MicroLoc®

Advanced Referencing Workholding Systems

Production • Automotive • Aerospace • Sub-Con

workholding

Whatever your requirements, we can provide a workholding system that's right for you.

If you are looking for a versatile, general-purpose, system for sub-contract work, that will grow with your workload, then consider our standard kits.

If you need something for a particular job, but with an eye on future work, we can offer a customised system that will improve your productivity, but won't get put under the bench when the first job is finished.

With a MicroLoc Kit you can:

Save money (standard kits are generally 10-15% less than the sum of the parts when bought separately. We manufacture in quantity, so you save.)

Know exactly what you are buying. Instantly. All of our kits are comprehensively listed, so it's easy for you to choose.

Expand as your budget permits. Kits can be mounted side-by-side, so MicroLoc can expand with your workload.

Have ex-stock delivery. Next day. If you have an urgent requirement, we can help.

Use our standard table clamps to mount the kit base onto your table, or, if you prefer, you can machine your own fixing holes to suit your specific machine table or cube. (We recommend M12 fixings and we can advise on this when you are considering a purchase.)

With MicroLoc customised service you can:

Save money. Hold many parts within the same area that previously held one or two parts in a huge vice. MicroLoc can often compare very favourably with the cost of a dedicated fixture. MicroLoc is competitive on price with multi-vice set-ups and has the advantage of future adaptability.

Choose a set-up to suit your requirements. Whether you are looking for a baseplate to fit your machine table and hold a family of large moulds, or if you need a small fixture to clamp a number of small telecom parts, we can help. We will provide fixing holes to suit your machine. We can custom your baseplate to suit a particular pallet or cube. We can supply cubes, tombstones and trunnions configured with MicroLoc. Try us.

contents

is it a vice?

yes *it can do what a vice can do*

Sure, **MicroLoc** has vice-like jaws in which one clamping station might hold one part, and you can gang the jaws together to provide the equivalent of, say, an eight inch vice, and you can fit aluminium or steel soft jaws or vee-jaws......

But isn't that missing the point of **MicroLoc**?

no it's **more** *than a vice!*

Use **MicroLoc** as a vice substitute if you wish, but that would be missing out on all the additional features that **MicroLoc** has to offer.

All **MicroLoc** baseplates have the facility to rotate clamping elements through 90 or 180 degrees, which will allow four-edge clamping of, for instance, a large mould, using exactly the same elements that, perhaps, yesterday you used to clamp a number of valve blocks, and which tomorrow you will use to grip a pair of long, round bars horizontally. All in accurate locations. So you can multi-part load, or mount one-offs, or a mixture of both, all with the same kit. That's versatility.

OK, so you need to buy a **MicroLoc** baseplate to enjoy the full versatility and accuracy of the system. (We don't insist on it. If you just wish to buy some clamps, that's fine.) But then you will probably want to be clamping at least six components at a time, and if you were using vices regularly these would really need to be mounted on a sub-table of some description, the cost of which redresses the balance somewhat in our favour.
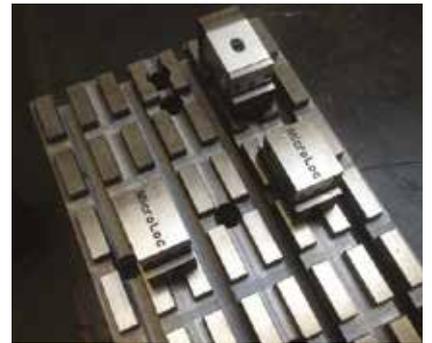
versatile

four ranges to choose from:

50 Series

Baseplates with t-slots at 50mm pitch, from 300x200x55mm up to 1450x650x55mm. Your choice of t-slots in X or Y, with provision included for four-edge clamping. Three effective widths of clamping jaw: 34mm, 42mm, and 82mm (between stops). Full range of jaw accessories.
Standard kit size 300x200x55mm.

60 Series

Baseplates with t-slots at 60mm pitch, from 300x180x55mm up to 1440x660x55mm. Your choice of t-slots in X or Y, with provision included for four-edge clamping. Two effective widths of clamping jaw: 34mm and 42mm (between stops). Full range of jaw accessories.
Standard kit size 360x240x55mm.
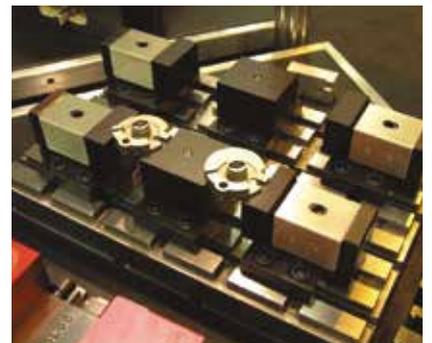
75 Series

Baseplates with t-slots at 75mm pitch, from 375x225x55mm up to 1425x675x55mm. Choose from t-slots in X, Y, or (at a small extra cost) in X and Y. Two effective widths of clamping jaw: 42mm and 60mm* (between stops). Full range of jaw accessories.
Standard kit size 450x300x55mm.

100 Series

Baseplates with t-slots at 100mm pitch, from 400x300x55mm up to 1400x600x55mm. Tslots in X and Y as standard. One effective width of clamping jaw: 82mm* (between stops). Full range of jaw accessories.
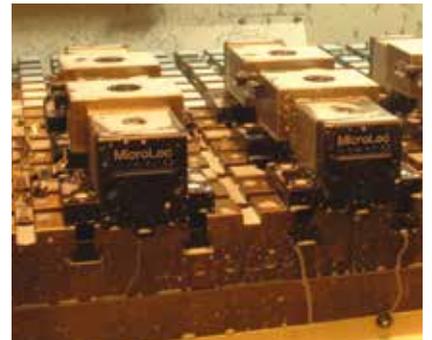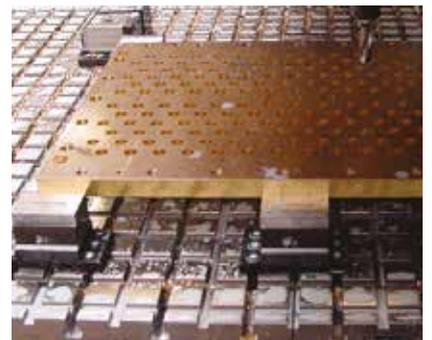Standard kit size 600x400xx55mm.

*Manual and hydraulic versions available

accurate
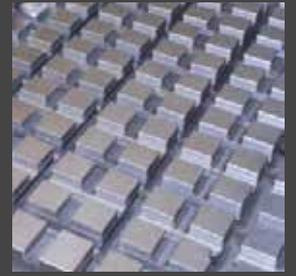
Integer location

How it works

The components you wish to hold are clamped against a fixed jaw, and this jaw gives accurate location of each component in X, Y, and Z to aid programming.

Every locator has tenon key positioning into cross-slots on the baseplate, to give you quick and easy offsets from any chosen datum point on the baseplate to the faces of all the locator jaws (and hence components) on the baseplate. So, to find where your parts are positioned relative to each other, just count the offsets from your chosen datum.

We grind our case-hardened jaws to ±10 microns relative to the tenon keys, and machine our baseplates to a similar tolerance over one metre, giving a system repeatability accuracy of ±25 microns.

The clamping jaw has a rack in the underside, which engages fully into a repositionable rack in the baseplate, for coarse setting using a component as a template. To set a row of components, simply match the number of teeth exposed in the loose rack.

Secure

Because there is always solid metal behind and beneath every component supported on MicroLoc, a very stable and secure machining platform is achieved, which helps to reduce vibration, noise, and even prolongs tool life.

Also, the novel geometrical design of our clamping jaw allows it to swivel slightly when tightened onto a component (up to 1mm across the jaw width), so there is always two-point clamping across the face of any prismatic part.

applied *force*

clamping *force*

stabilising *force*
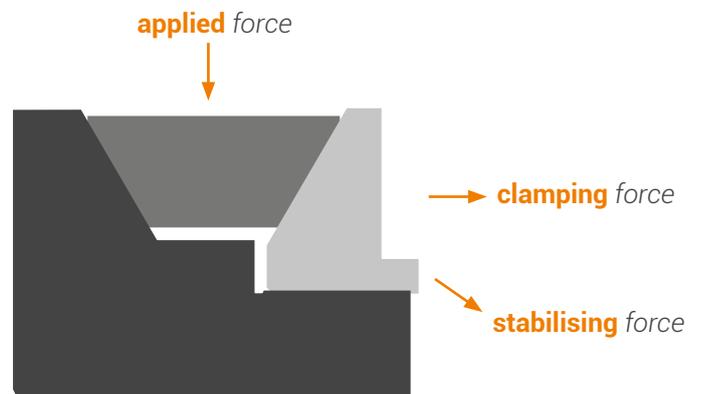
how it works in

Step 1

Mount the baseplate to your machine table t-slots using a pair of bore tenon adapters fitted to 16mm bores in the underside of the MicroLoc baseplate.

