



Sistema Modulare di Staffaggio per Strumenti di Misura
Modular Fixturing System for Measuring Instruments

ALUKEEP GENERAL CATALOGUE



Alukeep is a German company situated in Munich, whose Headquarter is located in the north-east of Italy, in Verona, a territory in Veneto region with a high concentration of precision mechanics production.

For 15 years, our **ALUKEEP** patented modular fixturing system for measuring equipment has been manufactured by our company, in our own ISO 9001 certified plant.

ALUKEEP is regularly exported in 25 countries around the world through distributors operating in the metrology market.

And now we are glad to announce the new joint venture with **Anhui Shangzhan Mold Industry Co., Ltd (SZM)**, located in ShuangFeng Industry District, Hefei, China. The SZM Company is a professional checking fixture manufacturing Taiwanese-owned enterprise with 60 acres floor space and 200 employees.

The automotive field, especially car manufacturers and their suppliers, are the main users of our product.

ALUKEEP modular fixturing system has been appreciated for its quality, competitive price, practise use and flexibility.

Inspired by our agents all over the world, who work close to end customers in various fields, we increase the range of use of our system by adding components in our range, day by day.

We have technically developed our product by bringing the system to the level required by car manufacturers for its use in high-tech checking systems such as **Meisterbock Fixture** or **Checking Fixtures** for sheet metal and/or plastic components.

The High-quality standard of the **Alukeep system** is the result of the following factors:

- methodology working according to ISO standards
- high qualified and motivated staff.
- production made by high precision machines
- CMM quality control

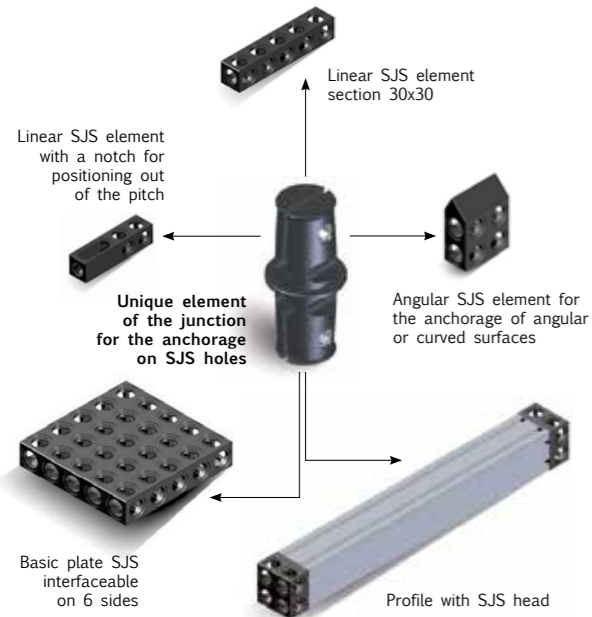




Patented Modular Fixturing System, made in Italy and Germany, used for repeatable positioning of to-be-tested components with contact-free 3D measuring systems, scanning-photometric laser technology, vision units.

Alukeep's strengths:

- Easy, practical and quick system, for all kinds of modular fixtures regardless of size, shape, material.
- The best choice for quality/price ratio, with a short payback of the investment.
 - Accuracy & repeatability
 - Increase of productivity, time of setting & adjustment.
- Fast delivery
- Automotive field



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KIT COMPOSIZIONE STANDARD

STANDARD SET

MINI SLIM KIT



Codice Code	Descrizione	Q.tà Q.ty	Description
1002101	Piastra base 300x210 filettata m8 passo 30mm	1	Tapped baseplate 300x210x15mm m8 30mm pitch
1003205	Bussola per fissaggio piastre filettate con vite m8	1	M8 screw with bush locking plates
1004101	Colonna d12.5 M-f m8-m8 l=15	3	M-f 12.5mm dia m8 column l=15mm
1004105	Colonna porta appoggi con codolo l=30	3	12.5Mm DIA column for pull stud top elements
1004151	Colonna registrabile d12.5 M-f m8-m8 / 50-70mm	3	12.5Mm DIA adjustable column m-f m8-m8 / 50-70mm
1005103	Appoggio piano	1	Flat pull stud 12.5 DIA
1005104	Appoggio vertici 90°	2	Stop and support 90deg pull stud 12.5 DIA
1005105	Appoggio spigoli 180°	3	Stop and support 180deg pull stud 12.5 DIA
1007101	Molla di pressione s	1	Small hold down spring
1007102	Molla di pressione l	1	Large hold down spring
1007104	Staffa l	2	Large clamp
1007105	Ghiera per staffa	3	M8 ring for clamps
1007107	Asta filettata m8 l=40	3	M8 threaded rod l=40mm
1007110	Asta ø6 l=60	2	Hold down stud l=60mm
1007203	Molletta distanziatore con doppio foro	1	Spring spacer with double holes
1010201	Chiave a forchetta s=10mm	1	Forc tool for columns 12.5 DIA
1005101	Puntale 90° attacco a codolo	1	Center 90 deg pull stud 12.5 DIA
	TOTALE	32	TOTAL

MINI KIT



Codice Code	Descrizione	Q.tà Q.ty	Description
1001201	Elemento lineare SJS 60x30x30	1	Linear SJS element 60x30x30mm
1001301	Elemento lineare SJS asolato 90x30x30	1	Linear adjustable SJS element 90x30x30mm
1002101	Piastra base 300x210x15 fori m8 passo 30mm	1	Tapped baseplate 300x210x15mm m8 30mm pitch
1003101	Giunto SJS doppio	1	Double quick SJS joint (joints 2 SJS holes)
1003102	Giunto SJS con attacco base filettato m24x1	1	Threaded m24x1 quick SJS joint
1003202	Bussola di fissaggio per fori SJS con vite m8	1	M8 screw with bush for SJS holes
1003205	Bussola per fissaggio piastre filettate con vite m8	1	M8 screw with bush locking plates
1003301	Adattatore m-m m8-m24x1	1	M8-m24x1 double male element
1003307	Base per elementi orientabili	2	M24x1 element for rotatable tops
1004101	Colonna d12.5 M-f m8-m8 l=15	1	M-f 12.5mm DIA m8 column l=15mm
1004105	Colonna porta appoggi con codolo l=30	1	12.5mm DIA column for pull stud top elements
1004151	Colonna registrabile d12.5 M-f m8-m8 / 50-70mm	1	12.5mm DIA adjustable column m-f m8-m8 / 50-70mm
1004251	Colonna registrabile 80-105 tpn	1	28mm DIA adjustable column m-f m24x1 / 80-105mm
1005104	Appoggio vertici 90°	1	Stop and support 90deg pull stud 12.5 DIA
1005105	Appoggio spigoli 180°	1	Stop and support 180deg pull stud 12.5 DIA
1005301	Appoggio spigoli 90°	2	Stop and support 90deg 28mm DIA
1005302	Appoggio vertici 180°	1	Stop and support 180deg 28mm DIA
1005202	Puntale 60°	1	Center 60deg 28mm DIA
1007101	Molla di pressione s	1	Small hold down spring
1007102	Molla di pressione l	1	Large hold down spring
1007104	Staffa l	1	Large clamp
1007105	Ghiera per staffa	1	M8 ring for clamps
1007107	Asta filettata m8 l=40	1	M8 threaded rod l=40mm
1007110	Asta ø6 l=60	2	Hold down stud l=60mm
1007201	Distanziatore regolabile 30	1	Adjustable spacer 30mm
1007202	Distanziatore regolabile 50	1	Adjustable spacer 50mm
1010102	Chiave esagonale a l mis. 2mm	1	Hexagon l tool 2mm
1010104	Chiave esagonale a l mis. 4mm	1	Hexagon l tool 4mm
1010201	Chiave a forchetta s=10mm	1	Forc tool for columns 12.5 DIA
	TOTALE	32	TOTAL

STARTER SET



Codice Code	Descrizione	Q.tà Q.ty	Description
1001201	Elemento lineare SJS 60x30x30	1	Linear SJS element 60x30x30mm
1001202	Elemento lineare SJS 90x30x30	1	Linear SJS element 90x30x30mm
1001301	Elemento lineare SJS asolato 90x30x30	1	Linear adjustable SJS element 90x30x30mm
1002101	Piastra base 300x210x15 fori m8 passo 30mm	1	Tapped baseplate 300x210x15mm m8 30mm pitch
1003101	Giunto SJS doppio	2	Double quick SJS joint (joints 2 SJS holes)
1003102	Giunto SJS con attacco base filettato m24x1	1	Threaded m24x1 quick SJS joint
1003202	Bussola di fissaggio per fori SJS con vite m8	1	M8 screw with bush for SJS holes
1003205	Bussola per fissaggio piastre filettate con vite m8	1	M8 screw with bush locking plates
1003307	Base per elementi orientabili	1	M24x1 element for rotatable tops
1004101	Colonna d12.5 M-f m8-m8 l=15	2	M-f 12.5mm DIA m8 column l=15mm
1004102	Colonna d12.5 M-f m8-m8 l=20	2	M-f 12.5mm DIA m8 column l=20mm
1004103	Colonna d12.5 M-f m8-m8 l=25	2	M-f 12.5mm DIA m8 column l=25mm
1004104	Colonna d12.5 M-f m8-m8 l=30	2	M-f 12.5mm DIA m8 column l=30mm
1004105	Colonna porta appoggi con codolo l=30	3	12.5mm DIA column for pull stud top elements
1004151	Colonna registrabile d12.5 M-f m8-m8 / 50-70mm	1	12.5mm DIA adjustable column m-f m8-m8 / 50-70mm
1005101	Puntale 90°	1	Center 90deg pull stud 12.5 DIA
1005102	Puntale 60°	1	Center 60deg pull stud 12.5 DIA
1005103	Appoggio piano	1	Flat pull stud 12.5 DIA
1005104	Appoggio vertici 90°	1	Stop and support 90deg pull stud 12.5 DIA
1005105	Appoggio spigoli 180°	2	Stop and support 180deg pull stud 12.5 DIA
1005106	Appoggio con sfera flottante spianata	1	Floating plane pull stud 12.5 DIA
1005107	Appoggio con magneti	1	Magnet plane pull stud 12.5 DIA
1005108	Appoggio v 90°	1	V block 90deg pull stud 12.5 DIA
1005109	Appoggio v 120°	2	V block 120deg pull stud 12.5 DIA
1005110	Riferimento laterale con spina regolabile	1	Side pin adjustable reference pull stud 12.5 DIA
1003103	Giunto SJS con filetto m8	1	M8 tapped quick with SJS joint

Codice Code	Descrizione	Q.tà Q.ty	Description
1005201	Puntale 90°	1	Center 90deg 28mm DIA
1005203	Appoggio piano	1	Flat 28mm DIA
1005306	Prisma a v 90°	1	V block full 90deg 30x30mm
1006201	Snodo 3d	1	28mm DIA 3d joint
1007101	Molla di pressione s	2	Small hold down spring
1007102	Molla di pressione l	1	Large hold down spring
1007103	Staffa s	3	Small clamp
1007104	Staffa l	1	Large clamp
1007105	Ghiera per staffa	3	M8 ring for clamps
1007106	Grano di contrasto m8	3	M8 threaded rod with floating plane
1007107	Asta filettata m8 l=40	2	M8 threaded rod l=40mm
1007108	Asta filettata m8 l=60	2	M8 threaded rod l=60mm
1007109	Asta filettata m8 l=80	1	M8 threaded rod l=80mm
1007110	Asta Ø6 l=60	2	Hold down stud l=60mm
1007111	Asta Ø6 l=90	1	Hold down stud l=90mm
1007201	Distanziatore regolabile 30	1	Adjustable spacer 30mm
1007501	Morsetto 0-25	1	Screw clamp 0-25mm with joint
1010102	Chiave esagonale a l mis. 2mm	1	Hexagon l tool 2mm
1010104	Chiave esagonale a l mis. 4mm	1	Hexagon l tool 4mm
1010106	Chiave esagonale a l mis. 6mm	1	Hexagon l tool 6mm
1010201	Chiave a forchetta s=10mm	1	Forc tool for columns 12.5 DIA
TOTALE		67	TOTAL

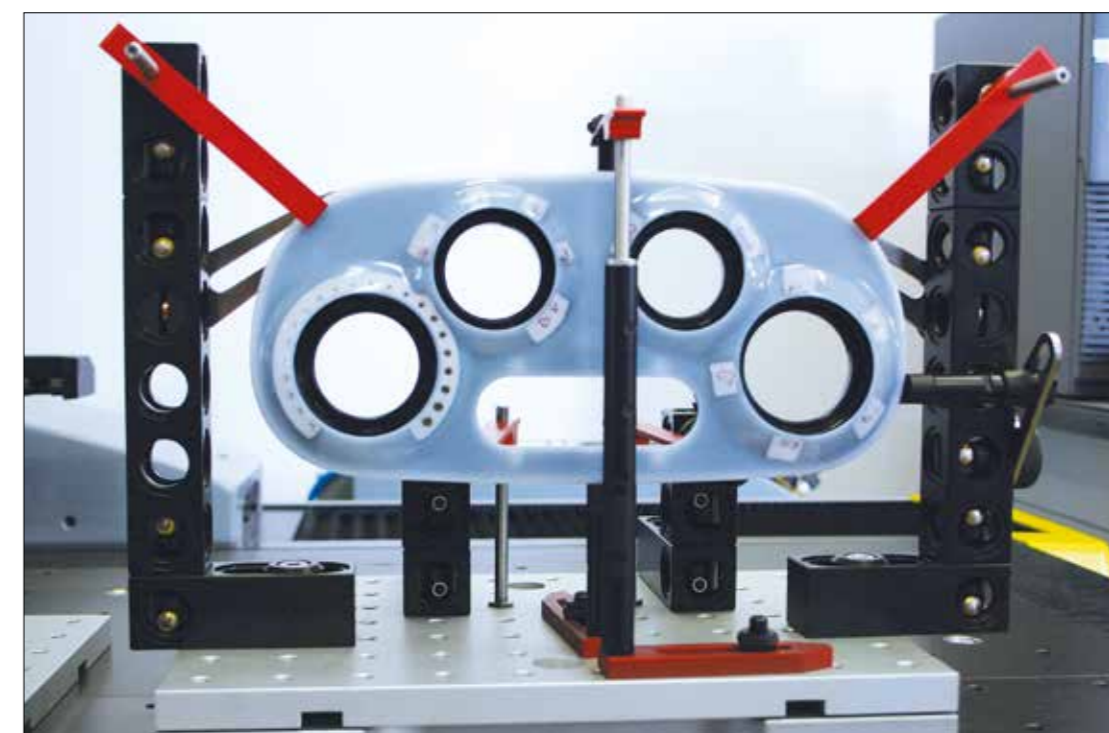


S SET KIT



Codice Code	Descrizione	Q.tà Q.ty	Description
1001201	Elemento lineare SJS 60x30x30	1	Linear SJS element 60x30x30mm
1001202	Elemento lineare SJS 90x30x30	1	Linear SJS element 90x30x30mm
1001301	Elemento lineare SJS asolato 90x30x30	1	Linear adjustable SJS element 90x30x30mm
1001302	Elemento lineare SJS asolato 120x30x30	1	Linear adjustable SJS element 120x30x30mm
1002101	Piastra base 300x210x15 fori m8 passo 30mm	1	Tapped baseplate 300x210x15mm m8 30mm pitch
1003101	Giunto SJS doppio	3	Double quick SJS joint (joints 2 SJS holes)
1003102	Giunto SJS con attacco base filettato m24x1	3	Threaded m24x1 quick SJS joint
1003103	Giunto SJS con filetto m8	1	M8 tapped quick SJS joint
1003202	Bussola di fissaggio per fori SJS con vite m8	2	M8 screw with bush for SJS holes
1003205	Bussola per fissaggio piastre filettate con vite m8	1	M8 screw with bush locking plates
1003307	Base per elementi orientabili	4	M24x1 element for rotatable tops
1004101	Colonna d12.5 M-f m8-m8 l=15	2	M-f 12.5mm DIA m8 column l=15mm
1004102	Colonna d12.5 M-f m8-m8 l=20	2	M-f 12.5mm DIA m8 column l=20mm
1004103	Colonna d12.5 M-f m8-m8 l=25	2	M-f 12.5mm DIA m8 column l=25mm
1004104	Colonna d12.5 M-f m8-m8 l=30	2	M-f 12.5mm DIA m8 column l=30mm
1004105	Colonna porta appoggi con codolo l=30	3	12.5mm DIA column for pull stud top elements
1004151	Colonna registrabile d12.5 M-f m8-m8 / 50-70mm	1	12.5mm DIA adjustable column m-f m8-m8 / 50-70mm
1004254	Colonna registrabile fine 55-70	1	28mm DIA micro adjustable column m-f m24x1 / 55-70mm
1005101	Puntale 90°	1	Center 90deg pull stud 12.5 DIA
1005102	Puntale 60°	1	Center 60deg pull stud 12.5 DIA
1005103	Appoggio piano	1	Flat pull stud 12.5 DIA
1005104	Appoggio vertici 90°	1	Stop and support 90deg pull stud 12.5 DIA
1005105	Appoggio spigoli 180°	2	Stop and support 180deg pull stud 12.5 DIA
1005106	Appoggio con sfera flottante spianata	1	Floating plane pull stud 12.5 DIA
1005107	Appoggio con magnete	1	Magnet plane pull stud 12.5 DIA

Codice Code	Descrizione	Q.tà Q.ty	Description
1005108	Appoggio v 90°	1	V block 90deg pull stud 12.5 DIA
1005109	Appoggio v 120°	2	V block 120deg pull stud 12.5 DIA
1005110	Riferimento laterale con spina regolabile	1	Side pin adjustable reference pull stud 12.5 DIA
1005201	Puntale 90°	1	Center 90deg 28mm DIA
1005203	Appoggio piano	2	Flat 28mm DIA
1005301	Appoggio spigoli 90°	1	Stop and support 90deg 28mm DIA
1005302	Appoggio vertici 180°	2	Stop and support 180deg 28mm DIA
1005306	Prisma a v 90°	1	V block full 90deg 30x30mm
1006101	Snodo 2d Ø12.5 Codolo+m8	1	12.5mm DIA 2d joint (needs 1003306 or 1004105)
1006201	Snodo 3d	1	28mm DIA 3d joint
1007101	Molla di pressione s	2	Small hold down spring
1007102	Molla di pressione l	1	Large hold down spring
1007103	Staffa s	3	Small clamp
1007104	Staffa l	1	Large clamp
1007105	Ghiera per staffa	3	M8 ring for clamps
1007106	Grano di contrasto m8	3	M8 threaded rod with floating plane
1007107	Asta filettata m8 l=40	3	M8 threaded rod l=40mm
1007108	Asta filettata m8 l=60	1	M8 threaded rod l=60mm
1007109	Asta filettata m8 l=80	1	M8 threaded rod l=80mm
1007110	Asta Ø6 l=60	2	Hold down stud l=60mm
1007111	Asta Ø6 l=90	1	Hold down stud l=90mm
1007201	Distanziatore regolabile 30	2	Adjustable spacer 30mm
1007501	Morsetto 0-25	1	Screw clamp 0-25mm with joint
1010102	Chiave esagonale a l mis. 2mm	1	Hexagon l tool 2mm
1010104	Chiave esagonale a l mis. 4mm	1	Hexagon l tool 4mm
1010106	Chiave esagonale a l mis. 6mm	1	Hexagon l tool 6mm
1010201	Chiave a forchetta s=10mm	2	Forc tool for columns 12.5 DIA
TOTALE		82	TOTAL



STANDARD SET



Codice Code	Descrizione	Q.tà Qty	Description
100101	Elemento lineare SJS 40x30x20	1	Linear SJS element 40x30x20mm
100102	Elemento lineare SJS 90x30x20	2	Linear SJS element 90x30x30mm
100103	Elemento lineare SJS 120x30x20	1	Linear SJS element 120x30x30mm
1001301	Elemento lineare SJS asolito 90x30x30	2	Linear adjustable SJS element 90x30x30mm
1002101	Plancia base 30x30x10 in 180° con 2 fori	1	Topped baseplate 30x30x10mm with 2 holes plate
1003101	Giunto SJS doppio	6	Double quick SJS joint (joins 2 SJS holes)
1003102	Giunto SJS con vite M8	4	Threaded quick SJS joint
1003103	Giunto SJS con filetto M8	2	M8 topped quick SJS joint
1003104	Elemento di fissaggio per fori SJS con vite M8	4	M8 screw with bush for SJS holes
1003205	Bussola per fissaggio piastre filettate con vite M8	1	M8 screw with bush locking plates
1003301	Adattatore M8-M8-M8-M8	2	M8-M8-M8-M8 double adapter
1003306	Base per appoggi con codolo	1	M24x1 adapter for pull stud top elements
1003307	Base per elementi regolabili	4	M24x1 element for adjustable legs
1004101	Colonna d12.5 M-F m8-m8 l=15	2	M-F 12.5mm DIA m8 column l=15mm
1004102	Colonna d12.5 M-F m8-m8 l=25	2	M-F 12.5mm DIA m8 column l=25mm
1004103	Colonna d12.5 M-F m8-m8 l=30	2	M-F 12.5mm DIA m8 column l=30mm
1004104	Colonna porta appoggi con codolo l=30	3	12.5mm DIA column for pull stud top elements
1004105	Colonna regolabile d12.5 M-F m8-m8 l=80-105mm	1	12.5mm DIA adjustable column m-f m8-m8 / 80-105mm
1004201	Colonna registrabile 80-105 tpn	1	28mm DIA adjustable column m-f m24x1 / 80-105mm
1004202	Colonna registrabile 105-130 tpn	1	28mm DIA adjustable column m-f m24x1 / 105-130mm
1004203	Colonna registrabile 130-155 tpn	1	28mm DIA adjustable column m-f m24x1 / 130-155mm
1004204	Colonna registrabile 155-180 tpn	1	28mm DIA adjustable column m-f m24x1 / 155-180mm
1005101	Puntale 90°	2	Center 90deg pull stud 12.5 DIA
1005102	Puntale 180°	1	Center 180deg pull stud 12.5 DIA

