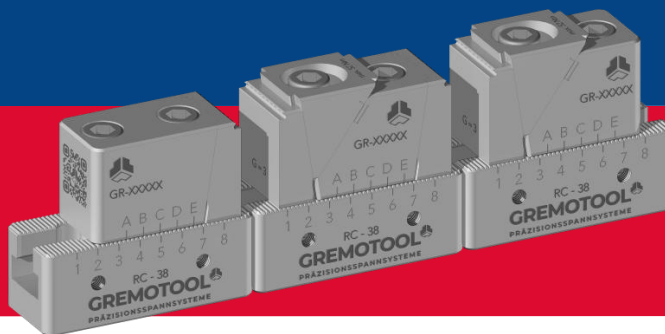


RC-catalog



swiss 
made



Overview

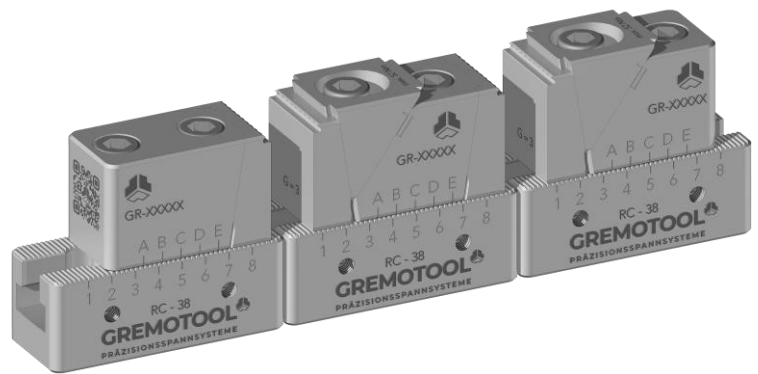
RC-series

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Product presentation

RC-series

The RailClamp series is a modular system that is ideally suited to modern production. Due to the simple design of the individual modules, they can be used quickly and flexibly for different clamping situations. This means that even complex workpiece geometries or multiple clamping no longer pose a problem. The interchangeable jaw inserts can be replaced in no time at all and offer a pull-down effect when clamping. The position of the modules can be clearly determined so that they can be clamped correctly from the outset during retooling or set-up, can be clamped correctly right from the start.



Product presentation

Benefits of the RC-series

Clamping Force

The high clamping forces of the RC-series can be influenced via the torque on the clamping screw. This allows you to clamp plastic workpieces without deformation and forged parts without destroying the clamp with a secure hold.

Compact

The compact clamping module fits on any plate or tower to enable high clamping forces. Its low weight and modular design make manual retooling easy. Thanks to the short modules, multiple clamping operations can be realised in a space saving manner.

Modular

The system is designed in such a way that there are 2 different lengths of rail. These can be fitted with 4 different modules. All modules can be used with the same jaw inserts. This design allows the clamping device to be customised to each workpiece. Multiple clamping can also be set up in a few simple steps.

Pull-down effect

The jaw inserts have a slight bevelled back. This ensures that the jaw inserts move downwards to the stop when they hit the workpiece. The workpiece is pulled downwards and always lies flat.

Accessibility

The narrow design means that even smaller workpieces can be accessed from the side. Thanks to the height of the RC series, the motorised spindle with the machining tool can machine the workpiece from both sides without the risk of collision with the table or tower. The interchangeable jaws enable various clamping depths on the workpiece.

Flexibility

Thanks to the interchangeability of the 4 basic modules of the RC-series, any clamping can be flexibly created. The RC-series and its modules can be mounted on any grid hole plate or T-slot table in just a few simple steps. The jaws can be replaced without screws.

Short set-up times

Thanks to the modular design of the RC-series, the individual modules for workpiece clamping can be set up on the T-slot table, grid hole plate or tower in no time at all. The lateral labelling makes it possible to document the workpiece clamping and set it up again at a later point in time.

Low maintenance

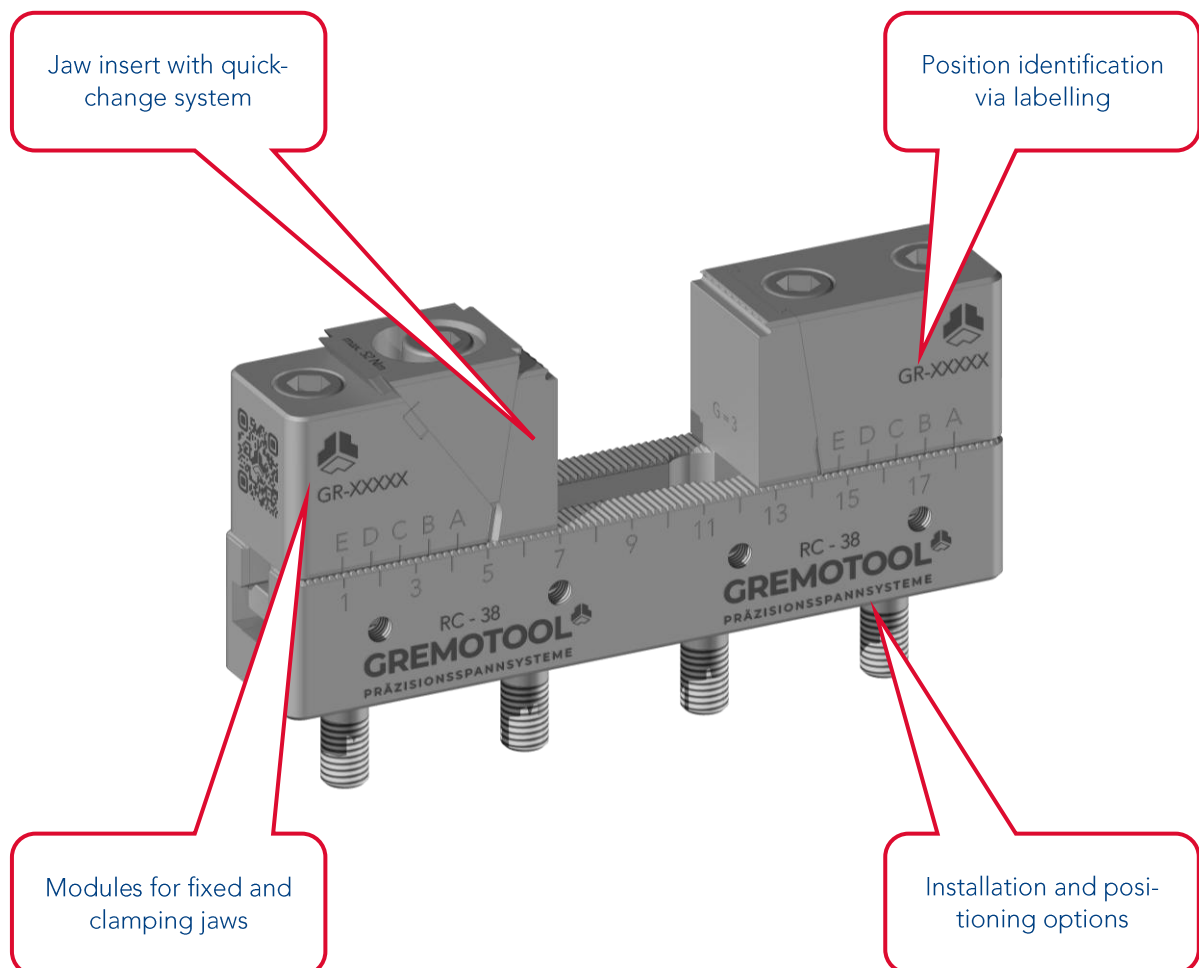
The shape of the individual components ensures that no chips remain in the system. This means that the components are exposed to less wear and sources of damage. Less foreign substances in the system minimises maintenance work.