Step 2

Insert locators carefully into the desired positions.

Step 3

Slide in sideclamps and tighten.

Step 4

Position clamping jaws by placing a loose rack into cross-slots in the baseplate.

8 easy steps
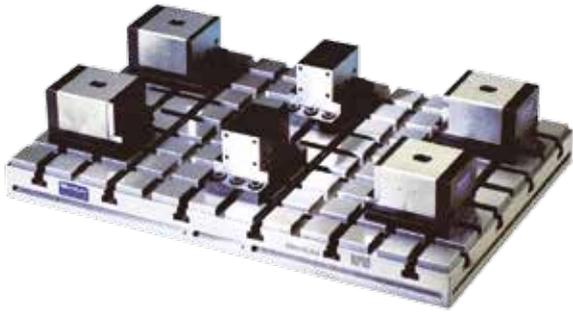
Step 5

Using a component as a template, engage the rack in the underside of the clamping jaw into the loose rack to locate the component within 3mm.
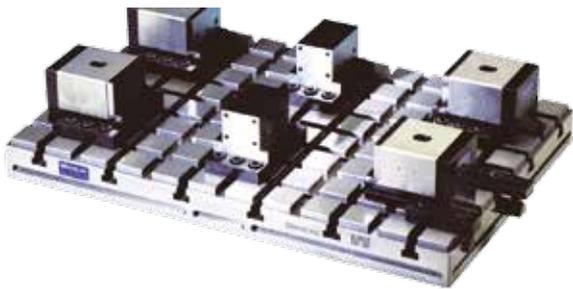
Step 6

Each size of clamping unit has a sliding jaw with a stroke in excess of 3mm. Again, slide in sideclamps and tighten.
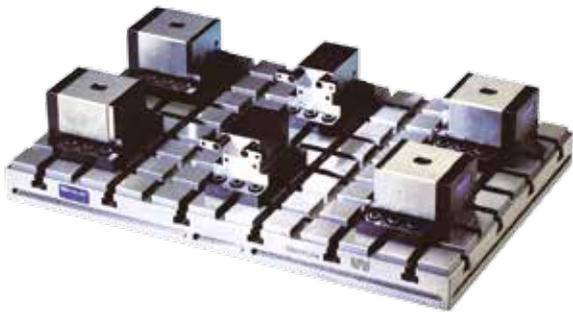
Step 7

Determine by inspection the number of end-stops and spacers to be fitted.
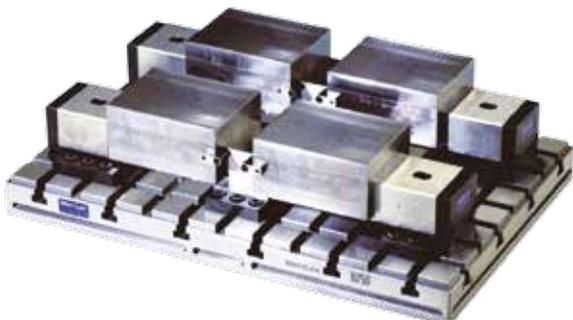
Step 8

Load the components and tighten using the central actuating screw.

powerful

manually-*operated* or *power*-*operated?*

The components you wish to hold are clamped against a fixed jaw, and this jaw gives accurate location of each component in X, Y, and Z to aid programming.

Every locator has tenon key positioning into cross-slots on the baseplate, to give you quick and easy offsets from any chosen datum point on the baseplate to the faces of all the locator jaws (and hence components) on the baseplate. So, to find where your parts are positioned relative to each other, just count the offsets from your chosen datum.

We grind our case-hardened jaws to ±10 microns relative to the tenon keys, and machine our baseplates to a similar tolerance over one metre, giving a system repeatability accuracy of ±25 microns.

The clamping jaw has a rack in the underside, which engages fully into a repositionable rack in the baseplate, for coarse setting using a component as a template. To set a row of components, simply match the number of teeth exposed in the loose rack.

MicroLoc Soft Clamping Systems

- Available in four standard sizes, with soft jaw sets to adapt existing MicroLoc systems, or available as complete systems ready for your machine.
- Machine component features directly into the clamping elements.
- The MicroLoc compensating jaw even allows pairs of smaller parts to be clamped securely per jaw.

