

Download for this catalogue:

German

English



ALUFIX XS



Modular fixturing system for
optical measuring and checking instruments



Witte Barskamp: Fixed on precision

Founded in 1969 as a manufacturing partner for high-precision components in the aerospace industry, Witte Barskamp KG is today one of the leading international developers and manufacturers of modular fixturing, positioning and measuring devices as well as feeder systems. With the ALUFIX modular fixturing system and versatile vacuum clamping systems, Witte is considered the global market leader.

Subsidiaries in Singapore, Mexico, USA and Brazil as well as the vast professional representation partner network across the globe ensure access to Witte products and services worldwide. Almost all major companies in the automotive and aerospace

industries rely on products and application solutions from Witte. Additionally, the products and solutions find applications in a wide range of industries including, measuring, medical technology, as well as in all other industries in which dimensional quality monitoring and precision plays a decisive role.

In the past 50 years Witte has accumulated more than 250 patents, registered designs and wordmarks of which 70 are still current and active today. Many of them for ALUFIX – the market recognized brand for high precision, durable, modular fixturing.



NewXS Clamping System	2
■ Introduction	
NewXS 16 Basic components	8
■ Frames, Bars, Lugs	
NewXS 16 Stop and alignment components	13
■ Centers, Stops	
Clamping components	16
■ Clamps, Top sections, Connectors	
NewXS 16	26
■ Basic Set	
Alufix 16 Classic components	28
■ Compatible with NewXS 16	
Alufix 16 Classic connection elements	38
■ Compatible with NewXS 16	
NewXS MiniVac	42
■ Mini vacuum clamping system	
NewXS 10	44
Index	45

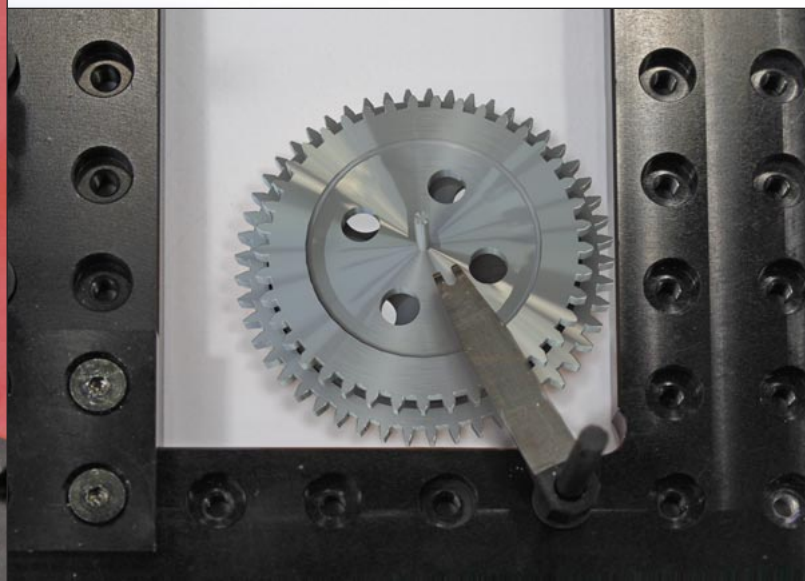
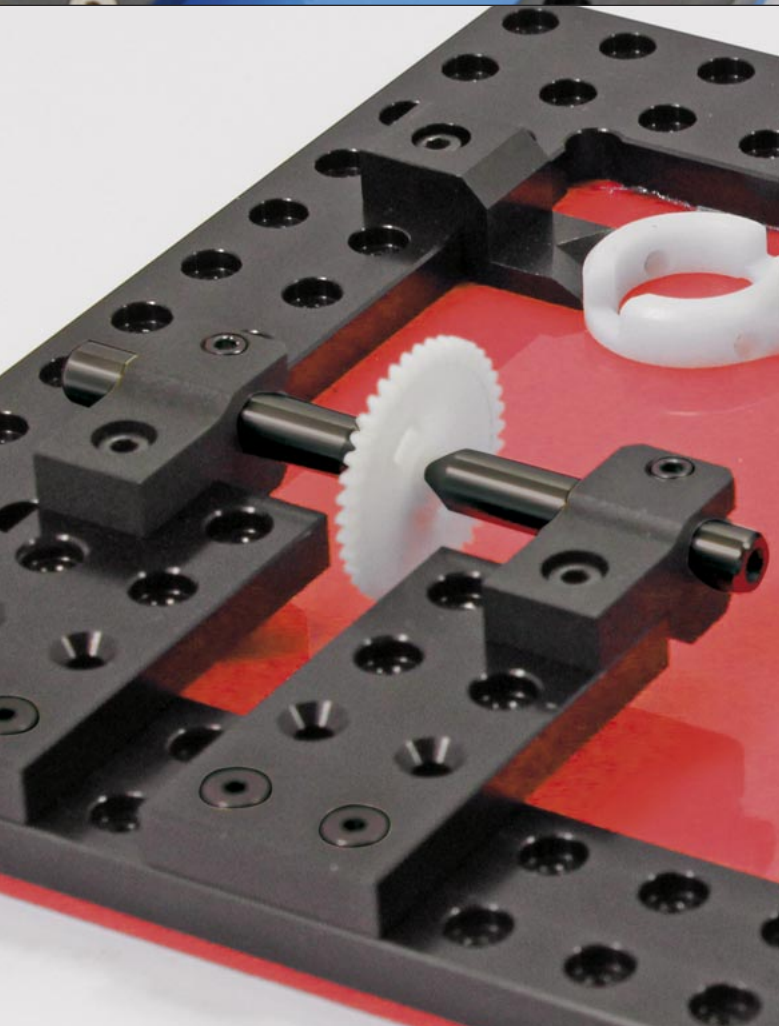
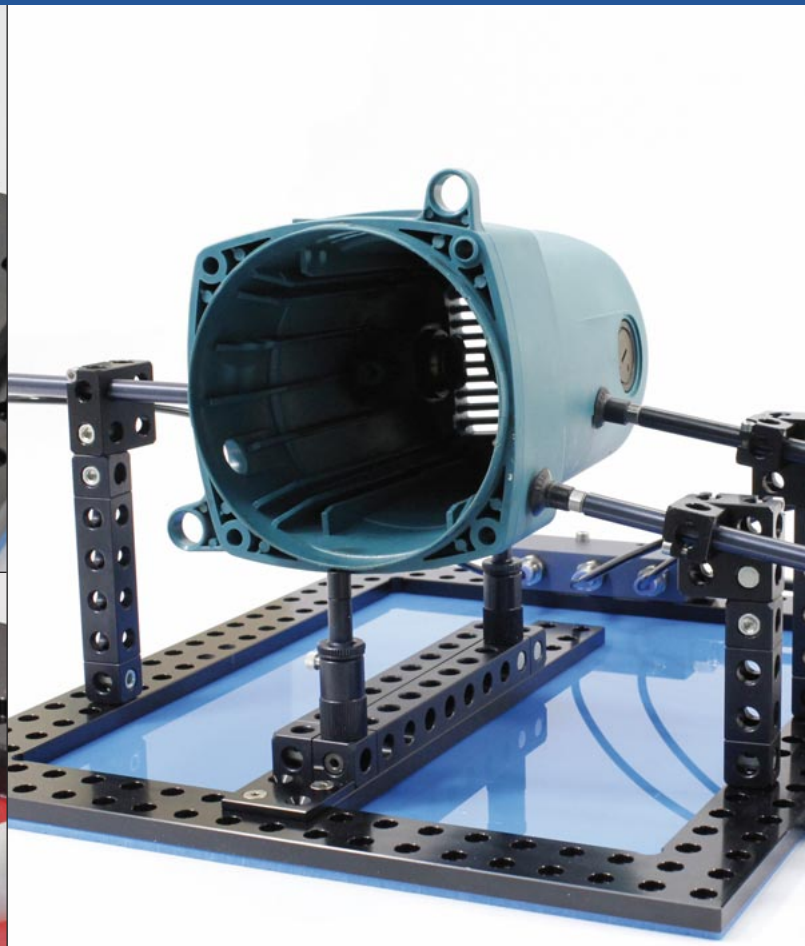
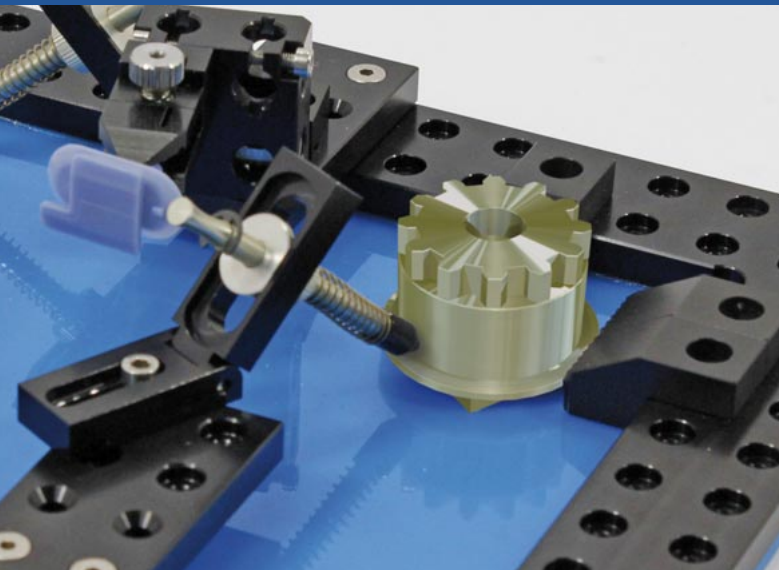
Information:

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

- We reserve the right to make technical changes.
- Where differences between photos and parts lists exist, the parts lists are decisive.
- Due to fluctuations of copper content in aluminum - alloy colour deviations may occur during anodizing.

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

The indicated standards, similar technical regulations as well as technical details, descriptions and illustrations are valid at time of printing. Our general trading conditions are valid. Our quotations are decisive.



NewXS

Modular fixturing system for optical measuring and checking instruments

NewXS is the consequential continuation of the Witte modular philosophy established worldwide. All elements follow the well-known ALUFIX modular system principle and are compatible.

Suitable for profile projectors and digital image processing:

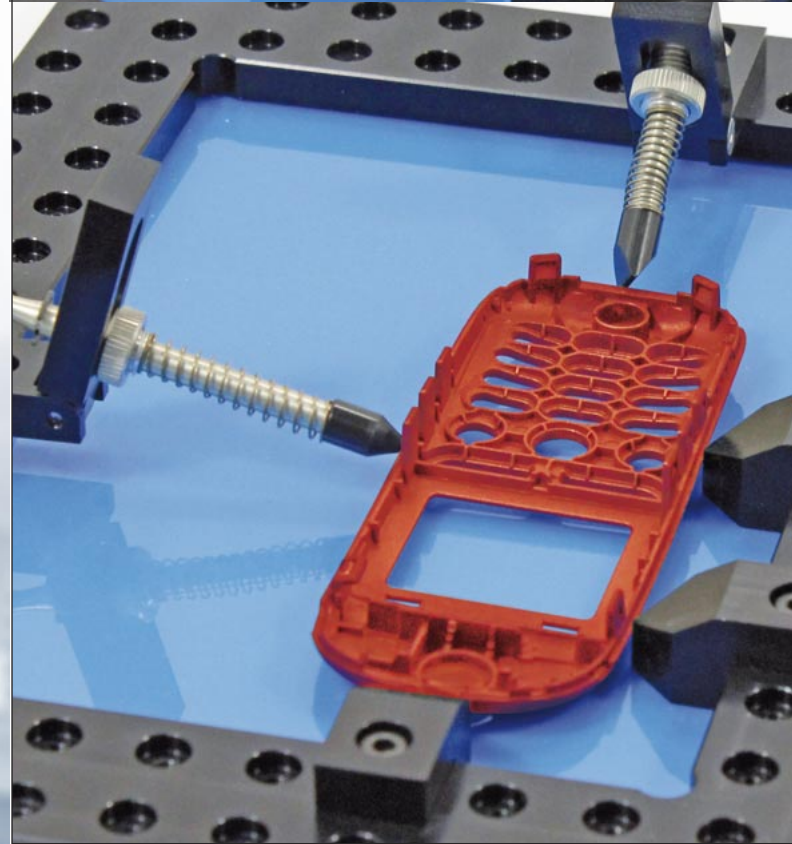
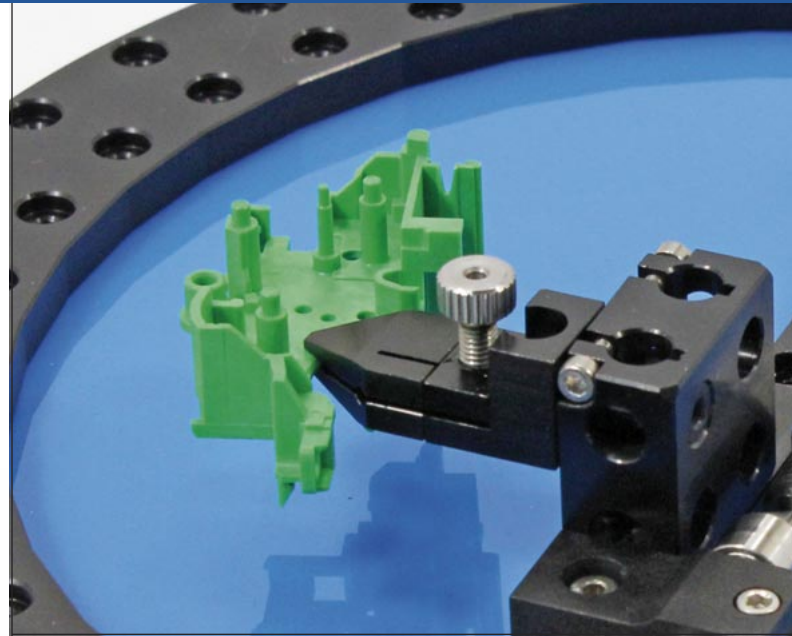
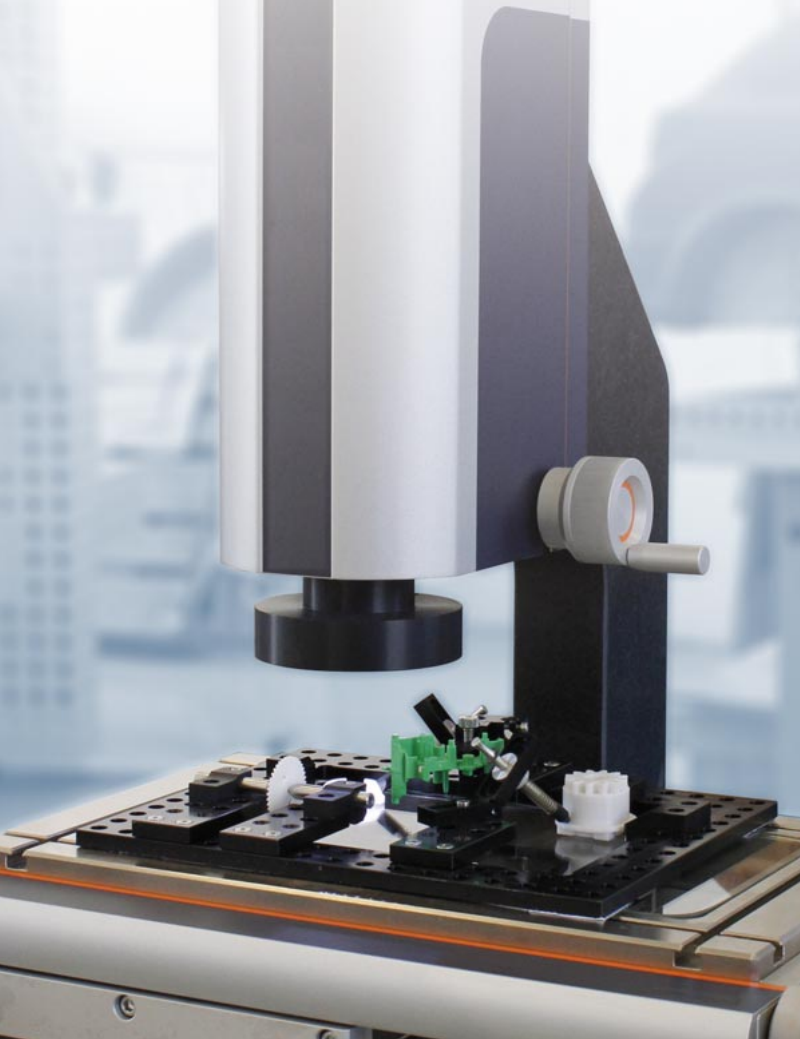
Two system sizes:

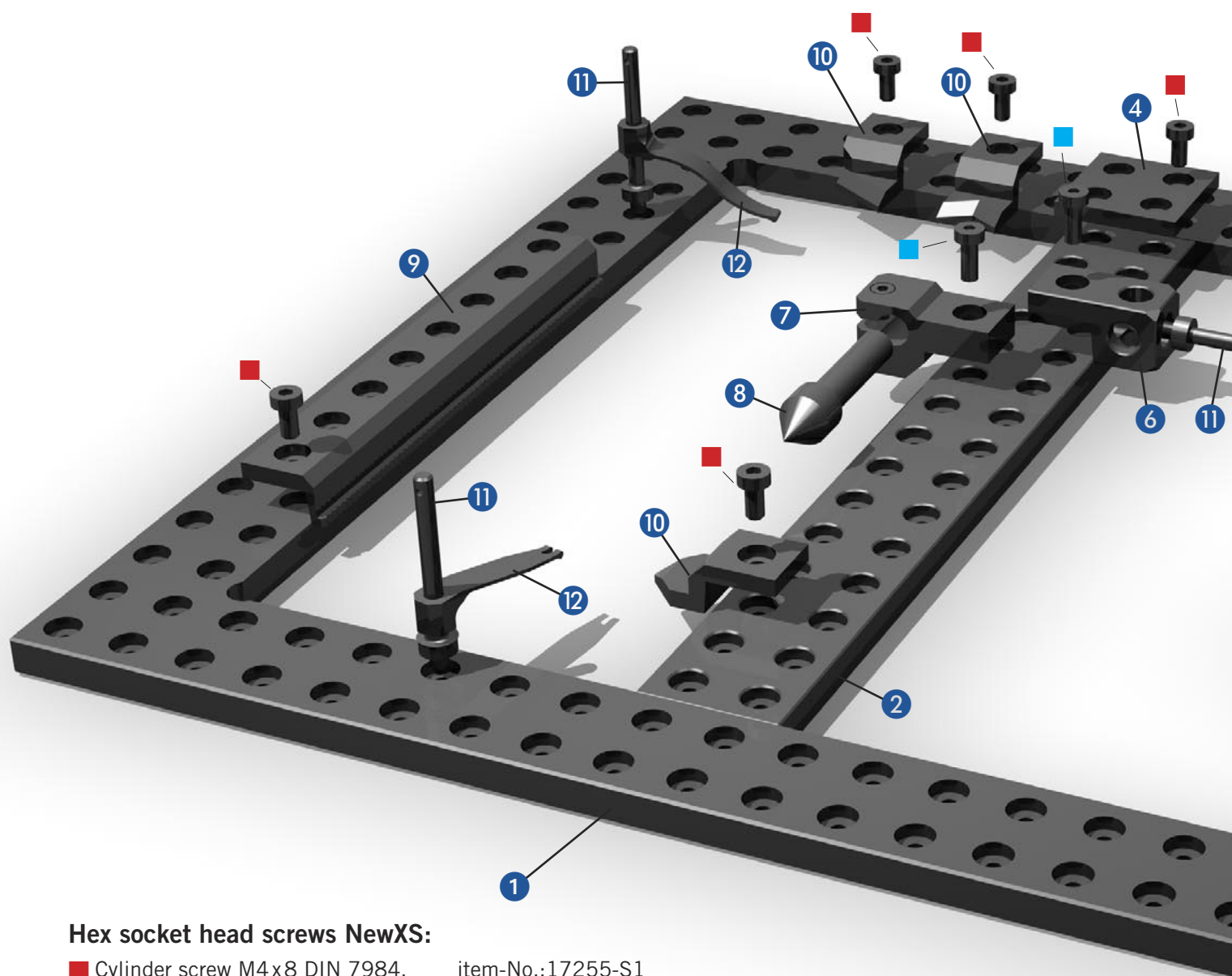
XS 16 and XS 10 for small parts

According to modular principle both upgradeable with a variety of Alufix 16 and including a new mini vacuum solution.

Material: High-tensile aluminium alloy, anodized (black or natural)

Fast, accurate set up and adaptable to new tasks.

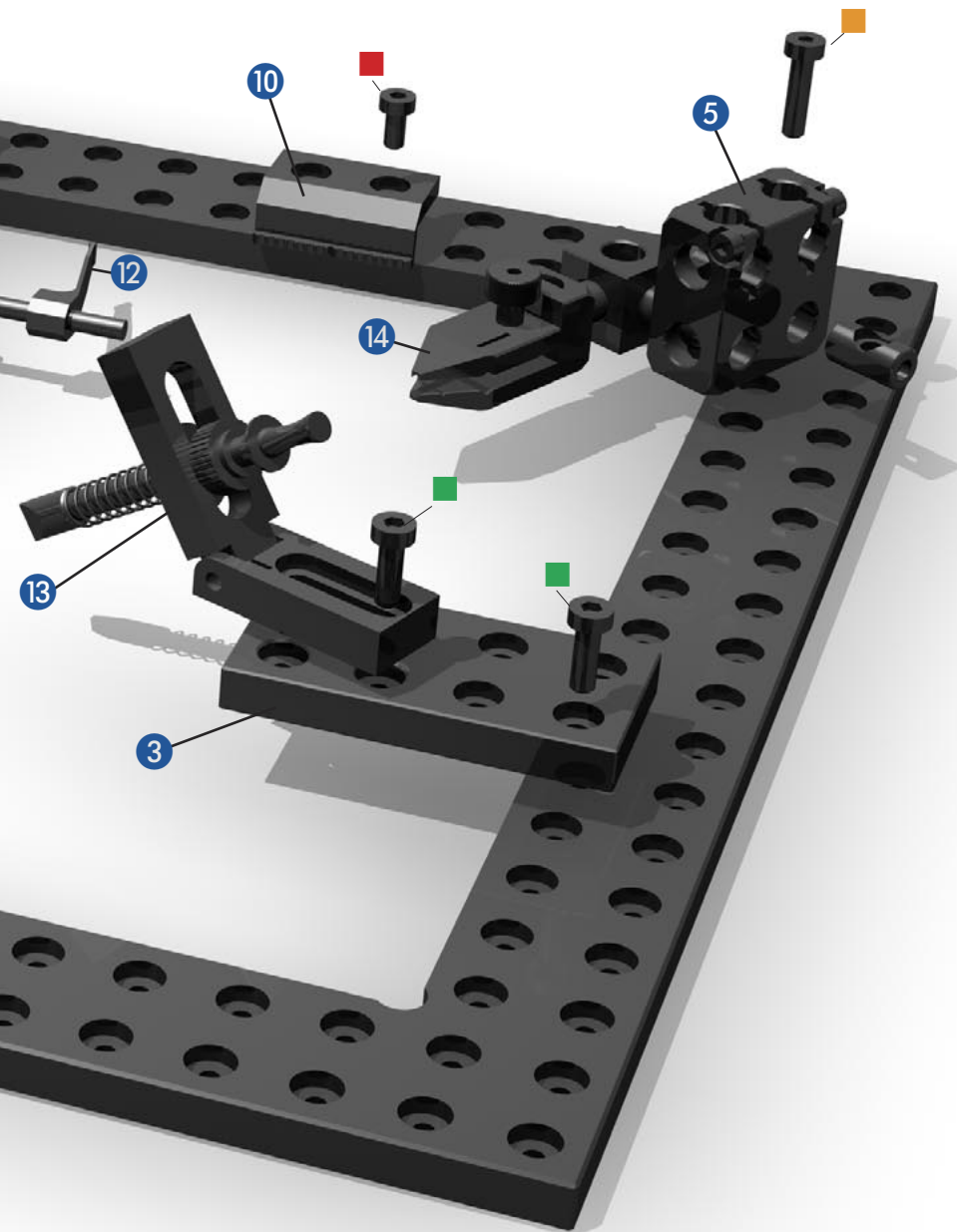




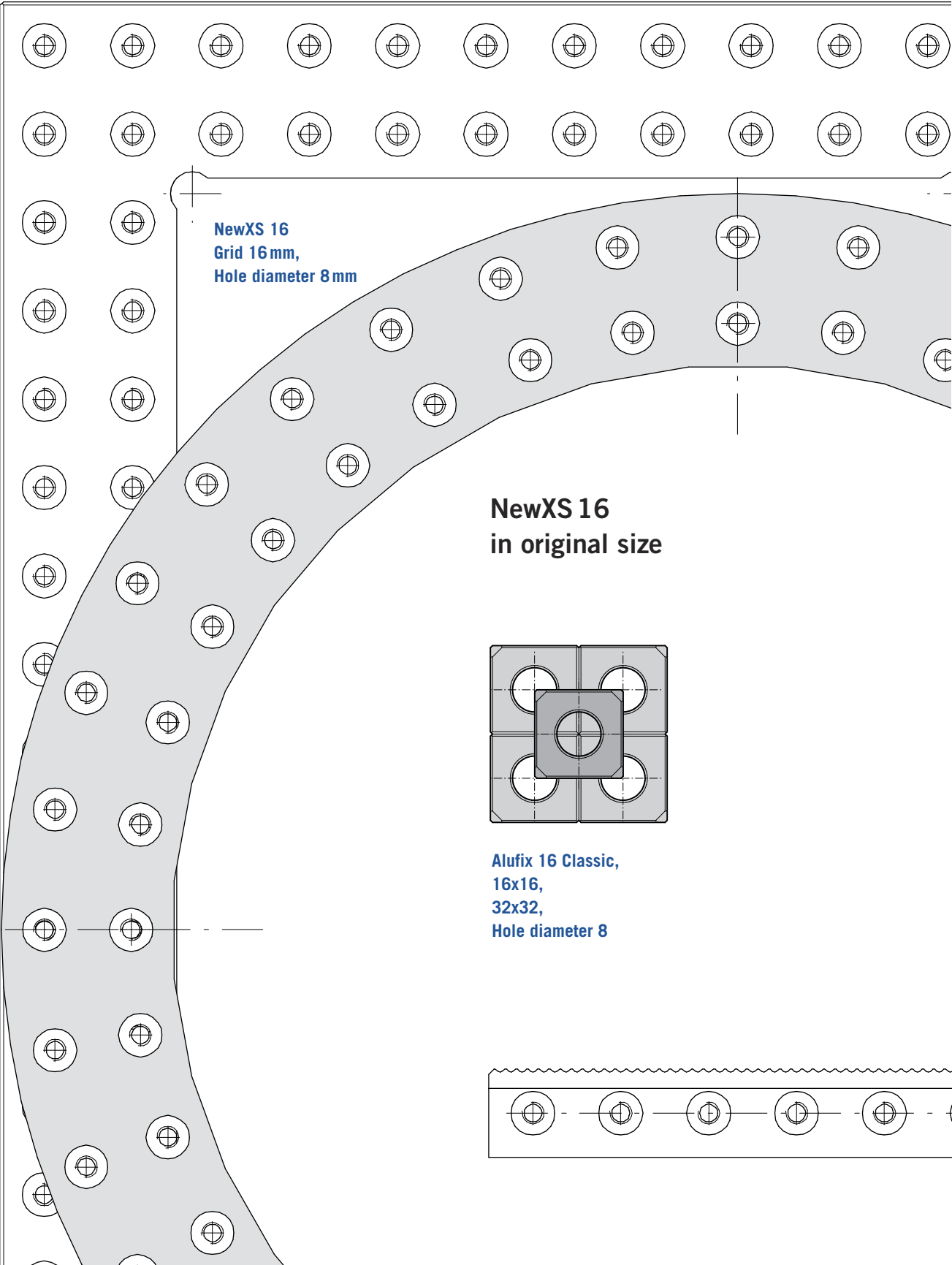
Hex socket head screws NewXS:

- | | |
|--|-------------------|
| ■ Cylinder screw M4x8 DIN 7984, | item-No.:17255-S1 |
| ■ Cylinder screw M4x10 DIN 7984, | item-No.:11546-S1 |
| ■ Cylinder screw M4x12 DIN 7984, | item-No.:16141-S1 |
| ■ Cylinder screw M4x16 DIN 7984, | item-No.:16359-S1 |

Components NewXS Spannsystem

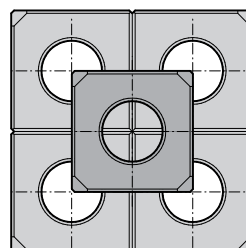


- 1 Grid frame
- 2 Bars
- 3 Adapter plate
- 4 Connecting lug
- 5 Clampholder
- 6 Basic bar
- 7 Tailstock
- 8 Center
- 9 Stop bar
- 10 Stop
- 11 Hold-down column
- 12 Hold-down spring
- 13 Push rod
- 14 Parallel clamp

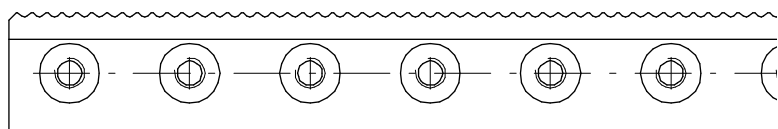


NewXS 16
Grid 16 mm,
Hole diameter 8 mm

NewXS 16
in original size



Alufix 16 Classic,
16x16,
32x32,
Hole diameter 8

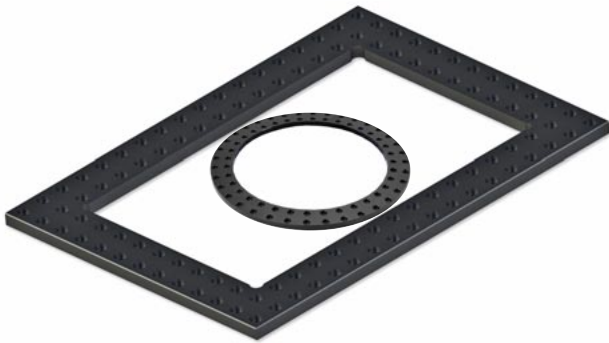


Components NewXS Fixturing system

NewXS is not only suitable for two dimensional reflected or transmitted light projectors but also for tactile measuring machines and three-dimensional measuring.

2D: Parts normally lie on glass plate of measuring unit, are positioned on the inside of a NewXS frame and clamped against frame or against glass.

3D: The frame serves as a basis for mounting complex contact and support surfaces so that parts can be measured from all sides.



