	200	400	5.153	28107	50	300	400	10.000
21353	25	150	225	1.348	21260	40	240	240	3.670	28108	50	300	450	11.000
21354	25	150	250	1.523	21261	40	240	280	4.291	28109	50	300	500	12.000
21355	25	175	375	2.606	21262	40	240	320	4.904	28110	50	350	750	22.000
21356	25	200	200	1.617	21263	40	240	360	5.517					
21357	25	200	225	1.826	21264	40	240	400	6.133	28111	50	400	400	13.000
28033	25	200	300	2.590	22839	40	280	320	5.800	28112	50	400	450	14.500
21358	25	200	400	3.246	22900	40	280	360	6.500	28113	50	400	600	24.000
21360	25	250	300	3.035	21265	40	280	600	10.900	28114	50	400	800	25.000
21359	25	250	500	5.061	21266	40	320	320	6.539	28115	50	500	600	30.000
21361	25	300	400	4.860	21267	40	320	360	7.356	28116	50	500	1000	41.000
21362	25	300	500	6.068	21268	40	320	640	13.078	28117	50	600	800	44.000
22911	25	400	500	8.200	21269	40	400	480	12.500	28118	50	600	1000	48.000
22915	25	400	600	9.900	21303	40	400	800	21.000	28119	50	800	1000	72.000
22913	25	500	500	10.250	21270	40	480	640	20.200	28120	50	800	1200	80.000
22919	25	600	600	14.900	21271	40	480	800	24.800	28121	50	1000	1000	80.000
22921	25	600	800	19.900	28079	40	800	800	41.000					
20280	25	600	1000	24.700	28080	40	960	960	59.000					
					28081	40	960	1280	78.000					
					28082	40	960	1600	98.000					



**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

**i** Other dimensions on request

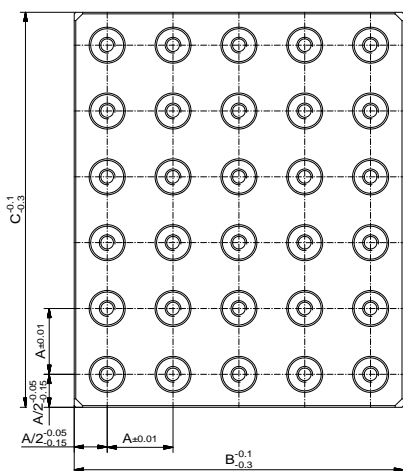
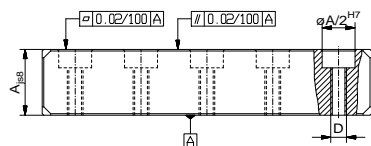


# ALUFIX

## Grid Base Plates

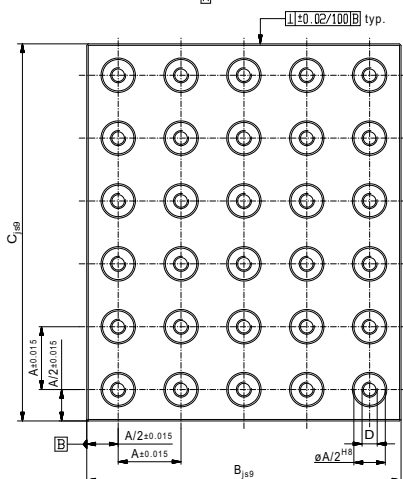
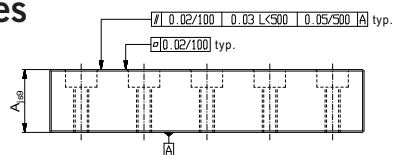
### ALUFIX CLASSIC

#### 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	g
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

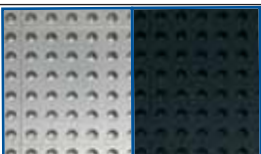


Application examples of Alufix base plates and grid base plates

**ALUFIX 50 CLASSIC/ECO(-E)**

Grid (A) 50, hole diameter 25mm

Nr. (ECO)	A	B	C	D	g
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

## 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

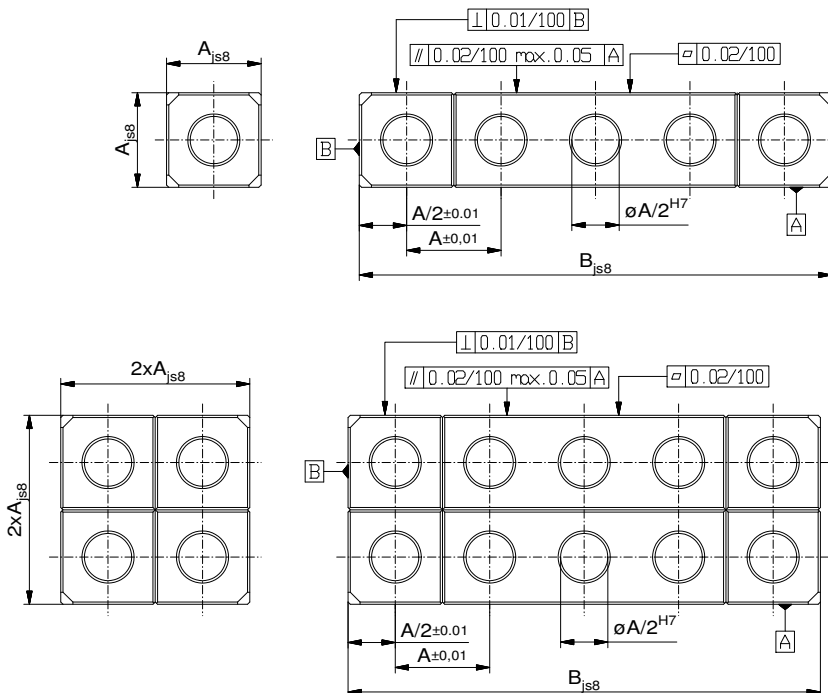
Nr.	B	
21582	16	7
21583	32	14
21584	48	21
21585	64	27
21586	80	33
20654	96	39
20801	128	53
20799	160	66
21587	320	140

### 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

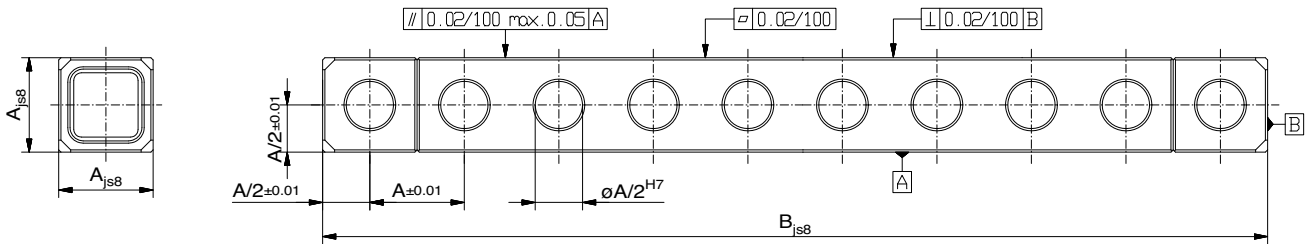


**i** **ALUFIX CLASSIC** bars can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request

**i** Other dimensions on request

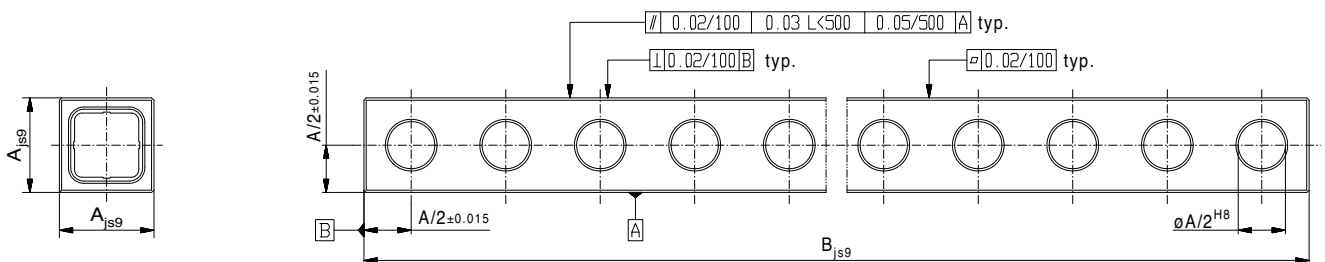
## ALUFIX CLASSIC

### 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	g
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	g
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

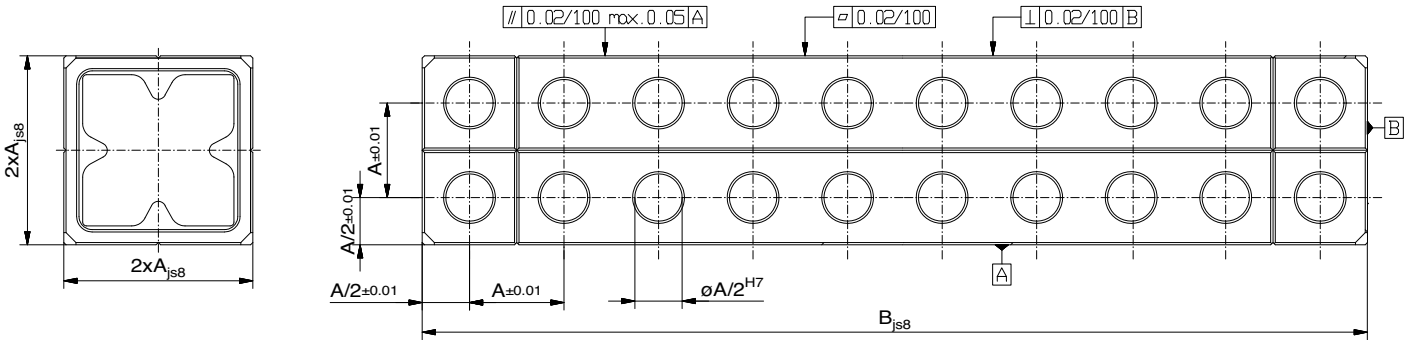
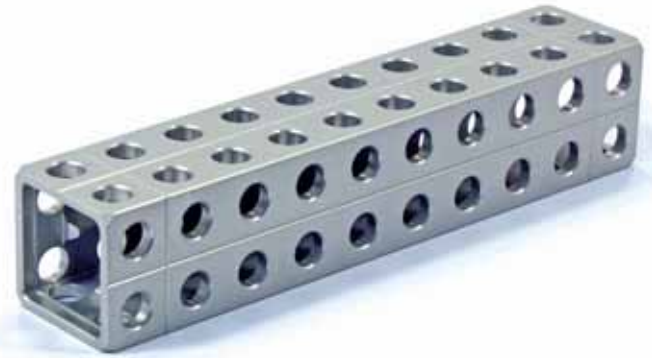
Nr.(ECO)	B	g
28149	50	165
28150(-E)	100	330
28151(-E)	150	495
28152(-E)	200	660
28153	250	825
28154(-E)	300	990
28156	350	1.155
28155(-E)	400	1.320
28157	450	1.485
26933(-E)	500	1.650
28615(-E)	600	1.990
28495	700	2.310
33297(-E)	800	2.240
32654	900	2.985
26935(-E)	1000	3.328
28939	1100	3.630
33298(-E)	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



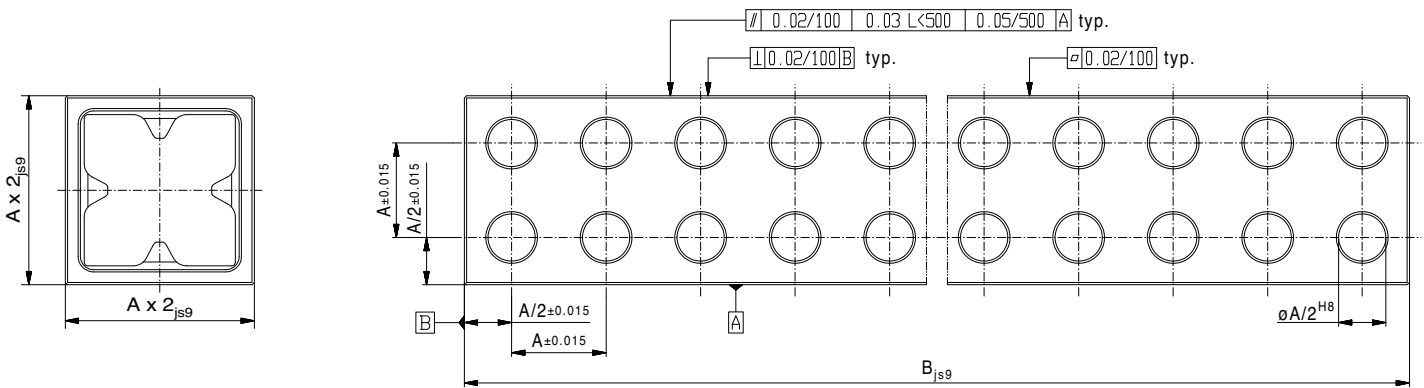
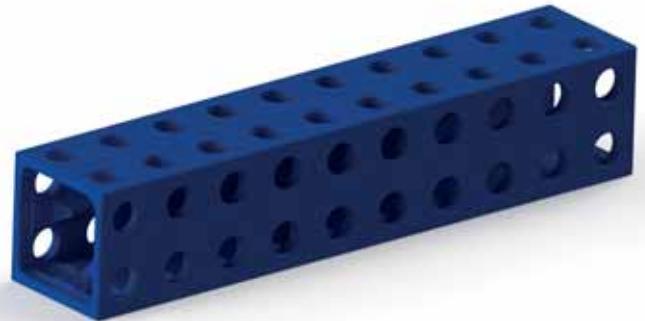
**i** **ALUFIX CLASSIC** bars can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request

**i** Other dimensions on request

# ALUFIX CLASSIC Light Bar two row

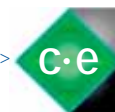


# ALUFIX ECO Light Bar two row



**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

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
	23863(-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

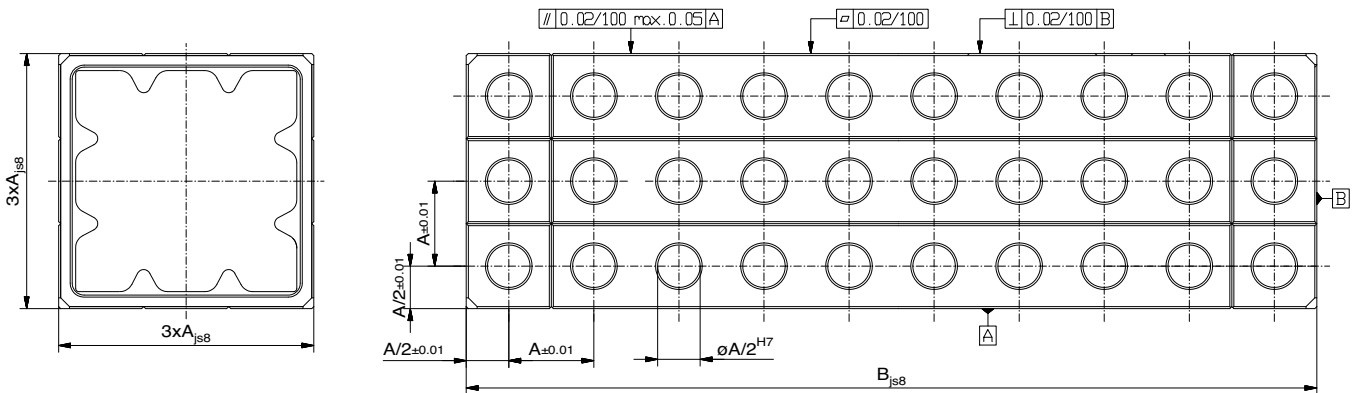
Grid (A) 50, hole diameter 25mm

	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



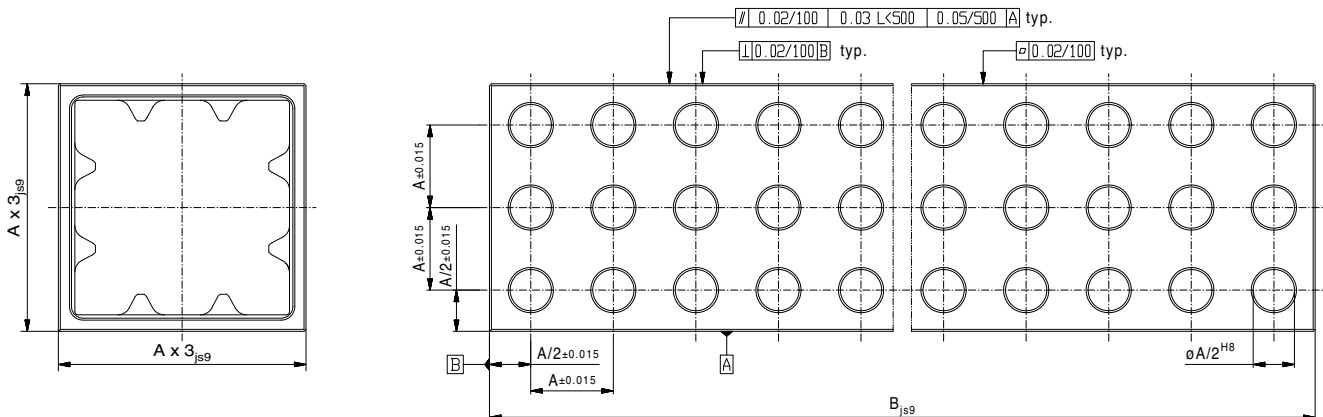
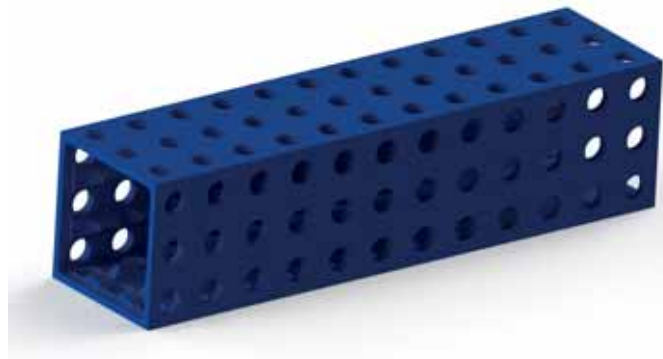
## ALUFIX CLASSIC

### 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

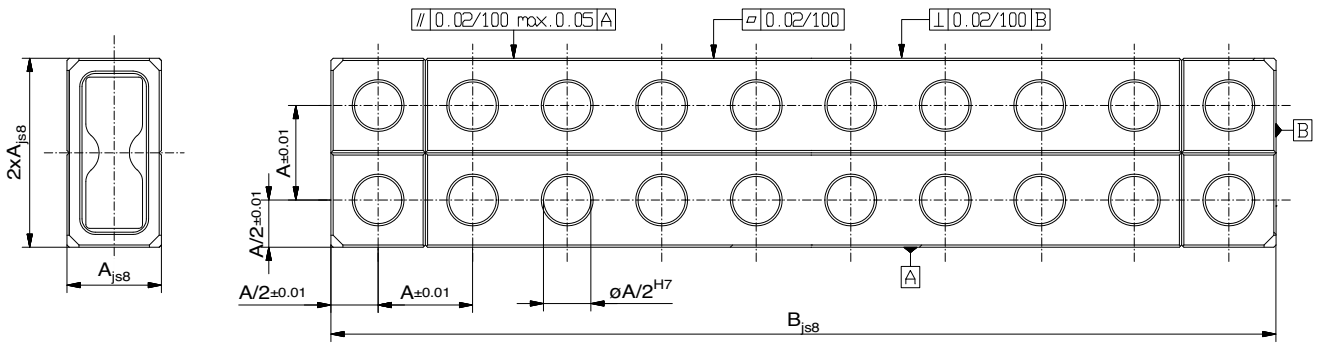
Grid (A) 50, hole diameter 25mm

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



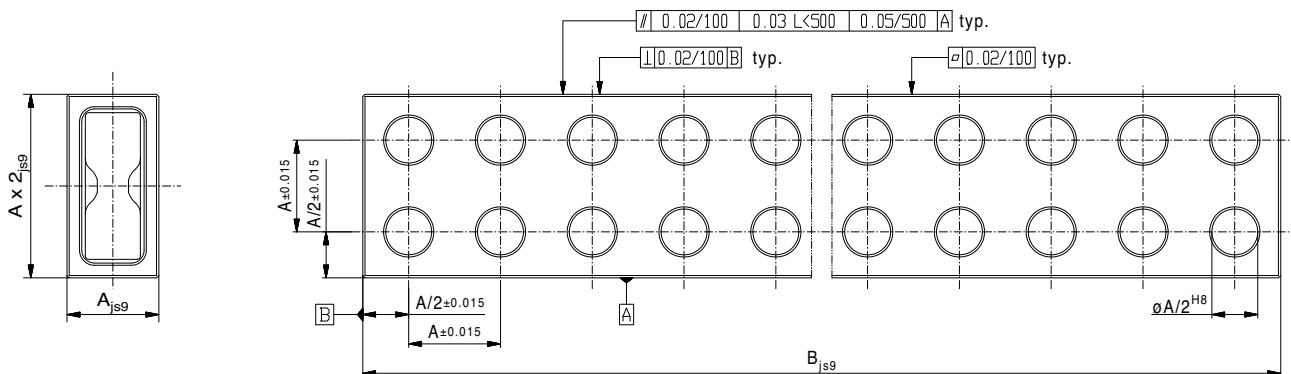
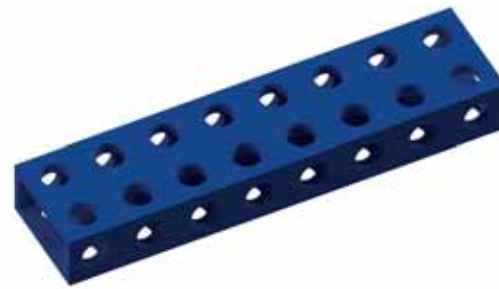
# ALUFIX CLASSIC

## 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
e 55090(-E)	50	68
e 55091(-E)	100	136
e 55092(-E)	150	204
e 55093(-E)	200	272
e 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
e 57400(-E)	80	286
e 57401(-E)	120	428
e 57402(-E)	160	571
e 57403(-E)	200	714
e 57404(-E)	240	857
e 57405(-E)	280	1.000
e 57406(-E)	320	1.142
57407	360	1.285
e 57408(-E)	400	1.428
57409	440	1.571
e 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

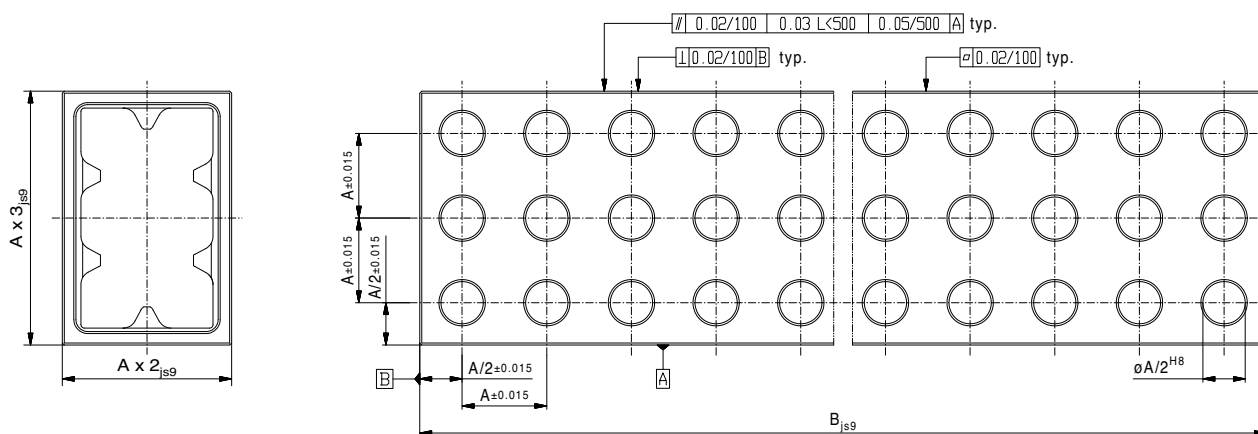


**i** **ALUFIX CLASSIC** bars can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request

**i** Other dimensions on request

# ALUFIX ECO

## Light Bar rectangular



### AF25 ECO

A=25, 50 x 75

Nr.	B	$\bar{g}$
122567-E	100	230
122568-E	200	460
122569-E	300	690
122570-E	400	920
122571-E	500	1.150
122572-E	600	1.380
122573-E	800	1.840
122574-E	1000	2.300
122575-E	1200	2.760
122576-E	1500	3.450
122577-E	2000	7.000

### AF40 ECO

A=40, 80 x 120

Nr.	B	$\bar{g}$
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



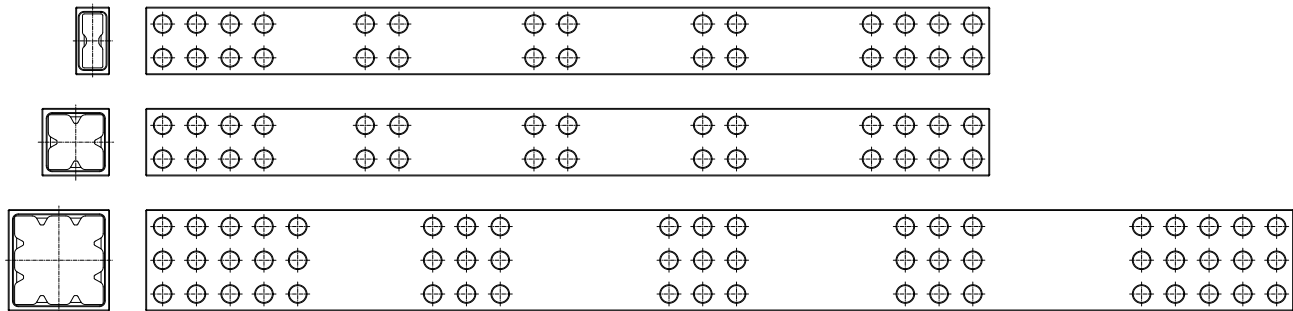
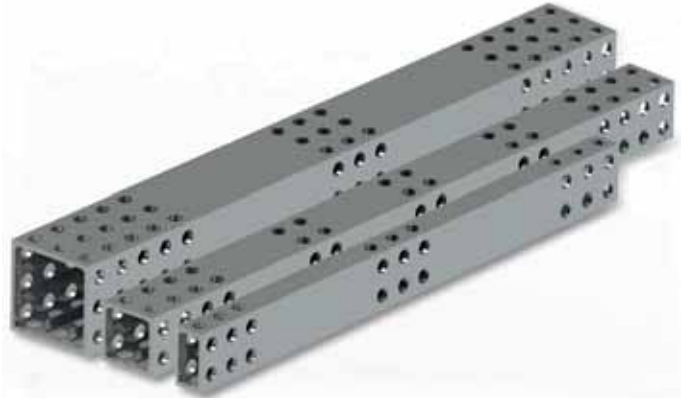
**i** ALUFIX CLASSIC bars can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request

# 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.



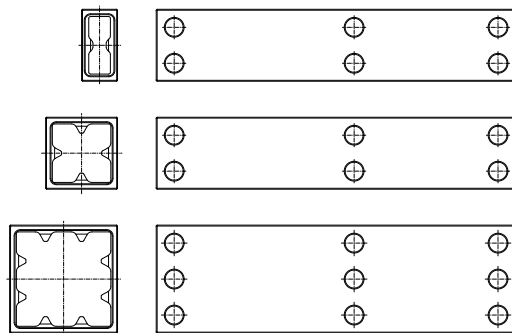
Light bar SX: With strategically placed hole rows  
 Dimensions for position and type of hole grids on request or  
 on our homepage [www.alufix.de](http://www.alufix.de)

# ALUFIX ECO

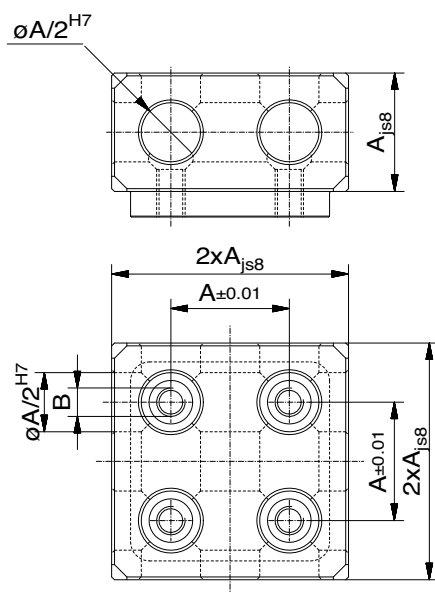
## Light Bar CX

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](http://www.alufix.de)

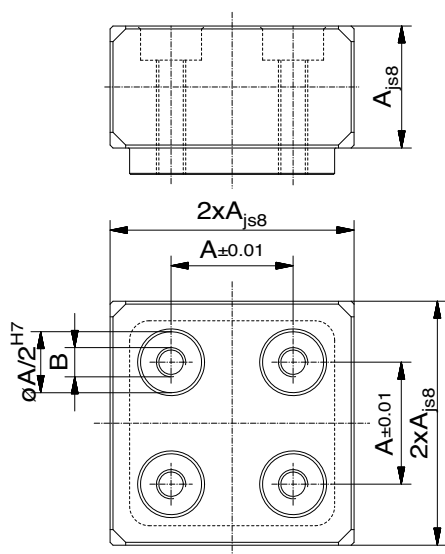


## Coupling plate, universal

For Light bars

Nr.	AF	A	B	$\bar{g}$
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	$\bar{g}$
333626	25	25	M6	141
333627	40	40	M10	578
333628	50	50	M12	987

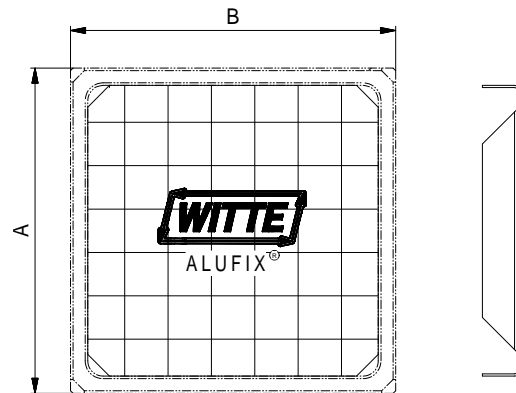




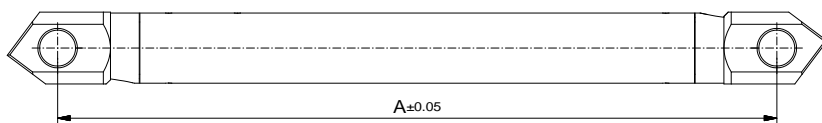
## Blind covers

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 40	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

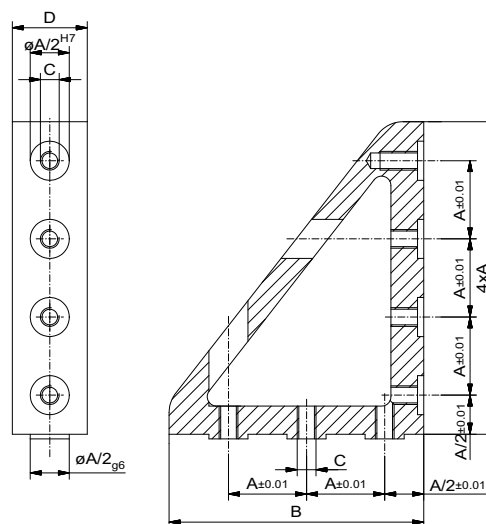
Grid 50, hole diameter 25mm

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

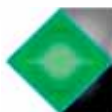
Nr.	A (AF)	B	C	D	g
120511	25	81,5	6	24	194
120514	25	121,5	6	24	319
120512	40	81,5	10	39	315
120515	40	121,5	10	39	518
120513	50	81,5	12	49	396
120516	50	122,5	12	49	651

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



Profile angle brackets are also available on request in special widths

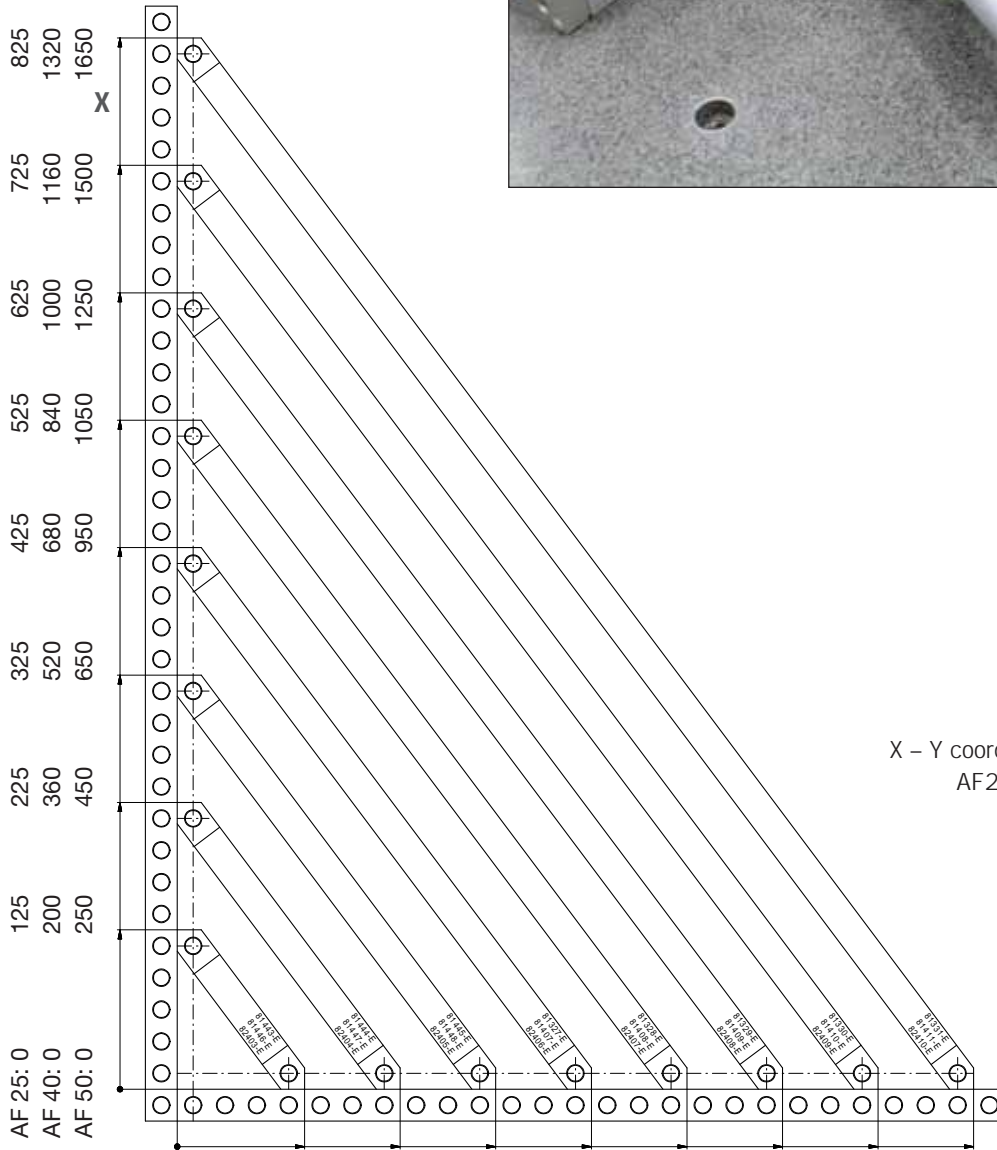
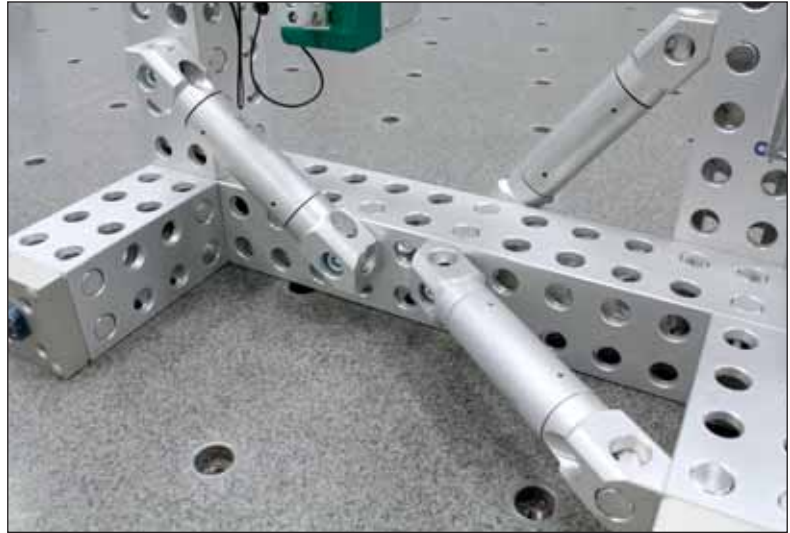
Preference item:  
Articles with green diamond →  
are available ex stock!



→ Article colour anodized natural

→ Article colour anodized black

# ALUFIX CLASSIC Struts



X - Y coordinates for struts  
AF25 / AF40 / AF50

AF 25: 0	100	175	250	325	400	475	550	625
AF 40: 0	160	280	400	520	640	760	880	1000
AF 50: 0	200	350	500	650	800	950	1100	1250

y



**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



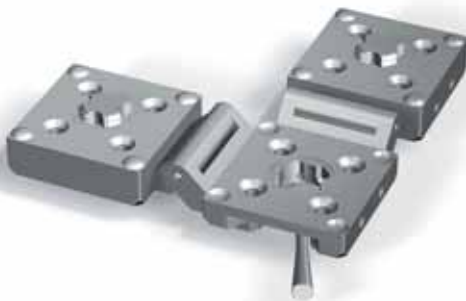
Quick change coupling for folding back, hinge is mouted at the rear



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.

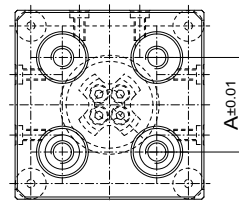
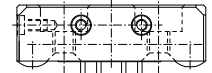
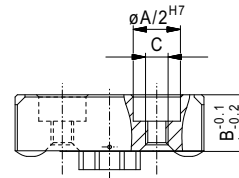
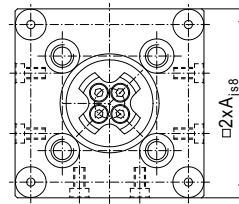


**ALUFIX CLASSIC** elements can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request.

### Quick change coupling top section

with hinge bores, complete

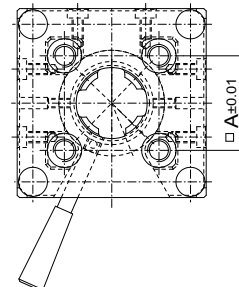
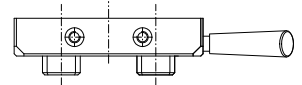
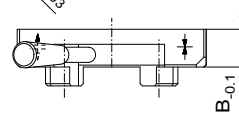
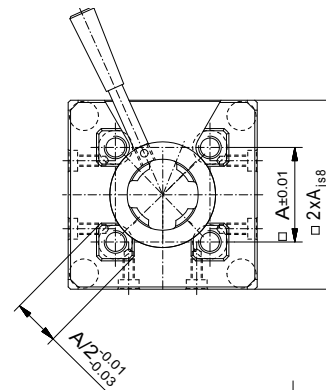
	Nr.	A (AF)	B	C	
	282471	25	15	M6	101
	282472	40	24	M10	415
	282473	50	30	M12	810
	283320	40/25	24	M6	415
	283330	50/25	30	M6	810



### Quick change coupling bottom section

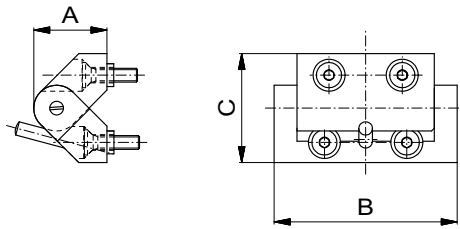
with hinge bores, complete

	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

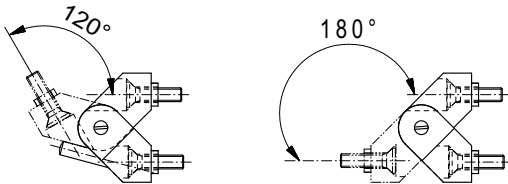
Other versions on request



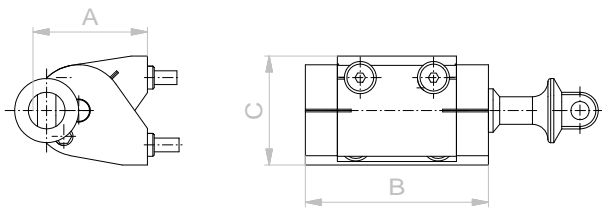
### Hinge

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



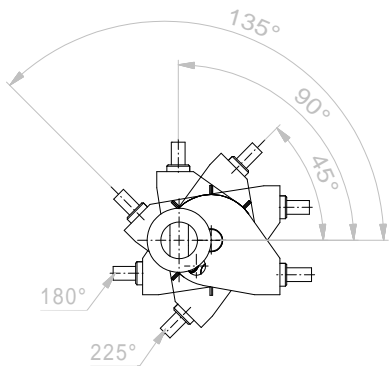
Cylindrical pin limits opening angle to 120°



### 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	-



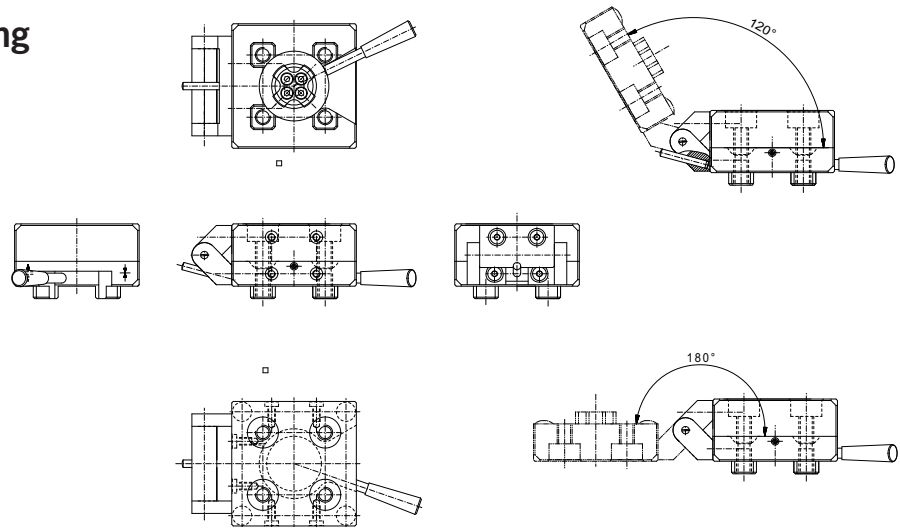
Preference item:  
Articles with green diamond ->  
are available ex stock!



-> Article colour anodized natural  
-> Classic and/or ECO  
-> Article colour anodized black

### Quick change coupling

Assembly



Application example for quick change couplings



**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.

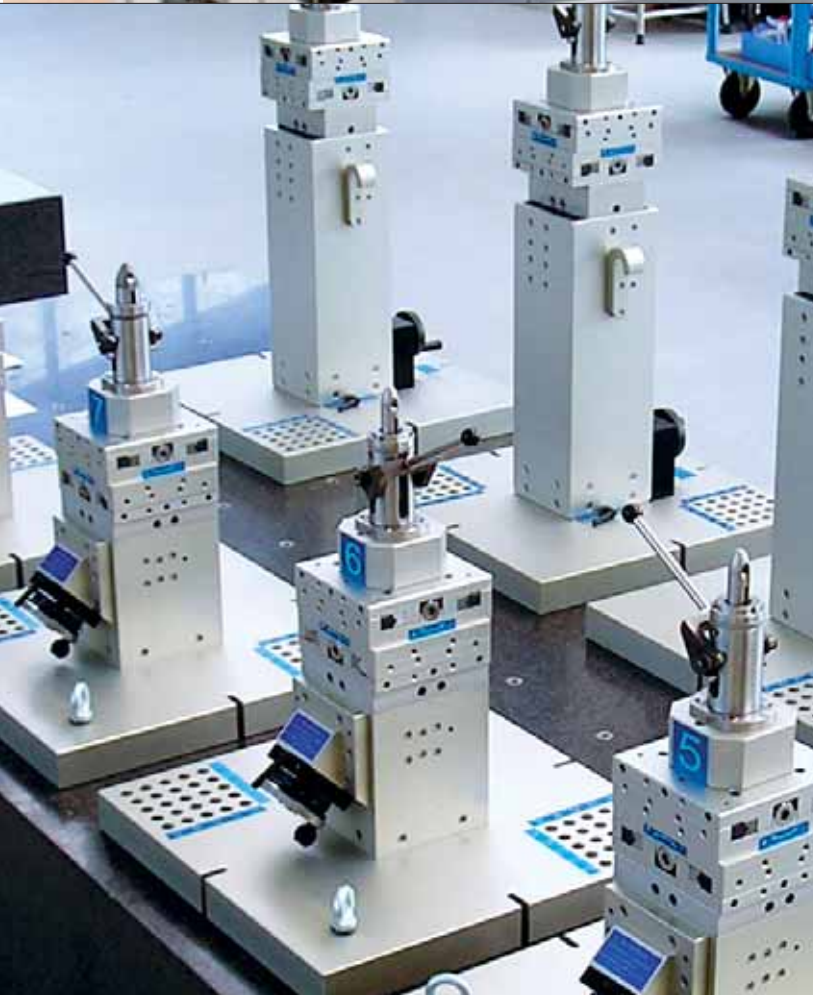
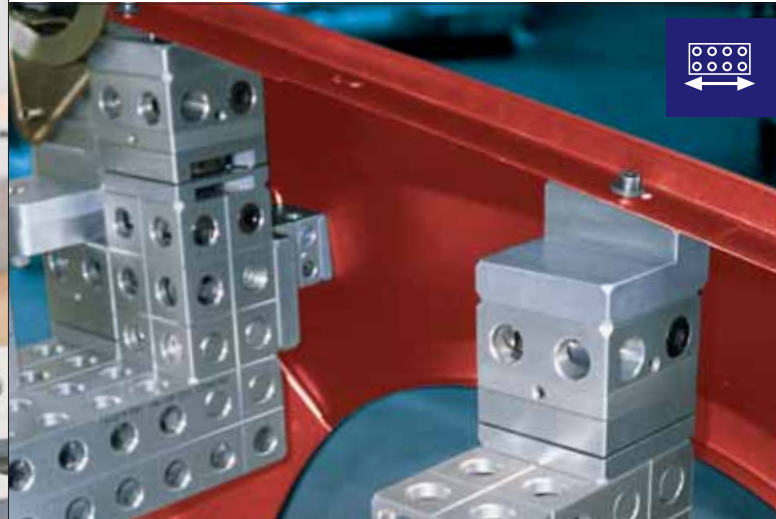
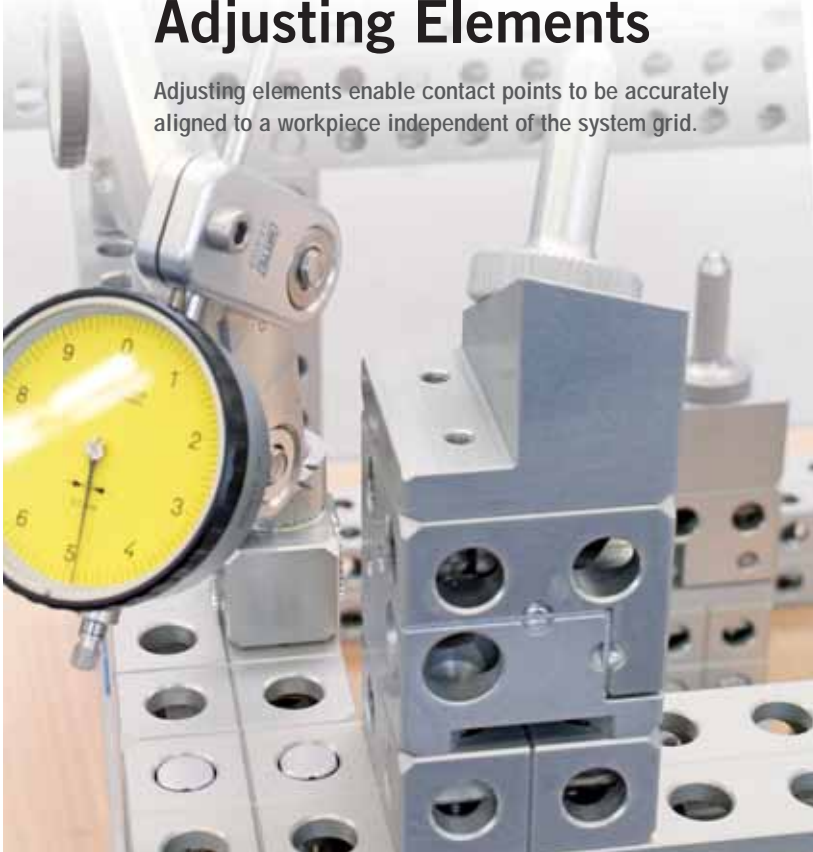
**i** Other versions on request

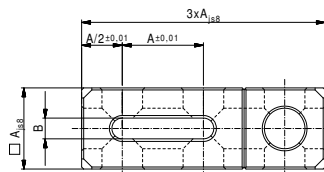




# ALUFIX CLASSIC Adjusting Elements

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

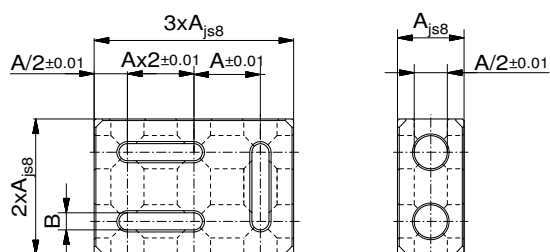




## Bar 1D

for positioning in 1 axis independent of grid

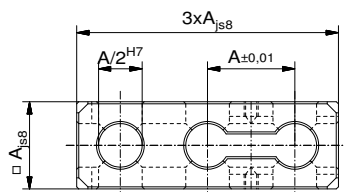
Nr.	A (AF)	B	
20114	16	4,1	20
23233	25	6,8	80
23279	40	10,8	320
28040	50	13,7	625



## 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



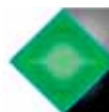
## Bar with 1 offset unit

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!

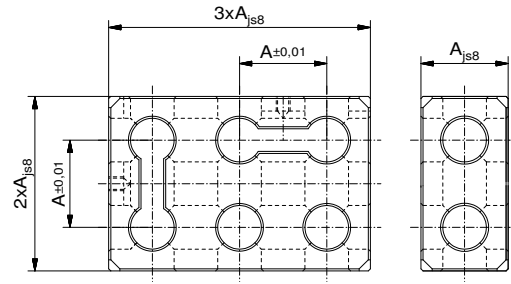


→ Article colour anodized natural  
→ Classic and/or ECO  
→ Article colour anodized black

## Base plate with 2 offset units

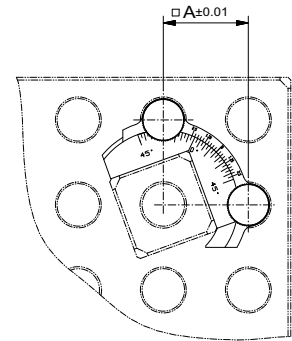
fine adjustment with a screw connection in 2 axes

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



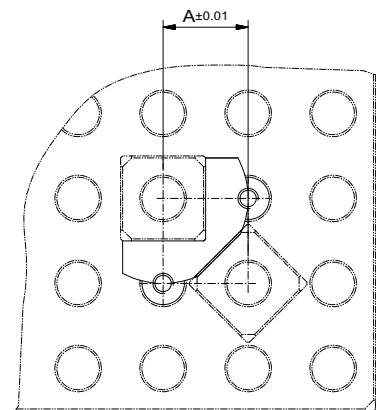
## Heel block 45° - 90°

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



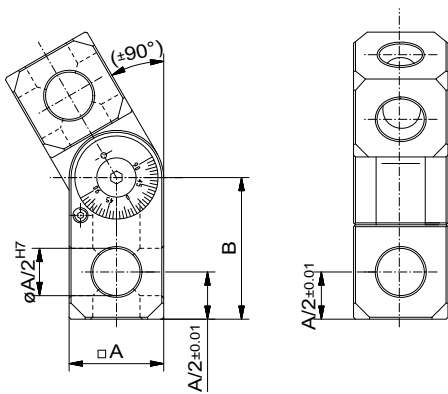
## Heel block 45°/ 90°

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



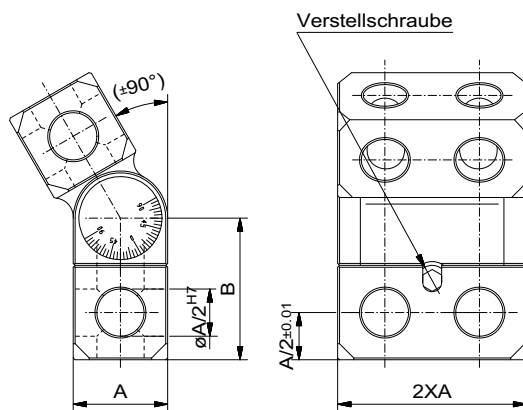
**ALUFIX CLASSIC** elements can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request.

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



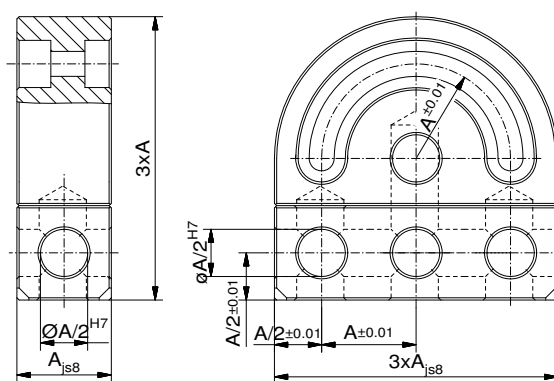
## Knuckle

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



## Double knuckle

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



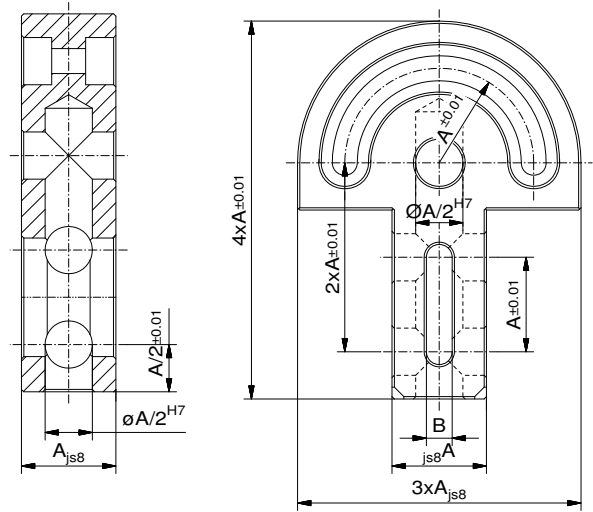
## Swivel

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



## Swivel-T

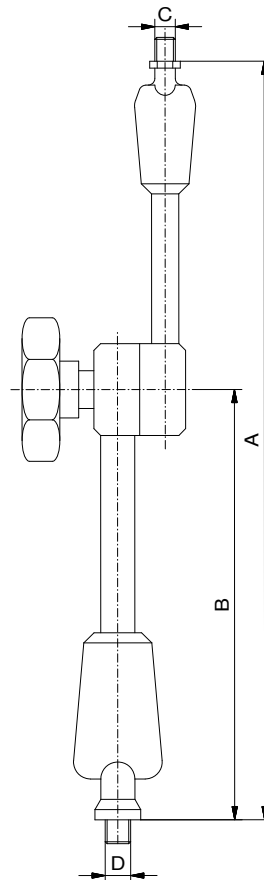
Nr.	A (AF)	B	
30667	25	6,8	195



## Swivel arm AF 25

with joint

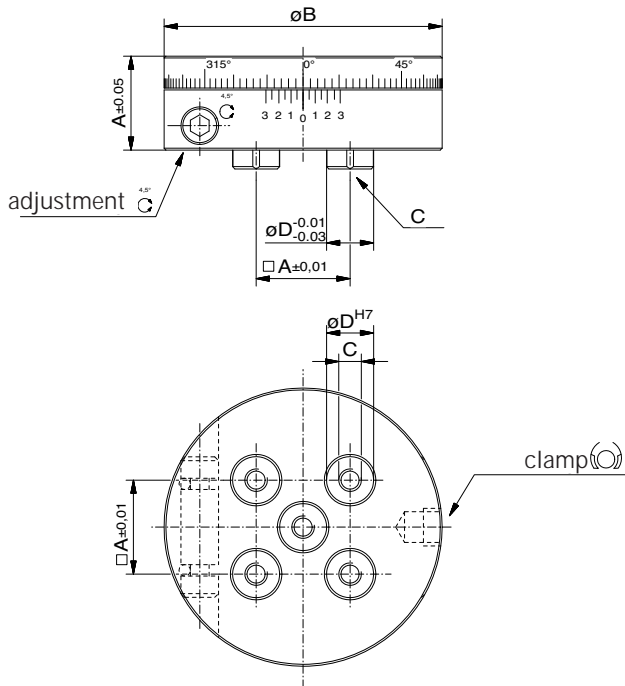
Nr.	A	B	C	D	max. load	
85411	130	70	M6	M6	30 N	135
82121	205	115	M6	M8	40 N	282
82122	285	175	M6	M8	70 N	687



Special connection elements for swivel arms on page 122



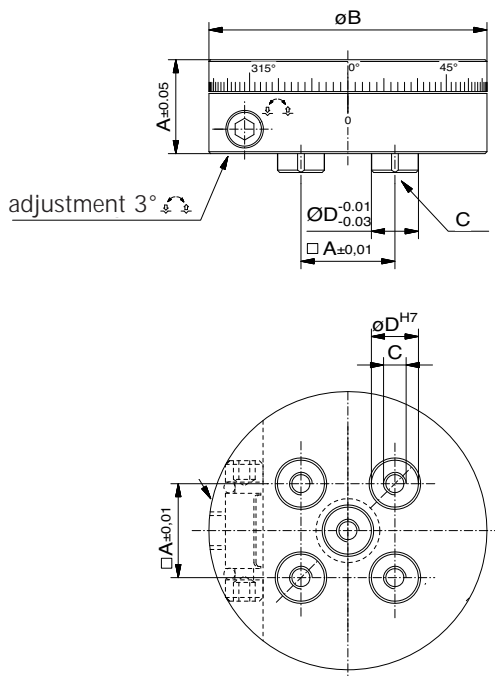
**ALUFIX CLASSIC** elements can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request.