MicroLoc
RotoLoc12

- Quick-change core
- Compact size, single ended support
- Four-sided clamping, three-face machining
- Uses standard MicroLoc clamping elements
- Available as a complete system ready with adaptor for your rotary table/indexer/full cnc table!
- Can be supplied complete with 4th axis of your choice.
- Core available separately in 50, 60 and 75-Series configurations.
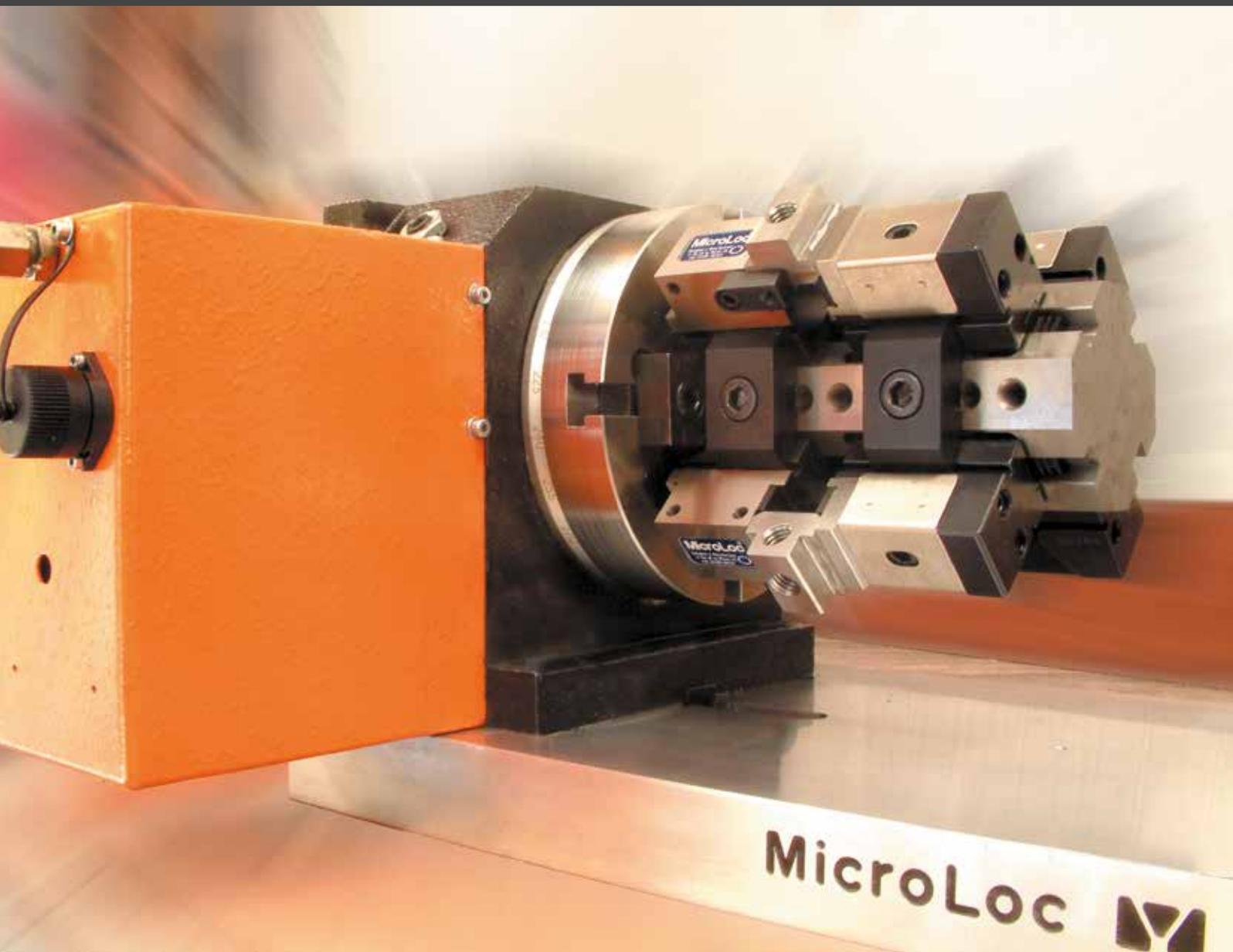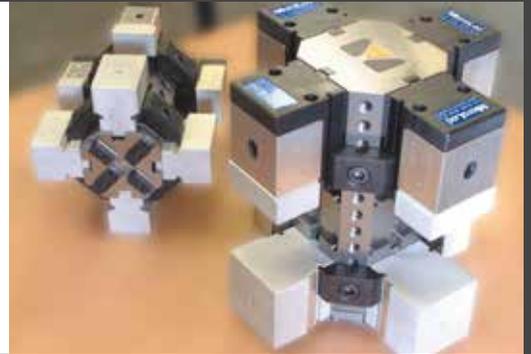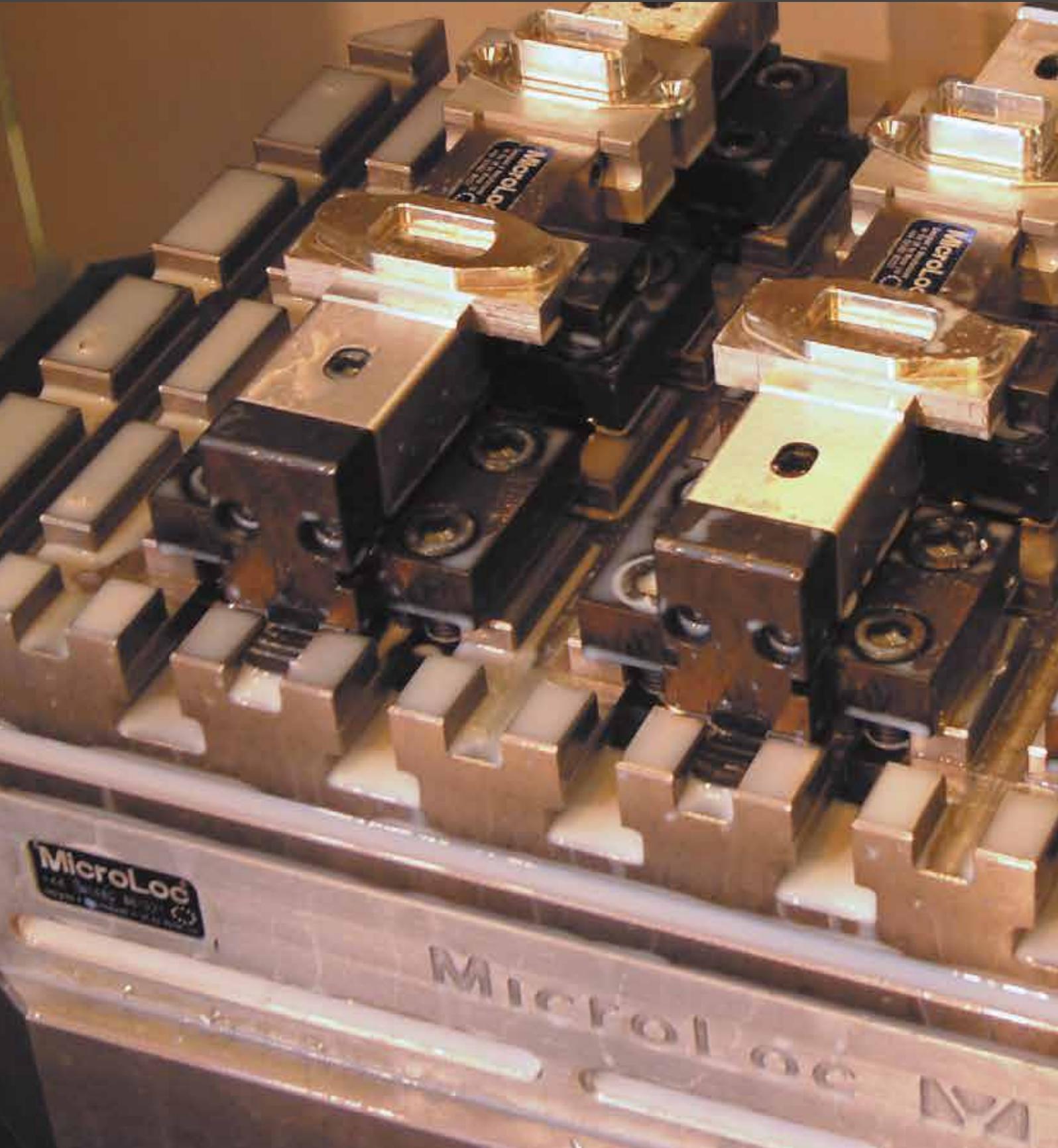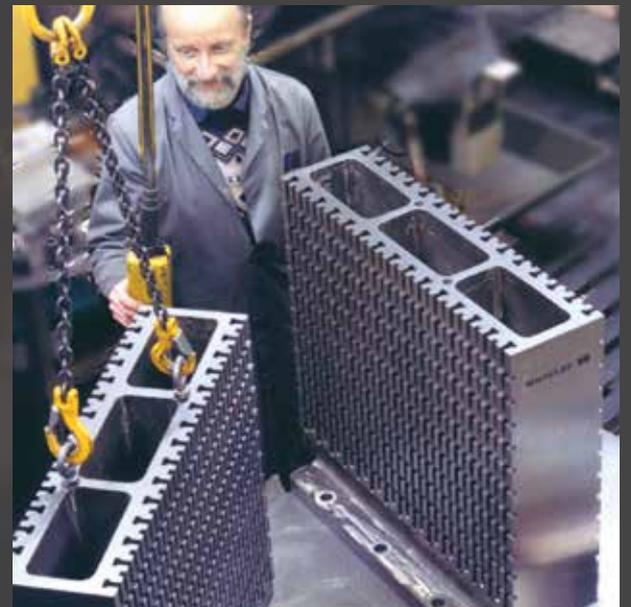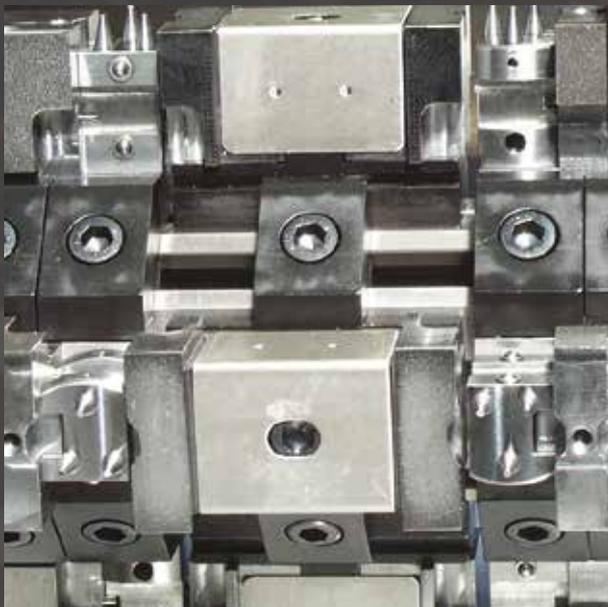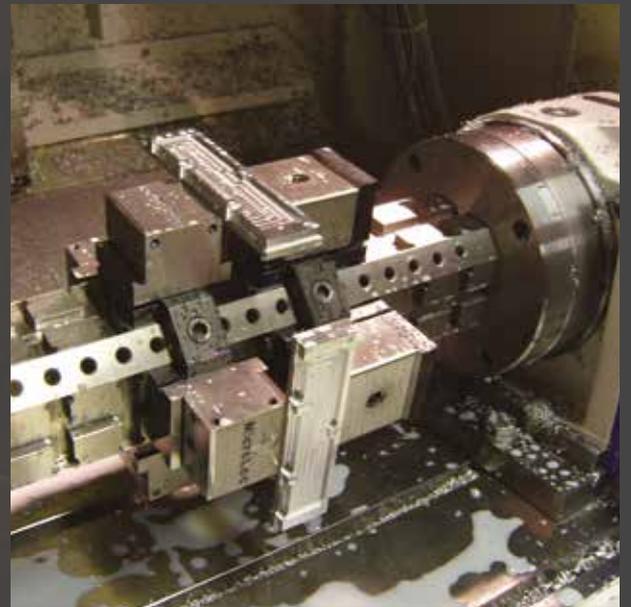
Buy as a **kit**...or **customised**
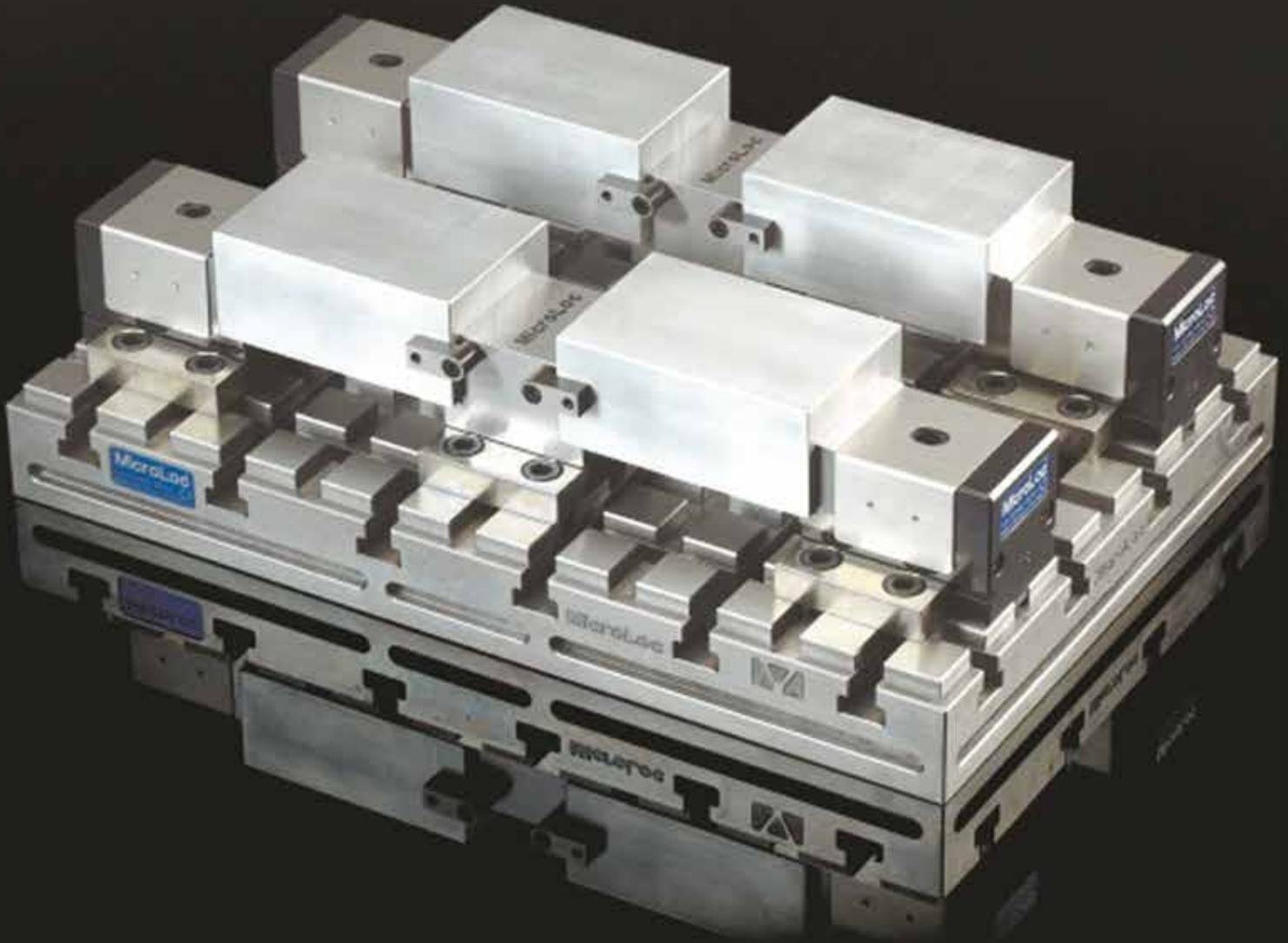
1. Decide if you require a kit, or bespoke service. (Kits are generally available ex-stock.)