Basic components of NewXS:

Closed or open grid frames in one piece, round, square or rectangular. User defined L-shaped, U-shaped or closed grid frames made of bars.

Special frames adapted to machine surface.

Grid bars for dividing frames into several measuring areas for clamping more than one part at a time, or for positioning adjusting or clamping elements. Adapter plates, stud bars, clamp holders, telescopic columns.

Contact and support components:

Serrated bars, V-pieces, fixed and rotating centers, ball points and tips.



Clamping components:

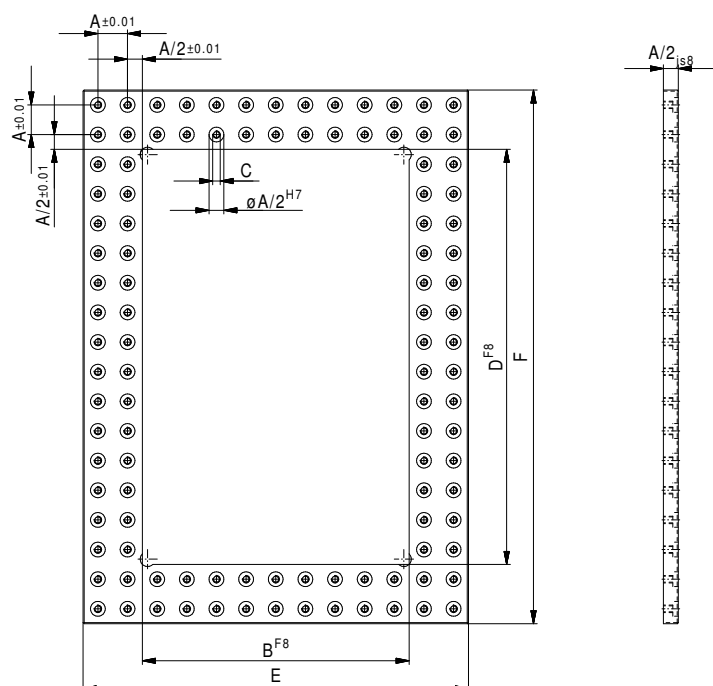
Hold-down springs, clamps, parallel clamps, horizontal toggle clamps, vacuum suckers, magnetic supports



Alufix 16 supplements:

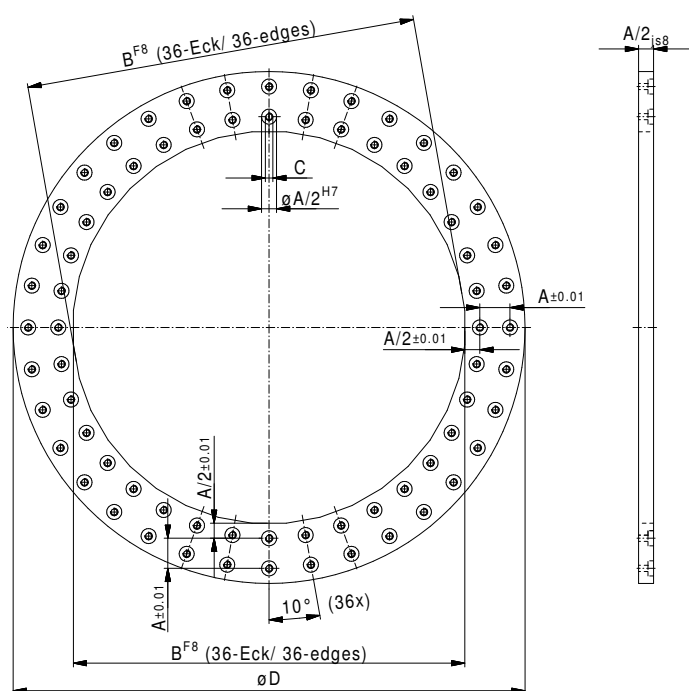
All Alufix 16 Classic components can be combined with NewXS 16 elements.





Grid frame NewXS 16

Nr.	A	B	C	D	E	F	G
326736-1	16	128	M4	192	192	256	481
324202-1	16	144	M4	208	208	272	521
326737-1	16	224	M4	272	288	336	702
326738-1	16	240	M4	288	304	352	742



Grid ring NewXS 16

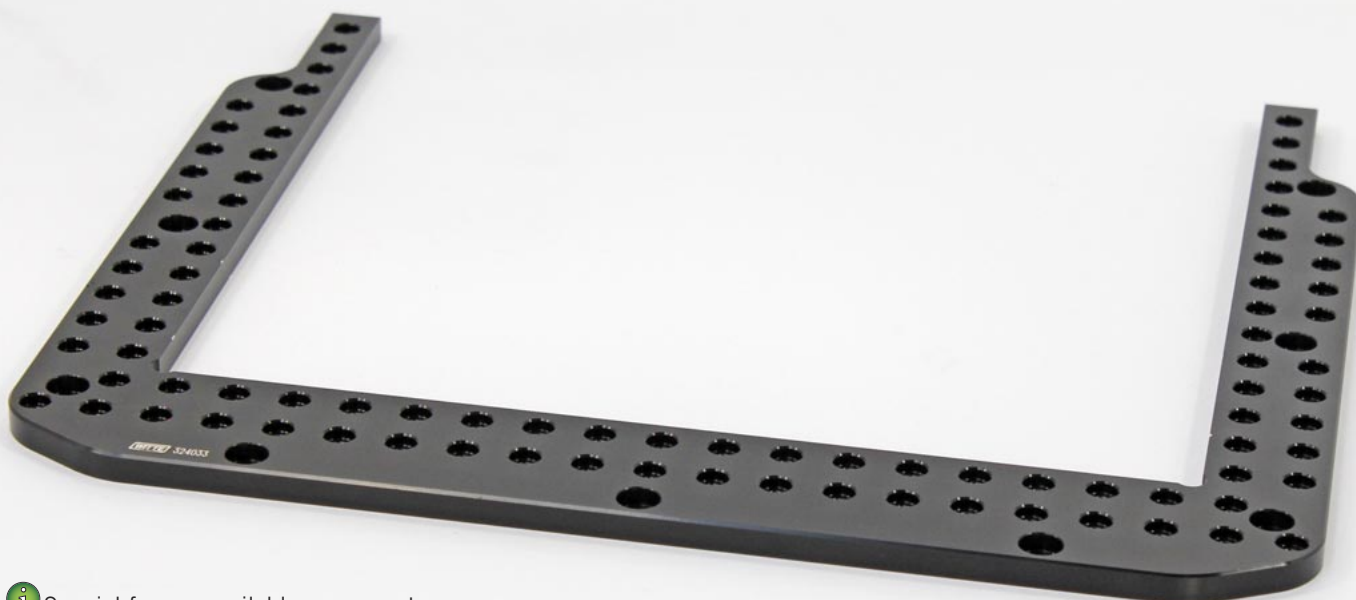
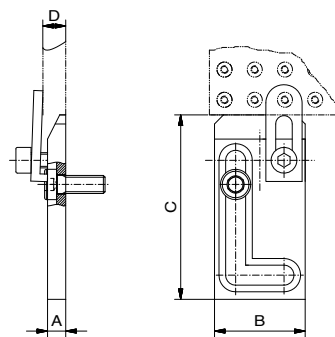
Nr.	A	B	C	D	E
326734-1	16	208	M 4	272	484



Stop with clamp NewXS 16

For grid plates XS

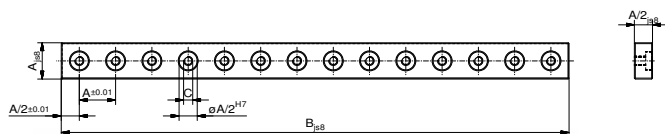
Nr.	A	B	C	D	g
95470-1	6	30	61	8	43
281447-1	6	30	175	8	108



 Special frames available on request



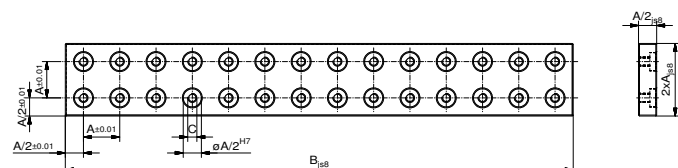
 **NewXS** components can be anodized in different colours. Black (with suffix -1) is standard. Anodized natural is also available. Other colours on request.



Bar NewXS 16

One row

Nr.	A	B	C	g
327749-1	16	48	M4	15
327750-1	16	64	M4	20
327726-1	16	80	M4	25
327727-1	16	96	M4	30
327728-1	16	112	M4	35
327729-1	16	128	M4	40
327730-1	16	144	M4	45
326725-1	16	160	M4	50
327741-1	16	176	M4	55
326726-1	16	192	M4	60
326727-1	16	208	M4	65
326728-1	16	224	M4	70
326729-1	16	240	M4	75
327785-1	16	256	M4	80



Bar NewXS 16

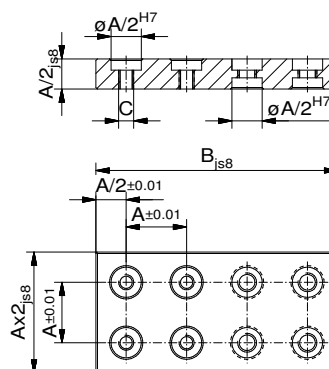
Two row

Nr.	A	B	C	g
327751-1	16	48	M4	42
327752-1	16	64	M4	56
327722-1	16	80	M4	70
327723-1	16	96	M4	84
327724-1	16	112	M4	98
326858-1	16	128	M4	112
327725-1	16	144	M4	126
326719-1	16	160	M4	140
327718-1	16	176	M4	154
326720-1	16	192	M4	168
326721-1	16	208	M4	182
326722-1	16	224	M4	196
326723-1	16	240	M4	210
326724-1	16	256	M4	224

Adapter plate NewXS 16

Two row

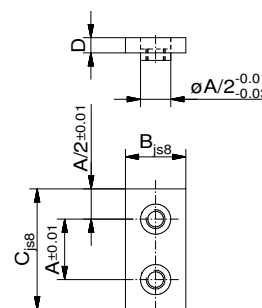
Nr.	A	B	C	g
324205-1	16	64	M4	39



Connecting lug NewXS 16

One row

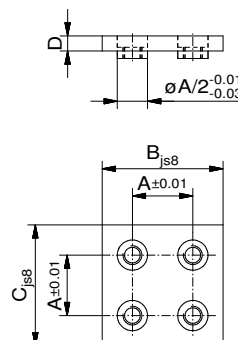
Nr.	A	B	C	D	g
326731-1	16	16	32	4	5
326732-1	16	16	64	4	10



Connecting lug NewXS 16

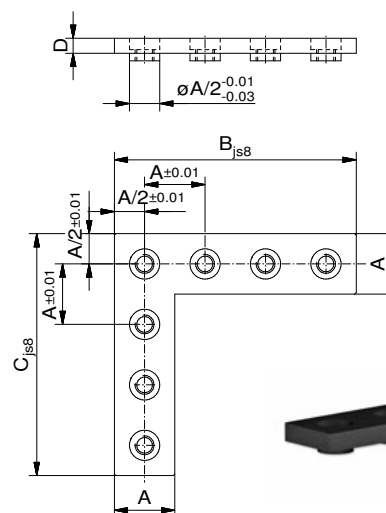
Two row

Nr.	A	B	C	D	g
324203-1	16	32	32	4	10

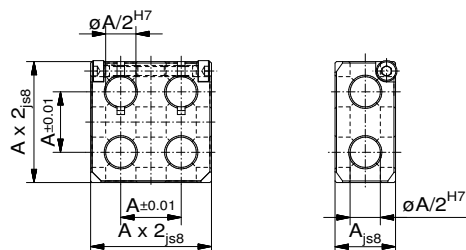


Angle connecting lug NewXS 16

Nr.	A	B	C	D	g
326796-1	16	48	48	4	13
326795-1	16	64	64	4	18



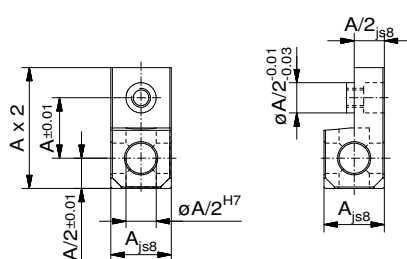
i NewXS components can be anodized in different colours. Black (with suffix -1) is standard. Anodized natural is also available. Other colours on request.



Clampholder NewXS 16

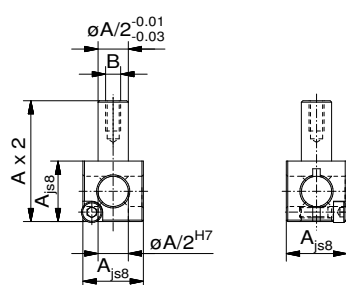
Two row

Nr.	A			
285042-1	16			80



Basic bar NewXS 16

Nr.	A			
324209-1	16			11



Clampholder NewXS 16

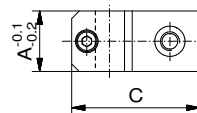
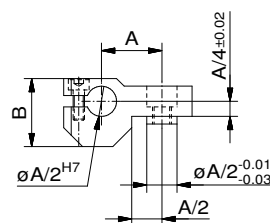
with stud

Nr.	A	B		
285043-1	16	M4		8



Tailstock NewXS 16

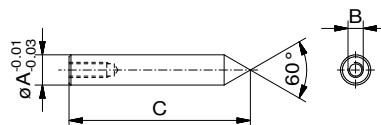
Nr.	A	B	C	g
285044-1	16	18	34	14



Center NewXS 16

fixed

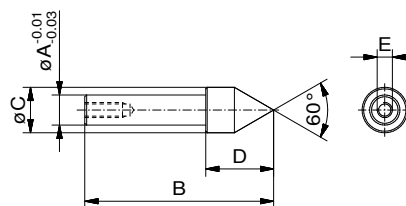
Nr.	A	B	C	g
326748-1	8	M4	48	6



Center NewXS 16

rotating

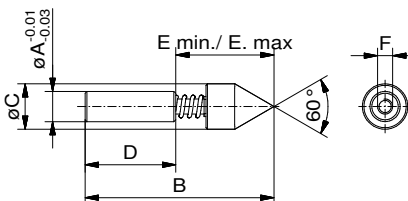
Nr.	A	B	C	D	E	g
284583-1	8	50	12	18	M4	13



Center NewXS 16

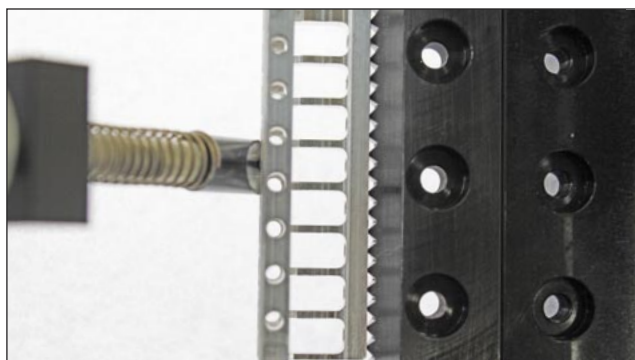
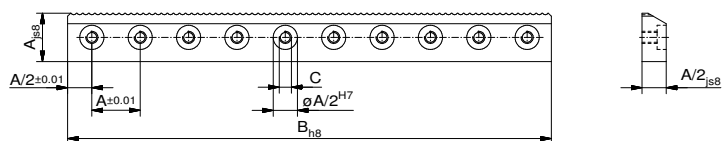
rotating, spring loaded

Nr.	A	B	C	D	E min.	E max.	F	g
284584-1	8	50	12	24	21	26	M4	18



NewXS components can be anodized in different colours. Black (with suffix -1) is standard. Anodized natural is also available. Other colours on request.

