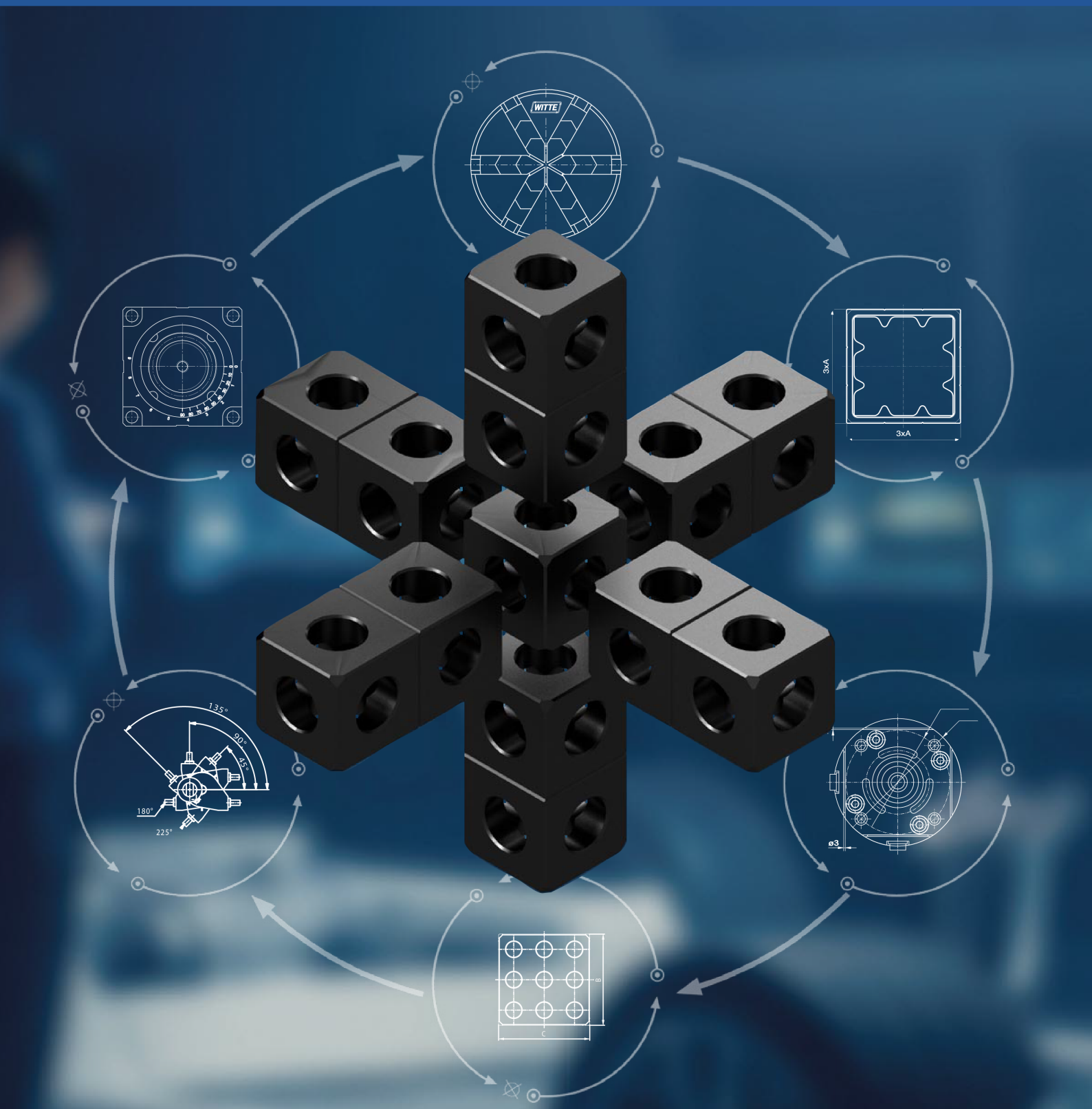
ALUFIX

Main Catalogue



2023

Fixed on precision

WITTE

100% Compatibility

- overall system upwards and downwards compatible
- all system sizes can be combined with one another
- no weight and size limits
- existing systems and clamping aids can be integrated

100% Continuity

- ALUFIX has existed for more than 35 years
- the basic design idea has always been maintained
- future expansion will also follow this principle