2. Choose a suitable jaw width and clamping force that will best fit the range of parts you will be machining.

3. Decide on a suitable pitching of jaws (eg component width + cutter size + clearance), and determine if this is best fitted to a 50mm, 60mm, 75mm or 100mm pitching of t-slot. (Remember that intermediate or offset positions are possible for the clamping elements.)

4. Decide on the likely maximum number of parts you will need to hold.

5. Choose a size of baseplate or kit, either matched to the number of clamping stations required, or by the size of your machine envelope or pallet size.

6. Choose accessory jaws.

If you are not sure of the ideal size of MicroLoc for your needs, just call us with some details of your requirements and we can provide a CAD layout for you to consider.

Locate the MicroLoc baseplate to your machine using a pair of bore tenon adaptors. The 16mm bores in the baseplates are used for this purpose.

If you are purchasing a kit you will need to mount the baseplate either by using a minimum of six table clamps around the perimeter, or alternatively provide some counterbored holes for M12 screws. We can give you advice on what to do.

If you have opted for a customised service, we will supply your baseplate with the necessary fixing holes, bushed location holes for mounting on cubes, or even edge locations and fixings for pallets.

Clamping Units

Clamp Type	Top view	Underside	A	B	C	D	E	F	G	H	I	J	Stroke	Weight kg	Part Number
MV1 Base fit: 50 60*			64	44	24	20	4.5	31.4	31.7	22	8 M4	5.5 M3	5.0	0.7	MV1.CB
			MV1.CC comprises: 1x basic clamp (MV1.CB), 2x sideclamp (MV1.SCA.SL), 1x loose rack (MV0.06), 1x set of workblades (MV1.WS)											1.3	MV1.CC
MV3D Base fit: 50 60*			81	59.5	30	29.5	8	39.6	31.7	28	12 M4	8 M4	6.0	1.3	MV3D.CB
			MV3D.CC comprises: 1x basic clamp (MV3D.CB), 2x sideclamp (MV1.SCA.SL), 1x loose rack (MV0.06), 1x set of workblades (MD60.WS)											1.9	MV3D.CC
MD60 Base fit: 60 75*			81	59.5	30	29.5	8	39.6	31.7	28	12 M4	8 M4	6.0	1.3	MD60.CB
			MD60.CC comprises: 1x basic clamp (MD60.CB), 2x sideclamp (MD60.SA.SS), 1x loose rack (MV0.06), 1x set of workblades (MD60.WS)											1.8	MD60.CC
MD75 Base fit: 75			85	62.5	30	32.5	8	57.6	55.6	45	12 M5	10 M5	6.5	2.2	MD75.CB
			MD75.CC comprises: 1x basic clamp (MD75.CB), 2x sideclamp (MD75.SA.SS), 1x loose rack (MV0.06), 1x set of workblades (MD75.WS)											2.7	MD75.CC
MD100 Base fit: 50 100			99.5	76.5	32	44.5	10.5	79.6	80	51	15 M8	10 M5	11.0	4.6	MD100.CB
			MD100.CC comprises: 1x basic clamp (MD100.CB), 2x sideclamp (MD100.SA.SL), 1x loose rack (MV0.06), 1x set of workblades (MD100.WS)											5.4	MD100.CC

notes:
*Requires extended sideclamps. Add suffix 'X' to part number when ordering, e.g. MV1.CC becomes MV1.CCX to fit 60-series baseplates.
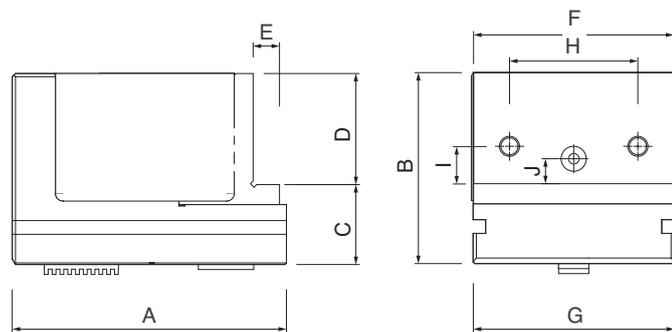
Locators: Standard