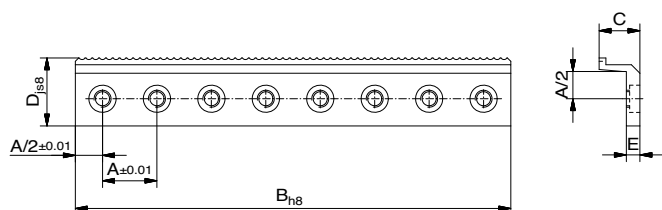




Serrated bar NewXS 16

One row

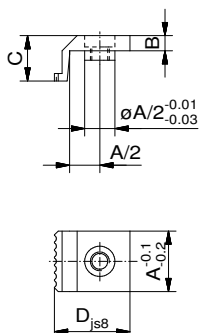
Nr.	A	B	C	
326753-1	16	160	M 4	45
326754-1	16	192	M 4	54
326755-1	16	208	M 4	59
326756-1	16	224	M 4	63
326757-1	16	240	M 4	68



Stop bar NewXS 16

One row, serrated

Nr.	A	B	C	D	E	
326790-1	16	128	12	20	4	26
326791-1	16	144	12	20	4	29
326792-1	16	160	12	20	4	32
326793-1	16	224	12	20	4	45
326794-1	16	240	12	20	4	49



Stop NewXS 16

serrated

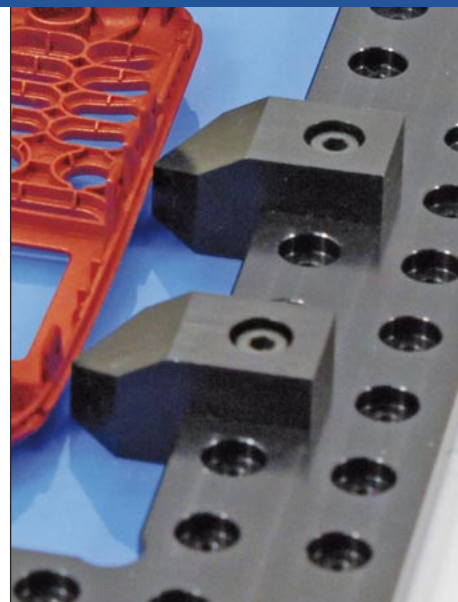
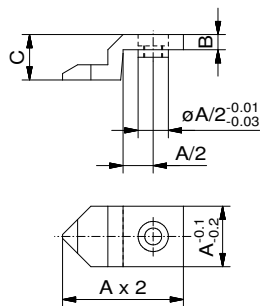
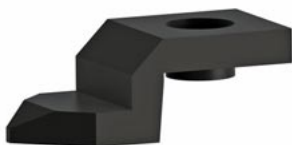
Nr.	A	B	C	D	
324206-1	16	4	12	20	6



Stop NewXS 16

pointed

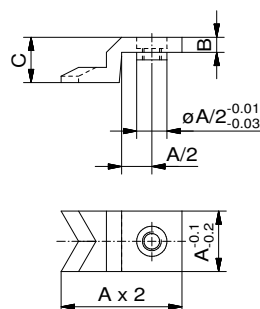
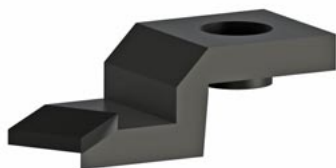
Nr.	A	B	C	g
326741-1	16	4	12	9



Stop NewXS 16

Prismatic

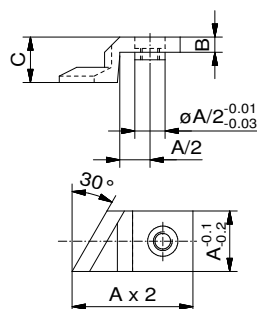
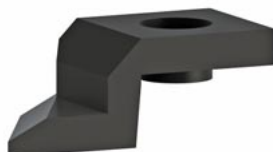
Nr.	A	B	C	g
326751-1	16	4	12	9



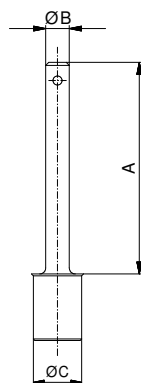
Stop NewXS 16

angled

Nr.	A	B	C	Type	g
324204-1	12	4	12,0	left	8
324318-1	12	4	12,0	right	8



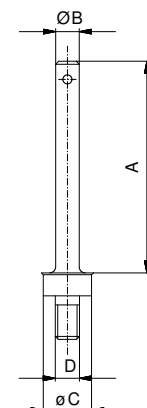
All NewXS stops have a pull-off thread M5



Hold-down column

self-locking

Nr.	A	B	C	D	
20338-1	35	3,9	8	46	3
22259-1	55	5,9	8	66	5

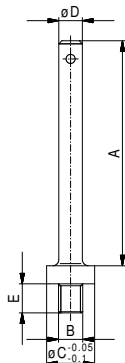


Hold-down column

with thread

Nr.	A	B	C	D	E	
20339-1	35	3,9	8	M4	46	3
22262-1	55	5,9	8	M4	66	5

 for connection using crosspiece (p. 38)

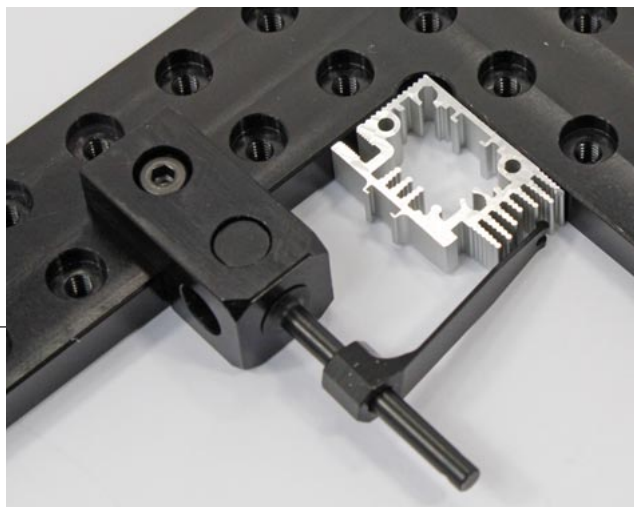


Hold-down column

with shortened thread

Nr.	A	B	C	D	E	
327460-1	37,2	M4	8	3,9	4,8	3

 for connection using crosspiece (p. 38)

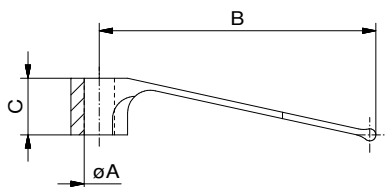


Hold down column with thread
mounted using crosspiece nut

Hold-down spring

self-locking on hold-down column

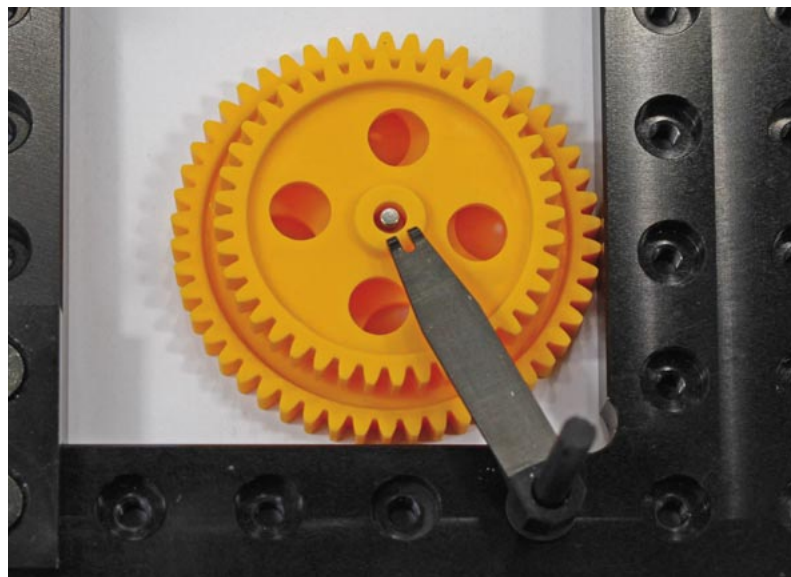
Nr.	A	B	C	
20244-1	4	36	7,5	1



Hold-down spring

in black polymer,
self-locking on hold-down column

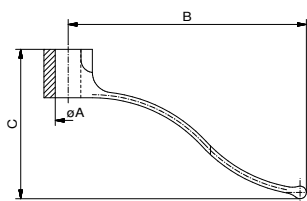
Nr.	A	B	C	
326971	4	36	7,5	1



Hold-down spring

for low clamping

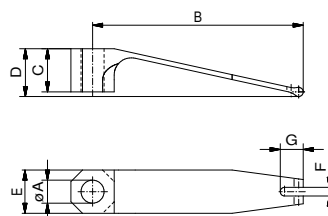
Nr.	A	B	C	
34634-1	4	36,5	23,5	2
34764-1	6	36,5	23,5	1



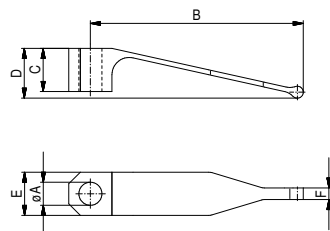
Hold-down spring

forked

Nr.	A	B	C	D	E	F	G	
324211-1	$\phi 4$	36,6	7,5	8,3	7,5	1,5	4	1



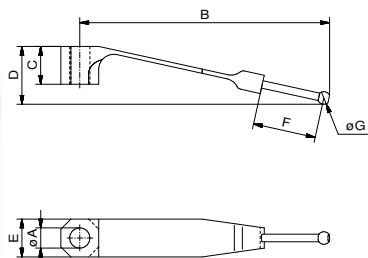
NewXS components can be anodized in different colours. Black (with suffix -1) is standard. Anodized natural is also available. Other colours on request.



Hold-down spring

tapered

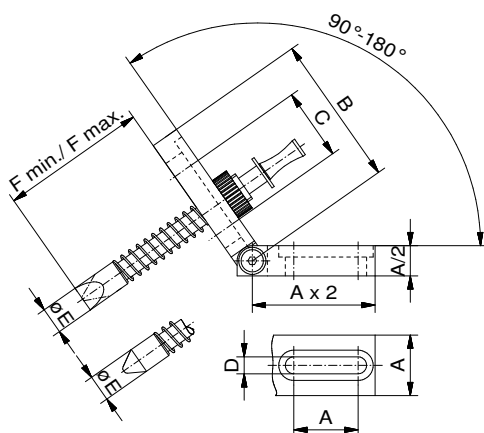
Nr.	A	B	C	D	E	F	G
326970-1	ø4	37	7,5	8,7	7,5	2	1



Hold-down spring

with ball point

Nr.	A	B	C	D	E	F	G
284708-1	ø4	49,5	7,5	11,5	7,5	12,5	ø2,5



Push rod NewXS 16

spring loaded

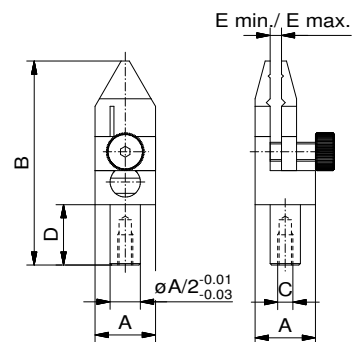
Nr.	A	B	C	D	E	F min.	F max.
284477-1	16	40	19	4,5	ø7	25	50



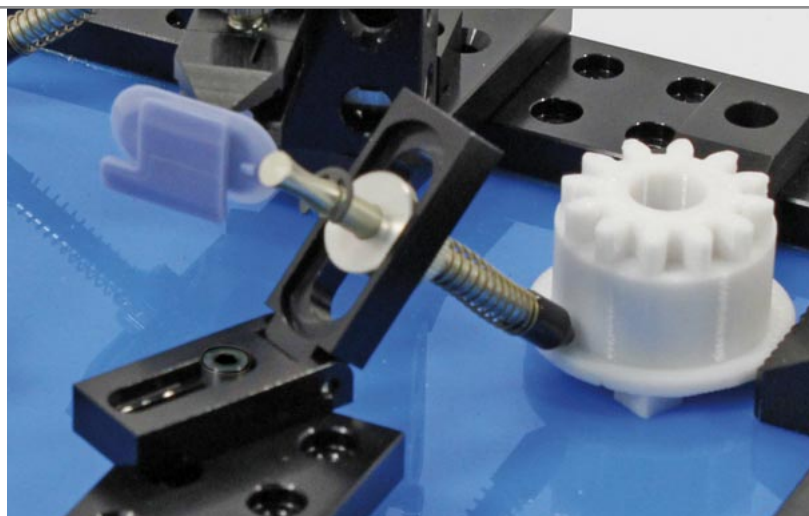
Parallel clamp NewXS 16

with exchangeable jaws

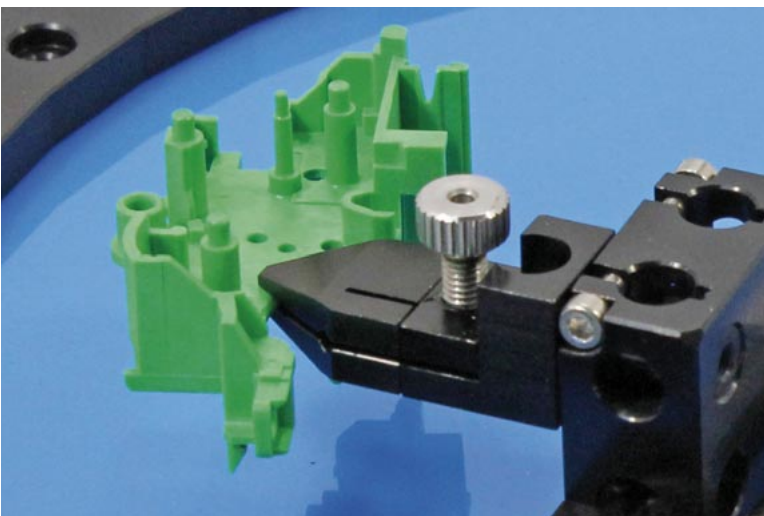
Nr.	A	B	C	D	E min.	E max.	g
284476-1	16	54	M4	16	0	8	20



Exchangeable jaws also available in other versions on request



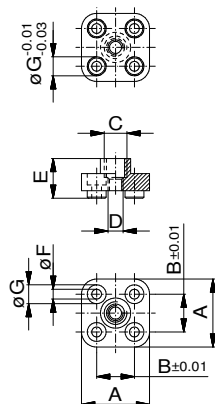
A push rod enables positioning from an angle



Parallel clamp in combination with clamp holder (p 12)



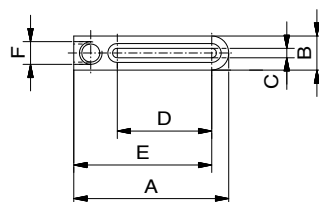
NewXS components can be anodized in different colours. Black (with suffix -1) is standard. Anodized natural is also available. Other colours on request.