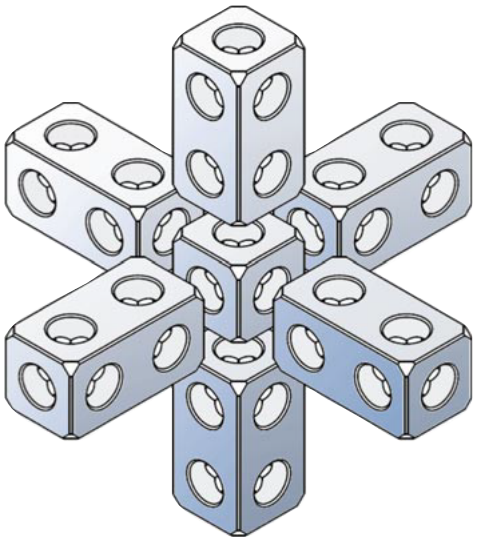
100% Availability

- over 90 percent of the components are in stock
- dispatch within 24 hours
- Witte's own, flexible production with high depth of manufacturing
- worldwide service network

Features and benefits

- highest precision due to fine machining on all sides
- all components are made of high-strength or medium-strength aluminum (depending on the Classic/Eco/ECO Plus product version).
- extremely light and highly resilient
- high stability with extremely low weight
- corrosion-resistant and maintenance-free
- wear-resistant thanks to anodized coating on all sides
- system sizes can be combined
- available in four system sizes
- low space requirement due to well-thought-out variety of components
- no weight and size limits of workpieces to be mounted
- completely reproducible
- long-term multiple use thanks to reusable components
- no special assembly tools required
- parts library for all CAD systems
- free user training at Witte

The ALUFIX principle: ingenious from the base up



Six sides, eight corners, twelve edges: the starting shape and basic element of the ALUFIX system geo metry is the cube. All other element configurations are created by multiplying this basic shape - with through bores on all surfaces creating connection options on all sides. Each hole is suitable for both positioning and fixing.

The ALUFIX element geometry ensures that the grid is precisely maintained in all directions and across any number of joins.

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Creation of the ALUFIX element geometry

- starting point

- through bore on all surfaces

- chamfers on all edges

- bevels on all corners

- sectional view

Connection technology

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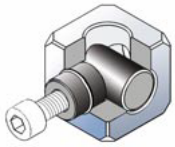
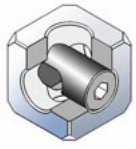
- sleeve for positioning

- crosspiece nut to screw in



- sleeve, nut and screw

- twin bolt for positioning



- lock to secure

- lock and twin bolt

The ALUFIX application and system diversity

ALUFIX elements are used for

- measuring fixtures
- holding fixtures
- checking gauges
- assembly and welding fixtures
- meisterbocks
- support structures for cubings and gauges

As well as

- in prototype building
- in model making
- in design development as support for clay models

Versions

ALUFIX Classic
Made of high-tensile aluminum for the highest demands on load, stability, durability and accuracy.

ALUFIX Eco
Made of medium-tensile aluminum as an inexpensive alternative for normal use and moderate part change intervals.
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System sizes

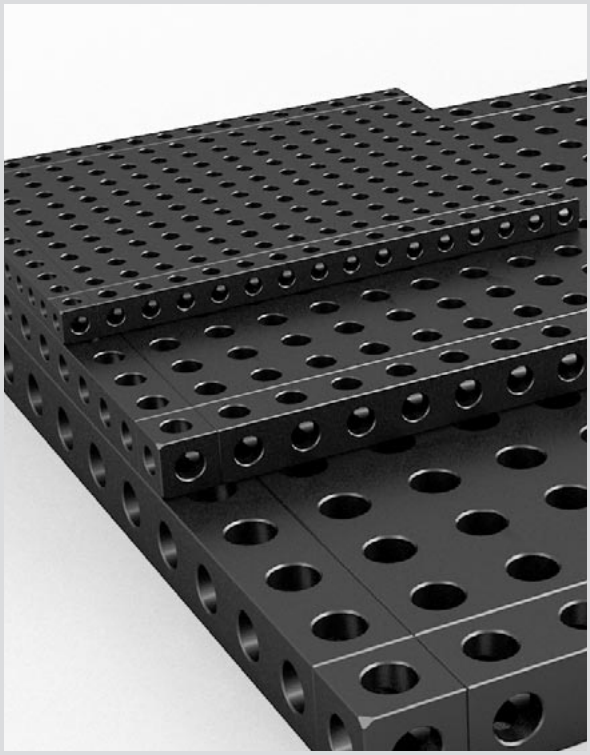
- AF 16 for holding and optical measurement of small parts
- AF 25 for fixtures for small to medium size single parts
- AF 40 for medium-sized to large fixtures for assemblies, meisterbocks etc.
- AF 50 for the support of large and heavy parts

Element groups

- Basic elements
  - plates, structure plates, plate areas
  - bars, struts, angle brackets
- Adjustment elements
  - slides, rocker, jacks, rotary plates
- Contact elements
  - spheres, cones, prisms, contour blocks
- Clamping elements
  - hold-down springs, toggle clamps, clamps, keyless chucks, vises, magnets
- Connection elements
  - couplings, quick connectors, screw connectors

Alufix base plates

The proven base for multiple fixtures



The dimensions: precise variety

ALUFIX base plates are available in Witte system size s16, 25 and 40.
Standard dimensions and base plates from the preferred range can be found on the following pages. Information on other dimensi ons is available on request.