Shipped ready for use

RC-gripper jaws are supplied with every fixed and clamping module. This means that the module can be used straight out of the box without the need for additional material or jaws for the clamping device.

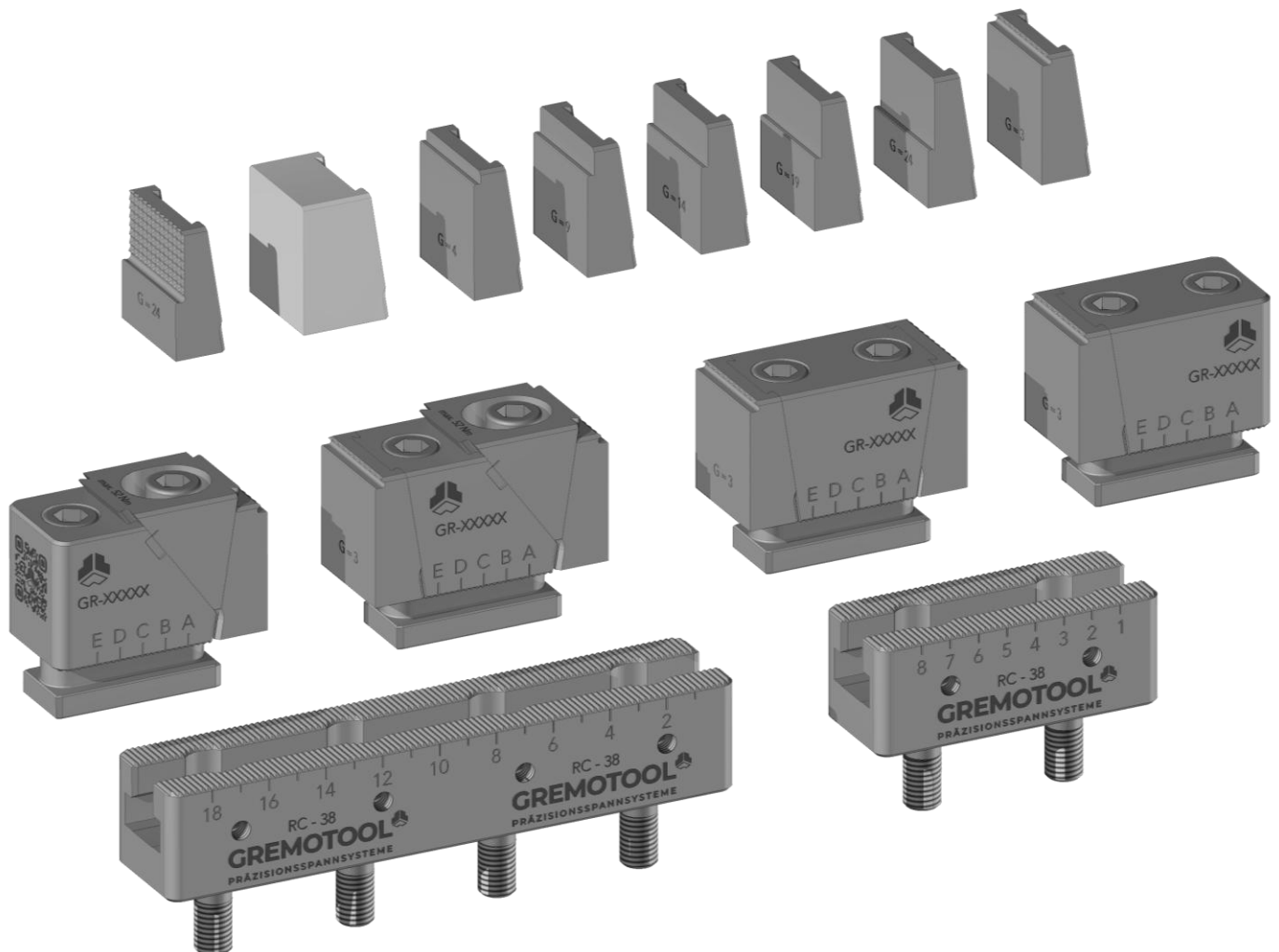
Product presentation

Benefits of the RC-series



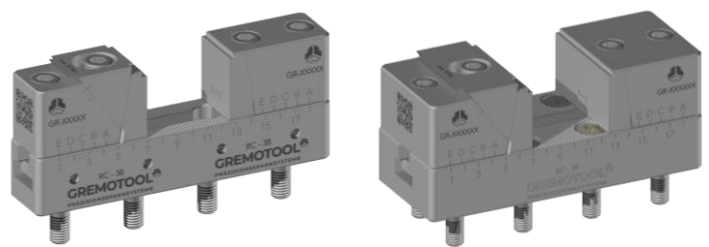
Module overview

RC-series



Sizing guide

RC-series



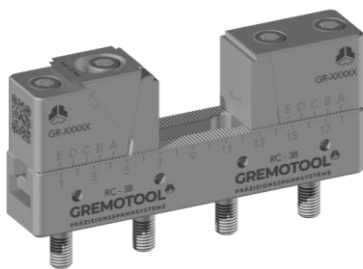
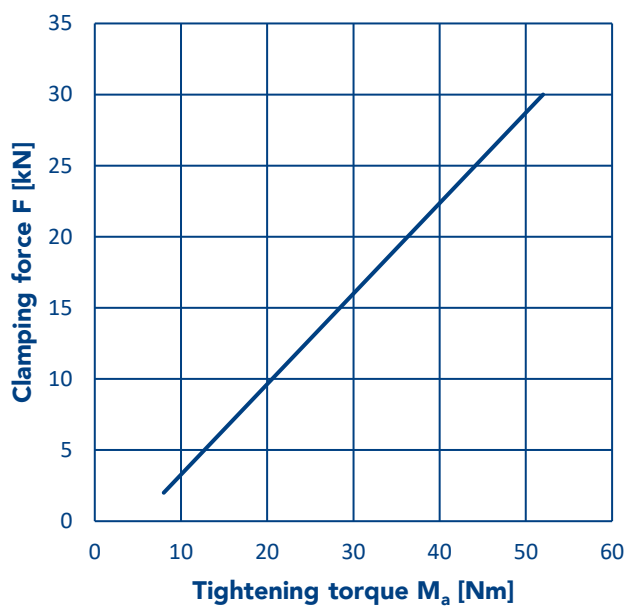
RC-Size		RC-38	RC-78
Jaw width	[mm]	38	78
Support height *	[mm]	79	79
Max. Torque range	[Nm]	52	52
Max. Clamping force	[kN]	30	30
Total length	[mm]	100	100