Foot XS 16

Adapter with thread

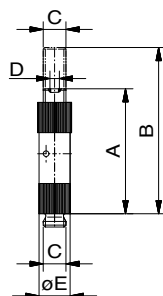
Nr.	A	B	C	D	E	F	G	g
335372-1	24	16	M6	M4	11	4,6	7	3



Adjustable fish-tongue

for positioning independent of grid

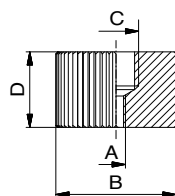
Nr.	A	B	C	D	E	F	g
32432-1	41	9	2,5	25	36,5	M6	10



Telescopic unit

with thread

Nr.	A	B	C	D	E	g
85839-1	33	44	M6	M2,5	8	5
85444-1	63	99	M6	M2,5	8	10
94806-1	33	48	M6	M2,5	8	5



Reducer female/female

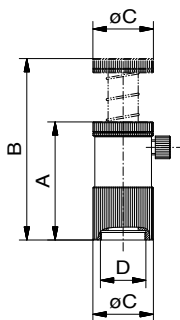
M6/M2,5

Nr.	A	B	C	D	g
327928-1	M2,5	12	M6	10	3

Supporter

spring loaded

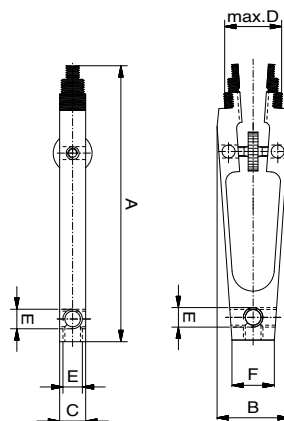
Nr.	A	B	C	D	
81585-1	31,2	48	16	M12X0,5	20



Pincers

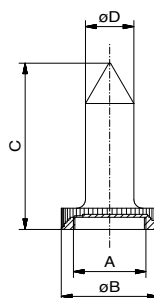
small and large

Nr.	A	B	C	D	E	F	
85423-1	46,8	16,9	8	9,3	M6	7	5
85443-1	85	22,2	8	17,5	M6	13	10



Center

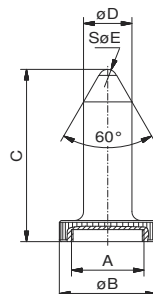
Nr.	A	B	C	D	
23638-1	M12 x 0,5	16	27,5	8	10
54031-1	M12 x 0,5	16	13,75	22	10



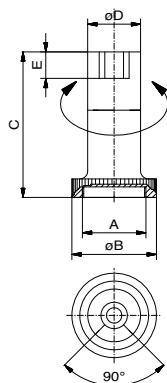
Center

with ball

Nr.	A	B	C	D	E	
85676-1	M12 x 0,5	16	28,5	ø8	ø3	4



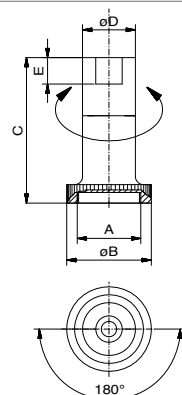
NewXS components can be anodized in different colours. Black (with suffix -1) is standard. Anodized natural is also available. Other colours on request.



Stop and support

90°

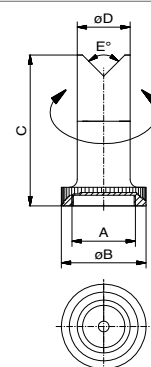
Nr.	A	B	C	D	E	
93157-1	M12x0,5	16	27,5	10	5	10



Stop and support

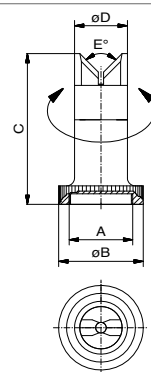
180°

Nr.	A	B	C	D	E	
93158-1	M12x0,5	16	27,5	10	5	10



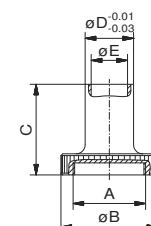
V-piece

Nr.	A	B	C	D	E	
93159-1	M12x0,5	16	27,5	10	90	10



Knife-V

Nr.	A	B	C	D	E	
93160-1	M12x0,5	16	27,5	10	90	10



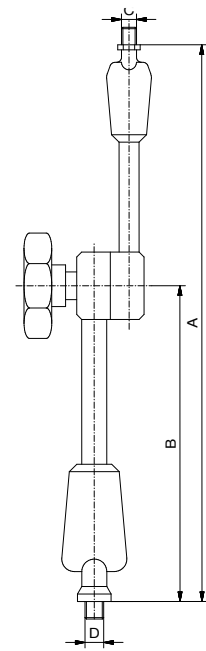
Magnetic Holder

Nr.	A	B	C	D	E	
95177-1	M12x0,5	$\phi 16$	15	$\phi 10$	$\phi 6$	60
95176-1	M12x0,5	$\phi 16$	22,5	$\phi 10$	$\phi 6$	100

Swivel arm

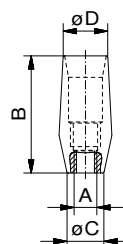
with joint

Nr.	A	B	C	D	max. load	
85411	130	70	M6	M6	30 N	135



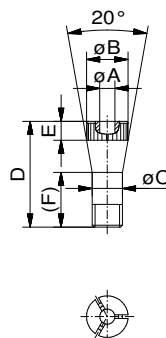
Collet chuck XS 16

Nr.	A	B	C	D	
32440-1	M6	31	9,8	11,8	10

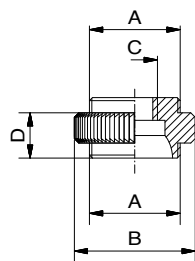


Collet XS 16

Nr.	A	B	C	D	E	F	
32453-1	1,0	11	8	28	5	14,5	3
32463-1	1,5	11	8	28	5	14,5	3
32464-1	2,0	11	8	28	5	14,5	3
32465-1	2,5	11	8	28	5	14,5	3
32466-1	3,0	11	8	28	5	14,5	3
32467-1	3,5	11	8	28	5	14,5	3
32468-1	4,0	11	8	28	5	14,5	3
32469-1	4,5	11	8	28	5	14,5	3
32470-1	5,0	11	8	28	5	14,5	3
32471-1	5,5	11	8	28	5	14,5	3
32472-1	6,0	11	8	28	5	14,5	3

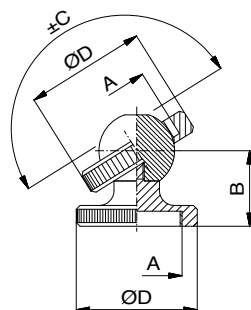


NewXS components can be anodized in different colours. Black (with suffix -1) is standard. Anodized natural is also available. Other colours on request.



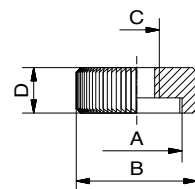
Adapter for Ball joint

Nr.	A	B	C	D	
32524-1	M12x0,5	16	M6	6	2



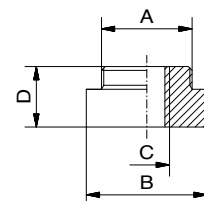
Ball joint

Nr.	A	B	C	D	
81588-1	M12x0,5	10	55°	16	4



Reducer

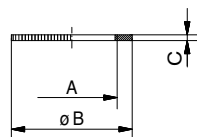
Nr.	A	B	C	D	
32525-1	M12x0,5	16	M6	6	2



Reducer

with collar, also for swivel arm

Nr.	A	B	C	D	
32526-1	M12x0,5	16	M6	8	3



Clamping ring

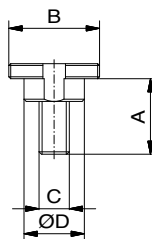
for keyless chuck

Nr.	A	B	C	
53928-1	M12x0,5	16	1,5	2

Fixing disc

with stud

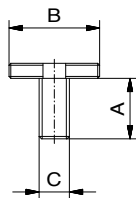
Nr.	A	B	C	D	
81587-1	10	M12x0,5	M4	8	2



Fixing disc

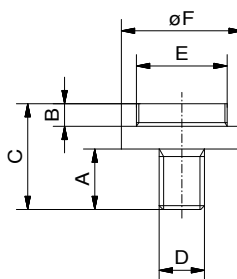
without stud

Nr.	A	B	C	
81589-1	8	M12x0,5	M4	2



Adapter disc

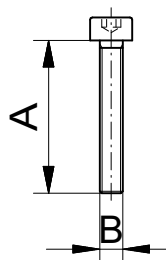
Nr.	A	B	C	D	E	F	
55875-1	8	3	14	M6	M12x0,5	16	3



Hex socket head screw

DIN 7984

Nr.	A	B	DIN	WAF	
17255-S1	8	M4	7984	2,5	1
11546-S1	10	M4	7984	2,5	1,5
16141-S1	12	M4	7984	2,5	1,5
16359-S1	16	M4	7984	2,5	1,5

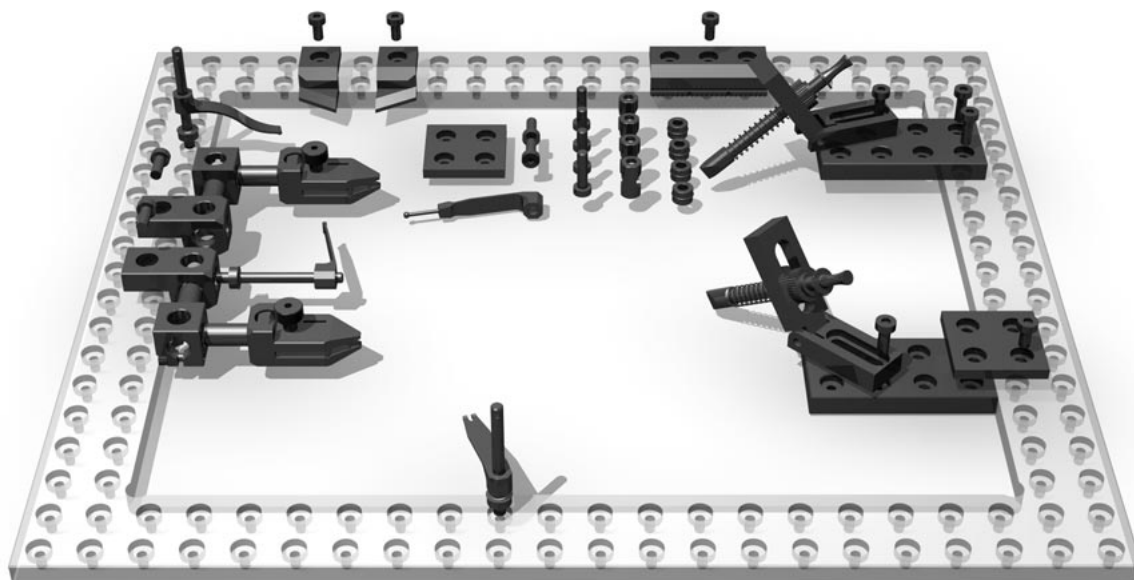


Tool

Nr.	WAF	
17374	2,5	240



NewXS components can be anodized in different colours. Black (with suffix -1) is standard. Anodized natural is also available. Other colours on request.



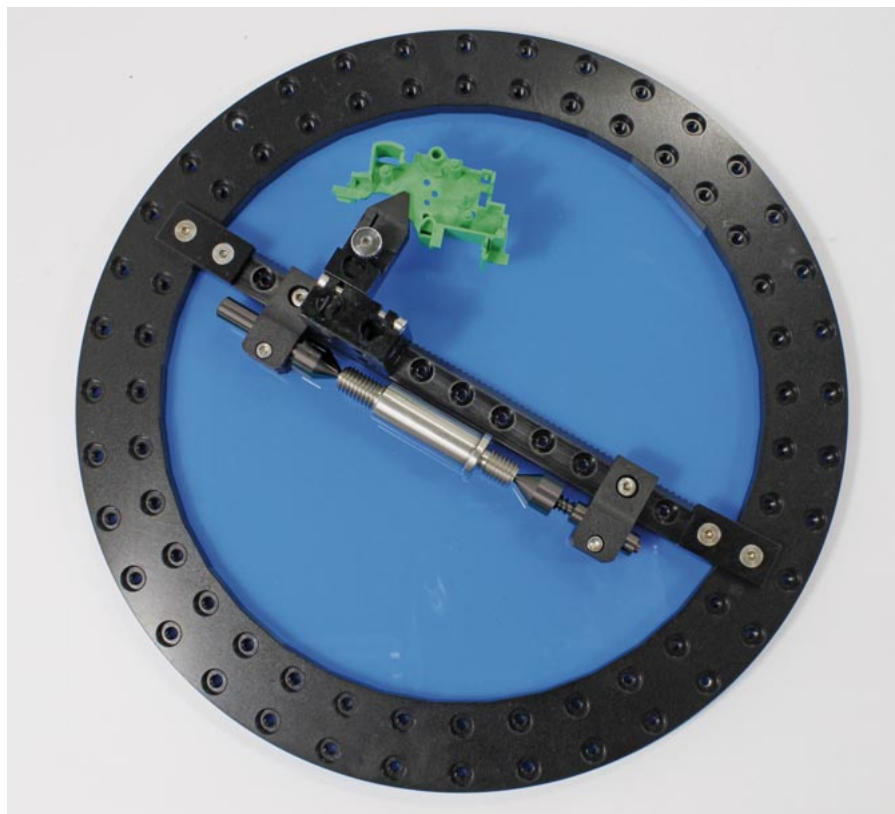
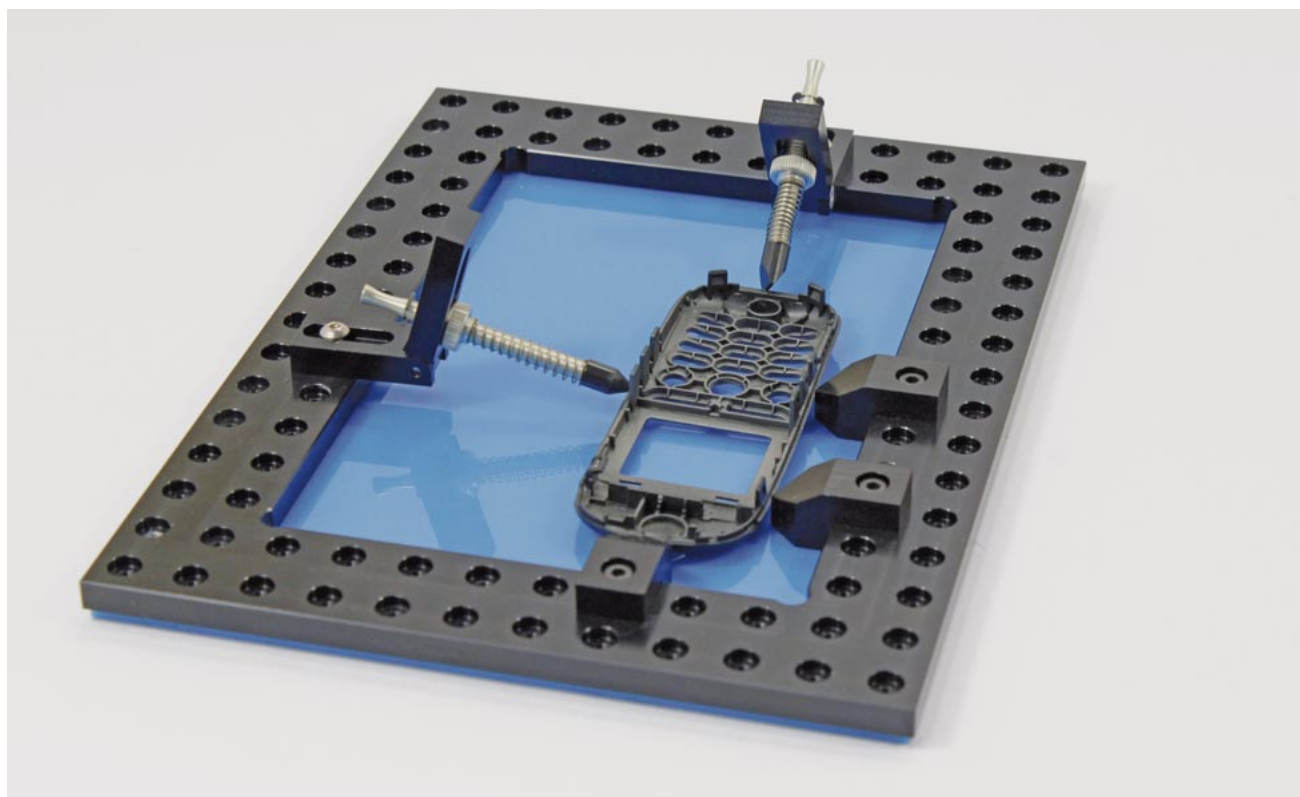
#284421-1 Basic Kit Set up components