Aluminium material: high quality light metal

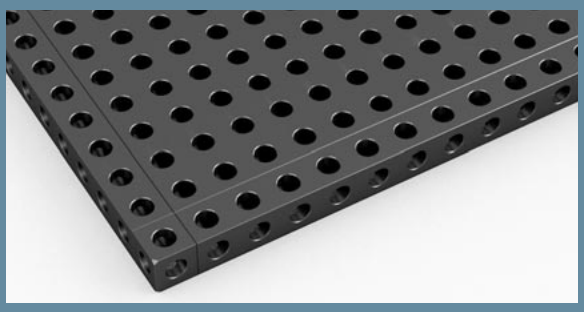
Depending on the product version (Classic/ECO), ALUFIX base plates are made of high-strength or medium-strength aluminium. Always in selected high-quality materials.

ALUFIX base plates are mainly used for small and medium sized fixtures. The plates are rigid, pre cise and offer the greatest freedom in assembly, as the entire surface can be used - in contrast to frame type fixtures construction made of profiles, which are suitable for larger structures. ALUFIX base plates are available in two versions:

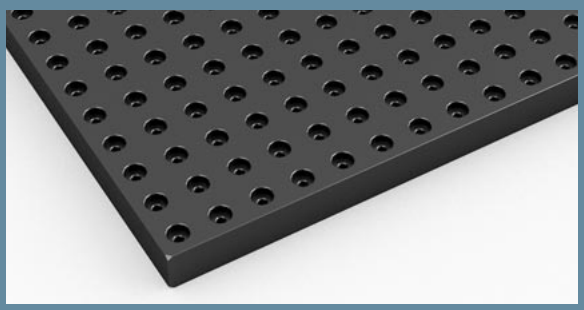
ALUFIX Classic base plates
with mounting holes on all 6 sides.

ALUFIX grid base plates
with mounting holes only on the surface,
in Eco design.

ALUFIX Classic base plate :



ALUFIX grid base plates Eco :



ALUFIX Classic Base plates

AF16 Classic,
Grid(A)16, hole-diameter 8mm

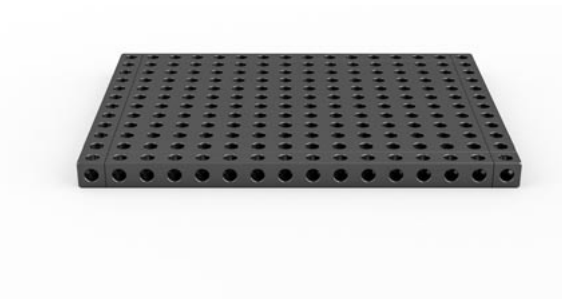
	Nr.	A	B	C	g
	22093-1	16	32	32	27
C ■	22094-1	16	32	48	40
C ■	22095-1	16	32	64	53
C ■	22096-1	16	32	80	100
C ■	22932-1	16	32	96	80
	22931-1	16	32	112	93
C ■	20652-1	16	32	160	131
	20653-1	16	32	320	300
	22930-1	16	64	96	160
	21566-1	16	64	112	187
	22929-1	16	64	128	214
	21567-1	16	80	112	234
	22928-1	16	80	128	267
	21568-1	16	80	144	305
	22926-1	16	80	160	335
C ■	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

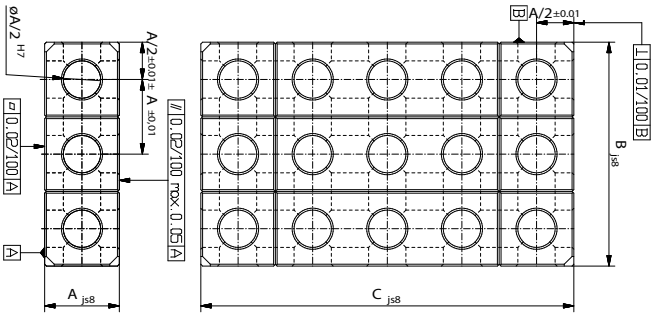
AF25 Classic,
Grid(A)25, hole-diameter 12,5mm