## Rotary plate AF 25

with infinitely variable clamp

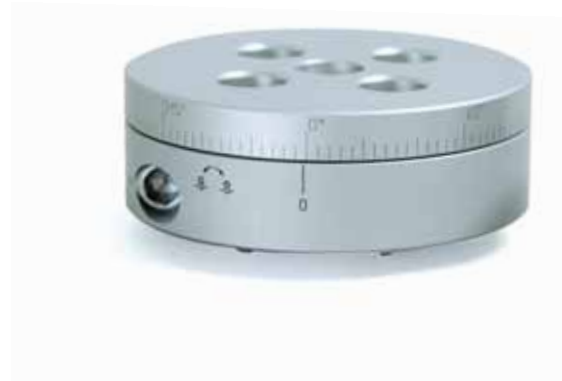
Nr.	A	B	C	D	
96741	25	74	M6	12,5	340
280183	40	120	M10	20	770



## 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

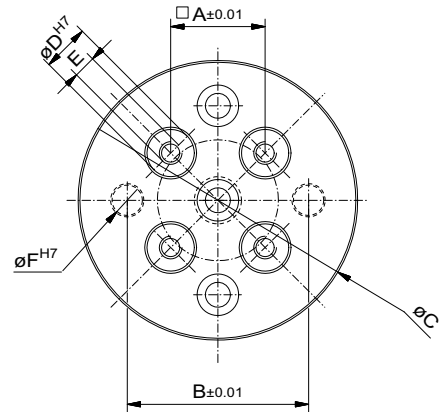
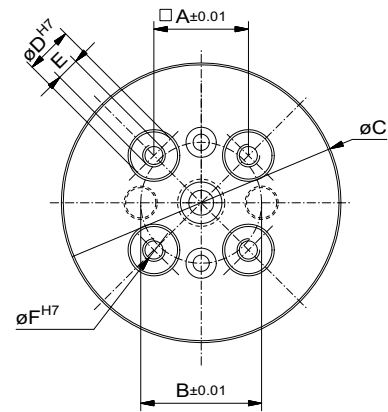
Nr.	A	B	C	D	E	F	
56162	25	32	74	12,5	M6	8	123



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

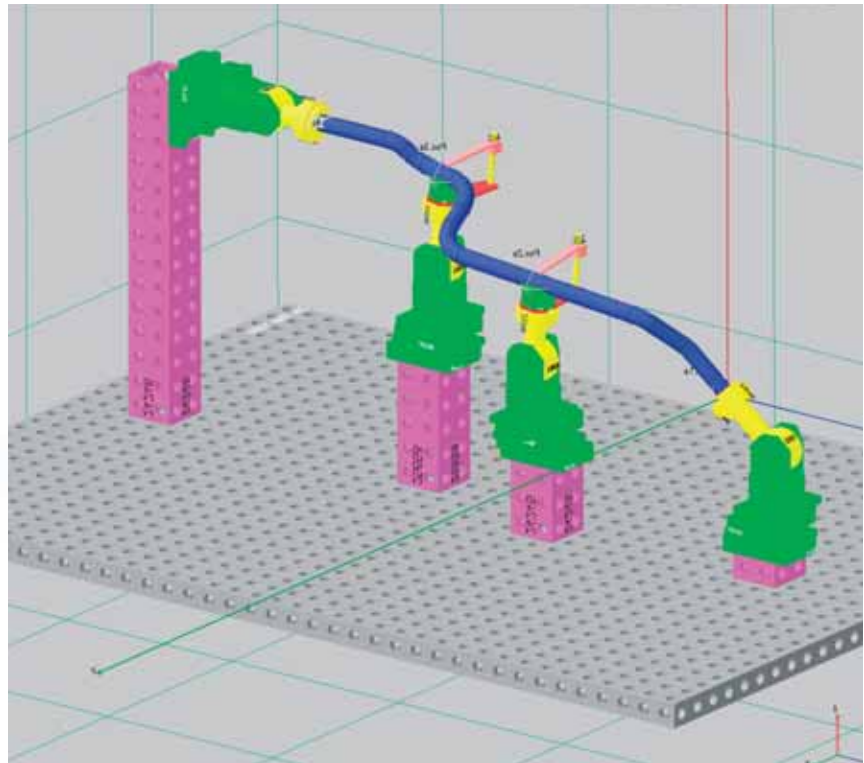


ALUFIX CLASSIC elements can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request.

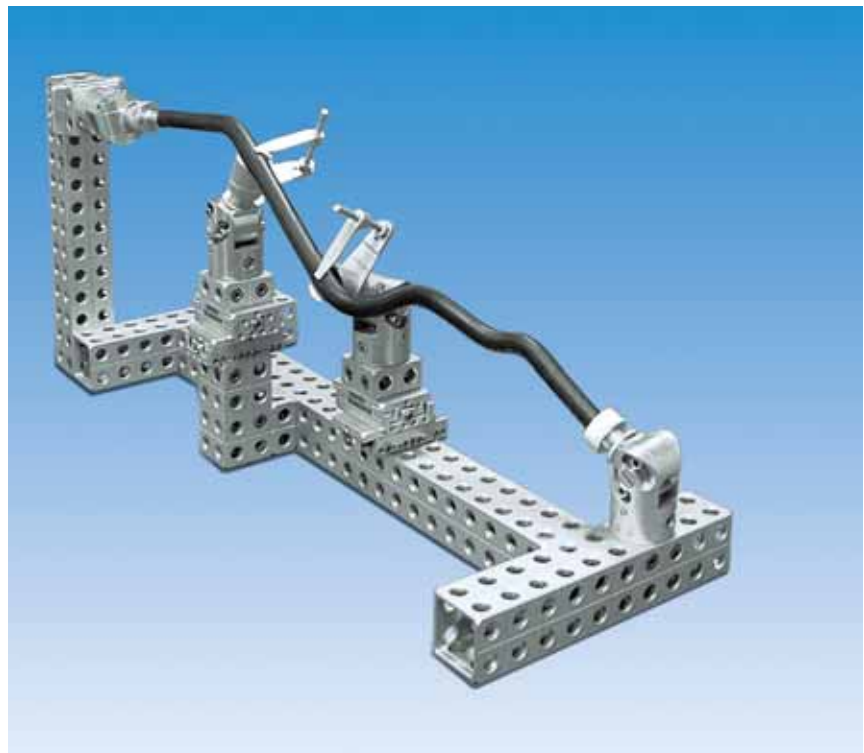


## Rotary swing unit

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.





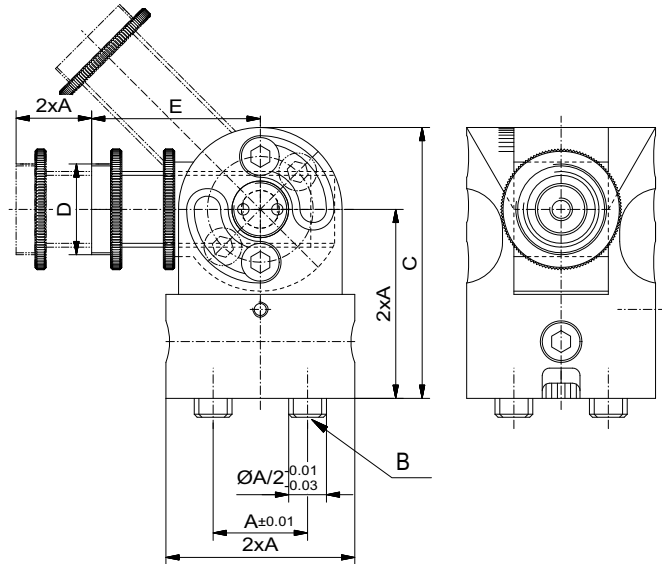
## Rotary swing unit

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

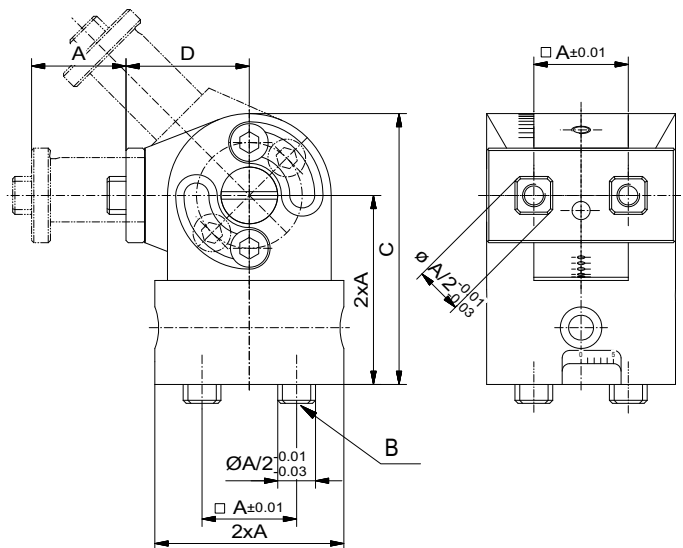
with nubs

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

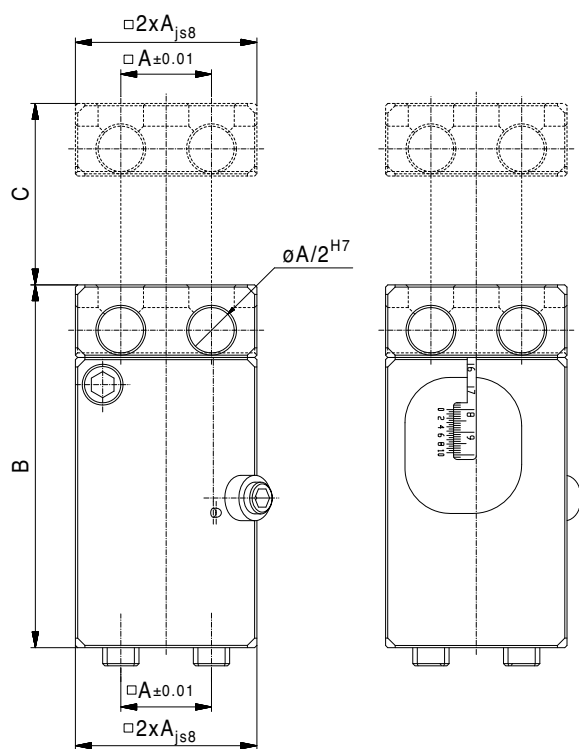
Alufix jacks are used to position and level different sized parts for measuring.

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	g
82949	25	75	25	30 kg	486
90538	40	160	80	45 kg	2.660
82821	50	200	100	60 kg	5.523

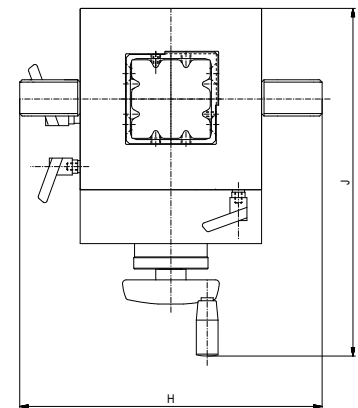
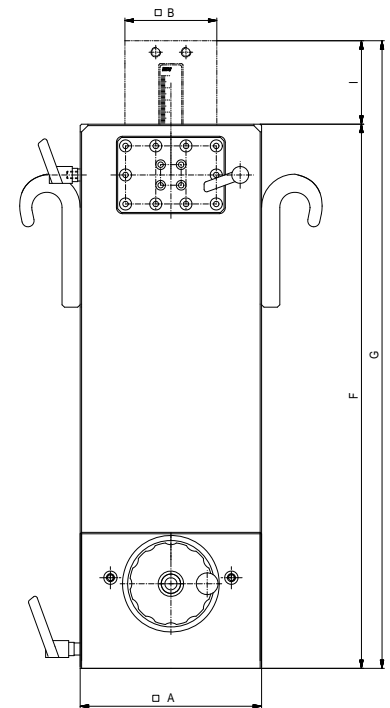
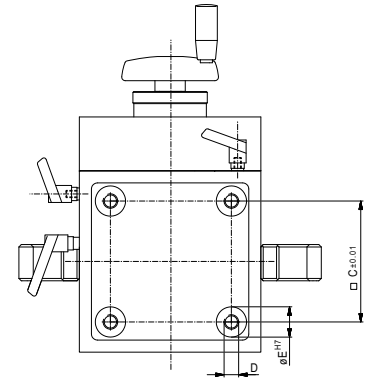


### Jack 1000, Heavy Duty

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.



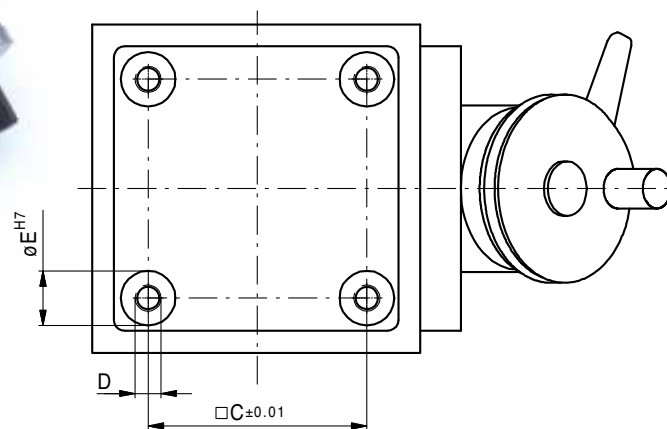
**i** ALUFIX CLASSIC elements can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request.



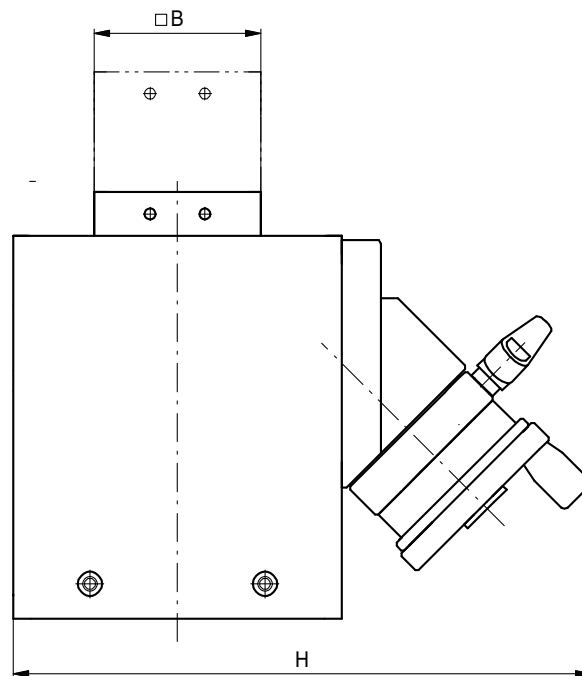
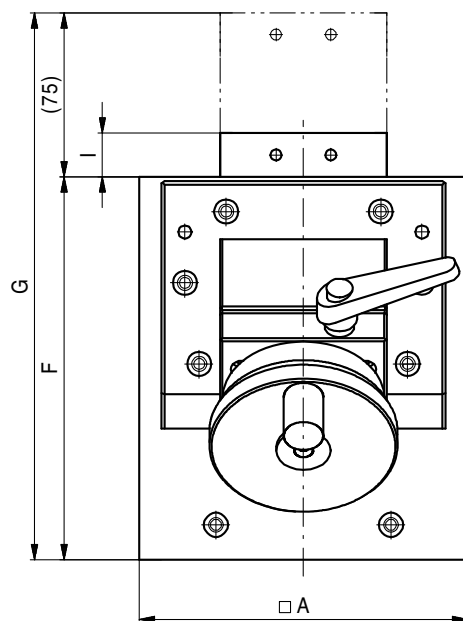
## Jack 500

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



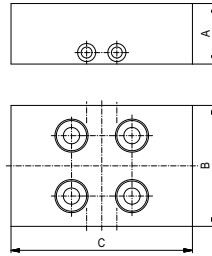
Top blocks are not included in jack supply, they must be ordered separately.



### Top block AF50 for jack

with AF50 holes and connectors

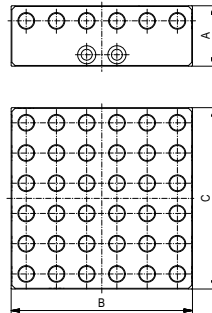
Nr.	A	B	C	
98217	50	100	150	1.924



### Top block AF25 for jack

with AF25 grid and connectors

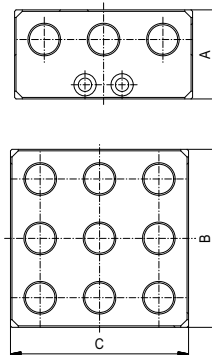
Nr.	A	B	C	
98218	50	150	150	1.823



### Top block AF40 for jack

with AF40 grid and connectors

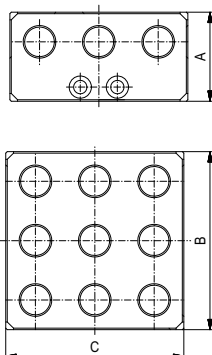
Nr.	A	B	C	
98219	60	120	120	2.150



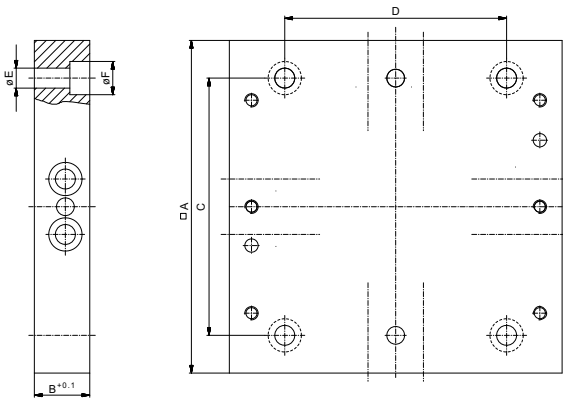
### Top block AF50 for jack

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.



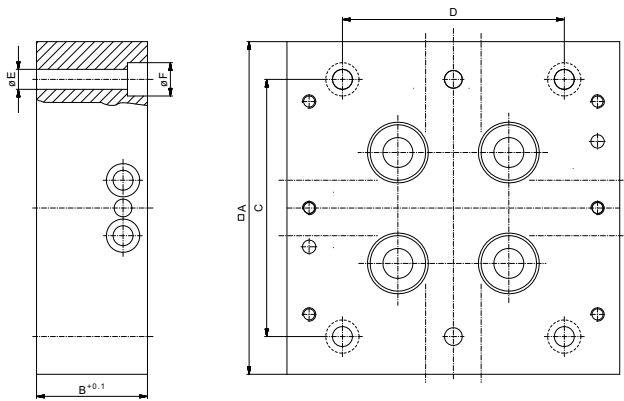
### Top block

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



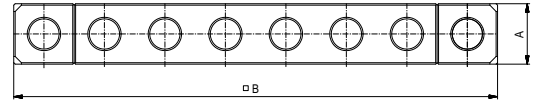
**ALUFIX CLASSIC** elements can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request.

Other dimensions on request

### Base plate for jack

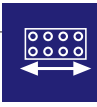
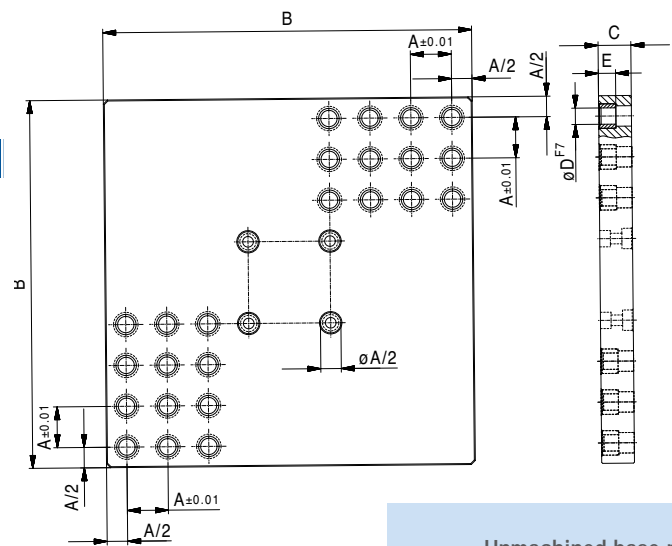
grid AF25, including connectors

Nr.	A	B	
98221	50	400	13.050

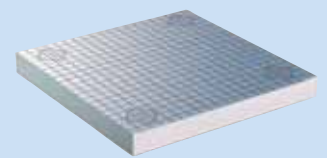


### Base plate for jack

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



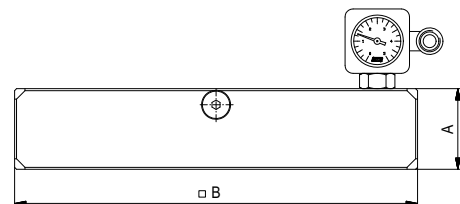
Unmachined base plates for jacks  
or individually manufactured  
base plates on request



### Base plate for jack

with hovercraft and magnetic function, including connectors

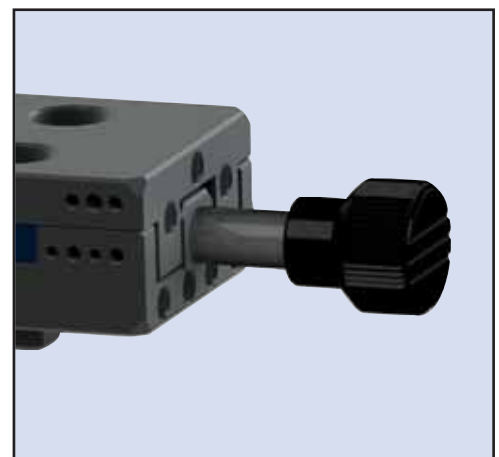
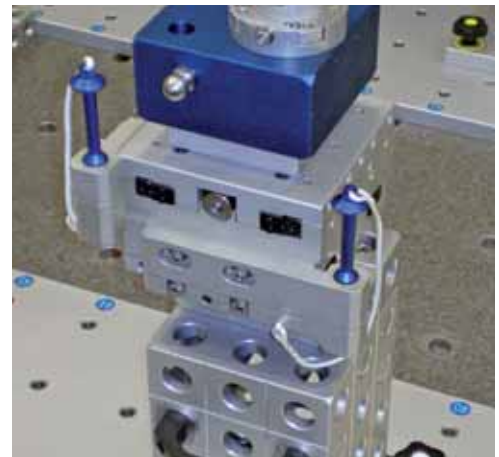
Nr.	A	B	
281196	67	300	18.000





## ALUFIX

### roller and guiding slides



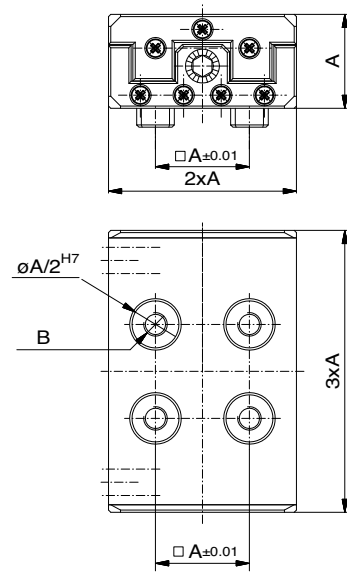
**ALUFIX CLASSIC** elements can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request.



## Roller slide

adjustment using a screw spindle

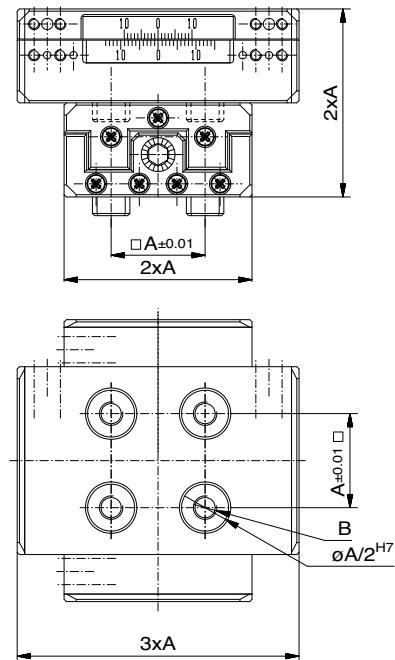
Nr.	A (AF)	B	max. load	shift	
82453	16	M4	20 kg	± 9	89
82172	25	M6	50 kg	± 13,5	242
82173	40	M10	150 kg	± 22	970
82398	50	M12	250 kg	± 27	1.910



## 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



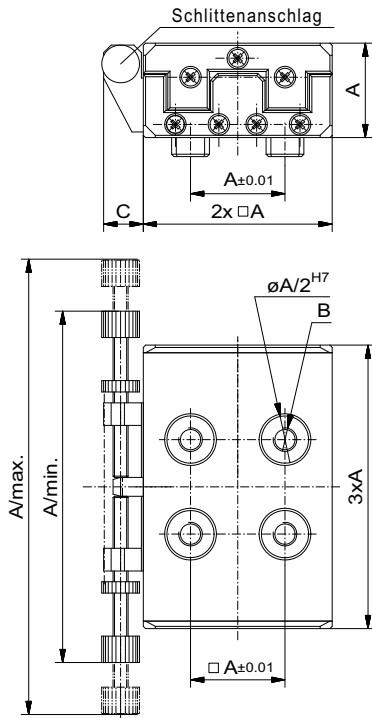
Preference item:  
Articles with green diamond →  
are available ex stock!



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



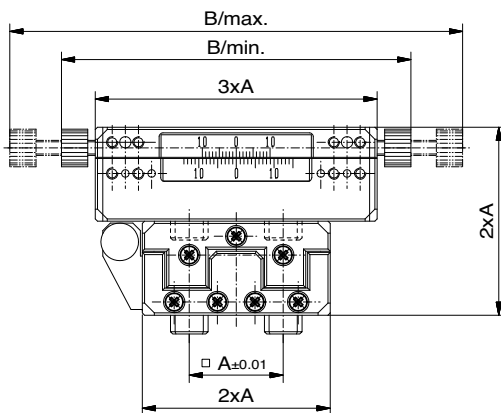
Other dimensions on request



## 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	



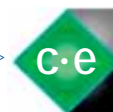
## Cross guiding slide with slide stop

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!

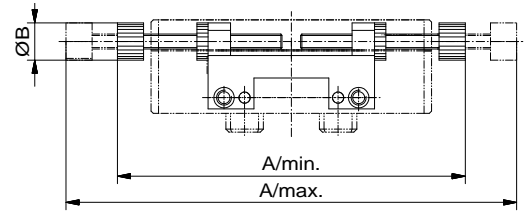


→ Article colour anodized natural  
→ Classic and/or ECO  
→ Article colour anodized black

## Slide stop

for guiding or roller slides

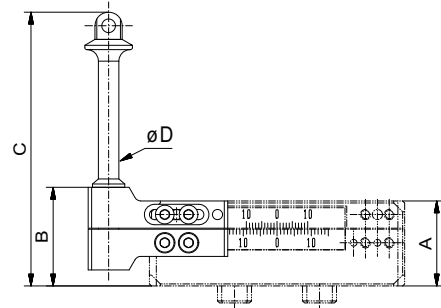
Nr.	AF	A/min	A/max	B	
82411	16	59	77	6,4	98
82412	25	93	120,5	10	115
82413	40	146,8	192	16	131
82414	50	186	242	19	140



## Positioning guide and pin

to fix guiding slides in "0" position

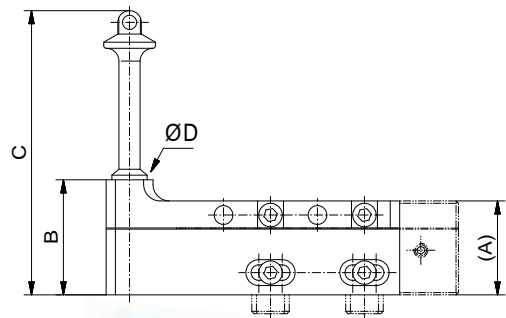
Nr.	A(AF)	B	C	øD	Type	
83120	16	18,5	52,5	4,5	left	-
84323	16	18,5	52,5	4,5	right	-
82711	25	29	80,5	6	left	50
84321	25	29	80,5	6	right	50
82833	40	47	119	8	left	180
84320	40	47	119	8	right	180
83083	50	58	135	12	left	294
84322	50	58	135	12	right	294



## Positioning guide and pin

to fix heavy duty (HD) guiding slides in "0" position

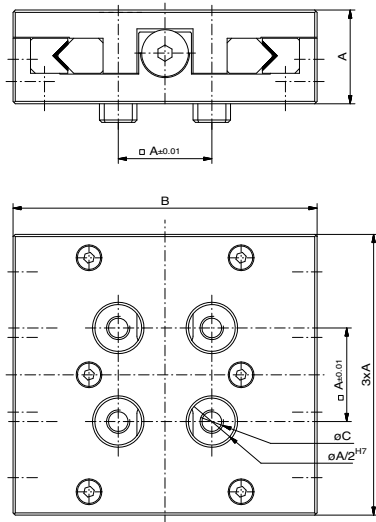
Nr.	A(AF)	B	C	D	Type	
92642	25	30,5	82	6	left	240
92643	25	30,5	82	6	right	240
92644	40	49	121	8	left	372
92645	40	49	121	8	right	372
92646	50	61	138	12	left	586
92647	50	61	138	12	right	586



**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

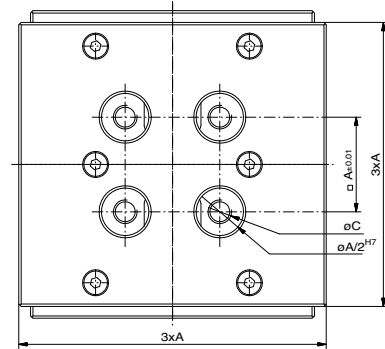
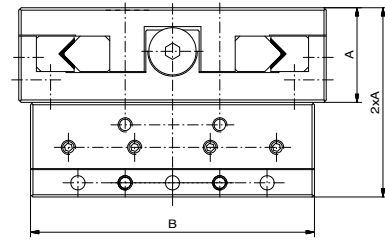
Nr.	A (AF)	B	C	max. load	shift	
92031	25	79	M6	75 kg	+/- 12,5	900
92425	40	130	M10	225 kg	+/- 20	4.000
92426	50	158	M12	375 kg	+/- 25	7.000

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



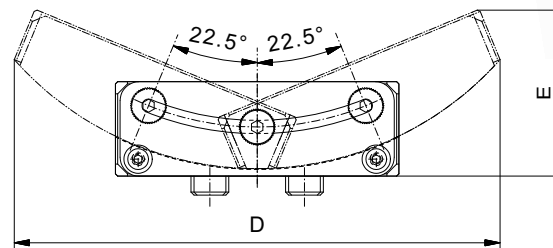
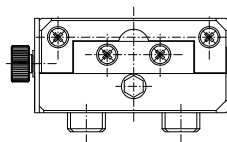
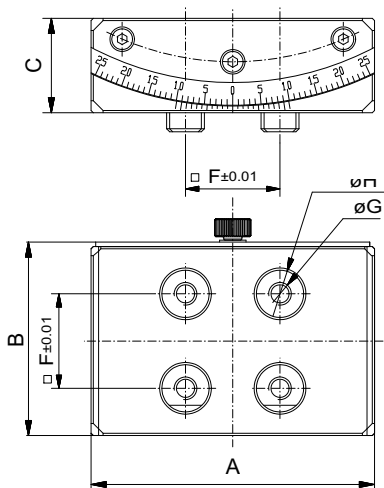
Version with roller bearings



## 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



**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.

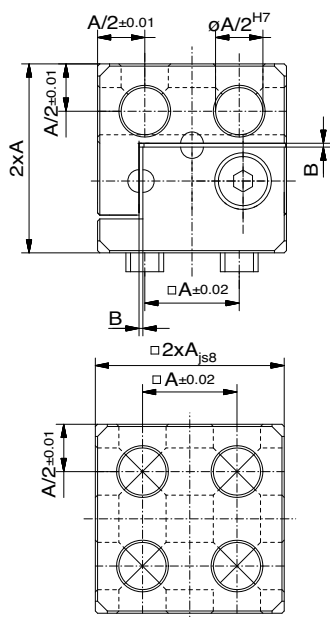


## ALUFIX shim blocks

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



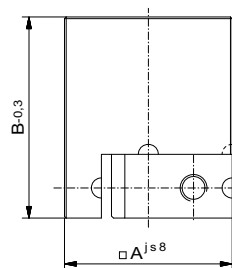
### Contour block

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

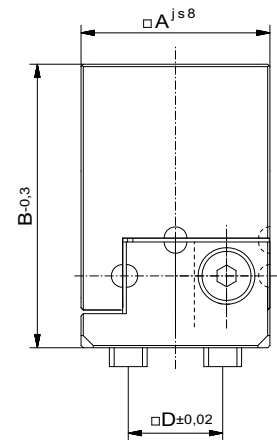


### 3D Shim block with integrated contour block

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



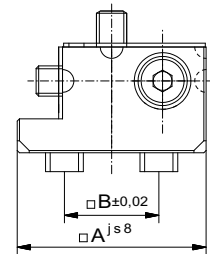
Application example: Clamping unit with ratchet clamp mounted on machined contour block (green) with 3D shim block base



### 3D Shim block base, side mounting

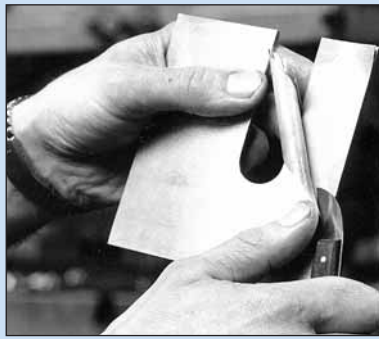
complete with shims and screws

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.

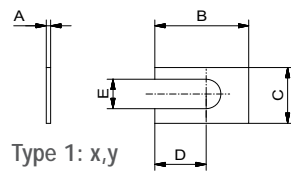
ALUFIX shim blocks are available in a mirrored version on request



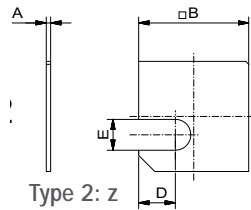
Peelable shim foil for gaps between elements, in various thicknesses. Comprises of 0,05mm thick laminated alu-foils. The easy process of peeling with a knife can be carried out on the spot when spacers are required.

The advantages:

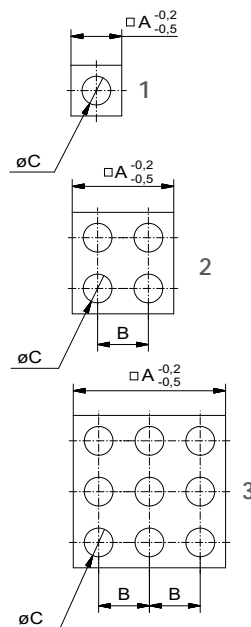
- Tolerances are evened out making remachining jobs such as milling, grinding etc. unnecessary
- Reduces setting up times
- Reduces amount of machining required



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

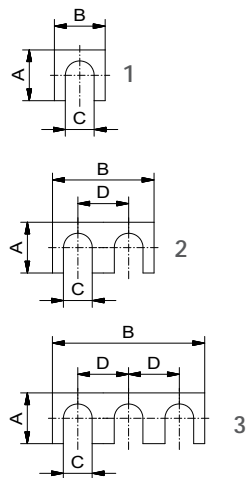
peelable, 2mm thick, in 0,05mm layers

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

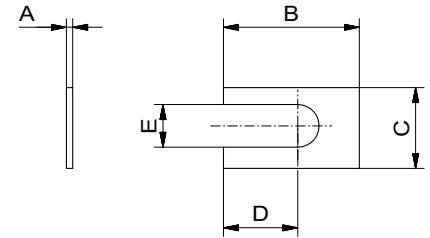
Nr.	A
128005	0,05
122010	0,1
122020	0,2
122030	0,3
122040	0,4
122050	0,5
122070	0,7
122080	0,8
122100	1,0
122150	1,5
122200	2,0

### 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



Type 2: z



## Shim (with fixed thickness)

for setting of shim blocks in z axis

### AF 25, Type 2

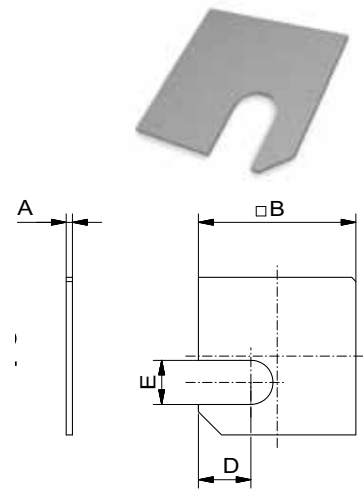
B=37,5 C=37,5 D=12,5 E=10

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

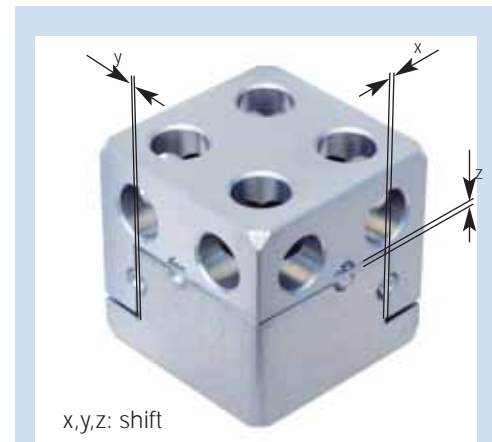
### AF 40, Type 2

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

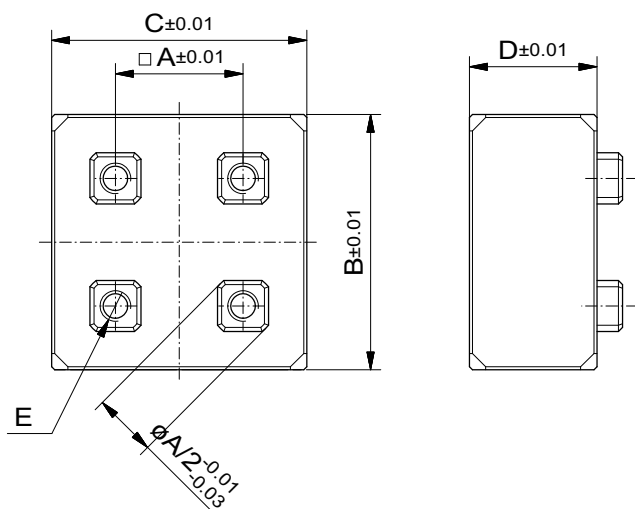


Last three digits of order number correspond to shim thickness in 1/100mm.



x,y,z: shift

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

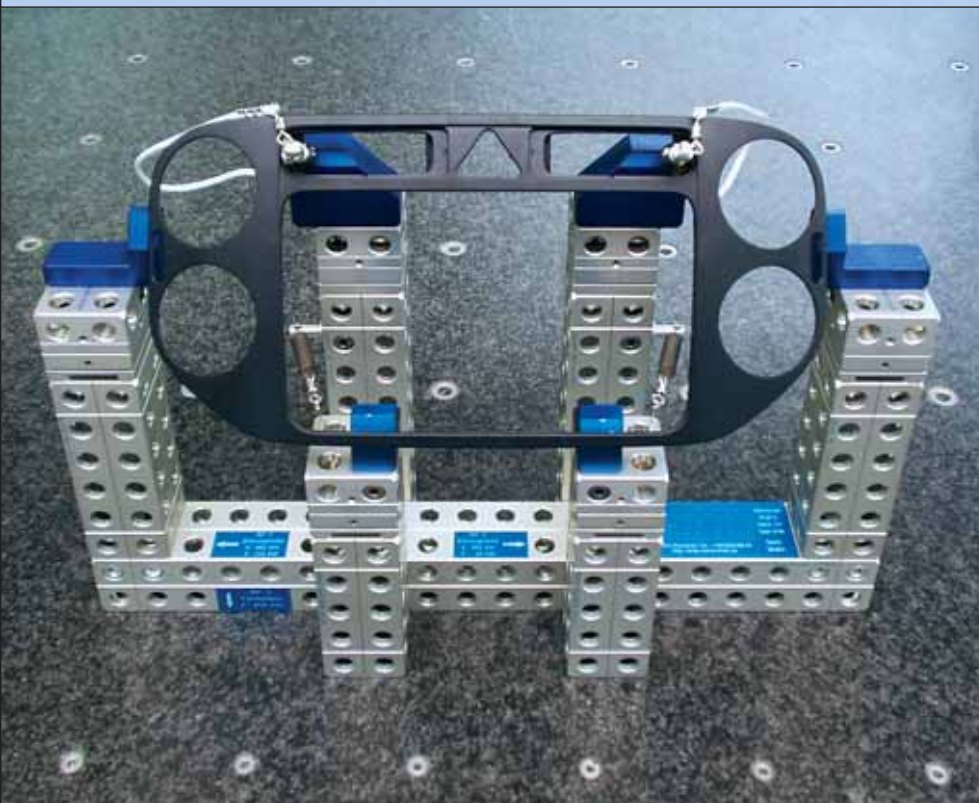
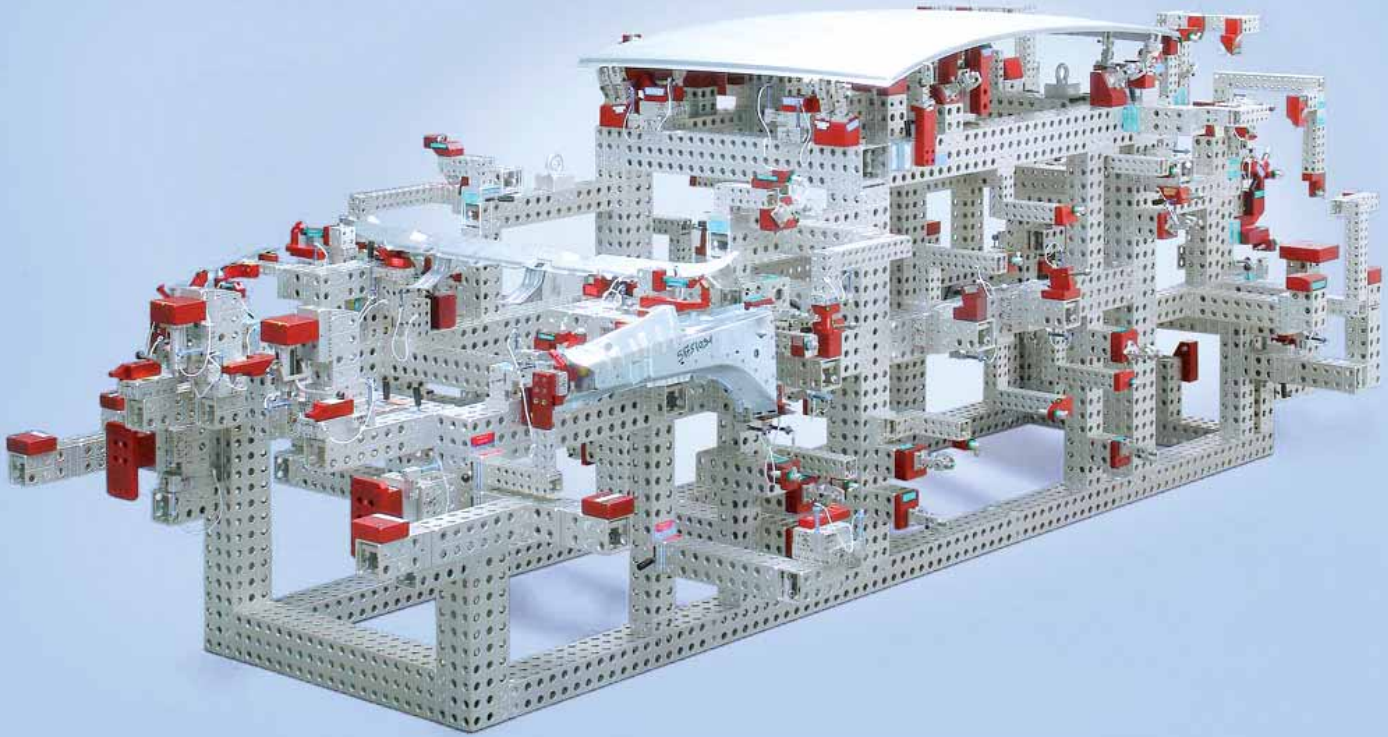
Nr.	A(AF)	B	C	D	E	
23366	25	25	25	25	M6	45
23367	25	25	50	25	M6	89
23368	25	50	50	25	M6	179
23617	25	50	75	25	M6	268
25312	25	25	50	50	M6	179
23369	25	50	50	50	M6	358
25314	25	50	75	50	M6	536
23618	25	100	100	50	M6	1.430
23630	40	40	40	40	M10	183
23631	40	40	80	40	M10	366
23632	40	80	80	40	M10	732
23633	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



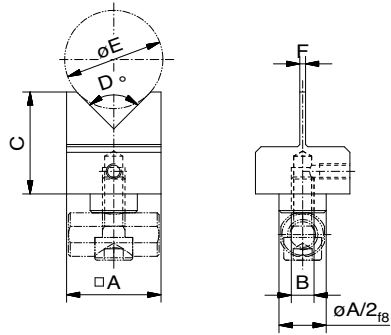
# ALUFIX CLASSIC V Pieces and Delta Blocks



### V piece 90°

single

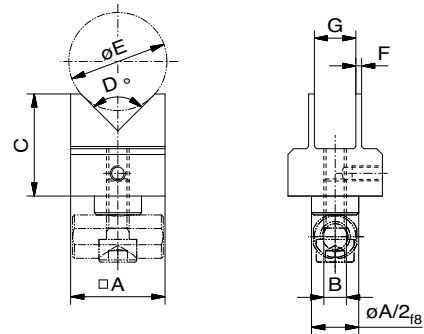
Nr.	A(AF)	B	C	D	E	F	
80923	16	M4	17,5	90°	max.ø 17	1	9
82230	25	M6	27	90°	max.ø 26	1,5	32



### V piece 90°

double, V narrow

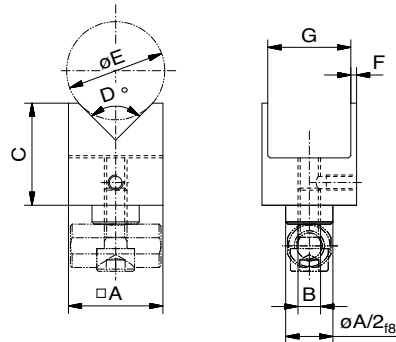
Nr.	A(AF)	B	C	D	E	F	G	
80921	16	M4	17,5	90°	max.ø 17	1	7	10
82232	25	M6	27	90°	max.ø 26	1,5	11	35



### 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. $\varnothing$	
21991	16	45	51
21992	25	70	185
21272	40	113	189
28173	50	142	1.362



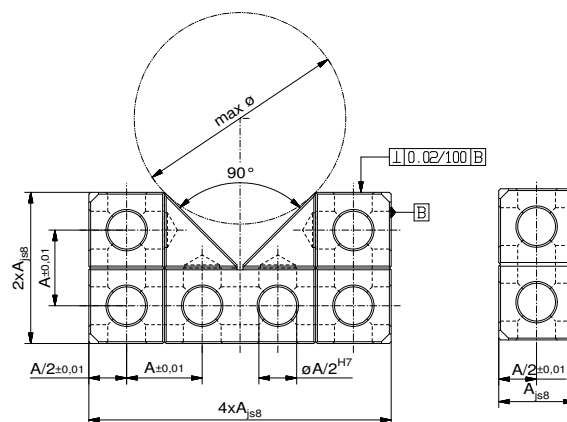
with hard metal surface

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



with magnetic surface

Nr.	A(AF)	max. $\varnothing$	
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 →  
are available ex stock!



→ Article colour anodized natural

→ Article colour anodized black

## V block 120°

standard version

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



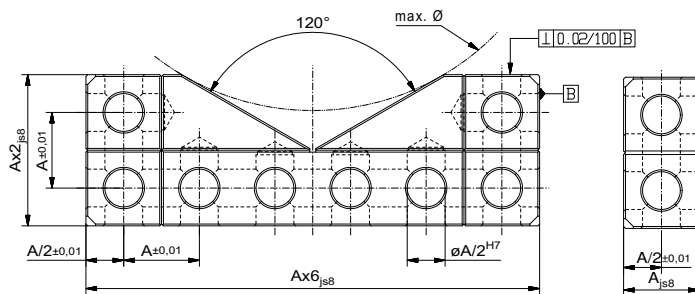
with hard metal surface

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



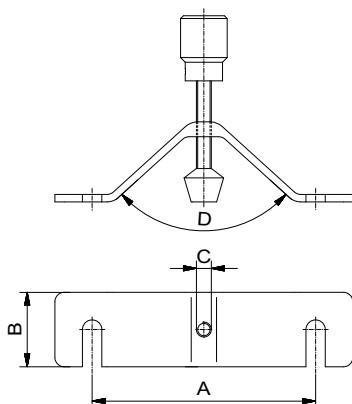
with magnetic surface

Nr.	A(AF)	max. $\emptyset$	
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.

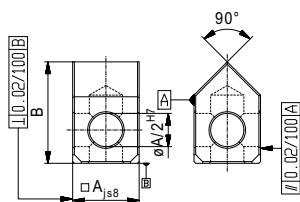
Surface of V blocks also available with polymer insert (POM, black) on request



## Clamp bracket

for V-block

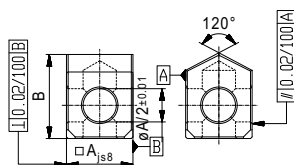
Nr.	System	A	B	C	D	g
288281	AF 16	48	16	M4	90°	70
288282	AF 16	80	16	M4	120°	90
285344	AF 25	75	25	M6	90°	80
285345	AF 25	125	25	M6	120°	100
285346	AF 40	120	40	M8	90°	210
285347	AF 40	200	40	M8	120°	270



## Delta block 90°

Form 1

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



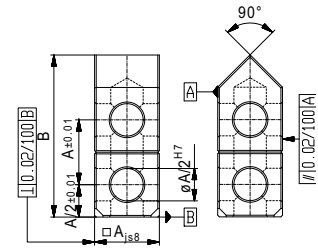
**ALUFIX CLASSIC** Alufix Classic elements can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request.



### Delta block 90°

Form 2

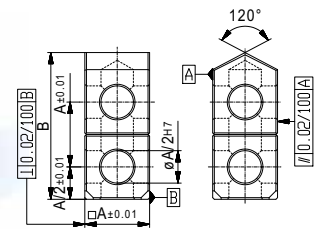
Nr.	A(AF)	B	
22176	16	40	16
22177	25	62,5	61
22178	40	100	253
28044	50	125	750



### Delta block 120°

Form 2

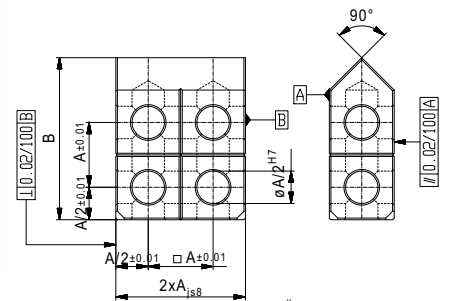
Nr.	A(AF)	B	
22252	16	36	15
22253	25	56,25	57
22254	40	90	234
28047	50	112,5	453



### Delta block 90°

Form 3

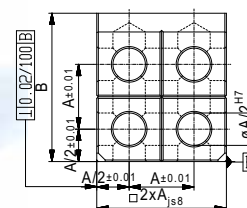
Nr.	A(AF)	B	
22173	16	40	18
22174	25	62,5	123
22175	40	100	506
28045	50	125	981



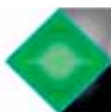
### Delta block 120°

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)

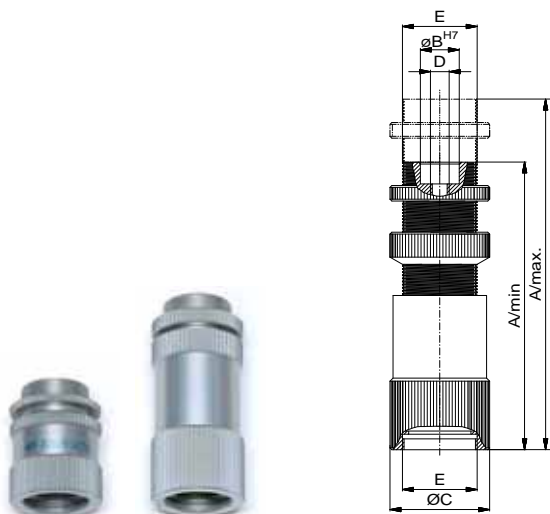


Foot plates, connection elements



Fixing disks (see pages 119, 120)

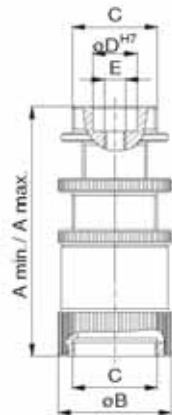




## Screw-jack

with precision thread and check nut

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

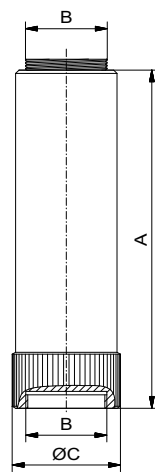


## Screw-jack with anti-turn lock

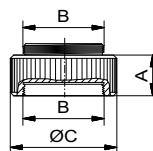
D32 and D42

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



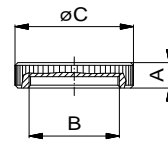
-> Article colour anodized natural

-> Article colour anodized black

## Cap for screw-jack

aluminium or plastic

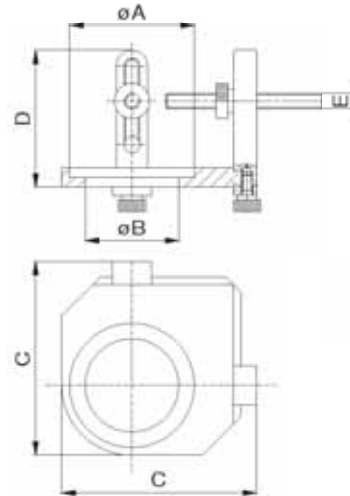
Nr.	Material	A	B	C	
21667	Alu	6,5	M24x1	32	10
21669	Alu	8,5	M32x1	42	18
21666	POM	6,5	M24x1	32	4
21668	POM	8,5	M32x1	42	9



## XY-Stop

for screw-jack

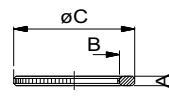
Nr.	A	B	C	D	E	
285204	32	24	50	35	M4	32
285205	42	32	65	46	M5	68



## Ring for screw jack

for use with top sections

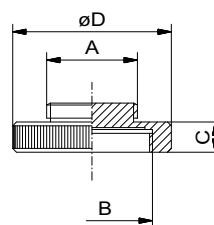
Nr.	A	B	C	
25683	2,5	M24x1	32	2



## Cross over

male/female

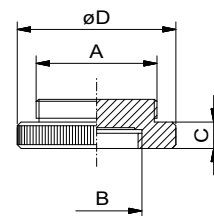
Nr.	A	B	C	D	
21659	M24x1	M32x1	8	42	21



## 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

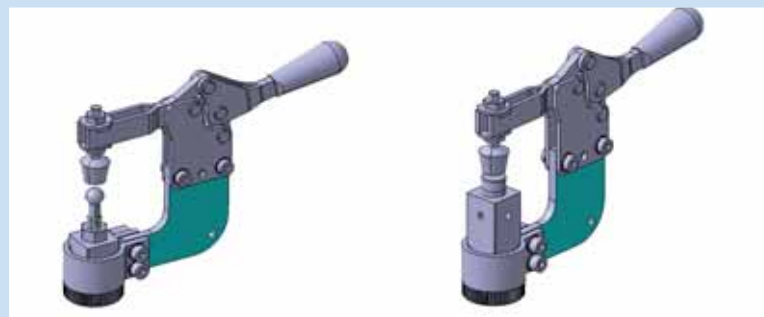
Remaining top sections:  
High tensile aluminium, anodized

Clamp units for use with screw jacks.

Versions with

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

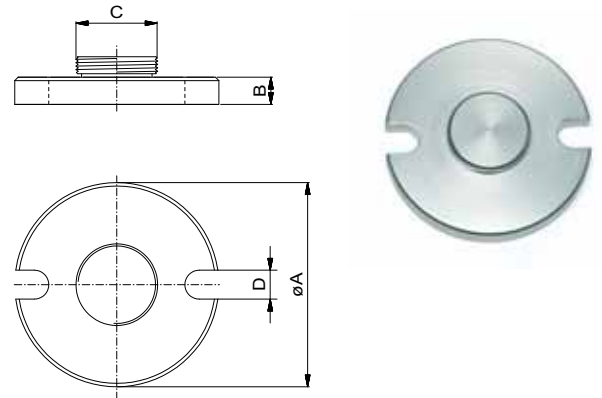
are available



## Universal plate

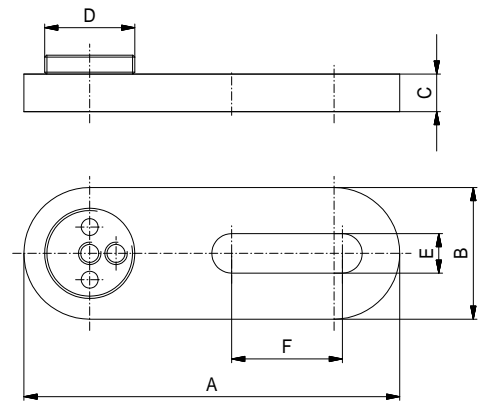
for connection independant of grid

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



## Clamping plate

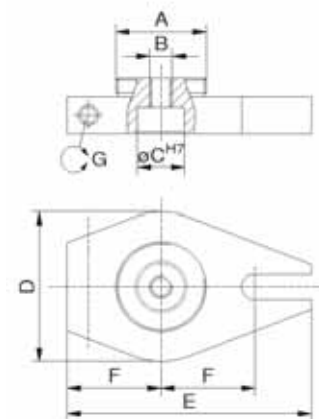
Nr.	A	B	C	D	E	F	
85232	100	35	10	M24x1	10,5	29,5	85



## Footplate

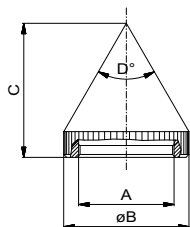
with pivot pin

Nr.	A	B	C	D	E	F	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.