NewXS 16, (42-pcs), 2,7 kg

 The grid frame is not included in the set. Frames and bars suitable for your specific application are shown from page 8

Nr.	pcs	Name
324205-1	2	Adapter plate B=32mm L=64mm
324203-1	2	Connecting lug B=32mm
324204-1	1	Stop angled left
324318-1	1	Stop angled right
324209-1	2	Basic bar XS 16
284476-1	2	Parallel clamp XS 16
284477-1	2	Push rod
324208-1	2	Clamp holder B=16mm L=32mm
324206-1	3	Stop serrated B=16mm
327460-1	3	Hold-down column with thread
34634-1	1	Hold-down spring for low clamping
20244-1	2	Hold-down spring
284708-1	1	Hold-down spring with ball end
324211-1	1	Hold-down spring with forked end
324216-1	4	Positioning sleeve D=8mm
17255-S1	4	Cylinder head screw M4x8 DIN 7984
11546-S1	4	Cylinder head screw M4x10 DIN 7984
16141-S1	4	Cylinder head screw M4x12 DIN 7984
16359-S1	4	Cylinder head screw M4x16 DIN 912
52891-1	4	Crosspiece Ø4,3/16 AF16
12417	1	Storage case





Various applications
for filigree parts



i NewXS components can be anodized in different colours. Black (with suffix -1) is standard. Anodized natural is also available. Other colours on request.

Components

ALUFIX 16 CLASSIC

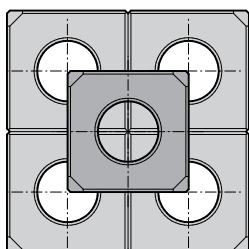
compatible with NewXS 16

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.

Profiles in original size



AF 16 full,
16x16,
32x32,
Hole diameter 8

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



Base plates

serve as a base for building small to medium size fixtures. They can be connected on all 6 sides using quick or screw connection technology and are extremely flexible for all kinds of applications.



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.

Struts

serve to increase rigidity in frame type fixtures and for supporting columns. Depending on requirements they are connected at the ends to bars, grid or base plates using quick or screw connectors. The specially designed strut ends allow them to be mounted in two different angles by rotating 180°.



Clamping elements

and clamps also in combination with workpiece contact points



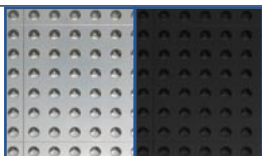
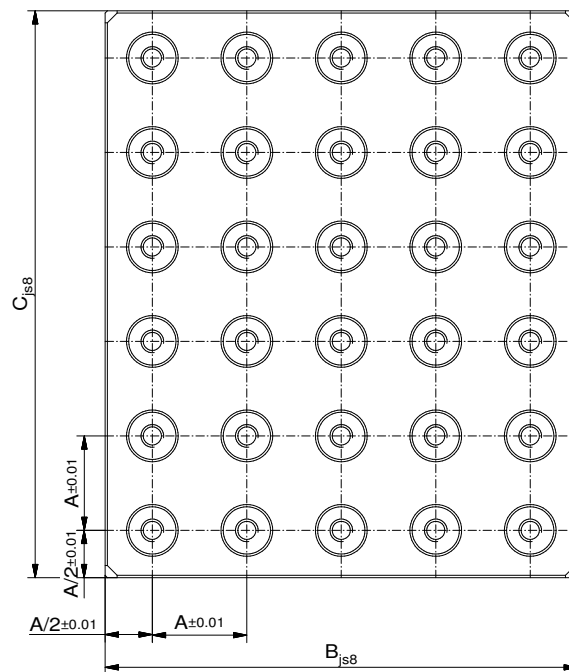
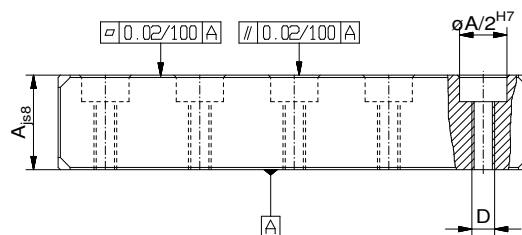
Adjustment elements

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

Grid Base Plate ALUFIX 16

Grid (A) 16, hole diameter 8mm

Nr.	A	B	C	D	
20640-1	16	128	256	M4	1.416
20641-1	16	160	320	M4	2.221
20642-1	16	192	256	M4	2.123
20643-1	16	192	384	M4	3.185
20644-1	16	256	320	M4	3.539
20645-1	16	256	384	M4	4.247
20646-1	16	320	320	M4	4.424
20647-1	16	320	640	M4	8.847
20648-1	16	384	384	M4	6.370
20649-1	16	384	512	M4	8.493



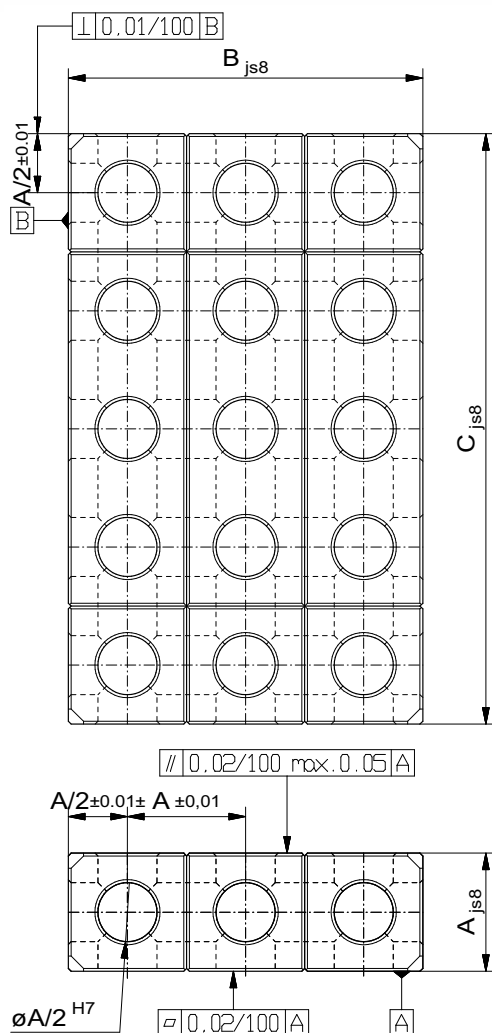
 **NewXS** Base plates can be anodized in different colours. Black (with suffix -1) is standard. Anodized natural is also available. Other colours on request.



Base plate ALUFIX 16

Grid (A) 16, hole diameter 8mm

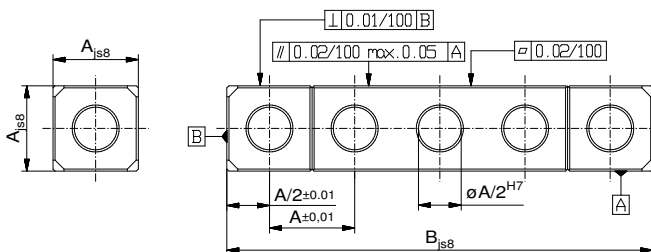
Nr.	A	B	C	
22093-1	16	32	32	27
22094-1	16	32	48	40
22095-1	16	32	64	53
22096-1	16	32	80	100
22932-1	16	32	96	80
22931-1	16	32	112	93
20652-1	16	32	160	131
20653-1	16	32	320	300
22930-1	16	64	96	160
21566-1	16	64	112	187
22929-1	16	64	128	214
21567-1	16	80	112	234
22928-1	16	80	128	267
21568-1	16	80	144	305
22926-1	16	80	160	335
21569-1	16	96	96	242
21570-1	16	96	112	282
21571-1	16	96	128	325
21572-1	16	96	144	375
21573-1	16	96	160	240
22924-1	16	96	176	447
22907-1	16	96	192	482
21574-1	16	112	240	703
21575-1	16	128	128	431
21576-1	16	128	144	475
21577-1	16	128	256	862
21579-1	16	160	192	804
21578-1	16	160	320	1.400
21580-1	16	192	256	1.298
21581-1	16	192	320	1.611
20112-1	16	240	240	1.510
22097-1	16	320	320	1.350
28076-1	16	384	384	3.812



Full Bar ALUFIX 16

One row bar 16x16, Grid (A)16, hole diameter 8mm

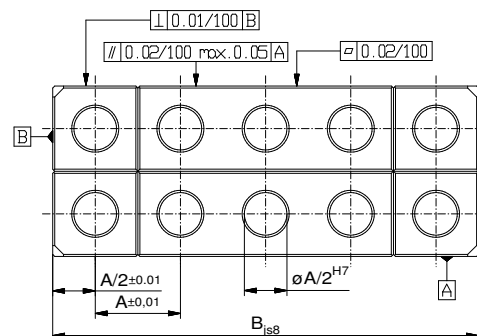
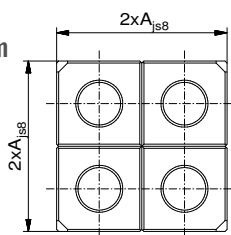
Nr.	B	
21582-1	16	7
21583-1	32	14
21584-1	48	21
21585-1	64	27
21586-1	80	33
20654-1	96	39
20801-1	128	53
20799-1	160	66
21587-1	320	140



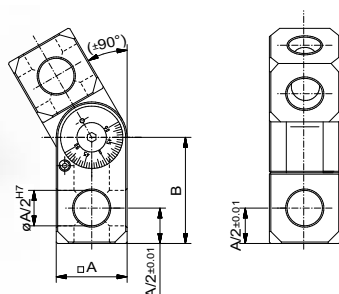
Full Bar ALUFIX 16

Two row bar 32x32, Grid (A)16, hole diameter 8mm

Nr.	B	
21588-1	32	53
21589-1	48	79
21590-1	64	108
21591-1	80	131
23892-1	96	160
20812-1	112	200
20848-1	128	230
20849-1	160	268
21592-1	320	537

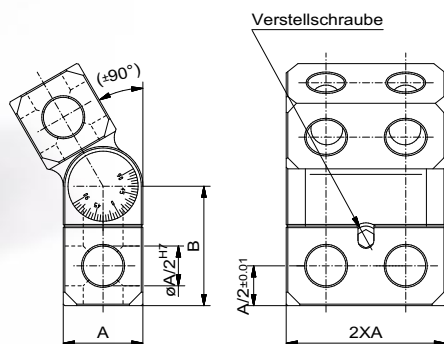


NewXS bars can be anodized in different colours. Black (with suffix -1) is standard. Anodized natural is also available. Other colours on request.



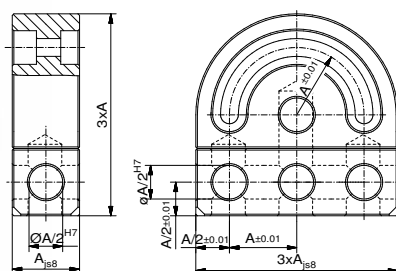
Knuckle

Nr.	A (AF)	B	
81668-1	16	45	28



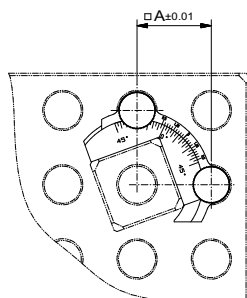
Double knuckle

Nr.	A (AF)	B	
81811-1	16	45	65



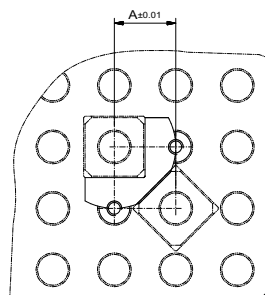
Swivel

Nr.	A (AF)		
24578-1	16		56



Heel block 45°- 90°

Nr.	A (AF)		
81607	16		4



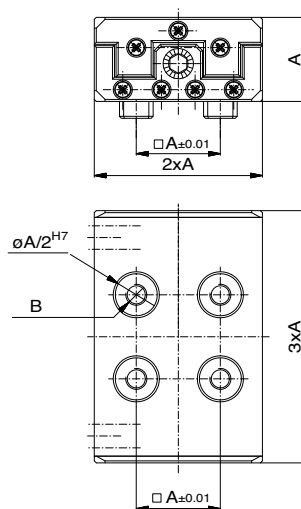
Heel block 45°/ 90°

Nr.	A (AF)		
23667-1	16		3

Roller slide

adjustment using a screw spindle

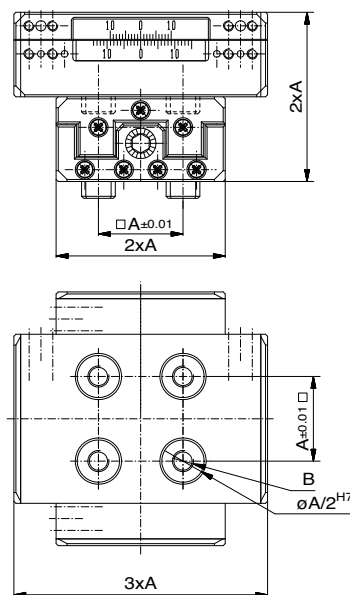
Nr.	A (AF)	B	max. load	shift	
82453-1	16	M4	20 kg	±9	89



Cross roller slide

adjustment using a screw spindle

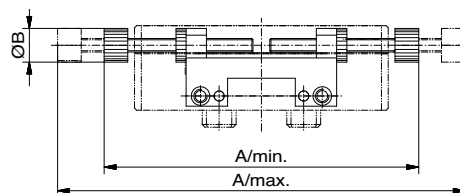
Nr.	A (AF)	B	max. load	shift	
82461-1	16	M4	20 kg	±9	178



Slide stop

for roller slides

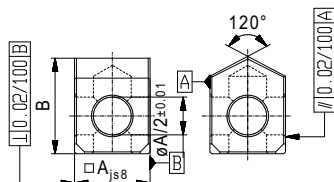
Nr.	A/min	A/max	B	
82411-1	59	77	6,4	98



NewXS components can be anodized in different colours. Black (with suffix -1) is standard. Anodized natural is also available. Other colours on request.