	Nr.	A	B	C	g
C ■	21703-1	25	50	50	100
C ■	21704-1	25	50	75	150
C ■	21705-1	25	50	100	200
C ■	21706-1	25	50	125	250
C ■	22957-1	25	50	150	302
C ■	22959-1	25	50	200	403
C ■	22885-1	25	50	250	503
	21707-1	25	50	500	1.009
	21488-1	25	100	125	506
	28032-1	25	100	150	600
	21347-1	25	100	175	708
	21496-1	25	125	125	630
	21348-1	25	125	175	888
	21349-1	25	125	225	1.135
	21350-1	25	150	150	908
	21351-1	25	150	175	1.048
	21352-1	25	150	200	1.211
	21353-1	25	150	225	1.348
	21354-1	25	150	250	1.523
	21355-1	25	175	375	2.606
	21356-1	25	200	200	1.617
	21357-1	25	200	225	1.826
	28033-1	25	200	300	2.590
	21358-1	25	200	400	3.246
C ■	21360-1	25	250	300	3.035
	21359-1	25	250	500	5.061
C ■	21361-1	25	300	400	4.860
	21362-1	25	300	500	6.068
	22911-1	25	400	500	8.200
	22915-1	25	400	600	9.900
	22913-1	25	500	500	10.250
	22919-1	25	600	600	14.900
	22921-1	25	600	800	19.900
	20280-1	25	600	1.000	24.700

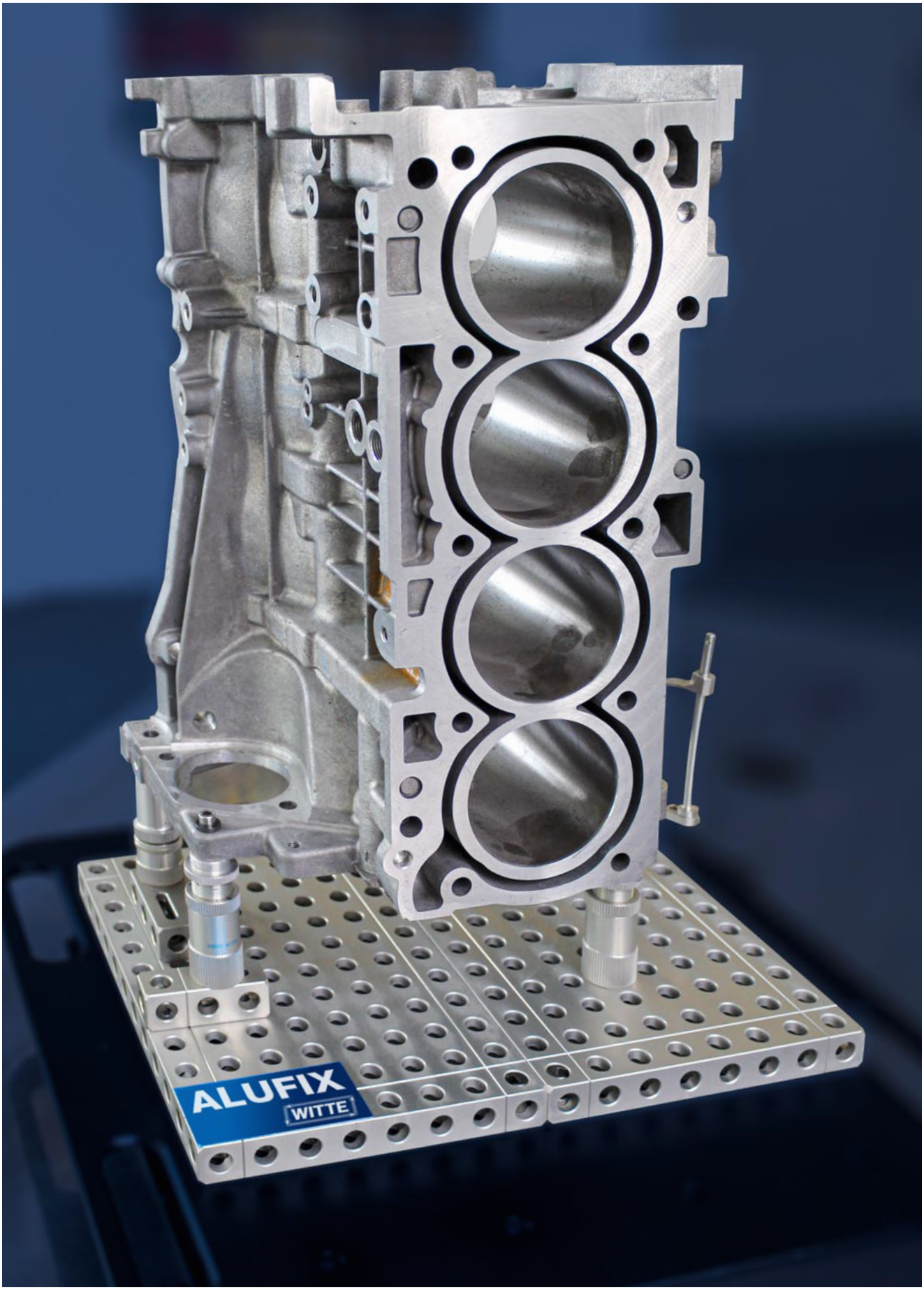
AF40 Classic,
Grid(A)40, hole-diameter 20mm