Clamp Type	Top view	Underside	A	B	C	D	E/E1	F	G	H	I	J	K	Weight kg	Part Number
MV1 Base fit: 50 60*			42	44	24	20	31.4 17	6	31.7	22	8 M4	5.5 M3	12	0.6	MV1.40.42A
			MV1.LC.40.42 comprises: 1x basic locator (MV1.40.42A), 2x sideclamp (MV1.SCA.SS), 2x workblade set (MV1.WS), 2x End stop and spacer set (MV1.SS)											1.2	MV1.LC.40.42
MV3D Base fit: 50 60*			60	59.5	30	29.5	39.6 21	8	31.7	28	12 M4	8 M4	12	1.4	MV3D.40.60A
			MV3DLC.40.60 comprises: 1x basic locator (MV3D.40.60A), 2x sideclamp (MV1.SCA.SL), 2x workblade set (MD60.WS), 2x End stop and spacer set (MD60.SS)											2.0	MV3D.LC.40.60
MD60 Base fit: 60 75*			44	56.5	27	29.5	39.6 21	8	40	28	12 M4	8 M4	12	0.9	MD60.210A
			MD60.LC.210 comprises: 1x basic locator (MD60.210A), 2x sideclamp (MD60.SA.SS), 2x workblade set (MD60.WS), 2x End stop and spacer set (MD60.SS)											1.4	MD60.LC.210
MD75 Base fit: 75			50	62.5	30	32.5	57.6 30	8	55.6	45	12 M5	10 M5	12	1.7	MD75.201A
			MD75.LC.201 comprises: 1x basic locator (MD75.201A), 2x sideclamp (MD75.SA.SS), 2x workblade set (MD75.WS), 2x End stop and spacer set (MD75.SS)											2.3	MD75.LC.201
MD100 Base fit: 50 100			50	76.5	32	44.5	79.6 41	11.5	80	51	15 M8	10 M5	12	3.0	MD100.200A
			MD100.LC.200 comprises: 1x basic locator (MD100.200A), 2x sideclamp (MD100.SA.SS), 2x workblade set (MD100.WS) 2x End stop and spacer set (MD100.SS)											5.4	MD100.LC.200

notes:
Basic locator includes tenons.

*Requires extended sideclamps. Add suffix 'X' to part number when ordering, e.g. MV1.CC becomes MV1.CCX to fit 60-series baseplates.

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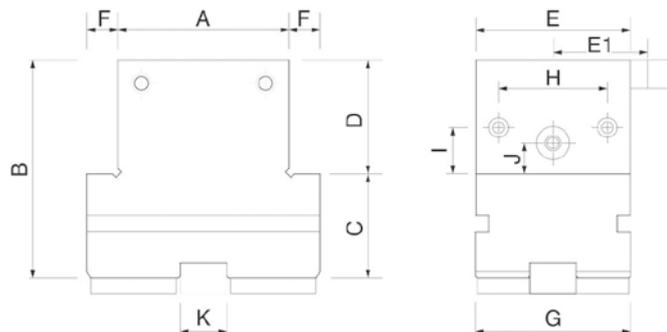
Locators: Offset/Edge

Clamp Type	Top view	Underside	A/L	B	C	D	E/E1	F	G	H	I	J	K	Weight kg	Part Number
MV1 Base fit: 50 60*			25 50.5	0	24	20	31.4 17	6	31.7	22	8 M4	5.5 M3	5	0.4	MV1.40.25A
			MV1.LC.40.25 comprises: 1x basic locator (MV1.40.25A), 2x sideclamp (MV1.SCA.SS), 2x workblade set (MV1.WS), 2x End stop and spacer set (MV1.SS)											1.0	MV1.LC.40.25
MV3D Base fit: 50 60*			30 63	10	30	29.5	39.6 21	8	31.7	28	12 M4	8 M4	7	0.8	MV3D.40.30A
			MV3D.60.40.30 comprises: 1x basic locator (MV3D.40.30A), 2x sideclamp (MV1.SCA.SL), 2x workblade set (MD60.WS), 2x End stop and spacer set (MD60.SS)											1.4	MV3D.LC.40.60
MD60 Base fit: 60 75*			30 68	15	27	29.5	39.6 21	8	40	28	12 M4	8 M4	12	1.0	MD60.211A
			MD60.LC.221 comprises: 1x basic locator (MD60.221A), 2x sideclamp (MD60.SA.SS), 2x workblade set (MD60.WS), 2x End stop and spacer set (MD60.SS)											1.5	MD60.LC.210
MD75 Base fit: 75			38 78.5	18.5	30	32.5	57.6 30	8	55.6	45	12 M5	10 M5	6	1.5	MD75.211A
			MD75.LC.211 comprises: 1x basic locator (MD75.211A), 2x sideclamp (MD75.SA.SS), 2x workblade set (MD75.WS), 2x End stop and spacer set (MD75.SS)											2.1	MD75.LC.201
MD100 Base fit: 50 100			50 86	0	32	44.5	79.6 41	11.5	80	51	15 M8	10 M5	6	3.4	MD100.210A
			MD100.LC.210 comprises: 1x basic locator (MD100.210A), 2x sideclamp (MD100.SA.SS), 2x workblade set (MD100.WS) 2x End stop and spacer set (MD100.SS)											4.2	MD100.LC.210

notes:
Basic locator includes tenons.

*Requires extended sideclamps. Add suffix 'X' to part number when ordering, e.g. MV1.CC becomes MV1.CCX to fit 60-series baseplates.

# Plain Hard Facings, Rebated

Clamp/ Locator Type	Top view	Underside	A	B	C	D	E	F	G	H	I	J	Qty Jaws incl	Qty Screw incl	Weight kg	Part Number
MV1			-	-	-	-	-	-	-	-	-	-	-	-	-	-
MV1			8	33	20	22	M4 cap	8	n/a	n/a	33	8	1	2	0.05	MV1.52.34
MV3D			6	49	29.5	28	M4 csk	12	M4	8	39.6	8.5	1	2	0.07	MV3D.52.49A
MV3D			9	49	29.5	28	M4 cap	12	n/a	n/a	39.6	11.5	1	2	0.10	MV3D.53.49A
MD60			6	49	29.5	28	M4 csk	12	M4	8	39.6	8.5	1	2	0.07	MD60.420A
MD60			9	49	29.5	28	M4 cap	12	n/a	n/a	39.6	11.5	1	2	0.10	MD60.430A
MD75			6	67	32.5	45	M5 csk	12	M5	10	57.6	8.5	1	2	0.12	MD75.420A
MD75			9	67	32.5	45	M5 cap	12	n/a	n/a	57.6	11.5	1	2	0.15	MD75.430A
MD100			7.5	90	44.5	51	M8 csk	15	M5	10	79.6	10	1	2	0.24	MD100.420A
MD100			12	90	44.5	51	M8 cap	15	n/a	n/a	79.6	14.5	1	2	0.37	MD100.430A

notes:
All elements are supplied individually.
Non-rebated facings for light-duty applications are available on request.

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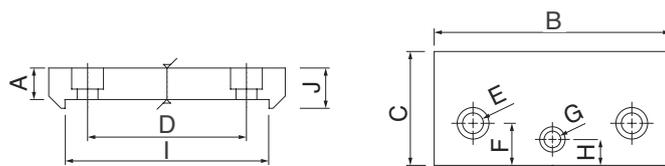
Serrated Hard Jaws, Rebated

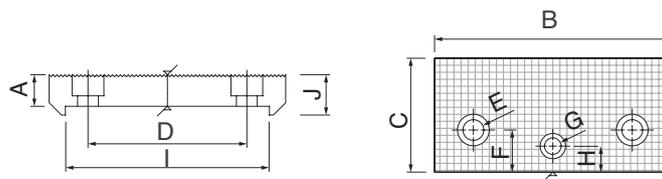| Clamp/ Locator Type	Top view	Underside	A	B	C	D	E	F	G	H	I	J	Qty Jaws incl	Qty Screw incl	Weight kg	Part Number
MV1			4	40	200	22	M4 Csk	8	M3	5.5	31.5	6.5	1	2	0.05	MV1.54.40
MV1			8	39	20	22	M4 Cap	8	n/a	n/a	31.4	10.5	1	2	0.05	MV1.53.40A
MV3D			6	49	29.5	28	M4 csk	12	M4	8	39.6	8.5	1	2	0.07	MV3D.30.49A
MV3D			9	49	29.5	28	M4 cap	12	n/a	n/a	39.6	11.5	1	2	0.10	MV3D.31.49A
MD60			6	49	29.5	28	M4 csk	12	M4	8	39.6	8.5	1	2	0.07	MD60.400A
MD60			9	49	29.5	28	M4 cap	12	n/a	n/a	39.6	11.5	1	2	0.10	MD60.410A
MD75			6	67	32.5	45	M5 csk	12	M5	10	57.6	8.5	1	2	0.12	MD75.400A
MD75			9	67	32.5	45	M5 cap	12	n/a	n/a	57.6	11.5	1	2	0.15	MD75.410A
MD100			7.5	90	44.5	51	M8 csk	15	M5	10	79.6	10	1	2	0.24	MD100.400A
MD100			12	90	44.5	51	M8 cap	15	n/a	n/a	79.6	14.5	1	2	0.37	MD100.410A

notes:
All elements are supplied individually.
Non-rebated facings for light-duty
applications are available on request.