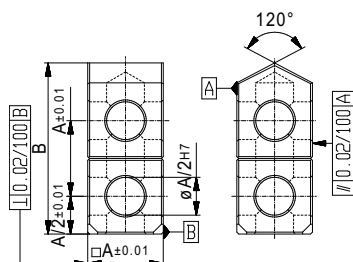
Arrange 2 delta blocks
in a V to support round parts



Delta block 120°

Form 1

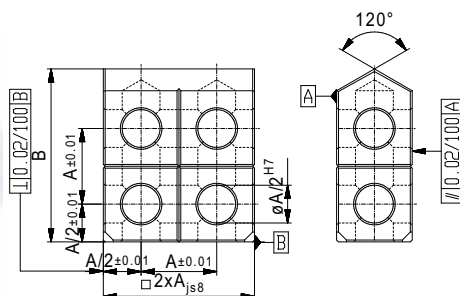
Nr.	A(AF)	B	
22240-1	16	20	8



Delta block 120°

Form 2

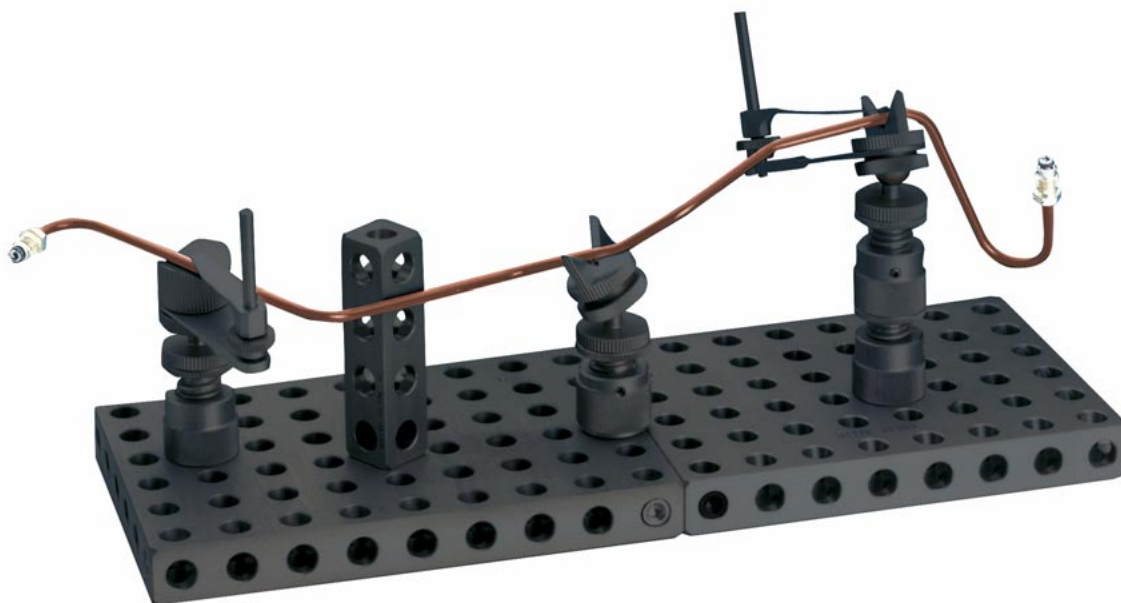
Nr.	A(AF)	B	
22252-1	16	36	15



Delta block 120°

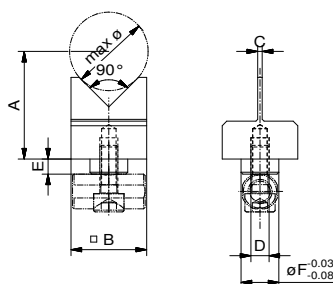
Form 3

Nr.	A(AF)	B	
22255-1	16	36	30



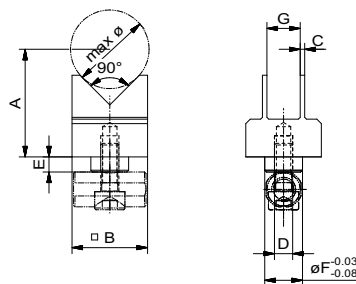
V piece 90° single

Nr.	A	B(AF)	C	D	E	F	g
80923-1	24	16	1	M4	3	8	9



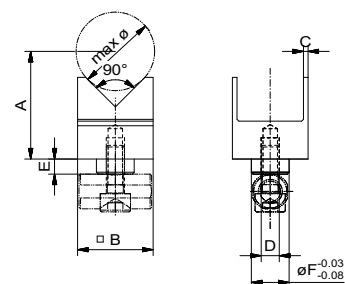
V piece 90° double, V narrow

Nr.	A	B(AF)	C	D	E	F	G	g
80921-1	24	16	1	M4	3	8	7	10

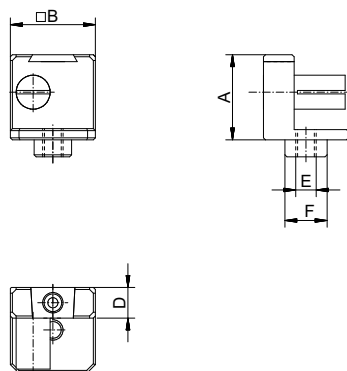


V piece 90° double, V wide

Nr.	A	B(AF)	C	D	E	F	g
80922-1	24	16	1	M4	3	8	10

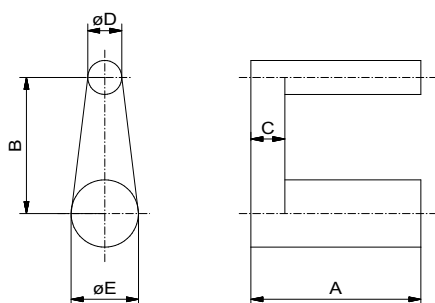


i NewXS components can be anodized in different colours. Black (with suffix -1) is standard. Anodized natural is also available. Other colours on request.



Winder

Nr.	A	B(AF)	D	E	F	
80742-1	16	16	6	M4	8	11



Deflector

Nr.	A	B	C	D	E	
22274-1	19	16	3	4	7,9	4



Winder tape

in plastic, 12 mm wide

Nr.	length (m)
00041	5

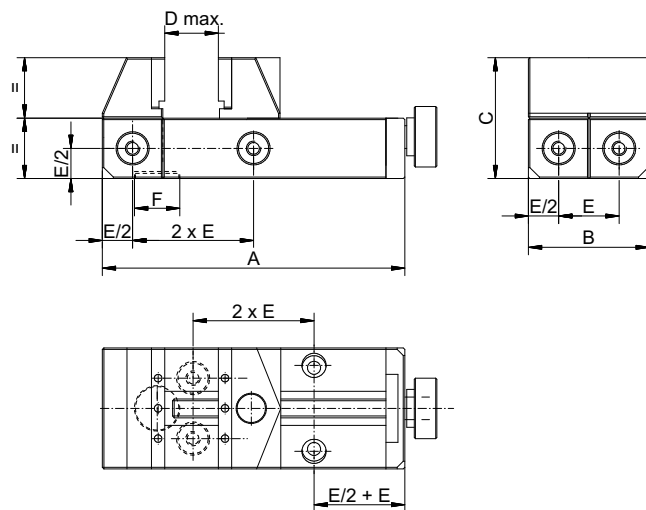
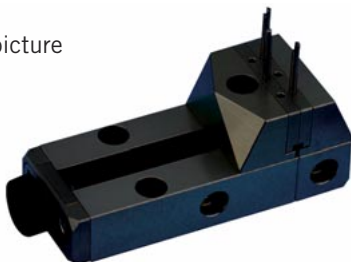
Round symmetrical parts quickly and easily positioned on V block for measuring and secured using winder, tape and deflector



Vise ALUFIX 16

Nr	E (AF)	A	B	C	D	E	F	g
81784-1	16	80	32	32	40	16	M12x0,5	310

Pins shown in picture not included



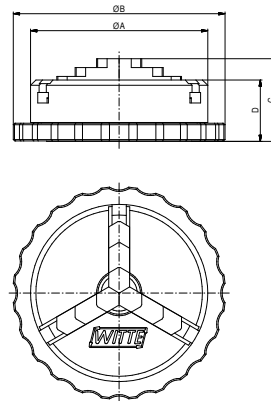
Pin ALUFIX 16

for vise

Nr.	A	B	C	D	E	g
24604-1						

3-Jaw Keyless Chuck ALUFIX 16

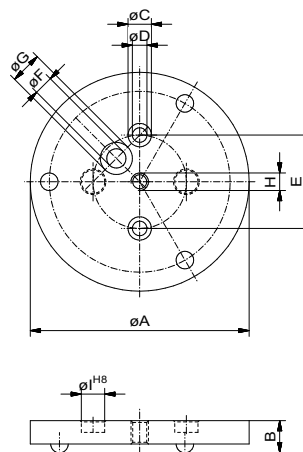
Nr.	A	B	C	D	g
82220-1A	50	60	23,3	17,3	95



Centerplate ALUFIX 16

for keyless chuck

Nr	A	B	C	D	E	F	G	H	I	g
82371-1	75	11	8	5	32	6,6	11	M6	8	100



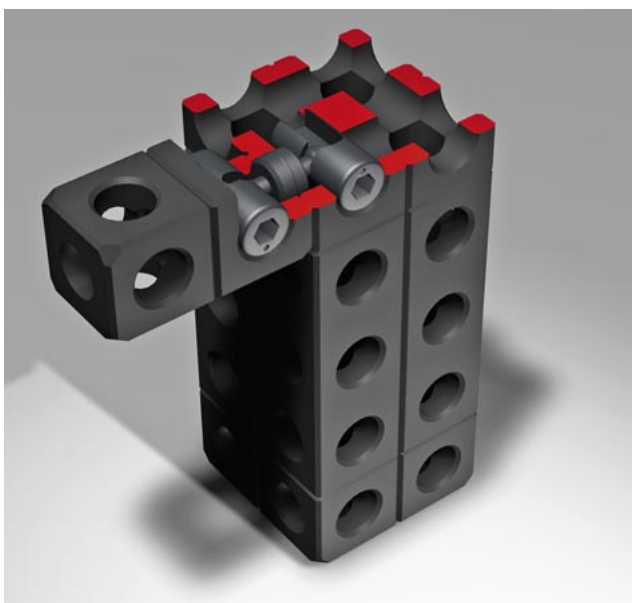
NewXS components can be anodized in different colours. Black (with suffix -1) is standard. Anodized natural is also available. Other colours on request.

For other versions of vises and keyless chucks please see our main catalogue, chapter "clamping elements"

ALUFIX

Connection Elements

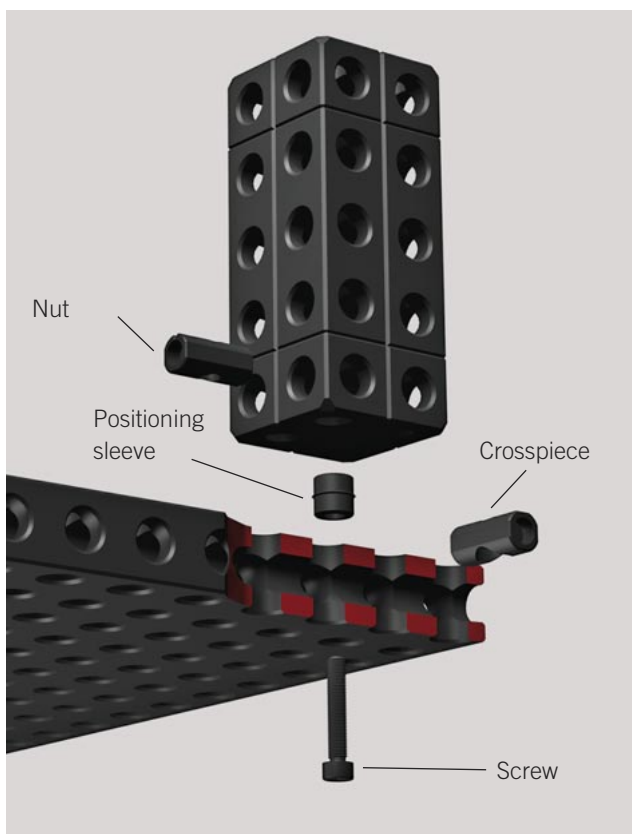
A variety of elements allows combination of Alufix components whenever two opposite holes, or a hole and a nub are to be connected. This works also between different system sizes using reducer sleeves.



Quick connection

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

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



Screw connection

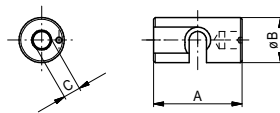
For lasting tight connections the screw connection has proved to be the best.



Lock Alufix

standard lock for quick connection

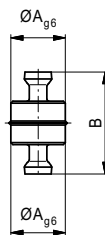
Nr.	System	A	B	C	
23250	AF 16	16	8	SW3	4



Twin bolt

for quick connection

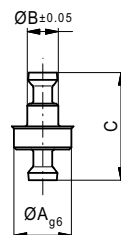
Nr.	System	A	B	
23247	AF 16	8	15	3



Twin bolt

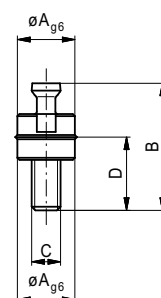
for bar 1D and base plate 2

Nr.	System	A	B	C	
23248	AF 16	8	4	15	2



Combi bolt

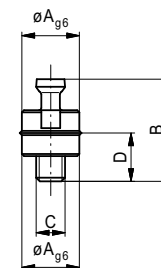
Nr.	System	A	B	C	D	
23249	AF 16	8	17,7	M4	10,2	3

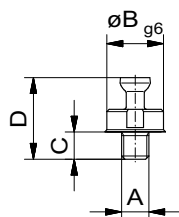


Combi bolt

shortened

Nr.	System	A	B	C	D	
25742	AF 16	8	14,2	M4	6,7	1

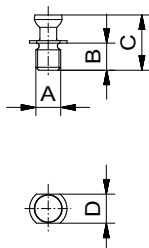




Combi bolt

for grid plate without fitted bore and keyless chuck

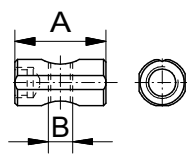
Nr.	System	A	B	C	D	
25746	AF16	M4	8	3,5	11	2



Combi bolt

shortened, for elements with nubs

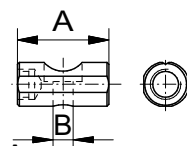
Nr.	System	A	B	C	D	
20341	AF 16	M4	4,5	8,9	SW5	1



Crosspiece nut

for screw connection

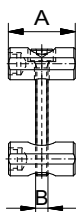
Nr.	System	A	B	
80620-1	16	16	M3	2
80621-1	16	16	M4	2
81277-1	16	16	M3	2



Crosspiece

for screw connection

Nr.	System	A	B	
21596-1	16	16	3,3	2
21597-1	16	16	4,3	2



Connecting set

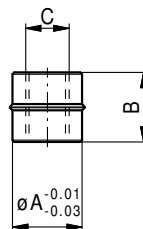
for screw connection

Nr.	System	A	B	
80697-1	16	16	M3	4
80698-1	16	16	M4	14

Positioning sleeve

AF 16

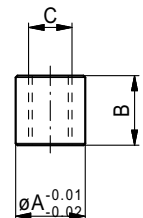
Nr.	A	B	C	g
324216-1	8	6	M5	1



Positioning sleeve

plain

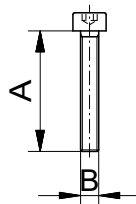
Nr.	A	B	C	g
21599-1	8	8	M5	1



Hex socket head screw

DIN 912

Nr.	A	B	DIN	WAF	g
17255-S1	8	M4	7984	2,5	1
11546-S1	10	M4	7984	2,5	1
16141-S1	12	M4	7984	2,5	1,5
16359-S1	16	M4	7984	3	1,5