Codice Code	Descrizione	Q.tà Qty	Description
1005103	Appoggio piano	1	Flat pull stud 12.5 DIA
1005104	Appoggio vertici 90°	1	Stop and support 90deg pull stud 12.5 DIA
1005105	Appoggio spigoli 180°	4	Stop and support 180deg pull stud 12.5 DIA
1005106	Appoggio con sfera flottante spianata	1	Floating plane pull stud 12.5 DIA
1005107	Appoggio con magnete	1	Magnet plane pull stud 12.5 DIA
1005108	Appoggio v 90°	2	V block 90deg pull stud 12.5 DIA
1005109	Appoggio v 120°	2	V block 120deg pull stud 12.5 DIA
1005110	Riferimento laterale con spina regolabile	1	Side pin adjustable reference pull stud 12.5 DIA
1005201	Puntale 90°	1	Center 90deg 28mm DIA
1005203	Appoggio piano	1	Flat 28mm DIA
1005301	Appoggio spigoli 90°	1	Stop and support 90deg 28mm DIA
1005302	Appoggio vertici 180°	2	Stop and support 180deg 28mm DIA
1005304	Prisma a v 90° 2 ai centrali	1	V block two central 90deg 30x30mm
1005501	Cilindro di riferimento Ø2.5 Inox per M8	1	Reference pin for M8 thread, Ø2.5 DIA holes
1005502	Cilindro di riferimento Ø3.2 Inox per M8	1	Reference pin for M8 thread, Ø3.2 DIA holes
1005503	Cilindro di riferimento Ø4.2 Inox per M8	1	Reference pin for M8 thread, Ø4.2 DIA holes
1005504	Cilindro di riferimento Ø5 inox per M8	1	Reference pin for M8 thread, Ø5 DIA holes
1005505	Cilindro di riferimento Ø6 inox per M8	1	Reference pin for M8 thread, Ø6 DIA holes
1005506	Cilindro di riferimento Ø6.8 Inox per M8	1	Reference pin for M8 thread, Ø6.8 DIA holes
1005507	Cilindro di riferimento Ø8 inox per M8	1	Reference pin for M8 thread, Ø8 DIA holes
1005508	Cilindro di riferimento Ø8.5 Inox per M8	1	Reference pin for M8 thread, Ø8.5 DIA holes
1005509	Cilindro di riferimento Ø10 inox per M8	1	Reference pin for M8 thread, Ø10 DIA holes
1005510	Cilindro di riferimento Ø10.2 Inox per M8	1	Reference pin for M8 thread, Ø10.2 thread holes
1005511	Cilindro di riferimento Ø12 inox per M8	1	Reference pin for M8 thread, Ø12 DIA holes
1006201	Snodo 3d	1	28mm DIA 3d joint
1007101	Molla di pressione s	2	Small hold down spring
1007102	Molla di pressione l	1	Large hold down spring
1007103	Staffa s	3	Small clamp
1007104	Staffa l	1	Large clamp
1007105	Ghiera per staffa	4	M8 ring for clamps
1007106	Grano di contrasto m8	4	M8 threaded rod with floating plane
1007107	Asta filettata m8 l=40	2	M8 threaded rod l=40mm
1007108	Asta filettata m8 l=60	2	M8 threaded rod l=60mm
1007110	Asta Ø6 l=60	2	Hold down stud l=60mm
1007111	Asta Ø6 l=90	1	Hold down stud l=90mm
1007201	Distanziatore regolabile 30	2	Adjustable spacer 30mm
1007202	Distanziatore regolabile 50	1	Adjustable spacer 50mm
1007303	Micro morsa rapida 30x30	1	Quick micro vise 30x30mm
1007502	Morsetto 0-50	1	Screw clamp 0-50mm with joint
1010101	Chiave esagonale a t mis. 4mm	1	Hexagon t tool 4mm
1010102	Chiave esagonale a l mis. 2mm	1	Hexagon l tool 2mm
1010103	Chiave esagonale a l mis. 2,5mm	1	Hexagon l tool 2,5mm
1010104	Chiave esagonale a l mis. 4mm	1	Hexagon l tool 4mm
1010105	Chiave esagonale a l mis. 5mm	1	Hexagon l tool 5mm
1010106	Chiave esagonale a l mis. 6mm	1	Hexagon l tool 6mm
1010201	Chiave a forchetta s=10mm	2	Forc tool for columns 12.5 DIA
TOTALE		113	TOTAL

ADVANCED KIT SET



Co.dice Code	Descrizione	Q.tà Q.ty	Description
1001201	Elemento lineare SJS 90x30x30	4	Linear SJS element 90x30x30mm
1001202	Elemento lineare SJS 90x30x30	6	Linear SJS element 90x30x30mm
1001203	Elemento lineare SJS 120x30x30	4	Linear SJS element 120x30x30mm
1001204	Elemento lineare SJS 150x30x30	3	Linear SJS element 150x30x30mm
1001301	Elemento lineare SJS regolabile 120x30x30	4	Linear adjustable SJS element 120x30x30mm
1001302	Elemento lineare SJS isolato 120x30x30	2	Linear adjustable SJS element 120x30x30mm
1002101	Placche base 300x210x15mm fori con passo 30mm	4	Tapped baseplate 300x210x15mm with 30mm pitch
1002201	Base di riferimento per cambio rapido future	1	Center plate for tapped baseplates 300x210x15mm
1003101	Giunto SJS doppio	12	Double quick SJS joint (2x6x12mm)
1003102	Giunto SJS con attacco base filettato m24x1	8	Threaded m24x1 quick SJS joint
1003103	Giunto SJS con attacco m8	4	M8-tapped quick SJS joint
1003202	Bussola di fissaggio per fori SJS con vite m8	12	M8 screw with bush for SJS holes
1003302	Elemento per appoggio piano: 10x10x10 con vite m8	4	M8-screw with handle-clamp pin
1003301	Adattatore m-m m8-m24x1	6	M8-m24x1 double male element
1003402	Base per elementi orientabili	9	M24x1 element for rotatable tops
1004101	Colonna d12.5 M-f m8-m8 l=20	4	M-f 12.5mm DIA m8-column l=20mm
1004102	Colonna d12.5 M-f m8-m8 l=20	3	M-f 12.5mm DIA m8-column l=20mm
1004103	Colonna d12.5 M-f m8-m8 l=30	4	M-f 12.5mm DIA m8-column l=30mm
1004104	Colonna d12.5 M-f m8-m8 l=30	3	M-f 12.5mm DIA m8-column l=30mm
1004105	Colonna porta appoggi con vite m8	4	12.5mm DIA column for pull stud top element
1004101	Colonna registrabile d12.5 M-f m8-m8 / 50-70mm	2	12.5mm DIA adjustable column m-f m8-m8 / 50-70mm
1004201	Colonna registrabile 20-100 tpm	2	20mm DIA adjustable column m-f m24x1 / 20-100mm
1004202	Colonna registrabile 105-130 tpm	2	28mm DIA adjustable column m-f m24x1 / 105-130mm
1004203	Colonna registrabile 120-130 tpm	2	20mm DIA adjustable column m-f m24x1 / 120-130mm

Codice Code	Descrizione	Q.ty	Description
1004254	Colonna registrabile fine 55-70	2	28mm DIA micro adjustable column m-f m24x1 / 55-70mm
1005101	Puntale 90°	2	Center 90deg pull stud 12.5 DIA
1005102	Puntale 60°	1	Center 60deg pull stud 12.5 DIA
1005103	Appoggio piano	1	Flat pull stud 12.5 DIA
1005104	Appoggio vertici 90°	1	Stop and support 90deg pull stud 12.5 DIA
1005105	Appoggio spigoli 180°	4	Stop and support 180deg pull stud 12.5 DIA
1005106	Appoggio con sfera flottante spianata	1	Floating plane pull stud 12.5 DIA
1005107	Appoggio con magnete	1	Magnet plane pull stud 12.5 DIA
1005108	Appoggio v 90°	2	V block 90deg pull stud 12.5 DIA
1005109	Appoggio v 120°	2	V block 120deg pull stud 12.5 DIA
1005110	Riferimento laterale con spina regolabile	1	Side pin adjustable reference pull stud 12.5 DIA
1005201	Puntale 90°	1	Center 90deg 28mm DIA
1005202	Puntale 60°	1	Center 60deg 28mm DIA
1005203	Appoggio piano	3	Flat 28mm DIA
1005301	Appoggio spigoli 90°	1	Stop and support 90deg 28mm DIA
1005302	Appoggio vertici 180°	4	Stop and support 180deg 28mm DIA
1005303	Prisma a v 90° 1 ala centrale	1	V block one central 90deg 30x30mm
1005305	Prisma a v 90° 2 ali esterne	2	V block two side central 90deg 30x30mm
1005401	Sfera di riferimento Ø12 inox	1	12mm DIA inox ball
1005403	Sfera di riferimento Ø15 inox	1	15mm DIA inox ball
1005501	Cilindro di riferimento Ø2.5 inox per M8	2	Reference pin for M8 thread, Ø2.5 DIA holes
1005502	Cilindro di riferimento Ø3.2 inox per M8	2	Reference pin for M8 thread, Ø3.2 DIA holes
1005503	Cilindro di riferimento Ø4.2 inox per M8	2	Reference pin for M8 thread, Ø4.2 DIA holes
1005504	Cilindro di riferimento Ø5 inox per M8	2	Reference pin for M8 thread, Ø5 DIA holes
1005505	Cilindro di riferimento Ø6 inox per M8	2	Reference pin for M8 thread, Ø6 DIA holes
1005506	Cilindro di riferimento Ø6.8 inox per M8	2	Reference pin for M8 thread, Ø6.8 DIA holes
1005507	Cilindro di riferimento Ø8 inox per M8	2	Reference pin for M8 thread, Ø8 DIA holes
1005508	Cilindro di riferimento Ø8.5 inox per M8	2	Reference pin for M8 thread, Ø8.5 DIA holes
1005509	Cilindro di riferimento Ø10 inox per M8	2	Reference pin for M8 thread, Ø10 DIA holes
1005510	Cilindro di riferimento Ø10.2 inox per M8	2	Reference pin for M8 thread, Ø10.2 DIA holes
1005511	Cilindro di riferimento Ø12 inox per M8	2	Reference pin for M8 thread, Ø12 DIA holes
1006101	Snodo 2d Ø12.5 Codolo+m8	1	12.5mm DIA 2d joint (needs 1003306 or 1004105)
1006102	Snodo 2d Ø28	1	28mm DIA 2d joint (needs 1003307)
1006201	Snodo 3d	1	28mm DIA 3d joint
1007101	Molla di pressione s	6	Small hold down spring
1007102	Molla di pressione l	2	Large hold down spring
1007103	Staffa s	6	Small clamp
1007104	Staffa l	2	Large clamp
1007105	Ghiera per staffa	6	M8 ring for clamps
1007106	Grano di contrasto m8	6	M8 threaded rod with floating plane
1007107	Asta filettata m8 l=40	2	M8 threaded rod l=40mm
1007108	Asta filettata m8 l=60	2	M8 threaded rod l=60mm
1007109	Asta filettata m8 l=80	2	M8 threaded rod l=80mm
1007110	Asta Ø6 l=60	6	Hold down stud l=60mm
1007111	Asta Ø6 l=90	2	Hold down stud l=90mm
1007201	Distanziatore regolabile 30	6	Adjustable spacer 30mm
1007202	Distanziatore regolabile 50	2	Adjustable spacer 50mm
1007303	Micro morsa rapida 30x30	1	Quick microvise 30x30mm

Codice Code	Descrizione	Q.tà Q.ty	Description
1007304	Kit 2+2 ganasce lavorabili per 1007303	1	Customizable jaws for 1007303
1007502	Morsetto 0-50	1	Screw clamp 0-50mm with joint
1010101	Chiave esagonale a l.mts. 4mm	1	Hexagon t tool 4mm
1010102	Chiave esagonale a l.mts. 2,5mm	1	Hexagon t tool 2,5mm
1010103	Chiave esagonale a l.mts. 2,5mm	1	Hexagon t tool 2,5mm
1010104	Chiave esagonale a l.mts. 4mm	1	Hexagon t tool 4mm
1010105	Chiave esagonale a l.mts. 6mm	1	Hexagon t tool 6mm
1010204	Chiave a filettatura 9-10mm	2	For: tool for columns 12,5-13A
	TOTALE	224	TOTAL



XL SET KIT



Codice Code	Descrizione	Q.tà Q.ty	Description
1001102	Placca SJS 300x100	2	300x100mm SJS plate
1001201	Elemento lineare SJS 60x30x30	6	Linear SJS element 60x30x30mm
1001202	Elemento lineare SJS 90x30x30	3	Linear SJS element 90x30x30mm
1001203	Elemento lineare SJS 120x30x30	4	Linear SJS element 120x30x30mm
1001204	Elemento lineare SJS 150x30x30	4	Linear SJS element 150x30x30mm
1001301	Elemento lineare SJS assialato 90x30x30	6	Linear adjustable SJS element 90x30x30mm
1001302	Elemento lineare SJS assialato 120x30x30	4	Linear adjustable SJS element 120x30x30mm
1001301	Riferimento angolare 30x30x30 45°	2	Angular SJS reference 30x30x30mm 45 deg
1001701	Profilo 30x30 con testate SJS 60x30x30 1-200	2	30x30 bar with SJS heads 60x30x30 1-200mm
1001702	Profilo 30x30 con testate SJS 60x30x30 1-300	2	30x30 bar with SJS heads 60x30x30 1-300mm
1001703	Profilo 30x30 con testate SJS 60x30x30 1-400	2	30x30 bar with SJS heads 60x30x30 1-400mm
1001704	Profilo 30x30 con testate SJS 60x30x30 1-600	2	30x30 bar with SJS heads 60x30x30 1-600mm
1002201	Placca base 300x100mm con passo 30mm	3	Tapped baseplate 300x100mm with 30mm pitch
1002201	Base di riferimento per cambio rapido fileture	1	Center plate for tapped baseplates 300x100x15mm
1003101	Giunto SJS doppio	20	Double quick SJS joint (plate 2 SJS holes)
1003102	Giunto SJS con attacco base filettato m2-4x1	15	Threaded m2-4x1 quick SJS joint
1003103	Giunto SJS con filettato m8	10	m8 tapped quick SJS joint
1003202	Bussola di fissaggio per fori SJS con vite m8	15	m8 screw with bush for SJS holes
1003203	Bussola di fissaggio per fori SJS con vite m6	10	m6 screw with bush for SJS holes
1003205	Bussola per fissaggio piastre filettate con vite m8	6	m8 screw with bush locking plates
1003301	Adattatore m-m m2-4x1	10	m2-4x1 double male element
1003302	Adattatore m-m m2-4x1	1	m2-4x1 double male element
1003303	Chiusa passante m8	1	Threaded ring m8x1 element
1003304	Chiusa passante m8	1	Threaded ring m8x1 element
1003305	Adattatore 1-femmina m2-4x1-m8	1	m2-4x1 double female element

Codice Code	Descrizione	Q.tà Q.ty	Description
1003306	Base per appoggi con codolo	3	M24x1 adapter for pull stud top elements
1003307	Base per elementi orientabili	10	M24x1 element for rotatable tops
1003401	Piastrina di unione per piastre filettate	10	Tapped baseplates connection element with screw
1003402	Tassello m6 per profili con testate SJS 30x30 e 60x60	15	M6 tapped element for 30x30 and 60x60 bars
1004101	Colonna d12.5 M-f m8-m8 l=15	6	M-f 12.5mm DIA m8 column l=15mm
1004102	Colonna d12.5 M-f m8-m8 l=20	6	M-f 12.5mm DIA m8 column l=20mm
1004103	Colonna d12.5 M-f m8-m8 l=25	6	M-f 12.5mm DIA m8 column l=25mm
1004104	Colonna d12.5 M-f m8-m8 l=30	6	M-f 12.5mm DIA m8 column l=30mm
1004105	Colonna porta appoggi con codolo l=30	6	12.5mm DIA column for pull stud top elements
1004151	Colonna registrabile d12.5 M-f m8-m8 / 50-70mm	5	12.5mm DIA adjustable column m-f m8-m8 / 50-70mm
1004251	Colonna registrabile 80-105 tpn	3	28mm DIA adjustable column m-f m24x1 / 80-105mm
1004252	Colonna registrabile 105-130 tpn	3	28mm DIA adjustable column m-f m24x1 / 105-130mm
1004253	Colonna registrabile 130-155 tpn	3	28mm DIA adjustable column m-f m24x1 / 130-155mm
1004254	Colonna registrabile fine 55-70	3	28mm DIA micro adjustable column m-f m24x1 / 55-70mm
1005101	Puntale 90°	2	Center 90deg pull stud 12.5 DIA
1005102	Puntale 60°	1	Center 60deg pull stud 12.5 DIA
1005103	Appoggio piano	2	Flat pull stud 12.5 DIA
1005104	Appoggio vertici 90°	2	Stop and support 90deg pull stud 12.5 DIA
1005105	Appoggio spigoli 180°	6	Stop and support 180deg pull stud 12.5 DIA
1005106	Appoggio con sfera flottante spianata	3	Floating plane pull stud 12.5 DIA
1005107	Appoggio con magnete	2	Magnet plane pull stud 12.5 DIA
1005108	Appoggio v 90°	4	V block 90deg pull stud 12.5 DIA
1005109	Appoggio v 120°	4	V block 120deg pull stud 12.5 DIA
1005110	Riferimento laterale con spina regolabile	2	Side pin adjustable reference pull stud 12.5 DIA
1005201	Puntale 90°	1	Center 90deg 28mm DIA
1005202	Puntale 60°	1	Center 60deg 28mm DIA
1005203	Appoggio piano	5	Flat 28mm DIA
1005301	Appoggio spigoli 90°	2	Stop and support 90deg 28mm DIA
1005302	Appoggio vertici 180°	6	Stop and support 180deg 28mm DIA
1005303	Prisma a v 90° 1 ala centrale	1	V block one central 90deg 30x30mm
1005304	Prisma a v 90° 2 ali centrali	1	V block two central 90deg 30x30mm
1005305	Prisma a v 90° 2 ali esterne	1	V block two side central 90deg 30x30mm
1005306	Prisma a v 90°	1	V block full 90deg 30x30mm
1005401	Sfera di riferimento Ø12 inox	1	12mm DIA inox ball
1005403	Sfera di riferimento Ø15 inox	1	15mm DIA inox ball
1005501	Cilindro di riferimento Ø2.5 Inox per M8	4	Reference pin for M8 thread, Ø2.5 DIA holes
1005502	Cilindro di riferimento Ø3.2 Inox per M8	4	Reference pin for M8 thread, Ø3.2 DIA holes
1005503	Cilindro di riferimento Ø4.2 Inox per M8	4	Reference pin for M8 thread, Ø4.2 DIA holes
1005504	Cilindro di riferimento Ø5 inox per M8	4	Reference pin for M8 thread, Ø5 DIA holes
1005505	Cilindro di riferimento Ø6 inox per M8	4	Reference pin for M8 thread, Ø6 DIA holes
1005506	Cilindro di riferimento Ø6.8 Inox per M8	4	Reference pin for M8 thread, Ø6.8 DIA holes
1005507	Cilindro di riferimento Ø8 inox per M8	4	Reference pin for M8 thread, Ø8 DIA holes
1005508	Cilindro di riferimento Ø8.5 Inox per M8	4	Reference pin for M8 thread, Ø8.5 DIA holes
1005509	Cilindro di riferimento Ø10 inox per M8	4	Reference pin for M8 thread, Ø10 DIA holes
1005510	Cilindro di riferimento Ø10.2 Inox per M8	4	Reference pin for M8 thread, Ø10.2 DIA holes
1005511	Cilindro di riferimento Ø12 inox per M8	4	Reference pin for M8 thread, Ø12 DIA holes
1006101	Snodo 2d Ø12.5 Codolo+m8	2	12.5mm DIA 2d joint (needs 1003306 or 1004105)
1006102	Snodo 2d Ø28	2	28mm DIA 2d joint (needs 1003307)