Soft Jaws, Rebated

Clamp/ Locator Type	Top view	Underside	A	B	C	D	E	F	G	H	Material	Qty Jaws incl	Qty Screw incl	Weight kg	Part Number
MV1			12.7	39	22	31.4	M4	22	8	15	Steel EN32B	1	2	0.10	MV1.50. 40A
MV1			16.5	49	22	31.4	M4	22	8	9	Aluminium HE30	1	2	0.05	MV1.50. 49A
MV3D			22.5	49	32	39.6	M4	28	12	25	Steel EN32B	1	2	0.20	MV3D.50. 49A
MV3D			19.5	59	32	39.6	M4	28	12	22	Aluminium HE30	1	2	0.12	MV3D.50. 59A
MD60			22.5	49	32	39.6	M4	28	12	25	Steel EN32B	1	2	0.20	MD60. 460A
MD60			19.5	59	32	39.6	M4	28	12	22	Aluminium HE30	1	2	0.12	MD60. 470A
MD75			22.5	67	35	57.6	M5	45	12	25	Steel EN32B	1	2	0.45	MD75. 460A
MD75			22.5	74	35	57.6	M5	45	12	25	Aluminium HE30	1	2	0.16	MD75. 470A
MD100			37.5	90	44.5	79.6	M8	51	15	40	Steel EN32B	1	2	1.10	MD100. 460A
MD100			35.5	98	44.5	79.6	M8	51	15	40	Aluminium HE30	1	2	0.43	MD100. 470A

notes:
All elements are supplied individually.

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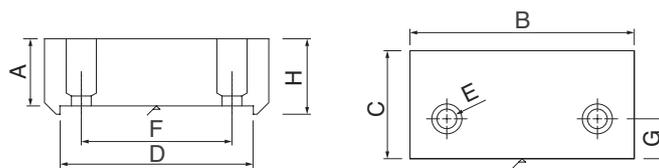
Vee Jaws, Rebated

Clamp/ Locator Type	Top view	Underside	A	B	C	D	E	F	G	H	I	J	Qty Jaws incl	Qty Screw incl	Weight kg	Part Number
MV1 Horizontal			12.7	39	22	31.4	M4	22	8	20	29	11	1	2	0.08	MV1.51.HA
MV1 Vertical			12.7	39	22	31.4	M4	22	8	20	29	n/a	1	2	0.08	MV1.51.VA
MV3D Horizontal			15.5	49	31.5	39.6	M4	28	12	20	29	16	1	2	0.16	MV3D.51.HA
MV3D Vertical			15.5	49	31.5	39.6	M4	28	12	20	29	n/a	1	2	0.17	MV3D.51.VA
MD60 Horizontal			15.5	49	31.5	39.6	M4	28	12	20	29	16	1	2	0.16	MD60.440A
MD60 Vertical			15.5	49	31.5	39.6	M4	28	12	20	29	n/a	1	2	0.17	MD60.450A
MD75 Horizontal			22.5	67	35	57.6	M5	45	12	20	35	17.5	1	2	0.34	MD75.440A
MD75 Vertical			22.5	67	35	57.6	M5	45	12	20	35	n/a	1	2	0.37	MD75.450A
MD100 Horizontal			27	90	44.5	79.6	M8	51	15	35	53.5	22.25	1	2	0.69	MD100.440A
MD100 Vertical			27	90	44.5	79.6	M8	51	15	35	53.5	n/a	1	2	0.749	MD100.450A

notes:
All elements are supplied individually.
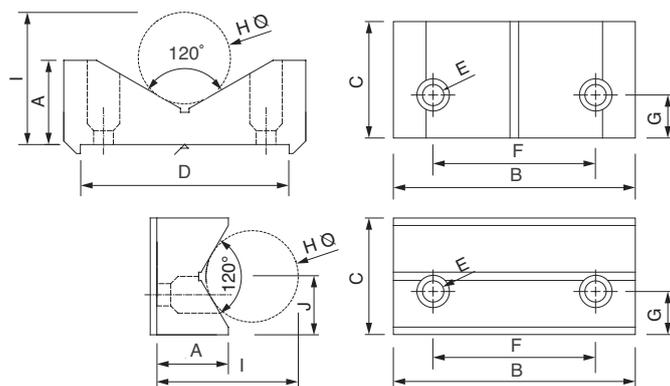
Ultra Grip Jaws
For extra security on extreme clamping situations

Clamp/ Locator Type		A	B	C	D	E	F	G	H	I	Qty jaws incl	Qty screw incl	Weight kg	Part Number
MD75		12	67	32.5	45	M5	12	57.6	14.5	3	1	2	0.2	MD75.412
MD100		12	90	44.5	51	M8	15	79.6	14.5	3	1	3	0.25	MD100.412

notes:
All elements are supplied individually.

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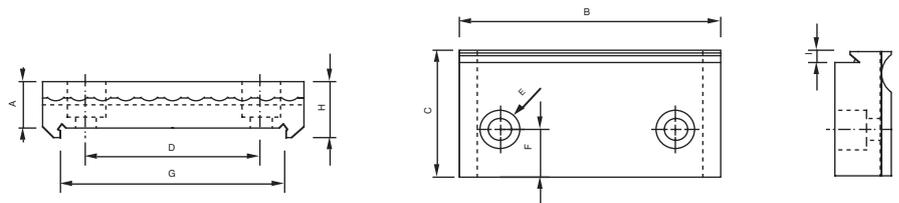
Sideclamps, Standard

Clamp/ Locator Type		A	B	C	D	E	F	G	H	I	Torque ft.lb (Nm)	Qty clamp incl	Qty screw incl	Weight kg	Part Number
MV1		52	15.8	25.4	30	n/a	15	19	52	M10	37 (50)	1	2	0.21	MV1.SCA. SM
MV1*		59.5	15.8	31.7	30	n/a	15	19	59.5	M10	37 (50)	1	2	0.3	MV1.SVA. SLX
MV3D		72	15.8	25.4	50	n/a	15	19	71	M10	37 (50)	1	2	0.3	MV3D. SCA.SL
MV3D		-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD60		59.5	15.8	25.4	30	n/a	15	19	59.5	M10	37 (50)	1	2	0.25	MD60. SA.SS
MD60*		59.5	15.8	35.0	30	n/a	15	19	59.5	M10	37 (50)	1	2	0.33	MD60. SA.SX
MD75		66	15.8	25.4	37.5	n/a	15	19	65	M10	50 (68)	1	2	0.3	MD75. SA.SS
MD75	sideclamp not available as extended version	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD100		73	17.1	28.6	50	25	15	19	71	M10	50 (68)	1	3	0.38	MD100. SA.SS for use with MD100.200A and MD100.210A
MD100		86	17.1	28.6	50	25	15	19	71	M10	50 (68)	1	2	0.42	MD100. SA.SL for use with MD100.CB

notes:
*Only for use when fitting clamping elements to optional baseplate pitch i.e. when mounting MV1 onto 60mm pitched bases, or when mounting MD60 onto 75mm pitched bases. All elements are supplied individually.
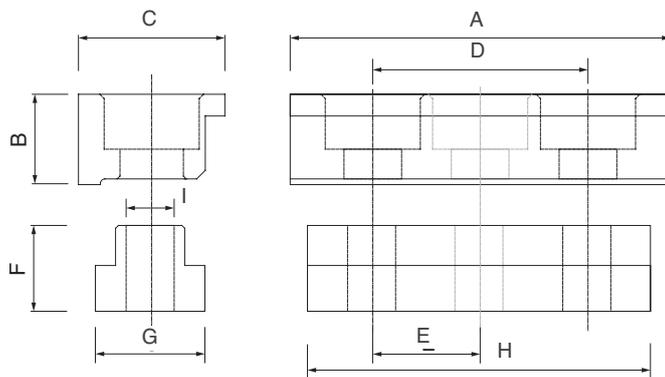
Sideclamps, Double-sided