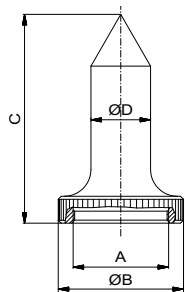
Other dimensions on request



## Center

short

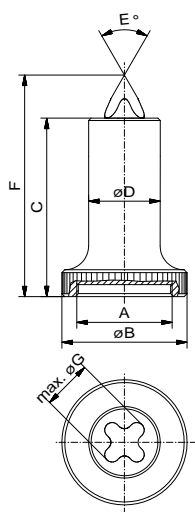
Nr.	A	B	C	D	
21644	M24x1	32	35	60	30
21645	M32x1	42	45	60	66



## Center

long

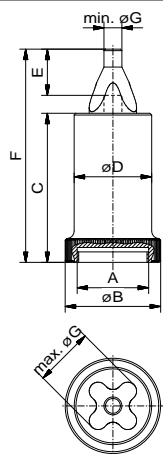
Nr.	A	B	C	D	
23638	M12x0,5	16	27,5	8	4
21646	M24x1	32	50	12,5	25
21648	M24x1	32	75	12,5	33
21647	M32x1	42	70	20	67
21649	M32x1	42	120	20	106



## Auto-center

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



## Auto-center

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

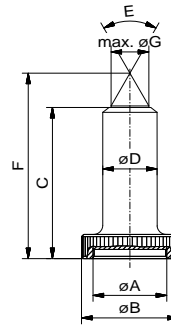
-> Article colour anodized black



### Autocenter

spring loaded

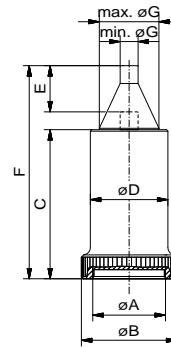
Nr.	A	B	C	D	E	F	min.Ø	max.Ø	g
81212	24x1	32	50	18	60	61	1	12,5	40



### Autocenter

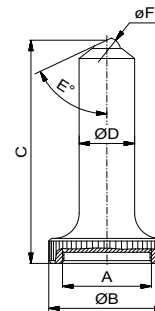
spring loaded, with check pin

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

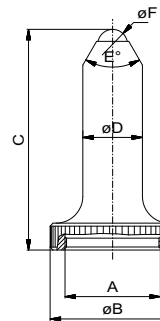


**i** True line studs are also available in polymer (POM, black) on request

### 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

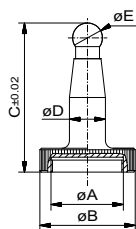


**i** Centers with ball are also available in polymer (POM, black) on request



**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.

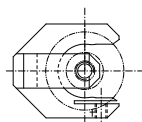
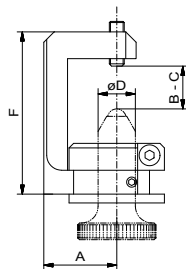
**i** Other dimensions on request



## Centering element

with reference ball

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



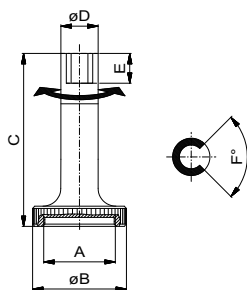
## C clamp

adjustable, without center with ball

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

## Stop and support 90°

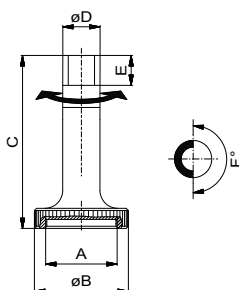
swivel top, fixing screw



Nr.	A	B	C	D	E	F	
81113	M24x1	32	58	12,5	10	90	26

## Stop and support 180°

swivel top, fixing screw

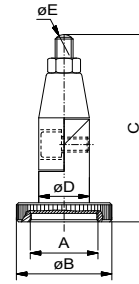


Nr.	A	B	C	D	E	F	
81112	M24x1	32	58	12,5	10	180	27

### Center

with ball and joint

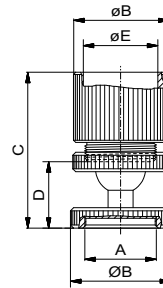
Nr.	A	B	C	D	E	
82174	M24x1	32	57-67	17	6	37



### Magnetic holder

with ball joint

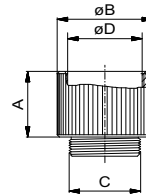
Nr.	A	B	C	D	E	
80941	M24x1	32	52,3	22,2	25	85



### Magnetic holder

without ball joint

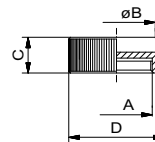
Nr.	A	B	C	D	
80948	22	32	M24x1	25	60



### Moulding cap

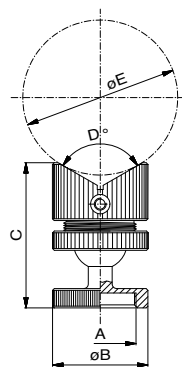
for use with compound resin

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.

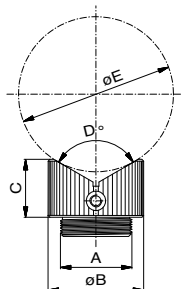
Other dimensions on request



### V block 120°

with ball joint

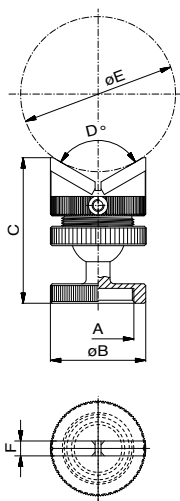
Nr.	A	B	C	D	E	
80733	M24x1	32	49	120	max. 52	58



### V block 120°

without ball joint

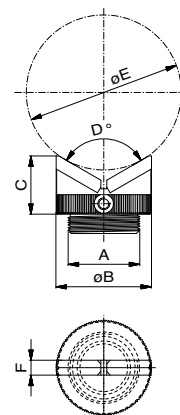
Nr.	A	B	C	D	E	
22286	M24x1	32	19,4	120	max. 52	34



### Knife V 120°

with ball joint

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



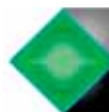
### Knife V 120°

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!



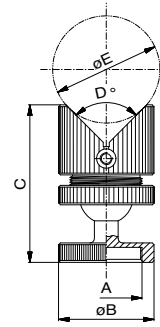
-> Article colour anodized natural

-> Article colour anodized black

### V block 90°

with ball joint

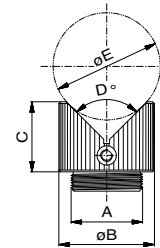
Nr.	A	B	C	D	E	
80725	M24x1	32	53	90	max. 36	61



### V block 90°

without ball joint

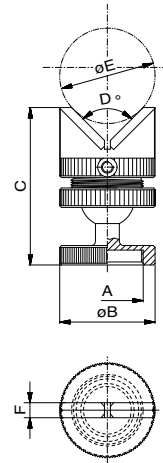
Nr.	A	B	C	D	E	
22285	M24x1	32	23,5	90	max.36	30



### Knife V 90°

with ball joint

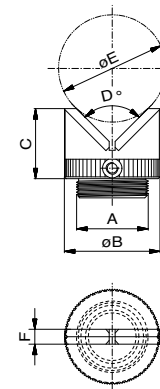
Nr.	A	B	C	D	E	F	
80926	M24x1	32	53	90	max. 32	5	42



### Knife V 90°

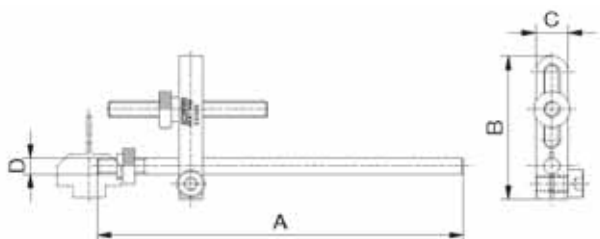
without ball joint

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.

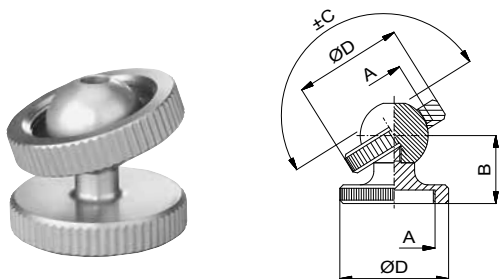
V Blocks are also available in polymer (POM, black) on request



## Stop M4

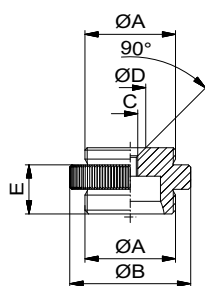
for V-piece

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



## Ball joint

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



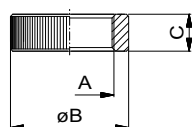
## Crossover

male/male, for ball joint

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



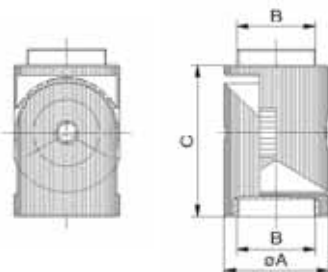
M4 thread can be connected with studs from FX range as location pin



## Spacer

M24x1

Nr.	A	B	C	g
22644	M24x1	ø32	10	10



## Joint for Screw-jacks

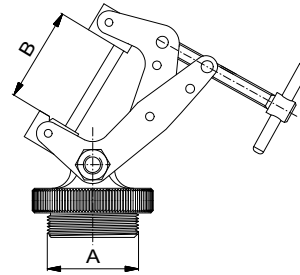
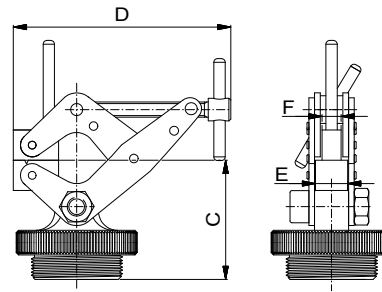
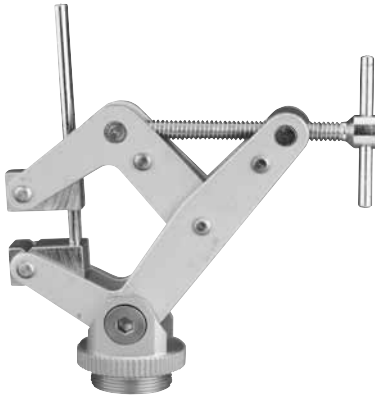
with knurled serrations grid 6° or 4°

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

## Screw clamp

with joint, connection thread M24x1

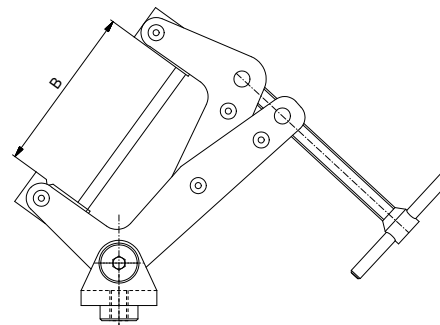
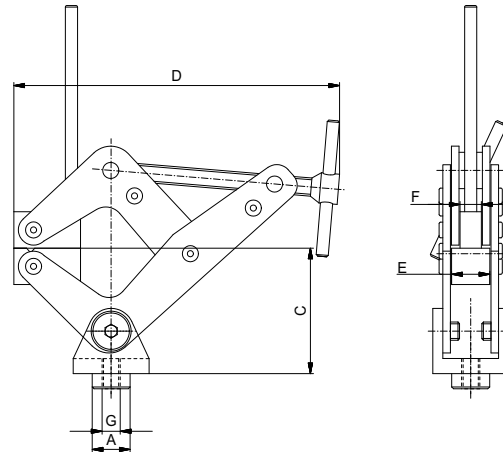
Nr.	A	B	C	D	E	F	
80949	24x1	25	32	57,5	8,5	5	51
81270	24x1	55	47,5	105	12,6	7	152



## Screw clamp

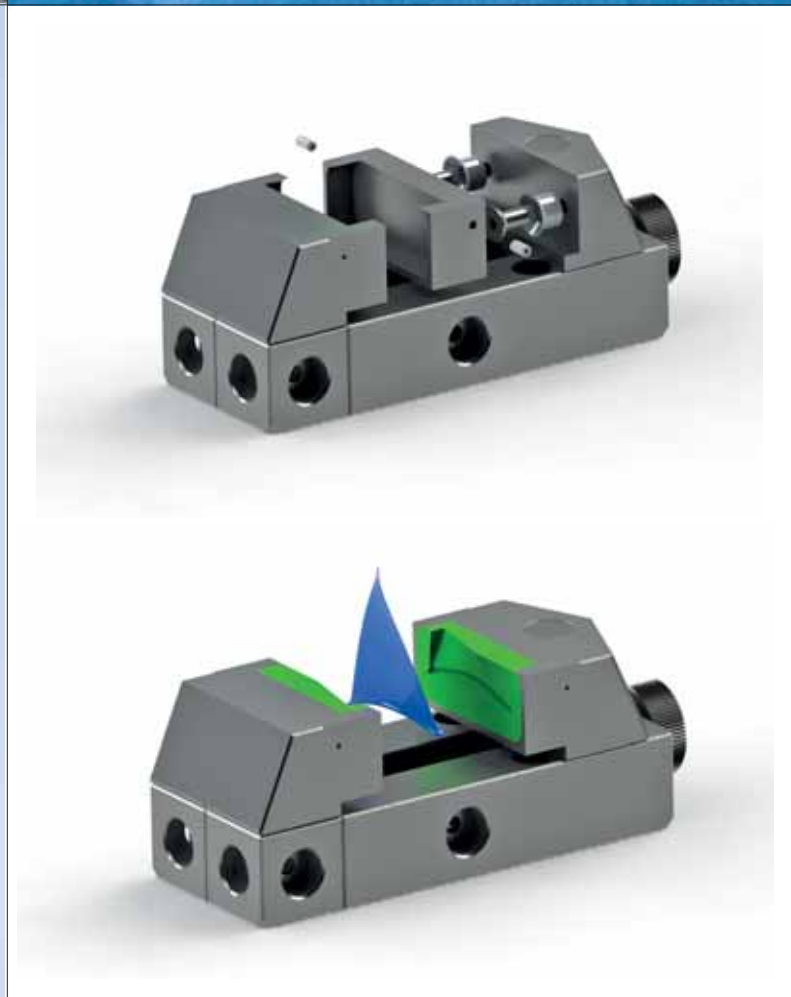
with joint, ALUFIX 25

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



**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.

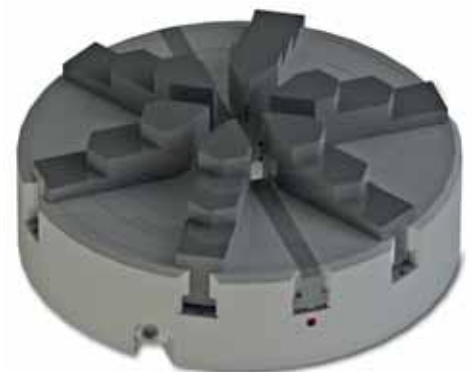
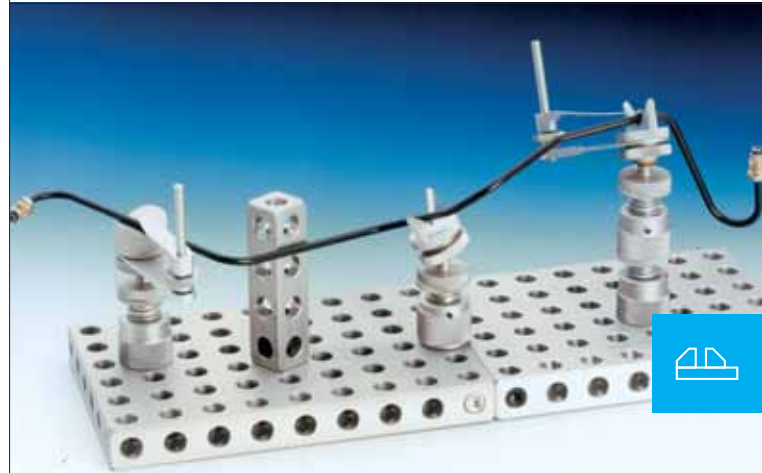
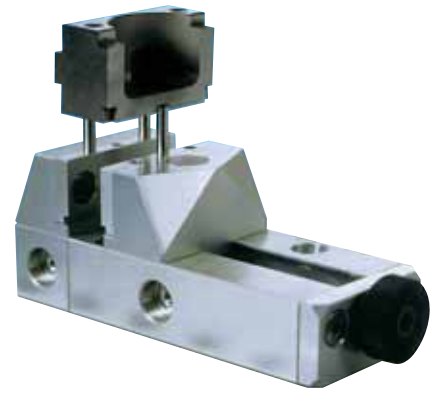
Other dimensions on request





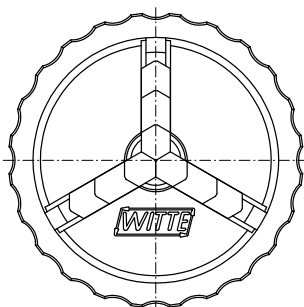
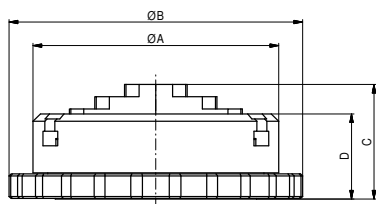
# ALUFIX CLASSIC Clamping Elements

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

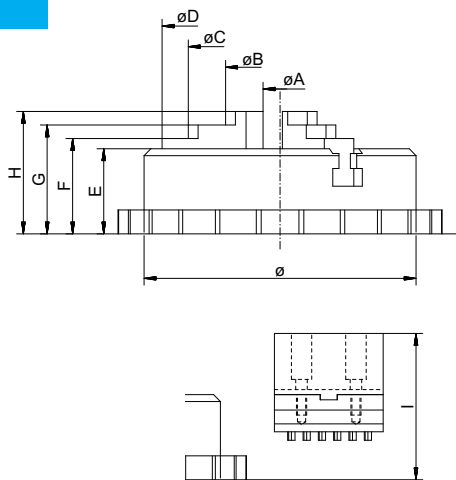


Concentricity base to part:  
Repeatable accuracy max. 0,1mm, absolute accuracy 0,3mm

## Further dimensions

3 jaw keyless chuck

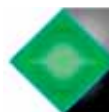
ø	A	B	C	D	E	F	G	H	I
50	1-32	15-46	29-60	41-72	17,3	18,4	21	23,4	30,3
80	1-45	23-66	45-88	65-108	25,3	27	31	35	44,8
125	1,5-68	36-100	70-134	106-170	38,4	41,3	47,1	53,1	69
200	2-110	56-164	110-218	166-274	55,3	63,1	71,1	79,1	103,3



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!



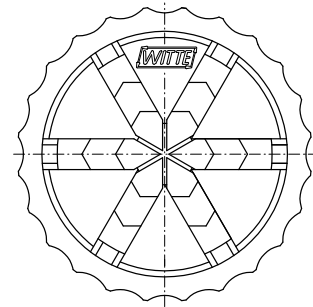
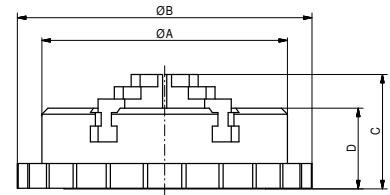
-> Article colour anodized natural

-> 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

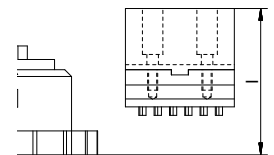
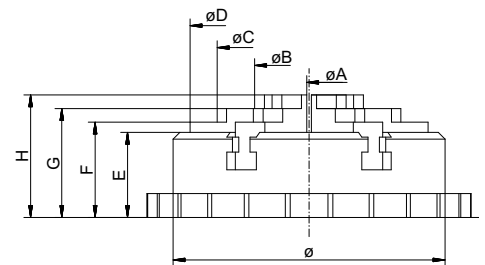


Concentricity base to part:  
Repeatable accuracy max. 0,1mm, absolute accuracy 0,3mm

## Further dimensions

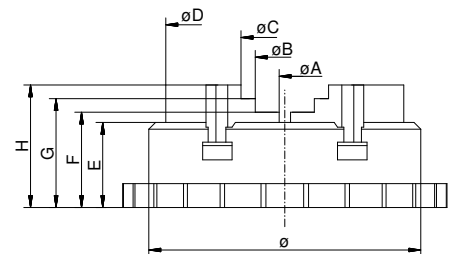
6 jaw keyless chuck

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.

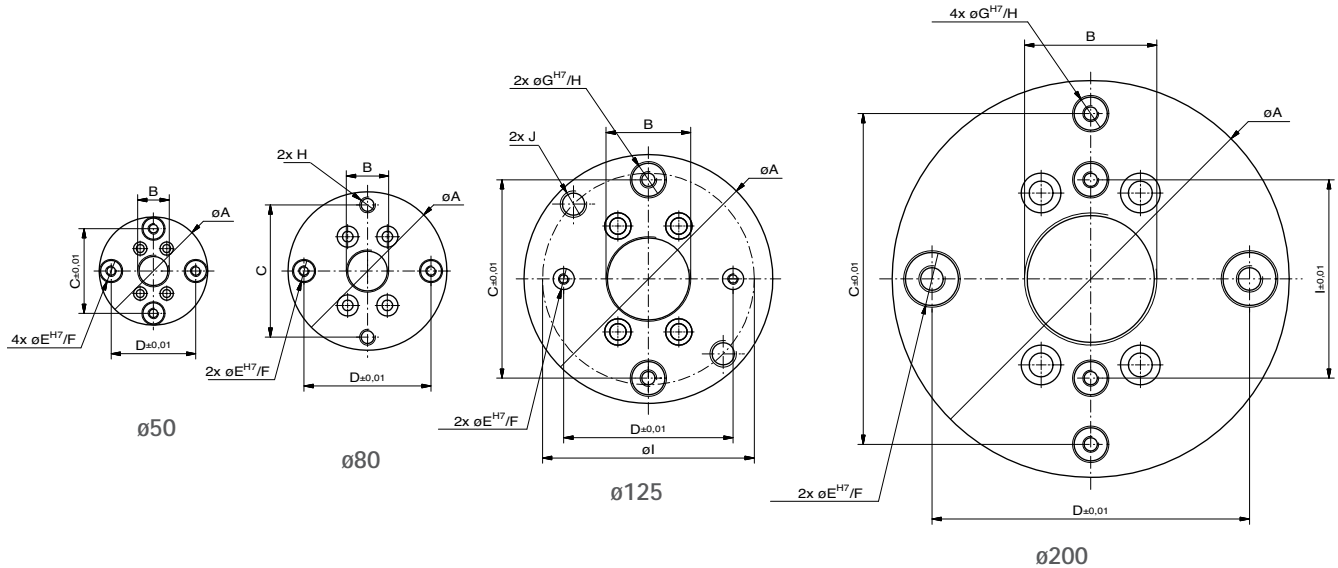
Fixing disks for mounting keyless chucks are shown on page 123. Other versions on request.

## 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.	∅	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

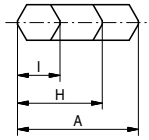
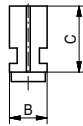
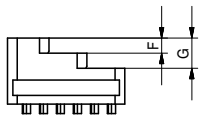
37-pcs., 1 x chuck with reversible jaws,  
1 x Base jaw set, 18 x Top jaws, 12 x Screws

Nr.	∅	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

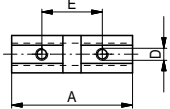
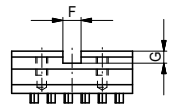
for 3 jaw chuck

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

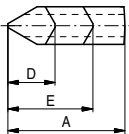
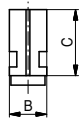
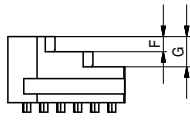
for 3 jaw chuck



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

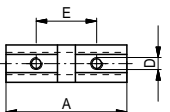
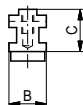
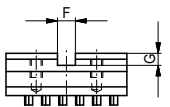
for 6 jaw chuck



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

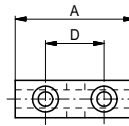
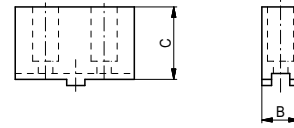


Nr	for $\varnothing$	A	B	C	D	E	F	G	
82354	50	20	5,9	6,6	M2	10	3	2	18
82358	80	32	9,9	10,9	M3	16	5	3	50
82362	125	52	15,9	17,5	M5	24	8	5	190
82366	200	82	24,9	27,5	M8	40	12	8	750

## Top jaws single

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

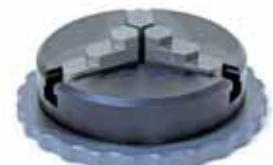
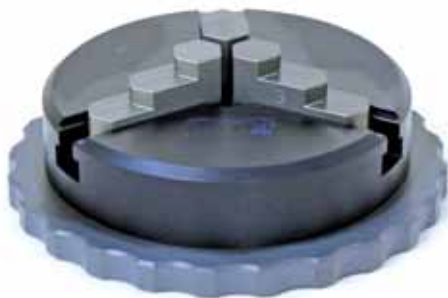
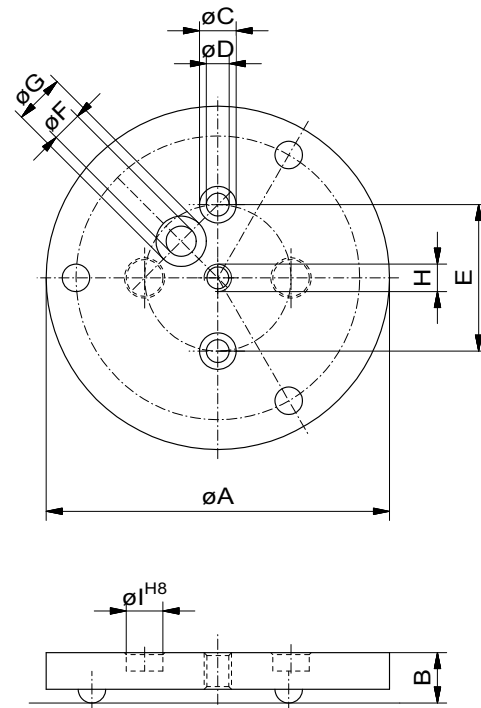
Nr	for $\varnothing$	A	B	C	D	Material	$\frac{g}{g}$
26288	50	20	5,9	12	10	EN AW-7075	3
26288-10	50	20	5,9	12	10	POM	2
26289	80	32	9,9	18	16	EN AW-7075	13
26289-10	80	32	9,9	18	16	POM	10
26290	125	52	15,9	28	24	EN AW-7075	50
26290-10	125	52	15,9	28	24	POM	43
26291	200	82	24,9	44	40	EN AW-7075	150
26291-10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

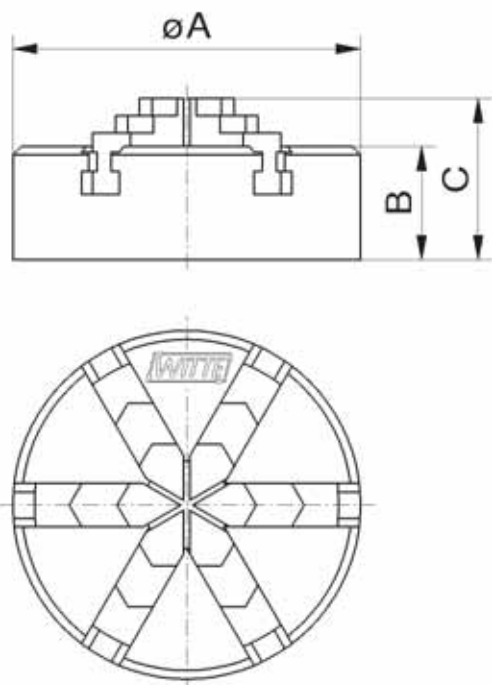


Special version hardslide coated  
3 jaw keyless chuck




**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.

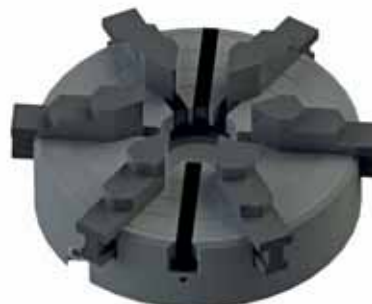
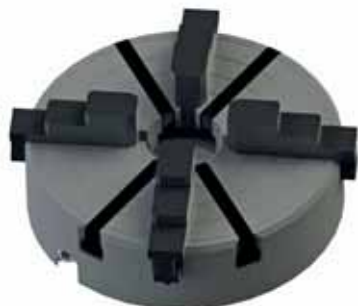
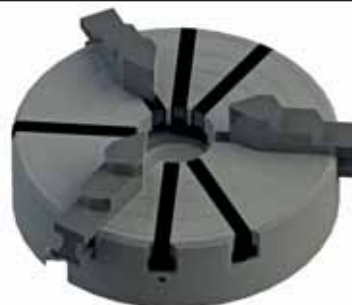
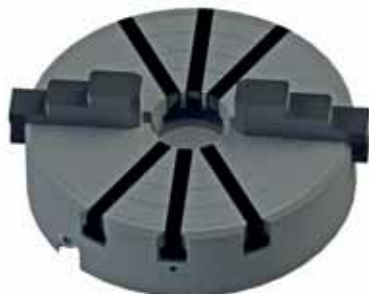
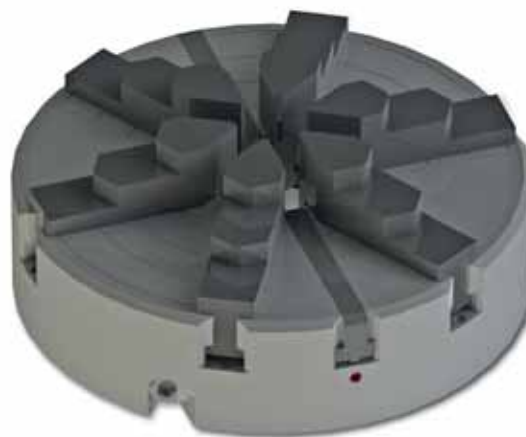
**i** Other dimensions on request




## Keyless chuck

for 2,3,4,6 jaws Ø125 anodized natural

Nr.	A	B	C	
285291	125	33	50	1300



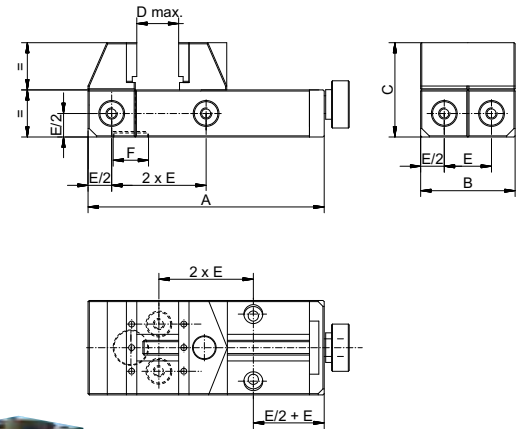
 6 stepped standard jaws are included in supply.  
Base and special jaws are available on request.  
Base same as chuck Ø125: 82125, 82135.  
Suitable Center plate: No. 287192.



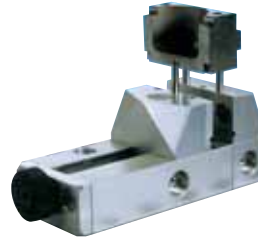
## Parallel-vise

without pins

Nr	E (AF)	A	B	C	D	E	F	H	
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

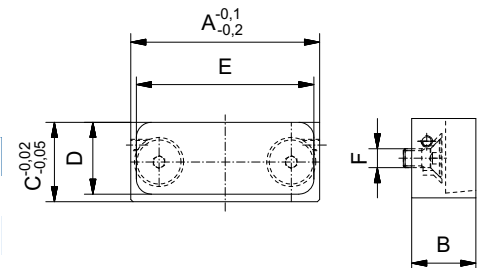


Jaws also available per piece  
Flat and V jaws are also available in polymer (POM black)

## Forming jaw

with bushes, for compound resin

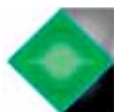
Nr	System	A	B	C	D	E	F	
81831	AF 16	32	10	13,5	12	29	M3	10
81832	AF 25	50	17	21	19	47	M5	30
81833	AF 25	75	17	21	18,5	71	M5	40
81834	AF 25	100	17	21	18,5	96	M5	60
81835	AF 40	120	34	33,5	30	112	M8	170
81836	AF 40	160	34	33,5	30	152	M8	226



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/cm<sup>2</sup>

Compression strength: 800kg/cm<sup>2</sup>

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.



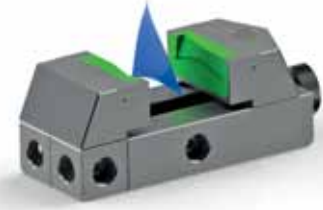
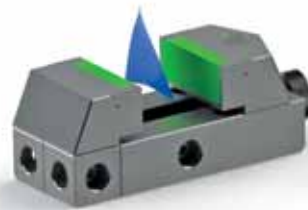
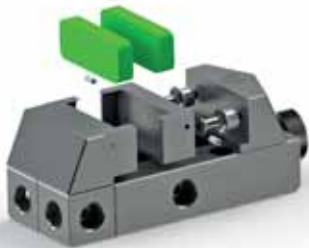
Application example for compound resin in standard moulding cap

Attaching the forming jaws with plasticine compound:

Positioning of workpiece:

The forming jaws with the compound resin are pressed together.

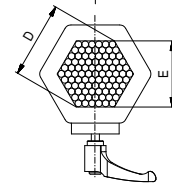
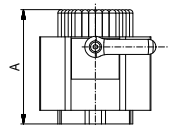
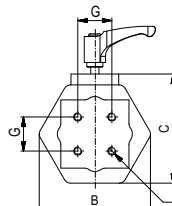
The compound resin adjusts to the contours of the workpiece



## 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.

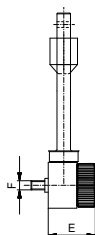
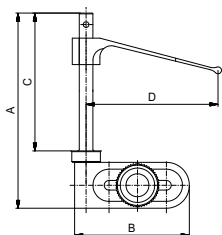
Then by using a locking device the resulting imprint is secured into place. This enables repeatable clamping of workpieces, that can be secured with hold down springs and studs.

## Hold-down column clamp

for pin cushion, in set (2 pieces)

with hold down columns and springs

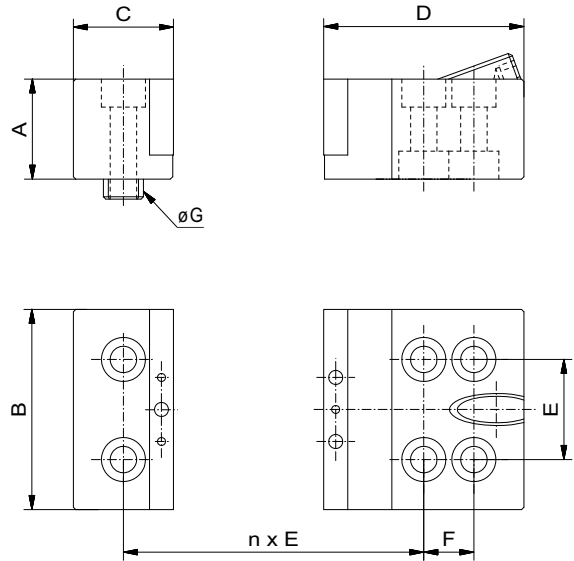
Nr	A	B	C	D	E	F	
91941	85	50	60	57,5	20,5	M4	80



## Universal Vise

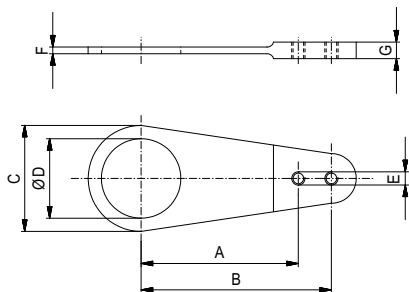
2 pcs., without basic unit for mounting on base plates or grid base plates, Shift  $\pm 12,5$  mm

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

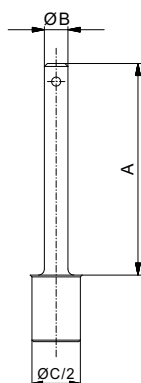


Mounted between screw jacks (page 74) and top sections (page 78)

## Traverse holder with heel

for hold-down stud

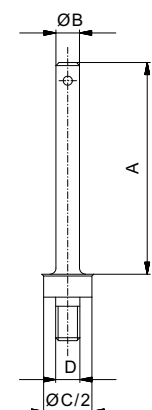
Nr.	A	B	C	D	E	F	G	
22267	47,5	57,5	32	24	M4	2	5	11
22268	47,5	57,5	32	24	M6	2	5	11



## Hold down stud

self locking

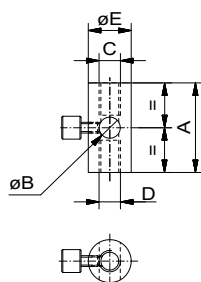
Nr.	A	B	C	
20338	35	3,9	16	3
22259	55	5,9	16	5
22260	60	5,9	25	9



## 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

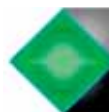


## Cross connector

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!



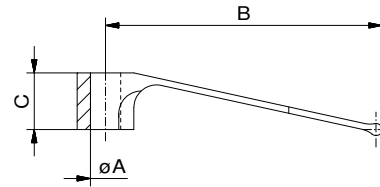
-> Article colour anodized natural

-> Article colour anodized black

## Hold down spring

self locking on hold down stud

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

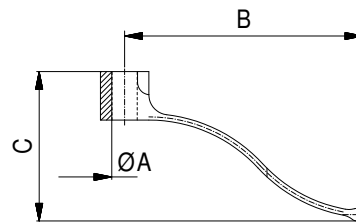
### Further versions in NewXS catalogue



## Hold down spring

for low clamping

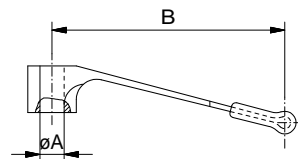
Nr.	System	A	B	C	
34634	AF 16	4	36,5	23,5	2
34764	AF 16	6	36,5	23,5	1
34765	AF 25	6	59	37	3
34766	AF 40	10	94,5	59,5	27
34767	AF 50	12	118	74	50



## Hold down spring with plastic cap

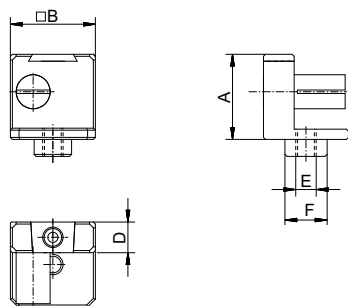
silicone free for sensitive surfaces

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



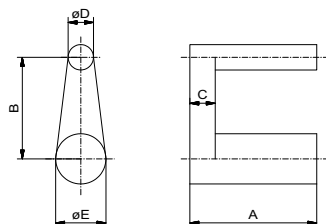
**ALUFIX CLASSIC** elements can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request.

Other versions on request



## Winder

Nr.	System	A	B	AF	D	E	F	
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

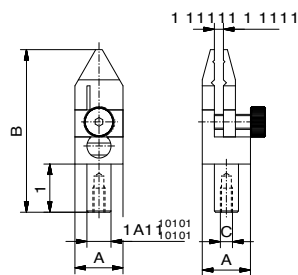
Nr.	System	A	B	C	D	E	
22274	AF 16	19	16	3	4	7,9	4
22275	AF 25	31	25	6	6	12,4	16
22276	AF 40	50	40	10	10	19,8	66



## Winder tape

in plastic, 12mm wide

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

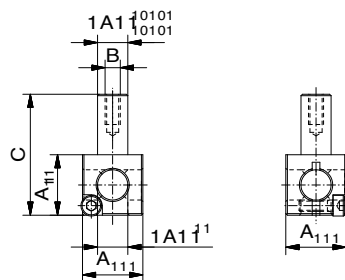


## Parallel clamp

with exchangeable jaws

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

Other versions of exchangeable jaws available on request



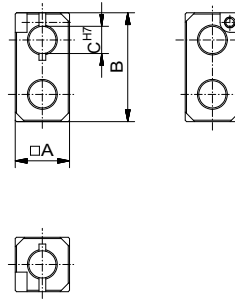
## Clampholder

with studs

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

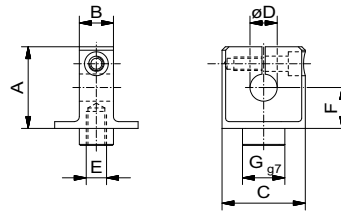
### Dial indicator holder

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



### Dial indicator holder

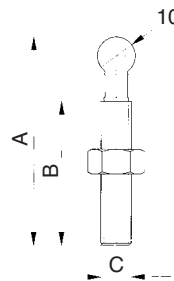
Nr.	System	A	B	C	D	E	F	G	
80755	AF 25	24	10	24,5	8	6	12	12,5	10
80756	AF 40	24	11,9	39,5	8	8	12	20	77



### Ball point

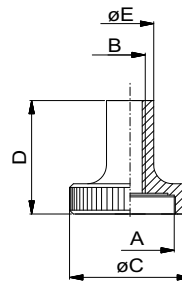
with or without ring magnet

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



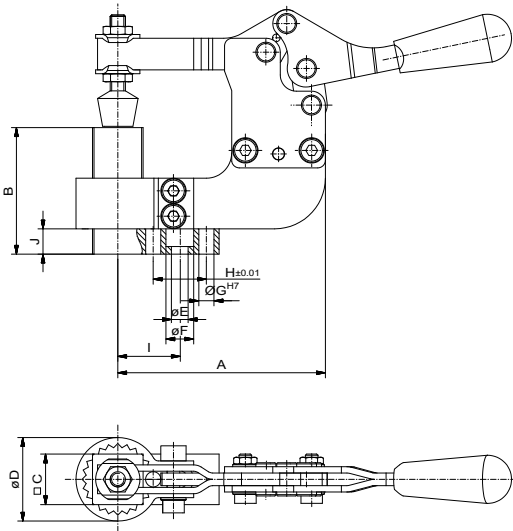
### Support for ball point

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



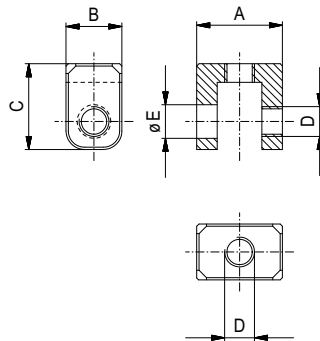
### Clamp unit with ratchet grip

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



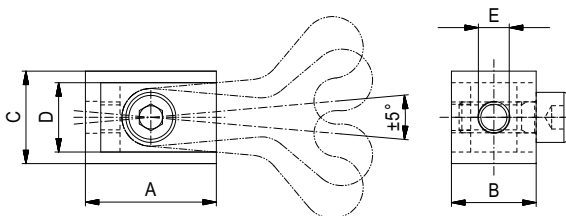
Nr.	A	B	C	D	E	
87590	23	15	23	M8	9	25



### Foot for pressure fork

limited angle

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

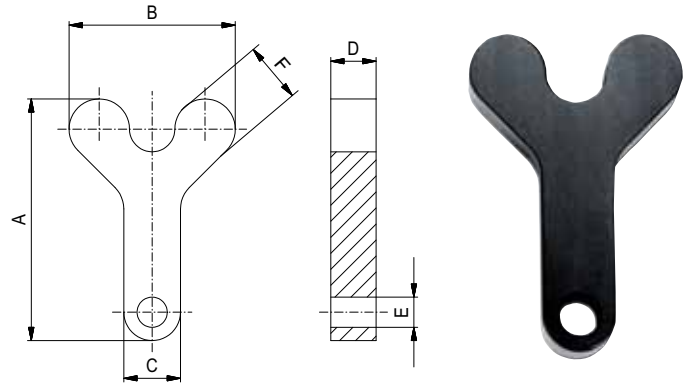
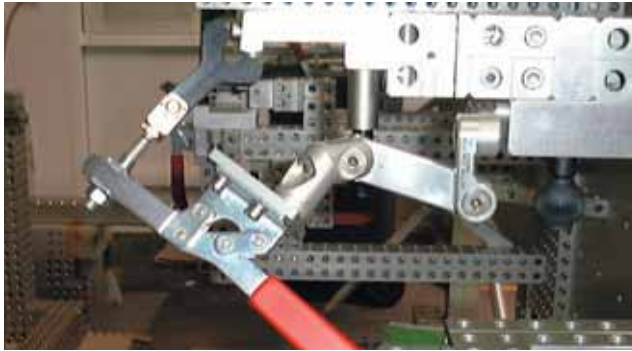




## Pressure fork

long, plastic

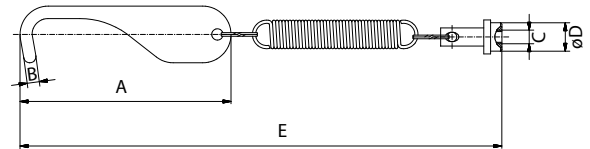
Nr.	A	B	C	D	E	F	
28367	64	44	15	12	8	16	20



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.

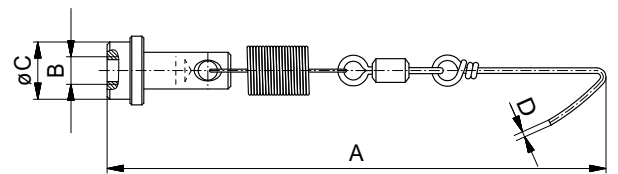
## Spring with hook

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



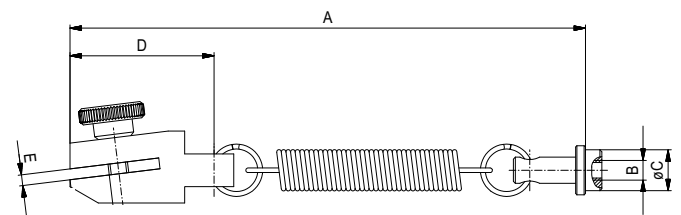
## Spring with wire hook

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



## Polymer clamp with spring

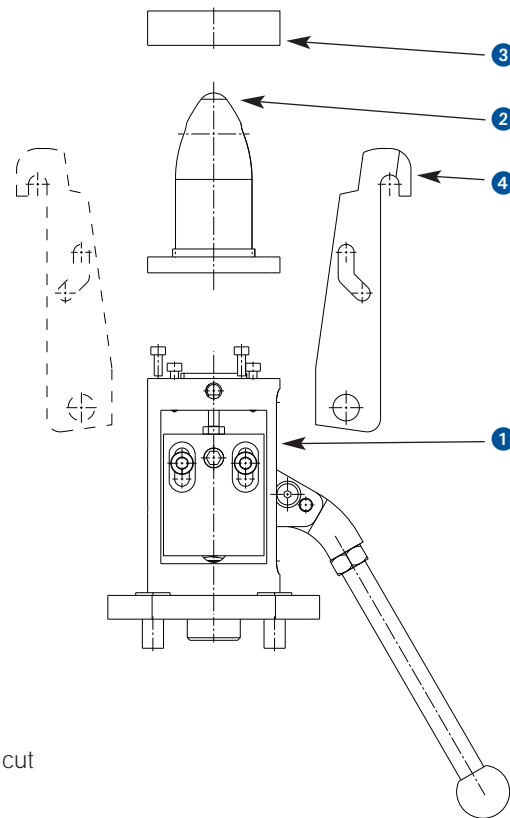
Nr.	System	A	B	C	D	E	
93497	AF 25	157	12	ø12,5	44	3,3	41



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](http://www.alufix.de/downloads)

## Hook Clamp compact

Example dia 30

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

### 1 Hook Clamp Basic Unit

Compact

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

### 2 Top pin

Compact / Compact mini

Nr.	pin dia	
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

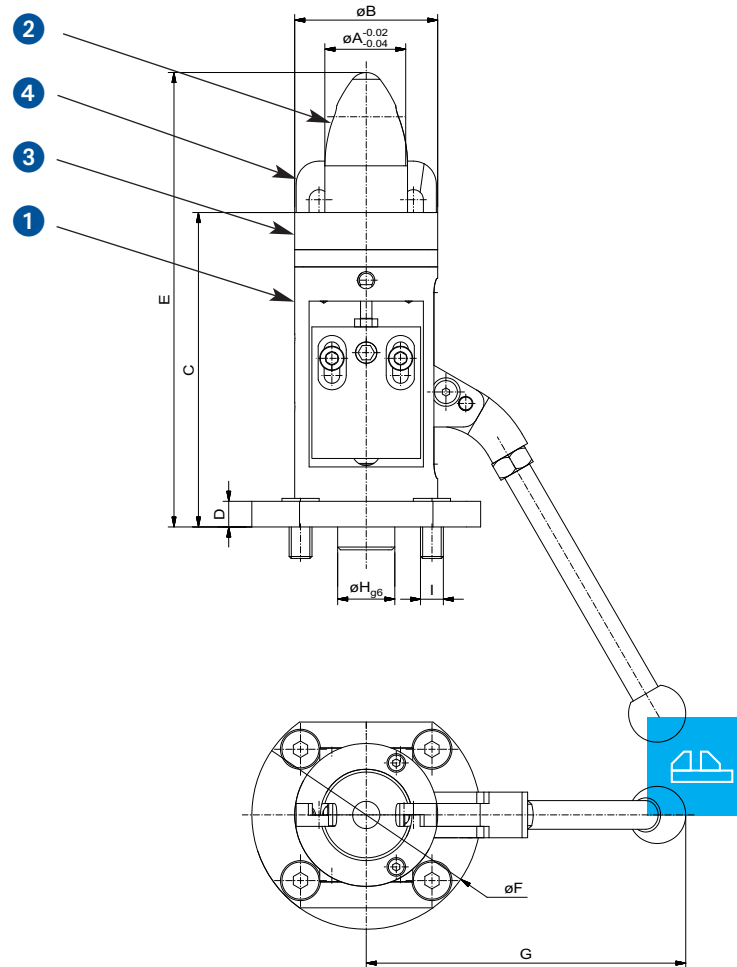
Compact / Compact mini

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

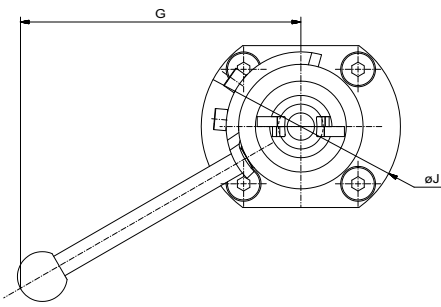
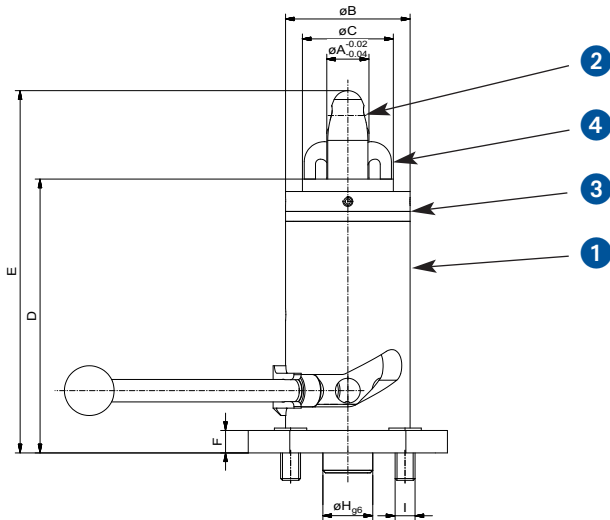


Internal excenter lever, top pin and support ring are 100% compatible (outer dimensions same as existing hook clamps). Sideways activation possible via hex key

Other dimensions 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.



## 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	Ø18-0,02mm	159
306052	Ø20-0,02mm	169
309929	Ø25-0,02mm	199
306053	Ø30-0,02mm	245
304272	Ø40-0,02mm	410

### 3 Support ring

Compact / Compact mini

Nr.	surface dia	g
311718	Ø30mm	88
311720	Ø35mm	98
306056	Ø40mm	104
311722	Ø45mm	101
306057	Ø50mm	116
311739	Ø55mm	100
304273	Ø60mm	145

### 4 Hook

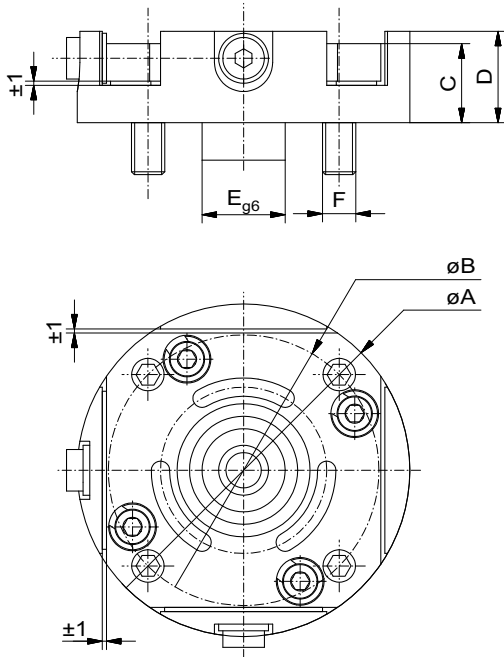
Compact flexible

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



Picture shows high base unit version #281887. Special lengths on request

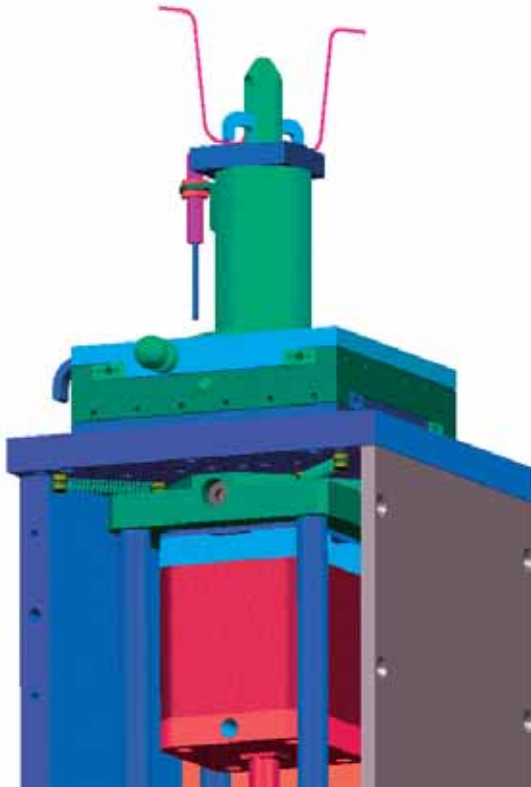
- i** Tolerances in workpiece thickness of up to +/- 0,3mm are evened out. Fast adjustment according to workpiece thickness possible. More space between operating lever and clamping surface = more freedom of movement and less part collision due to horizontal lever movement. Hook alignment independent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



### Foot for hook clamps

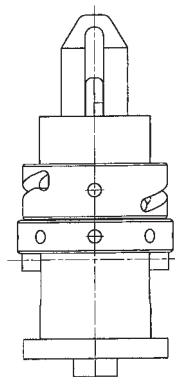
X,Y,Z shimmable including shim foils

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

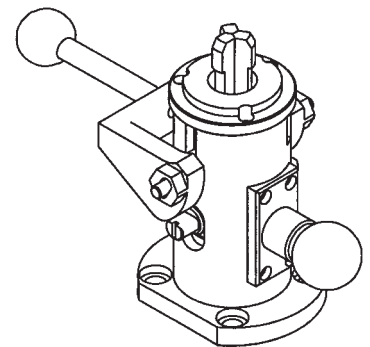


### Additional hook clamps

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



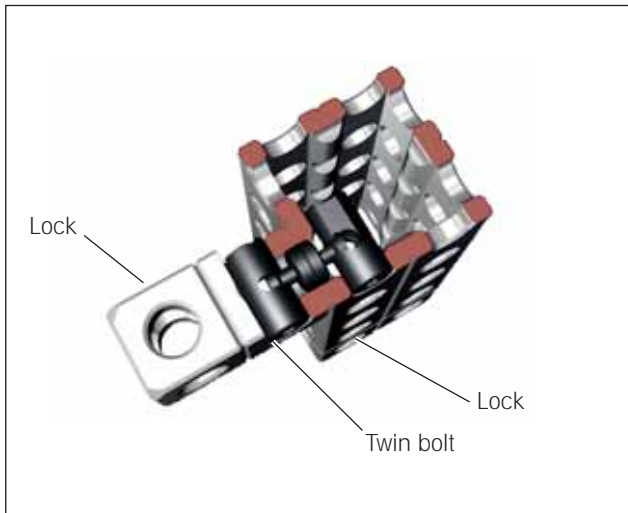
Hook clamp with excenter movement and adjustment for workpiece thickness



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.