Total width	[mm]	40	80
Total hight	[mm]	87	87
Spanner width	[mm]	10	10
Mass **	[kg]	2.6	9.5

* With standard RC-gripper jaws

** With base rail L=100, combined fixed and clamping modules and pair of jaws

Torque range

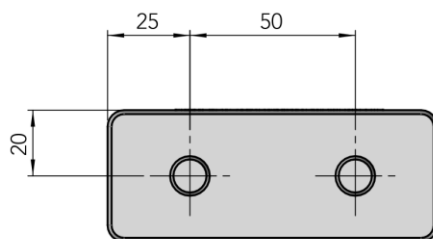
RC-series

**RC-38 / RC-78**

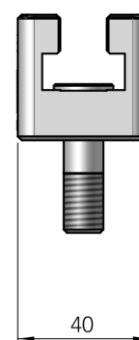
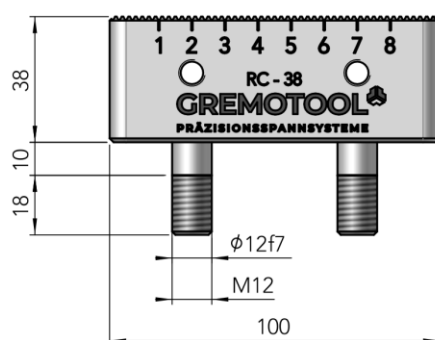
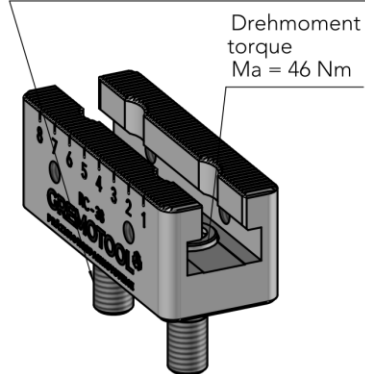
M_a max.	52 Nm
M_a min.	8 Nm
F max.	30 kN
F min.	2 kN

Dimension

RC-Base rail L=100

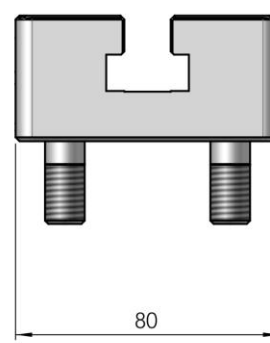
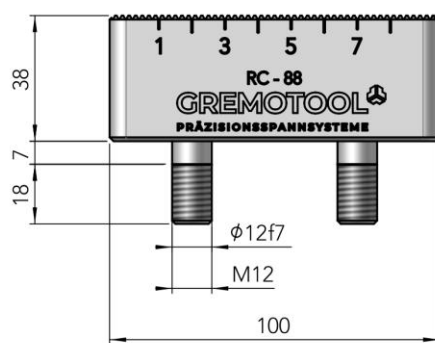
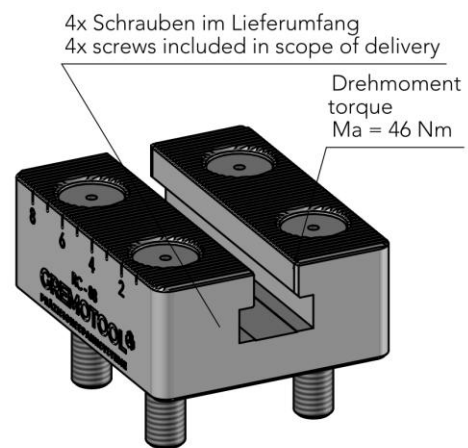
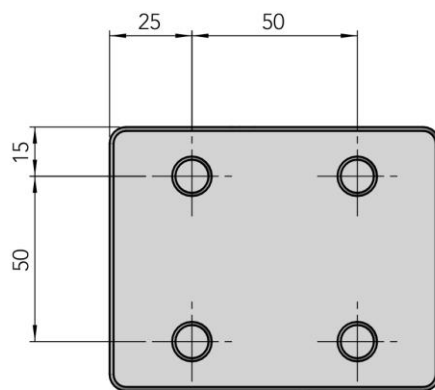