	Nr.	A	B	C	g
C ■	21698-1	40	80	80	410
C ■	21699-1	40	80	120	619
	21700-1	40	80	160	825
C ■	21701-1	40	80	200	1.031
	22909-1	40	80	240	1.239
	22910-1	40	80	280	1.440
	22906-1	40	80	320	1.647
	21702-1	40	80	800	4.125
C ■	22862-1	40	160	200	2.027
	22861-1	40	160	240	2.486
	21257-1	40	160	280	2.900
	22860-1	40	200	200	2.568
	22842-1	40	200	240	3.092
	21258-1	40	200	280	3.600
	22843-1	40	200	320	4.123
	21259-1	40	200	360	4.638
	22851-1	40	200	400	5.153
	21260-1	40	240	240	3.670
	21261-1	40	240	280	4.291
	21262-1	40	240	320	4.904
	21263-1	40	240	360	5.517
	21264-1	40	240	400	6.133
	22839-1	40	280	320	5.800
	22900-1	40	280	360	6.500
	21265-1	40	280	600	10.900
	21266-1	40	320	320	6.539
	21267-1	40	320	360	7.356
	21268-1	40	320	640	13.078
	21269-1	40	400	480	12.500





C·E ALUFIX preferred range
Green: Item is available immediately.
C: Classic version, E: Eco version, CE: Classic or Eco
■: color "black"



Application example: Fixture for a cylinder block on an ALUFIX Classic base plate