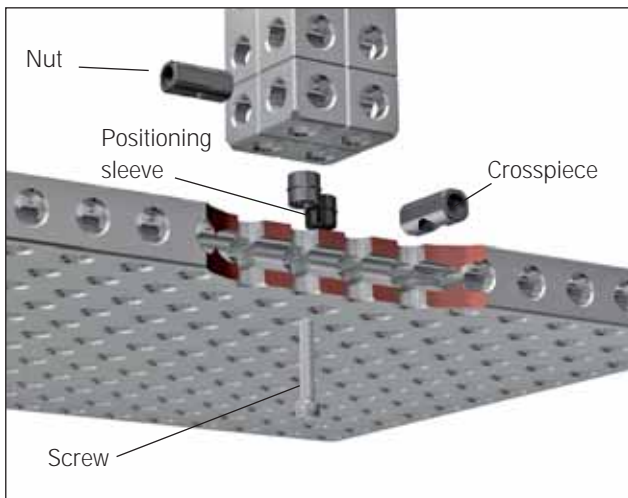
### Quick connection

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

A twin bolt is positioned between Alufix elements to be connected. An eccentric 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.



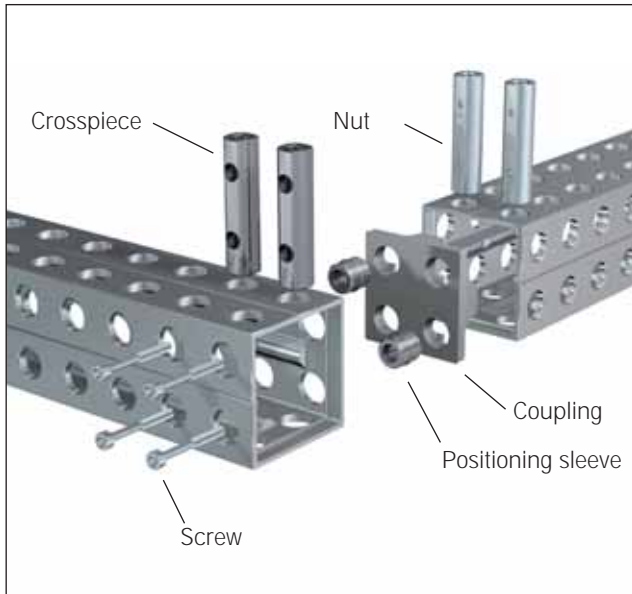
### Connecting different system sizes

Alufix elements in different system sizes are connected using

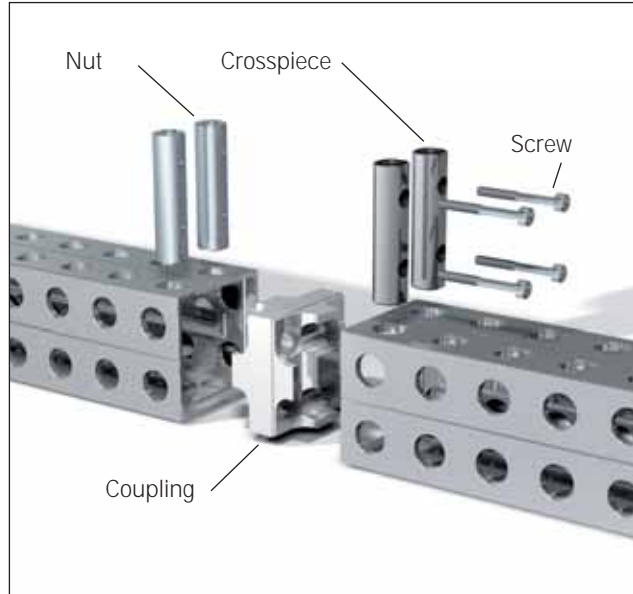
- Reducer sleeves
- Reducer bolts



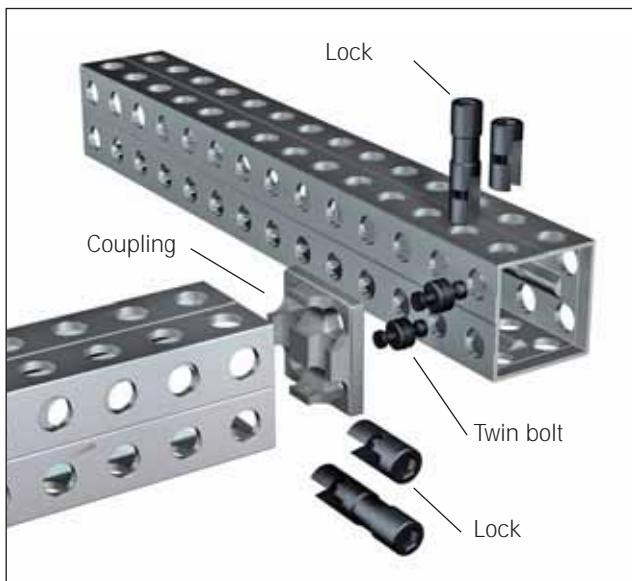
## Connecting with couplings



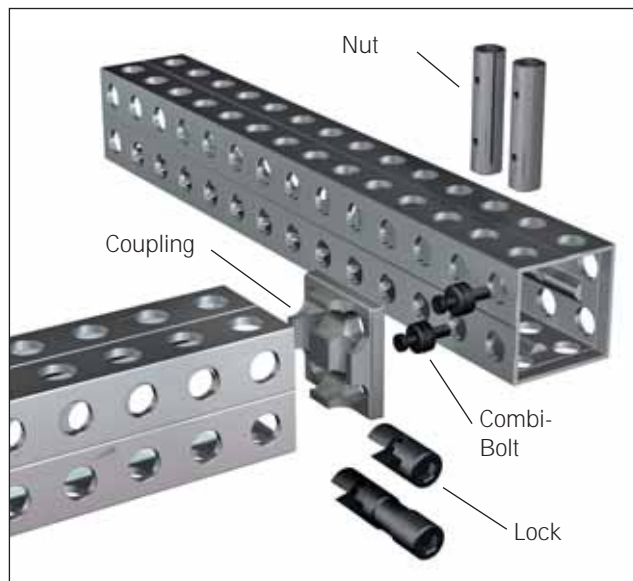
**Single coupling with screw connection** is used in face ends of Light bars for accurate positioning of further elements. Picture shows assembly using screw connectors



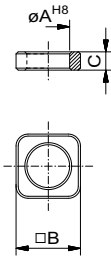
**Double coupling with screw connection** is used for centering two Light bars end to end. Picture shows assembly using screw connectors, quick connectors are also possible.



**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



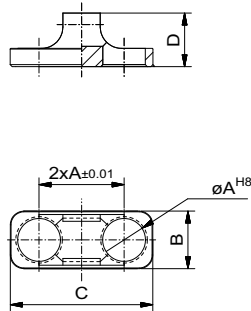
**Single coupling with screw/quick connection (combi bolt)** is used for centering two Light bars end to end. Picture shows assembly using screw and quick connectors.



### Coupling, single

for 1 row bar

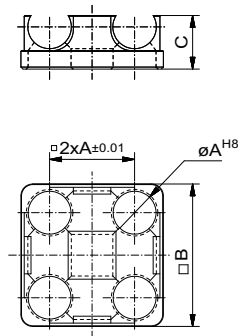
Nr.	System	A	B	C	
23315	AF 25	12,5	19	5,4	4
20794	AF 40	20	32	8,4	16
26930	AF 50	25	32	10,9	29



### Coupling, single

for rectangular bar

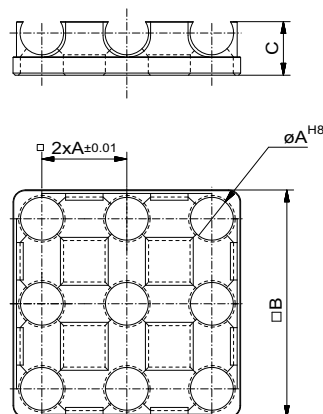
Nr.	System	A	B	C	D	
55134	AF 25	12,5	17	42	16	10
57211	AF 40	20	32	68	25	50



### 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

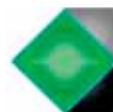


### Coupling, single

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

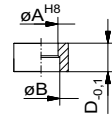
-> Article colour anodized black



### Coupling, double

for 1 row bar

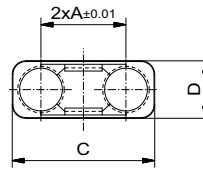
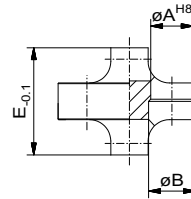
Nr.	System	A	B	C	D	
23320	AF 25	12,5	13,8	19	10,8	8
20793	AF 40	20	22	32	16,8	31
26931	AF 50	25	27,4	32	21,8	38



### Coupling, double

for rectangular bar

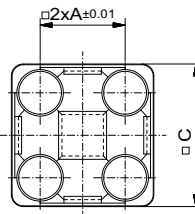
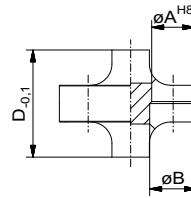
Nr.	System	A	B	C	D	E	
55316	AF 25	12,5	13,8	42	17	31,5	40
57212	AF 40	20	22	68	32	50	110



### Coupling, double

for 2 row bar

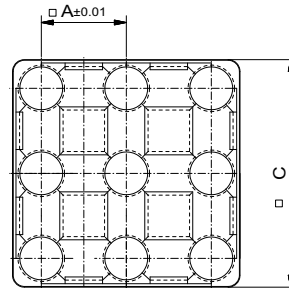
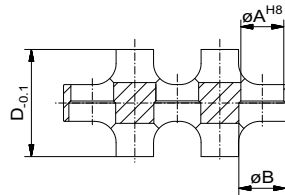
Nr.	System	A	B	C	D	
23330	AF 25	12,5	13,8	42	31,5	53
20791	AF 40	20	22	68	50,4	240
26850	AF 50	25	27,4	84	64	465



### Coupling, double

for 3 row bar

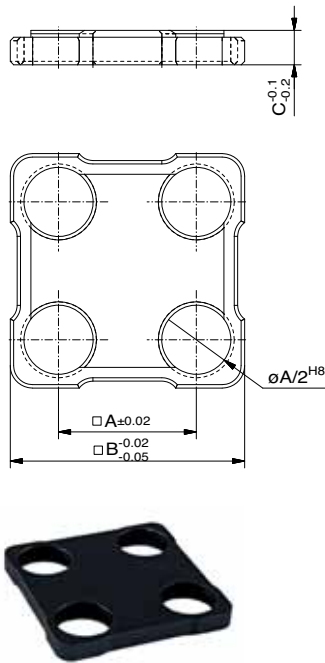
Nr.	System	A	B	C	D	
23615	AF 25	12,5	13,8	67	31,5	155
23616	AF 40	20	22	108	50,4	682
26851	AF 50	25	27,4	134	64	1.394



**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

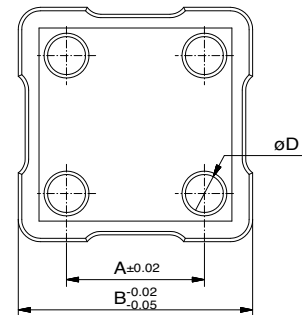
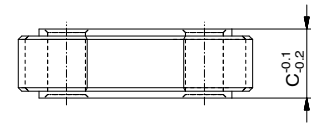
Nr.	System	A	B	C	øD	
23330-E	AF 25	25	42	10	6,6	53
20791-E	AF 40	40	68	20	11	240
26850-E	AF 50	50	84	25	13,5	465

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	-

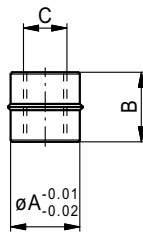


Double couplings for bar-bar connections. These couplings are used with screw connectors.



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

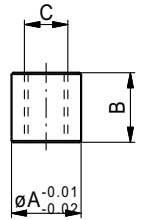
Other dimensions on request



## Positioning sleeve

with collar

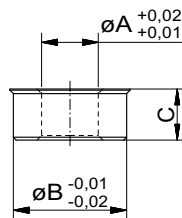
Nr.	System	A	B	C		
21600	AF 16	8	8	M5	1	
	21385	AF 25	12,5	12	M8	4
	21235	AF 40	20	18	M14x1,5	9
26732	AF 50	25	23	M18x1,5	16	



## Positioning sleeve

plain

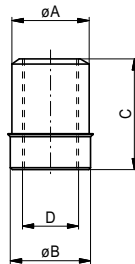
Nr.	System	A	B	C		
21599	AF 16	8	8	M5	1	
	21386	AF 25	12,5	12	M8	2
	21278	AF 40	20	18	M14x1,5	9
26733	AF 50	25	23	M18x1,5	16	



## Reducer sleeve

with collar

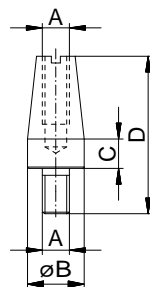
Nr.	System	A	B	C	
21990	25/16	8	12,5	6	1
22129	40/16	8	20	9	3
21236	40/25	12,5	20	9	5
26925	50/25	12,5	25	11	10



## 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



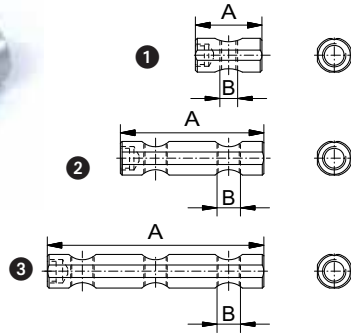
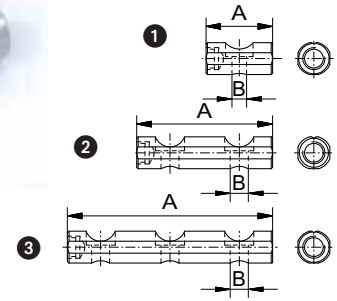
## Locating pin

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**

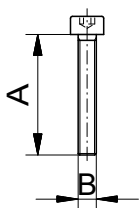
52905	1	27115	50	6,4	50	50
52906	1	26730	50	13	50	50
52907	2	28217	50	6,4	100	100
52908	2	26731	50	13	100	100
52909	3	28218	50	6,4	150	150
52076	3	26827	50	13	150	150

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



**Classic** 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

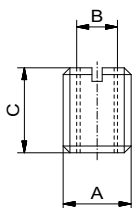




## Hex socket head screw

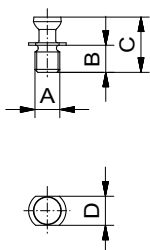
DIN 912 V2A

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

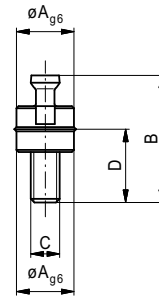
Nr.	System	A	B	C	D		
20341	AF 16	M4	4,5	8,9	SW5	1	
	21500	AF 25	M6	6,5	13,3	SW7	2
	20347	AF 40	M10	10,5	20,8	SW11	10
26855	AF 50	M12	12	25,9	SW14	16	

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



## Combi bolt

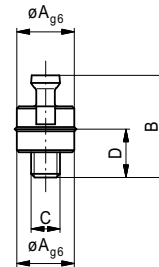
Nr.	System	A	B	C	D	
23249	AF 16	8	17,7	M4	10,2	3
23225	AF 25	12,5	28	M6	16	12
23259	AF 40	20	44	M10	25,5	64
27543	AF 50	25	55,1	M12	32	98



## Combi bolt

shortened

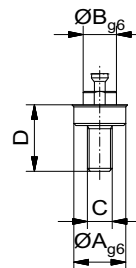
Nr.	System	A	B	C	D	
25742	AF 16	8	14,2	M4	6,7	1
25743	AF 25	12,5	22,4	M6	10,5	10
25744	AF 40	20	23,5	M10	17	61
28176	AF 50	25	44	M12	21	94



## Combi reducer bolt

for connecting different system sizes

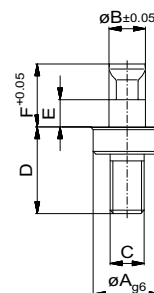
Nr.	System	A	B	C	D	
23620	AF 25/AF 16	12,5	8	M6	16	10
23621	AF 40/AF 25	20	12,5	M10	25,5	33
54400	AF 50/AF 25	25	12,5	M12	32	60
28056	AF 50/AF 40	25	20	M12	32	120

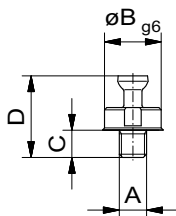


## Combi bolt

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

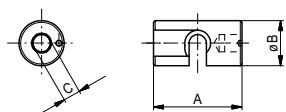




## Combi bolt

for grid plate without fitted bore and keyless chuck

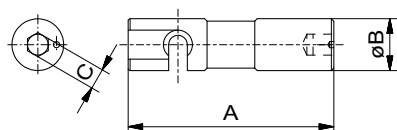
Nr.	System	A	B	C	D	g
25746	AF16	M4	8	3,5	11	2
25654	AF25	M6	12,5	6	18	10
54587	AF25	1/4"-20	12,5	12	24	10
54589	AF25	3/8"-16	12,5	12	24	12
51843	AF25	M8	12,5	6	18	12
54588	AF25	M8	12,5	12	24	15
25747	AF40	M10	20	80,8	27,3	40
27821	AF50	M12	25	11	34,1	80
34763	AF50	M12	25	20	43,1	90



## 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

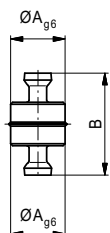
Nr.	System	A	B	C	g
23246	AF 25	50	12,5	SW3	36
20385	AF 40	80	20	SW5	130
26801	AF 50	100	25	SW10	300
27930	AF 50	150	25	SW10	489



## 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!

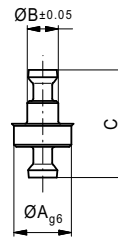




## Twin bolt

for bar 1D and base plate 2

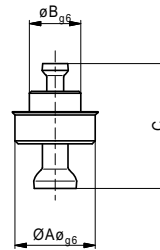
Nr.	System	A	B	C	g
23248	AF 16	8	4	15	2
23228	AF 25	12,5	6,7	24	8
23258	AF 40	20	10,7	37	34
28208	AF 50	25	13,7	47	70



## Reducer bolt

for quick connection

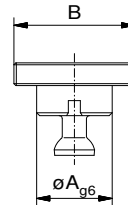
Nr.	System	A	B	C	g
20328	AF 25/AF 16	12,5	8	19,5	8
23452	AF 40/AF 25	20	12,5	30,5	30
28209	AF 50/AF 40	25	20	41,6	38
30580	AF 50/AF 25	25	12,5	35	33



## Bolt disk with stud

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

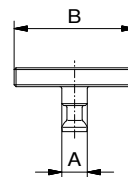
Nr.	System	A	B	g
23646	AF 16	8	M12x0,5	5
23252	AF 16	8	M24x1	16
120027	AF 25	12,5	M12x0,5	AF
23239	AF 25	12,5	M24x1	22
23238	AF 25	12,5	M32x1	39
23262	AF 40	20	M24x1	38
23264	AF 40	20	M32x1	58
26926	AF 50	25	M32x1	60

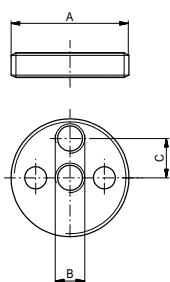


## Bolt disk 1D/2D

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

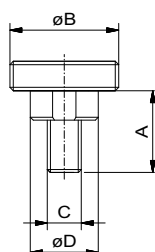




## Disk

for set up independent of grid

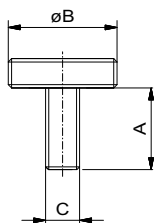
Nr.	A	B	C	
21679	M24x1	M6	7	5
21711	M32x1	M6	9	11



## 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

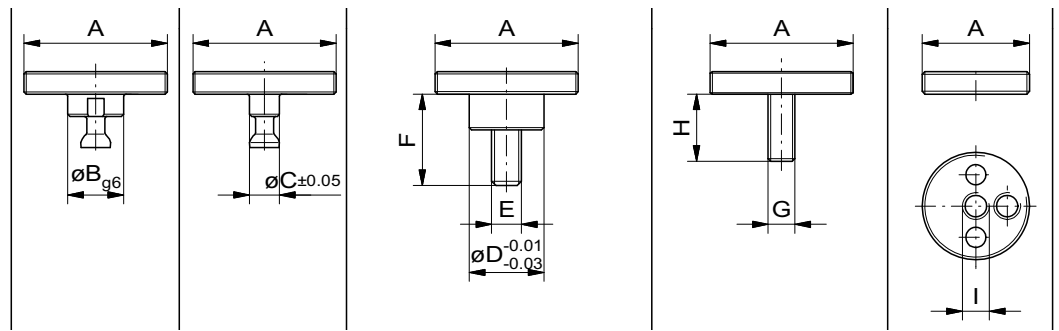
Nr.	System	A	B	C	
81589	AF 16	7,3	M12x0,5	M4	5
81489	AF 16	10,2	M24x1	M4	10
80597	AF 25	15,3	M24x1	M6	8
95905	AF 25	7,7	M24x1	1/4"-20	10
95906	AF 25	15	M24x1	M8	12
95907	AF 25	7,7	M24x1	3/8"-16	11
80598	AF 25	19,6	M32x1	M6	15
82770	AF 40	26,2	M24x1	M10	10
82771	AF 40	25,7	M32x1	M10	20
82772	AF 50	30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

$\sigma$	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:

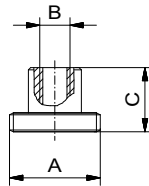
Fixing disk #25342

Reducer bush #21865

Nut M6

Nut M8

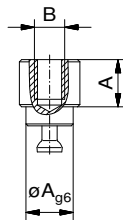
Bolt #25343



### Fixing disk

for swivel arm

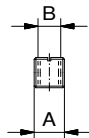
Nr.	A	B	C	
25342	M24 x 1	M8	17	10



### Bolt

for swivel arm

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



### Reducer bush

for swivel arm

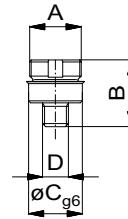
Nr.	A	B	
21865	M8	M6	1

## Connection elements for keyless chucks and rotary plates

### Fixing disk

for keyless chuck / screw-jack

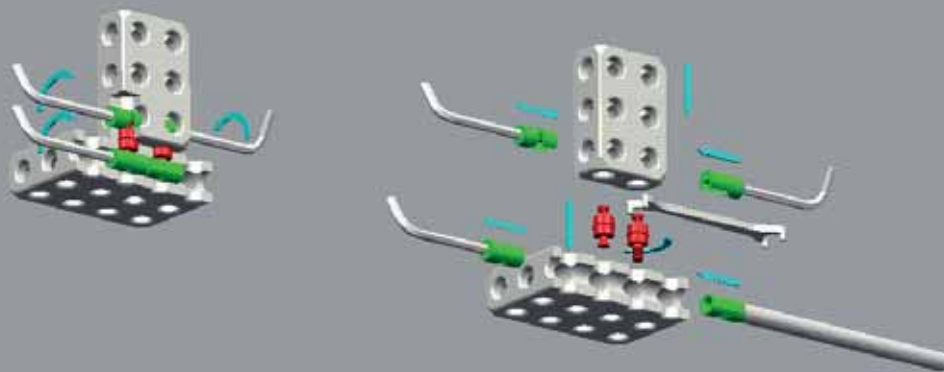
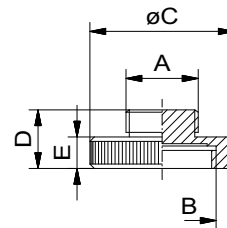
Nr.	A	B	C	D	
56118	M12x0,5	15,5	12,5	M6	19
56163	M16x1	15,5	12,5	M6	30

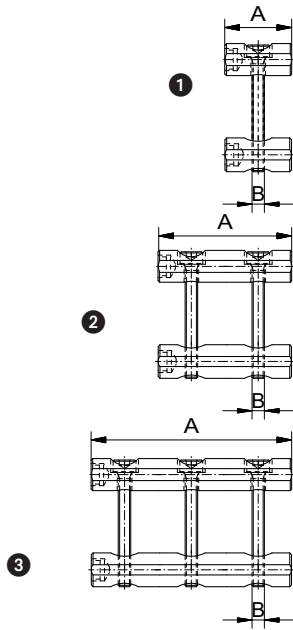


### Fixing disk

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

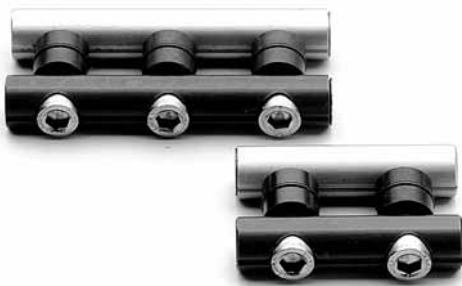




## Connecting set

for screw connection

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

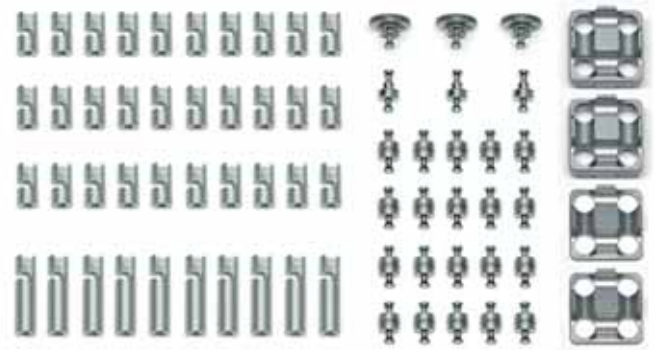
# 82673, (36-pcs.), 1000g  
comprising of:

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.

Tools also available separately

# ALUFIX CLASSIC

## Starter Kits

Fast clamping with ALUFIX

STARTER KIT

A



#83131

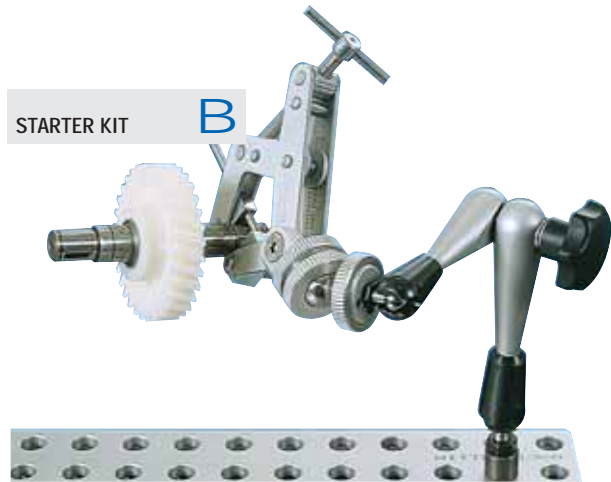
### Screw clamp

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

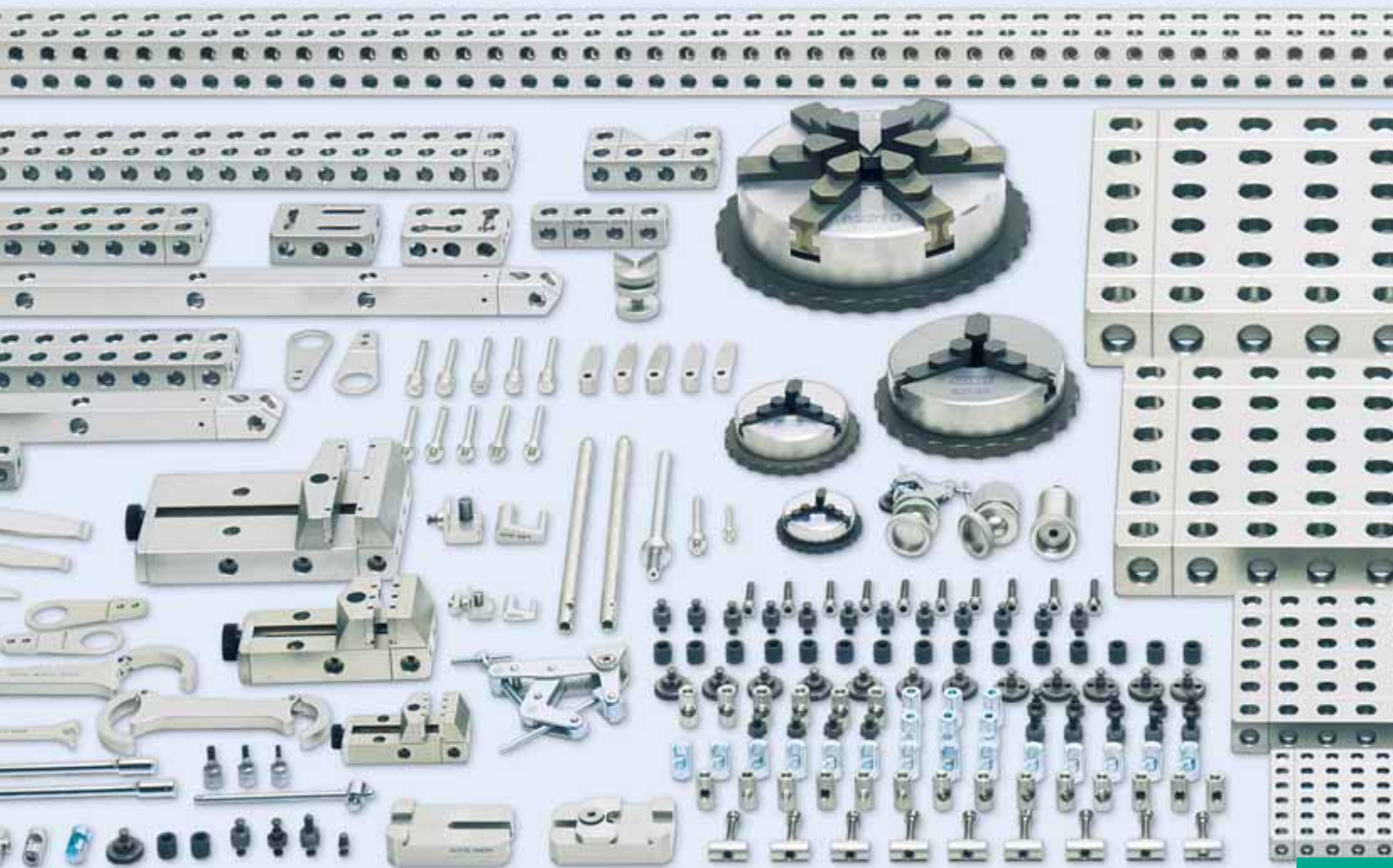
Comprising:

- 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

G



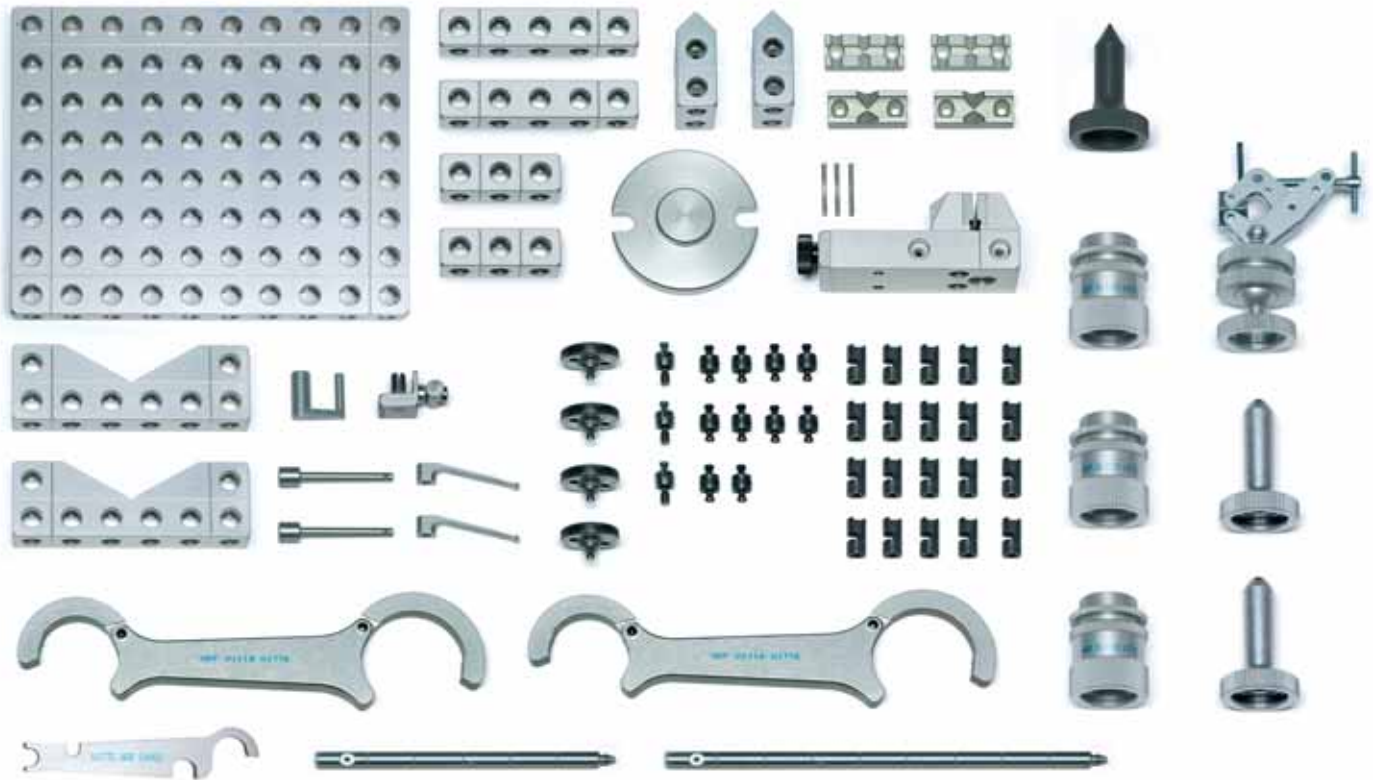
## #96092 Basic Set

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)



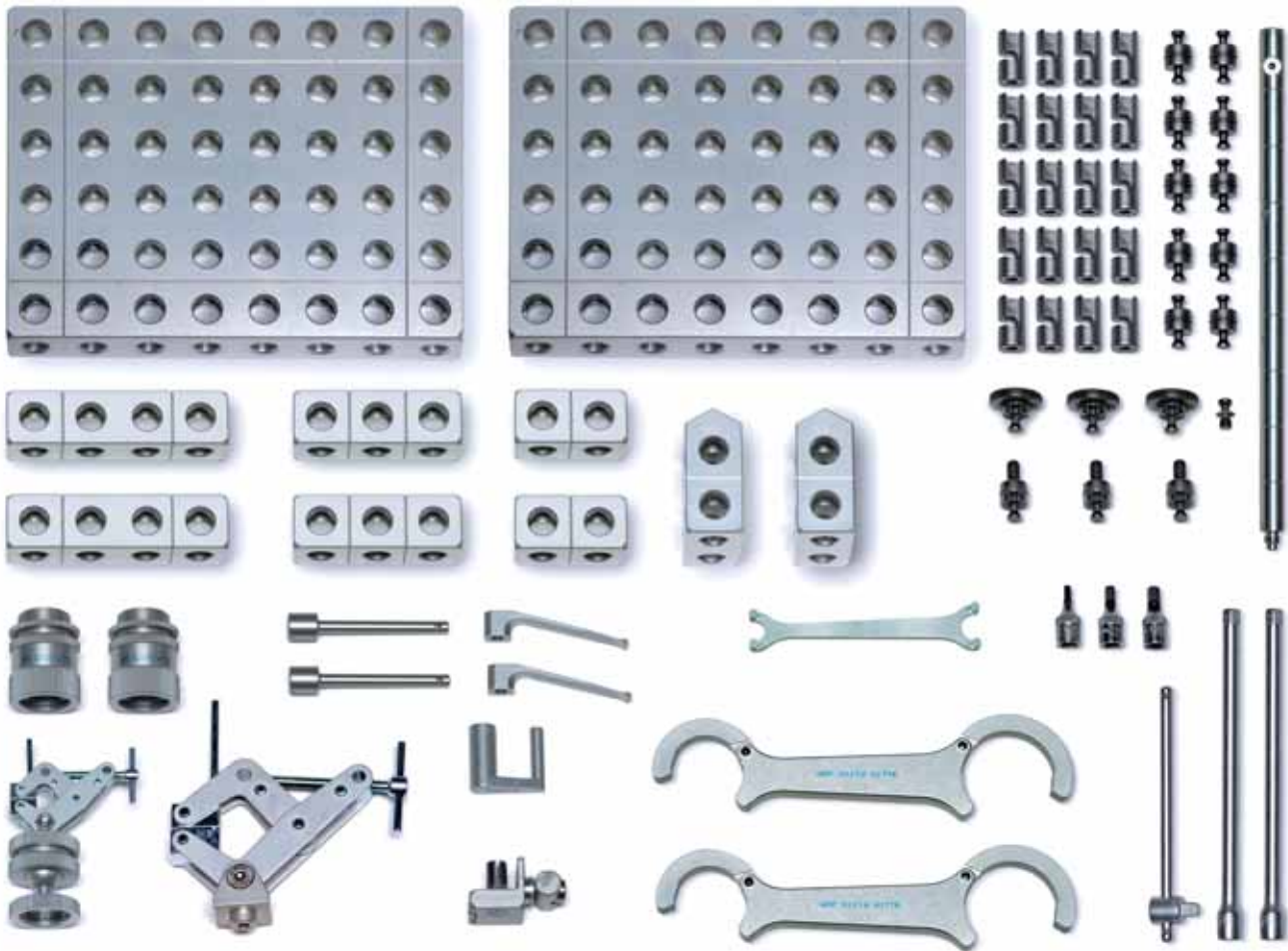
**ALUFIX CLASSIC** elements can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request.



## 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.



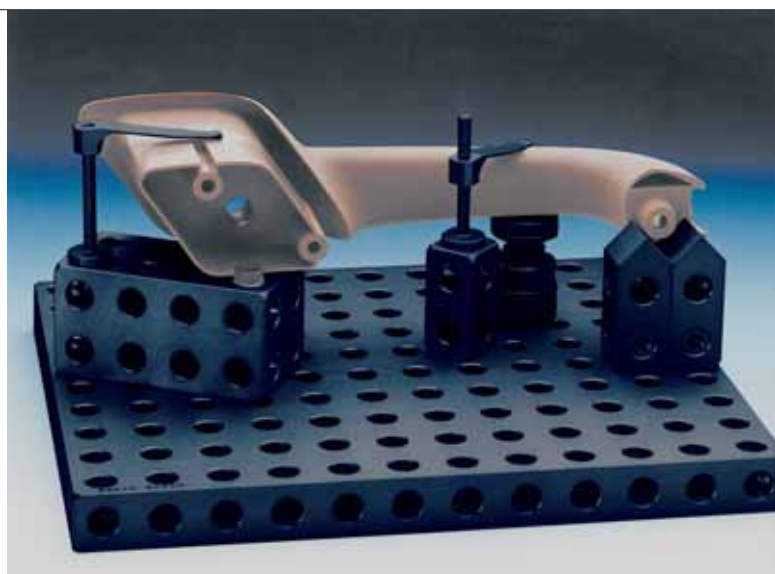
## #90275 Basic Set 2

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

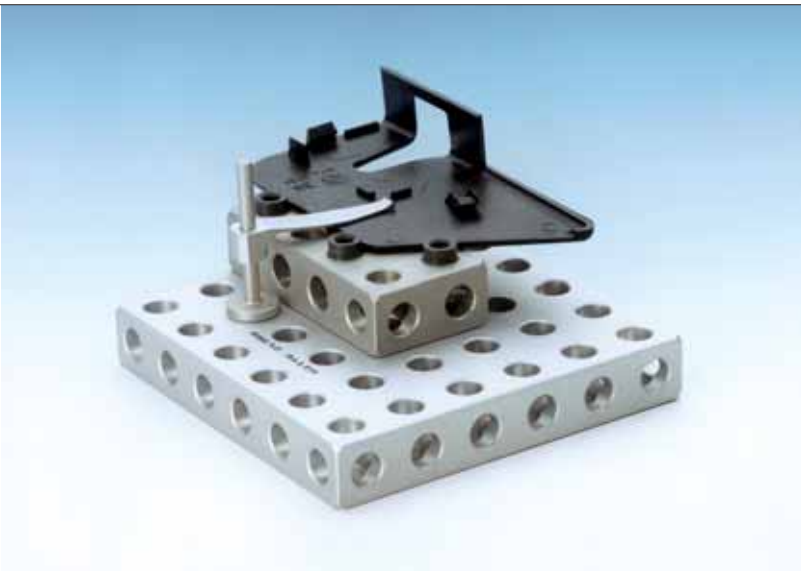
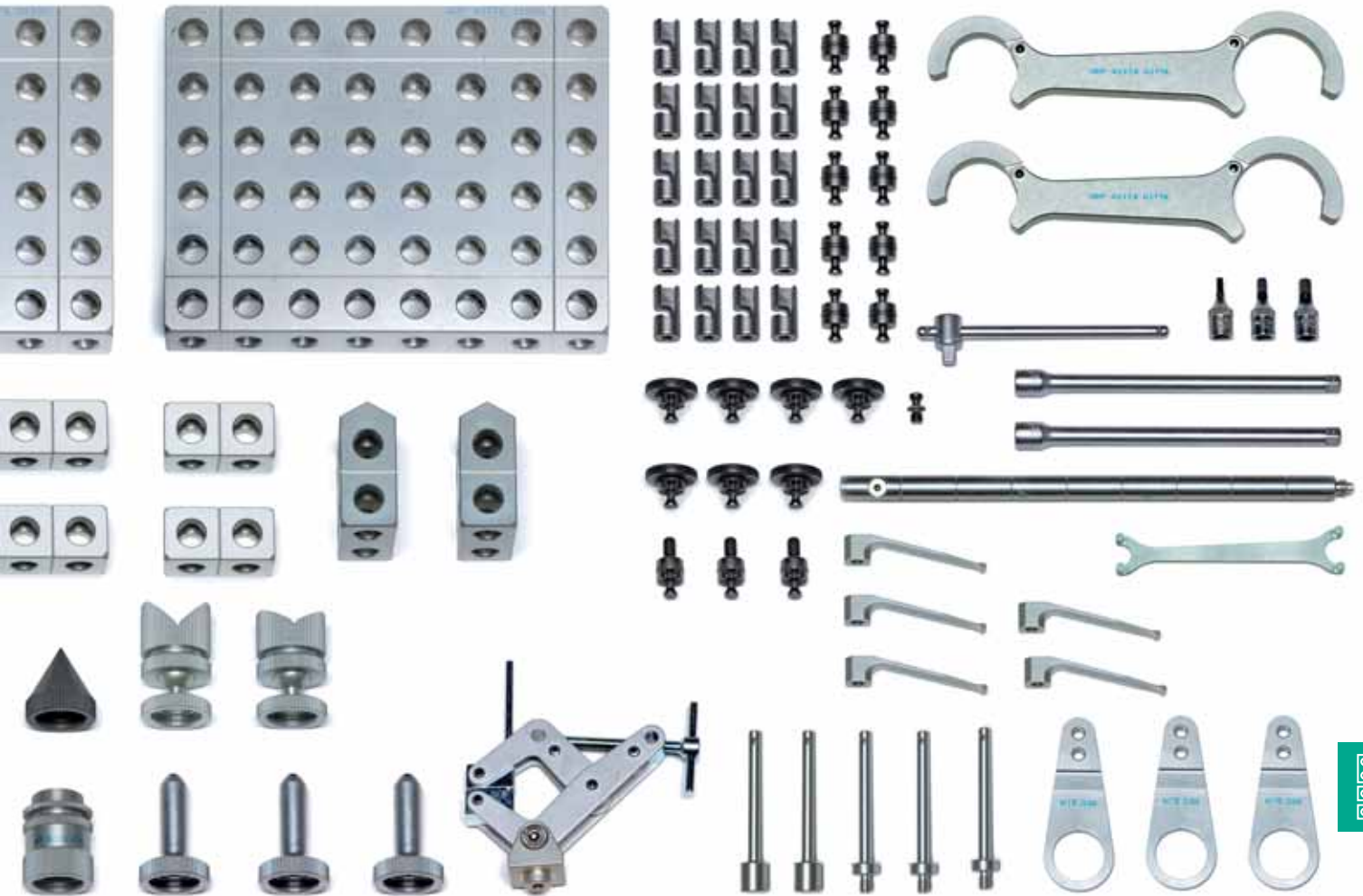
Nr.	Qty.	Name
21352	2	Base plate 25x150x200
21373	2	Bar 25x25x50
21374	2	Bar 25x25x75
21375	2	Bar 25x25x100
21376	2	Bar 25x25x125
22256	2	Delta block 120° Form 3
82673	1	Quick connector set (36 pcs)
21500	1	Bolt, shortened for thread
81493	1	Tools (10 pcs)
82139	4	Screw-jack h38-50
23239	4	Bolt disk 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

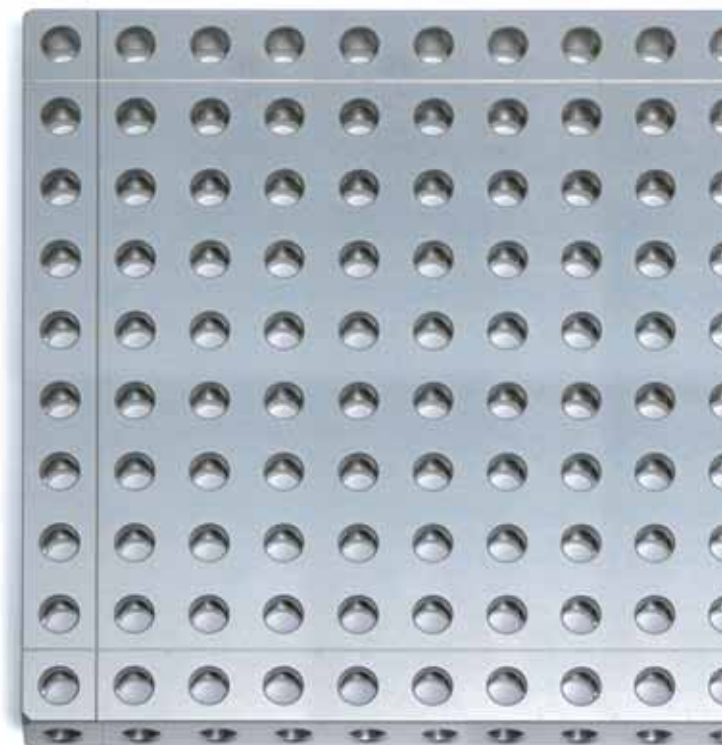


**ALUFIX CLASSIC** elements can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request.

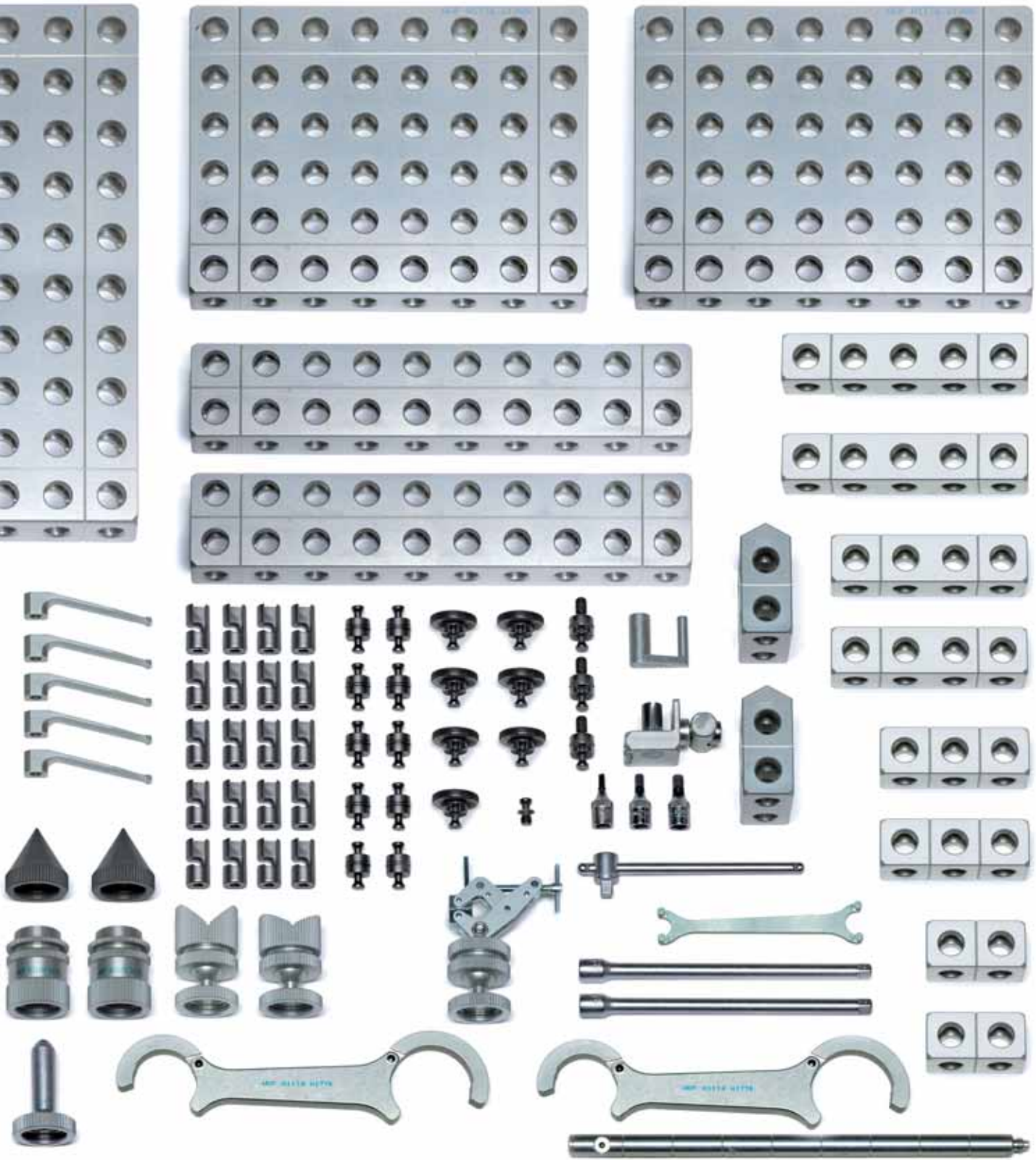
## #90276 Basic Set 3


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

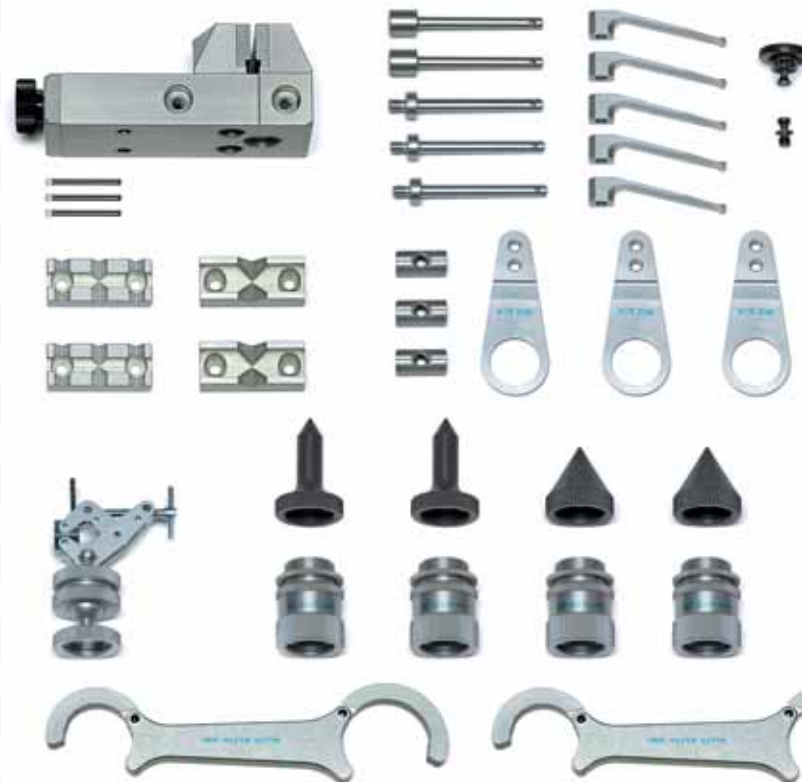
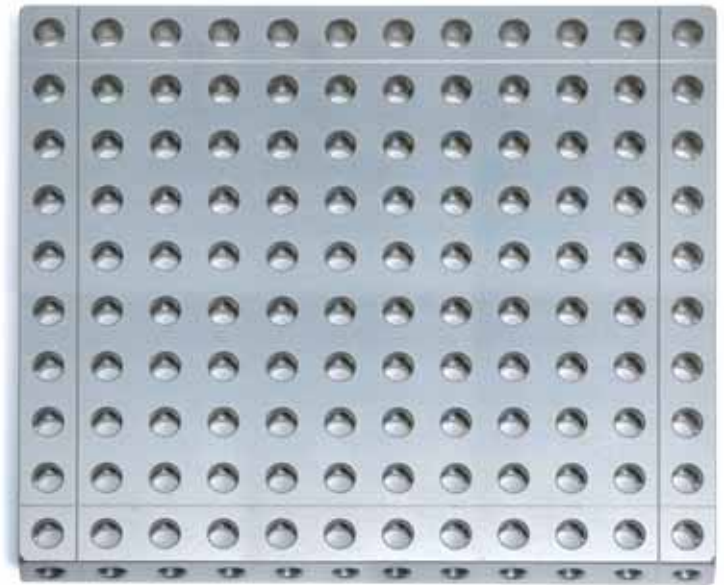