Clamp/ Locator Type		A	B	C	D	E	F	G	H	I	Torque ft.lb (Nm)	Qty clamp incl	Qty screw incl	Weight kg	Part Number
MV1		52	15.8	25.4	30	n/a	15	19	52	M10	37 (50)	1	2	0.21	MV1.SCA. DM
MV1*		59.5	15.8	31.7	30	n/a	15	19	59.5	M10	37 (50)	1	2	0.3	MV1.SVA. DLX
MV3D		72	15.8	25.4	50	n/a	15	19	71	M10	37 (50)	1	2	0.3	MV3D. SCA.DL
MV3D		-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD60		59.5	15.8	25.4	30	n/a	15	19	59.5	M10	37 (50)	1	2	0.25	MD60. SA.D
MD60*		59.5	15.8	35.0	30	n/a	15	19	59.5	M10	37 (50)	1	2	0.33	MD60. SA.DX
MD75		66	15.8	25.4	37.5	n/a	15	19	65	M10	50 (68)	1	2	0.3	MD75. SA.DS
MD75	sideclamp not available as extended version	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD100		73	17.1	28.6	50	25	15	19	71	M10	50 (68)	1	3	0.38	MD100. SA.DS for use with MD100.200A and MD100.210A
MD100		86	17.1	28.6	50	25	15	19	71	M10	50 (68)	1	2	0.42	MD100. SA.DL for use with MD100.CB

notes:
*Only for use when fitting clamping elements to optional baseplate pitch i.e. when mounting MV1 onto 60mm pitched bases, or when mounting MD60 onto 75mm pitched bases. All elements are supplied individually.
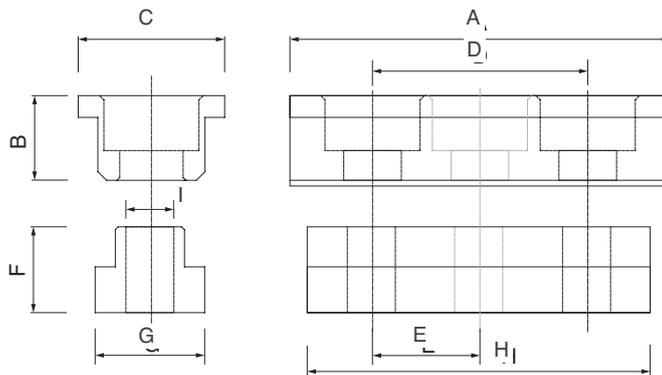
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Workblades

| Clamp/ Locator Type		A	B	C	D	E		Qty blades incl	Part Number
MV1		31.5	12 15 18	3.17	5.75	M3		1 1 1	MV1.20.12 MV1.20.18 MV1.20.18
MV1		-	-	-	-	-	A set comprises one of each of the three standard heights, 12mm, 15mm, & 18mm.	3	MV1.WS
MV3D		39.5	17 22 27	4.00	8.25	M4		1 1 1	MD60.300 MD60.310 MD60.320
MV3D		-	-	-	-	-	A set comprises one of each of the three standard heights, 17mm, 22mm, & 27mm.	3	MD60.WS
MD60		39.5	17 22 27	4.00	8.25	M4		1 1 1	MD60.300 MD60.310 MD60.320
MD60		-	-	-	-	-	A set comprises one of each of the three standard heights, 17mm, 22mm, & 27mm.	3	MD60.WS
MD75		57.5	22 27 30	4.00	10.2	M5		1 1 1	MD75.300 MD75.310 MD75.320
MD75		-	-	-	-	-	A set comprises one of each of the three standard heights, 22mm, 27mm, & 30mm.	3	MD75.WS
MD100		79.5	22 30 40	4.00	10.2	M5		1 1 1	MD100.300 MD100.310 MD100.320
MD100		-	-	-	-	-	A set comprises one of each of the three standard heights, 27mm, 30mm, & 40mm.	3	MD100.WS

notes:
All sizes of workblade are available individually, or in sets.
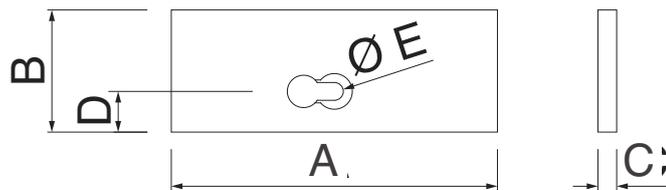
End Stops

Clamp/ Locator Type		A	B	C	D	E	F	G	Qty Stops incl	Qty Screw incl	Weight kg	Part Number
MV1		22	17	11.5	1.3	10.3	M5	M5 tap	1	0	-	MV0.40.20
MV1		36	30	11.5	1.3	10.3	M5	M5 tap	1	0	-	MV0.40.40
MV3D		22	17	11.5	1.2	10.2	M5	M5 tap	1	0	-	MD60.520
MV3D		36	30	11.5	1.2	10.2	M5	M5 tap	1	0	-	MD60.525
MD60		22	17	11.5	1.2	10.2	M5	M5 tap	1	0	-	MD60.520
MD60		36	30	11.5	1.2	10.2	M5	M5 tap	1	0	-	MD60.525
MD75		22	17	11.5	1.2	10.2	M5	M5 tap	1	0	-	MD60.520
MD75		36	30	11.5	1.2	10.2	M5	M5 tap	1	0	-	MD60.525
MD100		22	17	11.5	1.2	10.2	M5	M5 tap	1	0	-	MD60.520
MD100		36	30	11.5	1.2	10.2	M5	M5 tap	1	0	-	MD60.525

notes:
All elements are supplied individually.

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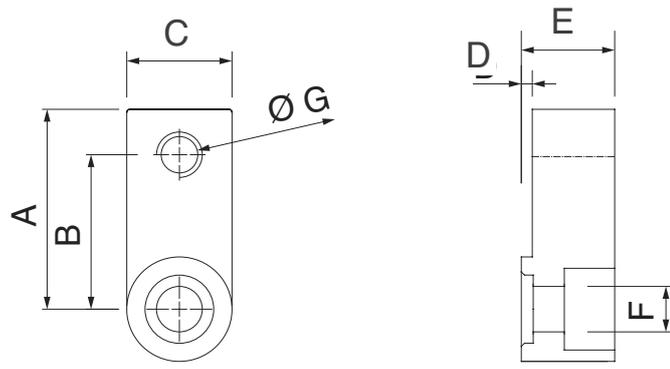
Table Work Supports

Clamp/ Locator Type		A	B	C	D	E	F	G	H	I	J	Qty Supp incl	Qty t-nut incl	Qty Screw incl	Weight kg	Part Number
MV1		24	10	5	45	18	20	3	14	11	M10	1	1	1	0.15	MV1.60A
		36	10	5	45	18	20	3	14	11	M10	1	1	1	0.17	MV1.61A
		39	10	5	45	18	20	3	14	11	M10	1	1	1	0.18	MV1.62A
		42	10	20	45	18	20	3	14	11	M10	1	1	1	0.18	MV1.63A
MV1	adjustable version not available	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MV3D		30	10	5	45	18	20	3	14	11	M10	1	1	1	0.15	MV3D.60A
		47	10	20	45	18	20	3	14	11	M10	1	1	1	0.17	MV3D.61A
		52	10	20	45	18	20	3	14	11	M10	1	1	1	0.18	MV3D.62A
		57	10	20	45	18	20	3	14	11	M10	1	1	1	0.18	MV3D.63A
MV3D		47 to 57	10	20	45	18	20	3	14	11	M10	1	1	1	0.17	MV3D.64A
MD60		27	10	5	45	18	20	3	14	11	M10	1	1	1	0.15	MD60.360A
		44	10	20	45	18	20	3	14	11	M10	1	1	1	0.16	MD60.370A
		49	10	20	45	18	20	3	14	11	M10	1	1	1	0.17	MD60.380A
		54	10	20	45	18	20	3	14	11	M10	1	1	1	0.18	MD60.390A
MD60		44 to 54	10	20	45	18	20	3	14	11	M10	1	1	1	0.17	MD60.365A
MD75		30	10	5	45	18	20	3	14	11	M10	1	1	1	0.15	MD75.360A
		52	10	20	45	18	20	3	14	11	M10	1	1	1	0.17	MD75.370A
		57	10	20	45	18	20	3	14	11	M10	1	1	1	0.18	MD75.380A
		60	10	20	45	18	20	3	14	11	M10	1	1	1	0.18	MD75.390A
MD75		52 to 60	10	20	45	18	20	3	14	11	M10	1	1	1	0.17	MD75.365A
MD100		32	10	5	45	18	20	3	14	11	M10	1	1	1	0.15	MD100.360A
		54	10	20	45	18	20	3	14	11	M10	1	1	1	0.17	MD100.370A
		62	10	20	45	18	20	3	14	11	M10	1	1	1	0.18	MD100.380A
		72	10	20	45	18	20	3	14	11	M10	1	1	1	0.19	MD100.390A
MD100		54 to 72	10	20	45	18	20	3	14	11	M10	1	1	1	0.17	MD100.365A

notes:
All elements are supplied individually.
Items supplied may differ slightly from items shown.
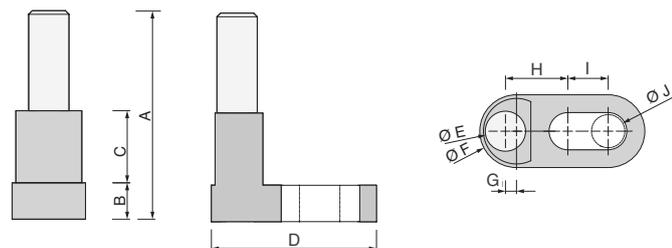
Reference Baseplates