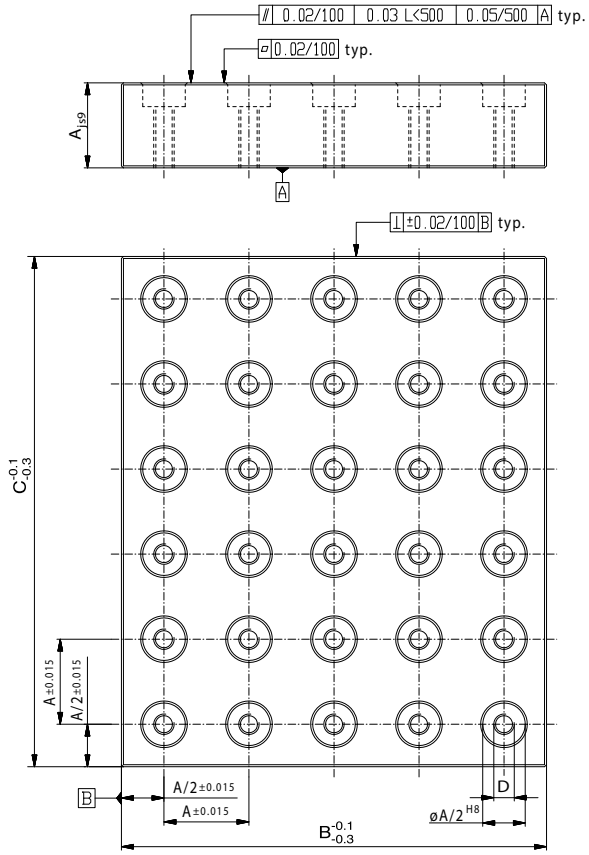
ALUFIX grid base plates Eco

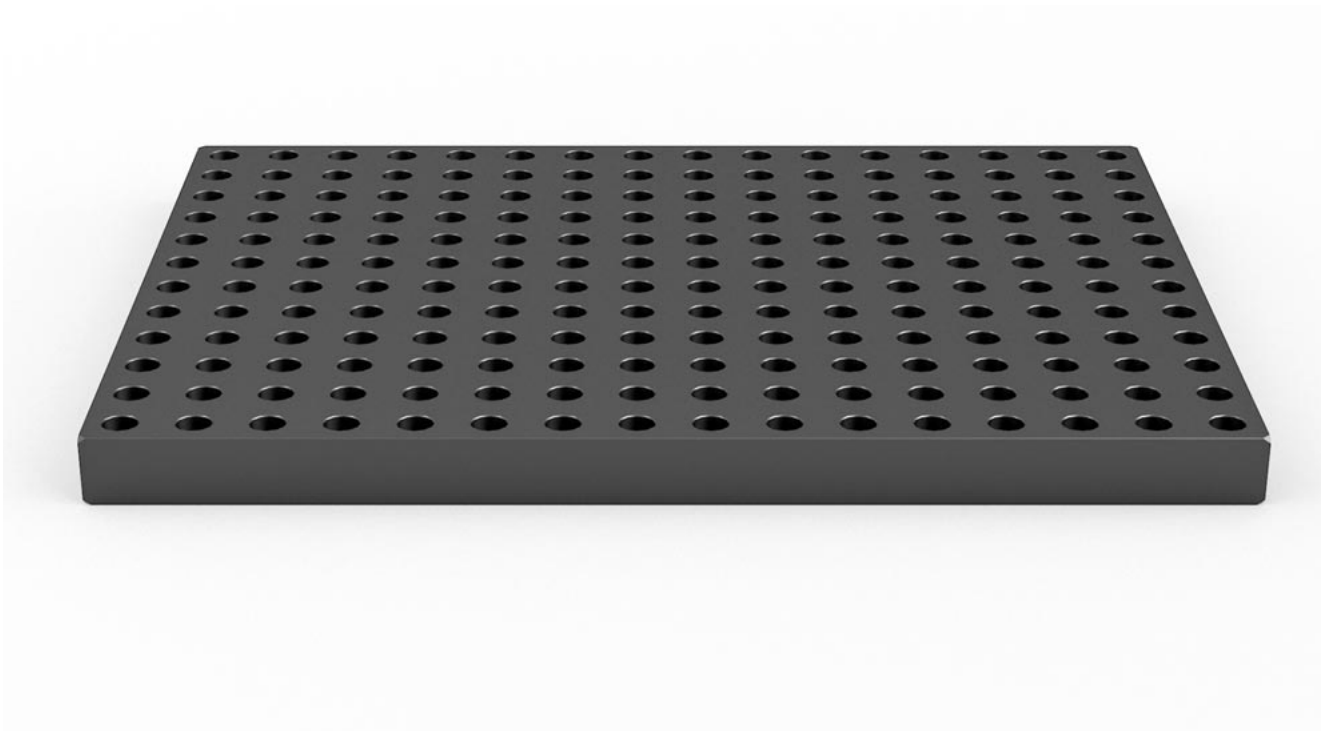
ALUFIX 25 Eco
Grid (A) 25, hole-diameter 12,5 mm

Nr.	A	B	C	D	g
20387-E1	25	200	400	M6	5.400
20388-E1	25	250	500	M6	8.438
20403-E1	25	300	400	M6	8.100
20386-E1	25	300	600	M6	11.250
22923-E1	25	400	500	M6	13.500
22925-E1	25	400	600	M6	16.200
20439-E1	25	500	500	M6	16.875
20381-E1	25	500	1.000	M6	33.750
20382-E1	25	600	600	M6	24.300
20384-E1	25	600	800	M6	32.400

ALUFIX 40 Eco
Grid (A) 40, hole diameter 20 mm

Nr.	A	B	C	D	g
20650-E1	40	320	640	M10	22.118
20651-E1	40	400	800	M10	34.560
20710-E1	40	480	640	M10	33.177
20711-E1	40	480	960	M10	49.766
20713-E1	40	640	800	M10	55.296
20714-E1	40	640	960	M10	66.355
20715-E1	40	800	800	M10	69.120
20808-E1	40	800	1.600	M10	138.240
20809-E1	40	960	960	M10	99.533
20810-E1	40	960	1.280	M10	132.710





ALUFIX Precision Grid Base Plates

- Witte Alufix base plates provide a versatile and absolute precise base for repeatable measure - ments of clamped workpieces and fixtures.
- Individually configured to best fit your measu - rement volume, your measurement system or your fixture size.
- Designed to accommodate various and changing clamping configurations.
- Universally compatible to all Alufix modular system components as well as other non-Witte systems*

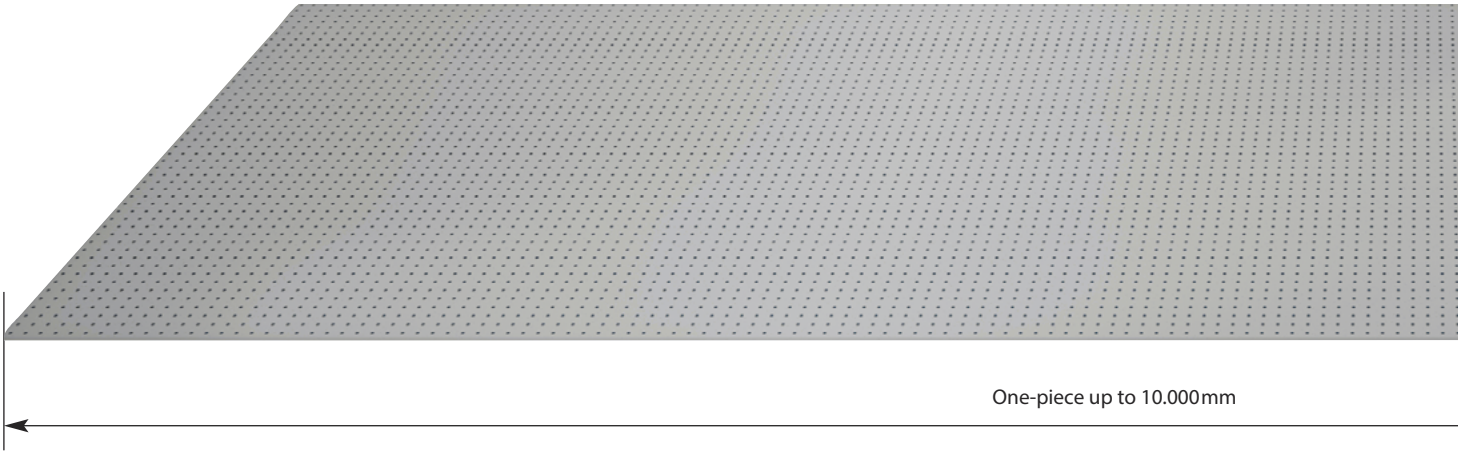
*considering a non-Witte system having the same or smaller thread size and precision bore diameter.