 **ALUFIX CLASSIC** elements can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request.

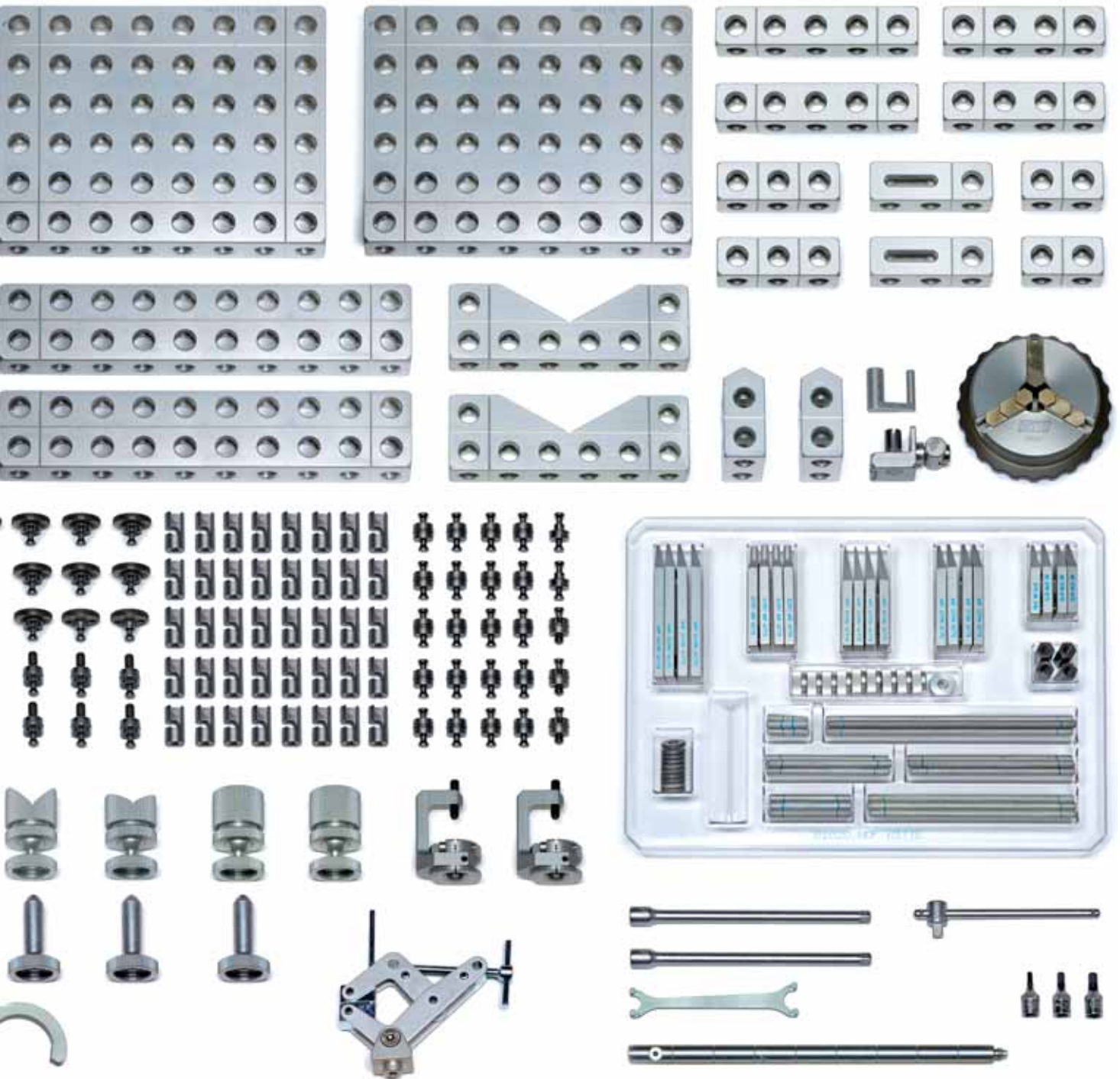
## #90277 Basic Set 4

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

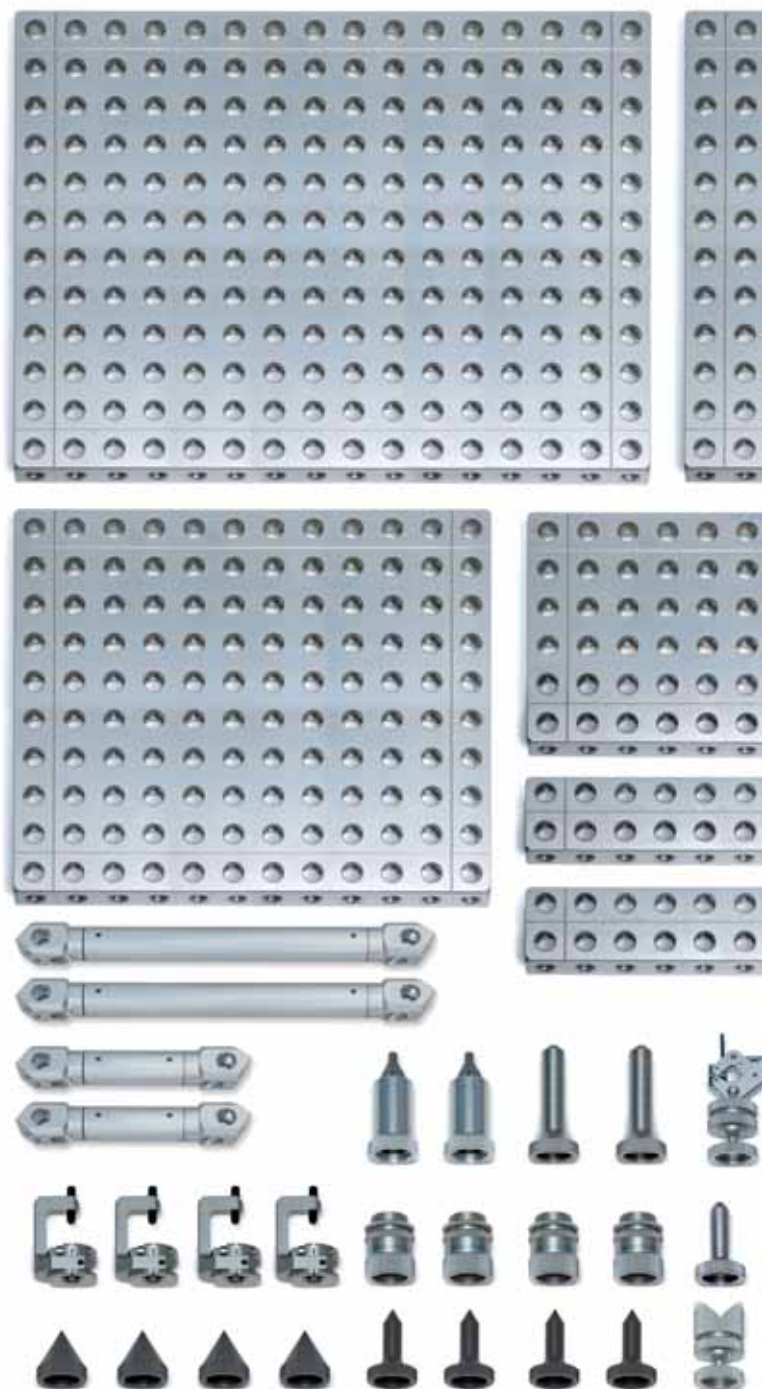


**i** ALUFIX CLASSIC elements can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request.

## #90278 Basic Set 5

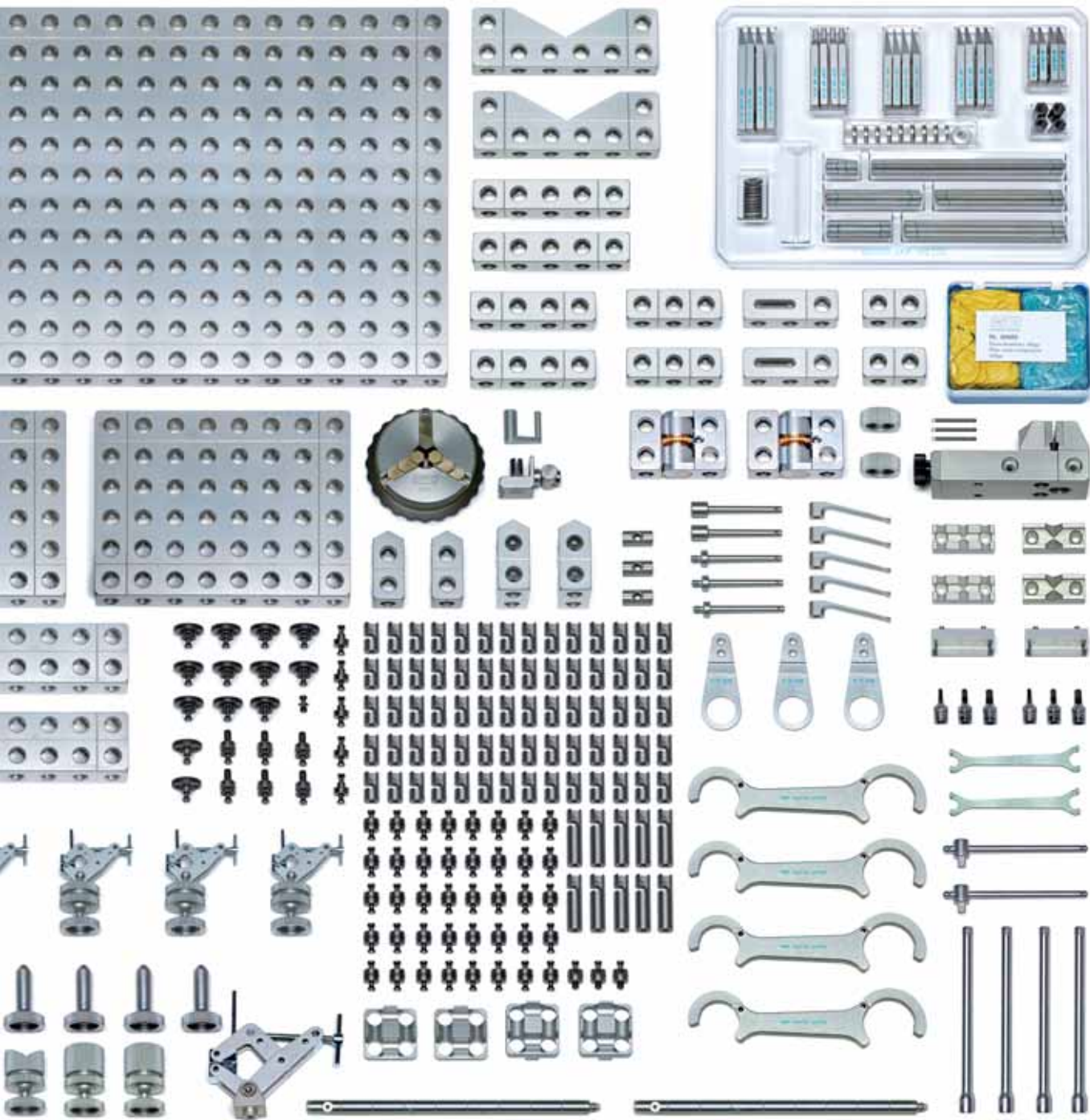
Alufix 25 (345-pcs), 49,8 kg

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



**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.



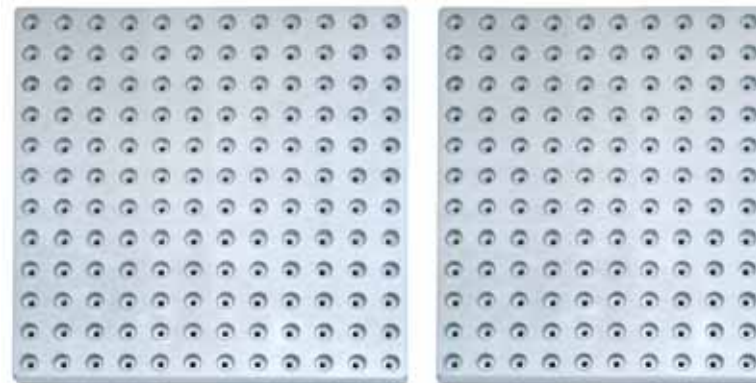
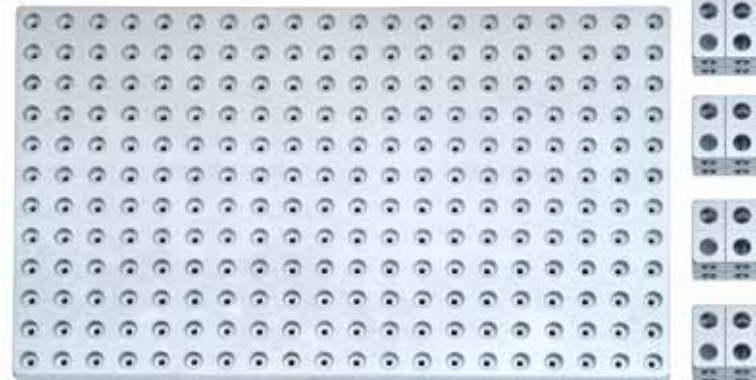
**i** Aluminium case #12584, without inlays, version may be different to case shown, included in supply free of charge



## #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

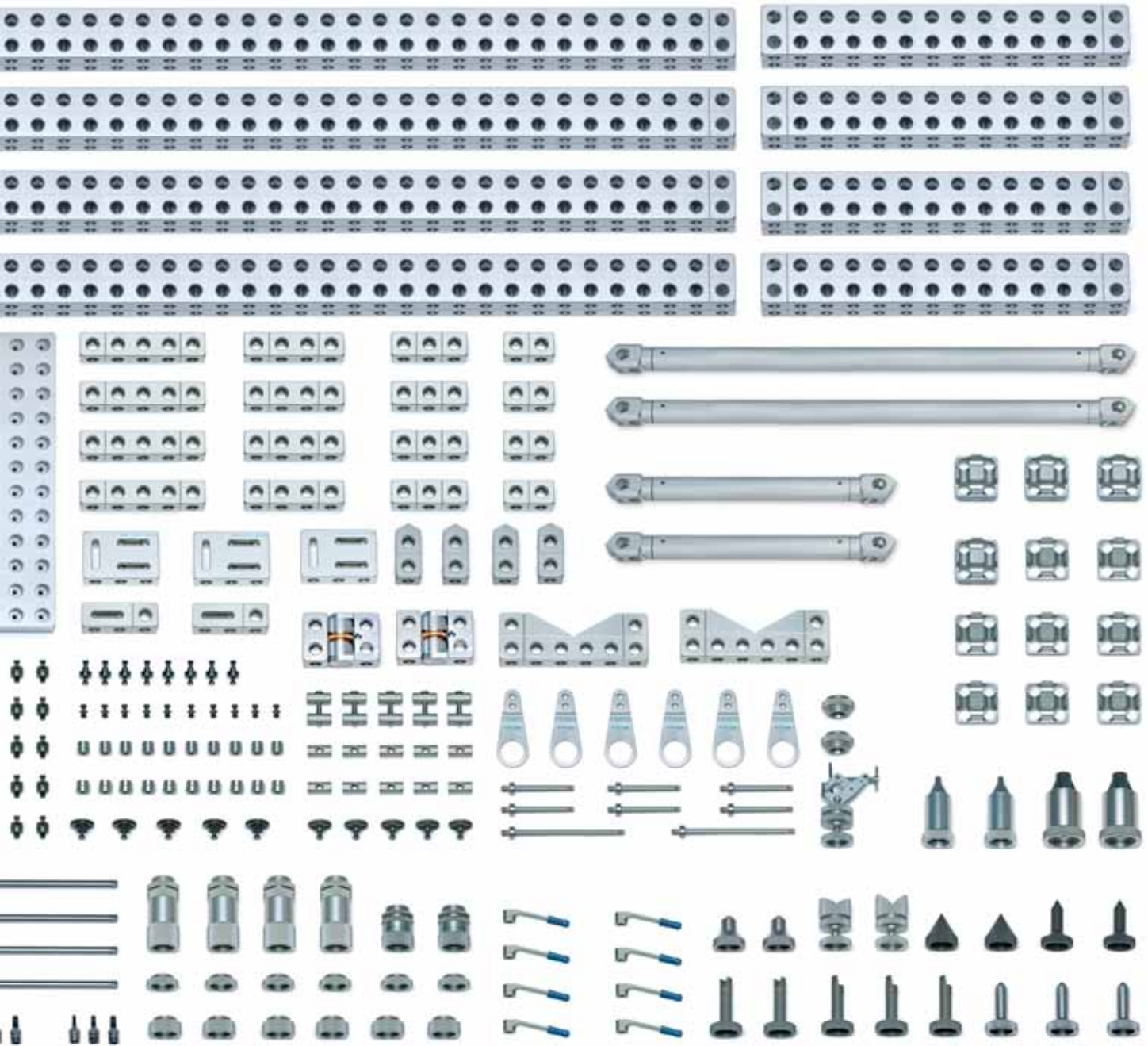


Nr.	Qty.	Name
80733	2	V Block 120° with ball joint
80590	2	True line stud ø15/M24/32,6
22647	2	Crossover male/male M24x1
93443	8	Hold down spring f.sens. surfaces
22263	6	Hold down stud M6 AF25



**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

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



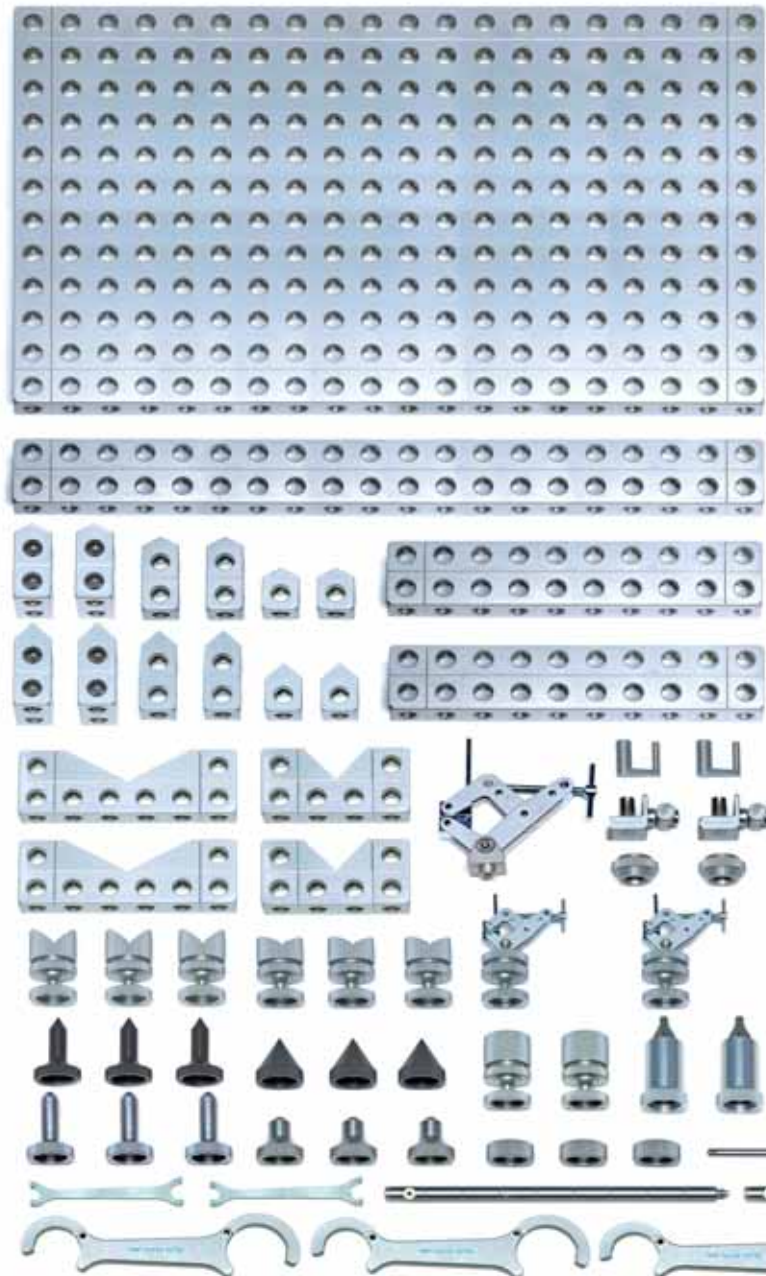
**i** Recommendation:  
For storage of elements workstation #282562 is available, page 151



## #82689 Basic Set 7

Alufix 25 (419-pcs), 54 kg

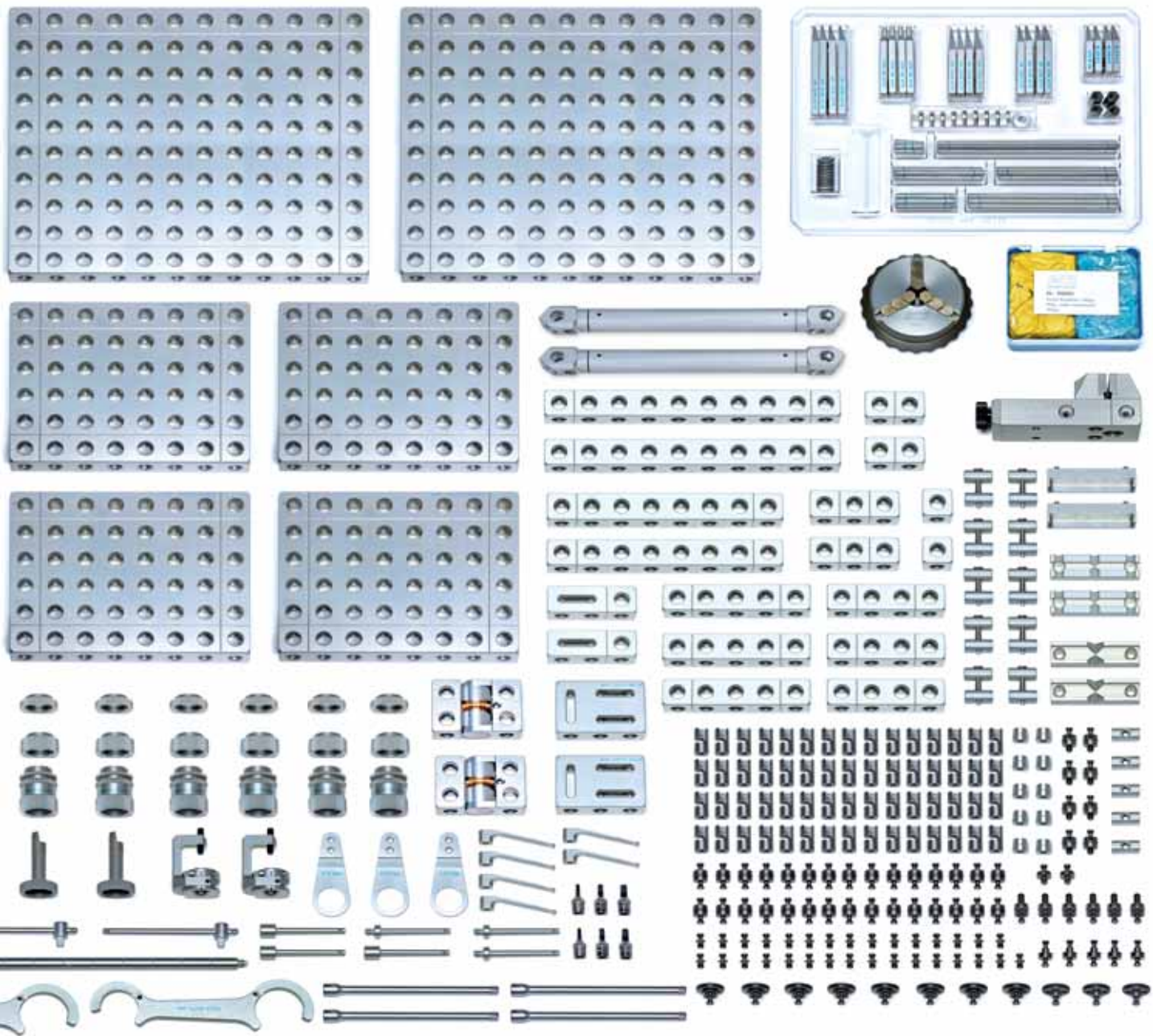
Nr.	Qty.	Name
22885	2	Base plate 25x50x250
21707	1	Base plate 25x50x500
21360	2	Base plate 25x250x300
21352	4	Base plate 25x150x200
21362	1	Base plate 25x300x500
21372	2	Bar 25x25x25
21373	2	Bar 25x25x50
21374	2	Bar 25x25x75
21375	3	Bar 25x25x100
21376	3	Bar 25x25x125
22963	2	Bar 25x25x200
22882	2	Bar 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)



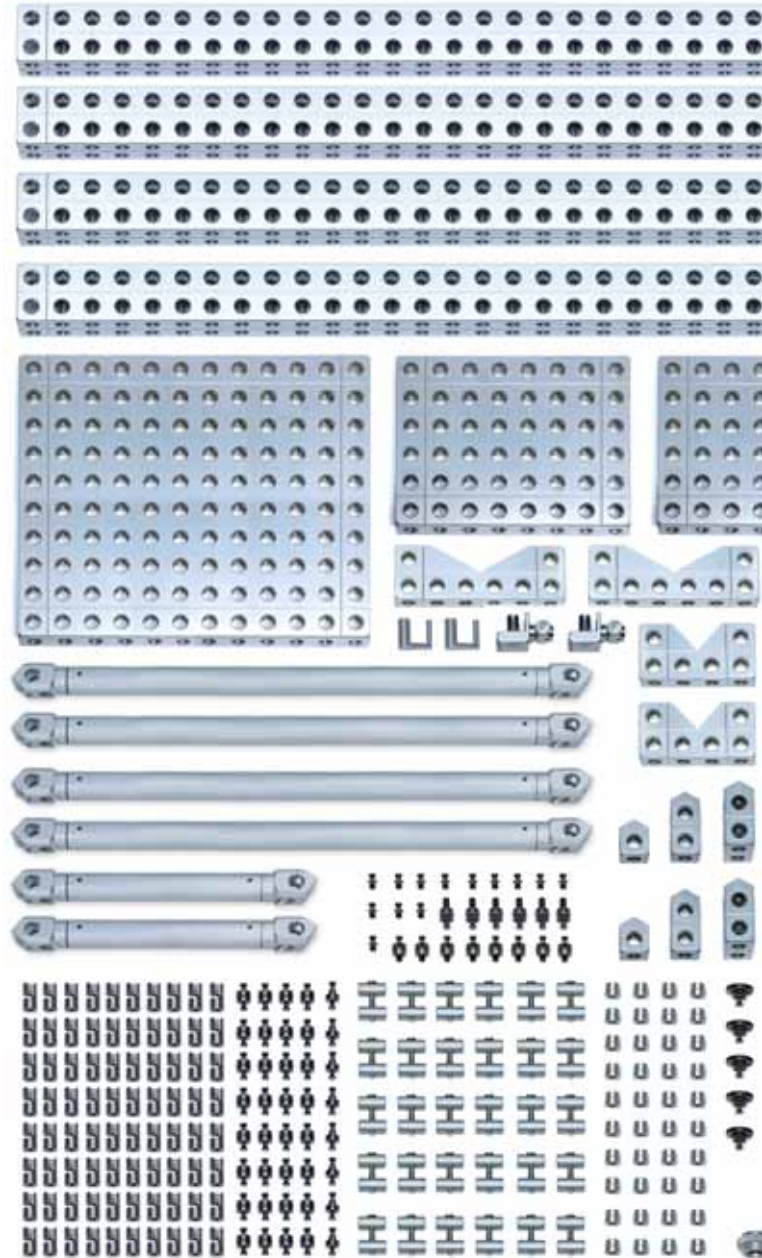
**Recommendation:**  
 For storage of elements workstation  
 #282562 is available, page 151



## #90281 Basic Set 9

Alufix 25 (434-pcs), 51kg

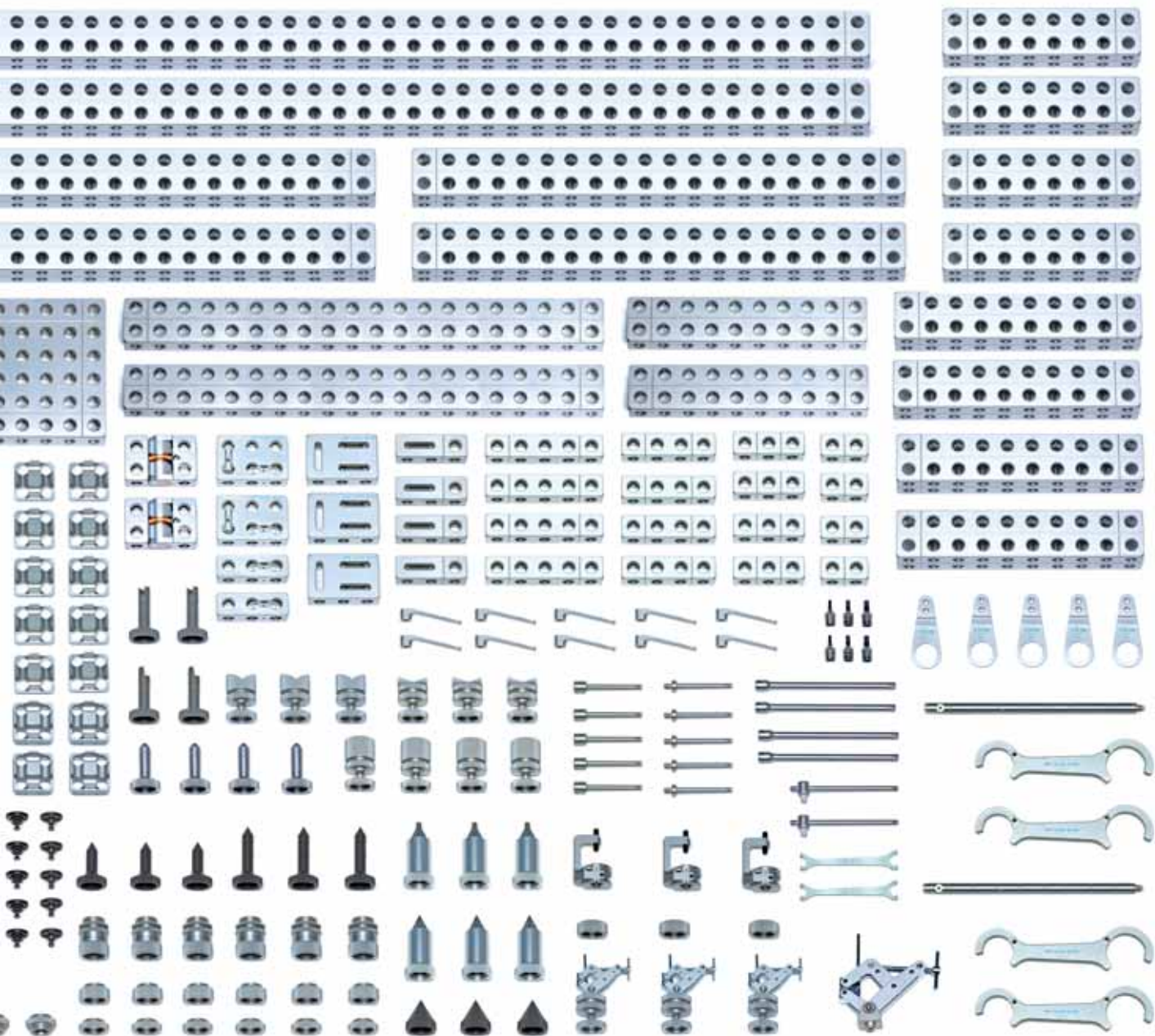
Nr.	Qty.	Name
21360	1	Base plate 25x250x300
21352	2	Base plate 25x150x200
22885	2	Base plate 25x50x250
21707	2	Base plate 25x50x500
21373	4	Bar 25x25x50
21374	4	Bar 25x25x75
21375	4	Bar 25x25x100
21376	4	Bar 25x25x125
22949	4	Bar Light 50x50x250
22950	4	Bar Light 50x50x500
22951	2	Bar Light 50x50x1000
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

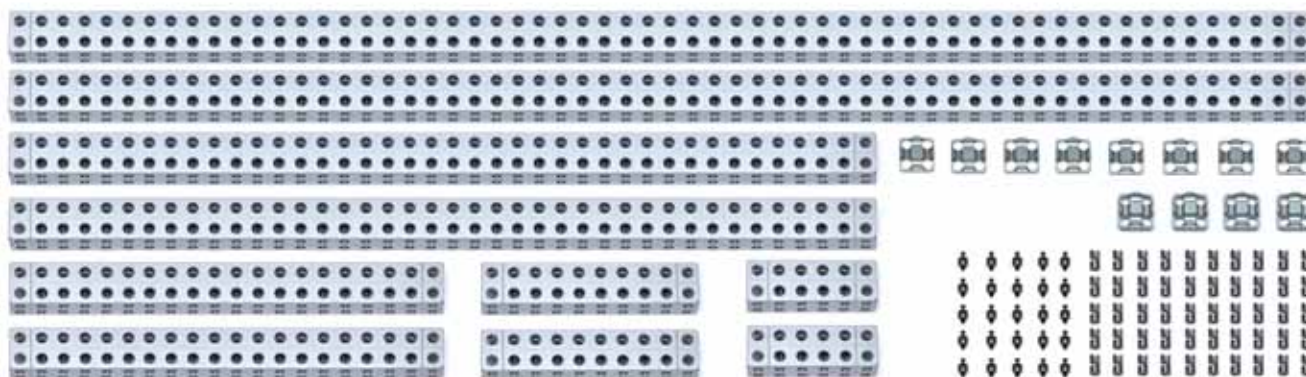
Nr.	Qty.	Name
22275	2	Deflector
80924	1	Screw clamp with joint
80604	2	Base for toggle clamp

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



**i** Recommendation:  
 For storage of elements worksta-  
 tion #282727 is available, page  
 151

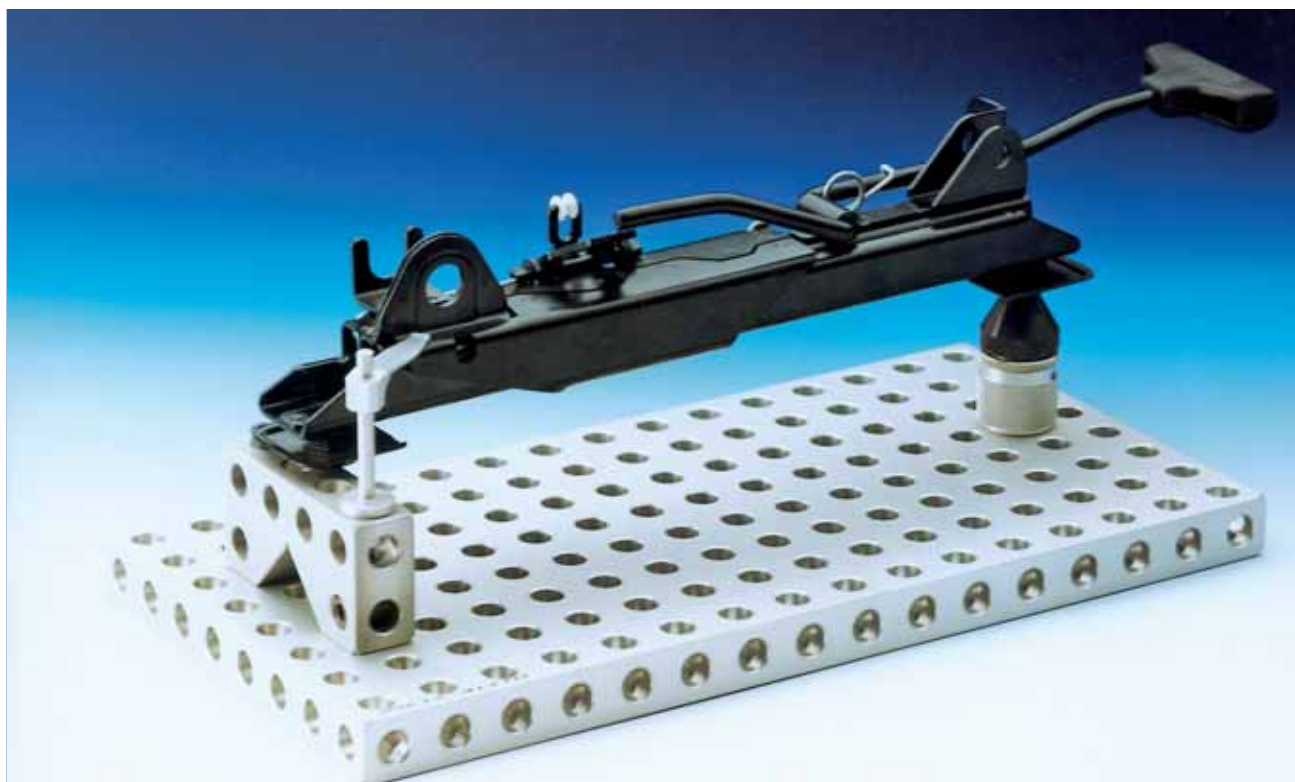


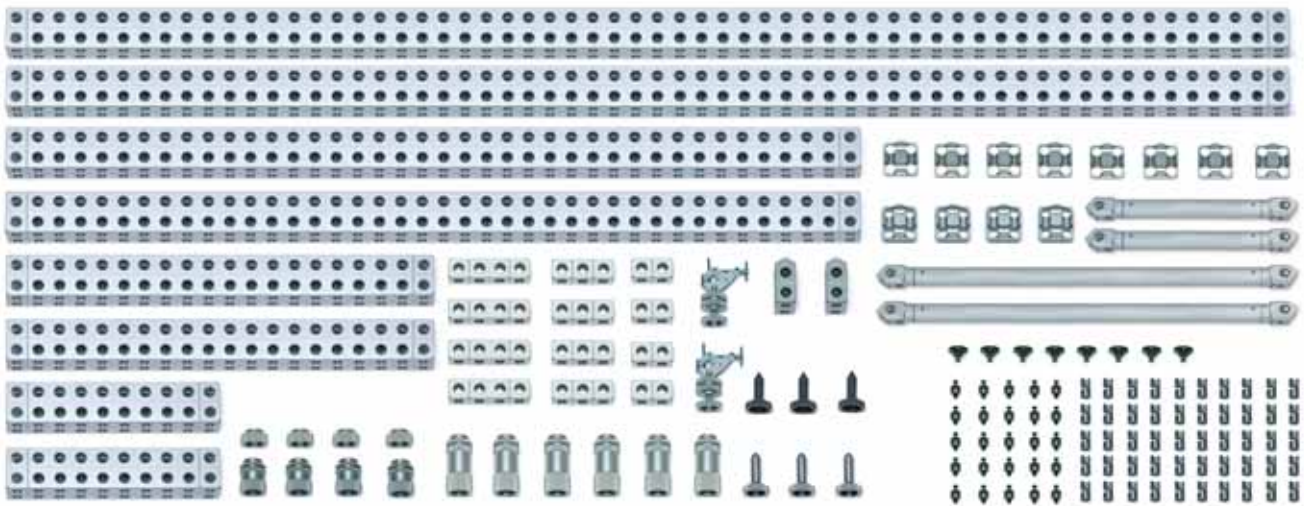


## #90283 Extension Set 1

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

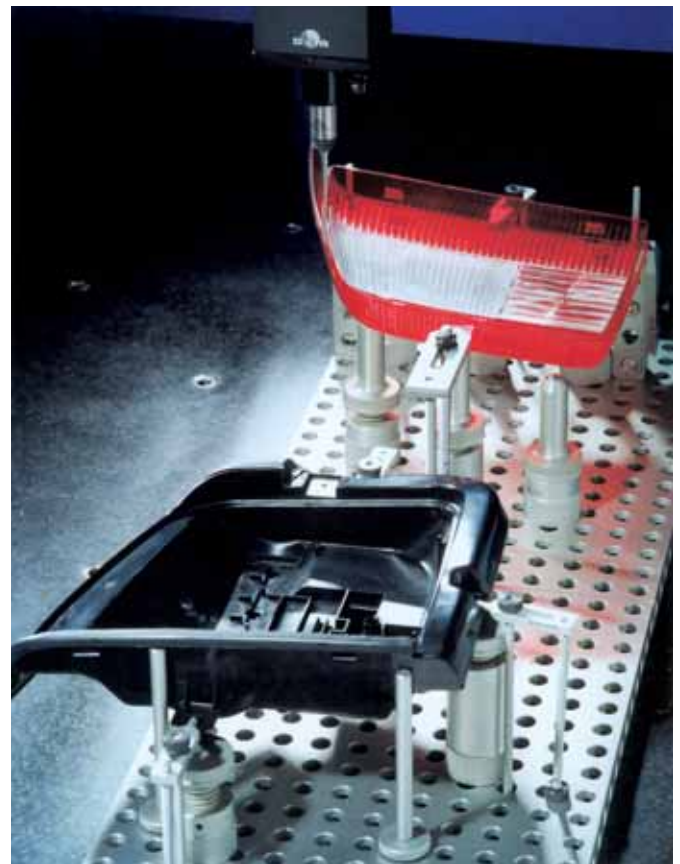




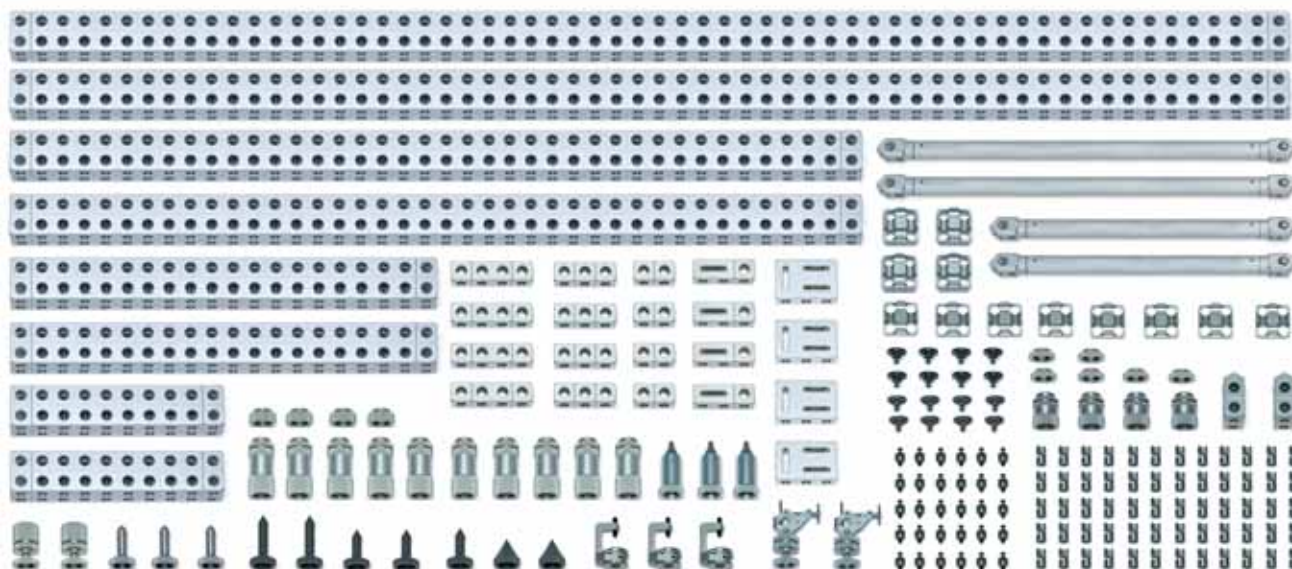
## #90284 Extension Set 2

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.

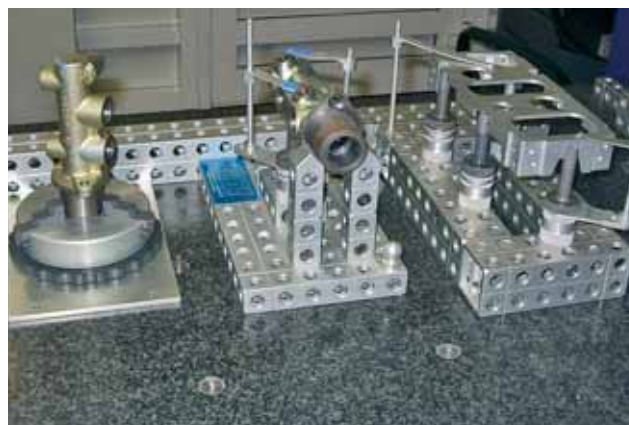


### #90285 Extension Set 3

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

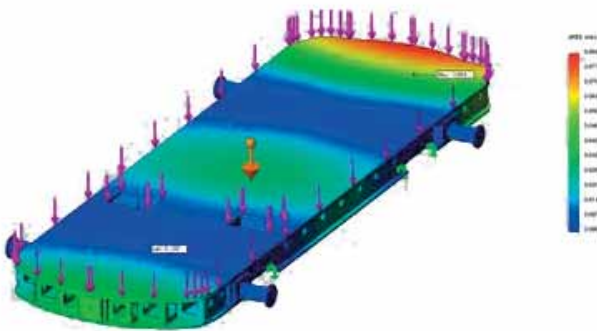
#51753 for storage of long bars 50x50

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

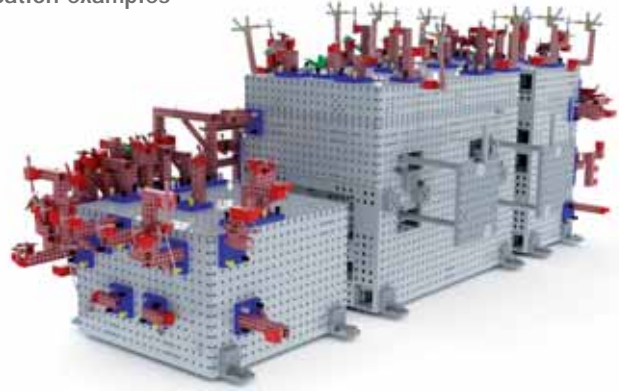
As well as special versions such as

- 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

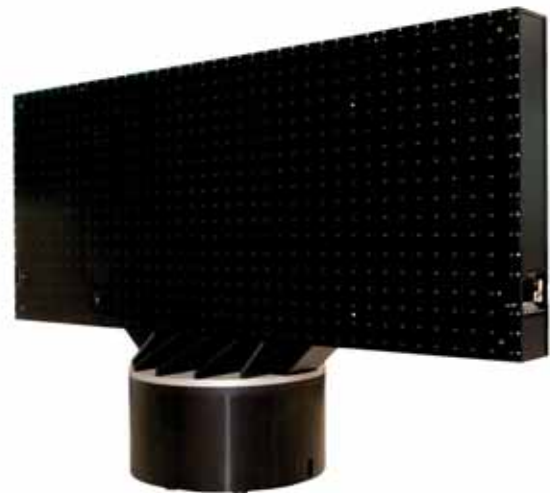
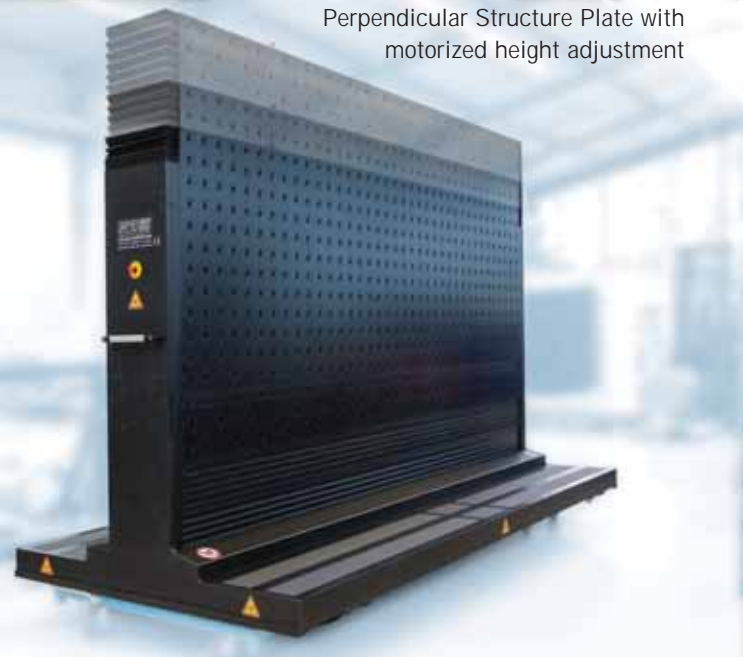


Fixbase Cube for mounting single parts of vehicle front



Horizontal Structure Plate with integrated motor driven jack system

Perpendicular Structure Plate with motorized height adjustment



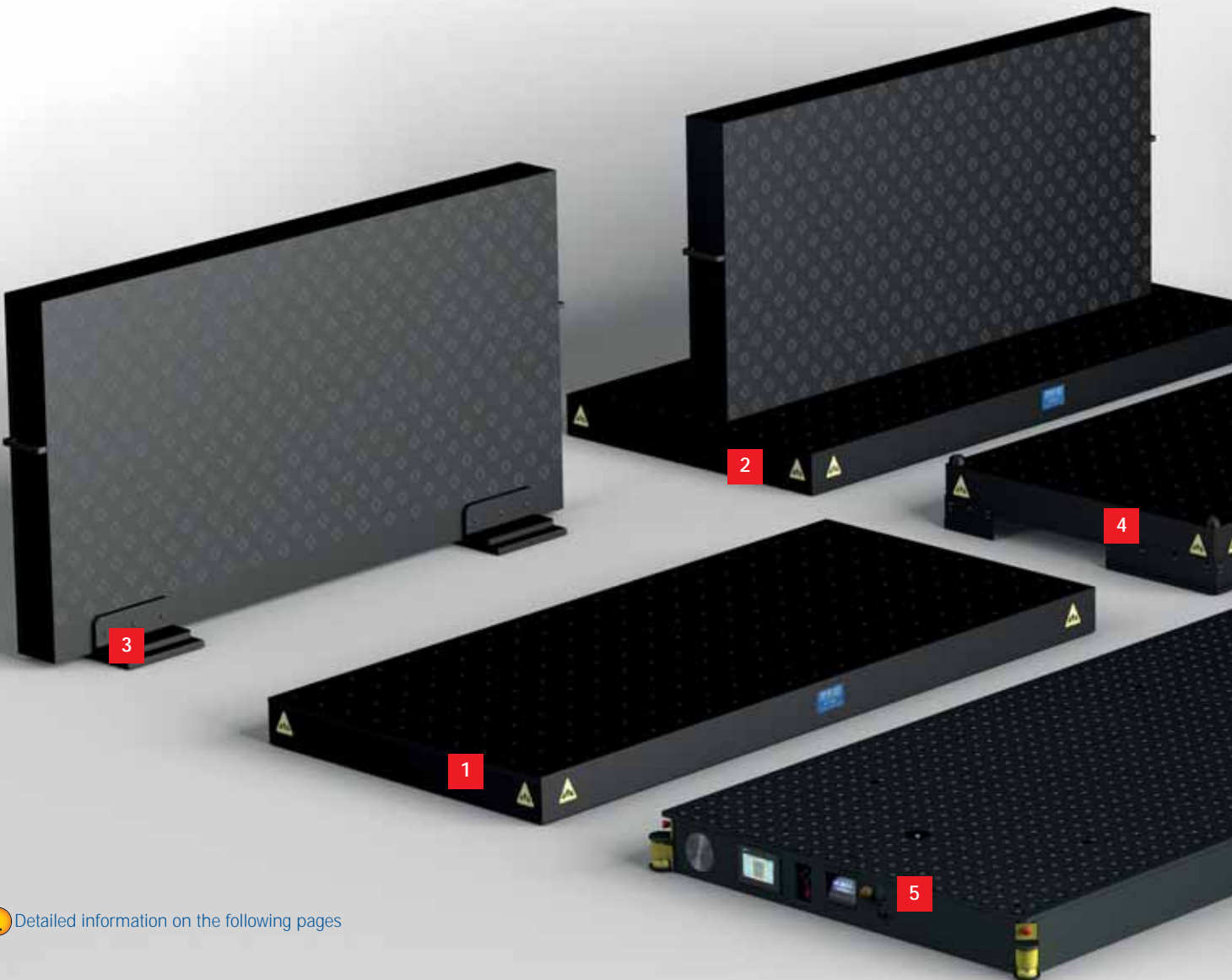
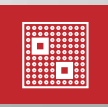
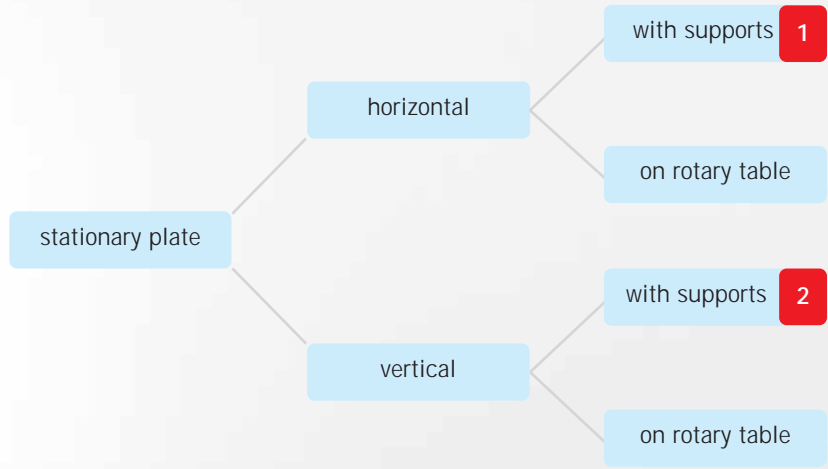
Horizontal Structure Plate with integrated motor driven jack system



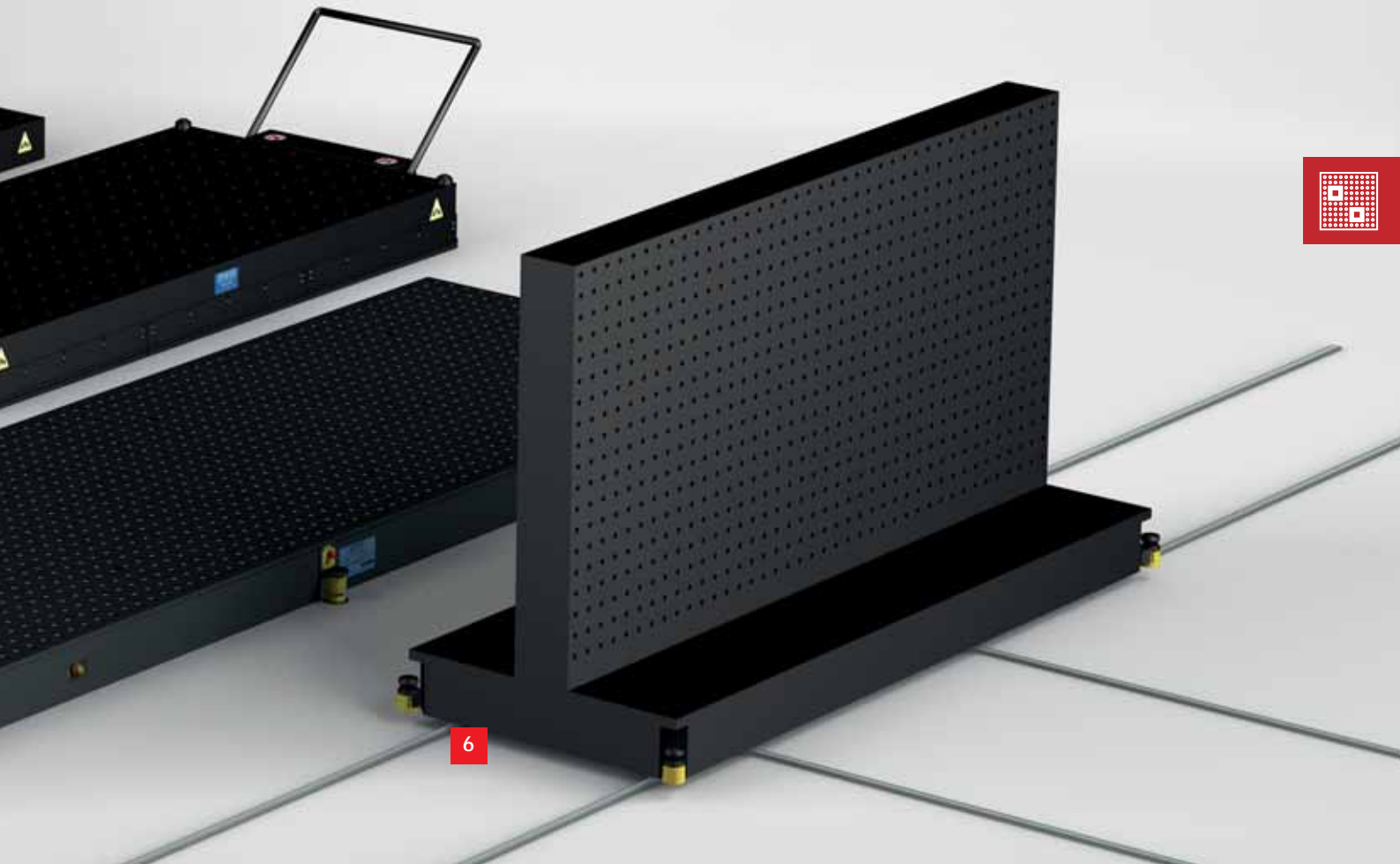
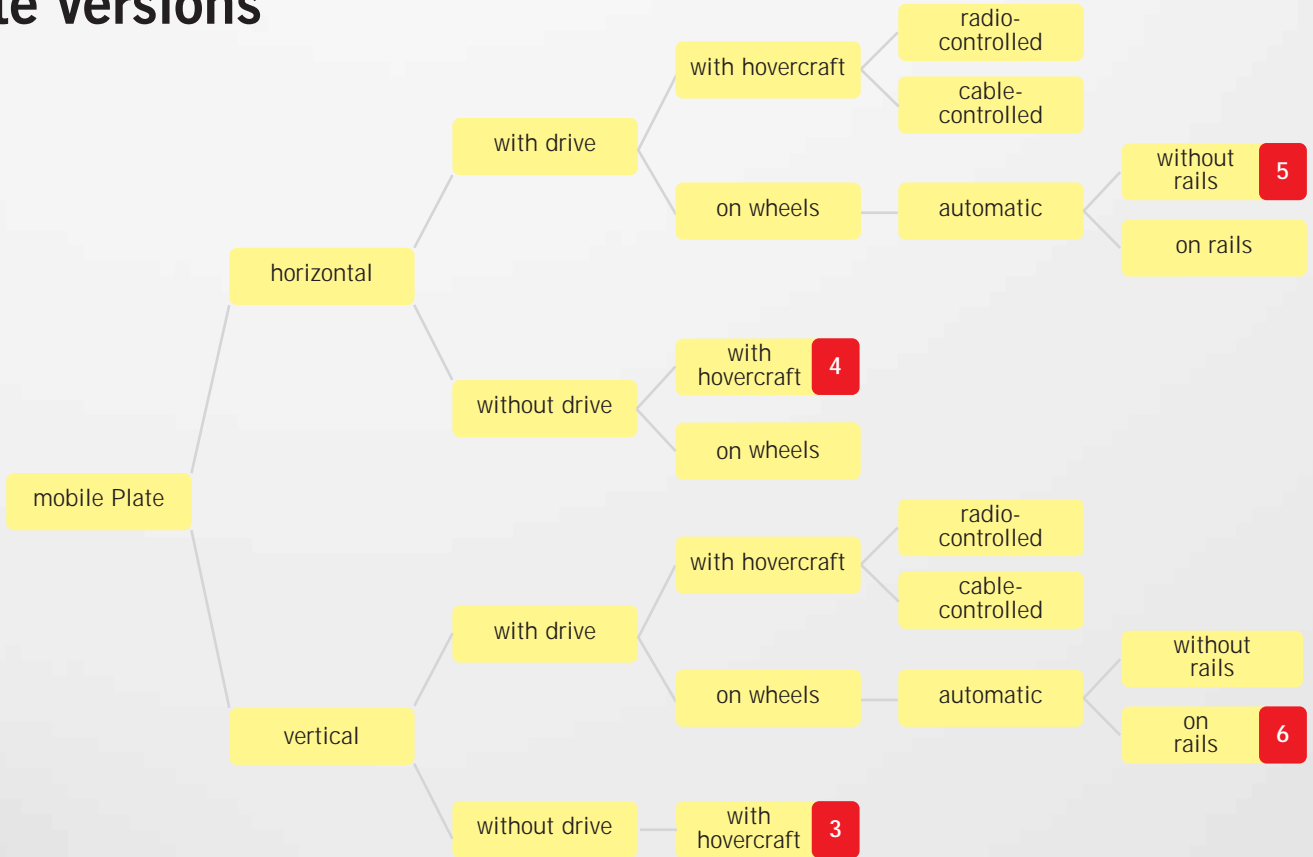
**Witte FixBase®** elements can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request.