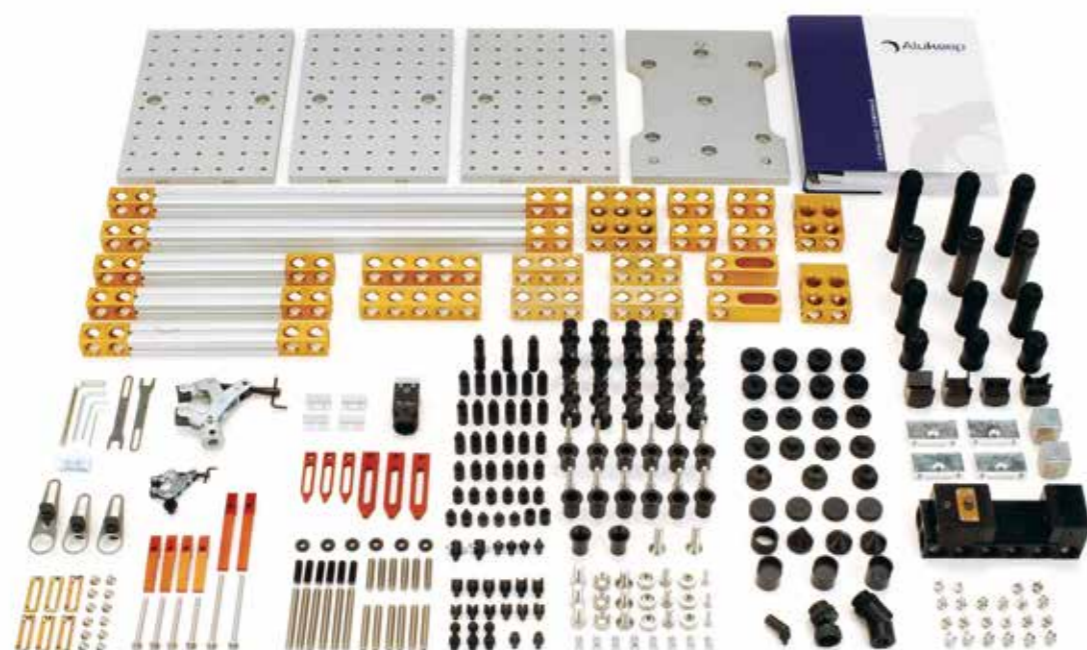
Codice Code	Descrizione	Q.tà Q.ty	Description
1006201	Snodo 3d	3	28mm DIA 3d joint
1007101	Molla di pressione s	10	Small hold down spring
1007102	Molla di pressione l	4	Large hold down spring
1007103	Staffa s	9	Small clamp
1007104	Staffa l	2	Large clamp
1007105	Ghiera per staffa	10	M8 ring for clamps
1007106	Grano di contrasto m8	10	M8 threaded rod with floating plane
1007107	Asta filettata m8 l=40	3	M8 threaded rod l=40mm
1007108	Asta filettata m8 l=60	3	M8 threaded rod l=60mm
1007109	Asta filettata m8 l=80	3	M8 threaded rod l=80mm
1007110	Asta Ø6 l=60	10	Hold down stud l=60mm
1007111	Asta Ø6 l=90	4	Hold down stud l=90mm
1007201	Distanziatore regolabile 30	10	Adjustable spacer 30mm
1007202	Distanziatore regolabile 50	4	Adjustable spacer 50mm
1007303	Micro morsa rapida 30x30	2	Quick microvise 30x30mm
1007304	Kit 2+2 ganasce lavorabili per 1007303	1	Customizable jaws for 1007303
1007501	Morsetto 0-25	1	Screw clamp 0-25mm with joint
1007502	Morsetto 0-50	1	Screw clamp 0-50mm with joint
1010101	Chiave esagonale a t mis. 4mm	1	Hexagon t tool 4mm
1010102	Chiave esagonale a l mis. 2mm	1	Hexagon l tool 2mm
1010103	Chiave esagonale a l mis. 2,5mm	1	Hexagon l tool 2,5mm
1010104	Chiave esagonale a l mis. 4mm	1	Hexagon l tool 4mm
1010105	Chiave esagonale a l mis. 5mm	1	Hexagon l tool 5mm
1010106	Chiave esagonale a l mis. 6mm	1	Hexagon l tool 6mm
1010201	Chiave a forchetta s=10mm	2	Forc tool for columns 12.5 DIA
TOTALE		420	TOTAL

Su richiesta - On request:

Trolley	Carrello porta attrezzi a 6 cassetti senza divisori interni	1	Elements storage trolley with 6 drawers without internal spacers
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XXL SET KIT



Codice Code	Descrizione	Q.tà Q.ty	Description
1001197	Placca SJS 60x30x30	2	60x30x30 plate
1001201	Elemento lineare SJS 60x30x30	8	Linear SJS element 60x30x30mm
1001202	Elemento lineare SJS 120x30x30	12	Linear SJS element 120x30x30mm
1001203	Elemento lineare SJS 120x30x30	5	Linear SJS element 120x30x30mm
1001204	Elemento lineare SJS 180x30x30	4	Linear SJS element 180x30x30mm
1001301	Elemento lineare SJS assolato 60x30x30	8	Linear adjustable SJS element 60x30x30mm
1001302	Elemento lineare SJS assolato 120x30x30	4	Linear adjustable SJS element 120x30x30mm
1001501	Riferimento angolare 30x30x30 45°	4	Angular SJS reference 30x30x30mm 45deg
1001701	Profilo 30x30 con testate SJS 60x30x30 l=300	2	30x30 bar with SJS heads 60x30x30 l=300mm
1001703	Profilo 30x30 con testate SJS 60x30x30 l=600	2	30x30 bar with SJS heads 60x30x30 l=600mm
1001704	Profilo 30x30 con testate SJS 60x30x30 l=900	2	30x30 bar with SJS heads 60x30x30 l=900mm
1002201	Placca base 300x210x10 con vite passo 20mm	10	Tapped baseplate 300x210x10mm with 20mm pitch
1002201	Base di riferimento per cambio rapido fixture	1	Center plate for tapped baseplates 300x210x15mm
1002201	Chiodo SJS doppio	20	Double quick SJS pin (plate 2 SJS holes)
1003102	Giunto SJS con attacco base filettato m2.4x1	20	Threaded m2.4x1 quick SJS joint
1003103	Chiodo SJS con vite m8	10	M8 tapped quick SJS pin
1003202	Bussola di fissaggio per fori SJS con vite m8	20	M8 screw with bush for SJS holes
1003203	Chiodo di fissaggio per fori SJS con vite m8	10	M8 screw with bush for SJS holes
1003205	Bussola per fissaggio piastre filettate con vite m8	11	M8 screw with bush locking plates
1003301	Adattatore m-m m2.4x1	10	M2.4x1 double male element
1003302	Adattatore m-m m2.4x1	1	M2.4x1 double male element
1003303	Chiodo passante m8	1	Threaded ring m8x1 element
1003304	Chiodo passante m8	1	Threaded ring m8x1 element
1003305	Adattatore f-f m2.4x1-m8	1	M2.4x1 double female element

Codice Code	Descrizione	Q.tà Q.ty	Description
1003306	Base per appoggi con codolo	6	M24x1 adapter for pull stud top elements
1003307	Base per elementi orientabili	15	M24x1 element for rotatable tops
1003401	Piastrina di unione per piastre filettate	20	Tapped baseplates connection element with screw
1003402	Tassello m6 per profili con testate SJS 30x30 e 60x60	15	M6 tapped element for 30x30 and 60x60 bars
1004101	Colonna d12.5 M-f m8-m8 l=15	12	M-f 12.5mm DIA m8 column l=15mm
1004102	Colonna d12.5 M-f m8-m8 l=20	12	M-f 12.5mm DIA m8 column l=20mm
1004103	Colonna d12.5 M-f m8-m8 l=25	12	M-f 12.5mm DIA m8 column l=25mm
1004104	Colonna d12.5 M-f m8-m8 l=30	12	M-f 12.5mm DIA m8 column l=30mm
1004105	Colonna porta appoggi con codolo l=30	9	12.5mm DIA column for pull stud top elements
1004151	Colonna registrabile d12.5 M-f m8-m8 / 50-70mm	8	12.5mm DIA adjustable column m-f m8-m8 / 50-70mm
1004251	Colonna registrabile 80-105 tpn	5	28mm DIA adjustable column m-f m24x1 / 80-105mm
1004252	Colonna registrabile 105-130 tpn	5	28mm DIA adjustable column m-f m24x1 / 105-130mm
1004253	Colonna registrabile 130-155 tpn	5	28mm DIA adjustable column m-f m24x1 / 130-155mm
1004254	Colonna registrabile fine 55-70	5	28mm DIA micro adjustable column m-f m24x1 / 55-70mm
1005101	Puntale 90°	4	Center 90deg pull stud 12.5 DIA
1005102	Puntale 60°	2	Center 60deg pull stud 12.5 DIA
1005103	Appoggio piano	4	Flat pull stud 12.5 DIA
1005104	Appoggio vertici 90°	4	Stop and support 90deg pull stud 12.5 DIA
1005105	Appoggio spigoli 180°	12	Stop and support 180deg pull stud 12.5 DIA
1005106	Appoggio con sfera flottante spianata	6	Floating plane pull stud 12.5 DIA
1005107	Appoggio con magnete	2	Magnet plane pull stud 12.5 DIA
1005108	Appoggio v 90°	4	V block 90deg pull stud 12.5 DIA
1005109	Appoggio v 120°	6	V block 120deg pull stud 12.5 DIA
1005110	Riferimento laterale con spina regolabile	4	Side pin adjustable reference pull stud 12.5 DIA
1005201	Puntale 90°	2	Center 90deg 28mm DIA
1005202	Puntale 60°	2	Center 60deg 28mm DIA
1005203	Appoggio piano	8	Flat 28mm DIA
1005206	Appoggio con calotta in acciaio	1	Steel sphere top element 28mm DIA
1005301	Appoggio spigoli 90°	3	Stop and support 90deg 28mm DIA
1005302	Appoggio vertici 180°	9	Stop and support 180deg 28mm DIA
1005303	Prisma a v 90° 1 ala centrale	1	V block one central 90deg 30x30mm
1005304	Prisma a v 90° 2 ali centrali	1	V block two central 90deg 30x30mm
1005305	Prisma a v 90° 2 ali esterne	1	V block two side central 90deg 30x30mm
1005306	Prisma a v 90°	1	V block full 90deg 30x30mm
1005401	Sfera di riferimento Ø12 inox	2	12mm DIA inox ball
1005403	Sfera di riferimento Ø15 inox	2	15mm DIA inox ball
1005501	Cilindro di riferimento Ø2.5 Inox per M8	4	Reference pin for M8 thread, Ø2.5 DIA holes
1005502	Cilindro di riferimento Ø3.2 Inox per M8	4	Reference pin for M8 thread, Ø3.2 DIA holes
1005503	Cilindro di riferimento Ø4.2 Inox per M8	4	Reference pin for M8 thread, Ø4.2 DIA holes
1005504	Cilindro di riferimento Ø5 Inox per M8	4	Reference pin for M8 thread, Ø5 DIA holes
1005505	Cilindro di riferimento Ø6 Inox	4	Reference pin for M8 thread, Ø6 DIA holes
1005506	Cilindro di riferimento Ø6.8 Inox per M8	4	Reference pin for M8 thread, Ø6.8 DIA holes
1005507	Cilindro di riferimento Ø8 Inox	4	Reference pin for M8 thread, Ø8 DIA holes
1005508	Cilindro di riferimento Ø8.5 Inox per M8	4	Reference pin for M8 thread, Ø8.5 DIA holes
1005509	Cilindro di riferimento Ø10 Inox	4	Reference pin for M8 thread, Ø10 DIA holes
1005510	Cilindro di riferimento Ø10.2 Inox per M8	4	Reference pin for M8 thread, Ø10.2 DIA holes
1005511	Cilindro di riferimento Ø12 inox	4	Reference pin for M8 thread, Ø12 DIA holes
1006101	Snodo 2d Ø12.5 Codolo + m8	3	12.5mm DIA 2d joint (needs 1003306 or 1004105)

KIT MULTIFUNZIONE MULTINEEDLE KIT



Codice Code	Descrizione	Q.tà Q.ty	Description
1006102	Snodo 2d Ø28	3	28mm DIA 2d joint (needs 1003307)
1006201	Snodo 3d	3	28mm DIA 3d joint
1007101	Molla di pressione s	15	Small hold down spring
1007102	Molla di pressione l	5	Large hold down spring
1007103	Staffa s	12	Small clamp
1007104	Staffa l	3	Large clamp
1007105	Ghiera per staffa	15	M8 ring for clamps
1007106	Grano di contrasto m8	15	M8 threaded rod with floating plane
1007107	Asta filettata m8 l=40	6	M8 threaded rod l=40mm
1007108	Asta filettata m8 l=60	6	M8 threaded rod l=60mm
1007109	Asta filettata m8 l=80	6	M8 threaded rod l=80mm
1007110	Asta Ø6 l=60	15	Hold down stud l=60mm
1007111	Asta Ø6 l=90	5	Hold down stud l=90mm
1007201	Distanziatore regolabile 30	12	Adjustable spacer 30mm
1007202	Distanziatore regolabile 50	6	Adjustable spacer 50mm
1007303	Micro morsa rapida 30x30	2	Quick microvise 30x30mm
1007304	Kit 2+2 ganasce lavorabili per 1007303	2	Customizable jaws for 1007203
1007501	Morsetto 0-25	2	Screw clamp 0-25mm with joint
1007502	Morsetto 0-50	2	Screw clamp 0-50mm with joint
1010101	Chiave esagonale a t mis. 4mm	1	Hexagon t tool 4mm
1010102	Chiave esagonale a l mis. 2mm	1	Hexagon l tool 2mm
1010103	Chiave esagonale a l mis. 2,5mm	1	Hexagon l tool 2,5mm
1010104	Chiave esagonale a l mis. 4mm	1	Hexagon l tool 4mm
1010105	Chiave esagonale a l mis. 5mm	1	Hexagon l tool 5mm
1010106	Chiave esagonale a l mis. 6mm	1	Hexagon l tool 6mm
1010201	Chiave a forchetta s=10mm	2	Forc tool for columns 12.5 DIA
	TOTALE	606	TOTAL

Su richiesta - On request:

Trolley	Carrello porta attrezzi a 6 cassetti senza divisori interni	1	Elements storage trolley with 6 drawers without internal spacers
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Codice Code	Descrizione	Q.tà Q.ty	Description
1002101	Base Filettata misura 300x210x15mm, passo fori M8, Distanza 30mm, fori fissaggio piastra alla distanza di 150mm	1	Grid plate size 300x210x15, M8 holes at 30mm space, mounting holes at 150mm distance
1003205	Bussola fissaggio piastra completa di vite M8	1	M8 screw with bush - required for locking plates on granit base
1003301	Adattatore m-m m8-m24x1	2	M8-m24x1 double male element
1003307	Base per elementi orientabili	2	M24x1 element for rotatable tops
1004253	Colonna regolabile m24x1, lunghezza 130-155mm, diametro 28mm	2	28mm dia adjustable column m-f M24x1 / 130-155mm
1005601	Terminale di contatto Multipin con attacco a codolo.	2	Multineedle adapative top terminal element Diameter of the pin : 3mm , Qty 81 Inox All. pins, stroke 20mm.
1007104	Staff l	1	Large clamp
1007105	Ghiera per staffa	1	M8 ring for clamps
1007106	Grano di contrasto	1	M8 threaded rod with floating plane
1010201	Chiave a forchetta s=10mm	1	Forc tool for columns 12.5 dia
	TOTALE	14	TOTAL



KIT STAFFE BLOCCAGGIO STIRRUPS BLOCK KIT



Codice Code	Descrizione	Q.tà Q.ty	Description
1007101	Molla di pressione s	3	Small hold down spring
1007102	Molla di pressione l	1	Large hold down spring
1007103	Staffa s	3	Small clamp
1007104	Staffa l	3	Large clamp
1007105	Edimco per staffa	6	M8 ring for clamps
1007106	Grano di contrasto m8	6	M8 threaded rod with floating plane
1007107	Asta filettata m8 l=40	3	M8 threaded rod l=40mm
1007108	Asta filettata m8 l=60	3	M8 threaded rod l=60mm
1007109	Asta filettata m8 l=80	3	M8 threaded rod l=80mm
1007110	Asta Ø6 l=60	2	Hold down stud l=60mm
1007111	Asta Ø6 l=80	2	Hold down stud l=80mm
1010104	Chiave esagonale a l mis.4mm	1	Hexagon l tool 4mm
1010201	Chiave a forchetta s=10mm	1	Forc tool for columns 12.5 DIA
	TOTALE	37	TOTAL

KIT PRISMI PRISM KIT



Codice Code	Descrizione	Q.tà Q.ty	Description
1003305	Adattatore f-fim2x1-1m8	1	M8-m2x1 adapter female threaded
1003307	Base per elementi orientabili	1	M2x1 element for rotatable tops
1005303	Prisma a v 90° 1 alla centrale	1	V block one central 90deg 30x30mm
1005304	Prisma a v 90° 2 all centrali	1	V block two central 90deg 30x30mm
1005305	Prisma a v 90° 2 all laterali	1	V block two side central 90deg 30x30mm
1005108	Appoggio v 90°	1	V block 90deg pull stud 12.5 DIA
1005109	Appoggio v 120°	1	V block 120deg pull stud 12.5 DIA
1007101	Molla di pressione s	3	Small hold down spring
1007102	Molla di pressione l	1	Large hold down spring
1007110	Asta Ø6 l=60	2	Hold down stud l=60mm
1007111	Asta Ø6 l=80	2	Hold down stud l=80mm
1007201	Distanziatore regolabile 30	2	Adjustable spacer 30mm
1007202	Distanziatore regolabile 50	1	Adjustable spacer 50mm
1010201	Chiave a forchetta s=10mm	1	Forc tool for columns 12.5 DIA
1010102	Chiave esagonale a l mis. 2mm	1	Hexagon l tool 2mm
1010104	Chiave esagonale a l mis. 4mm	1	Hexagon l tool 4mm
	TOTALE	21	TOTAL

KIT MICRO APPOGGI MICRO SUPPORT KIT



Codice Code	Descrizione	Q.tà Q.ty	Description
1004101	Colonna d12.5 M-f m8-m8 l=15	6	M-f 12.5mm DIA m8 column l=15mm
1004102	Colonna d12.5 M-f m8-m8 l=20	3	M-f 12.5mm DIA m8 column l=20mm
1004103	Colonna d12.5 M-f m8-m8 l=25	6	M-f 12.5mm DIA m8 column l=25mm
1004104	Colonna d12.5 M-f m8-m8 l=30	3	M-f 12.5mm DIA m8 column l=30mm
1004151	Colonna registrabile d12.5 M-f m8-m8 / 50-70mm	2	12.5mm DIA adjustable column m-f m8-m8 / 50-70mm
1004105	Colonna porta appoggi con codolo l=30	6	12.5mm DIA column for pull stud top elements
1005101	Puntale 90°	2	Center 90deg pull stud 12.5 DIA
1005102	Puntale 60°	1	Center 60deg pull stud 12.5 DIA
1005103	Appoggio piano	2	Flat pull stud 12.5 DIA
1005104	Appoggio vertici 90°	1	Stop and support 90deg pull stud 12.5 DIA
1005105	Appoggio spigoli 180°	3	Stop and support 180deg pull stud 12.5 DIA
1005106	Appoggio con sfera flottante spianata	1	Floating plane pull stud 12.5 DIA
1005107	Appoggio con magneti	1	Magnet plane pull stud 12.5 DIA
1005108	Appoggio v 90°	2	V block 90deg pull stud 12.5 DIA
1005109	Appoggio v 120°	2	V block 120deg pull stud 12.5 DIA
1005110	Riferimento laterale con spina regolabile	1	Side pin adjustable reference pull stud 12.5 DIA
1005111	Appoggio con filetto m8	1	M8 tapped element with pull stud 12.5 DIA
1010102	Chiave esagonale a l mis. 2mm	1	Hexagon l tool 2mm
1010201	Chiave a forchetta s=10mm	1	Forc tool for columns 12.5 DIA
	TOTALE	45	TOTAL

KIT SUPPORTI A "V" "V" SUPPORT KIT



Codice Code	Descrizione	Q.tà Q.ty	Description
1003305	Adattatore f-f m24x1-m8	2	M8-m24x1 double female element
1003307	Base per elementi orientabili	4	M24x1 element for rotatable tops
1004105	Colonna porta appoggi con codolo l=30	2	12.5mm DIA column for pull stud top elements
1005108	Appoggio v 90°	2	V block 90deg pull stud 12.5 DIA
1005109	Appoggio v 120°	2	V block 120deg pull stud 12.5 DIA
1005303	Prisma a v 90° 1 ala centrale	1	V block one central 90deg 30x30mm
1005304	Prisma a v 90° 2 ali centrali	1	V block two central 90deg 30x30mm
1005305	Prisma a v 90° 2 ali esterne	1	V block two side central 90deg 30x30mm
1007101	Molla di pressione s	3	Small hold down spring
1007102	Molla di pressione l	1	Large hold down spring
1007110	Asta Ø6 l=60	2	Hold down stud l=60mm
1007111	Asta Ø6 l=90	2	Hold down stud l=90mm
1007201	Distanziatore regolabile 30	1	Adjustable spacer 30mm
1007202	Distanziatore regolabile 50	1	Adjustable spacer 50mm
1010102	Chiave esagonale a l mis. 2mm	1	Hexagon l tool 2mm
1010104	Chiave esagonale a l mis. 4mm	1	Hexagon l tool 4mm
1010201	Chiave a forchetta s=10mm	1	Forc tool for columns 12.5 DIA
	TOTALE	28	TOTAL