Universal design, individual solution

Witte precision grid base plates are designed to be used on CMM tables. With according size options, mounting through holes and designated eye bolt threads for safe lifting and handling. The plates provided are efficiently suitable for all common CMM tables and optical measu - rement systems as well as fixtures even as the standard pre-configured versions.

Individual user specific requests range in combination of different grid spacing, plate thickness, length and width, surface treatment and plate surface type.

Whether used as a large universal grid base plate or base of a small part holding fixture: Alufix grid base pla - tes provide the needed precision and stability for your reliable and perfect measurement result. At all conditi - ons, with the flexibility ensured. Proven over a thousand times…



Grid spacing

- var. — Per customer request
- 200
- 100
- 50
- 25

Grid holes

- Precision hole and thread as a bushing
- Precision hole as a bushing, thread in plate material
- Precision hole and thread in plate material
- Precision hole as exchangeable bushing

Version

- One-piece
- Multi-piece

Handling

- Hoist rings / eye bolts From 600x800mm
- Handle Up to 600x800mm
- Fork lift pockets

Perfect pre-configured::

- Dimensions from 200x400mm to 2.500x10.000 mm
- Plate thickness options 20 / 25 / 30mm
- Grid spacing 50 / 100mm
- High precision bores with thread
- Plate mounting through holes
- Surface treatment black or clear anodizing
- Delivery time approx. 6 weeks

Available special options:

- Feet, with or without frame
- Individual grid spacing and bushings
- Special surface treatment – hard anodized
- traceable test report

Uniquely versatile: size variable high-precision bores

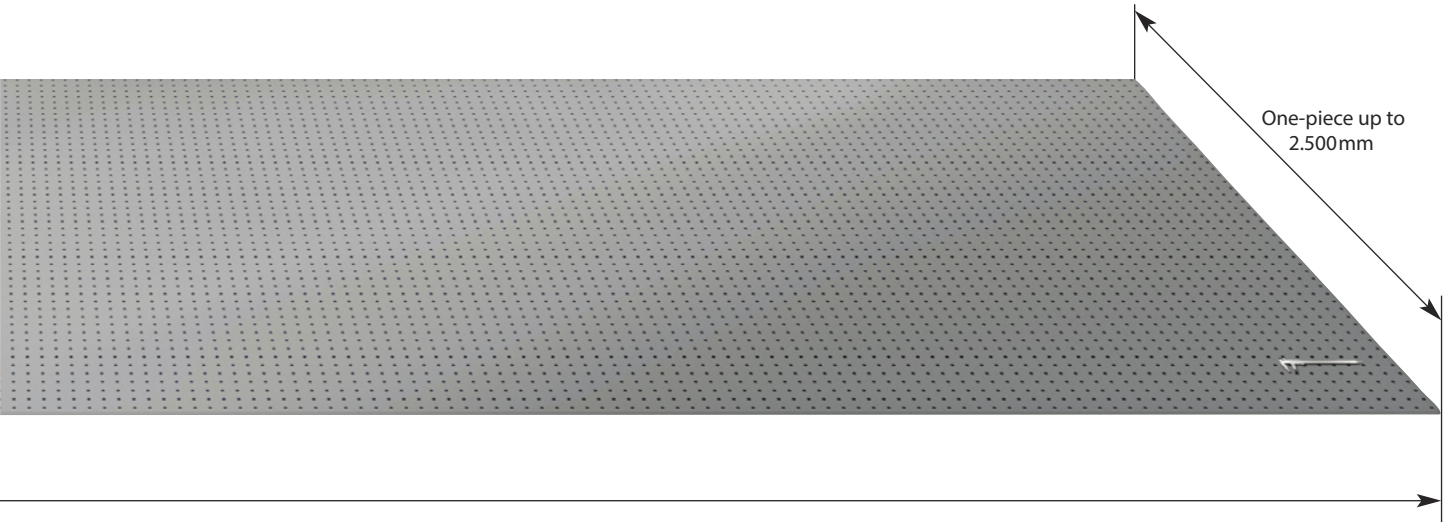
The innovative solution of having size variable high-precision bores makes the Witte grid base plates the most flexible and versatile bases of their kind.