# Witte FixBase®



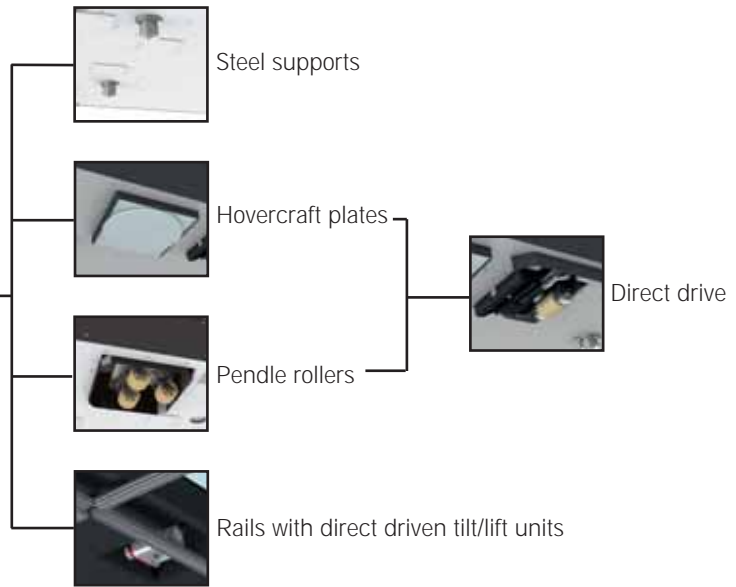
# Plate versions



# Witte FixBase® Equipment

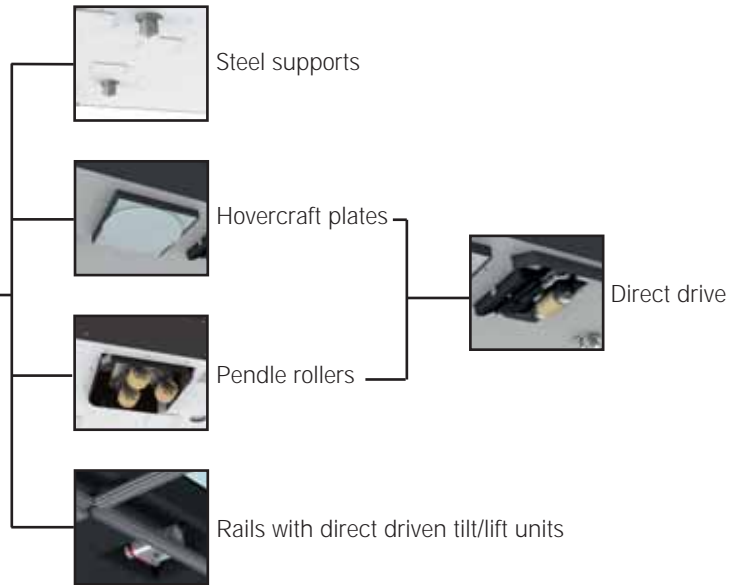
According to design

## Horizontal Structure Plate:

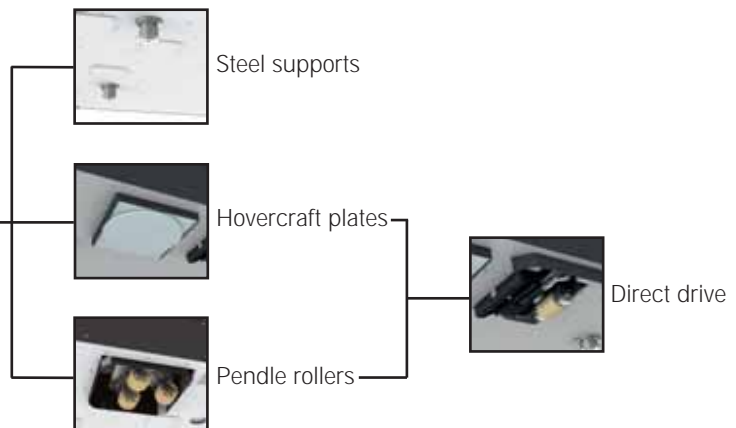


## Vertical Structure Plate:

with horizontal substructure



## Vertical Structure Plate:



## Witte FixBase® Special versions

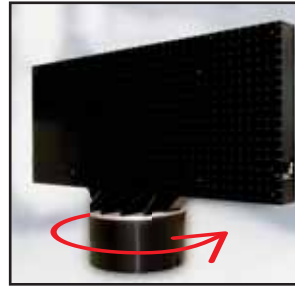
- Examples



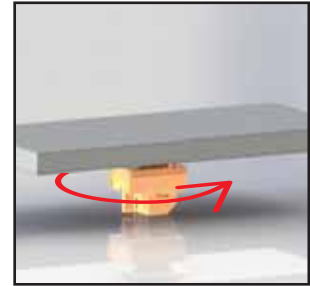
With integrated jack lift and air-cushioned and floating support plate



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



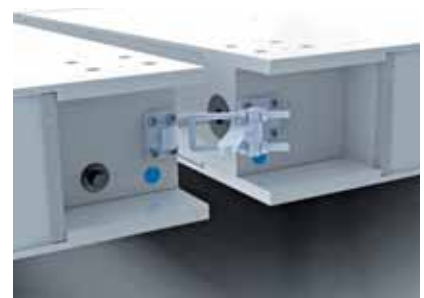
Control unit with path monitor



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:

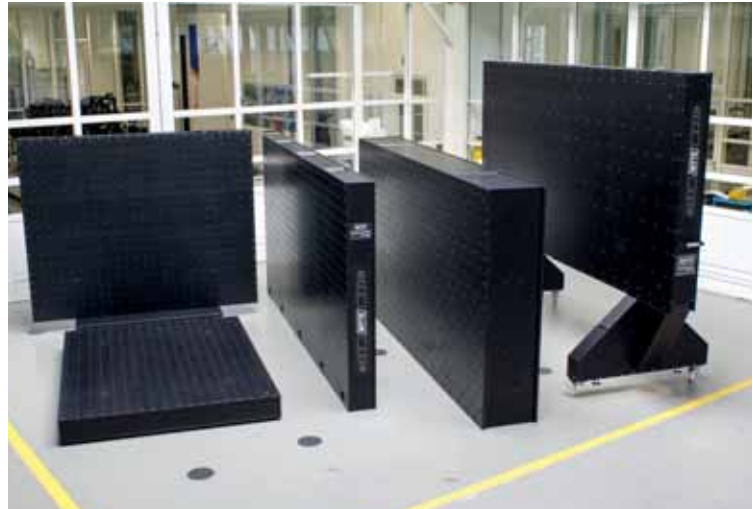
Acc. to DIN 876 II Gen. 3  
(up to 5m x 2m)  
Higher accuracy available on request

Hole grid

Tolerance for grid JS7  
Total toleranz JS8  
Higher accuracy available on request

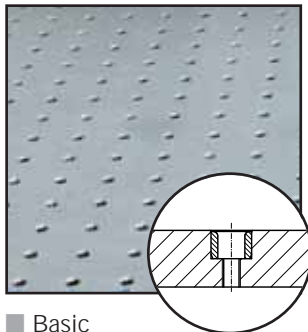
Load capacity for horizontal plates

500kg/m<sup>2</sup> up to 2000kg/m<sup>2</sup> standard  
Higher load capacity available on request

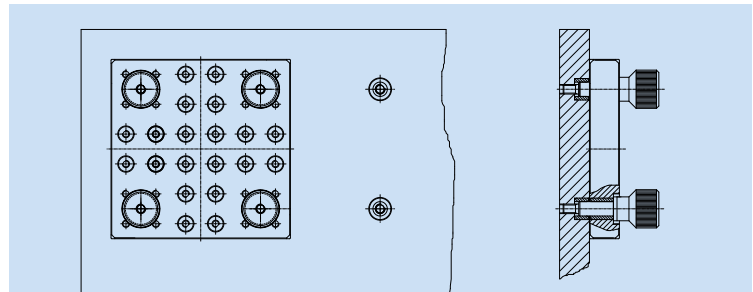


## Set up surface

### Classic



■ Basic  
thread with fitted sleeve



### Column connection classic – with fitted screw

Simple and proven version.

Two types of locators are available:

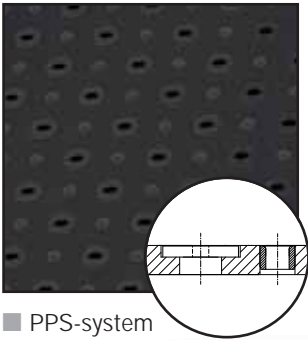
- Snug fit, floating (XY positioning)
- Without fit (only clamping)



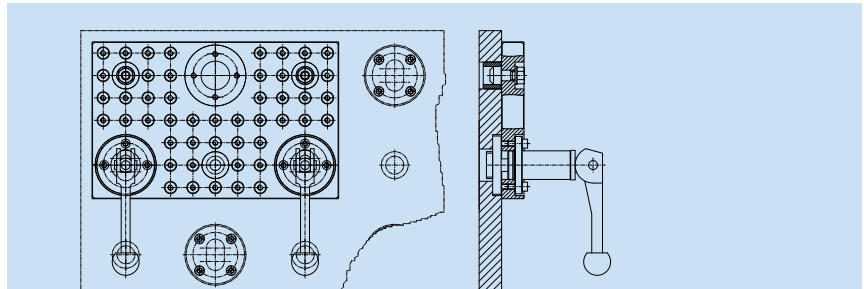


## Set up surface

PPS



■ PPS-system



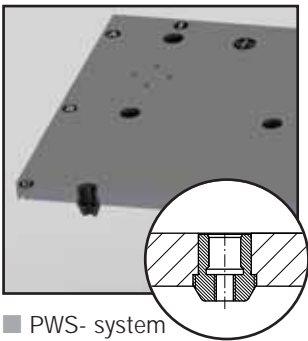
Column connection with Witte **PPS**-quick clamp system

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

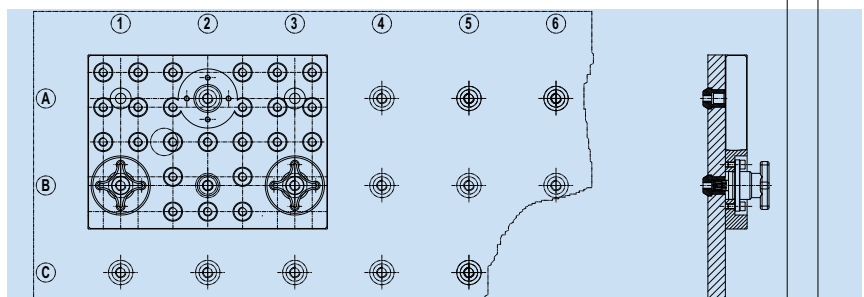


## Set up surface

PWS

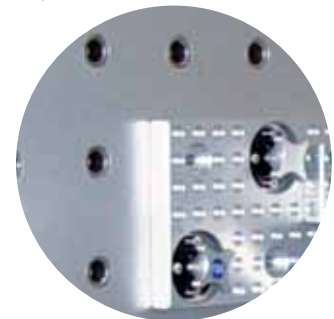


■ PWS- system

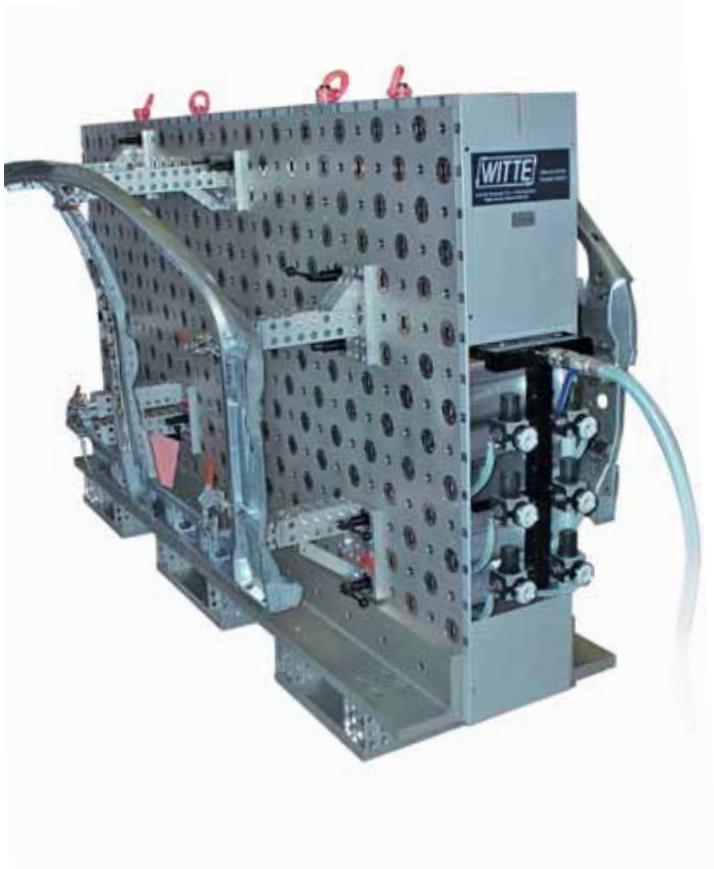


Column connection with Witte **PWS**-quick clamp system

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

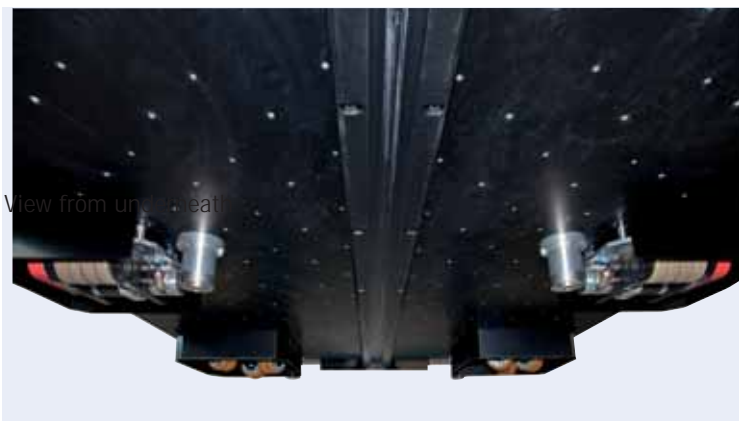


 **Witte FixBase®** elements can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request.



## AluSandwich Roller Plate

with floating heavy duty guided rollers



### Applications:

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

### Characteristics:

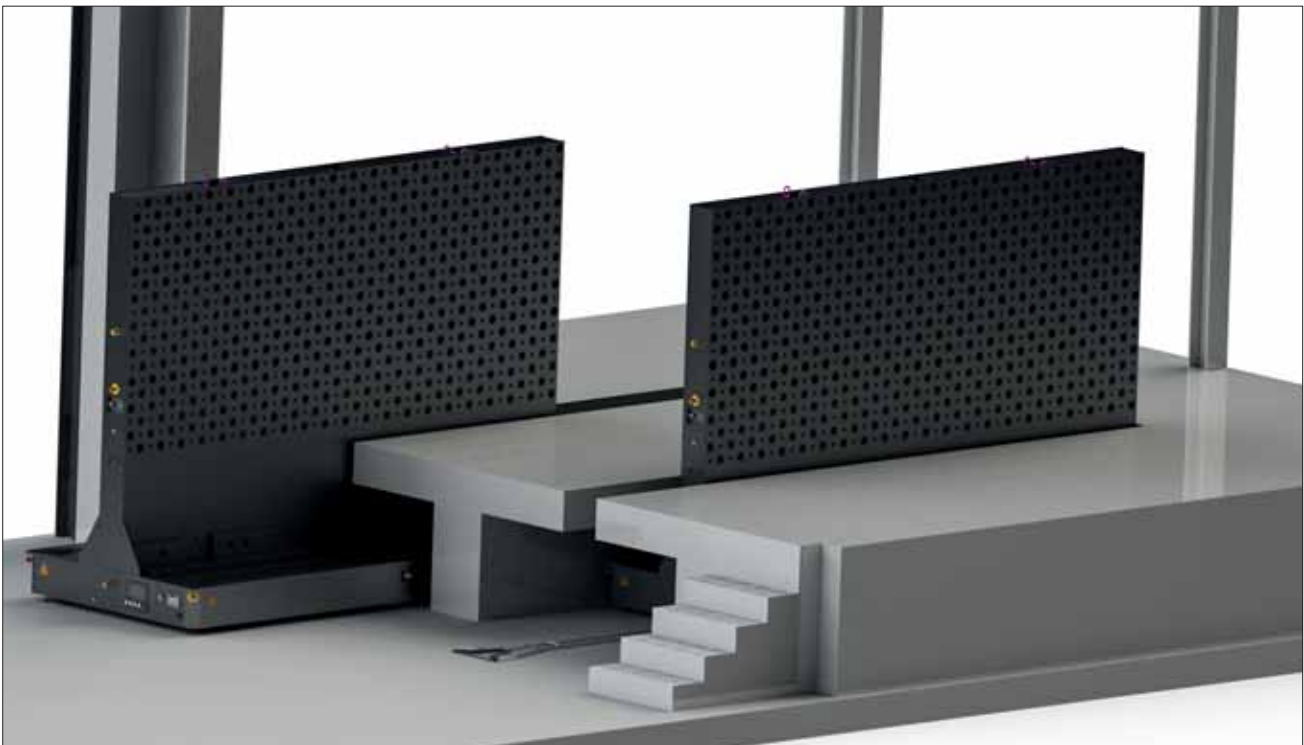
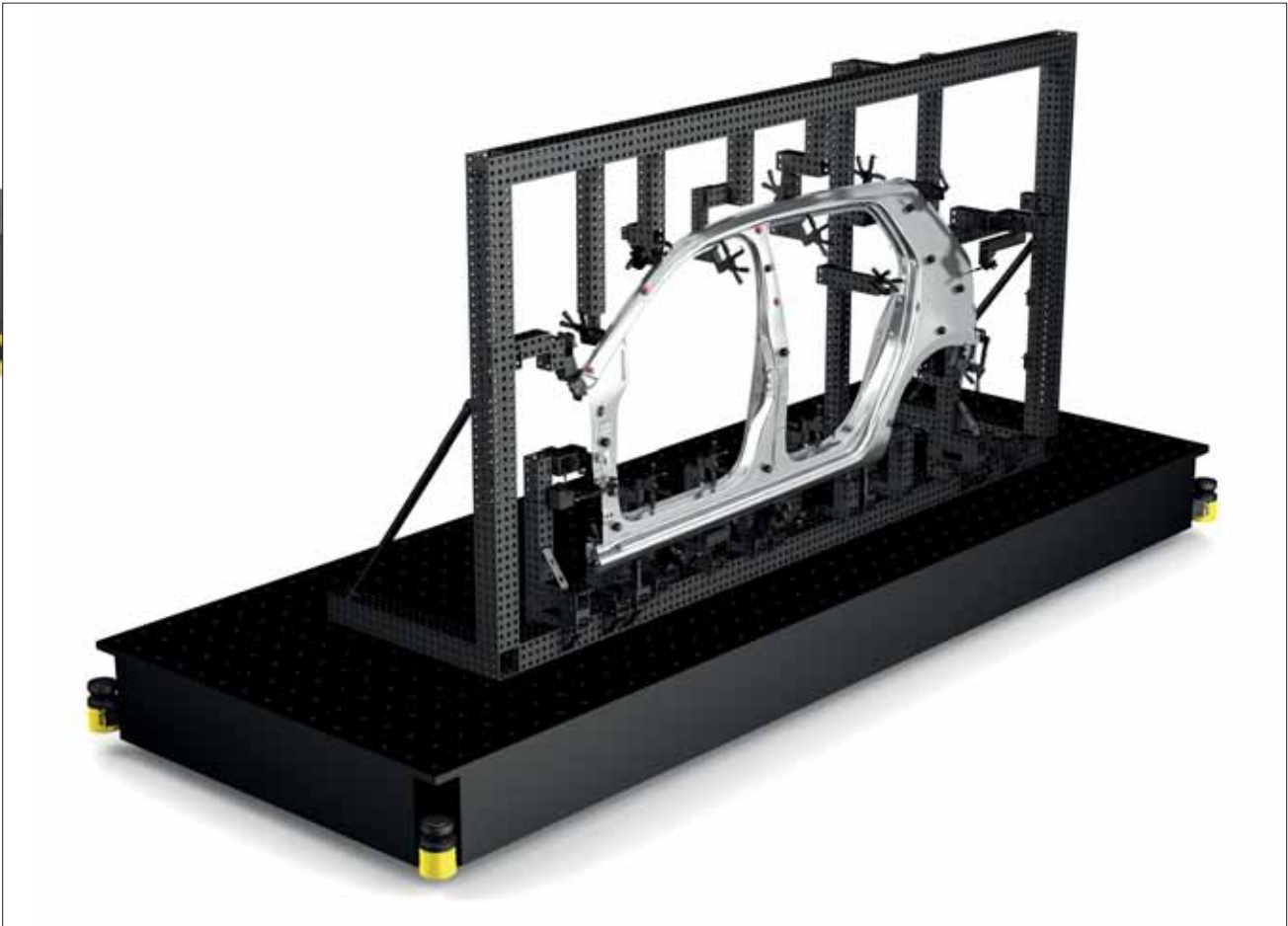
- Automatic crawl speed when reaching final position


### Equipment options:

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



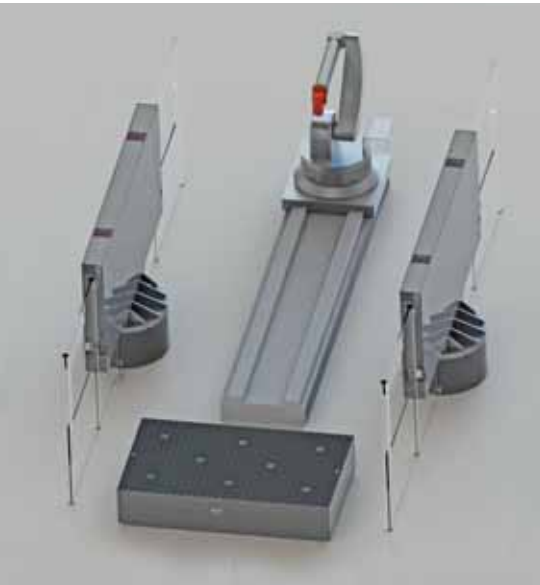
Control panel with camera monitor



 **Witte FixBase®** Elemente können in unterschiedlichen Farben eloxiert geliefert werden. Die Farbe „Natur“ ist Standard, „Schwarz“ (-1) ist alternativ lieferbar. Weitere Farben auf Anfrage

## Alu Sandwich Plates

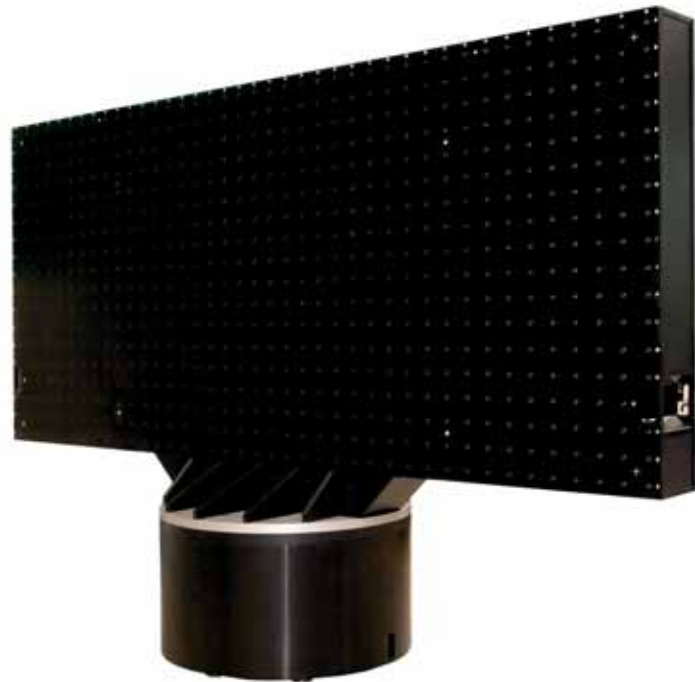
rotating



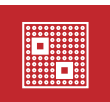
Robot measuring cell for optical measuring

Configuration:

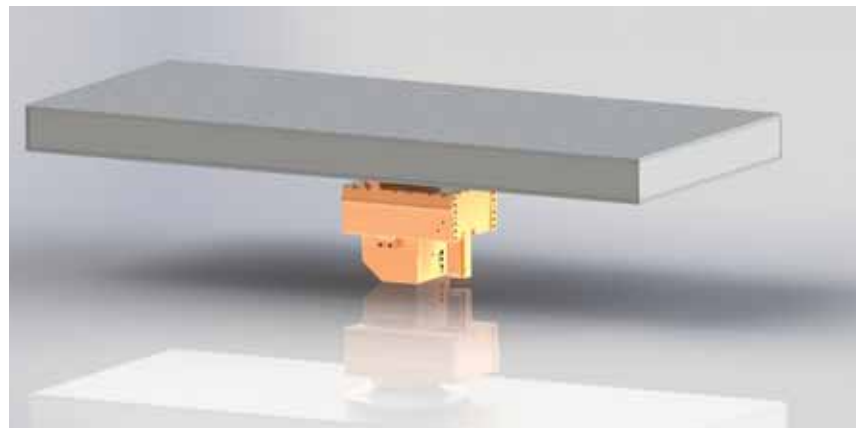
- 2 vertical sandwich plates mounted on rotating hovercraft supports, rotatable by 180°
- 1 stationary, horizontal sandwich plate with extended height
- On hovercraft, rotary and tact tables
- To reach both work pieces or do assembly from outside without interrupting measuring process
- Integrated safety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



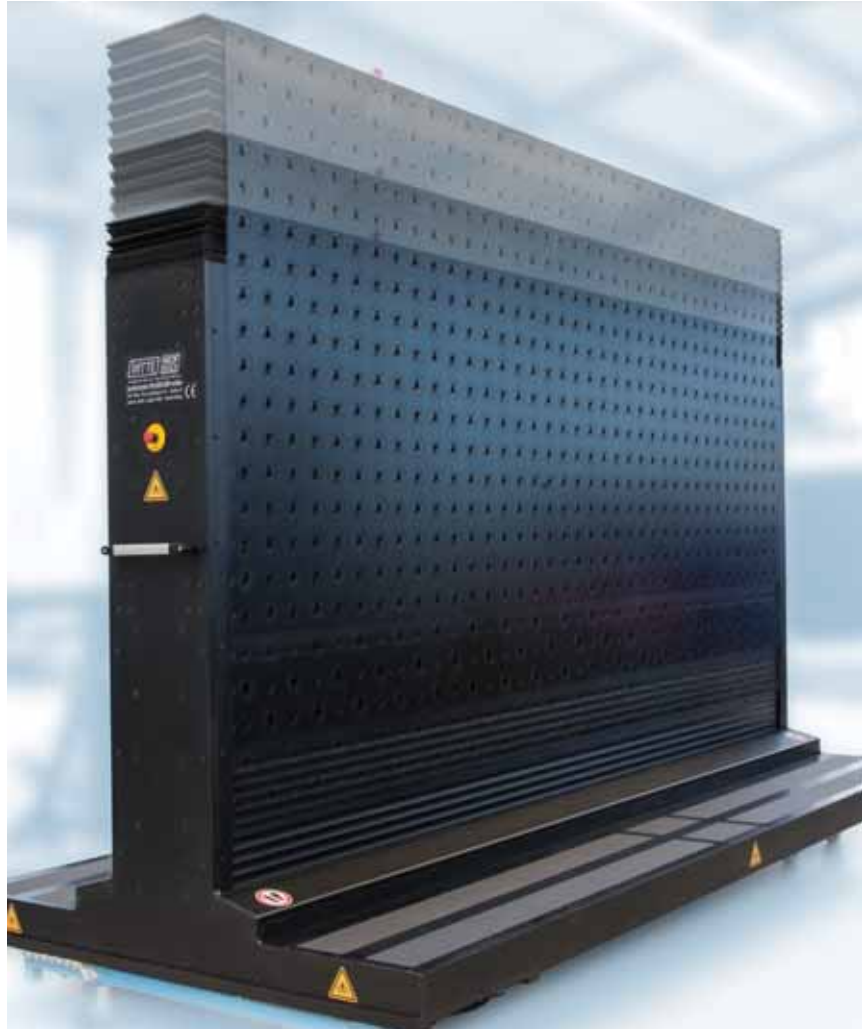
## Alu Sandwich Plates


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®** Elemente können in unterschiedlichen Farben eloxiert geliefert werden. Die Farbe „Natur“ ist Standard, „Schwarz“ (-1) ist alternativ lieferbar. Weitere Farben auf Anfrage

# 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

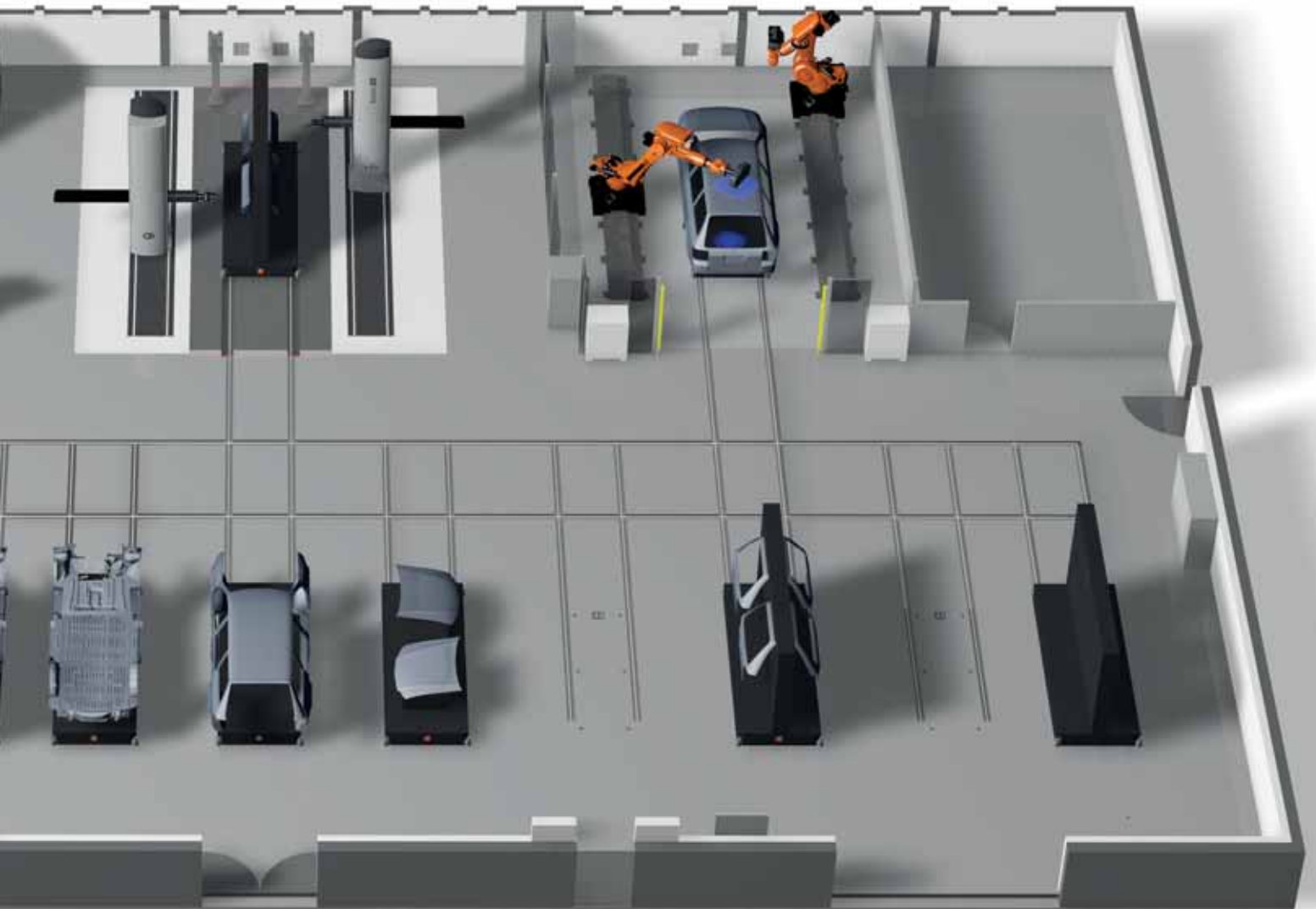


Example of a recent project:

- 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

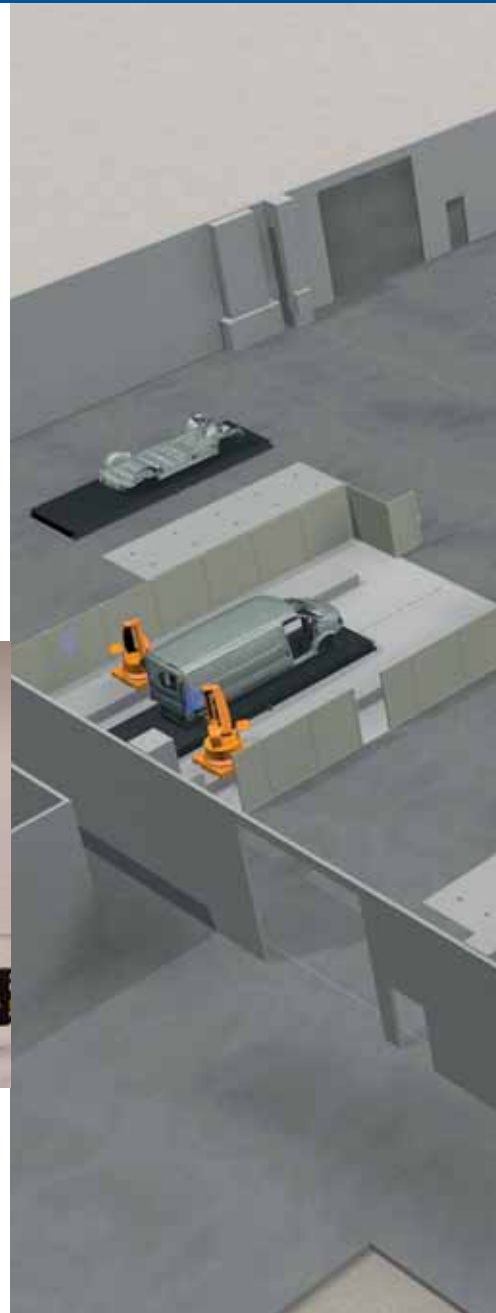
For fully automatic loading systems

- 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

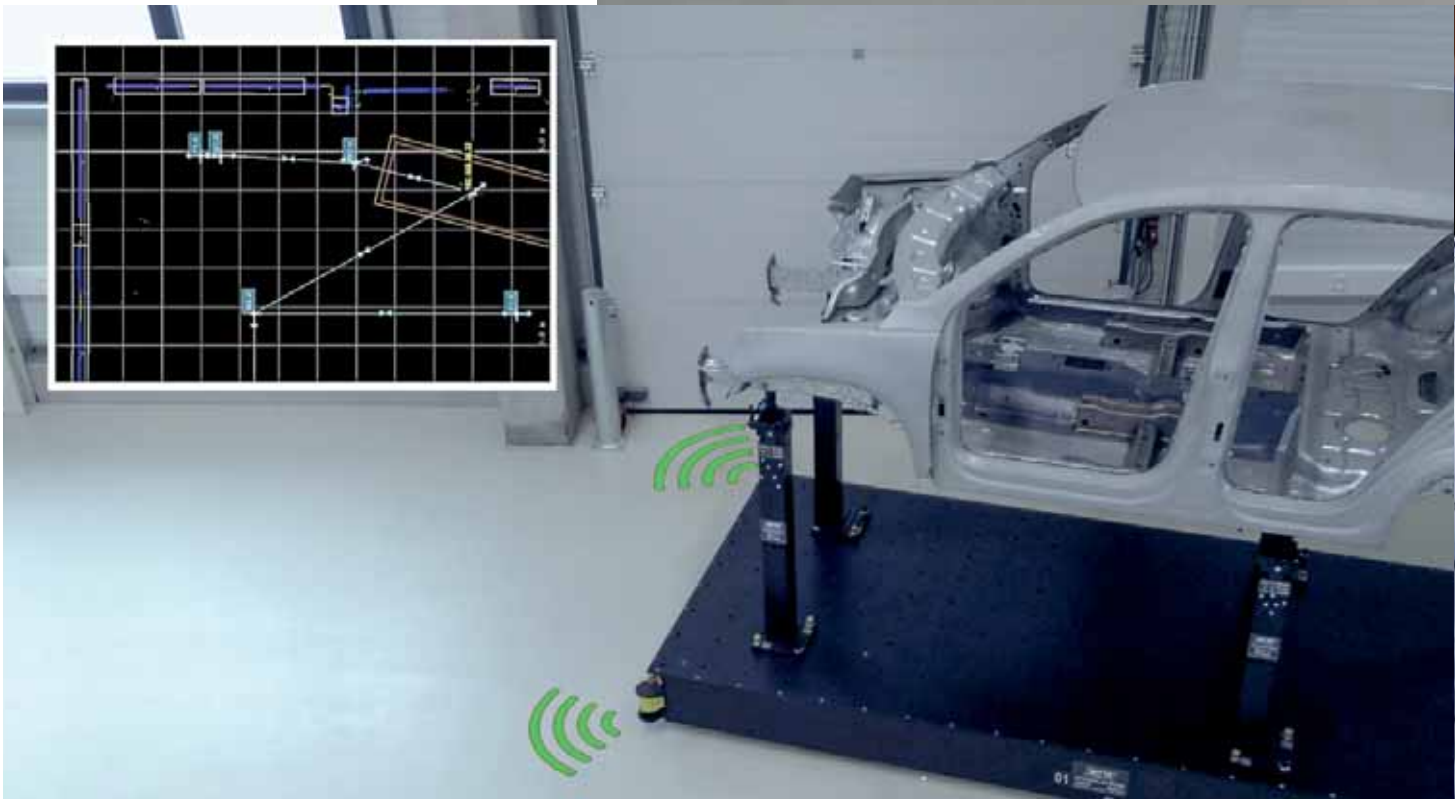
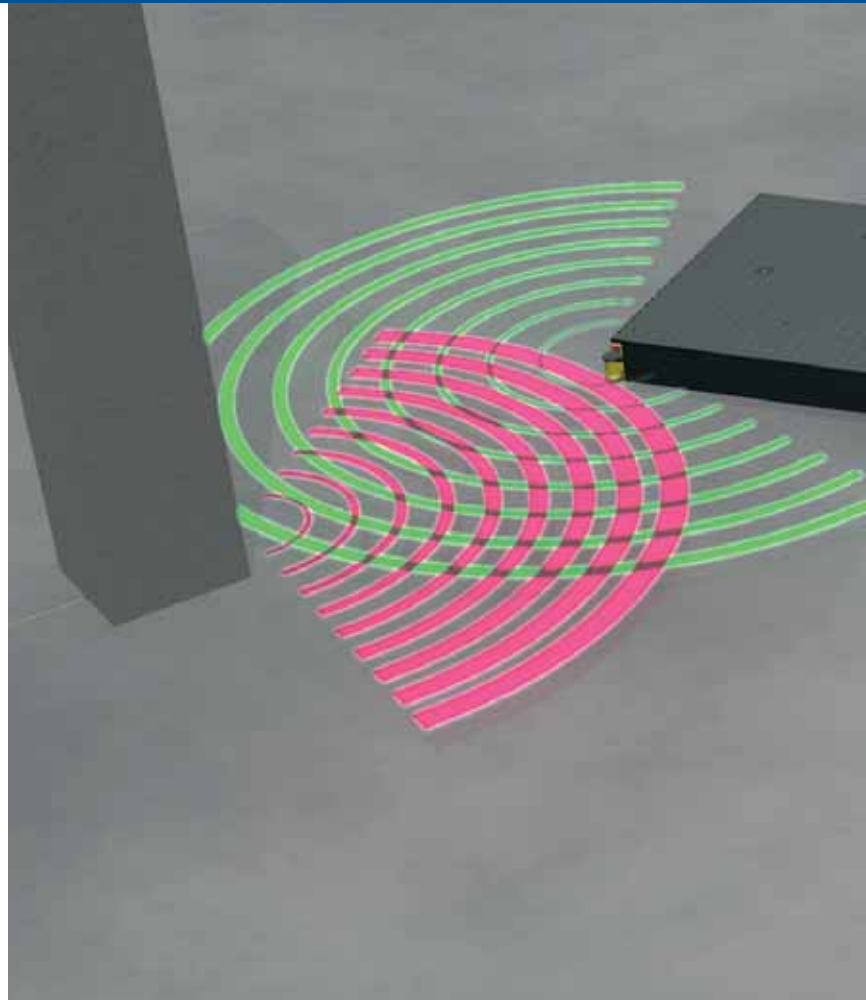


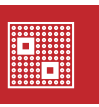
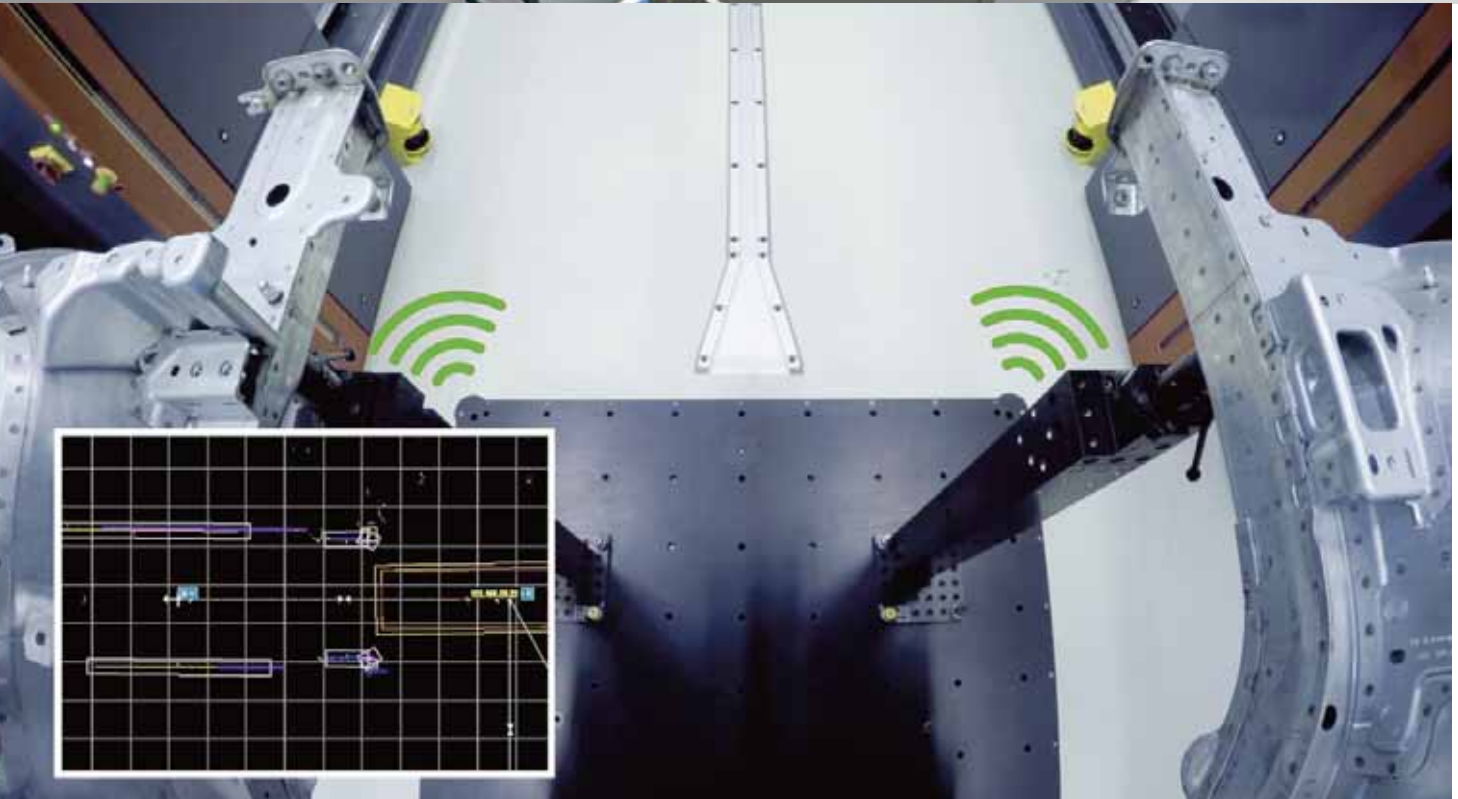


# DTS - Driverless Transport Systems

## Autonom navigation

- 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.



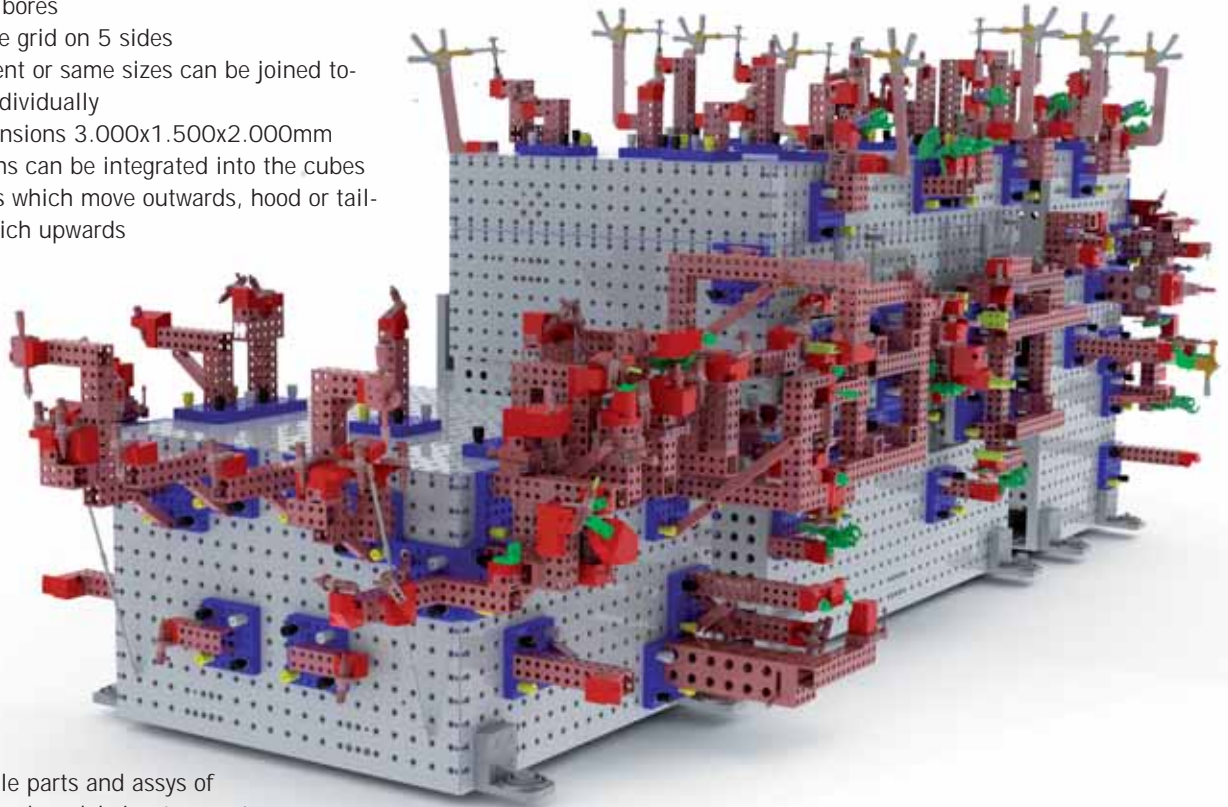
## Alu sandwich plates Heavy load version

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.

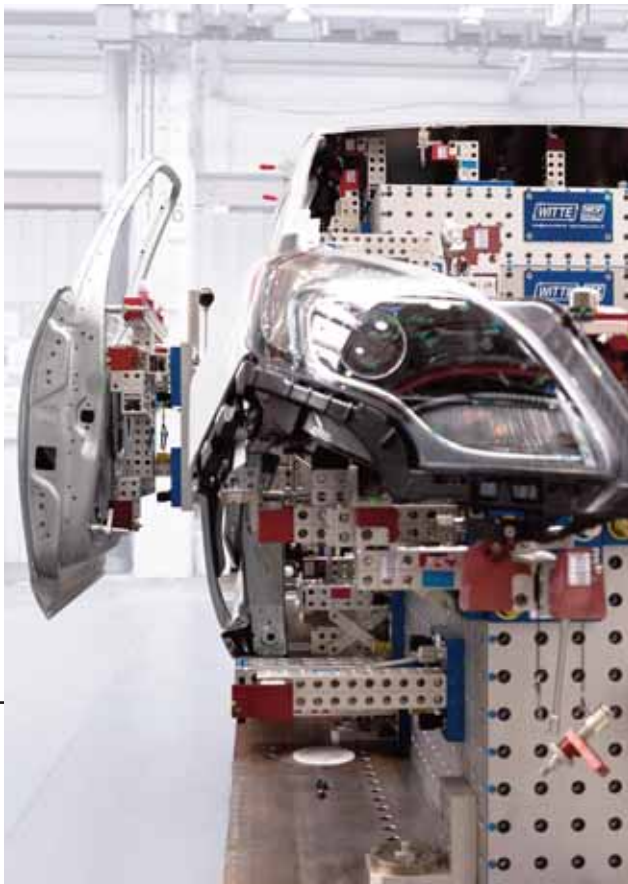
Fully loaded the plate can be moved with only two persons, with the help of the electro mover even by one person on their own.

## FixBase® Cubes

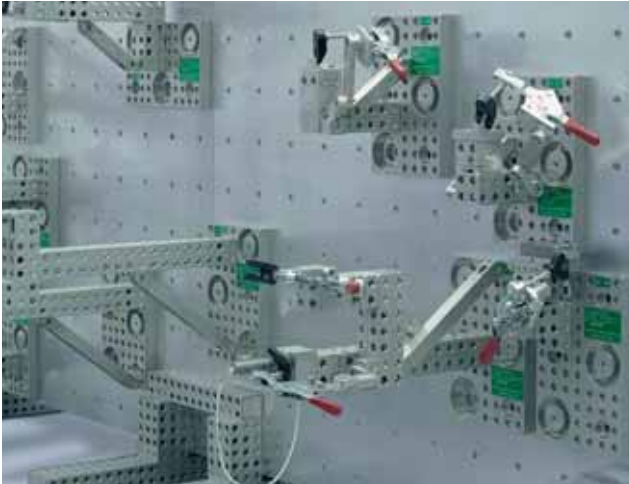
- Cubes mounted with grid plates:
- Grid with fitted bores
- Flat, full surface grid on 5 sides
- Cubes in different or same sizes can be joined together or used individually
- Maximum dimensions 3.000x1.500x2.000mm
- Further functions can be integrated into the cubes i.e. door supports which move outwards,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



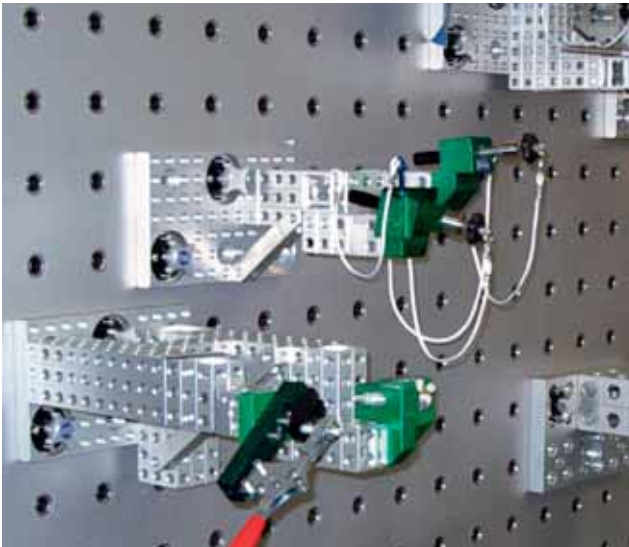
Supports for single parts and assys of various versions and models i.e. two-seater, notchback, limousine, estate, van, SUV are possible using corresponding configurations



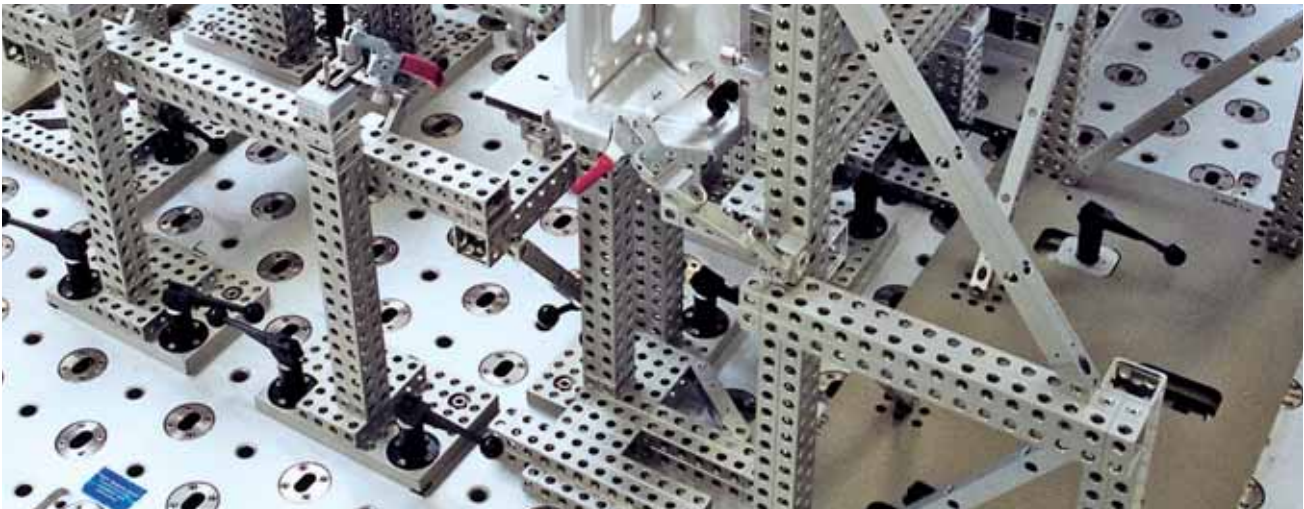
- Application example for FixBase cubes
- Single cube for frontend (top)
  - Combination of several cubes to mount all parts of a body-in-white



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.

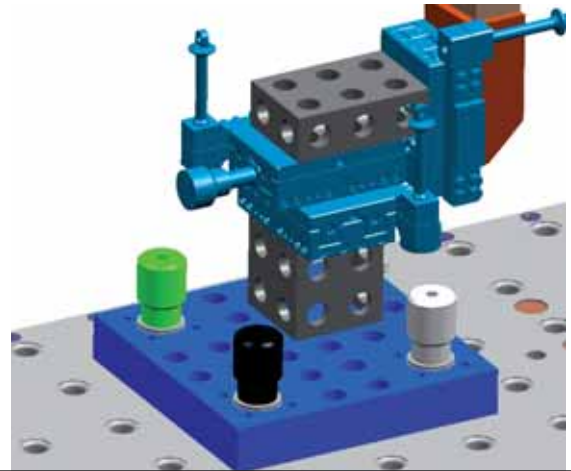
Longer bars on columns are supported by sharp angled struts or connected with one another when mounted.



## Column connection

with fitting screws for basic grid holes

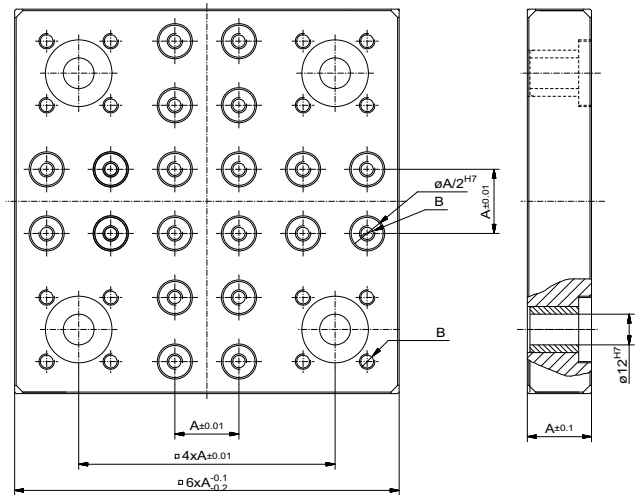
- Simple and proven version.  
Two types of locators are available:
- Snug fit, floating (XY positioning)
  - Without fit (only clamping)



## Footplate

150 x 150, AF 25/50

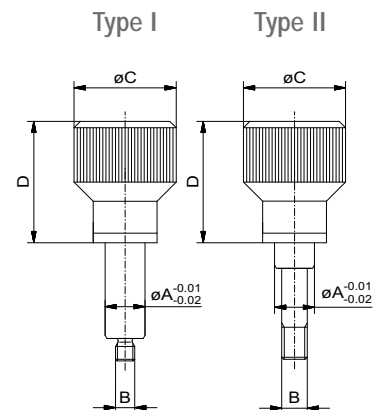
Nr.	A	B	C		
289356	25	M6	ø12H7		1.500



## 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

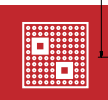
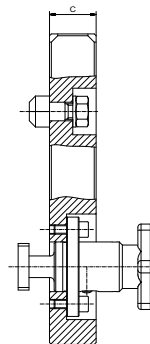
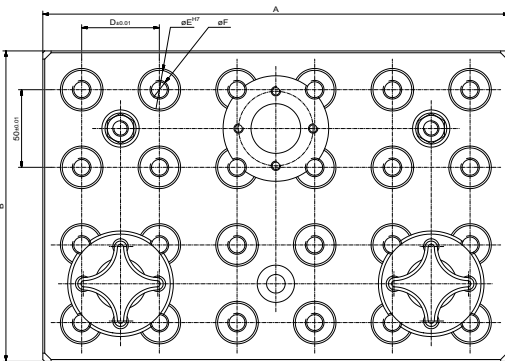
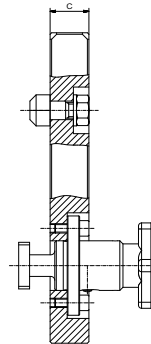
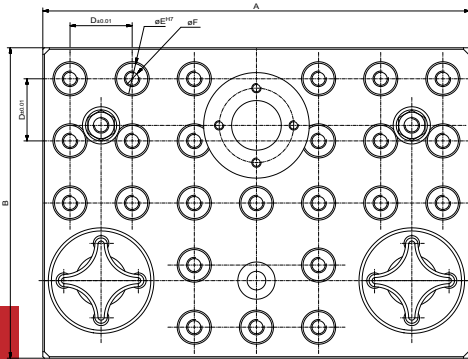
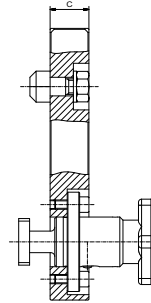
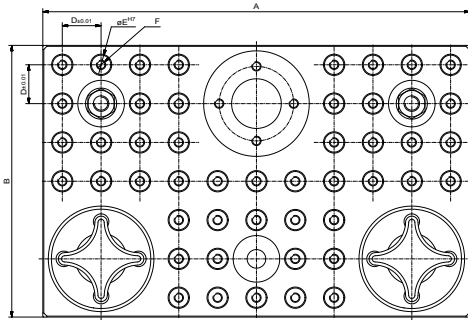
Separate positioning and fixation of footplates via centering pin and clamp units



### Footplate for Witte PPS System

with star knob

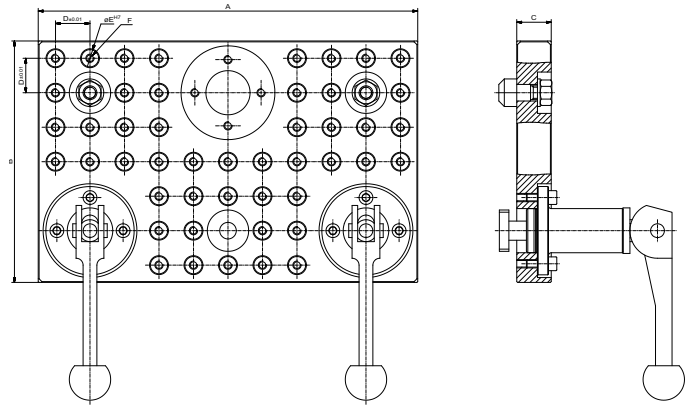
Nr.	System	A	B	C	D	E	F	g
93513	AF 25	275	175	25	25	12,5	M6	3.300
93514	AF 40	275	200	25	40	20	M10	3.740
93515	AF 50	300	200	30	50	25	M12	5.100



## Footplate for Witte PPS System

with hand lever

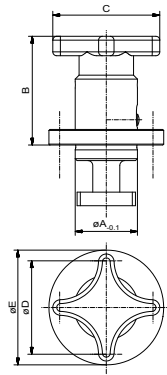
Nr.	System	A	B	C	D	E	F	
84608	AF 25	275	175	25	25	12,5	M6	3.950
84609	AF 40	275	200	25	40	20	M10	4.400
91050	AF 50	300	200	30	50	25	M12	5.560



## Lock unit

with star knob

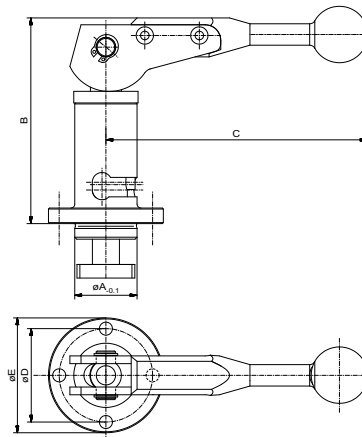
Nr.	A	B	C	D	E	
93444	32	56	55	48	59	280



## Lock unit

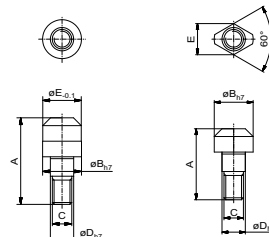
with hand lever

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



#27954

#27955



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.