2x Schrauben im Lieferumfang
2x screws included in scope of delivery



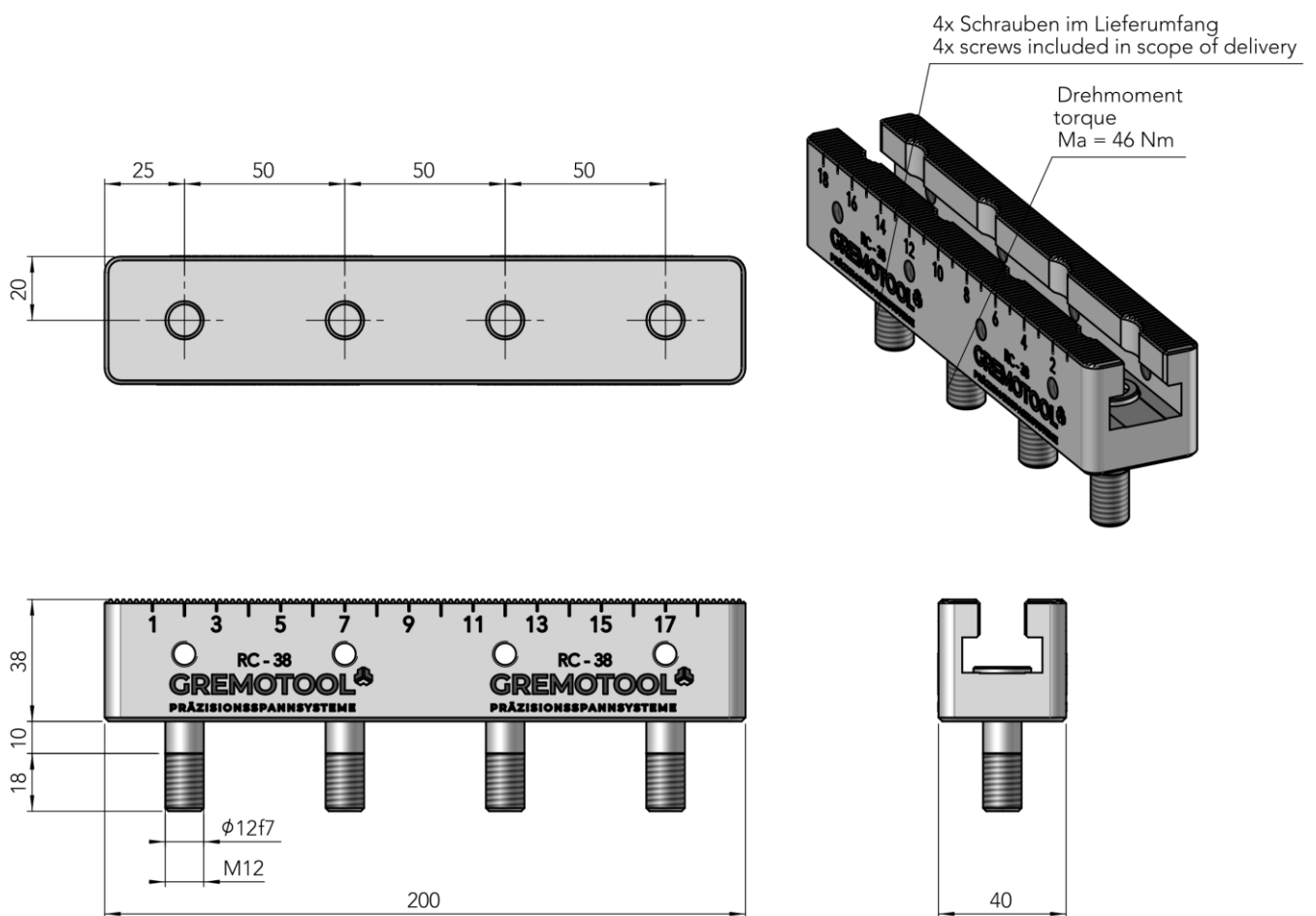
Dimension

RC-Base rail L=100



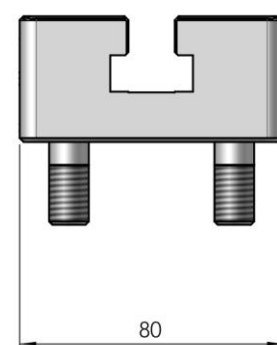
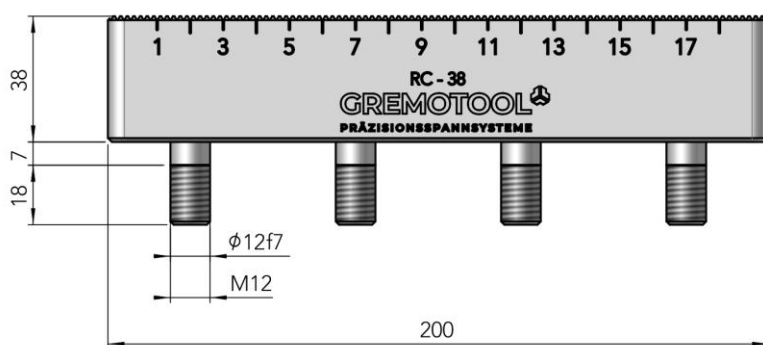
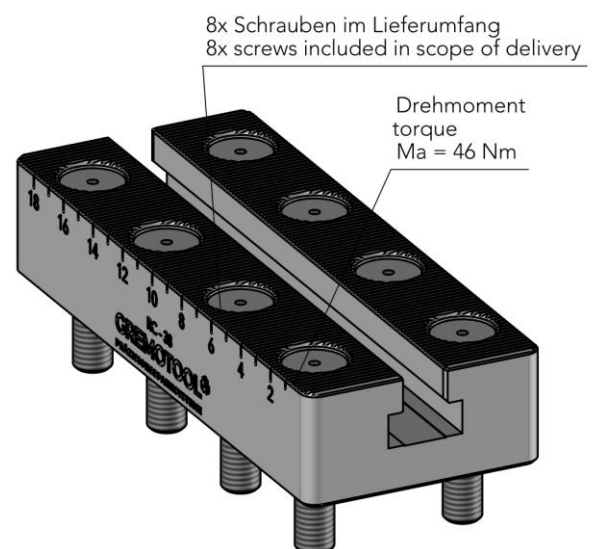
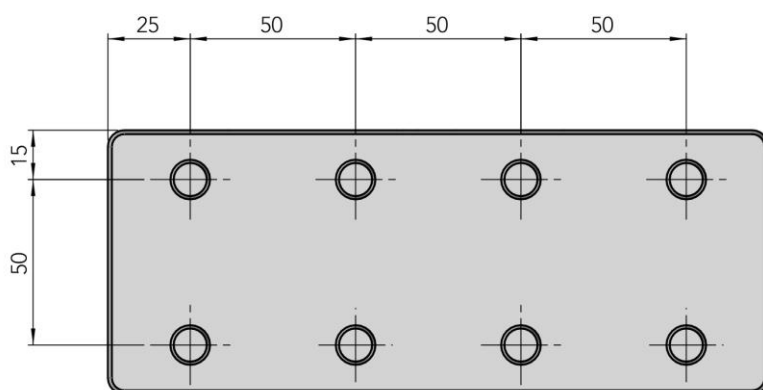
Dimension

RC-Base rail L=200



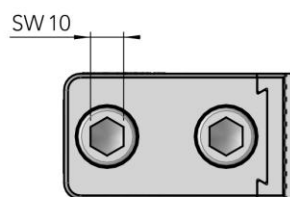
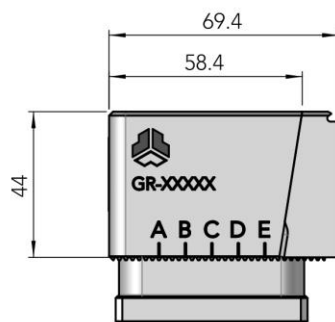
Dimension