Previously not available: Size variable bushing inserts with precision bore and thread .

The precision bores in the top surface of the plate offer a unique optional benefit: bolt-table inner-diameter and thread reducing bushings.

This enables the option to have a large and changing variety and also user-specific, but most importantly precisely repeatable, clamping configuration.

Irrelevant of the hole diameter and clamping system used.



Surface-treatment

Clear or black anodizing

Hard anodized (extra thick coating)

Plate surface

Even to floor

Resting on

On feet

Labels

Letter and number grid markings

var. Individual customer request

Documentation

Traceable test report

= Standard/pre-configured

= Option/Individual

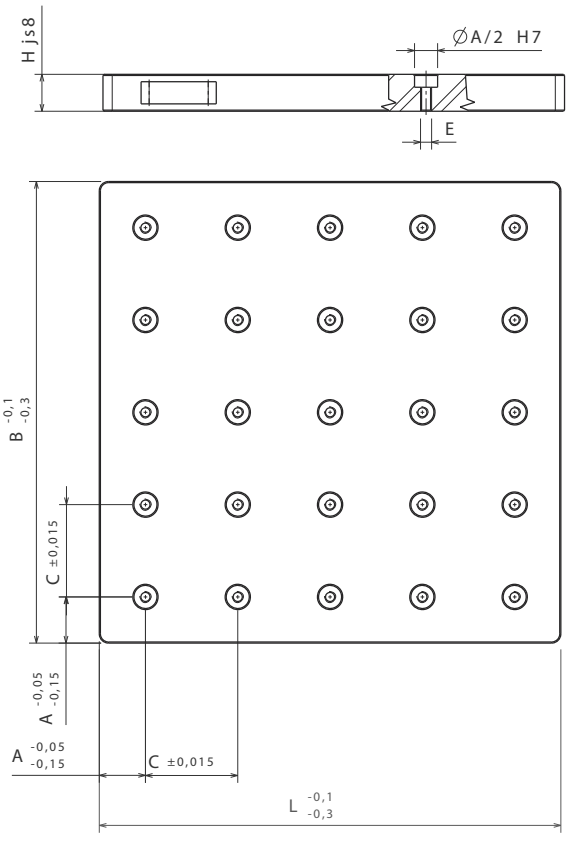
ALUFIX Precision Grid Base Plates

ALUFIX 25 Precision Grid Base Plates
Grid (C) :50, Thread (E) :M6, Witte-system (A) :25

Nr.	B	L	H
124367-1	200	400	20
124500-1	250	250	20
124368-1	250	500	20
124501-1	300	400	20
124369-1	300	600	20
124502-1	400	500	20
124503-1	400	600	20
124504-1	500	500	20
124370-1	600	600	20
124505-1	600	800	20
124371-1	500	1.000	25
124506-1	700	700	25
124507-1	700	800	25
124508-1	700	900	25
124509-1	700	1.000	25
124510-1	900	1.200	25
124511-1	900	1.300	25
124512-1	900	1.600	25
124513-1	1.000	1.200	25
124514-1	1.000	1.600	25
124515-1	1.200	1.800	25
124516-1	1.200	2.400	25
124517-1	1.200	3.000	25
124518-1	1.200	4.200	25
124519-1	1.600	2.400	25
124520-1	1.600	3.000	25
124521-1	1.600	4.200	25
124522-1	2.000	2.400	25
124364-1	2.000	3.000	25
124523-1	2.000	4.200	25
124524-1	2.100	3.200	25
124525-1	2.100	4.400	25

ALUFIX 40 Precision Grid Base Plates
Grid (C) :100, Thread (E) :M10, Witte-system (A) :40

Nr.	B	L	H
124377-1	500	1.000	30
124378-1	600	600	30
124379-1	600	800	30
124380-1	700	700	30
124381-1	700	800	30
124382-1	700	900	30
124383-1	700	1.000	30
124384-1	900	1.200	30
124385-1	900	1.300	30
124386-1	900	1.600	30
124387-1	1.000	1.200	30
124388-1	1.000	1.600	30
124389-1	1.200	1.800	30
124390-1	1.200	2.400	30
124391-1	1.200	3.000	30
124392-1	1.200	4.200	30
124393-1	1.600	2.400	30
124394-1	1.600	3.000	30
124395-1	1.600	4.200	30
124396-1	2.000	2.400	30
124397-1	2.000	3.000	30
124398-1	2.000	4.200	30
124399-1	2.100	3.200	30
124400-1	2.100	4.400	30



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,Suite250
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