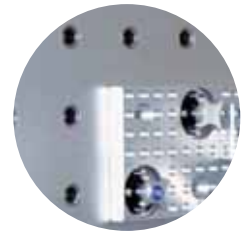
Accessories such as wheels, hook eyes, angle plates and fitting screws see at page 186



## Column connection

with Witte PWS quick clamp system

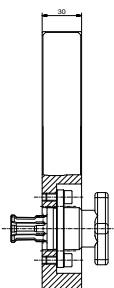
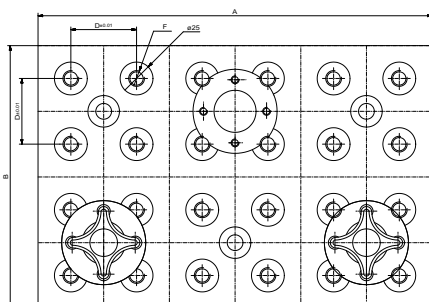
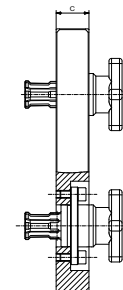
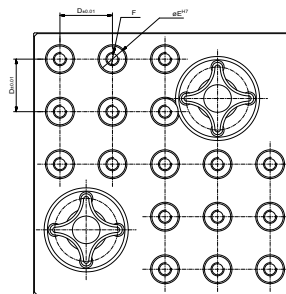
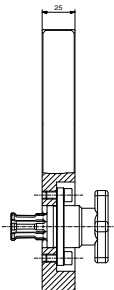
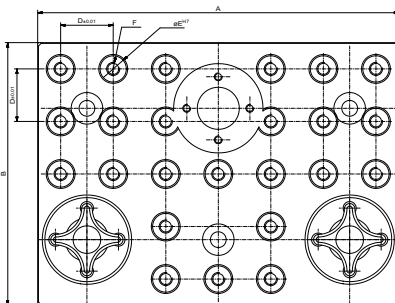
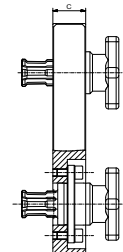
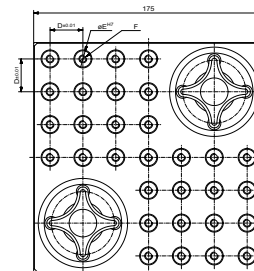
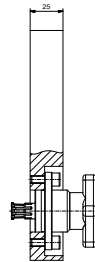
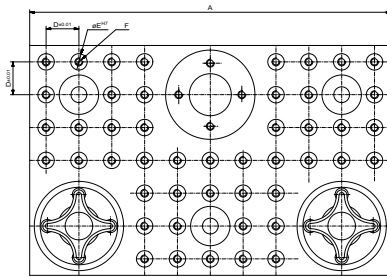
Expanding clutch bolt centers and clamps footplate on PWS grid or sandwich plate



## Footplate for Witte PWS System

with expanding clutch bolt 45°

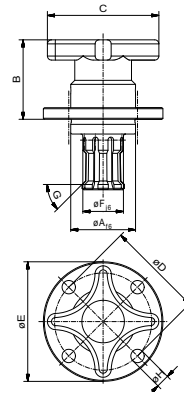
Nr.	Typ	A	B	C	D	E	F	g
93525	2	175	175	25	25	12,5	M6	2.280
93524	1	275	175	25	25	12,5	M6	3.050
92883	1	175	175	25	25	12,5	M6	2.370
92842	1	275	175	25	25	12,5	M6	3.080
92950	1	200	200	25	40	12,5	M10	3.200
92843	1	275	200	25	40	12,5	M10	3.540
92844	1	300	200	30	50	12,5	M12	4.840



## 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

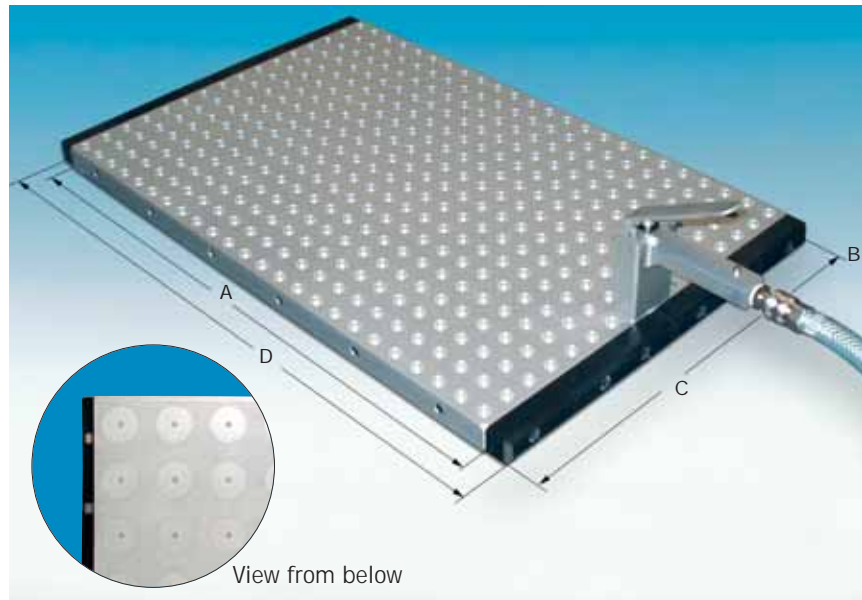


Witte FixBase® elements can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request.

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	kg
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



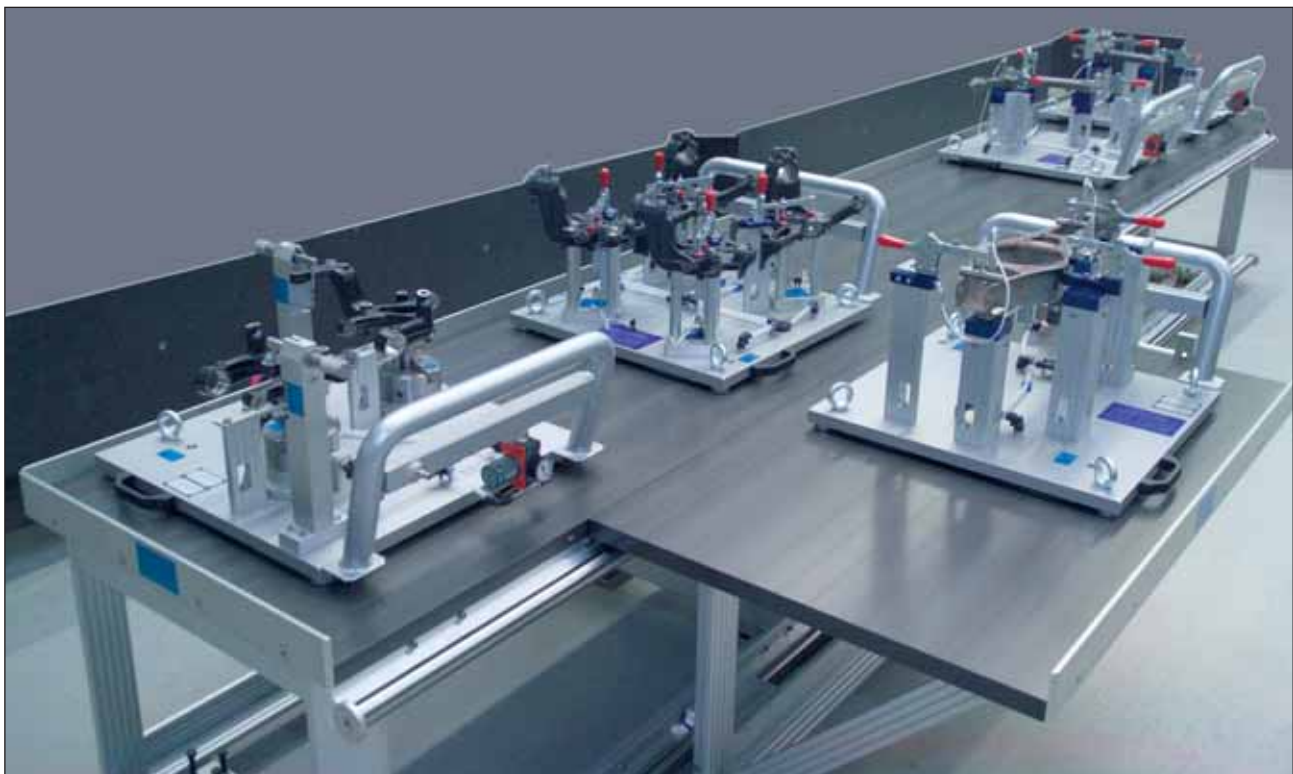
## Jack up trolley

loading systems

Nr.	Table area	Lift	kg
81945	675 x 675	300	75
82280	725 x 950	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



**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** **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



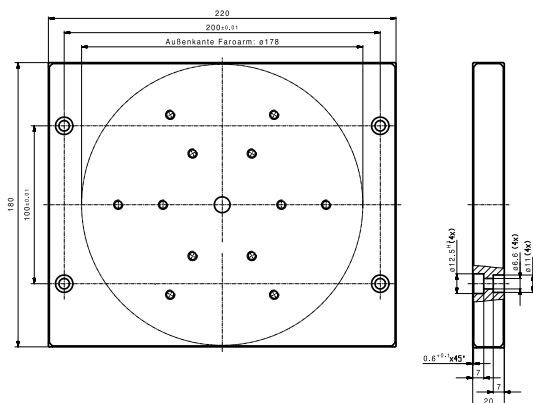
### Mobile measuring unit

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

# 282446

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.

**i** 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

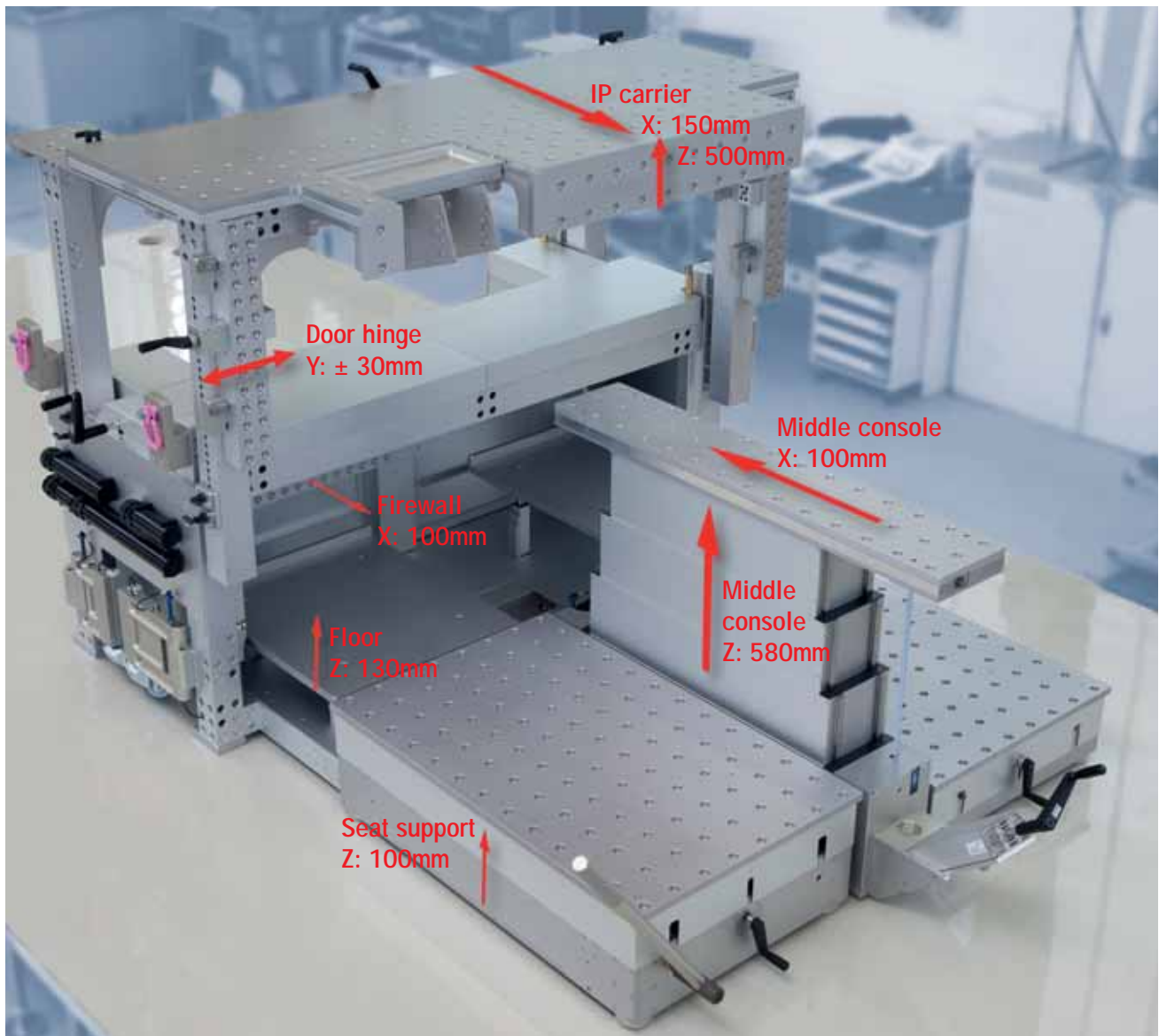
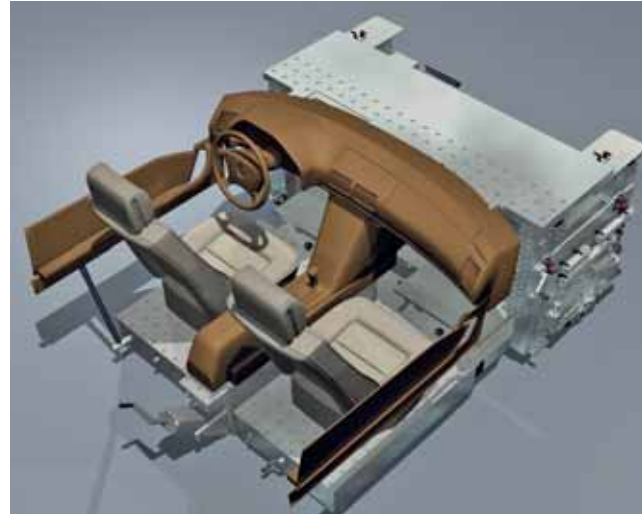
- Instrument panel with steering wheel connection and option to mount inner door models
- 2 dockable seat supports
- Dockable middle tunnel

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

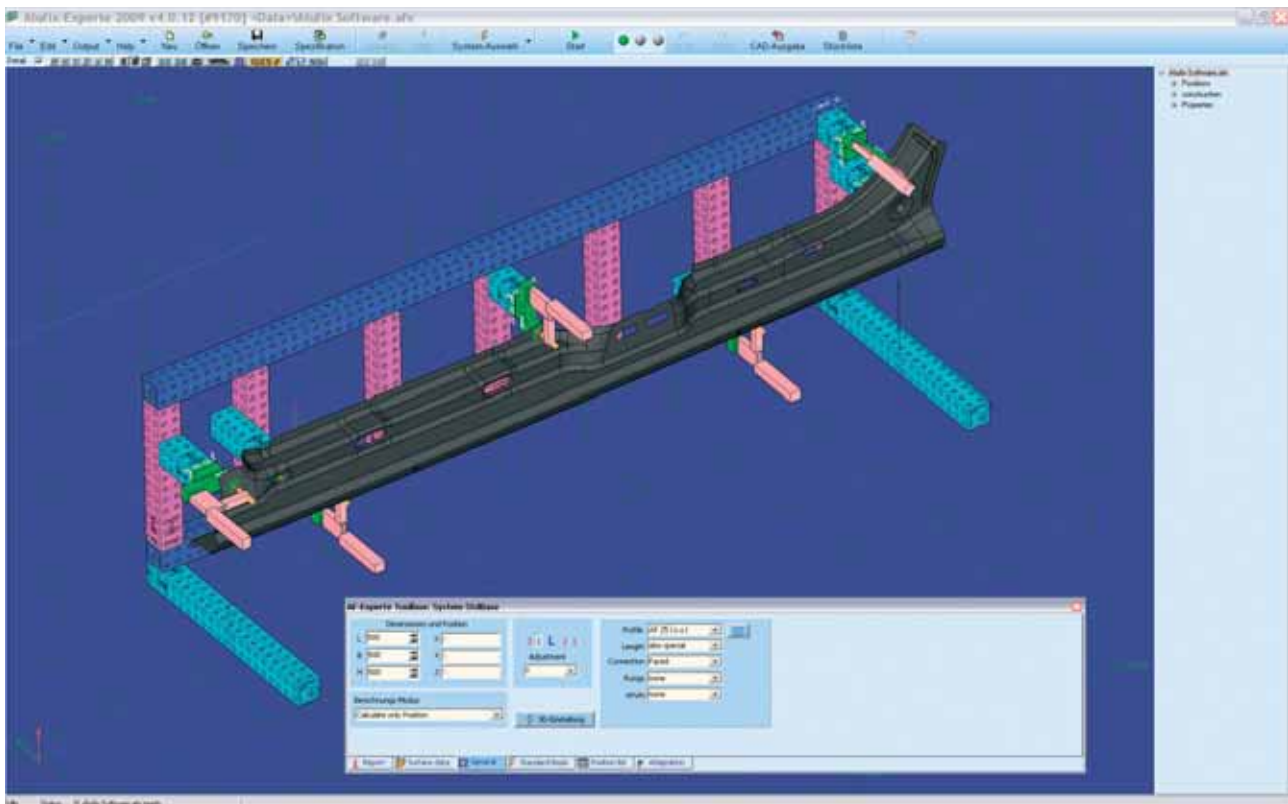


# Alufix Expert 2016

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 impor-

ted. 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.




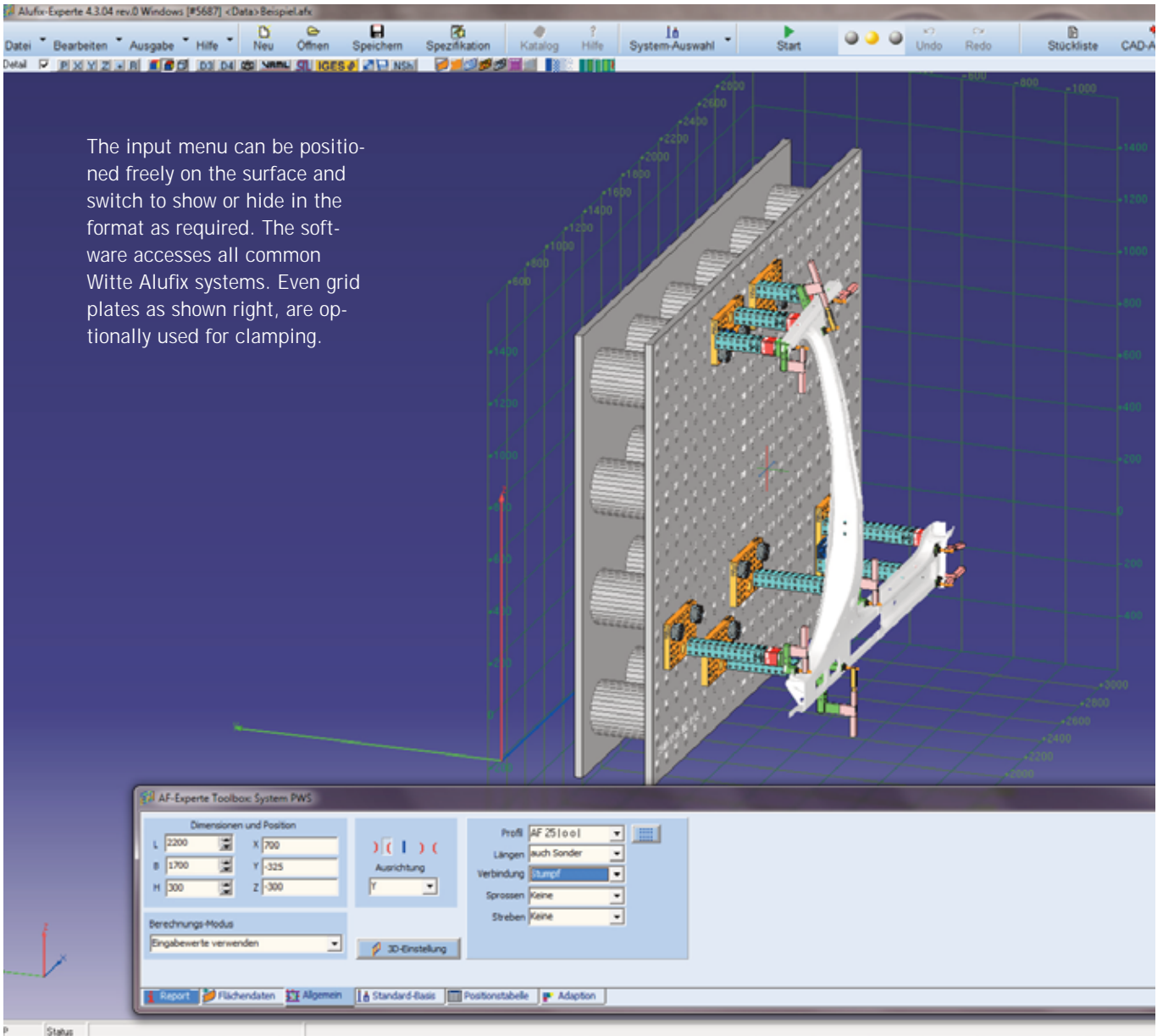
**Partlist for C:\Dokumente und Einstellungen\roeber\Eigene Dateien\...**

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	29658	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

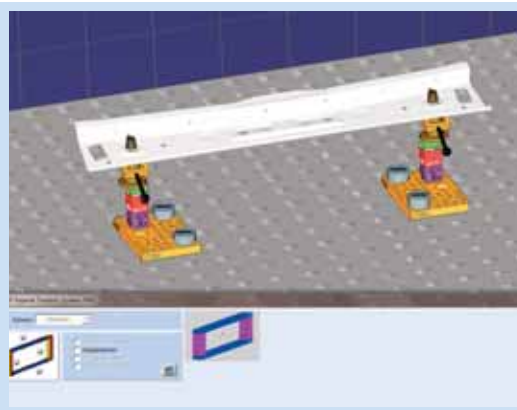
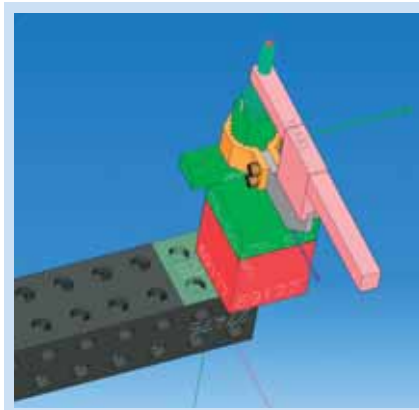
Buttons: Print, Save, Export, Quick-connectors, No connectors, Screw connectors

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



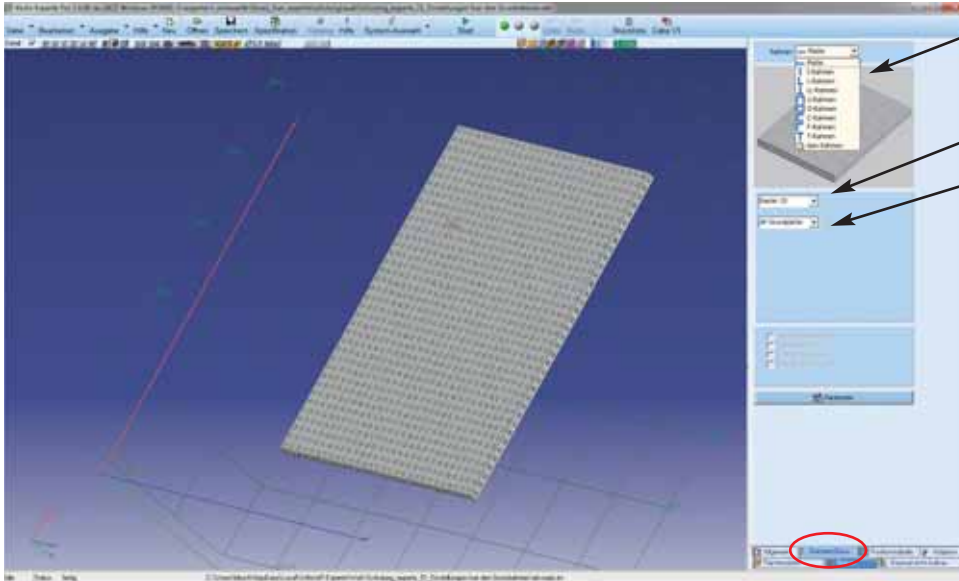
The input menu can be positioned freely on the surface and switch to show or hide in the format as required. The software accesses all common Witte Alufix systems. Even grid plates as shown right, are optionally used for clamping.



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:

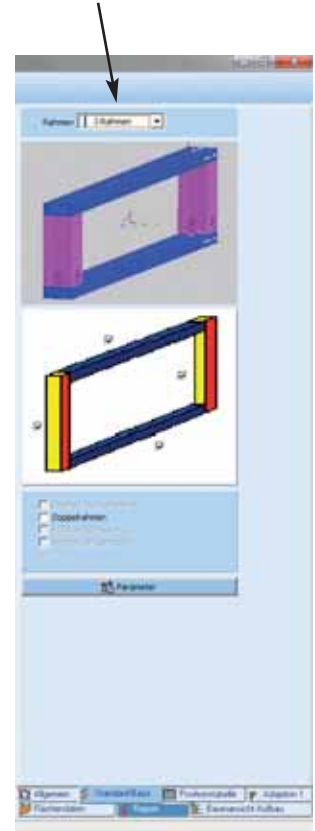


Selection of base plate or frame.

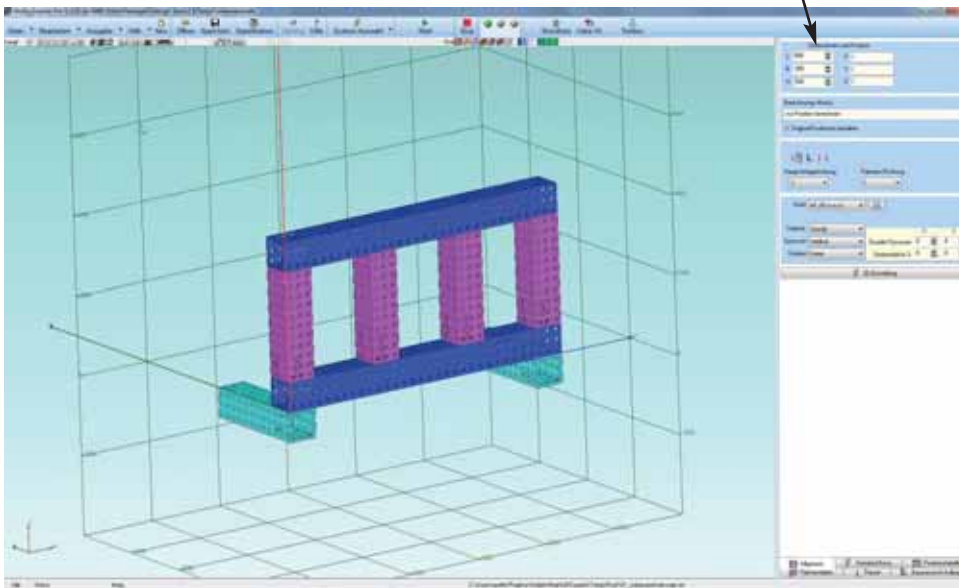
Selection of system size

Selection of plate

If frame was chosen, define here type of frame



Define here dimensions and orientation of base plate or frame

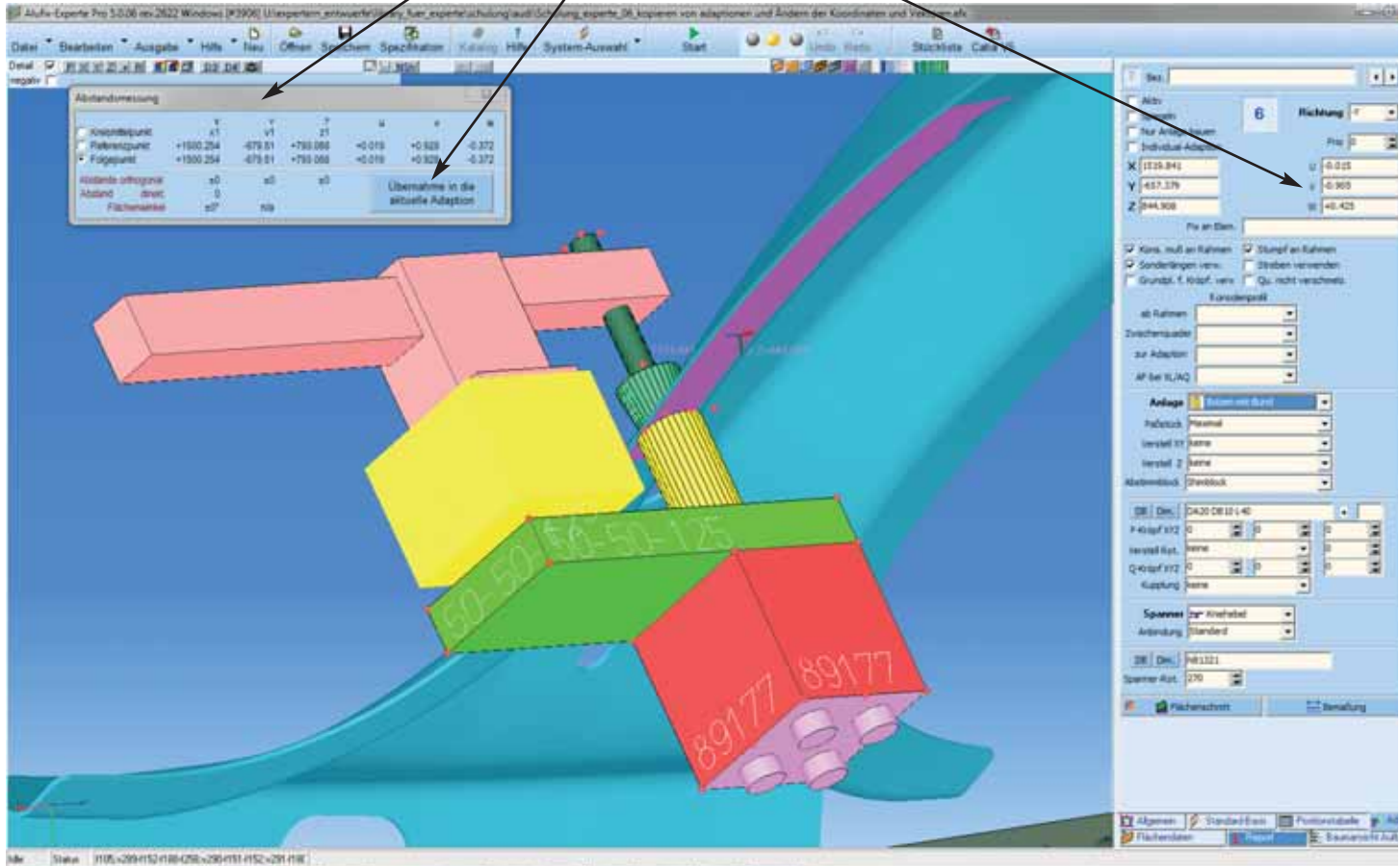


Example: Measuring contact point and transfer into column

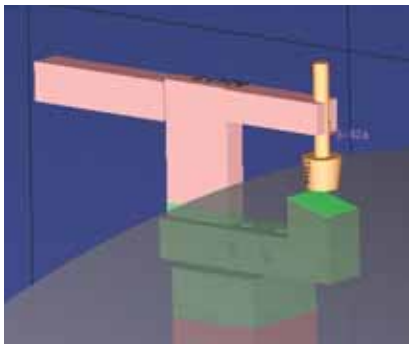
Measuring function

Transfer Mp

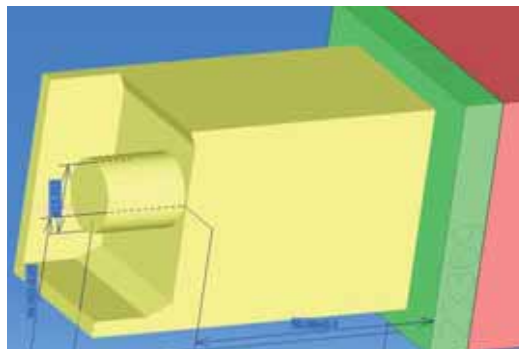
Change of vector



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

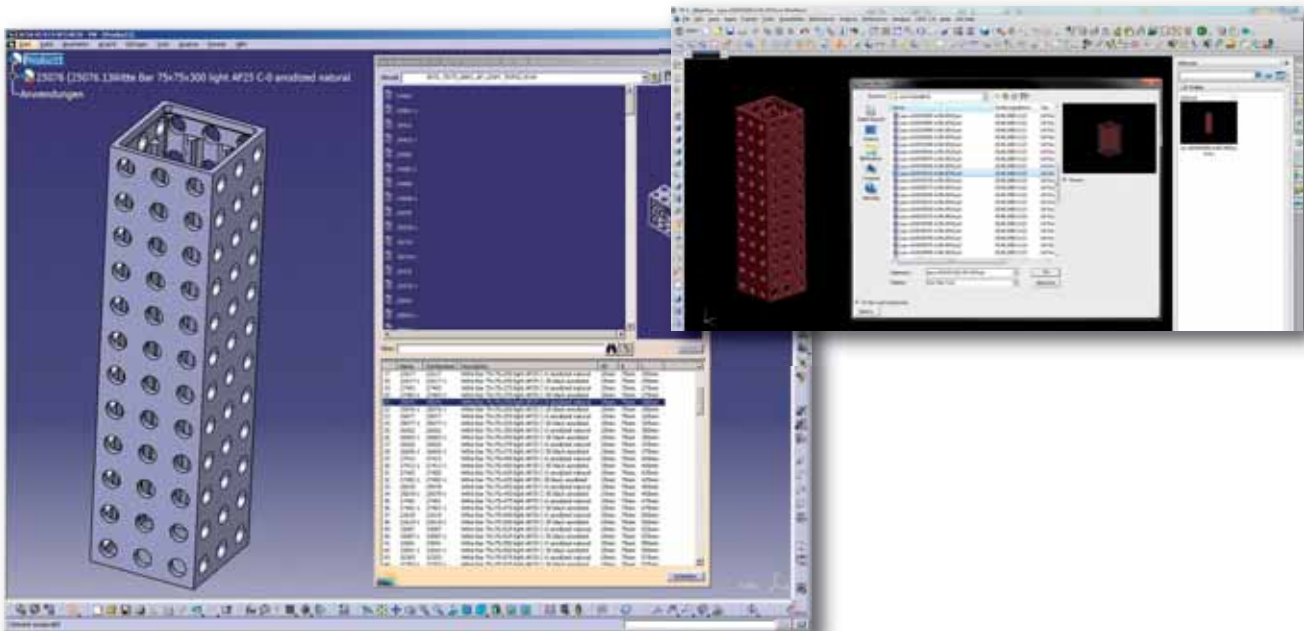
Alufix elements stored with attachment \*.igs

### 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](http://www.partserver.de)

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



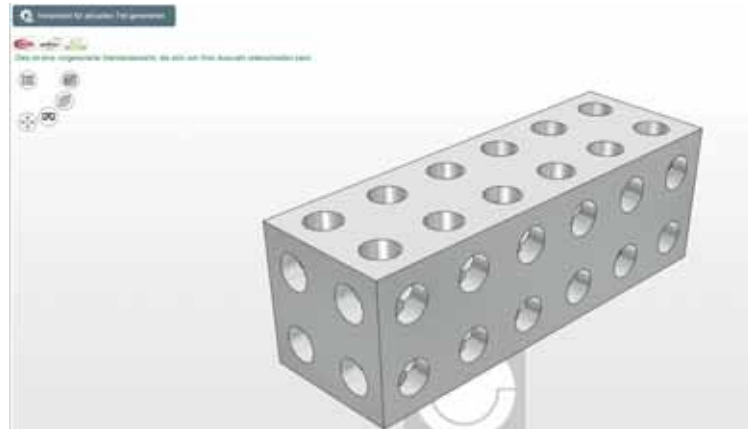


# Modular Fixturing Systems – PDF Catalogue

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

The E-Book offers additional functions:

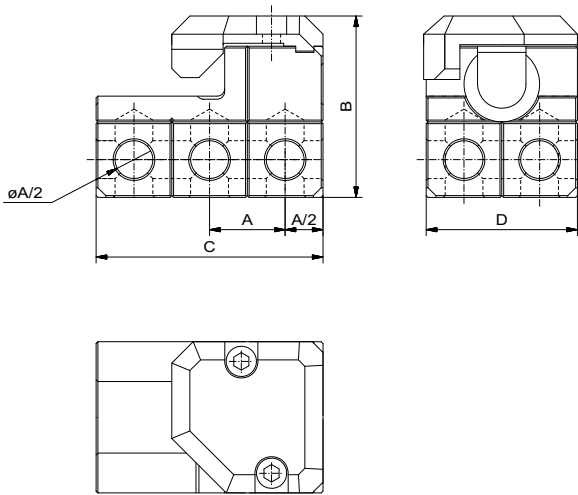
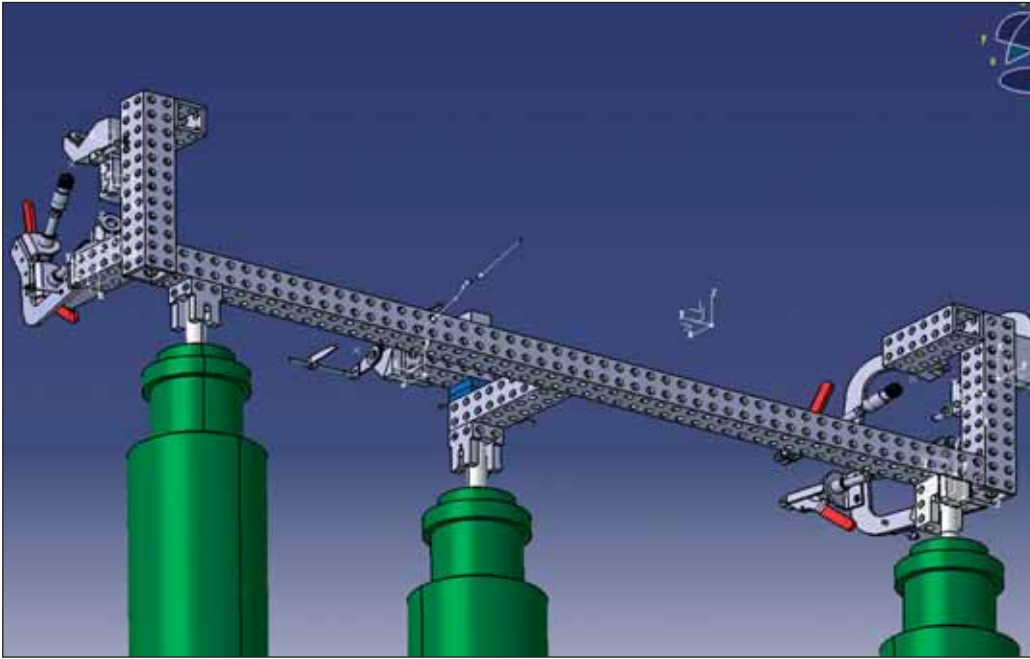
- Portrayal of items with a 3D viewer, just double click on item number.



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

The screenshot shows a web browser window with the URL <https://media.witte-barskamp.com/cms-katalog/de/alufix>. The page features a large 3D rendering of a modular transport system. On the left, there is a text block titled 'FTS - Fahrerloses Transport System mit Alu-Sandwichplatten, schienengeführt'. Below this, there are two blue arrows pointing to 'FTS Enden Animation' and 'FTS Enden'. At the bottom of the page, there are three smaller images showing different views of the system, with blue arrows pointing to 'FTS Bx2,4m Animation' and 'FTS Bx2,4m'. The WITTE logo is visible in the top right and bottom left corners of the page.

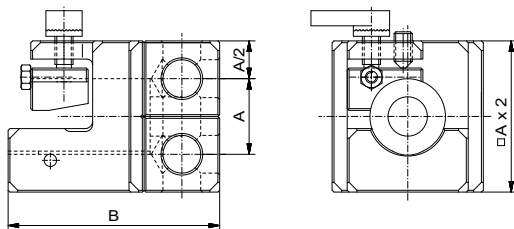
Further information under: <https://www.youtube.com/user/WitteGeraetebau>  
<https://de.industryarena.com/witte>



### 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

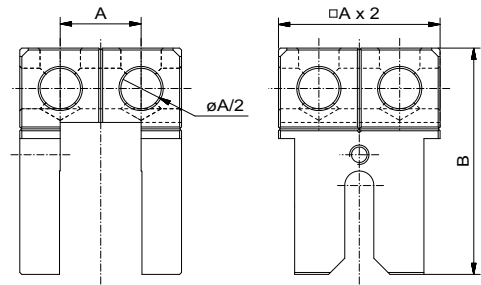
Nr.	A (AF)	A	
82454	25	70	260
82962	40	80	950



## DEA Five U-nique Adapter

adjustable

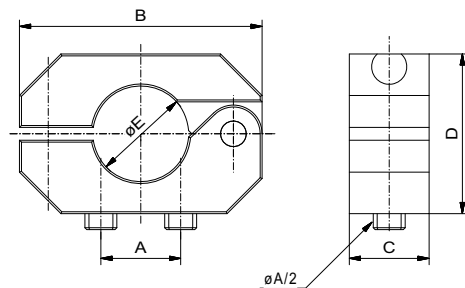
Nr.	A (AF)	B	
92190	25	70	220



## DEA Five U-nique Column clamp

for Adapter V2

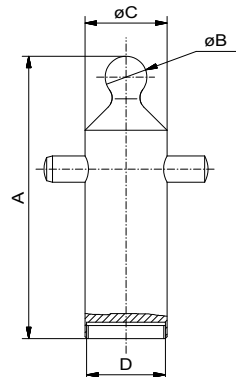
Nr.	A (AF)	B	C	D	E	
90638	25	76	25	50	30	180
90490	25	76	25	50	40	180
90492	40	76	25	65	30	190
95821	40	76	25	65	40	190



## ALUFIX – DEA Five U-nique Adapter

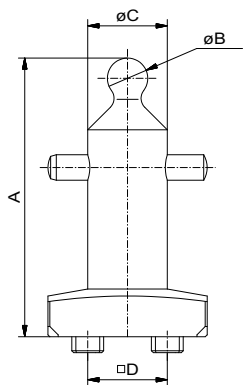
tip, with thread

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



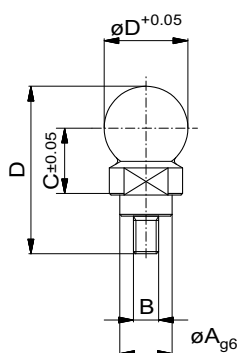
**ALUFIX CLASSIC** elements can be anodized in different colours. The colour natural is standard, black (-1) is available as an alternative. Other colours on request.

Other versions on request



## ALUFIX – DEA Five U-nique Adapter tip, with nub connection

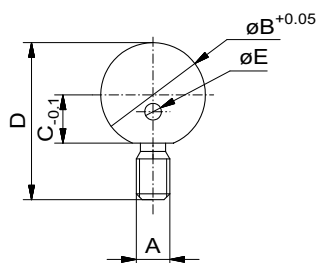
Nr.	System	A	B	C	D	
97439	AF25	87,5	12,5	25	25	210



## Reference ball

for Alufix bore

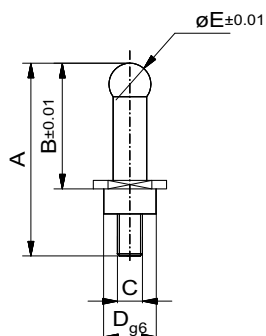
Nr.	A	B	C	D	$\phi D$	Material	
28403	12,5	M6	16	39	18	Aluminium	15
33035	12,5	M6	16	39	18	Steel	90
33516	20	M10	24	59,5	27	Aluminium	80
33517	20	M10	24	59,5	27	Steel	150
83117	25	M12	32	60,5	36	Aluminium	140
84344	25	M12	32	60,5	36	Steel	340



## Reference ball

with thread

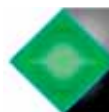
Nr.	A	B	C	D	E	Material	
34150	M8	25	11,5	37,5	4	Steel	64



## 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!



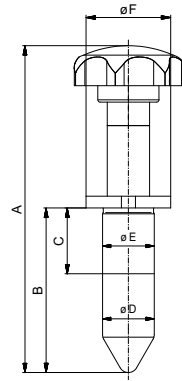
-> Article colour anodized natural

-> Article colour anodized black

## Positioning pin

for plate or bracket with positioning or excenter sleeves

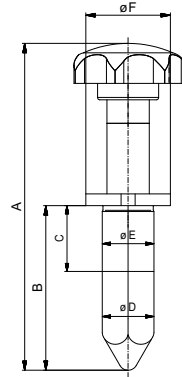
Nr.	A	B	C	D	E	F	
92213	139	70	28	22 <sup>-0,1</sup> <sub>-0,2</sub>	22 <sub>g6</sub>	36	135
92214	144	75	-	-	20 <sup>-0,03</sup> <sub>-0,05</sub>	49	145
92215	139	70	28	22 <sup>-0,1</sup> <sub>-0,2</sub>	22 <sub>g6</sub>	36	180
92216	144	75	-	-	22 <sub>g6</sub>	49	145



## Positioning pin, sword-shaped

for plate or bracket with positioning or excenter sleeves

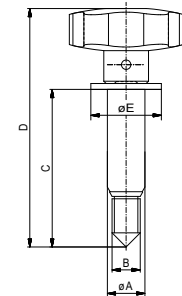
Nr.	A	B	C	D	E	F	
92217	139	70	28	22 <sup>-0,1</sup> <sub>-0,2</sub>	22 <sub>g6</sub>	36	135
92218	144	75	28	-	20 <sub>-0,01</sub>	49	145
92219	139	70	25	22 <sup>-0,1</sup> <sub>-0,2</sub>	22 <sub>g6</sub>	36	180
92220	144	50	28	-	22 <sub>g6</sub>	49	95
92221	144	75	28	-	22 <sub>g6</sub>	49	145



## Fitting screw

for plate or bracket with with positioning or excenter sleeves

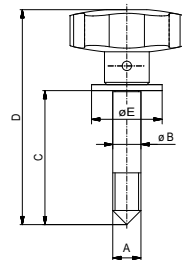
Nr.	A	B	C	D	E		
82342	ø16h6	M12	67	102	30		125
82225	ø16h6	M12	79,5	114	30		145
92488	ø15,98 <sub>-0,02</sub>	M12	67	102	30		125
92489	ø15,98 <sub>-0,02</sub>	M12	79,5	114	30		145



## 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

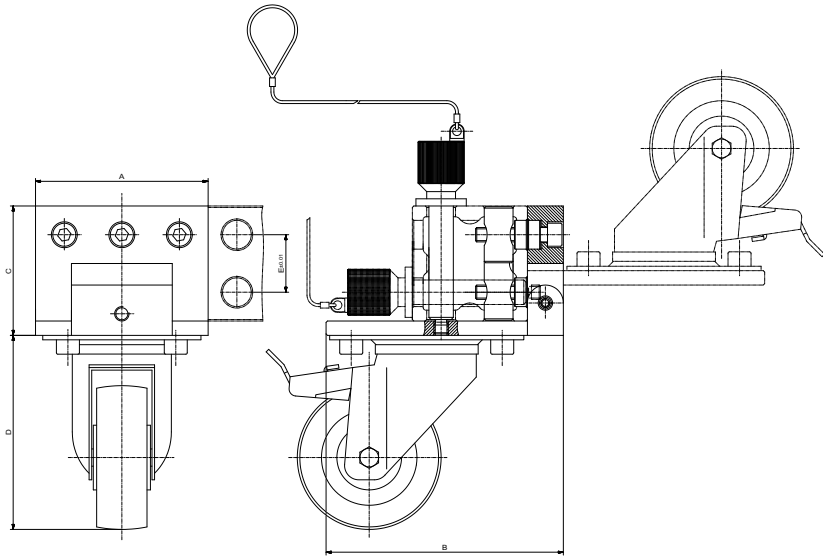




## Castor, fold up

single

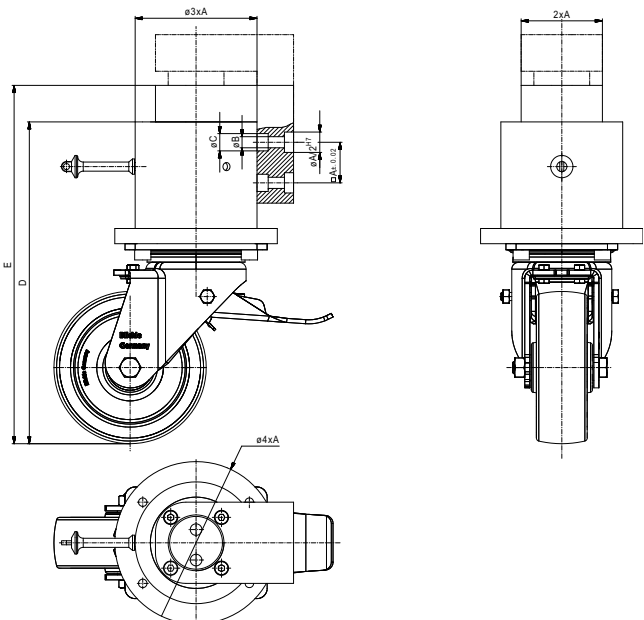
Nr.	System	Type	For bar	A	B	C	D	E	g
93315	AF 40	steerable	80x80	120	165	90	135	10	1.600
93399	AF 40	fixed	80x80	120	165	90	135	10	1.600
92627	AF 40	steerable	120x120	120	165	130	135	10	2.200
92628	AF 40	fixed	120x120	120	165	130	135	10	2.200
92593	AF 50	steerable	100x100	150	165	110	135	10	2.750
92594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



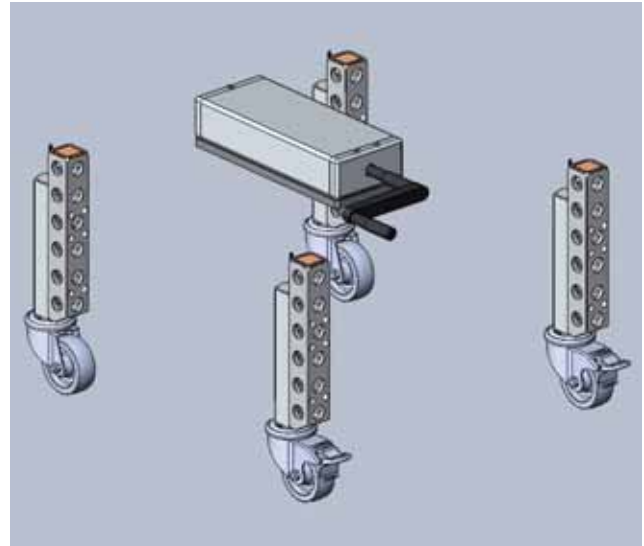
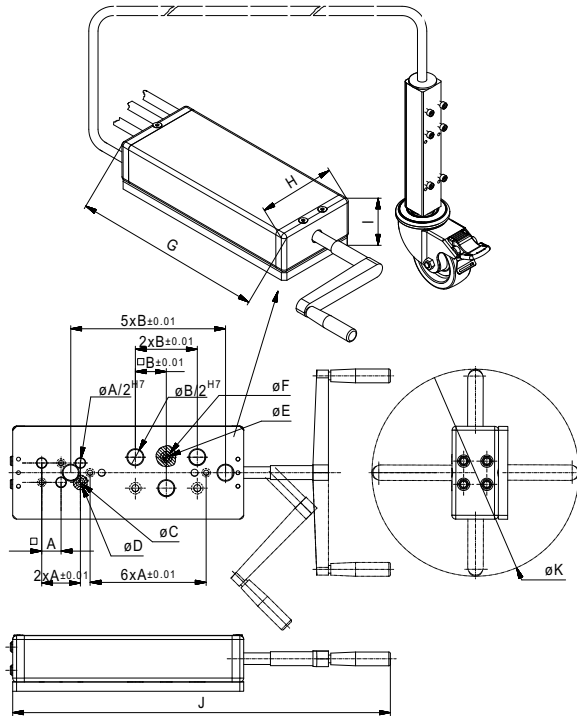
**i** An hydraulic foot pump #16539 is included in supply.  
Connection material, which has to be configured for fixture,  
is available on request



## 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

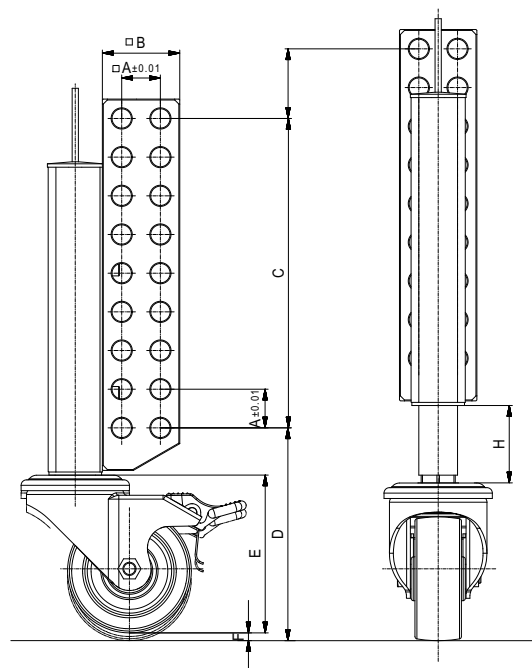


The castor set is for fixtures up to a weight of 350kg.  
Lift is max 150mm. 3m of pre-configured hydraulic connection material per castor is included with supply.  
Profiles shown below are recommended for connection