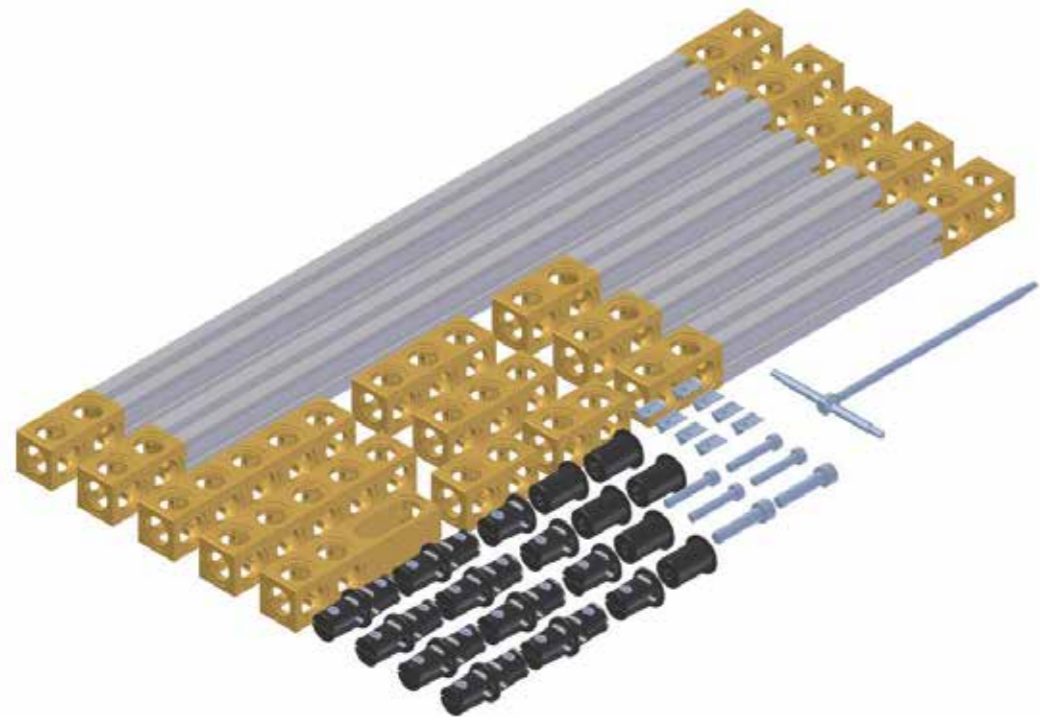
KIT SNODI 2D-3D JOINT KIT



Codice Code	Descrizione	Q.tà Q.ty	Description
1006101	Snodo 2Ø12.5 Codolo+m8	2	12.5mm DIA 2D joint (needs 1003306 or 1004105)
1003306	Base per appoggi con codolo M24x1	2	M24x1 adapter for pull stud top elements
1004105	Colonna porta appoggi con codolo l=30	2	12.5mm DIA column for pull stud top elements
1006102	Snodo 2Ø28	2	28mm DIA 2D joint
1003307	Base per elementi orientabili M24x1	2	M24x1 element for rotatable tops
1006201	Snodo 3Ø28	1	28mm DIA 3D joint
1006203	Braccio snodato 3D gr2	1	3D swivel arm I
	TOTALE	12	TOTAL



KIT PROFILI 30 PROFILES 30 KIT



Codice Code	Descrizione	Q.tà Q.ty	Description
1001201	Elemento lineare 60x30x30mm	2	Linear elements 60x30x30mm
1001202	Elemento lineare 90x30x30mm	2	Linear elements 90x30x30mm
1001204	Elemento lineare 150x30x30mm	2	Linear elements 150x30x30mm
1001302	Elemento asolato lineare 120x30x30mm	1	Linear sloped elements 120x30x30mm
1001702	Profilo 30x30 mm con testata 60x30x30 mm l=300 mm	3	30x30mm bar with heads 60x30x30mm l=300mm
1001704	Profilo 30x30 mm con testata 60x30x30 mm l=600 mm	2	30x30mm bar with heads 60x30x30mm l=600mm
1003101	Giunto rapido doppio	8	Double quick joint
1003104	Giunto rapido con filetto m8	4	M8 hole quick joint
1003202	Bussola fissaggio foro con vite m8	6	Bush for holes with m8 screw
1003402	Tassello m6 per profili con testata 30x30 e 60x60 con viti	8	M6 tapped insert for 30x30 and 60x60 bars with screw
1010101	Chiave esagonale a T mis. 4Mm	1	"T" hexagon tool 4mm size
	TOTALE	39	TOTAL





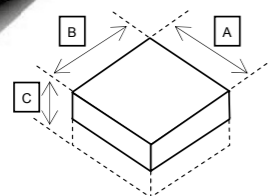
ELENCO DI TUTTI I COMPONENTI
DI NOSTRA PRODUZIONE

LIST OF ALL ITEMS FOR MODULAR
FIXTURING SYSTEM UTILIZED
WITH CMM INSTRUMENTS



ELEMENTI RETICOLARI SJS SJS COMPONENTS

1.10. PIASTRE BASE SJS AxBxC (10011xx) 1.10. SJS BASEPLATES AxBxC (10011xx)



Codice Code	Descrizione	Description
1001101	Piastra base SJS 300x300x30mm	SJS baseplate 300x300x30mm
1001102	Piastra base SJS 300x150x30mm	SJS baseplate 300x150x30mm
1001103	Piastra base SJS 210x210x30mm	SJS baseplate 210x210x30mm
1001104	Piastra base SJS 150x150x30mm	SJS baseplate 150x150x30mm
1001105	Piastra base SJS 120x120x30mm	SJS baseplate 120x120x30mm
1001107	Piastra base SJS 90x90x30mm	SJS baseplate 90x90x30mm
1001108	Piastra base SJS 60x60x30mm	SJS baseplate 60x60x30mm
100110C	<i>Su richiesta altre misure disponibili</i>	<i>Other measures available on request</i>



1.20. ELEMENTI LINEARI SJS AxBxC (10012xx) 1.20. LINEAR SJS ELEMENTS AxBxC (10012xx)



1001201 1001202 1001203 1001204

Codice Code	Descrizione	Description
1001201	Elemento SJS lineare 60x30x30mm	Linear SJS element 60x30x30mm
1001202	Elemento SJS lineare 90x30x30mm	Linear SJS element 90x30x30mm
1001203	Elemento SJS lineare 120x30x30mm	Linear SJS element 120x30x30mm
1001204	Elemento SJS lineare 150x30x30mm	Linear SJS element 150x30x30mm
100120C	<i>Su richiesta altre misure disponibili</i>	<i>Other measures available on request</i>

1.30. ELEMENTI LINEARI SJS ASOLATI AxBxC (10013xx) 1.30. LINEAR ADJUSTABLE SJS ELEMENTS AxBxC (10013xx)



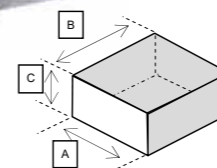
1001301



1001302

Codice Code	Descrizione	Description
1001301	Elemento SJS asolato lineare 90x30x30	Linear slot SJS element 90x30x30mm
1001302	Elemento SJS asolato lineare 120x30x30	Linear slot SJS element 120x30x30mm
100130C	<i>Su richiesta altre misure disponibili</i>	<i>Other measures available on request</i>

1.40. BLOCCHI SJS AxBxC (10014xx) 1.40. SJS BLOCKS AxBxC (10014xx)



Codice Code	Descrizione	Description
1001401	Blocco SJS 60x60x60	SJS block 60x60x60mm
1001402	Blocco SJS 60x60x90	SJS block 60x60x90mm
1001403	Blocco SJS 60x60x120	SJS block 60x60x120mm
1001404	Blocco SJS 60x60x150	SJS block 60x60x150mm
1001405	Blocco SJS 60x60x210	SJS block 60x60x210mm
1001406	Blocco SJS 60x60x300	SJS block 60x60x300mm
100140C	<i>Su richiesta altre misure disponibili</i>	<i>Other measures available on request</i>

1.50. RIFERIMENTI ANGOLARI SJS (10015xx) 1.50. ANGULAR SJS REFERENCES (10016xx)



1001501 1001502 1001503 1001504

Codice Code	Descrizione	Description
1001501	Riferimento angolare 30x30x30 45°	Angular SJS reference 30x30x30mm 45deg
1001502	Riferimento angolare 30x30x30 90°	Angular SJS reference 30x30x30mm 90deg
1001503	Riferimento angolare 60x60x30 60°+45°	Angular SJS reference 60x60x30mm 60+45deg
1001504	Angolare "V" Block lung. 15mm 120° att. SJS	"V" Block SJS holes 30mm, 120° degrees, 150mm length

1.60. RIFERIMENTI ANGOLARI SJS (10015xx) 1.60. ANGULAR SJS REFERENCES (10016xx)



1001601 1001602

Codice Code	Descrizione	Description
1001601	Elemento SJS 60x30x30mm per profili	SJS element length 60mm (60x30x30mm), 2 SJS holes, for all kind of profiles - bars
1001602	Elemento SJS 60x60x30mm per profili	SJS element length 60mm (60x60x30mm), 4 holes, for profiles - bars size 60x60mm
1001603	Elemento SJS 120x30x30mm per profili	SJS element length 120mm (120x30x30mm), 4 holes, for all kind of profiles - bars
100160C	<i>Su richiesta altre misure disponibili</i>	<i>Other measures available on request</i>



1001603



Example of use ref. code 1001603



Example of use ref. code 1001602

1.65. ELEMENTO LINEARE SJS CON SUPPORTO VITE MEISTERBOCK
1.65. MEISTERBOCK SCREW HOLDER WITH SJS HOLE

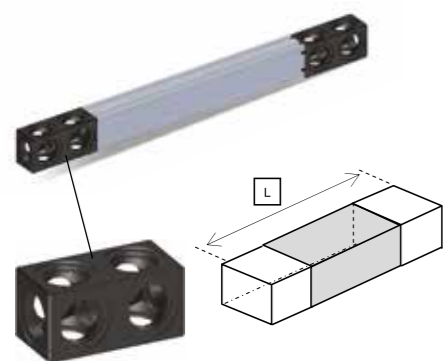


1001651

Codice Code	Descrizione	Description
1001651	Elemento lineare con fori SJS 30x30x30mm predisposto per il fissaggio vite Meisterbock serie 5000	SJS element 30x30x30mm with hole fixing position for Meisterbock Screw

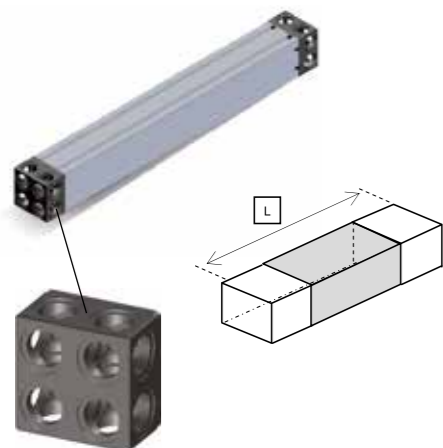


1.70. PROFILO 30x30mm CON TESTATE SJS MISURA 60x30x30, 2 FORI
1.70. BAR SIZE 30x30MM WITH SJS HEAD CONNECTION BORES SIZE 60x30x30mm, 2 HOLES, SINGLE ROW



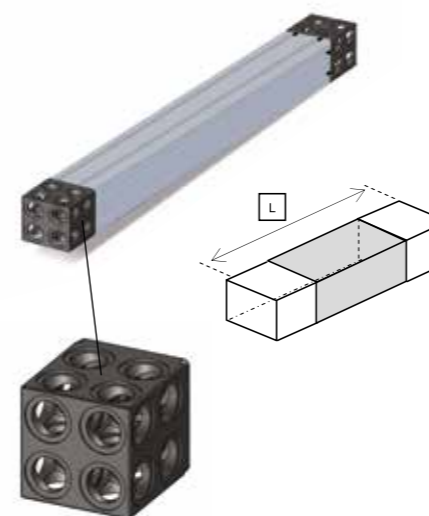
Codice Code	Descrizione	Description
1001701	Profilo 30x30mm; Lunghezza: 210mm	Bar size: 30x30mm; Lenght: 210mm
1001702	Profilo 30x30mm; Lunghezza: 300mm	Bar size: 30x30mm; Lenght: 300mm
1001703	Profilo 30x30mm; Lunghezza: 450mm	Bar size: 30x30mm; Lenght: 450mm
1001704	Profilo 30x30mm; Lunghezza: 600mm	Bar size: 30x30mm; Lenght: 600mm
1001705	Profilo 30x30mm; Lunghezza: 900mm	Bar size: 30x30mm; Lenght: 900mm
1001706	Profilo 30x30mm; Lunghezza: 1200mm	Bar size: 30x30mm; Lenght: 1200mm
1001707	Profilo 30x30mm; Lunghezza: 1500mm	Bar size: 30x30mm; Lenght: 1500mm
1001708	Profilo 30x30mm; Lunghezza: 1800mm	Bar size: 30x30mm; Lenght: 1800mm
	<i>Su richiesta altre misure disponibili</i>	<i>Other measures available on request</i>

1.70. PROFILO 60x60mm CON TESTATE SJS MISURA 60x60x30, 4 FORI
1.70. BAR SIZE 60x60MM WITH SJS HEAD CONNECTION BORES SIZE 60x60x30mm, 4 HOLES, DOUBLE ROW



Codice Code	Descrizione	Description
1001721	Profilo 60x60mm; Lunghezza: 600mm	Bar size: 60x60mm; Lenght: 600mm
1001722	Profilo 60x60mm; Lunghezza: 900mm	Bar size: 60x60mm; Lenght: 900mm
1001723	Profilo 60x60mm; Lunghezza: 1200mm	Bar size: 60x60mm; Lenght: 1200mm
1001724	Profilo 60x60mm; Lunghezza: 1500mm	Bar size: 60x60mm; Lenght: 1500mm
1001725	Profilo 60x60mm; Lunghezza: 1800mm	Bar size: 60x60mm; Lenght: 1800mm
1001726	Profilo 60x60mm; Lunghezza: 2100mm	Bar size: 60x60mm; Lenght: 2100mm
1001727	Profilo 60x60mm; Lunghezza: 2400mm	Bar size: 60x60mm; Lenght: 2400mm
1001728	Profilo 60x60mm; Lunghezza: 2700mm	Bar size: 60x60mm; Lenght: 2700mm
1001729	Profilo 60x60mm; Lunghezza: 3000mm	Bar size: 60x60mm; Lenght: 3000mm
	<i>Su richiesta altre misure disponibili</i>	<i>Other measures available on request</i>

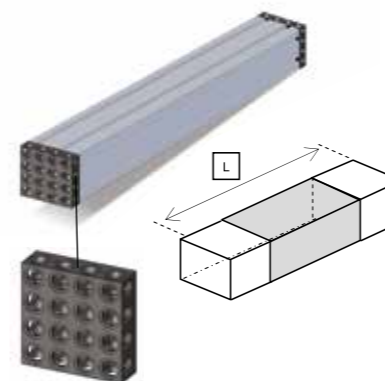
1.70. PROFILO 60x60mm CON TESTATE SJS MISURA 60x60x60, 8 FORI
1.70. BAR SIZE 60x60MM WITH SJS HEAD CONNECTION BORES SIZE 60x60x60mm, 8 HOLES



Codice Code	Descrizione	Description
1001741	Profilo 60x60mm; Lunghezza: 600mm	Bar size: 60x60mm; Lenght: 600mm
1001742	Profilo 60x60mm; Lunghezza: 900mm	Bar size: 60x60mm; Lenght: 900mm
1001743	Profilo 60x60mm; Lunghezza: 1200mm	Bar size: 60x60mm; Lenght: 1200mm
1001744	Profilo 60x60mm; Lunghezza: 1500mm	Bar size: 60x60mm; Lenght: 1500mm
1001745	Profilo 60x60mm; Lunghezza: 1800mm	Bar size: 60x60mm; Lenght: 1800mm
1001746	Profilo 60x60mm; Lunghezza: 2100mm	Bar size: 60x60mm; Lenght: 2100mm
1001747	Profilo 60x60mm; Lunghezza: 2400mm	Bar size: 60x60mm; Lenght: 2400mm
1001748	Profilo 60x60mm; Lunghezza: 2700mm	Bar size: 60x60mm; Lenght: 2700mm
1001749	Profilo 60x60mm; Lunghezza: 3000mm	Bar size: 60x60mm; Lenght: 3000mm
	<i>Su richiesta altre misure disponibili</i>	<i>Other measures available on request</i>



1.70. PROFILO 120x120mm CON TESTATE SJS MISURA 120x120x30, 9 FORI
1.70. BAR SIZE 120x120mm WITH SJS HEAD CONNECTION BORES SIZE 120x120x30mm, 9 HOLES



Codice Code	Descrizione	Description
1001771	Profilo 120x120mm; Lunghezza: 600mm	Bar size: 120x120mm; Lenght: 600mm
1001772	Profilo 120x120mm; Lunghezza: 900mm	Bar size: 120x120mm; Lenght: 900mm
1001773	Profilo 120x120mm; Lunghezza: 1200mm	Bar size: 120x120mm; Lenght: 1200mm
1001774	Profilo 120x120mm; Lunghezza: 1500mm	Bar size: 120x120mm; Lenght: 1500mm
1001775	Profilo 120x120mm; Lunghezza: 1800mm	Bar size: 120x120mm; Lenght: 1800mm
1001776	Profilo 120x120mm; Lunghezza: 2100mm	Bar size: 120x120mm; Lenght: 2100mm
1001777	Profilo 120x120mm; Lunghezza: 2400mm	Bar size: 120x120mm; Lenght: 2400mm
1001778	Profilo 120x120mm; Lunghezza: 2700mm	Bar size: 120x120mm; Lenght: 2700mm
1001779	Profilo 120x120mm; Lunghezza: 3000mm	Bar size: 120x120mm; Lenght: 3000mm
	<i>Su richiesta altre misure disponibili</i>	<i>Other measures available on request</i>

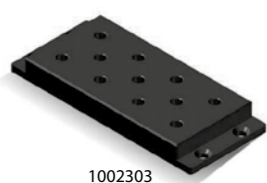
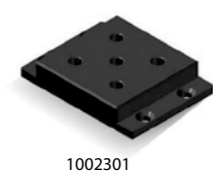
1.90. RINFORZO ANGOLARE
1.90. UNIVERSAL STRUT COMPONENT



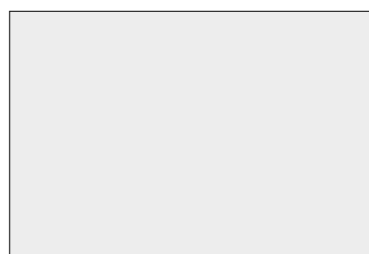
Codice Code	Descrizione	Description
1001900	Testata SJS per elemento di rinforzo su profili in alluminio	Locking struts head element for bars 30x30
1001901	Elemento di rinforzo a 30° compatibile con elem. lineari	30° top head connection for struts with linear SJS elements
1001902	Elemento di rinforzo a 45° compatibile con elem. lineari	45° top head connection for struts with linear SJS elements
1001903	Elemento di rinforzo a 60° compatibile con elem. lineari	60° top head connection for struts with linear SJS elements



2.30. BASE SCORREVOLE SUPPORTO GIUNTI SJS SU PROFILI AxBxC (10023xx)
2.30. SLIDING BASE TO HOLD SJS JOINT FOR BARS (10023xx)

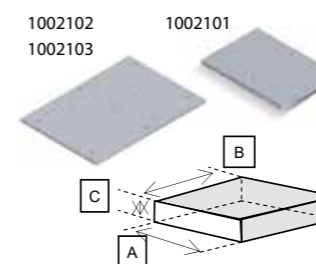


Codice Code	Descrizione	Description
1002301	Base supporto giunti 60x60x15mm su profili	Sliding base & joints support 60x60x15mm on bars
1002302	Base supporto giunti 60x60x15mm su profili	Sliding base & joints support 60x60x15mm on bars
1002303	Base supporto giunti 60x120x15mm su profili	Sliding base & joints support 60x120x15mm on bars
	Su richiesta altre misure disponibili	Other measures available on request



BASE PARTENZA PER MONTAGGIO ATTREZZAGGIO
BASE PLATE FOR FIXTURING ASSEMBLY

2.10. PIASTRA BASE, CON FORI FILETTATI M8, MISURA AxBxC - PIASTRA ANODIZZATA
2.10. BASE PLATES, WITH M8 THREAD HOLE, SIZE AxBxC - ANODIZED SURFACE TREATMENT



Codice Code	Descrizione	Description
1002101	Base filettata misura 300x210x15, passo fori M8 passo 30mm	Grid plate size 300x210x15, M8 holes at 30mm space, mounting holes at 150mm distance
1002102	Base filettata misura 600x420x15, passo fori M8 passo 30mm	Grid plate size 600x420x15, M8 holes at 30mm space, mounting holes at 150mm distance
1002103	Base filettata misura 900x300x15, passo fori M8 passo 60mm	Grid plate size 900x300x15, M8 holes at 30mm space, mounting holes at 150mm distance
100210Z	Base filettata misura 300x210x15, passo fori M8 passo 30mm	Grid plate size 300x210x15, M8 holes at 30mm space, mounting holes at 200mm distance
100210Z	Base filettata misura 600x420x15, passo fori M8 passo 30mm	Grid plate size 600x420x15, M8 holes at 30mm space, mounting holes at 200mm distance
100210Z	Base filettata misura 900x300x15, passo fori M8 passo 60mm	Grid plate size 900x300x15, M8 holes at 60mm space, mounting holes at 200mm distance
1002106	Base filettata misura 240x240x15, passo fori M8 passo 30mm	Tapped base plate size 240x240x15, M8 holes at 30mm space, mounting holes at 200mm distance, holes with bushing for JP sandwich set up
1002107	Base filettata misura 480x240x20, passo fori M8 passo 30mm	Tapped base plate size 480x240x20, M8 holes at 30mm space, mounting holes at 200mm distance, holes with bushing for JP sandwich set up
1002108	Base filettata misura 1000x400x30, passo fori M8 passo 60mm	Tapped base plate 1000x400x30, M8 holes at 60mm space, mounting holes at 200mm distance, holes with bushing for JP sandwich set up

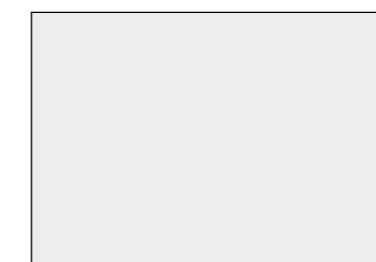
Technical Details:
Description: Tapped Aluminum Base, size 900x300x15 mm
Parallelism: 0.04/100; 0,1/1000
Flatness: 0.04/100; 0,1/1000
Plate Threading: M8
Thickness of the plate: ±0,1mm
Surface treatment: Natural anodized Treatment, grey colour
Mounting Holes: Standard distance/pitch 150mm
Different mounting hole position can be customized on request