RC-Base rail L=200



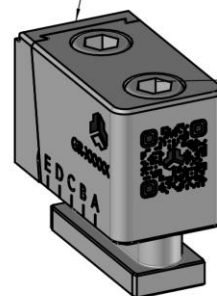
Dimension

Fixed module one sided



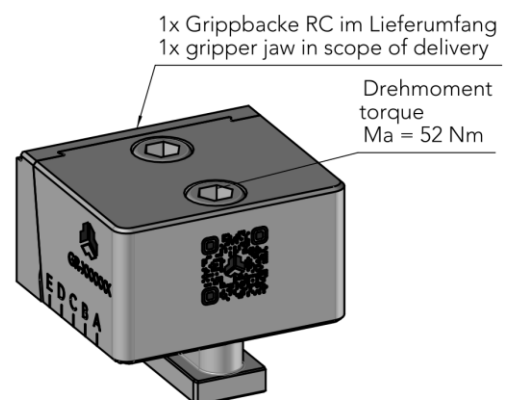
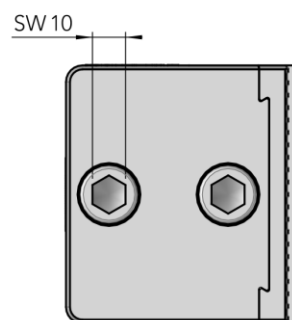
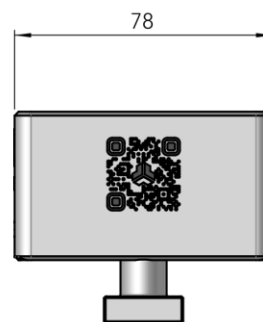
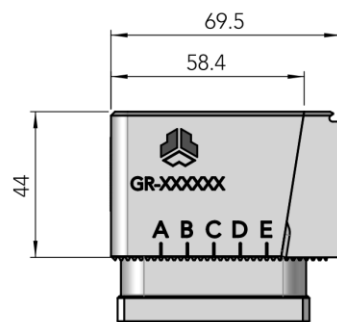
1x Grippbacke RC im Lieferumfang
1x gripper jaw in scope of delivery

Drehmoment
torque
 $M_a = 52 \text{ Nm}$



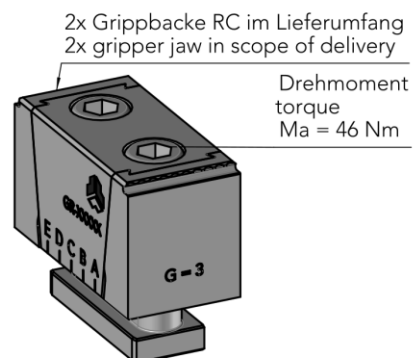
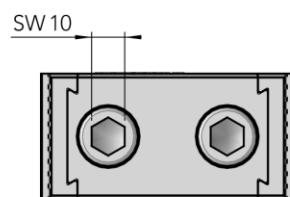
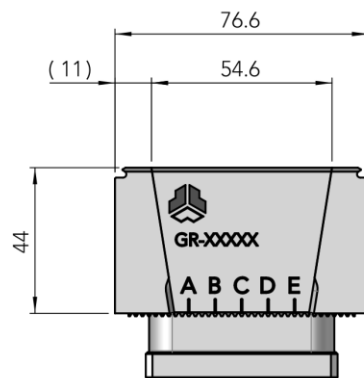
Dimension

Fixed module one sided



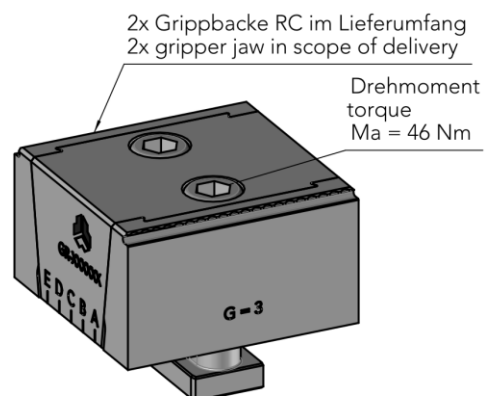
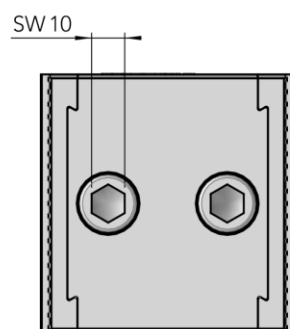
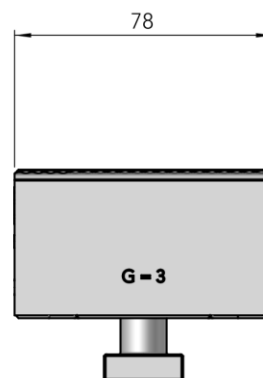
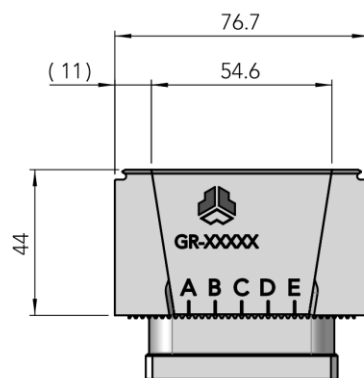
Dimension

Fixed module double sided



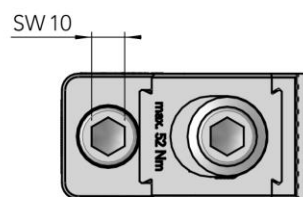
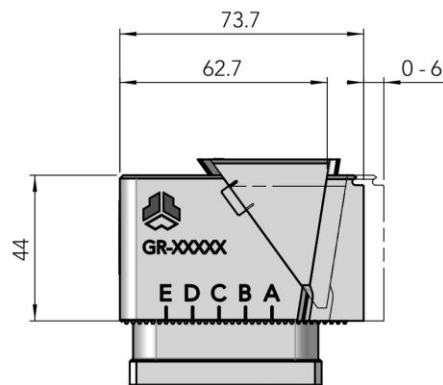
Dimension