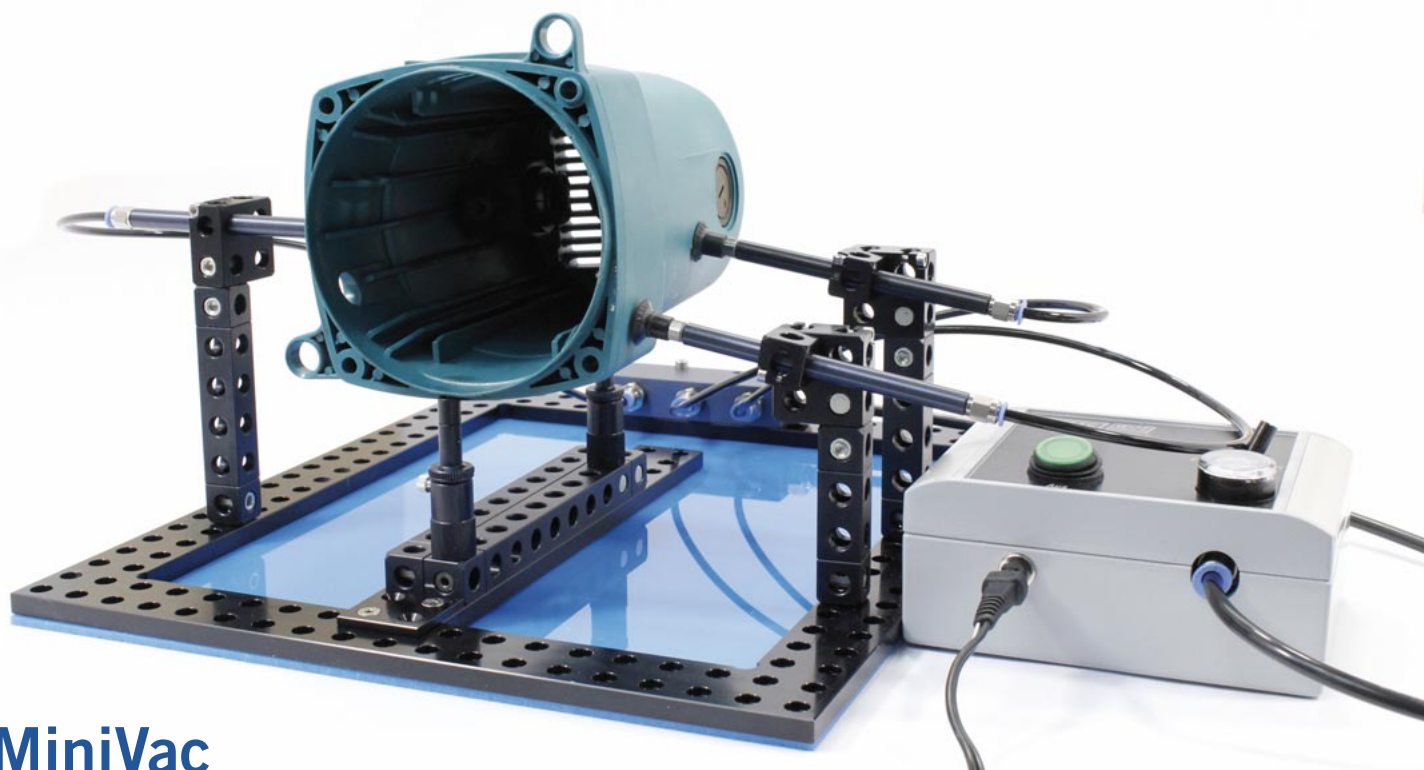


Standard thread sizes are printed in **bold** print

Tool

Nr.	WAF	g
17375	2	210
17374	2,5	220
17636	3	230

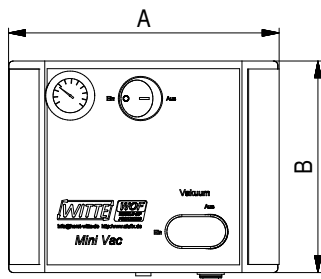
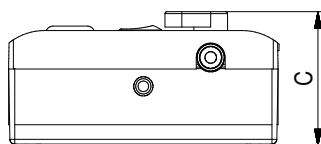




MiniVac

Vacuum clamping system

The MiniVac vacuum pump supplies air intake for up to 6 suckers using a minimum of space. An integrated tank with pressure difference switch prevents an abrupt drop in vacuum (and in worst case release of workpiece) and avoids pump running continuously.



MiniVac pump

3500ccm/h

Nr.	A	B	C	
284752	140	110	70	480

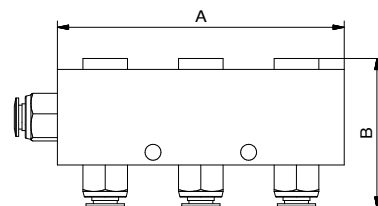
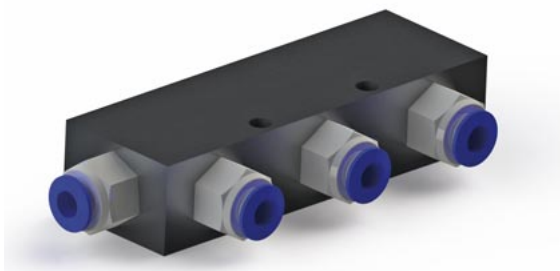


 Operation via 220V power pack, integrated on/off switch with light display, vacuum switch and manometer. Double function membrane pump, max. 90° volume, 3500ccm/h. tank approx. 150ccm.

MiniVac Distributor

with 6 connections inc. 1m connection hose to vacuum pump

Nr.	A	B	C	
284753	90	47	20	180



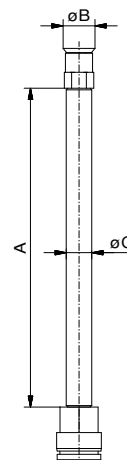
MiniVac Sucker

comprising: tube, sucker, connector

Nr.	A	B	C	
284391	100	10	8	20



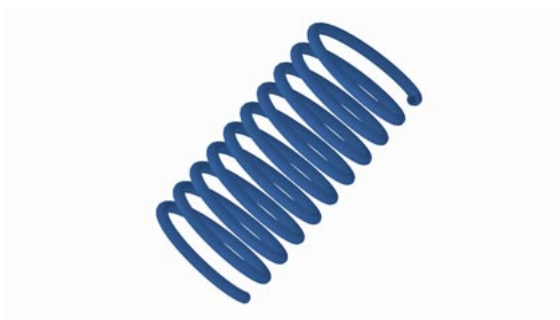
The suckers have a standard diameter of 10mm and are made of NBR.
Other materials, dimensions, forms (i.e. oval) on request.

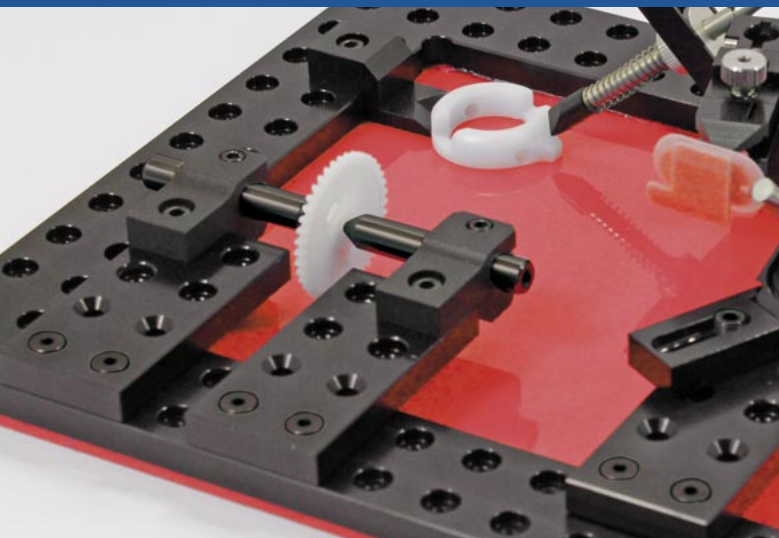


MiniVac – Suction hose

In PU, black

Nr.	D	L	
00958	6x1	1m	17



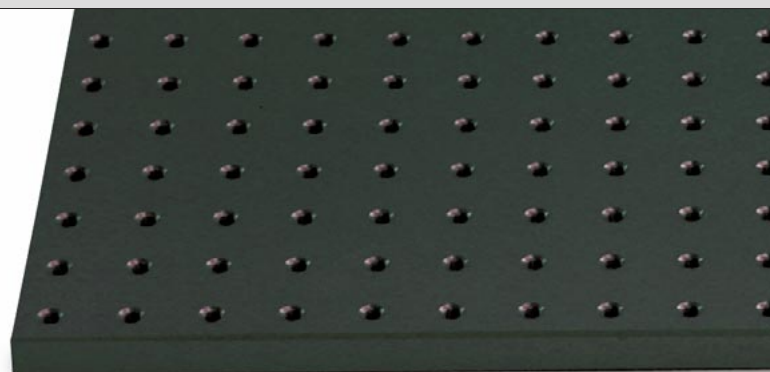
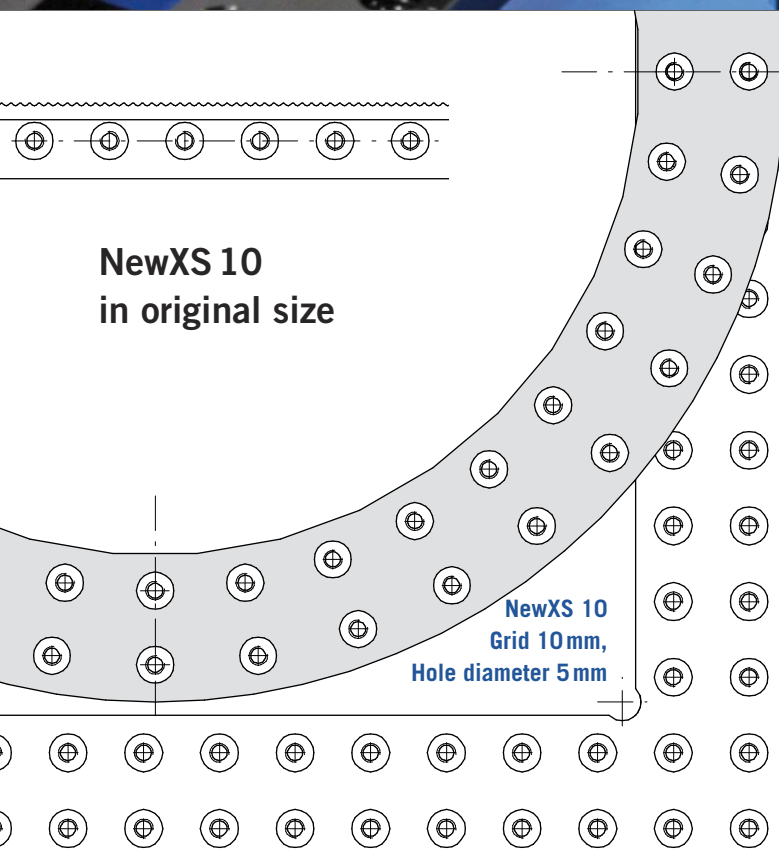
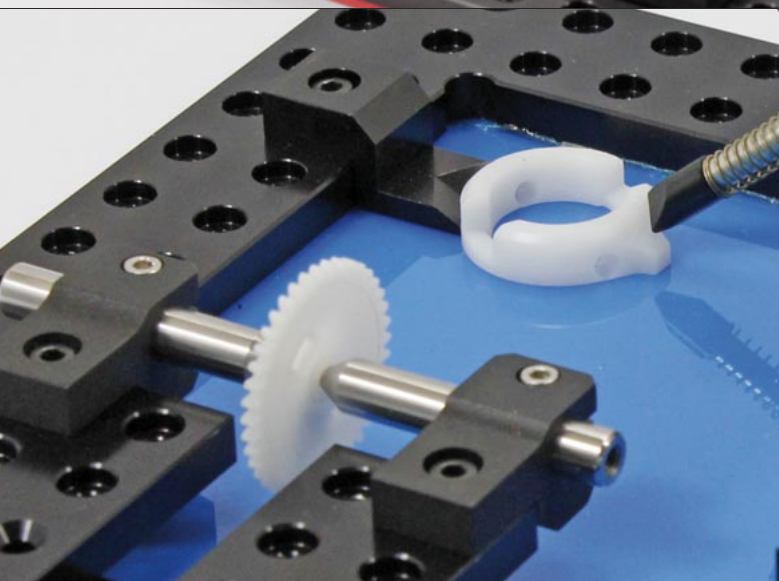


Available on request

NewXS 10

Modular fixturing system for optical measuring and checking instruments

Components in system size New XS10
are available on request



Index

A

Adapter 24
Adapter disc 25
Adapter plate 11
Adjustable fish-tongue 20
ALUFIX 16 28
Angle connecting lug 11

B

Ball joint 24
Bar 10
Base plate 30
Basic bar 12
Basic Kit 26

C

Center 13, 21
Centerplate 37
Clampholder 12
Clamping ring 24
Collet 23
Collet chuck 23
Combi bolt 39, 40
Components 5, 7, 26, 28
Connecting lug 11
Connecting set 40
Connection Elements 38
Contents 1
Cross roller slide 33
Crosspiece 40
Crosspiece nut 40

D

Deflector 36
Delta block 34
Distributor 43
Double knuckle 32

F

Fixing disc 25
Foot 20
Full Bar 31

G

Grid Base Plate 29
Grid frame 8
Grid ring 8

H

Heel block 32
Hex socket head screw 25, 41
Hold-down column 16
Hold-down spring 17, 18

I

Introduction 3, 4, 5, 6

K

Keyless Chuck 37
Knife-V 22
Knuckle 32

L

Lock 39

M

Magnetic Holder 22
MiniVac 42, 43

N

NewXS 10 44

O

Original size 6, 28, 44

P

Parallel clamp 19
Pin 37
Pincers 21
Positioning sleeve 41
Pump 42
Push rod 18

Q

Quick connection 38

R

Reducer 20, 24
Roller slide 33

S

Screw 4, 38
Screw connection 38
Serrated bar 14
Slide stop 33
Stop 14, 15
Stop and support 22
Stop with clamp 9
Sucker 43
Suction hose 43
Supporter 21
Swivel 32
Swivel arm 23

T

Tailstock 13
Telescopic unit 20
Tool 25, 41
Twin bolt 39

V

V-piece 22, 35
Vise 37

W

Winder 36
Winder tape 36



Modular Fixturing Systems



PROject Project implementation made to order



FixBase® Loading systems Structure plates Automation



FIXINSPECT® Measuring accessories Optical / tactile systems



Vacuum Clamping Systems

Witte: Fixed on precision
whatever the means

Germany
Witte Barskamp GmbH & Co. KG
Horndorfer Weg 26-28
D-21354 Bleckede
Germany
Tel.: +49 (0)5854/89-0
Fax: +49 (0)5854/89-40
E-mail:
info@witte-barskamp.de
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

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

Mexico
Horst Witte de Mexico
S.A. de C.V., c/o Linco
Paseo Opera 4 Int 112-2
Lomas de Angelopolis San Andres
Cholula, Puebla 72830, Mexico
Phone: +52 (222)563-7929
E-mail:
info@wittemexico.com
www.wittemexico.com