Option: we can supply a custom base plate with the holes already set to fit it on the CMM unit.
Please watch the movie on our web site: <http://www.alukeep.com/video.html>

2.20. BASI RIFERIMENTO PER CAMBIO RAPIDO (10022xx)
2.20. QUICK CHANGE REFERENCE BASE (10022xx)



Codice Code	Descrizione	Description
1002201	Base riferimento cambio rapido	Reference base quick change
	Utilizzare solo con base modulare 1002101	Utilise it only with modular base 1002101



3.20. BUSSOLE DI FISSAGGIO (10032xx)
3.20. LOCKING BUSHING (10032xx)



Codice Code	Descrizione	Description
1003201	Bussola fissaggio fori SJS con vite m10	Bush for SJS holes with m10 screw
1003202	Bussola fissaggio fori SJS con vite m8	Bush for SJS holes with m8 screw
1003203	Bussola fissaggio fori SJS con vite m6	Bush for SJS holes with m6 screw
1003204	Bussola fissaggio piastre filettate vite m10	Bush locking plates with m10 screw
1003205	Bussola fissaggio piastre filettate vite m8	Bush locking plates with m8 screw
1003206	Bussola fissaggio piastre filettate vite m6	Bush locking plates with m6 screw
1003207	Vite m12 speciale per fissaggio piastre filettate	Special m12 screw locking plates
1003208	Bussola fissaggio per fori SJS con giunto 100311	Bush SJS holes utilising joint 100311

ELEMENTI CONNESSIONE ED ADATTATORI CONNECTION ELEMENTS AND ADAPTERS

3.10. GIUNTI RAPIDI SJS (10031xx) 3.10. SJS QUICK JOINTS (10031xx)

Codice Code	Descrizione	Description
1003101	Giunto rapido SJS doppio	Double SJS quick joint
1003102	Giunto rapido SJS con attacco base filettata m24x1	Threaded m24x1 base SJS quick joint
1003103	Giunto rapido SJS con filetto m8	M8 hole SJS quick joint
1003104	Giunto rapido SJS con filetto m6	M6 hole SJS quick joint
1003105	Giunto rapido SJS con filetto m4	M4 hole SJS quick joint
1003106	Giunto SJS connessione din 650	Din 650 SJS joint (dea five columns system)
1003107	Giunto SJS lavorabile Ø30mm l30mm	Customizable quick SJS joint Ø30mm l30mm
1003108	Giunto rapido SJS speciale con filetto m6	SJS Special quick joint with M6 hole
1003109	Giunto SJS con attacco speciale "AM"	Special WALLholder SJS joints
1003111	Giunto multiplo m8 per fori SJS	M8 tapped multiple SJS holes joint



3.30. ADATTATORI FILETTATI (10033xx) 3.30. TAPPED ADAPTERS (10033xx)

Codice Code	Descrizione	Description
1003301	Adattatore m-m m8-m24x1	M8-m24x1 double male element
1003302	Adattatore m-m m24x1	M24x1 double male element
1003303	Ghiera passante m24x1	Threaded ring m24x1 element
1003304	Ghiera passante m8	Threaded ring m8x1 element
1003305	Adattatore f-f m24x1-m8	M8-m24x1 double female element
1003306	Base per appoggi con codolo	M24x1 adapter for pull stud top elements
1003307	Base per elementi orientabili	M24x1 element for rotatable tops
1003308	Riduzione bussola M12 - M8	Reducer Bush out side M12, inside M8, height 15
1003309	Adattatore per CLAMP - F-F M24xM24CLAMP interface - M24-M24x1 double female	



3.40. CONNESSIONI PER PIASTRE E PROFILI (10034xx) 3.40. CONNECTIONS FOR BASEPLATE AND BARS (10034xx)

Codice Code	Descrizione	Description
1003401	Piastrina di unione per piastre filettate 1002101	Tapped baseplates connection element with screw
1003402	Tassello per profili con misure 30x30 e 60x60	Tapped element for 30x30 and 60x60 bars
1003403	Tassello per profili con misure 120x120	Tapped element for 120x120 bars

COLONNE COLUMNS

4.10. COLONNE Ø12,5 (10041xx) 4.10. COLUMNS Ø12,5 (10041xx)

Codice Code	Descrizione	Description
1004101	Colonna Ø12.5 M-f m8-m8 l=15	M-f Ø12.5mm m8 column l=15mm
1004102	Colonna Ø12.5 M-f m8-m8 l=20	M-f Ø12.5mm m8 column l=20mm
1004103	Colonna Ø12.5 M-f m8-m8 l=25	M-f Ø12.5mm m8 column l=25mm
1004104	Colonna Ø12.5 M-f m8-m8 l=30	M-f Ø12.5mm m8 column l=30mm
1004105	Colonna porta appoggi con codolo l=30	12.5mm DIA column for pull stud top elements

4.15. COLONNE Ø12,5 REGISTRABILI LUNGHEZZA (100415X) 4.15. ADJUSTABLE LENGHT COLUMNS Ø12,5 (100415x)

Codice Code	Descrizione	Description
1004151	Colonna registrabile Ø 12.5 M-f m8-m8 / 50-70mm	Colonna registrabile Ø 12.5 M-f m8-m8 / 50-70mm

4.20. COLONNE Ø28MM (10042XX) 4.20. COLUMNS Ø28MM (10042XX)

Codice Code	Descrizione	Description
1004201	Colonna Ø28 m-f m24x1-m24x1 l=30	Ø28mm m24x1 column l=30mm
1004202	Colonna Ø28 m-f m24x1-m24x1 l=45	Ø28mm m24x1 column l=45mm
1004203	Colonna Ø28 m-f m24x1-m24x1 l=60	Ø28mm m24x1 column l=60mm
1004204	Colonna Ø28 m-f m24x1-m24x1 l=75	Ø28mm m24x1 column l=75mm
1004205	Colonna Ø28 m-f m24x1-m24x1 l=90	Ø28mm m24x1 column l=90mm

4.20. COLONNE Ø28MM REGISTRABILI LUNGHEZZA (100425X) 4.20. ADJUSTABLE LENGHT COLUMNS Ø28MM (100425X)

Codice Code	Descrizione	Description
1004251	Ø28 colonna regolabile m24x1 lunghezza 80-105 mm	Ø28mm adjustable column m-f m24x1 / 80-105mm
1004252	Ø28 colonna regolabile m24x1 lunghezza 105-130 mm	Ø28mm adjustable column m-f m24x1 / 105-130mm
1004253	Ø28 colonna regolabile m24x1 lunghezza 130-155 mm	Ø28mm adjustable column m-f m24x1 / 130-155mm
1004254	Ø28 colonna regolabile m24x1 regolazione fine lunghezza 55-70 mm	Ø28mm micro adjustable column m-f m24x1 / 55-70mm

ELEMENTI TERMINALI TOP TERMINAL ELEMENTS

5.10. TERMINALI CON ATTACCO CODOLO Ø12.5MM (10051XX) 5.10. PULL STUD TOP ELEMENTS Ø12.5MM (10051XX)

Codice Code	Descrizione	Description
1005101	Puntale 90° con codolo	Center 90deg pull stud
1005102	Puntale 60° con codolo	Center 60deg pull stud
1005103	Appoggio piano	Flat pull stud
1005104	Appoggio vertici 90°	Stop and support 90deg pull stud
1005105	Appoggio spigoli 180°	Stop and support 180deg pull stud
1005106	Appoggio con sfera flottante spianata	Floating plane pull stud
1005107	Appoggio con magnete	Magnet plane pull stud
1005108	Appoggio v 90°	V block 90deg pull stud
1005109	Appoggio v 120°	V block 120deg pull stud
1005110	Riferimento laterale con spina regolabile	Side pin adjustable reference pull stud
1005111	Appoggio con filetto m8	M8 tapped element with pull stud
1005112	Cilindro lavorabile l=15	Customizable cylinder l=15mm pull stud
1005113	Cilindro lavorabile l=25	Customizable cylinder l=25mm pull stud

5.20. TERMINALI FILETTATI M24x1 CON Ø28MM (10052XX) 5.20. TOP ELEMENTS WITH M24x1 THREADS Ø28MM (10052XX)

Codice Code	Descrizione	Description
1005201	Puntale 90°	Center 90deg 28mm DIA
1005202	Puntale 60°	Center 60deg 28mm DIA
1005203	Appoggio piano	Flat 28mm DIA
1005204	Appoggio basculante	Floating plane 28mm DIA
1005205	Appoggio con magnete	Flat magnet 28mm DIA
1005206	Appoggio con calotta in acciaio	Steel sphere top element 28mm DIA

5.30. ELEMENTI ORIENTABILI PER SUPPORTO #1003307 (10053XX) 5.30. ROTABLE ELEMENTS FOR #1003307 HOLDER (10053XX)

Codice Code	Descrizione	Description
1005301	Appoggio spigoli 90°	Stop and support 90deg 28mm DIA
1005302	Appoggio vertici 180°	Stop and support 180deg 28mm DIA
1005303	Prisma a v 90° 1 ala centrale	V block one central 90deg 30x30mm
1005304	Prisma a v 90° 2 ali centrali	V block two central 90deg 30x30mm
1005305	Prisma a v 90° 2 ali esterne	V block two side central 90deg 30x30mm
1005306	Prisma a v 90°	V block full 90deg 30x30mm
1005307	Prisma l=30 lavorabile	Customizable 30x30mm
1005308	Cilindro Ø30 lavorabile	Customizable 30mm DIA

5.40. SFERE DI RIFERIMENTO (10054XX) 5.40. REFERENCE AND SUPPORT BALLS (10054XX)

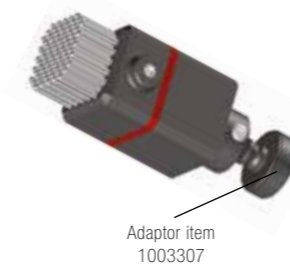
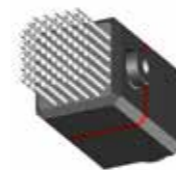
Codice Code	Descrizione	Description
1005401	Sfera di riferimento Ø12 inox	12mm DIA inox ball
1005402	Sfera di riferimento Ø12	12mm DIA alu ball
1005403	Sfera di riferimento Ø15 inox	15mm DIA inox ball
1005404	Sfera di riferimento Ø15	15mm DIA alu ball
1005405	Sfera di riferimento Ø25,4 inox	25,4mm=1" DIA inox ball

5.50. CILINDRO RIFERIMENTO PER FORI Ø A (10055XX) 5.50. REFERENCE PIN FOR HOLES Ø A (10055XX)

Codice Code	Descrizione	Description
1005501	Cilindro riferimento Ø2.5 Inox per m8	Reference pin for m8 thread holes, "A" Ø 2,5mm
1005502	Cilindro riferimento Ø3.2 Inox per m8	Reference pin for m8 thread holes, "A" Ø 3,2mm
1005503	Cilindro riferimento Ø4.2 Inox per m8	Reference pin for m8 thread holes "A" Ø 4,2mm
1005504	Cilindro riferimento Ø5 inox per m8	Reference pin for m8 thread holes, "A" Ø 5,0 mm
1005505	Cilindro riferimento Ø6 inox per m8	Reference pin for m8 thread holes, "A" Ø 6,0 mm
1005506	Cilindro riferimento Ø6.8 Inox per m8	Reference pin for m8 thread holes, "A" Ø 6,8mm
1005507	Cilindro riferimento Ø8 inox per m8	Reference pin for m8 thread holes, "A" Ø 8,0mm
1005508	Cilindro riferimento Ø8.5 Inox per m8	Reference pin for m8 thread holes, "A" Ø 8,5mm
1005509	Cilindro riferimento Ø10 inox per m8	Reference pin for m8 thread holes, "A" Ø 10,0mm
1005510	Cilindro riferimento Ø10.2 Inox per m8	Reference pin for m8 thread holes, "A" Ø 10,2mm
1005511	Cilindro riferimento Ø12 inox per m8	Reference pin for m8 thread holes, "A" Ø 12,0mm

5.60. TERMINALE AUTO-ADATTIVO A PINS (10056XX) 5.60. MULTINEEDLE ADAPATIVE TOP TERMINAL (10056XX)

Codice Code	Descrizione	Description
1005601	Terminale di contatto multi-pins auto-adattivo, Diametro pin: 3mm, Qty 81 Inox All. pin, corsa pin 20mm Elemento di connessione richiesto articolo 1003307	Multineedle adapative top terminal element Diameter of the pin: 3mm, Qty 81 Inox All. pins, stroke 20mm Item 1003307 required
1005601PP	Terminale di contatto multi-pins auto-adattivo per scanner foto-metrico, Diametro pin: 3mm, Qty 81 pin, corsa pin 20mm Elemento di connessione richiesto articolo 1003307	Multineedle adapative top terminal element for photo-metric scan Diameter of the pin: 3mm, Qty 81 pins, stroke 20mm Item 1003307 required
1005601 SJS-JOINT	Terminale di contatto multi-pins auto-adattivo per scanner foto-metrico, Diametro pin: 3mm, Qty 81 Inox All. pin, corsa pin 20mm Utilizziamo snodo SJS per impostare l'elemento di fissaggio	Multineedle adapative top terminal element for photo-metric scan Diameter of the pin: 3mm, Qty 81 Plastic pins, stroke 20mm We utilize SJS joint to set the item on fixture
1005601PP SJS-JOINT	Terminale di contatto multi-pins auto-adattivo per scanner foto-metrico, Diametro pin: 3mm, Qty 81 pin, corsa pin 20mm Utilizziamo snodo SJS per impostare l'elemento di fissaggio	Multineedle adapative top terminal element for photo-metric scan Diameter of the pin: 3mm, Qty 81 Plastic pins, stroke 20mm We utilize SJS joint to set the item on fixture



Adaptor item 1003307



**SPECIALE COLONNA PER CONTROLLO QUALITÀ ARTICOLI PESANTI
SPECIAL COLUMN FOR MEASUREMENT OF EXTRA-HEAVY PART**



Codice Code	Descrizione	Description
1004501	Colonna heavy duty	Heavy duty column

**SNODI 2D-3D
2D-3D JOINTS**

**6.10. SNODI 2D (10061XX)
6.10. 2D JOINTS (10061XX)**



Codice Code	Descrizione	Description
1006101	Snodo 2d Ø12.5 Codolo+m8	12.5mm DIA 2d joint (needs 1003306 or 1004105)
1006102	Snodo 2d Ø28	28mm DIA 2d joint (needs 1003307)
1006103	Snodo 2d Ø12.5 Codolo+Codolo per terminali 10051xx	12.5mm DIA 2d joint, top side of the item ready to set a Pull Stud Top Element

**6.20. SNODI 3D (10061XX)
6.20. 3D JOINTS (10061XX)**



Codice Code	Descrizione	Description
1006201	Snodo 3d	28mm DIA 3d joint
1006202	Braccio snodato gr1	3D swivel arm gr1
1006203	Braccio snodato gr2	3D swivel arm gr2

**COMPONENTE AIR PALLET
HOVERCRAFT-AIR PALLET COMPONENT**

**PIASTRA DI MOVIMENTAZIONE CARICHI PESANTI CON CUSCINO D'ARIA
AIR PALLET BASE PLATE FOR HEAVY COMPONENT**



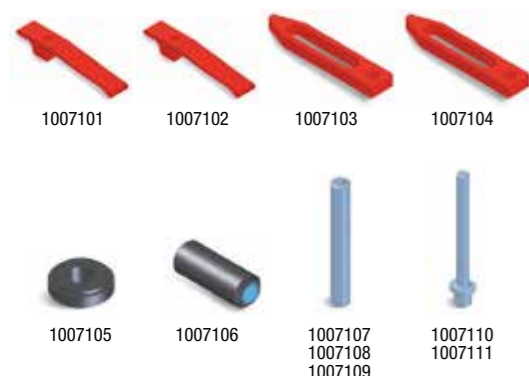
Codice Code	Descrizione	Description
AIR-PALLET600x420	Air Pallet con misure 600x420mm, portata max: 400 kg	Air Pallet with measure 600x420mm, max loading weight: 400 kg
AIR-PALLET650x650	Air Pallet con misure 650x650mm, portata max: 700 kg	Air Pallet with measure 650x650mm, max loading weight: 700 kg

Technical Details:
 Parallelism: 0.04/100; 0,1/1000
 Flatness: 0.04/100; 0,1/1000
 Plate Threading: M8
 Thickness of the plate: ±0,1mm
 Height of the air pallet: 35mm
 Air Pressure required: 5 bar
 Surface treatment: Natural anodized Treatment, grey colour



ELEMENTI DI RITENZIONE E PRESA CLAMPING ELEMENTS

7.10. MOLLE E STAFFE (10071XX) 7.10. SPRINGS AND CLAMPS (10071xx)



Codice Code	Descrizione	Description
1007101	Molla di pressione corta s	Short type hold down spring
1007102	Molla di pressione lunga l	Long type hold down spring
1007103	Staffa s	Small clamp
1007104	Staffa l	Large clamp
1007105	Ghiera per staffa	M8 ring for clamps
1007106	Grano di contrasto m8	M8 threaded rod with floating plane
1007107	Asta filettata m8 l=40	M8 threaded rod l=40mm
1007108	Asta filettata m8 l=60	M8 threaded rod l=60mm
1007109	Asta filettata m8 l=80	M8 threaded rod l=80mm
1007110	Asta Ø6 l=60	Hold down stud l=60mm
1007111	Asta Ø6 l=90	Hold down stud l=90mm

7.20. DISTANZIATORI (10072XX) 7.20. SPACER FOR HOLDERS (10072XX)



Codice Code	Descrizione	Description
1007201	Distanziatore regolabile 30	Adjustable spacer 30mm
1007202	Distanziatore regolabile 50	Adjustable spacer 50mm
1007203	Distanziatore con doppio foro	Spacer with double holes

7.30. MORSE (10073XX) 7.30. VISE SETS (10073XX)



Codice Code	Descrizione	Description
1007301	Morsa modulare rapida 60	Moular SJS quick vise 60mm jaws
1007302	Kit 2+2 ganasce lavorabili per alk 1007301	Customizable jaws for 1007301
1007303	Micro morsa rapida 30x30	Quick microvise 30x30mm
1007304	Kit 2+2 ganasce lavorabili per alk 1007303	Customizable jaws for 1007303
1007601	Micro morsa regolabile con trazione perno Ø 12,5mm, gamma 0-15mm	Adjustable micro vise with pull stud 12,5mm Ø, range 0-15mm



1007601
Micro morsa regolabile
Adjustable micro vise



1004105
Adattatore
Adaptor

7.40. MANDRINO AUTOCENTRANTE (10074XX) 7.40. CHUCKS (10074XX)



Codice Code	Descrizione	Description
1007401	Autocentrante Ø80 con attacco base filettato	Ø 80mm chuck
1007402	Autocentrante Ø200 con attacco base filettato	200mm dia chuck - flange connection 52mm
1007403	Autocentrante Ø250 con attacco base filettato	250mm dia chuck - flange connection 78mm

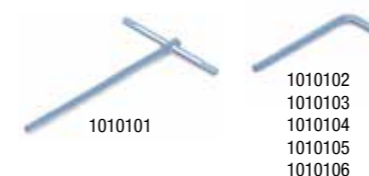
7.50. MORSETTI DI FISSAGGIO (10075XX) 7.50. SCREW CLAMPS (10075XX)



Codice Code	Descrizione	Description
1007501	Morsetto 0-25	Screw clamp 0-25mm with joint
1007502	Morsetto 0-50	Screw clamp 0-50mm with joint