## Profiles AF for castors

for hydraulic height adjustment

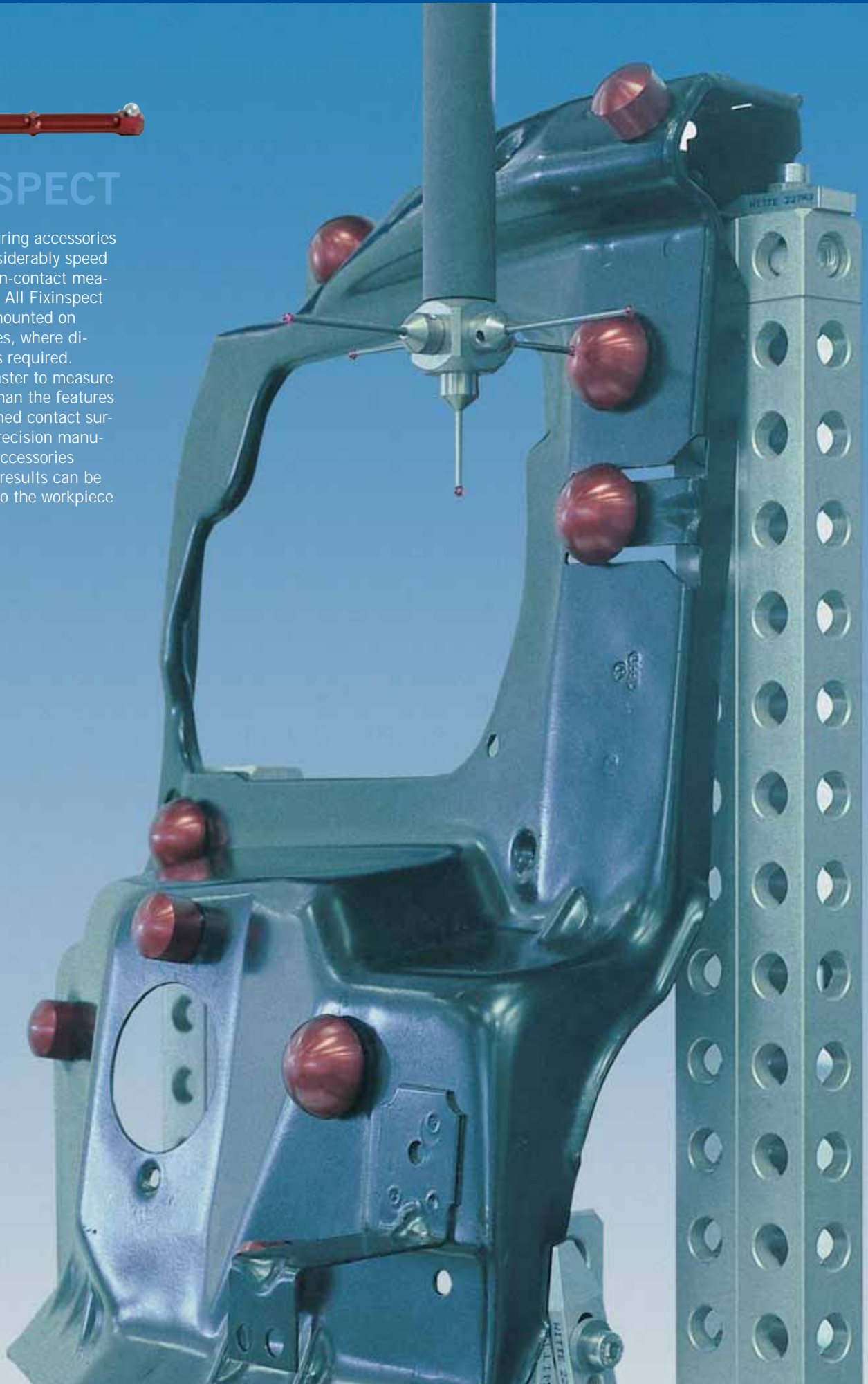
Nr.	A(AF)	B	C	D	E	F	G	H	g
310548	25	50	200	137	102	5	45	50	535
310549	40	40	200	140	102	5	45	50	445





## 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**

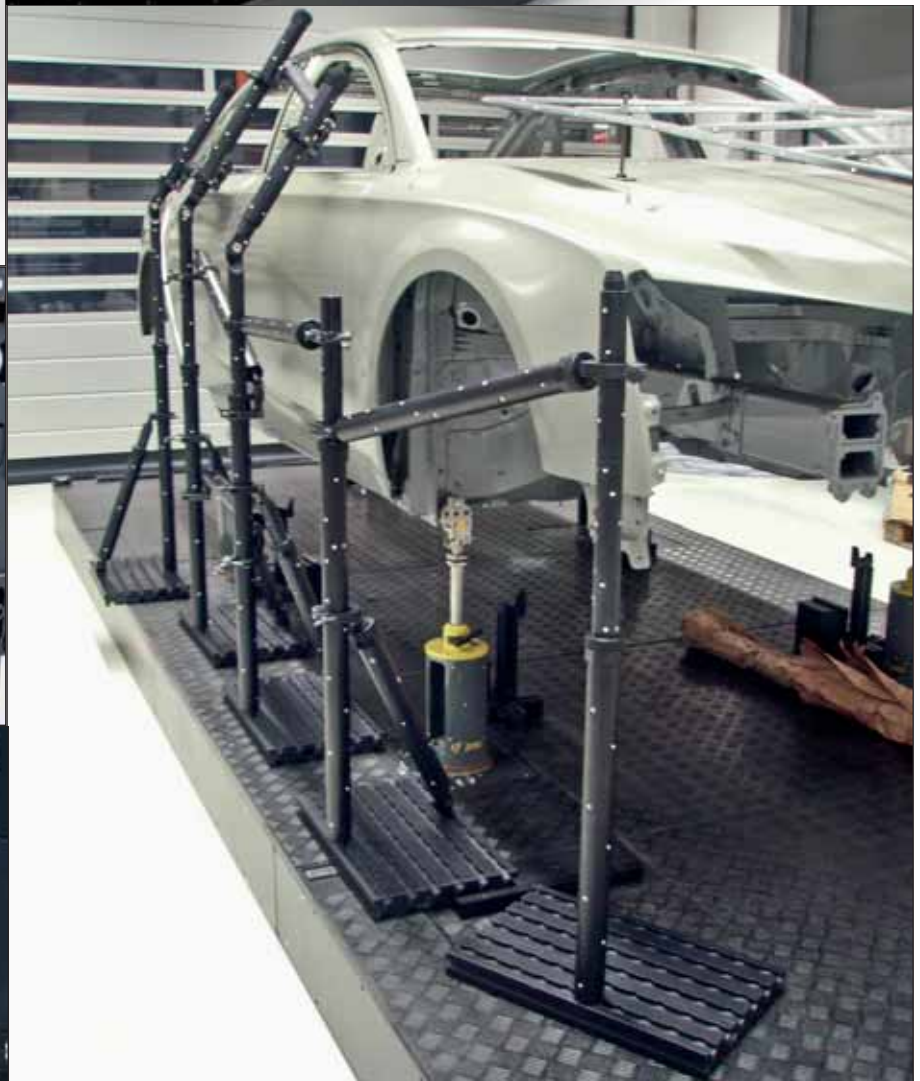
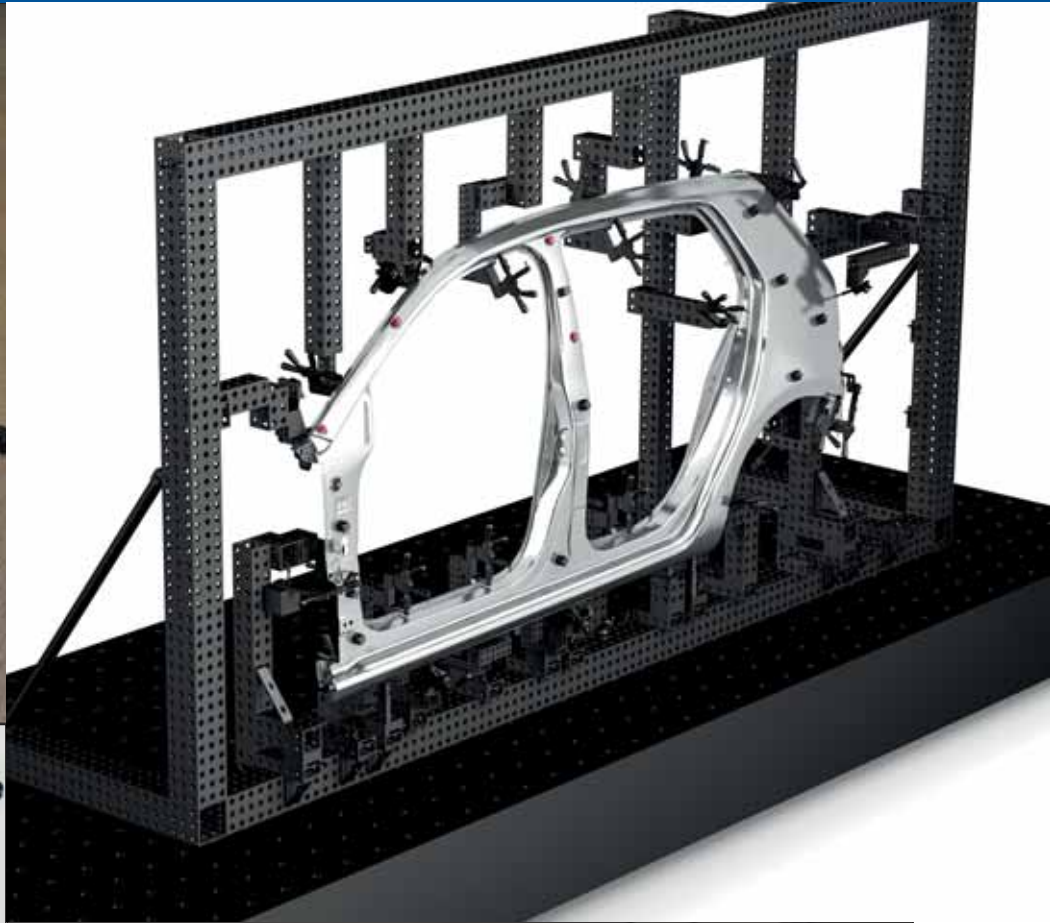
Measuring accessory  
for laser tracker

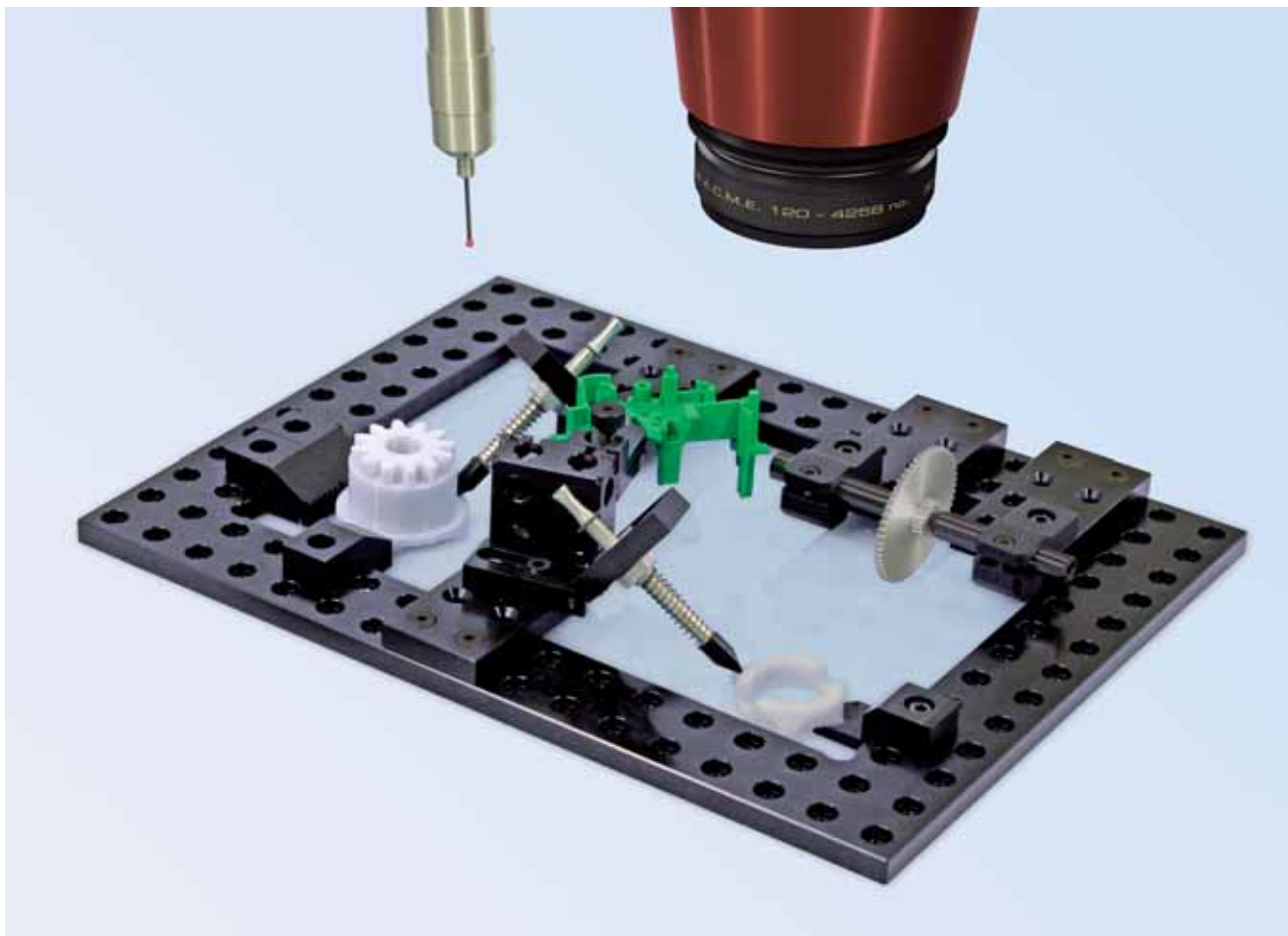




## FIXINSPECT+ALUFIX







## 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/mm<sup>2</sup>), 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.

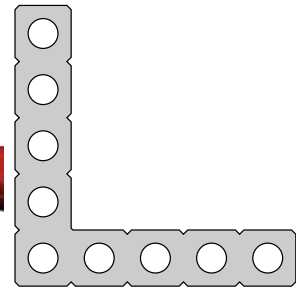
Megalu connections fulfill high demands on torsion and bending.

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

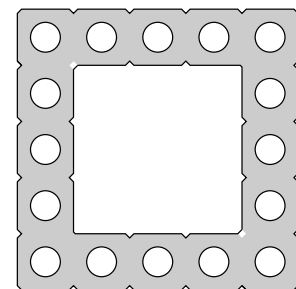
Megalu is intended as a dedicated solution so fixture changes are not as easy or convenient as with other systems such as ALUFIX Classic.

Megalu is a simple yet accurate and economical fixturing system.

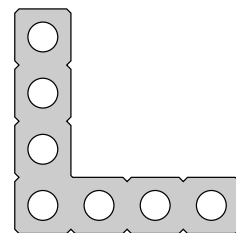
**This system  
 is no longer part of  
 our main range:  
 Only  
 available on  
 request!**



**MEGALU profile**  
L 80 x 80 mm

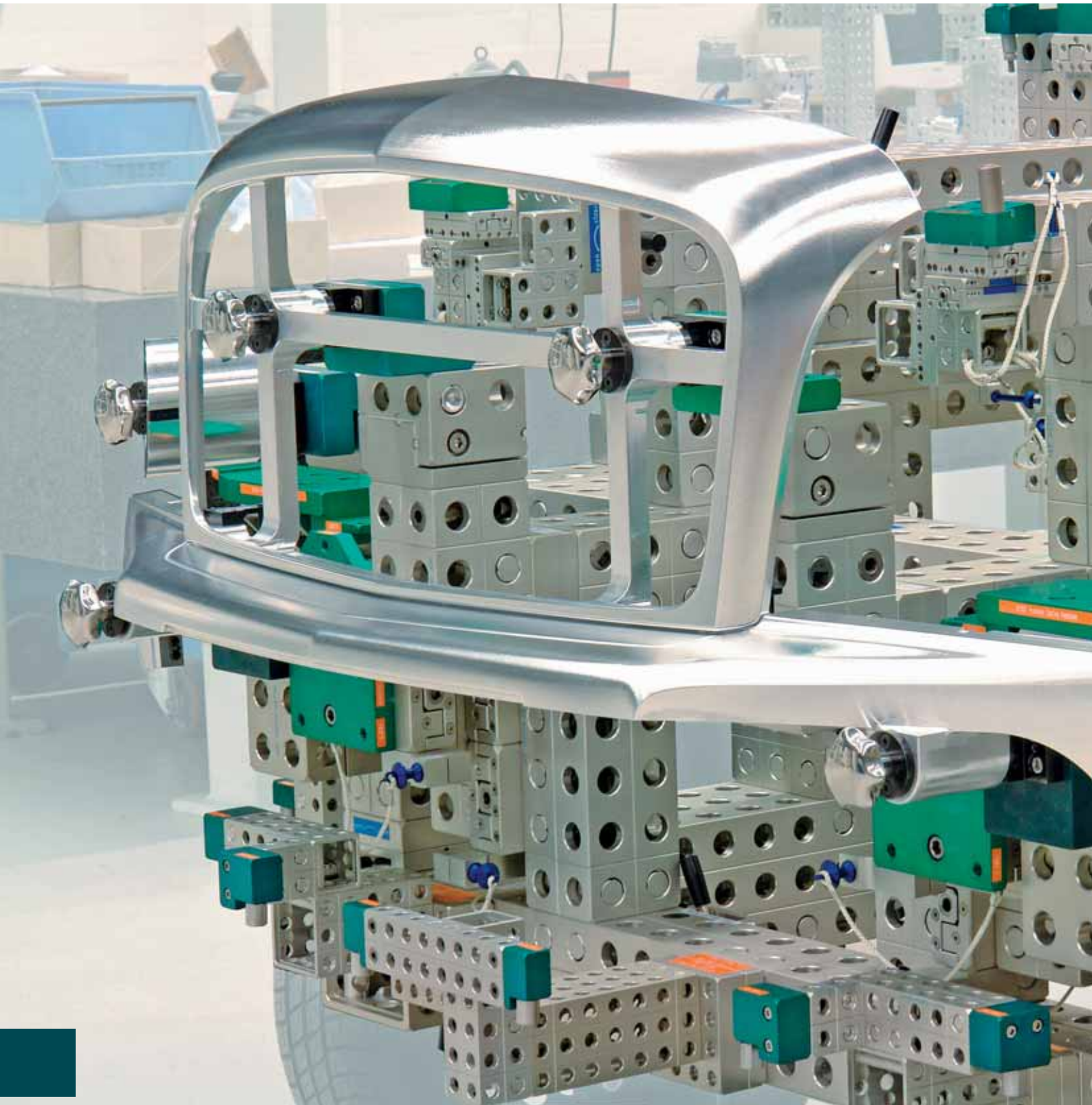


**MEGALU profile**  
□ 80 x 80 mm

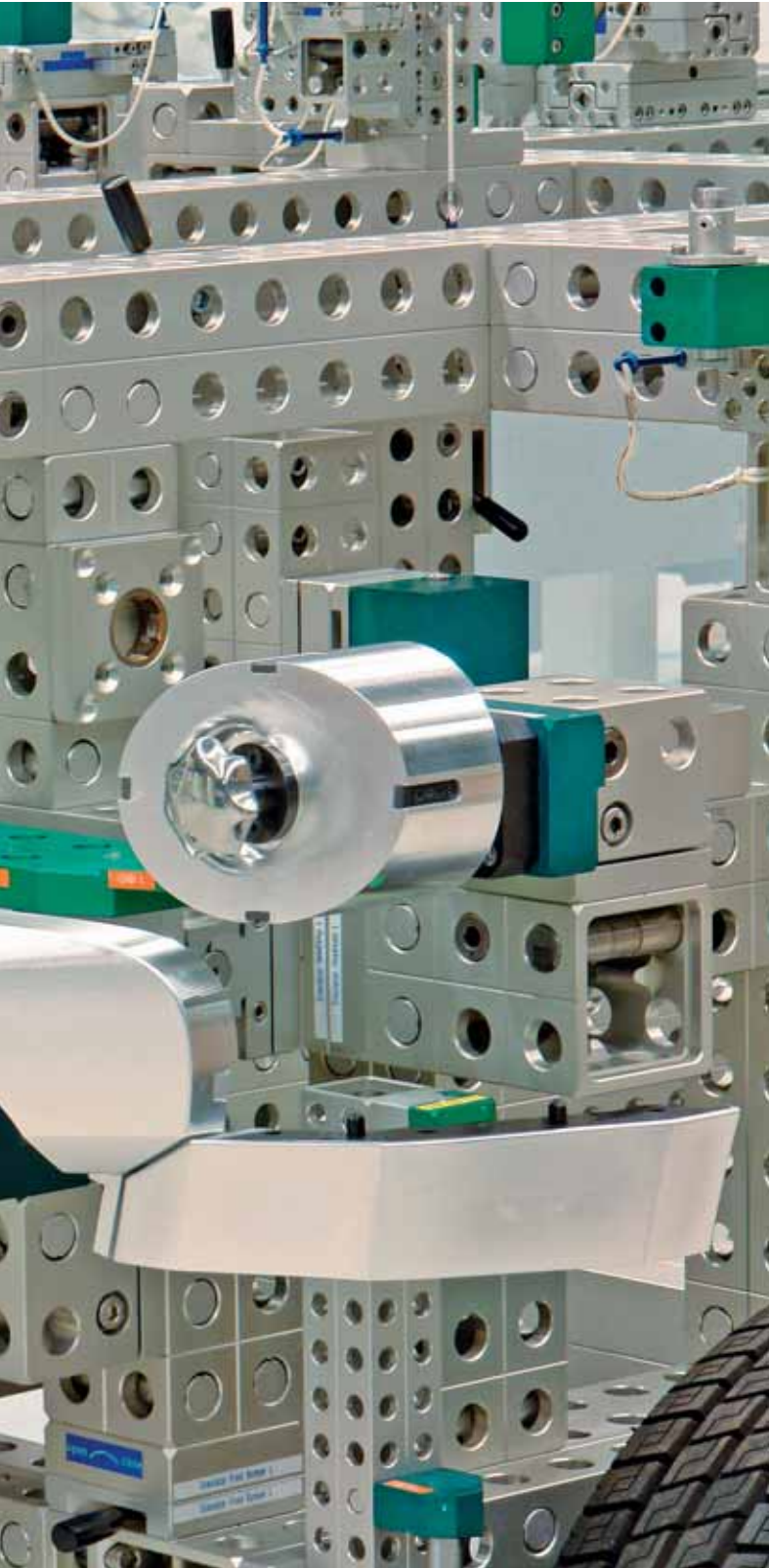


**MEGALU profile**  
L 64 x 64 mm





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

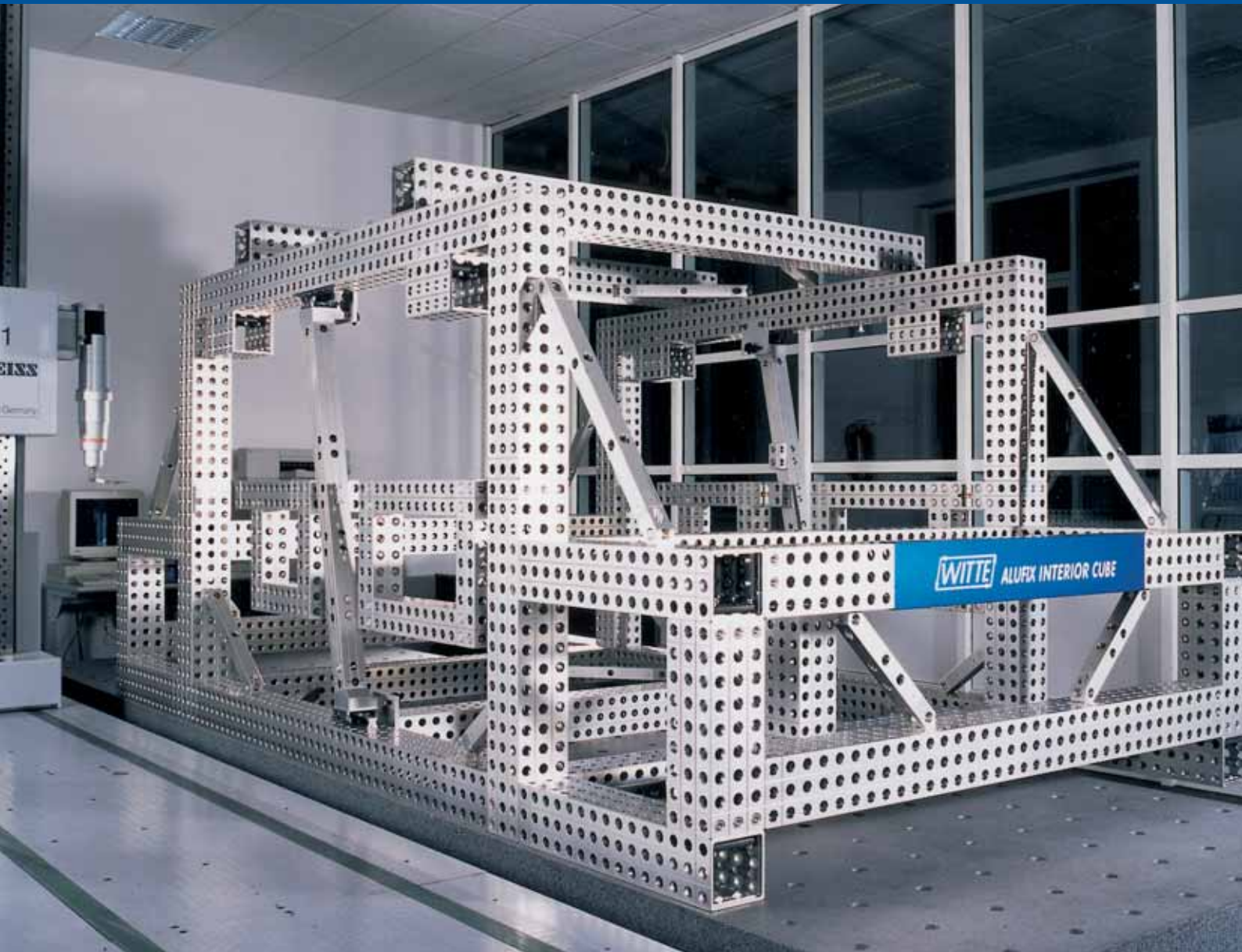
Alufix basic frames are an ideal base for cubing elements because of their rigidity, accuracy and modularity. Cubing base frames for front or rear ends, doors or complete cubings. Because of its reusability and modularity Alufix is pre-destined as a platform for inner cubings, area sections or complete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





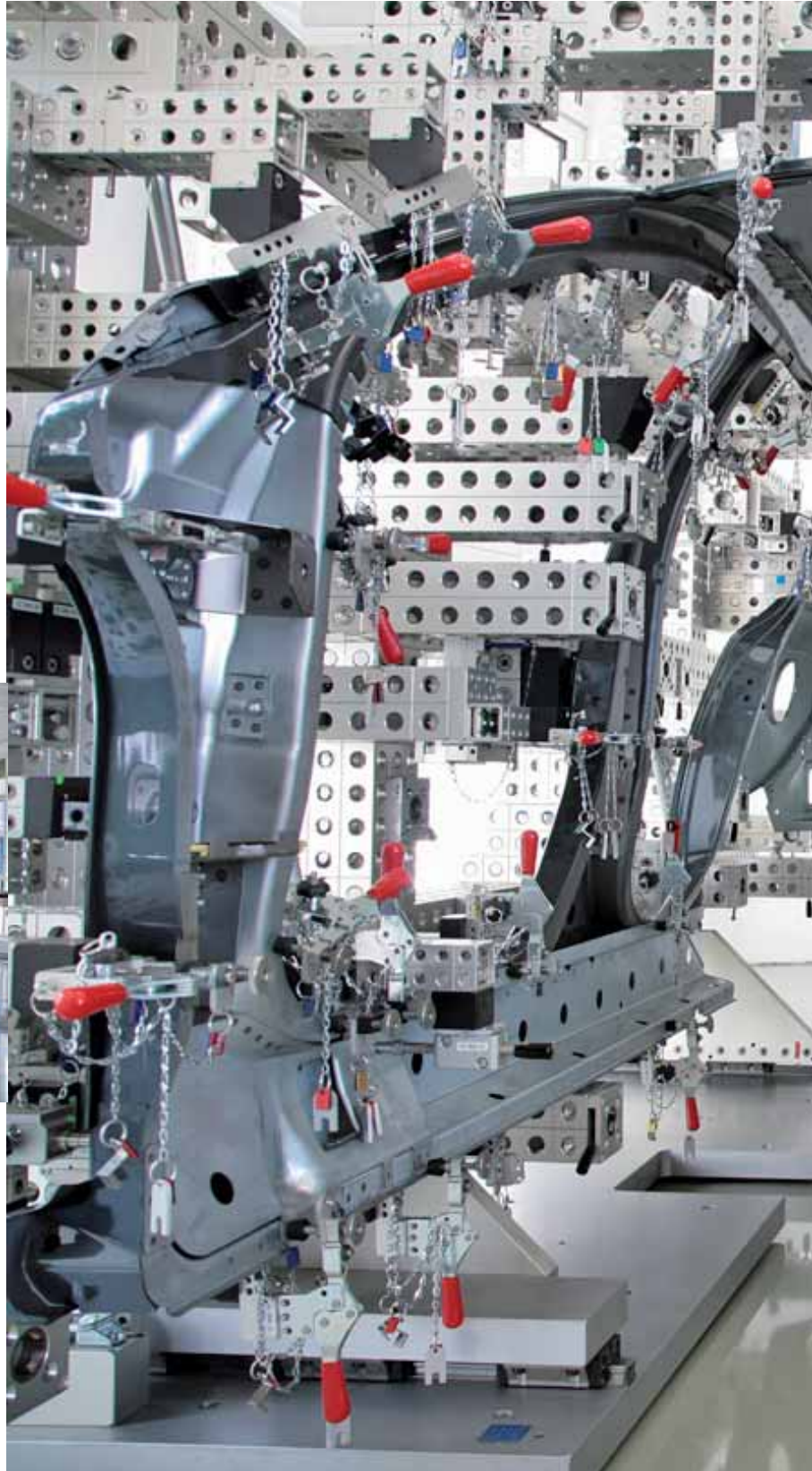
### Inner meisterbock

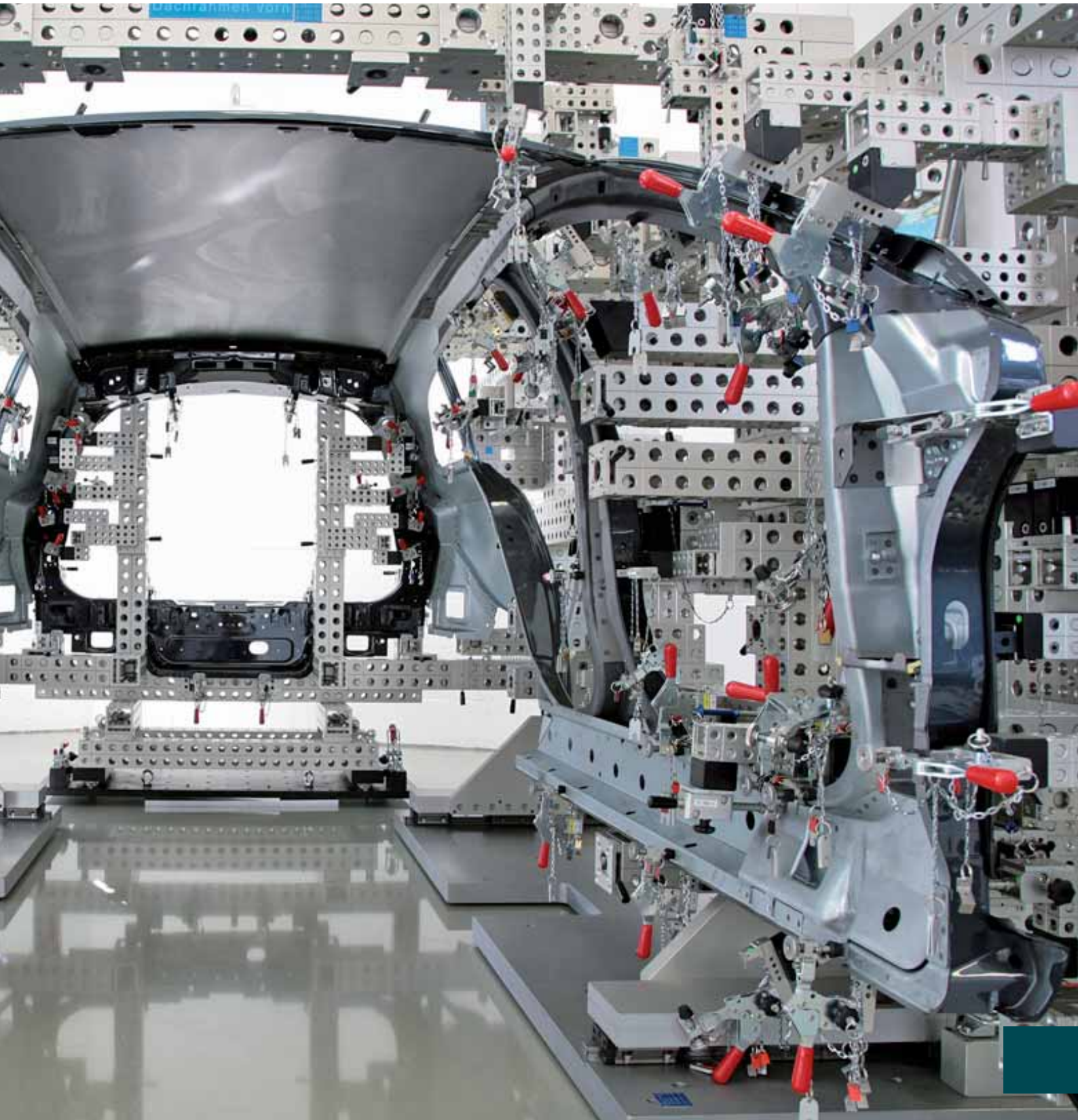
with movable support strut  
for B-pillar enabling use for 2  
and 4 door models.

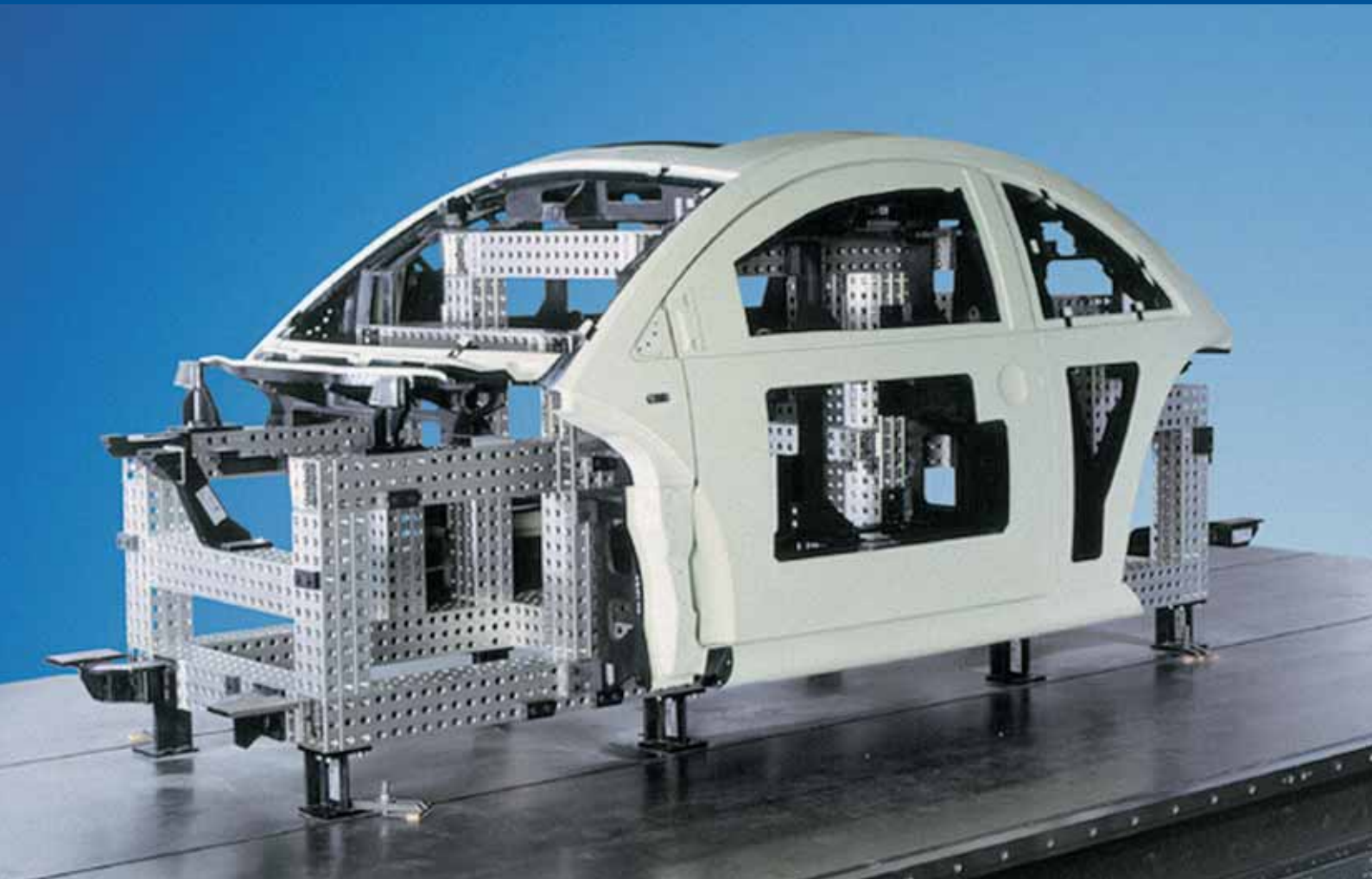


## Fuegemeisterbock (match metal fixture)

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.





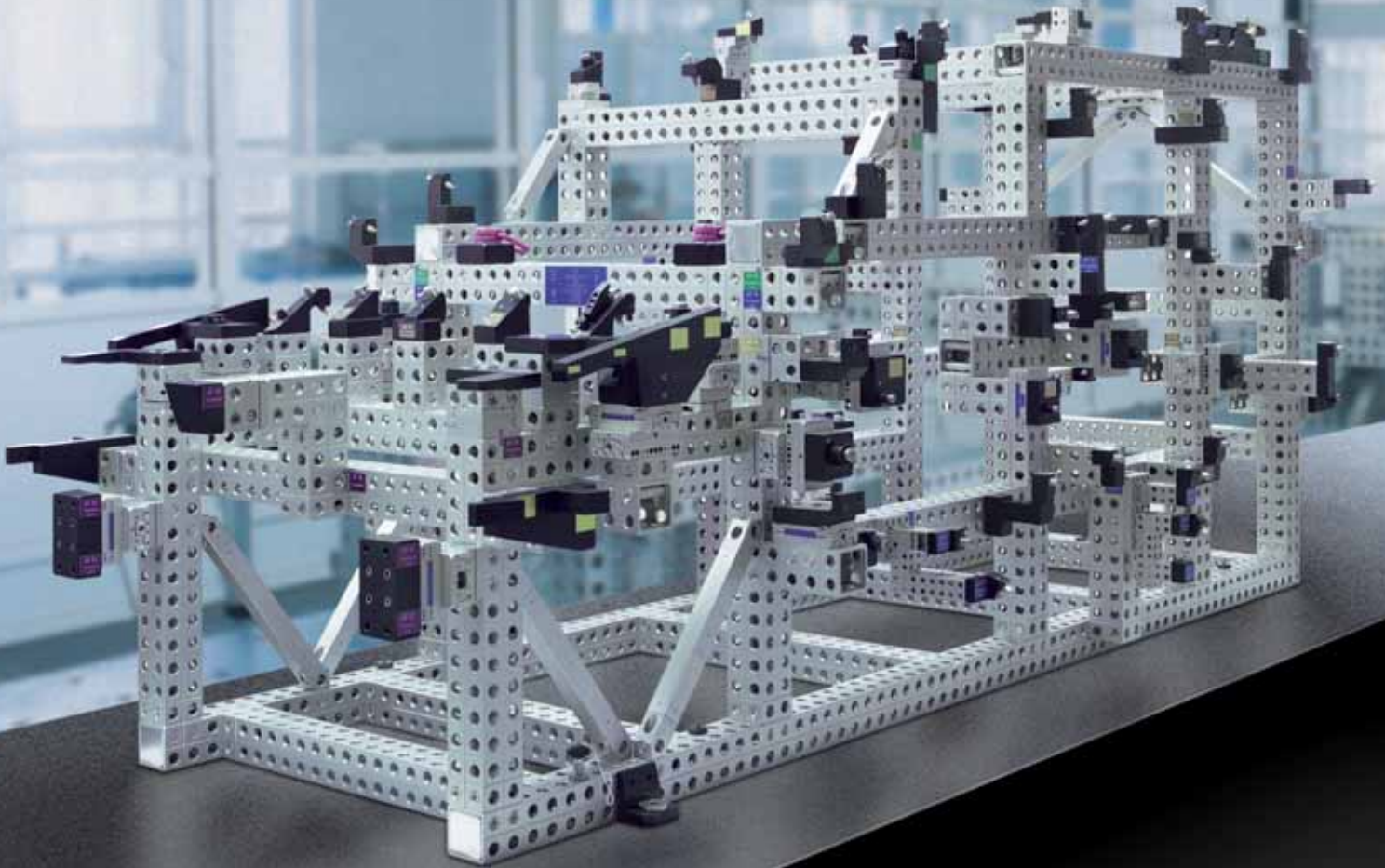


## Cubings

Top:  
Outer cubing frame  
showing some  
parts mounted

Right:  
Inner cubing frame  
showing some  
parts mounted



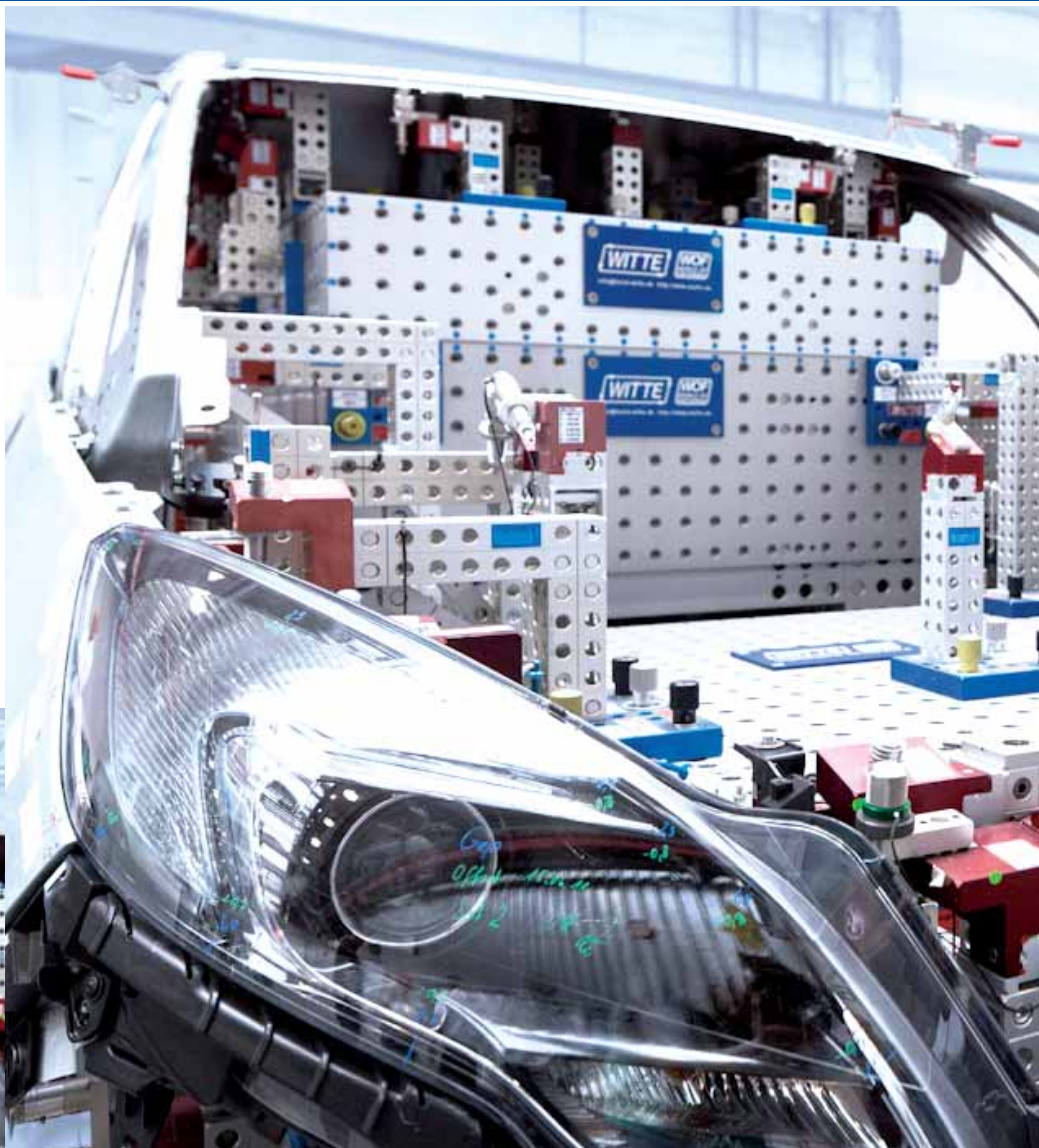
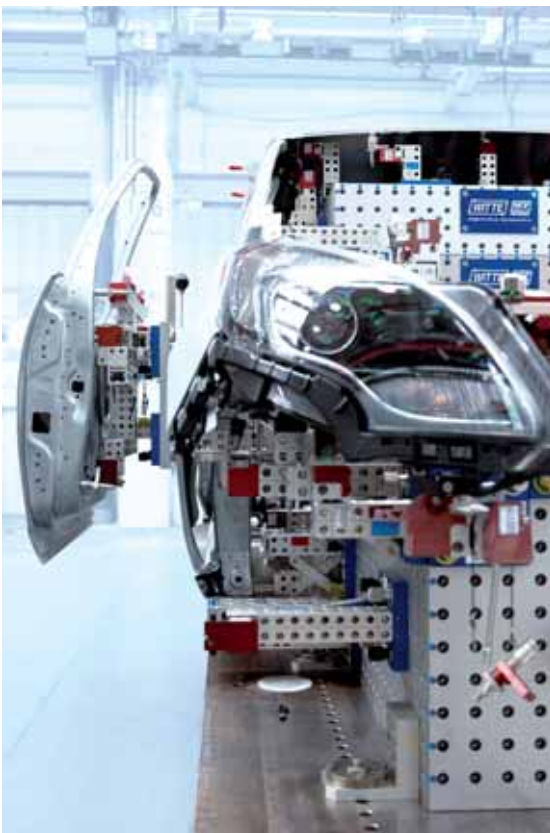


## Outer meisterbock

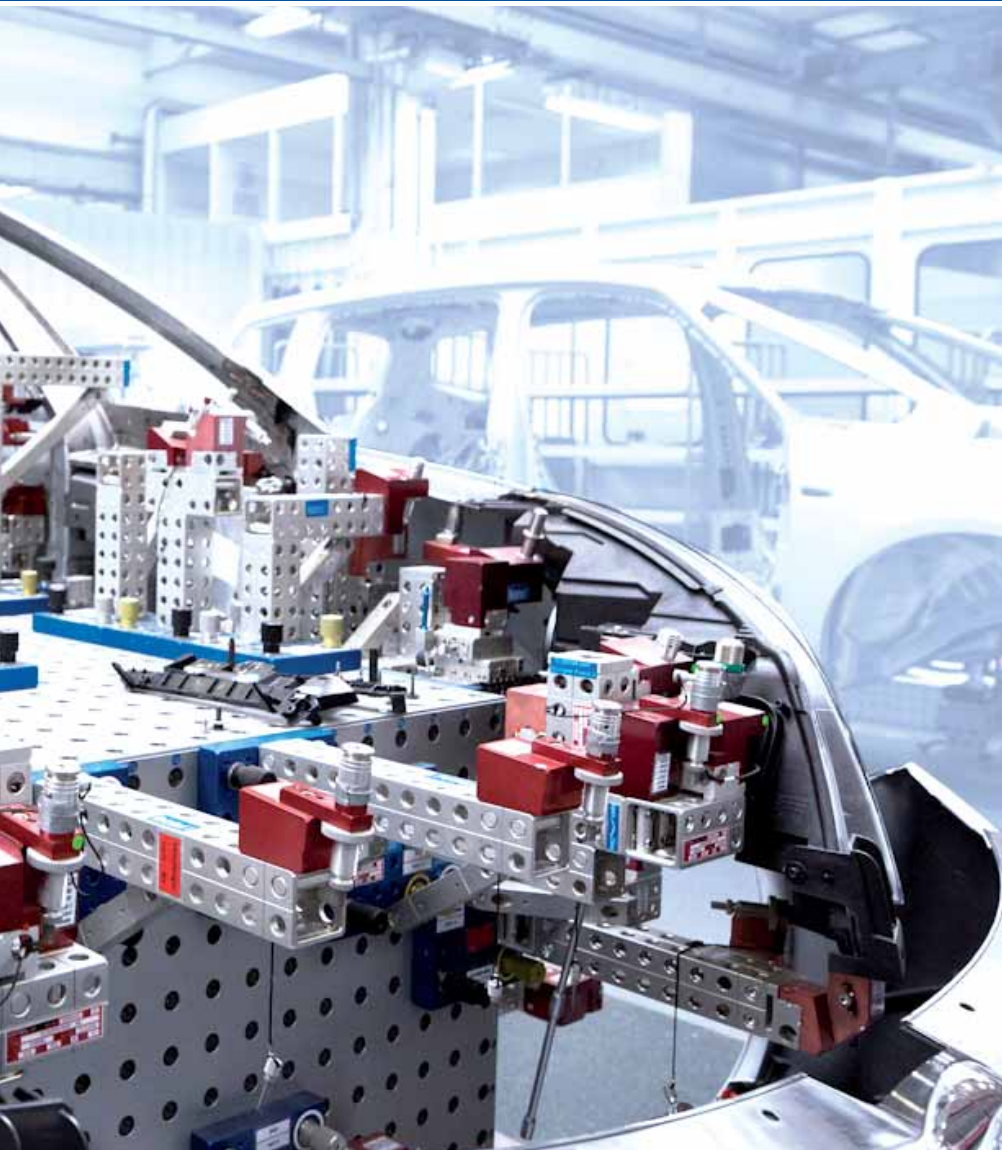
showing black specially designed and  
manufactured contact surfaces

## FXB-Cubing

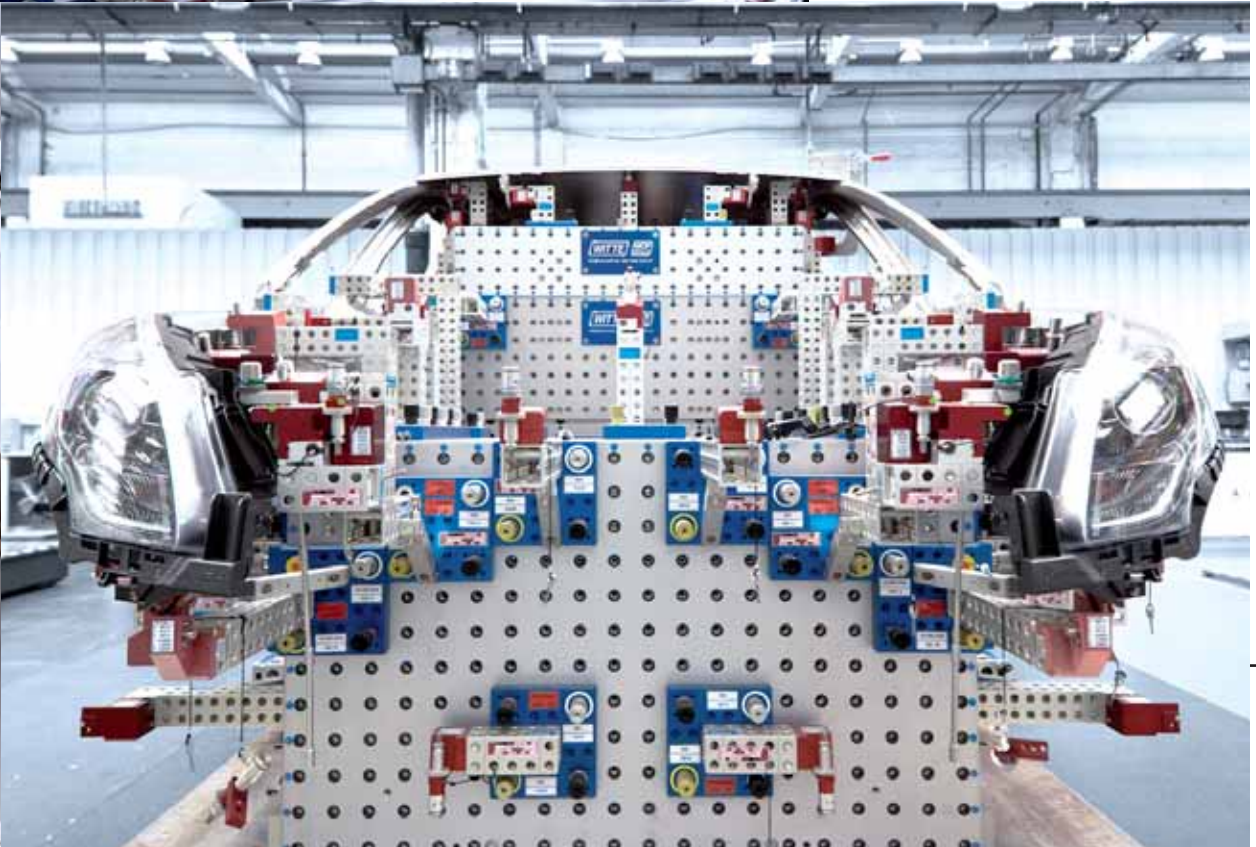
Witte Fixbase cubes configured for mounting of automotive parts



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



Cube prepared with various contact points and clamp combinations



3 Jaw Keyless Chuck 88  
 3D Shim block 60, 61  
 6 Jaw Keyless Chuck 89

## A

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 ALUFIX – DEA Five Adapter 193, 194  
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 Alufix Experte 186, 188  
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 Autonom navigation 170

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 Basic Set 3 Alufix 25 136  
 Basic Set 3 jaw Keyless chuck 91  
 Basic Set 4 Alufix 25 138  
 Basic Set 5 Alufix 25 140  
 Basic Set 6 Alufix 25 142  
 Basic Set 6 jaw Keyless chuck 91  
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 Basic Set 9 Alufix 25 146

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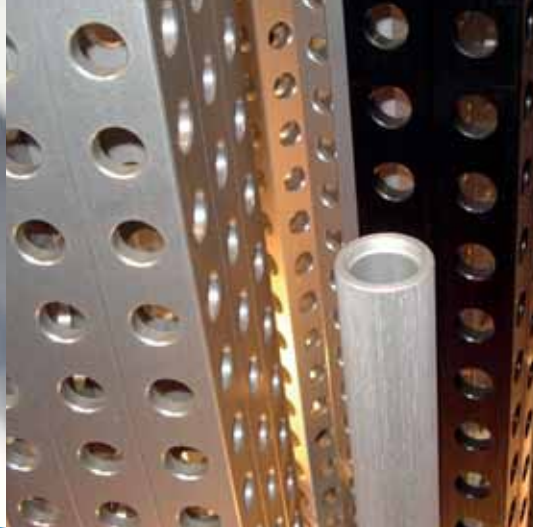
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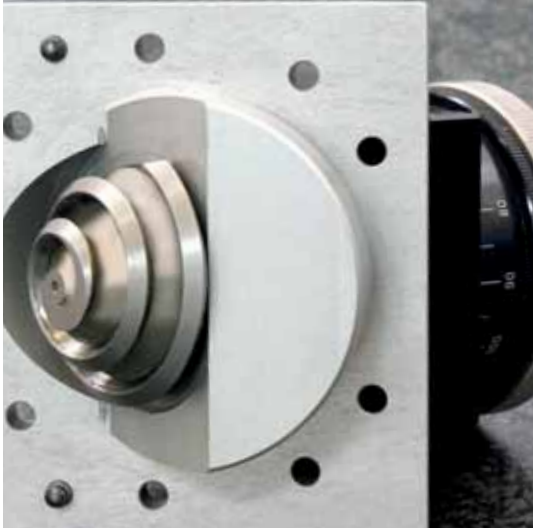
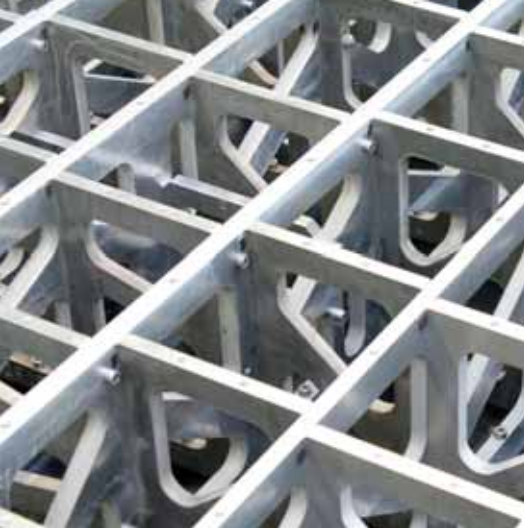
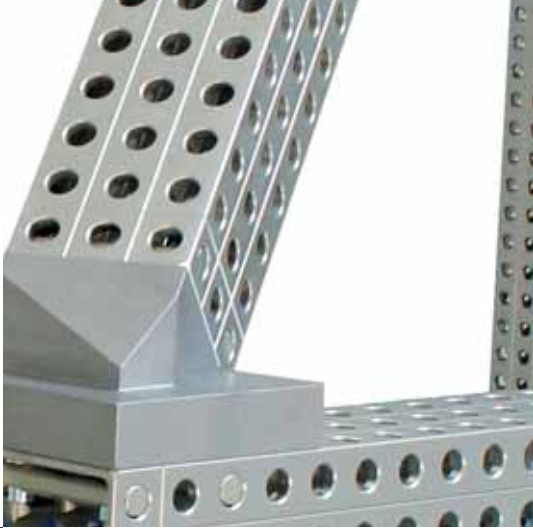
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#### **Germany**

##### **Witte Barskamp KG**

Horndorfer Weg 26-28  
D-21354 Bleckede  
Germany  
Tel.: +49 (0) 58 54/89-0  
Fax: +49 (0) 58 54/89-40

E-mail:  
info@witte-barskamp.de  
[www.witte-barskamp.de](http://www.witte-barskamp.de)

#### **Asia**

##### **Witte Far East Pte Ltd**

20 Boon Lay Way  
# 01 - 170  
Singapore 609967  
Singapore  
Tel.: +65-6248 5961  
Fax: +65-6898 4542

E-mail:  
info@witteasia.com  
[www.witteasia.com](http://www.witteasia.com)

#### **USA & Canada**

##### **Witte LP**

2220 Northmont Pkwy, Suite 250  
Duluth, Georgia 30096  
USA  
Phone: +1 (770) 982 99 32  
Fax: +1 (770) 982 99 28

E-mail:  
info@witteamerica.com  
[www.witteamerica.com](http://www.witteamerica.com)

#### **Mexico**

##### **Horst Witte de Mexico**

S.A. de C.V.  
Linco SC  
2 Sur 1706, Col. El Carmen  
Puebla, 72000  
Mexico  
Phone:  
+52 222893-8210

E-mail:  
info@witemexico.com  
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