Fixed module double sided



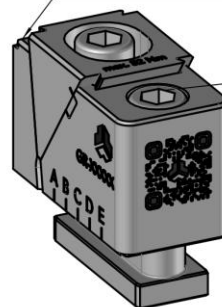
Dimension

Clamping module on sided



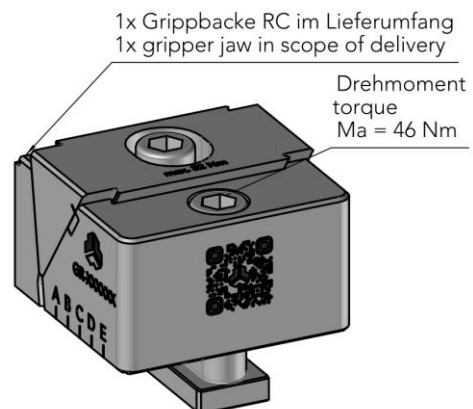
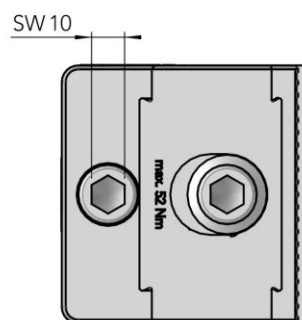
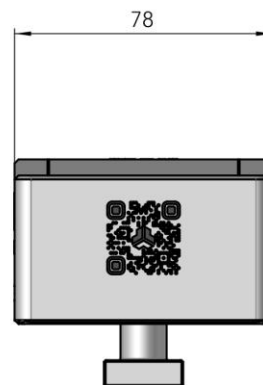
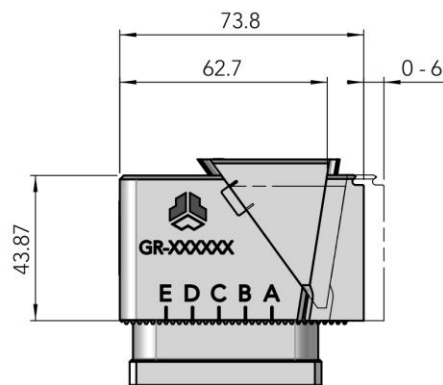
1x Grippbacke RC im Lieferumfang
1x gripper jaw in scope of delivery

Drehmoment
torque
 $M_a = 46 \text{ Nm}$



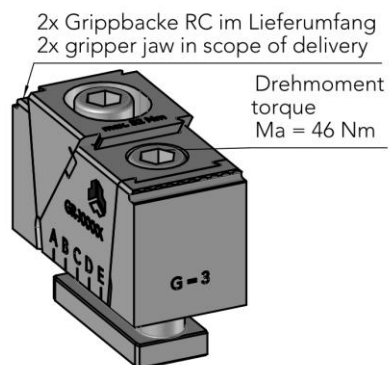
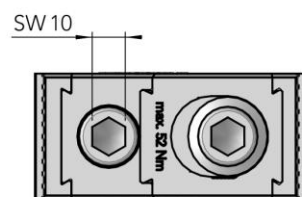
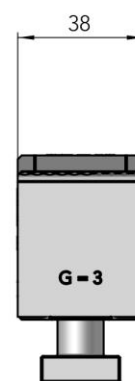
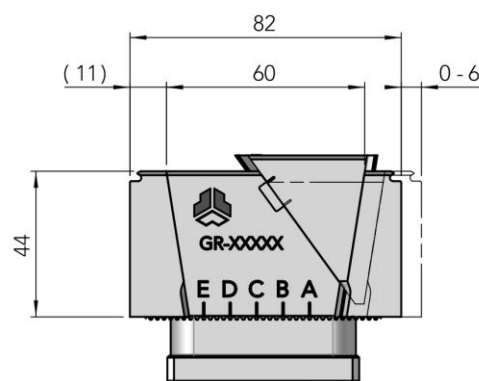
Dimension