UTENSILI TOOLS

10.10. CHIAVI A TESTA ESAGONALE (10101XX) 10.10. HEXAGON TOOLS (10101XX)

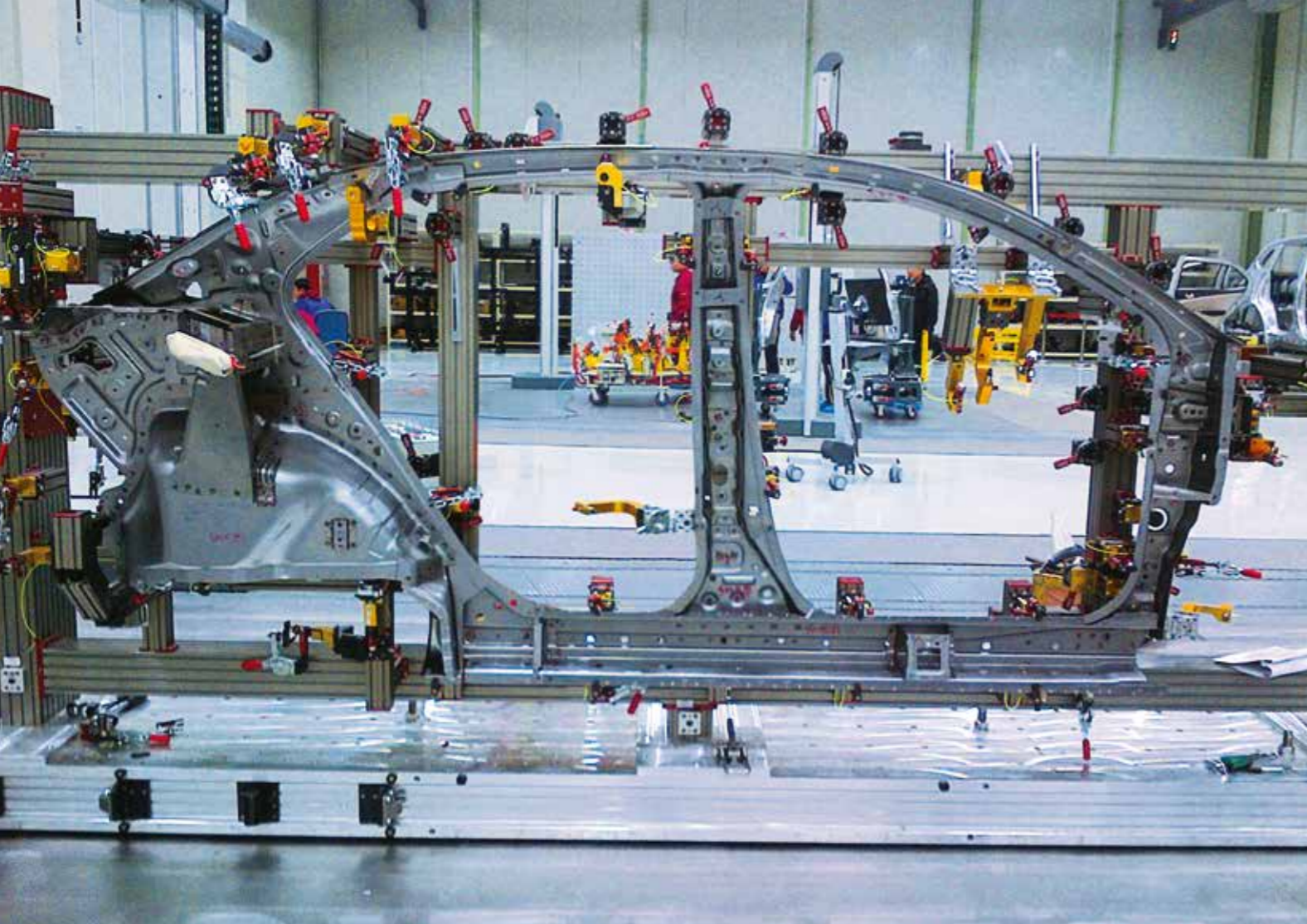


Codice Code	Descrizione	Description
1010101	Chiave esagonale a t mis. 4mm	Hexagon t tool 4mm
1010102	Chiave esagonale a l mis. 2mm	Hexagon l tool 2mm
1010103	Chiave esagonale a l mis. 2,5mm	Hexagon l tool 2,5mm
1010104	Chiave esagonale a l mis. 4mm	Hexagon l tool 4mm
1010105	Chiave esagonale a l mis. 5mm	Hexagon l tool 5mm
1010106	Chiave esagonale a l mis. 6mm	Hexagon l tool 6mm

20.10. CHIAVE A FORCHETTA (20101XX) 20.10. FORC TOOL FOR COLUMNS (20101XX)

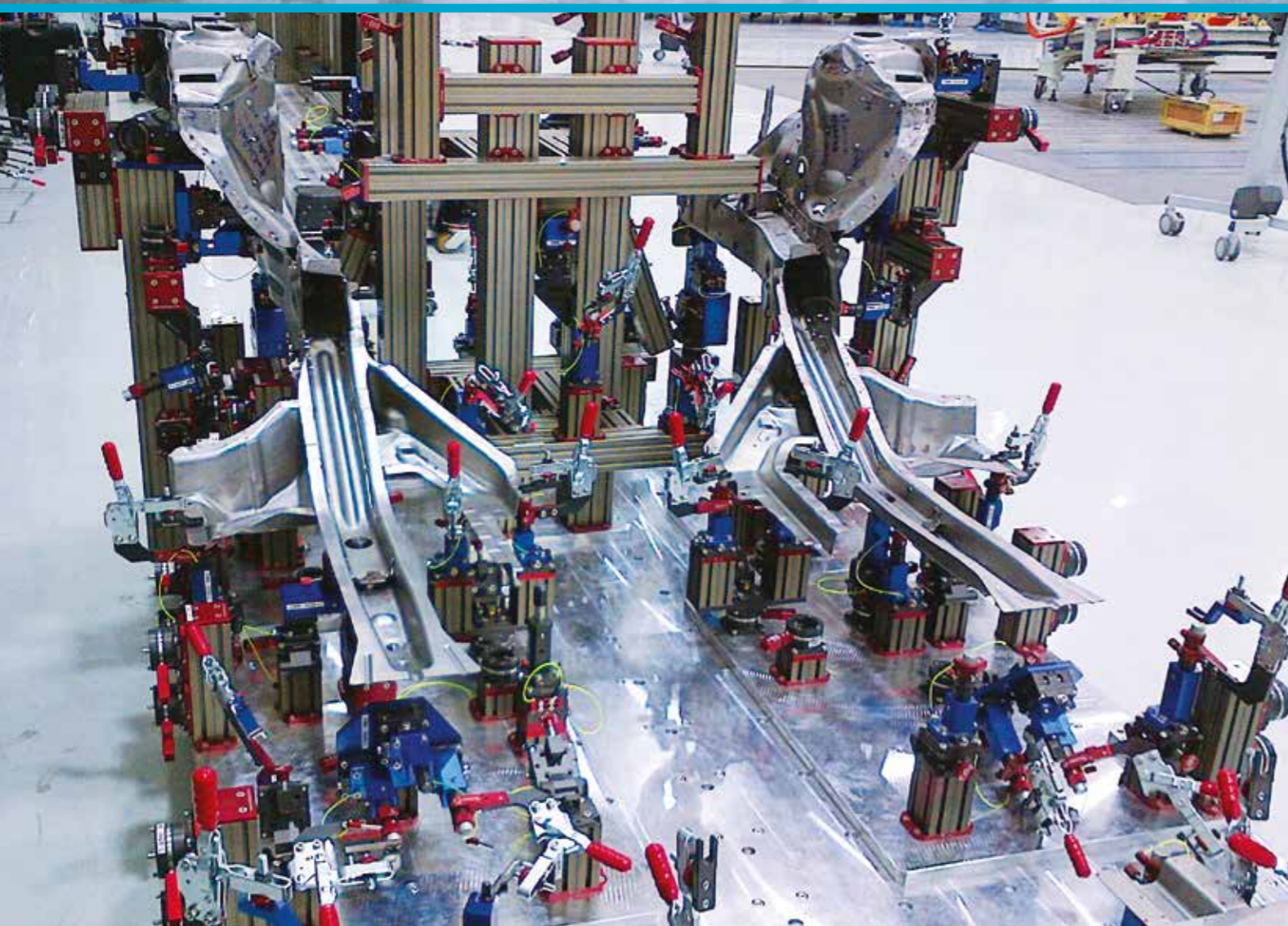


Codice Code	Descrizione	Description
1010201	Chiave a forchetta s=10mm	Forc tool for columns 12.5 DIA



ELENCO COMPONENTI
PER PROGETTI MEISTERBOCK
E ATTREZZATURE - SETTORE AUTOMOTIVE

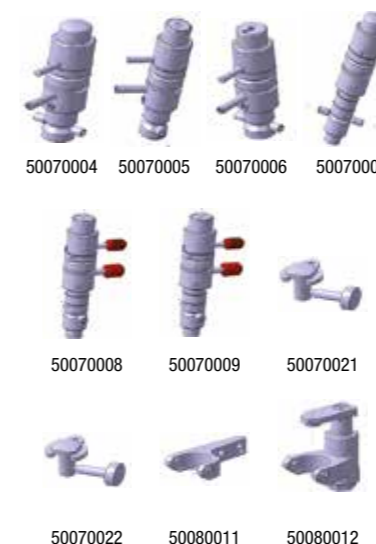
LIST OF ITEMS FOR MEISTERBOCK
AND CHECKING FIXTURE PROJECTS
AUTOMOTIVE FIELD



Strutture Mac - Mac structures



1. VITI MEISTERBOCK 1. MEISTERBOCK SCREWS



Codice Code	Descrizione	Description
50070004	Vite meisterbock Ø18, 2 regolazioni, terminale bombato	Meisterbock Screw , Ø18, 2 positions, Convex Top Terminal
50070005	Vite meisterbock Ø18, 2 regolazioni, terminale magnete	Meisterbock Screw , Ø18, 2 positions, Magnet Top Terminal
50070006	Vite meisterbock Ø18, 2 regolazioni, terminale filettato	Meisterbock Screw , Ø18, 2 positions, Thread insert Top Terminal
50070007	Vite meisterbock Ø18, 2 regolazioni, terminale bombato con recupero spessori	Meisterbock Screw , Ø18, 2 positions, Convex Top Terminal equipped with double thickness set up
50070008	Vite meisterbock, 1 regolazione, terminale magnete	Meisterbock Screw , Ø18, 2 positions, Magnet Top Terminal, equipped with double thickness set up
50070009	Vite meisterbock, 1 regolazione, terminale magnete	Meisterbock Screw , Ø18, with fixation pin to zero, Magnet Top Terminal
50070021	Vite POT spessore h3	POT screw with Convex Top Terminal
50070022	Vite POT con terminale magnete spessore h3	POT screw with Magnet Top Terminal
50080011	Collare vite meisterbock clamp	Collar clamp element for meisterbock screw or for connection element code 1003309
50080012	Collare vite meisterbock holder	Meisterbock Flangeholder

1.1 ACCESSORI VITI MEISTERBOCK 1.1 ACCESSORIES FOR MEISTERBOCK SCREWS



Codice Code	Descrizione	Description
50201001	Spessore per doppio lamiera Vite Meisterbock.	Thickness plate for Double Thickness control.

Strutture di controllo - Checking fixtures

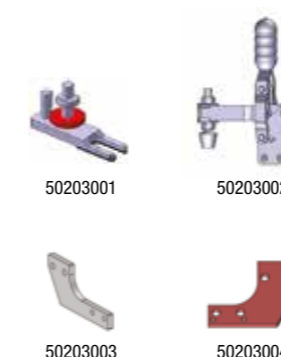


2. TAPPI TESTATE PROFILI 2. BLIND COVERS FOR PROFILES/BARS

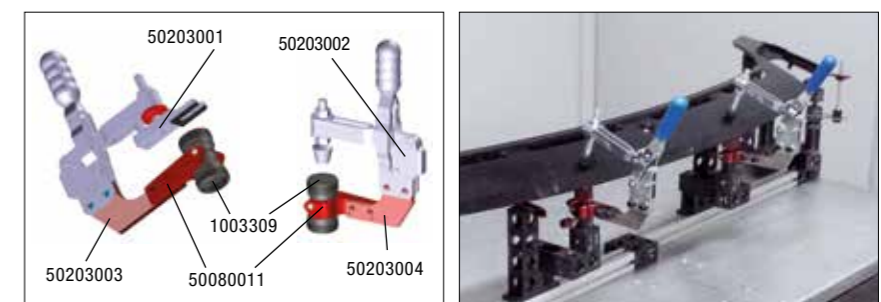


Codice Code	Descrizione	Description
PCC 50X50	Tappo testata profili 50x50mm - plastica	Plastic closing cap 50x50mm
PCC 50X100	Tappo testata profili 50x100mm - plastica	Plastic closing cap 50x100mm
PCC 100X100	Tappo testata profili 100x100mm - plastica	Plastic closing cap 100x100mm

3. STAFFA DI CHIUSURA 3. CLAMP UNIT



Codice Code	Descrizione	Description
50203001	Staffa chiusura clamp da sostituirsi su clamp per avere punto di contatto libero	"U" shape terminal for clamp unit in order to have the "datum point contact" instead of surface contact on clamp unit
50203002	Staffa chiusura, prodotto commerciale	Clamp unit with ratchet grip - No Alukeep made
50203003	Prolunga clamp staffa U	Ratchet Link for Clamp unit
50203004	Prolunga clamp puntale	Extension for Clamp terminal



4. BLOCCO DI RINVIO-SQUADRE
4. BRACKETS FOR STRUCTURE FIXTURE



Codice Code	Descrizione	Description
ALK 117	Porta perno	Bring pin
ALK 118	4 fori da 3mm ottenuti con pezzi da 0,5+1+1,5mm	4 holes 3mm thickness obtained with 0.5+1+1.5 pieces
ALK 119	3 fori da 3mm ottenuti con pezzi da 0,5+1+1,5mm	3 holes 3mm thickness obtained with 0.5+1+1.5 pieces
ALK 120	Supporto a "L" con 2 fori filettati e 4 perni	"L" support with 2 thread holes and 4 pins

5. SLITTE
5. MONO AXIS AND XY AXISES SLIDE ELEMENTS



Codice Code	Descrizione	Description
ALK 002	XY a doppio cursore FAT con movimento micrometrico e posizione zero	XY double slide FAT with micrometrical movement and zero position
ALK 004	XY slitta doppia SLIM con movimento micrometrico e posizione zero	XY double slide SLIM with micrometrical movement and zero position
ALK 115	Slitta X	X Slide



6. VITI MEISTECK RIDOTTE
6. REDUCED MEISTECK SCREWS



Codice Code	Descrizione	Description
ALK 007	Vite meisteck ridotta con magneti	Reduced mbkscrew with magnet
ALK 008	Vite meisteck ridotta	Reduced mbkscrew

7. SISTEMI DI CENTRAGGIO
7. CENTER PIN



Codice Code	Descrizione	Description
ALK 005	PIN mobile con posizione 0	Pin mobile with 0 position

8. SGANCI RAPIDI
8. QUICK CHANGE COUPLINGS



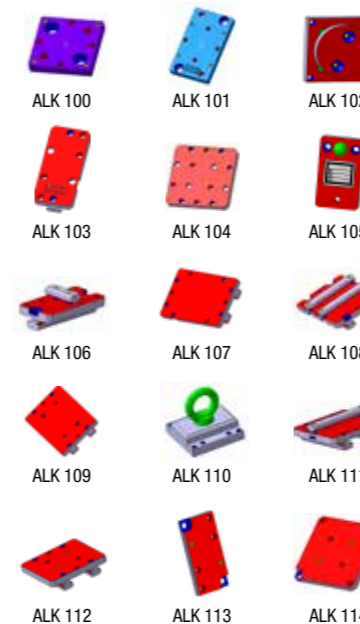
Codice Code	Descrizione	Description
ALK 003QC	Cambio rapido con posizione ON/OFF	Quick Change with ON/OFF position

9. RIBALTABILE
9. TIPPER - FOLDING DEVICE ELEMENT



Codice Code	Descrizione	Description
50060010	Ribaltabile con posizione ON/OFF	Tipper with ON/OFF position

10. PIASTRE
10. PLATE / BASE



Codice Code	Descrizione	Description
ALK 100	Piastra di interfaccia - Adattatore con ALK003 e barra 50x50 (usare RH o LH)	Interface plate Adapter with ALK003 and bar 50x50 (use RH or LH)
ALK 101	Piastra di interfaccia - Adattatore con ALK003 e barra 100x50 (usare RH o LH)	Interface plate Adapter with ALK003 and bar 100x50 (use RH or LH)
ALK 102	Kit di livellamento sotto il telaio base	Leveling kit use under the baseframe
ALK 103	Adattatore per piastra adattatrice per barre di connessione 50x50	Adapter plate use for connection headbars 50x50
ALK 104	Adattatore per piastra adattatrice per barre di connessione 50x50	Adapter plate use for connection headbars 50x50
ALK 105	Kit sfera di allineamento	Alignment sphere kit
ALK 106	Piastra base 50x50 connessione incrociata	Baseplate 50x50 crossconnection
ALK 107	Piastra base 100x100 connessione headbar	Baseplate 100x100 headbar connection
ALK 108	Piastra base 100x100 connessione incrociata	Baseplate 100x100 crossconnection
ALK 109	Piastra base 50x50 connessione headbar	Baseplate 50x50 headbar connection
ALK 110	Piastra per kit di aggancio	Plate for hook kit
ALK 111	Piastra base 100x50 connessione incrociata	Baseplate 100x50 crossconnection
ALK 112	Piastra base 50x50 connessione headbar su 98x98	Baseplate 50x50 headbar connection on 98x98
ALK 113	Piastra base 100x50 connessione headbar per ALK 003	Baseplate 100x50 headbar connection for ALK 003
ALK 114	Piastra base 100x100 connessione headbar per ALK 003	Baseplate 100x100 headbar connection for ALK 003

11. MEISTERBOCKSCREW 4.0
11. MEISTERBOCKSCREW 4.0



Codice Code	Descrizione	Description
ALK 001M35	Meisterbockscrew con morsetto a testa magnetica Braccio L=35	Meisterbockscrew with clamp Magnet head - Arm L=35
ALK 001S35	Meisterbockscrew con morsetto a testa sferica Braccio L=35	Meisterbockscrew with clamp Spherical head - Arm L=35
ALK 001M50	Meisterbockscrew con morsetto a testa magnetica Braccio L=50	Meisterbockscrew with clamp Magnet head - Arm L=50
ALK 001S50	Meisterbockscrew con morsetto a testa sferica Braccio L=50	Meisterbockscrew with clamp Spherical head - Arm L=50
ALK 001M65	Meisterbockscrew con morsetto a testa magnetica Braccio L=65	Meisterbockscrew with clamp Magnet head - Arm L=65
ALK 001S65	Meisterbockscrew con morsetto a testa sferica Braccio L=65	Meisterbockscrew with clamp Spherical head - Arm L=65
ALK 001M80	Meisterbockscrew con morsetto a testa magnetica Braccio L=80	Meisterbockscrew with clamp Magnet head - Arm L=80
ALK 001S80	Meisterbockscrew con morsetto a testa sferica Braccio L=80	Meisterbockscrew with clamp Spherical head - Arm L=80
ALK 001M	Meisterbockscrew senza morsetto a testa magnetica	Meisterbockscrew without clamp Magnet head
ALK 001S	Meisterbockscrew senza morsetto a testa sferica	Meisterbockscrew without clamp Spherical head
ALK 116	Estensione morsetto	Clamp extension

GAMMA PROFILI ALTA QUALITÀ
SERIE HA1, PERFETTO PER
PROGETTI MEISTERBOCK
E STRUTTURE DI FISSAGGIO

HIGH QUALITY BAR
PROFILE RANGE SERIES HA1,
PROFILE BY ALUKEEP SPECIAL
DESIGN FOR MEISTERBOCK AND
CHECKING FIXTURE APPLICATION



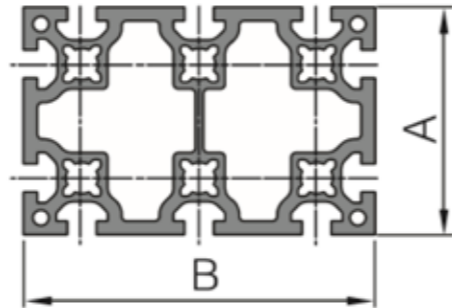
Tutte le superfici ed estremità sono lavorate con un centro di lavoro a 5 assi CNC per raggiungere tolleranze dimensionali e di forma precise, al fine di ottenere punti di riferimento con scostamenti contenuti rispetto al progetto.

All surfaces and ends are machined with a 5-axis CNC machining center to achieve precise dimensional and shape tolerances, in order to obtain reference points with limited deviations from the project.

Il telaio così realizzato, è adatto alla costruzione di calibri e Meisterbock. In questo modo si raggiungono le dimensioni illustrate nelle tabelle seguenti:

The frame thus made is suitable for the construction of gauges and Meisterbock. In this way, the dimensions shown in the following tables are achieved:

Tipo / Type	A	B
Tolleranza / Tolerance	Js9	Js9
HA1.1	50	50
HA1.2	50	100
HA1.3	50	150
HA1.5	100	100
HA1.7	100	150
HA1.9	100	200



Tolleranze geometriche serie HA: / Geometric tolerances HA series:

Planarità superfici / Surface flatness	0.05/500, 0.02/100 mm
Parallelismo facce / Faces parallelism	0.03/500, 0.02/100 mm
Ortogonalità facce / Faces orthogonality	0.05/500, 0.02/100 mm
Rettilinearità / Straightness	± 0.05/1000 mm
Rugosità lavorazioni / Roughness	Ra < 1.6 mm
Lunghezza a misura / Length	± 0.03/1000 mm (°C concordati / agreed)



Lunghezza massima con quote in tolleranza: 4500 mm. A richiesta si eseguono misure speciali.

Maximum length with dimensions in tolerance: 4500 mm. Special measures are available on request.

Si eseguono lavorazioni speciali a richiesta in base a specifica necessità, esempi:

Special machining operations are carried out on request according to specific needs, for example:

- forature a passo costante (esempio: 100 mm ± 0,02 mm); / constant pitch drilling: (example: 100 mm ± 0,02 mm);
- lavorazioni per fissaggio guide a ricircolo di sfere anche con trattamento anti-ossidazione (nero opaco); processing for fixing screw ball guides also with anti-oxidation treatment (matt black);
- lavorazione per il montaggio di piastre, attrezzature e strumentazioni particolari / processing for the assembly of plates, special equipment and instruments.

Esempio di ordinazione per trattamenti standard:

Example of ordering for standard treatments:

Anodizzazione nera opaca min 15 µ	Matt black anodizing min 15 µ	Anodizzazione nera opaca min 12 µ	Matt black anodizing min 12 µ
Rugosità lavorazioni	Roughness	Ra < 1.6 mm	

A richiesta, sono disponibili trattamenti superficiali come ad esempio:

Surface treatments are available on request:

Si eseguono lavorazioni speciali a richiesta in base a specifica necessità:

Special machining operations are carried out on request according to specific needs:

- anodizzazione dura profonda, nera (spessore > 50 µ); deep hard anodizing, black (thickness > 50 µ);
- anodizzazione colorata. colored anodizing.

Consultare il nostro servizio tecnico per approfondire le opportunità.