T-slot pitch		X min/ max	Y min/ max	Z (X<1000)	Z (X>1000)	A	B	C	T-slot X or Y	T-slot X & Y	Weight kg	Part Number
	We have four types of baseplates to choose from, t-slots at 50, 60, 75, or 100mm pitch. You choose the size of baseplate and the orientation of t-slots to suit your machine.	X = length Y = width										
										Y = yes, N = No, O = Optional		
50 Series for use with: MV1 MV3D MD100		300 1450	200 650	55	65	50	25	12	Y	N	-	to order
		300	200	55	-	50	25	12	Y	N	19	MVB.3020
60 Series for use with: MD60 MV1*		300 1440	180 660	55	65	60	30	12	Y	N	-	to order
		360	240	55	-	60	30	12	Y	N	29	MDB.3624
75 Series for use with: MD75 MV60*		300 1425	225 675	55	65	75	37.5	12	Y	O	-	to order
		450	300	55	-	75	37.5	12	Y	Y	43	MDB75.4530T
100 Series for use with: MD100		400 1400	300 600	55	65	100	50	12	Y	O	-	to order
		600	400	55	-	100	50	12	Y	Y	80	MDB100.6040T
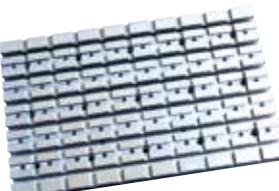
notes:
*Requires extended sideclamps. Add suffix 'X' to part number when ordering, e.g. MV1.CC becomes MV1.CCX to fit 60-series baseplates.

The baseplates illustrated are typical examples and do not necessarily represent the particular sizes quoted.
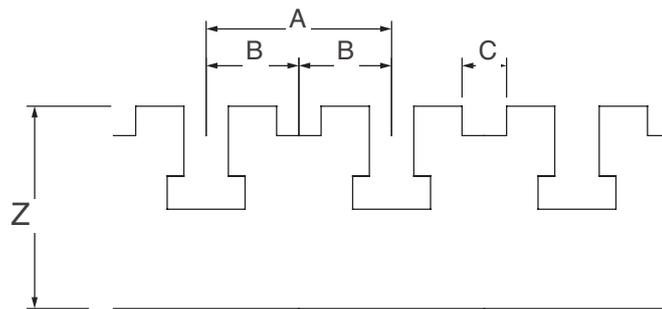
Soft Jaw Sets: Locators & Sliding Jaws

Clamp/ Locator Type		A	B	C	D	E	F	G	H	Weight kg S/A*	Part Number
MV1		40	16	24.75	-	-	-	-	-	0.2/0.06	MV1.660* Soft Sliding Jaw
MV1		-	-	-	44.75	12	40	26.65	60	-	MV1.650* Soft Locator
MV3D		-	-	-	-	-	-	-	-	-	-
MV3D		-	-	-	-	-	-	-	-	-	-
MD60		50	22	39	-	-	-	-	-	0.5/0.2	MD60.660* Soft Sliding Jaw
MD60		-	-	-	59	12	50	39.9	60	1.3/0.5	MD60.650* Soft Locator
MD75		63.5	22	39.75	-	-	-	-	-	0.6/0.2	MD75.660* Soft Sliding Jaw
MD75		-	-	-	62.75	12	63.5	43.75	63.5	2/0.7	MD75.650* Soft Locator
MD100		88.9	32.15	54.5	-	-	-	-	-	1.8/0.6	MD100.660* Soft Sliding Jaw
MD100		-	-	-	77.5	12	88.9	56.4	88.9	4/1.6	MD100.650* Soft Locator

notes:
* Add A for Aluminium or S for Steel
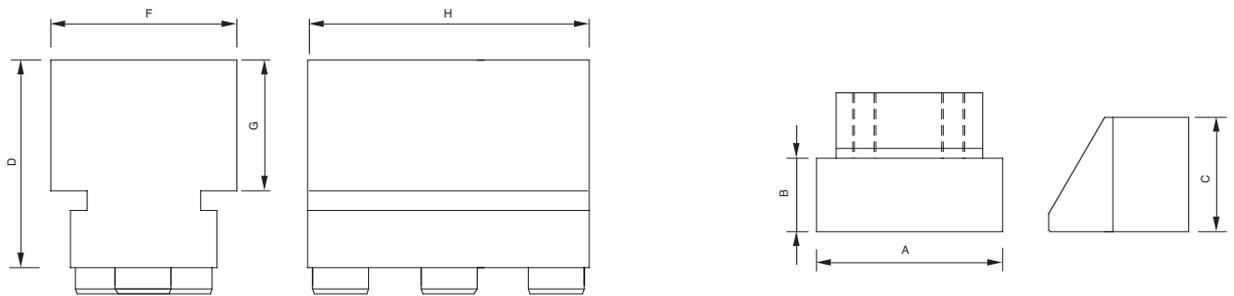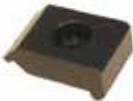
RotoLoc12: Core Units & Face Plates

T-slot pitch		A	B	C	D	E	Weight kg	Part Number
50 Series for use with: MV1 MV3D*		72	180	50	30	180	9	to order RL50.ST
60 Series for use with: MD60 only		80	200	50	30	180	11	to order RL60.ST
75 Series for use with: MD75 only		96	200	50	30	180	15	to order RL75.ST
100 Series	not available	-	-	-	-	-	-	-

notes:
Face Plates are customised to suit your indexer/full CNC rotary table. All items are available separately.

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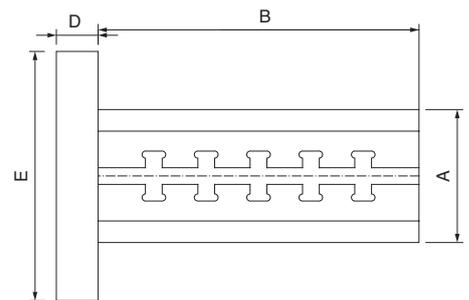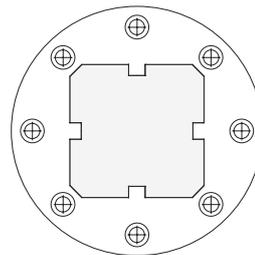
Common Accessories

Description		Height	Diameter	Length	Qty Items incl	Qty Screw incl	Weight kg	Part Number
Fixed rack		-	-	-	1	0	-	MV0.01
Loose rack		-	-	-	1	0	-	MV0.06
Spacer		5	11	-	1	0	-	MV0.41.05
Spacer		10	11	-	1	0	-	MV0.41.10
Spacer		15	11	-	1	0	-	MV0.41.15
Reducer		10	9a/f	-	1	0	-	MV0.42.05
RotoLoc 12 Side Clamp (Single-Sided)		-	-	-	1	1	-	RL.SA.SS
RotoLoc 12 Side Clamp (Double-Sided)		-	-	-	1	1	-	RL.SA.DS
Short T-Nut (to go with the above)		-	-	34	1	1	-	MV0.20.34
Bore Tenon Adaptor (see below right)		-	-	-	-	-	-	MV0.15.X

notes:
The items listed above are common to all our clamping ranges. All elements can be supplied individually, or, in the case of spacers, in sets with relevant end stops.

16mm

X =
12mm
14mm
16mm
18mm
20mm
5/8"
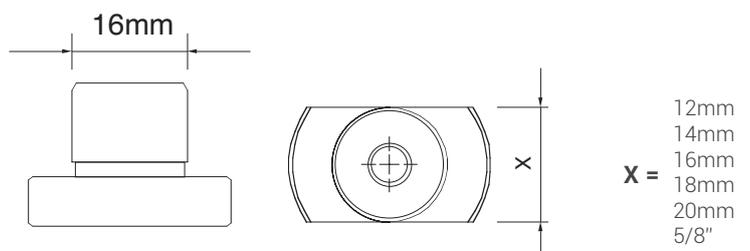
This is secured with MV0.16 Washer & Screw)
X dimension = T-Slot Width of your machine table

MicroLoc®