Clamping module on sided



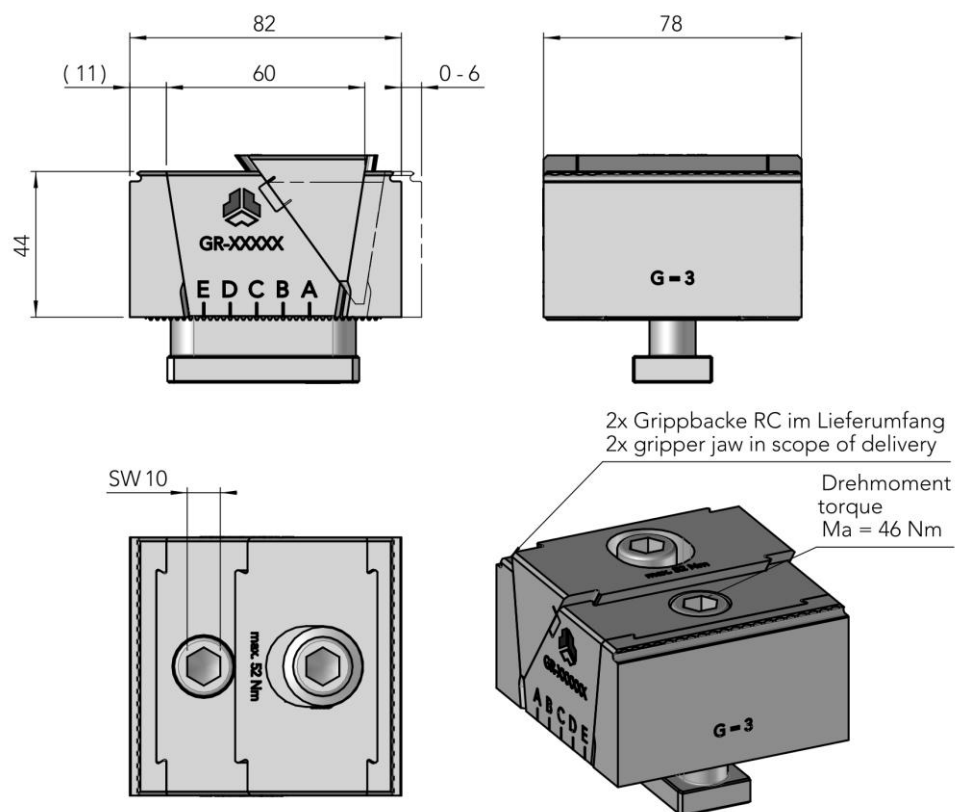
Dimension

Clamping module with fixed side



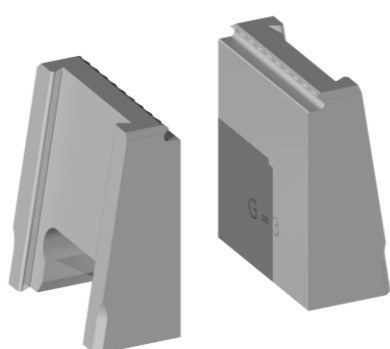
Dimension

Clamping module with fixed side

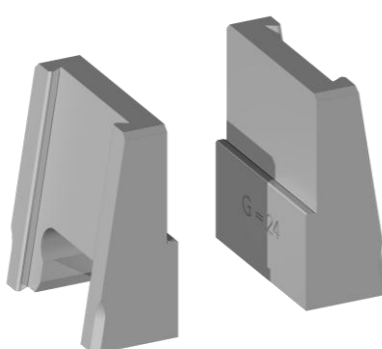


Accessories

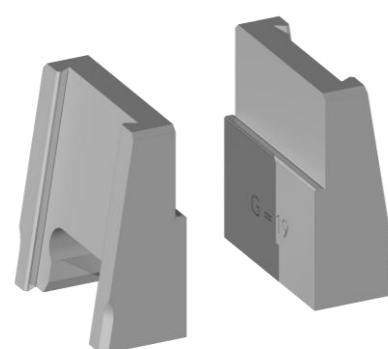
Jaws



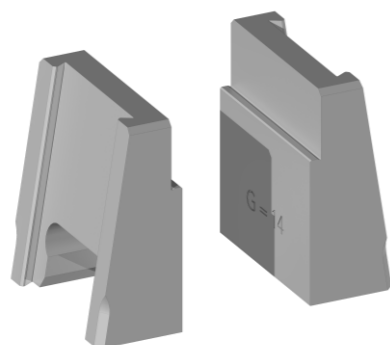
Gripper jaw RC
Nr. 835380



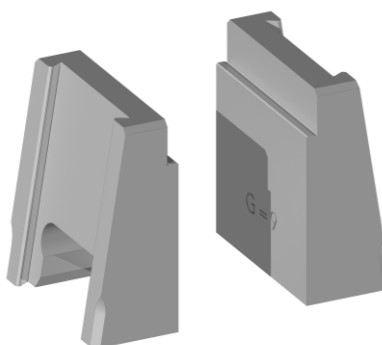
Stepped jaw RC G=24
Nr. 835480



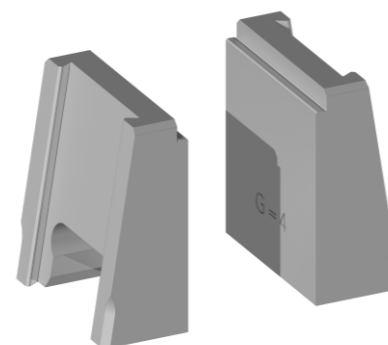
Stepped jaw RC G=19
Nr. 835481



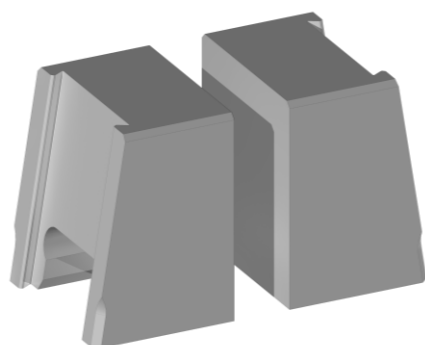
Stepped jaw RC G=14
Nr. 835482



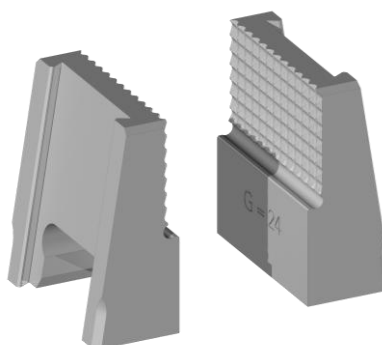
Stepped jaw RC G=9
Nr. 835483



Stepped jaw RC G=4
Nr. 835484



Soft jaw steel RC
Nr. 835703



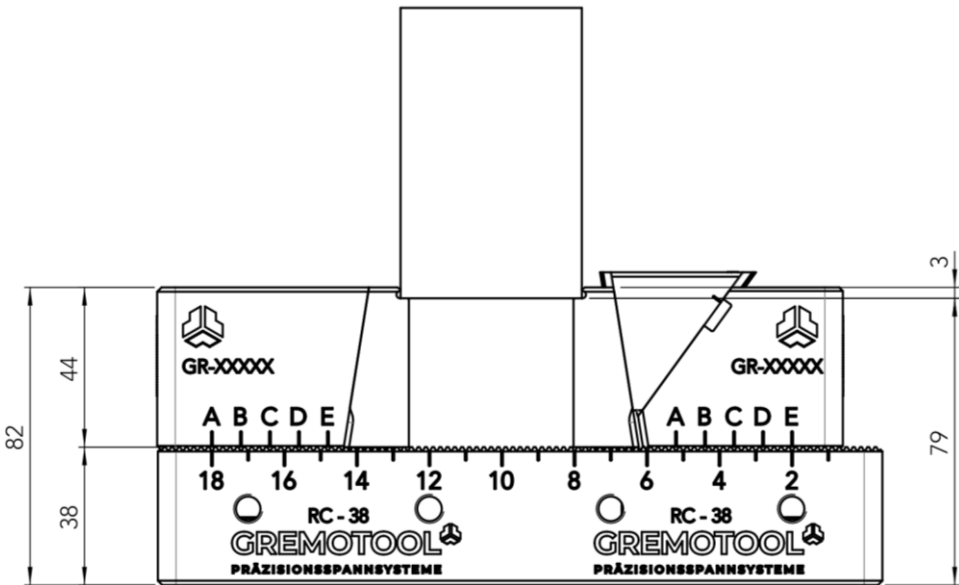
Serrated jaw RC G=24
Nr. 835802

Accessories

Height calculation of RC-system

Calculation example

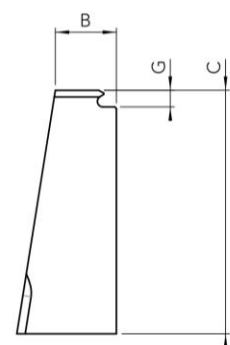
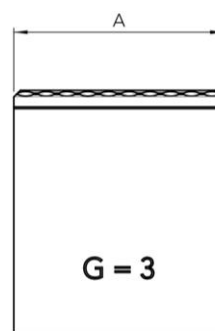
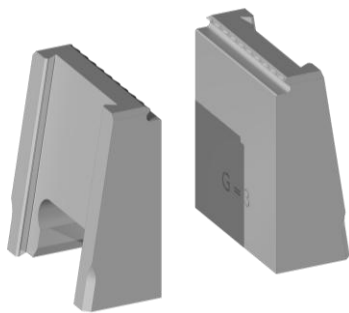
	Type	Operator	Hight [mm]
Base rail	Base rail L200	+	38
Jaw height	835380-B38	+	44
Tooth height	835380-B38	-	3
Sum		=	79



Accessories

Gripper jaws RC

The gripper jaws RC are specially developed for the RC-series. This jaw has a very short design to enable a maximum clamping range of the clamping systems with short modules. The gripper toothing has a pull-down effect, which is reinforced by the bevelled back. As a result, the workpieces always lie at the same depth and are securely clamped.