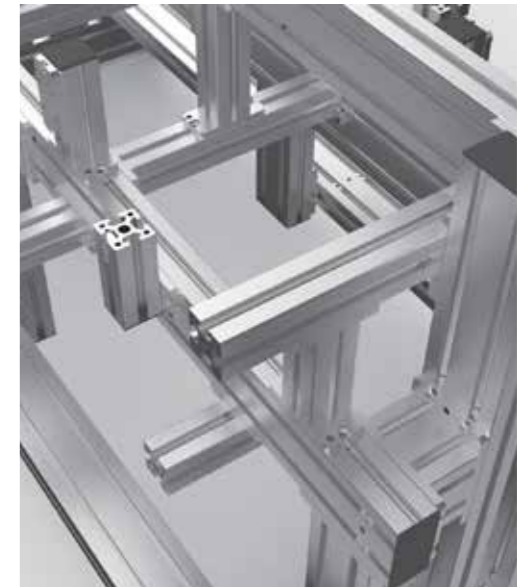
Consult our technical service for any further information.



DATI DEI MATERIALI DEI PROFILATI IN ALLUMINIO PA MATERIAL DATA OF PA ALUMINIUM PROFILES

Lega / Alloy	Al Mg 0.7 Si		
Qualità / Quality	Indurito a caldo (F25) / Hot Hardened (F25)		
Tolleranze / Tolerances	UNI EN 12020-2 (speciali ridotte) / (special reduced)		
Densità - Peso / Density - Weight	δ:	min	2.7 g/cm ³ 98
Resistenza alla trazione / Tensile strength	R _m :	min	245 N/mm ² 148
Limite di snervamento / Strength limit	R _{p 0.2} :	min	245 N/mm ² 198
Allungamento di rottura / Breaking elongation	A:	min	8%
	A ₅ :	min	6%
Modulo E / E Module	E:	70 KN/mm ²	
Durezza Brinell / Brinell hardness	HB	~80	
Superficie / Surface	Anodizzazione naturale satinata spessore strato: 12 µ Natural satin anodizing Layer thickness: 12 µ		
Superficie versione HA / Surface HA version	Anodizzazione naturale satinata spessore strato: 15 µ Natural satin anodizing Layer thickness: 15 µ		
Su richiesta / On request			
Anodizzazione dura profonda nera opaca - Spessore strato: >50 µ Deep Matt Black Hard Anodizing Layer thickness: >50 µ			

Su richiesta del cliente, disponibilità di anodizzazione colorata o verniciatura a polvere in base a tabella RAL.
On customer request, availability of colored anodizing or powder coating based on RAL table.



PVS filettato con inserti per massimi carichi:
richiede trapano fresa con utensile Ø 18,2 mm

Threaded PVS with inserts for maximum loads:
requires drilling with tool Ø 18.2 mm

PVS universale:
richiede trapano fresa con utensile Ø 18,2 mm

Universal PVS:
requires drilling with tool Ø 18.2 mm



MVS per collegamenti rapidi:
richiede solo trapano con punta Ø 8 mm. (Con maschera di foratura è sufficiente un trapano a batteria)

MVS for quick connections:
it only requires drill with tip Ø 8 mm. (With drilling jig is sufficient a drill battery-operated)

I profilati ad alte prestazioni PA offrono notevoli vantaggi in termini: qualità della lega d'alluminio, elevata precisione di forma e rettilinearità, momento d'inerzia, peso, prestazioni, rigidità e resistenza delle connessioni. Sono ideali nella progettazione e realizzazione di sistemi e strutture che richiedono elevata precisione di forma e rettilinearità.

High performance PA profiles offer significant advantages in terms of: quality of aluminium alloy, high accuracy of shape and straightness, moment of inertia, weight, performance, rigidity and strength of the connections. They are ideal in the design and realization of systems and structures requiring high precision of shape and straightness.

I profilati sono studiati anche per essere lavorati e adatti per alloggiare guide o per costruire telai con elevate precisioni geometriche e dimensionali.

The profiles are also designed to be machined and suitable to house guides or to build frames with high geometric and dimensional accuracies.

N.B: molla e sede conica del perno sono comuni / Spring and conical seat of the pin are common

**Progettazione e costruzione di attrezzi di saldatura manuali per prototipi e bassa produzione.
Design and construction of manual welding tools for prototypes and low production.**



Torrette in acciaio ALK2000 da altezza 120 ad altezza 630
ALK2000 steel poles from height 120 to height 630



GO NOGO



Chiusure ad arco e lineari serie ALK 1000 PICCOLE e MEDIE
Arc and linear closures ALK 1000 series SMALL and MEDIUM



Ribaltabili
Foldable



Serie completa di SHIMS serie ALK118 da 3 o 4 fori da spessore 0.1 a spessore 1.5
Complete series of SHIMS ALK118 series with 3 or 4 holes from thickness 0.1 to thickness 1.5



Dime mobile di controllo
Foldable template



Serie completa di squadrette 3 o 4 fori con fori di spina e filettati
Complete set of 3 or 4 hole brackets with pin and threaded holes

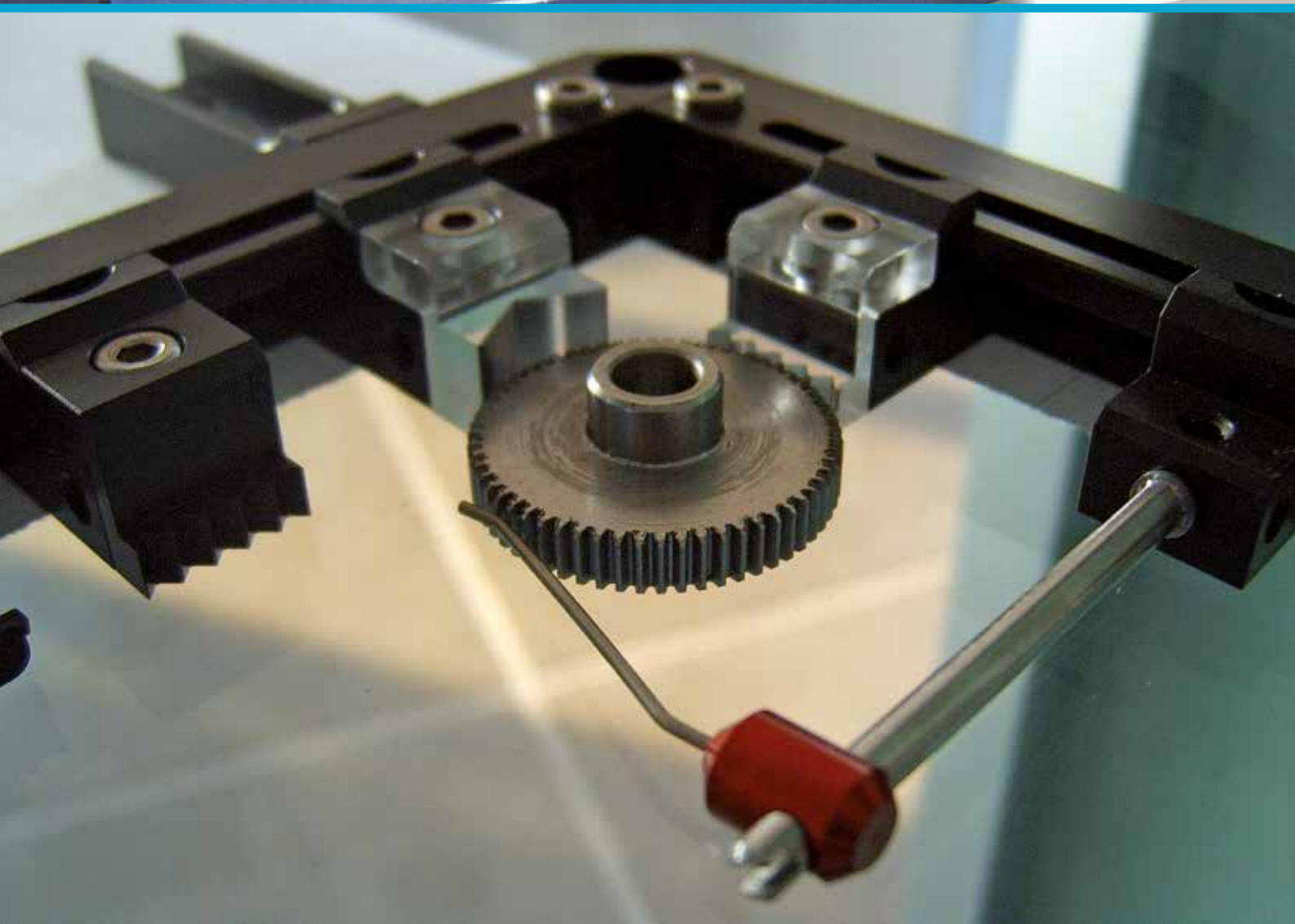


Torrette in acciaio ALK2000 in alluminio da altezza 120 a 630
ALK2000 Aluminum poles from height 120 to height 630



SISTEMA MODULARE DI STAFFAGGIO
PER MACCHINE OTTICHE

MODULAR FIXTURING SYSTEM
FOR OPTICAL UNIT



COME SELEZIONARE I COMPONENTI DEL SISTEMA PER MACCHINE OTTICHE

HOW TO SELECT THE ITEMS FOR OPTICAL FIXTURING SYSTEM

Step 1:

- In base alla larghezza campo di lavoro della macchina, selezionare gli elementi lineari.
- Select the linear frame according to the Optical Unit working area.

Esempio / Example:

qty 1 - 2001130

qty 1 - 2001120

for "L" shape / per forma a "L"

Extra Linear frame required for "U" shape or for internal section in the working area / Profilo extra lineare richiesto per forma a "U" o per sezione interna nell'area di lavoro

Step 2:

- Selezione degli accessori per fissaggio.
- Selection of the accessories for fixing the rail on the Optical Unit.

2002100:

- Almeno uno per bloccaggio elemento lineare al piano macchina.
- At least one each rail for fixing the linear rail.

2002101:

- Articolo necessario per unire a 90° i due profili della cornice.
- This item is required for locking at 90° the two linear frames in order to get a "L" shape.

2002102 - 2002103:

- Questo articolo serve per poter fissare un secondo profilo da posizionare all'interno del campo di lavoro, in modo di avere uno staffaggio.
- This item is required when you want to attach a linear frame in the middle of workign area.

2002105:

- Elemento universale che verrà utilizzato come connessione tra il profilo esterno e terminale di appoggio, colonna, molla o altro. La Qtà dipende dal numero degli elementi terminali. L'elemento porta più fori di fissaggio.
 - Universal Joint element utilized for the connection between the external frame and all top terminal range as column, fixing block "v" terminal and more.
- The qty is going to be selected depending on the qty of terminals. The universal joint element has different holes for locking of top terminals and accessories at different positions.

2002106,7,8,9 - 2002110,11,12,13:

- A seconda dell'applicazione, disponibili estensioni in orizzontale o verticale per miglior posizionamento componente da misurare.
- Depending on the application, horizontal or vertical extension can be required for better component set up.

Step 3:

- Selezione dei terminale di appoggio.
- Selection of the top terminal.

Step 4:

- Selezione del terminale di bloccaggio. La colonna può essere utilizzata sia come porta molla sia come punto di battuta.
- Selection of the clamping element. The Column Pin can be used both as holder element of the spring and as stopper position element.

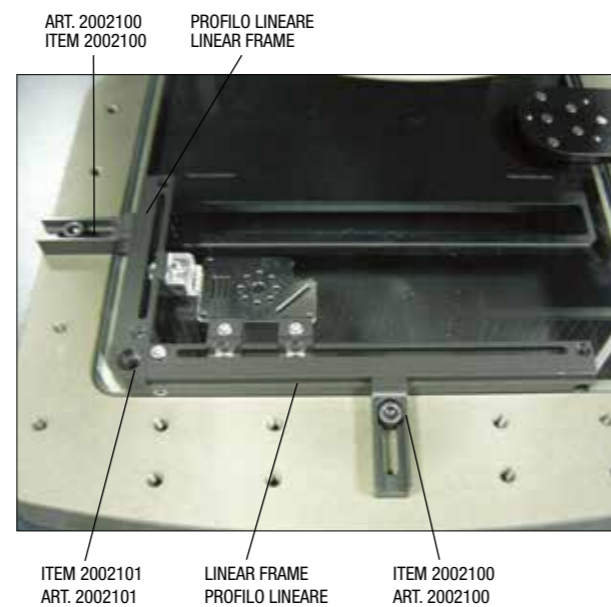
Step 5:

- Selezione di colonne e perni di bloccaggio.
- Selection of adjustable columns and pins.

Step 6:

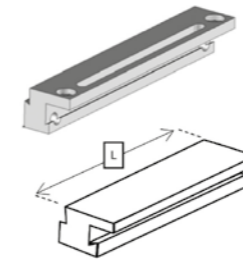
2004151 - Adjustable column / Colonna registrabile:

- Se il cliente è alla ricerca di posizionare il componente non a contatto con il vetro macchina, oltre alla selezione della colonna rif. codice 2004151, si passa ad analizzare i terminali con attacco a codolo a seconda della forma del componente da misurare.
- If the customer is looking to measure a component lift up - not in contact with the optical unit glass, after selecting the adjustable column ref. code 2004151, the top stud top element are analyzed according to the shape of the component to be measured.



1. ELEMENTI BASE LINEARE CORNICE (2001XXX)

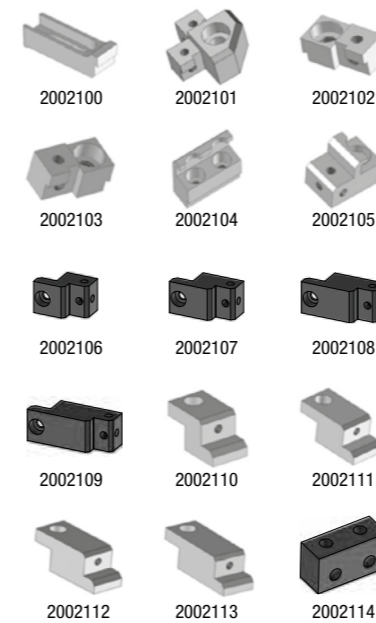
1. FRAME BASE (2001XXX)



Codice Code	Descrizione	Description
2001110	Profilo esterno lunghezza 100 mm	Linear Frame length 100 mm
2001115	Profilo esterno lunghezza 150 mm	Linear Frame length 150 mm
2001120	Profilo esterno lunghezza 200 mm	Linear Frame length 200 mm
2001125	Profilo esterno lunghezza 250 mm	Linear Frame length 250 mm
2001130	Profilo esterno lunghezza 300 mm	Linear Frame length 300 mm
2001140	Profilo esterno lunghezza 400 mm	Linear Frame length 400 mm

2. ELEMENTI CONNESSIONE ED ADATTATORI (2002XXX)

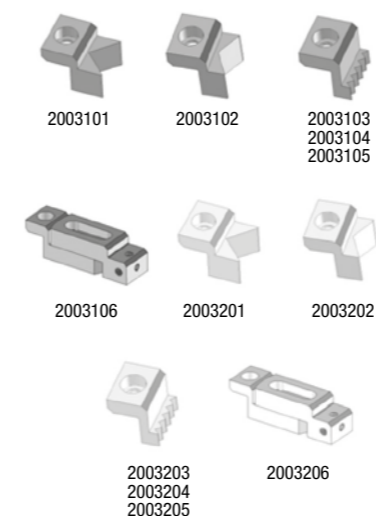
2. CONNECTION ELEMENTS AND ADAPTERS (2002XXX)



Codice Code	Descrizione	Description
2002100	Elemento Fissaggio Base Lineare	Element to lock the Linear Frame
2002101	Elemento Connessione Angolare	Linear Frame Base Corner Joint Element
2002102	Giunto lato sinistro Base Lineare Cornice	Left edge Joint Element
2002103	Giunto lato destro Base Lineare Cornice	Right edge Joint Element
2002104	Giunto centrale Base Lineare Cornice	Central Joint Element
2002105	Elemento di Connessione Standard	Standard Base Fixing Block
2002106	Modulo prolunga lunghezza 15 mm	Extension Base with 15 mm lenght
2002107	Modulo prolunga lunghezza 20 mm	Extension Base with 20 mm lenght
2002108	Modulo prolunga lunghezza 25 mm	Extension Base with 25 mm lenght
2002109	Modulo prolunga lunghezza 30 mm	Extension Base with 30 mm lenght
2002110	Modulo prolunga verticale 10 mm	Extension Base 10 mm higher
2002111	Modulo prolunga verticale 15 mm	Extension Base 15 mm higher
2002112	Modulo prolunga verticale 20 mm	Extension Base 20 mm higher
2002113	Modulo prolunga verticale 25 mm	Extension Base 25 mm higher
2002114	Elemento di connessione profili esterni a 180°	Join element of two external linear frame at 180°

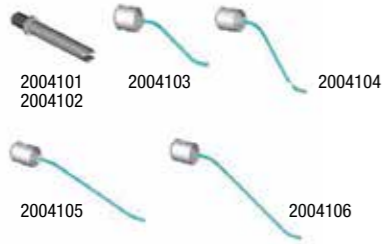
3. ELEMENTI TERMINALI (2003XXX)

3. TOP ELEMENTS (1003XXX)



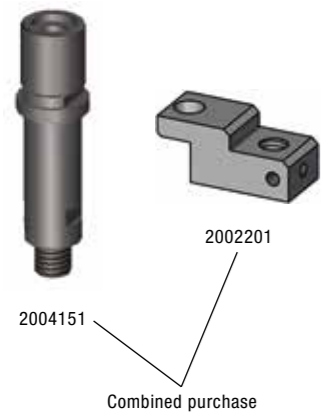
Codice Code	Descrizione	Description
2003101	Appoggio a V di 90°	Block with single V shape 90° degree
2003102	Appoggio a V di 120°	Block with single V shape 120° degree
2003103	Appoggio piano V multiple lungo 15 mm	Fixing Block with multiple V shape length 15 mm
2003104	Appoggio piano V multiple lungo 45 mm	Fixing Block with multiple V shape length 45 mm
2003105	Appoggio piano V multiple lungo 90 mm	Fixing Block with multiple V shape length 90 mm
2003106	Prolunga assoluta regolabile	Fixing Block with Upper Base adjustable position
2003201	appoggio a V di 90° Plexiglas	Block with single V shape 90° degree Plexiglas
2003202	appoggio a V di 120° Plexiglas	Block with single V shape 120° degree Plexiglas
2003203	appoggio piano V multiple lungo 15 mm Plexiglas	Fixing Block with multiple V shape length 15 mm Plexiglas
2003204	appoggio piano V multiple lungo 45 mm Plexiglas	Fixing Block with multiple V shape length 45 mm Plexiglas
2003205	appoggio piano V multiple lungo 90 mm Plexiglas	Fixing Block with multiple V shape length 90 mm Plexiglas
2003206	prolunga assoluta regolabile Plexiglas	Fixing Block with Upper Base adjustable position Plexiglas

4. ELEMENTI RITENZIONE E PRESA (2004XXX)
4. CLAMPING ELEMENTS (2004XXX)



Codice Code	Descrizione	Description
2004101	Asta per molla lunghezza 25 mm	Spring Pin length 25 mm
2004102	Asta per molla lunghezza 50 mm	Spring Pin length 50 mm
2004103	Molla L = 40 x 10 mm	Spring L = 40 x 10
2004104	Molla L = 40 x 20 mm	Spring L = 40 x 20
2004105	Molla L = 60 x 10 mm	Spring L = 60 x 10
2004106	Molla L = 60 x 20 mm	Spring L = 60 x 20

4.15. COLONNE REGISTRABILI SERIE OPTALK PER TERMINALI CON ATTACCO A CODOLO (Ø12,5mm) (10051XX)
4.15. ADJUSTABLE COLUMN FOR PULL STUD TOP ELEMENTS 12,5 Ø (10051XX)



Codice Code	Descrizione	Description
2004151	Colonna registrabile Ø12,5 M-F M8-M8 / 50-70mm	Adjustable column, 50-70mm, diameter 12,5mm
2002201	Adattatore colonna M8	Adjustable column adapter diam. M8



5. ELEMENTI POSIZIONAMENTO E PRESA (2005XXX)
5. CLAMPING ELEMENTS (1005XXX)



Codice Code	Descrizione	Description
2005101	Perno lunghezza 40 mm	Pin length 40 mm
2005102	Perno lunghezza 60 mm	Pin length 60 mm
2005103	Perno lunghezza 80 mm	Pin length 80 mm
2005104	Perno lunghezza 100 mm	Pin length 100 mm
2005105	Torretta Perno con 3 posizioni fisse	Block with 3 fix Pin positions
2005106	Torretta Perno regolabile Altezza	Block with Adjustable Higher Pin Position

6. ELEMENTI POSIZIONAMENTO E PRESA (2005XXX)
6. CLAMPING ELEMENTS (1005xxx)



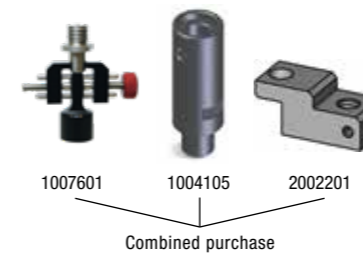
Codice Code	Descrizione	Description
2006101	Supporto fisso	Block with fix Stud Terminal position
2006102	Supporto regolabile	Block with adjustable Stud Terminal position

7. FISSAGGIO ELEMENTI CON TERMINALE CODOLO (10014XX)
7. SJS BLOCK AxBxC (10014XX)



Codice Code	Descrizione	Description
1005101	Puntale 90°	Center 90 degree pull stud 12.5 diameter
1005102	Puntale 60°	Center 60 degree pull stud 12.5 diameter
1005103	Appoggio piano	Flat pull stud 12.5 diameter
1005104	Appoggio vertici 90°	Stop and support 90deg pull stud 12.5 diameter
1005105	Appoggio spigoli 180°	Stop and support 180deg pull stud 12.5 diameter
1005106	Appoggio con sfera flottante spianata	Floating plane pull stud 12.5 diameter
1005107	Appoggio con magnete	Magnet plane pull stud 12.5 diameter
1005108	Appoggio v 90°	V block 90deg pull stud 12.5 diameter
1005109	Appoggio v 120°	V block 120deg pull stud 12.5 diameter
1005110	Riferimento laterale con spina 6 mm regolabile	Side pin adjustable reference pull stud 12.5 diameter
1005111	Appoggio con filetto m8	M8 tapped element with pull stud 12.5 diameter
1005112	Cilindro lavorabile dedicato l=15	Customizable Pull Stud 12.5 diameter l=15mm
1005113	Cilindro lavorabile dedicato l=25	Customizable Pull Stud 12.5 diameter l=25mm

8. MORSE (10073XX)
8. VISE SETS (10073XX)



Codice Code	Descrizione	Description
1007601	Micro morsa regolabile con trazione perno Ø 12,5mm, gamma 0-15mm	Adjustable micro vise with pull stud 12,5mm Ø, range 0-15mm
1004105	Colonna porta appoggi con codolo l=30	12.5mm DIA column for pull stud top elements
2002201	Adattatore colonna M8	Adjustable column adapter diam. M8



1007601
Micro morsa regolabile
Adjustable micro vise



1004105
Adattatore
Adaptor

9. CHIAVI ESAGONALI STANDARD E SPECIALI (2008XXX)
9. SPECIAL HEXAGONAL KEY AND TOOL (2008XXX)



Codice Code	Descrizione	Description
2008101	CHIAVE SPECIALE misura 3mm	Special Tool Key 3mm



DIME DEDICATE CONTROLLO
TOLLERANZA IN PRODUZIONE
DEDICATED JIG FOR MEASURING
OF PLASTIC COMPONENT



CUBING E PCF
MASTER CUBING AND PCF




FAST, SIMPLE, FLEXIBLE, PRECISE, ECONOMICAL

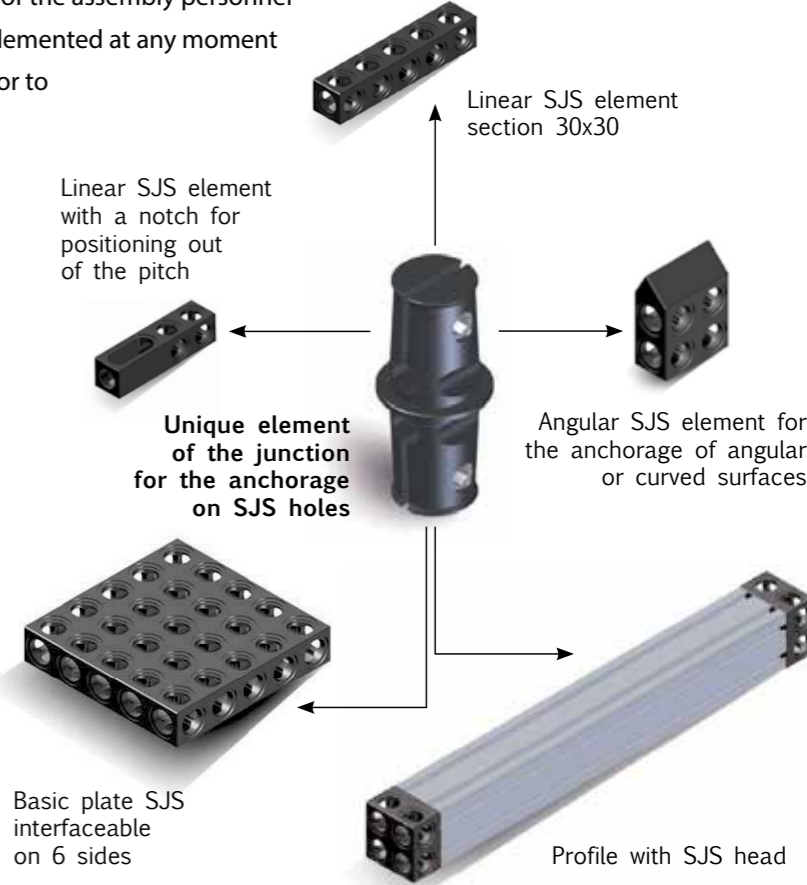
The modular fixturing system, used for repeatable positioning of to-be-tested components with tactile and photometric measuring devices or scanning laser. The Alukeep system, thanks to the simplicity of use and to a complete range of elements, consists of and thanks to the reduced set-up time, has achieved remarkable success on the international level.

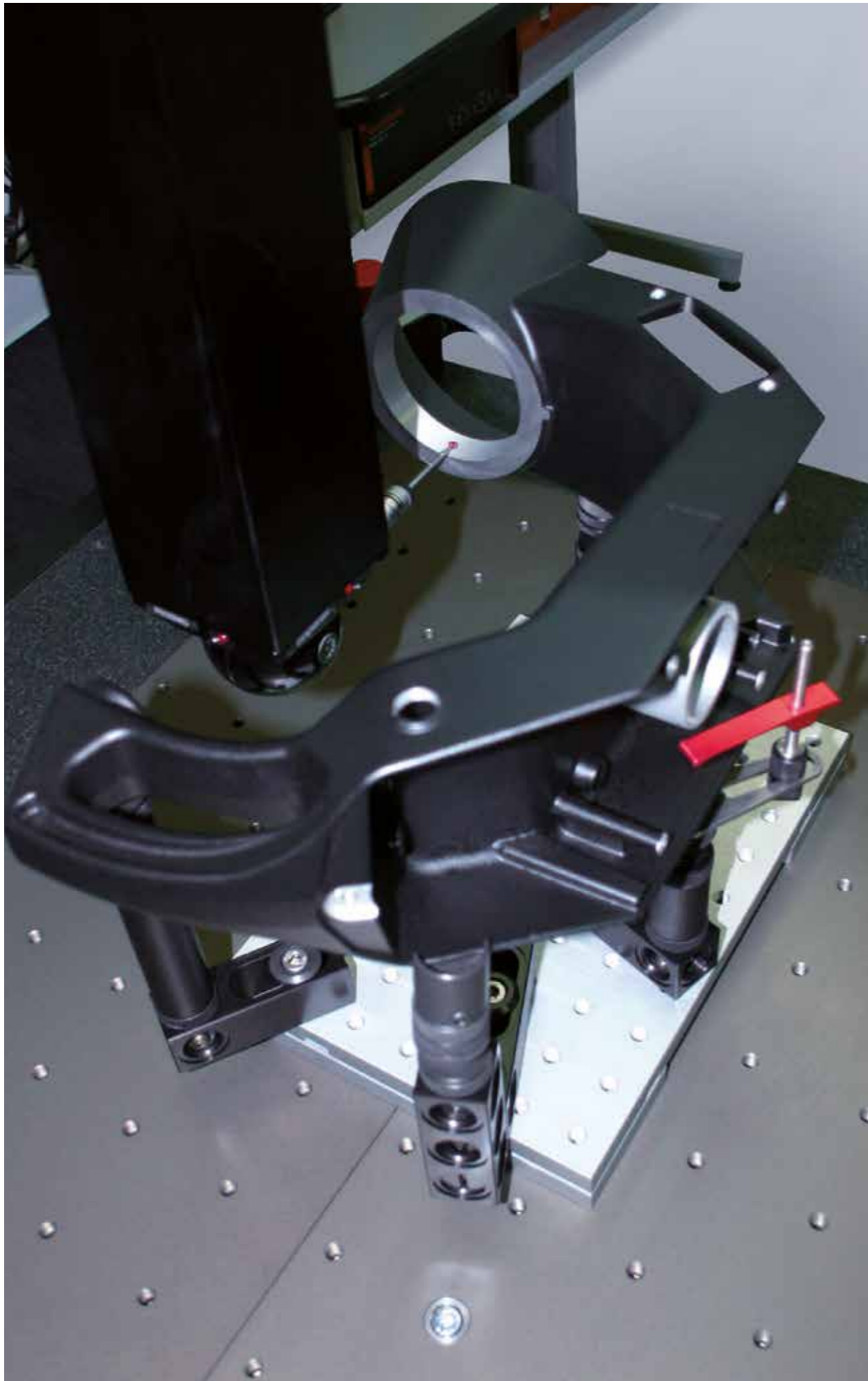
The Alukeep system allows quick verification of the production as well as in REAL-TIME, performing all the modifications necessary for avoiding a high quantity of scraps and defective parts.

A SIMPLE SYSTEM JOINED QUICKLY: SINGLE JOINT SYSTEM.

Thanks to the „SJS“ (Single Joint System) patent  the system allows to join - in one operation and with a single joint - different elements of the structure thus increasing the speed by which various components are joined in order to form a new fixture.

The joint of various terminals of use is blocked by a common hexagonal key improving the efficiency of the assembly personnel in charge of it. The structure can be implemented at any moment without having to remove any element or to dismantle any part. The joint is unique in the measure of the coupling in order to simplify and reduce the variables to the minimum. Reticular and linear elements maintaining the pitch of the hole at 30 mm or its multiple, allows easy calculating of the number necessary for the required quota.



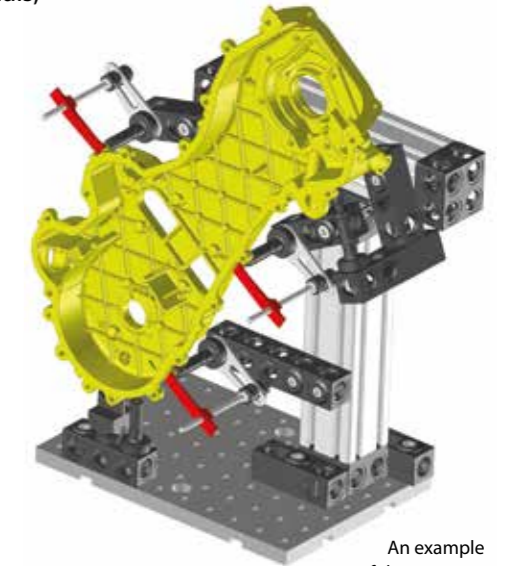


FLEXIBILITY AND ITALIAN TECHNOLOGY: WINNING COMBINATION.

The whole range of reticular elements, elements of connections, terminals, shafts, joints and bases allows performing all required configurations - thanks to the constructive philosophy of the Alukeep system guaranteeing larger and better space around the element to be checked. The Alukeep system is particularly suitable for the following sectors: AUTOMOTIVE, AEROSPACE, BIOMEDICAL, MOULDING AND CASTING.

It is completely constructed in Italy following the most rigorous procedures of quality control, using CNC unit with HSM technology and 5-axis continual control with high precision.

The elements are in aluminium with superficial treatment of high resistance. The SJS joint (patented), keeping the use it was conceived for, has an unlimited guarantee.



An example of the structure realized by Alukeep system for the check of a particular die-cast.

ONLY IMPORTANT AND USEFUL COMPONENTS. MAXIMUM ECONOMY.

The patented SJS joint is the heart of a genial system that guarantees the maximum economy.

Alukeep philosophy goes in the opposite direction compared to modular systems that tend to offer a big quantity of elements, even those not very useful, with consequent costs for supplying, management, and storing.

It's not in the clients' interest to pay in the fixture kit articles as screws, bushings, washings, keys-tools or gauges.

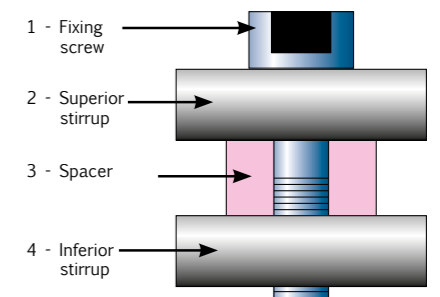
The Alukeep system offers the client only elements that are useful and essential.

Alukeep is an innovative technology because it guarantees the same applications with a smaller purchase of the elements.

This is an advantage for new users of the modular systems as well as for all the users that have already purchased the systems from competitors.



A unique Alukeep junction element



DEDICATED WELDED STRUCTURE OR MODULAR ALUKEEP SYSTEM?

COMPARISON OF COSTS FOR REALIZING A STRUCTURE ON CMM FOR MEDIUM OR BIG ITEMS.

FIRST CONFIGURATION

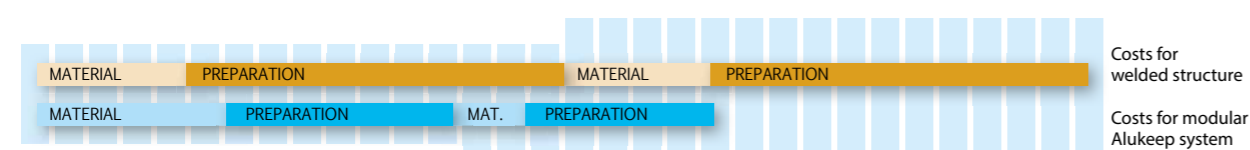


The configuration with modular elements requires a different investment in terms of material compared to the welded one and presents the following advantages:

1. time needed for the study and the preparation is considerably shorter;
2. it maintains a great adaptability in the phase of verification of possible repairs.

FIRST CONFIGURATION

SECOND CONFIGURATION



The advantage in purchasing the material: at higher costs of the first modular realization compared to a fixed configuration, a second configuration follows with the integration of only necessary elements which, compared to the double costs on the fixed construction, create significant savings.

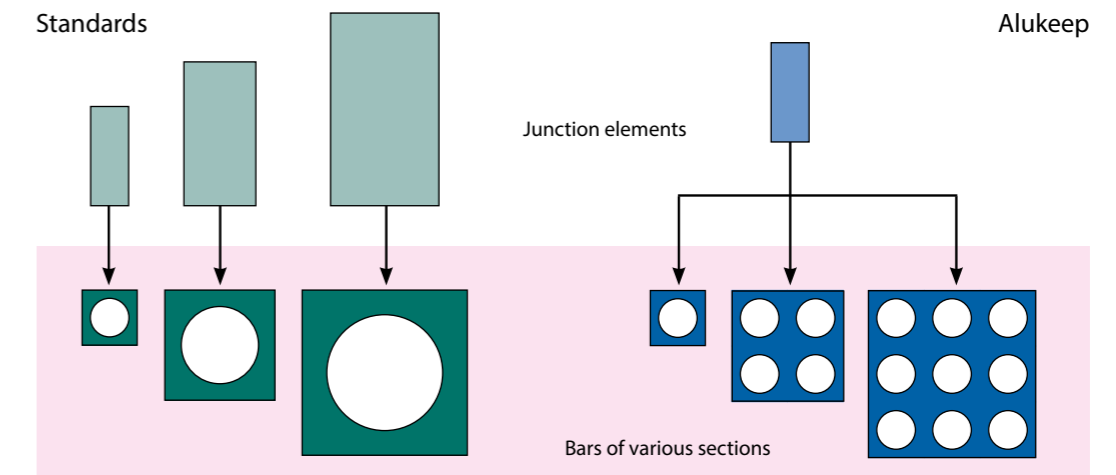
The advantage in the system preparation: out of the sources already used for the first modular system only those that are really necessary will be modified; moreover, the system is more adaptable in the verification phase as it contains a set of adjustment instruments which allow a rapid correction in the metrology room which would be impossible to reach in the case of a welded configuration.

Other advantages:

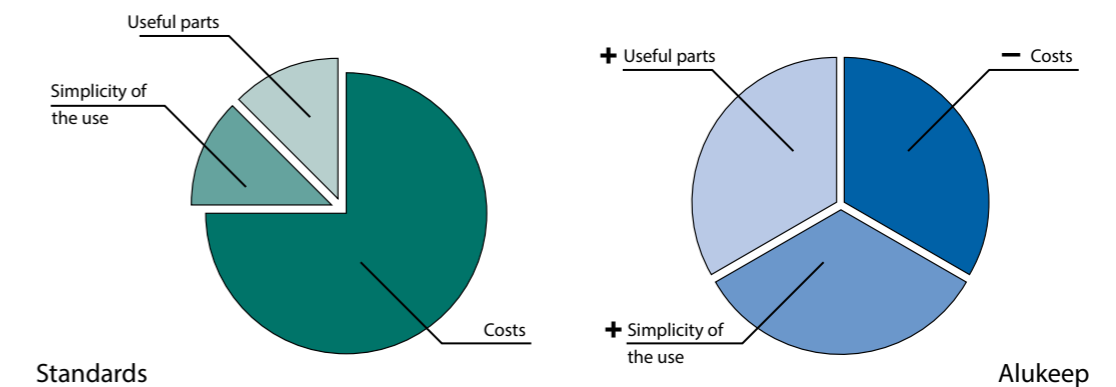
- 1 - space necessary for storing, better stock management;
- 2 - personnel dealing with the adjustment and modification of the structure is independent;
- 3 - economically even more convenient for prototyping or production of small parts.

THE ADVANTAGES OF THE ALUKEEP SYSTEM. MODULARITY AND FLEXIBILITY.

The comparison between the elements on the same technical level which allow maximum ADAPTABILITY, with all the possible adjustments on the base and on the profiles, points out how the Alukeep system uses a smaller total number of parts than other systems, keeping the same functions.



It is easy to understand the following graphs:



Other advantages of Alukeep:

- 1 - less time for the study, configuration and the effectivity of the physical preparation;
- 2 - greater adaptability in the verification phase for possible required corrections;
- 3 - bigger space available around the object itself.



FAQ

Answers to Frequently Asked Questions.

- 1 What does the modular Alukeep system serve for?**

Alukeep is a versatile system particularly used in Quality Control for the realization of measurement structures. For the measuring processes it is necessary to block the element to be measured in the space and ensure repeatable positioning with maximum precision and reliability.
- 2 Why is a modular system better compared to a dedicated system?**

It allows complete use of the 3D space guaranteeing greater and better movements to the measuring instruments. – It offers a better repeatability of the positioning of the object to be checked. It allows a consequent re-use for other applications with better timing. The cost in the middle-long term becomes lower. – The stock of the modular system requires lesser space.
- 3 What are the advantages of the Alukeep system compared to the competitors?**

A patented SJS joint allows great versatility and economy. Thanks to the SJS joint, our philosophy goes in the opposite direction compared to other manufacturers of modular systems that tend to deliver a huge quantity of elements, not always useful, with additional costs for supplying, management and storing. The modular Alukeep system doesn't use screws or bushings for fixing the elements but simply an SJS joint. With the only 4mm hexagonal key an operator builds a structure. – It takes less time to implement existing structures with the addition of other elements. The continuously expanding range of elements allows the system to be used for future applications too. The production of specific elements according to the drawings for customers in direct contact with our R&D department. - The rapid manual process of loading and unloading a new basic plate thanks to the self-centering plate system.
- 4 Can the Alukeep system find application also with customers that already own a modular system from a different manufacturer?**

Yes, it can. Alukeep is a perfect partner also for other systems on the market. This allows implementing and developing mixed structures adding our uniqueness to the quality of the measurement systems of other manufacturers in terms of flexibility, practicality and economy.
- 5 What is the minimum and maximum size of the element to be measured supported by the Alukeep system?**

The dimensions are very variable, from elements of a few millimetres (electronic cards) to measures or sizes measurable in metres (parts of planes or cars).



6

What terminals are available for fixing the object to be measured?

In the catalogue there are numerous elements of the Alukeep production as well as commercial elements for infinite solutions.

7

Which are the major fields where the Alukeep system is used?

Mechanical, automotive, aerospace, biomedical, die-casting and others. In short, a complete range of CMMs, measuring machines in general, is an ideal partner for the Alukeep fixturing system.

8

How much time is required for the installation of one structure of medium dimensions?

It depends on the object that is measured. On average approximately 25 minutes. The time required and the application of the modular systems depend on the dexterity of the personnel involved and their ability to prepare the caliber and also on the frequency of the operations.

9

How much time is necessary for the control process from one article to another one using?

Thanks to our rapid change system, it takes just a few minutes to prepare and start scanning the following element.

10

Is the Alukeep system metric or in inches?

Metric, 30mm pitch, or multiples of this pitch for Alukeep KIT. Metric, 50mm pitch, or multiples of this pitch for Alukeep Meisterbock.

11

Is it possible to purchase a fixture plate separately? What are the dimensions of its holes?

Yes, it can be purchased separately, in various dimensions. Alukeep plates are standard with the following characteristics: holes M8 pitch 30 mm, they are available in two types of plates, fixed or with rapid change – self-centering; the plates can be used on any side; they can be supplied without holes for dedicated structures.



- 12** **What is the standard colour for the Alukeep system elements?**
 Alukeep is produced in light alloy with superficial treatment in black colour. Also the colour of yellow gold is available. The bases are grey. We have chosen the black colour in order to achieve a versatile use with different metrological methods: photometric – tactile – scanning.
- 13** **Where is the Alukeep system produced, what is the warranty and delivery times?**
 Alukeep is a technology patented in Italy, developed in Germany and produced in Verona, covered by a one-year warranty from the purchase. The material is available in stock with a delivery time of 1 week from the confirmation of an order, including transport throughout the European Union. Deliveries out of Central and Eastern Europe are mostly processed with a higher priority at the production level in order to compensate for any possible waste of time caused by customs clearance
- 14** **Can the system be delivered assembled or with detailed instructions on how to complete the structure?**
 Yes, the Alukeep system is supplied assembled or a CAD project is supplied with a list and a three-dimensional file of elements used in CATIA or STEP format and an instructional video with a guide on how to assemble the structure.
- 15** **Can elements be supplied according to a client's drawing?**
 The company Alukeep is able to construct checking calibres according to a drawing, with unique elements according to customers' demands.
- 16** **Can the company Alukeep manage a customer's stock?**
 Yes, they can. It is a service created particularly for customers with a wide range of products. Alukeep offers its customers a data storage of the whole range of purchased elements. The list is always updated when a customer purchases our product directly or indirectly.
- 17** **Can the company Alukeep manage a complete Meisterbock project?**
 Yes, they can. Alukeep can design, built, install and measure Meisterbock projects in all over the world.



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