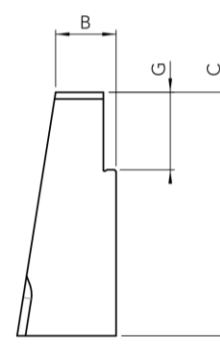
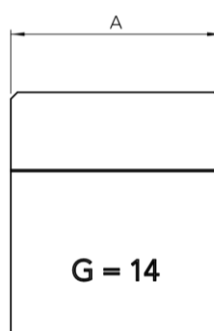
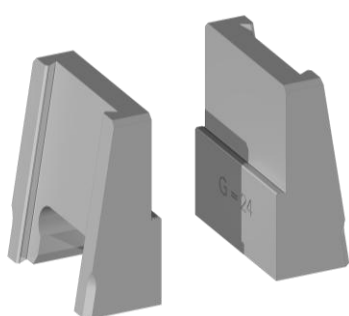


Order code		835380- B38	835380- B78
A	Jaw width	38	78
B	Jaw length [mm]	11	11
C	Jaw height [mm]	44	44
G	Tooth height [mm]	3	3

Accessories

Stepped jaws RC

The stepped jaws RC are the first choice when it comes to surface clamping on machined surfaces. The step enables a level insertion, and the clamping surfaces a strong fixation of the workpiece. Various step heights can be selected with the different order numbers, depending on the application.



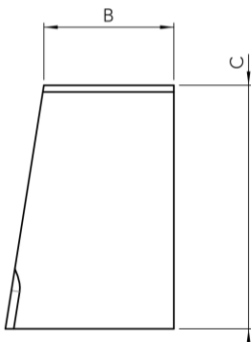
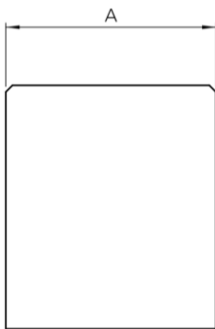
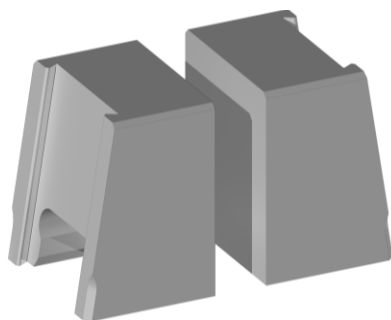
Order code		835480- B38	835481- B38	835482- B38	835483- B38	835484- B38
A	Jaw width	38	38	38	38	38
B	Jaw length	[mm]	11	11	11	11
C	Jaw height	[mm]	44	44	44	44
G	Step height	[mm]	24	19	14	9

Order code		835480- B78	835481- B78	835482- B78	835483- B78	835484- B78
A	Jaw width	78	78	78	78	78
B	Jaw length	[mm]	11	11	11	11
C	Jaw height	[mm]	44	44	44	44
G	Step height	[mm]	24	19	14	9

Accessories

Soft jaws steel RC

The soft jaws steel RC are suitable for the in-house production of clamping jaws. Negative contours or holders for additional clamping elements can be easily incorporated into the steel jaws. As a result, this type of jaw can be used for a wide variety of tasks and workpieces. Subsequent hardening is possible to maximise the wear resistance of the jaws.

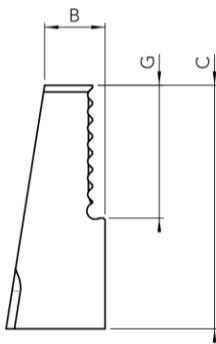
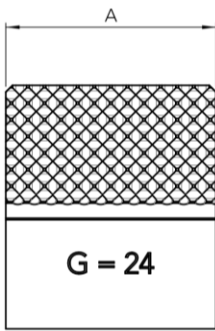
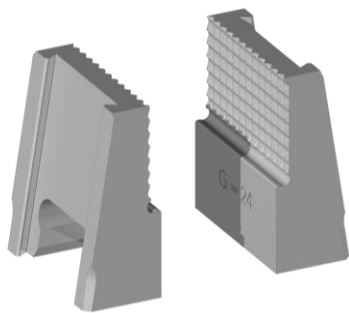


Order code		835703- B38	835703- B78
A	Jaw width	38	78
B	Jaw length	[mm] 23.5	23.5
C	Jaw height	[mm] 44	44

Accessories

Serrated jaws RC

The serrated jaws RC are suitable for clamping raw workpieces. The serrated surface of the jaws provides additional grip and prevents the workpiece from moving during processing. This is particularly important for work that requires precision. These jaw inserts also have a pull-down effect so that the workpieces in a series are positioned at the same depth.

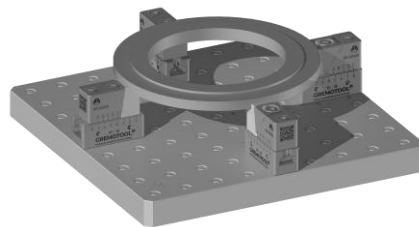


Order code		835802- B38	835802- B78
A	Jaw width	38	78
B	Jaw length	[mm] 11	11
C	Jaw height	[mm] 44	44
E	Tooth height	[mm] 24	24

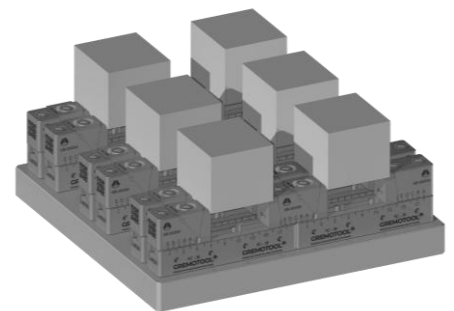
Applications

Fixtures

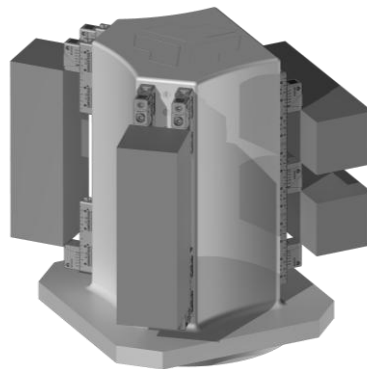
To achieve maximum flexibility and runtime on the processing machines, the RC base rails, and RC modules can be used on grid hole plates, pyramids and towers. The modular design and ease of assembly enable maximum utilisation and utilisation of the machine.



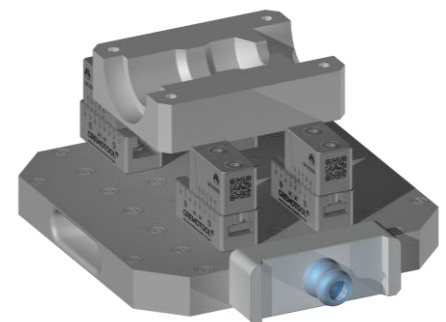
Clamping Device: 2x RC-38
Fixture: MTS



Clamping Device: 12x RC-38
Fixture: MTS



Clamping Device: 8x RC-38
Fixture: Turm



Clamping Device: 2x RC-38
Fixture: UPC-320



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