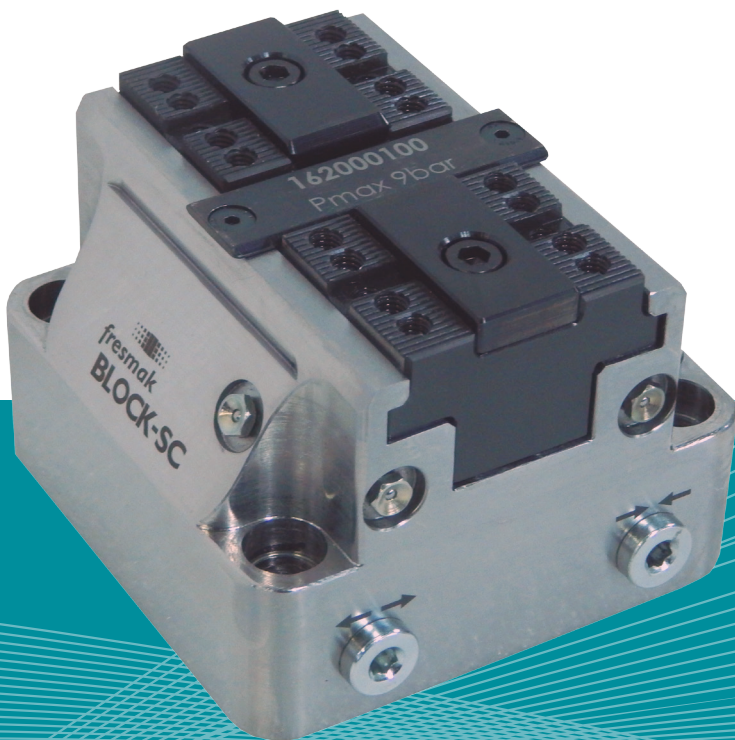




# *fresmak* **BLOCK-SC**



**Self-centering static blocks**



**Fresmak** was founded in 1967 focused on manufacturing **high pressure vices**.

Nowadays, it has a **wide range** of clamping solutions and exports to over **50 countries** worldwide.



Above all, **Fresmak** are **people**. **Highly trained** professionals with a constant attitude to improve and innovate in all processes; from planning right up to its implementation at the customers facilities.

## ✓ Specialist in **clamping solutions**



## 📍 A strategic **location** for a fast and efficient service



### ● Commercial network

Germany · USA · España · France · Netherlands  
Ireland · Italy · United Kingdom · Czech Republic

### ▲ Clients

Germany · Argentina · Australia · Austria · Belgium  
Brazil · Canada · Chile · Colombia · Denmark  
USA · Slovakia · Slovenia · Spain · Estonia  
France · Finland · Greece · Holland · Hungary · India  
Iceland · Ireland · Italy · Luxembourg · Mexico  
Norway · Peru · Poland · Portugal · United Kingdom  
Czech Republic · Dominican Republic · Romania  
Russia · Singapore · Sweden · Taiwan · Turkey  
Ukraine · Venezuela

# At Fresmak **INNOVATION** is not an option is **OUR ATTITUDE**



## **Values** that make us different

### Experience



**Fresmak** is the **first high pressure vice manufacturer** in the world, focused ever since exclusively on clamping through an interactive sharing with its clients.

This has allowed **Fresmak** to acquire a degree of knowledge and experience that guarantees its customers the **best solution** for clamping their workpieces.

### Specialization



**Fresmak** has a wide and **complete range** of clamping solutions, both standard and customized.

The company is constantly **investing in R + D + i** and is involved in innovation projects, both nationally and internationally, where it is considered a specialist in clamping.

### Service



**Fresmak** offers a **direct and individual attention** to all its customer.

It also answers quickly and flexibly to offers as well as to orders, as it has **95% of the standard product in its warehouse**.

**Repair and maintenance service** are also available for customers.

## **Keys** that help Fresmak become a worldreference in clamping systems



- ✓ **Absolute expertise in the product.**
- ✓ **A team of highly qualified and experienced people.**
- ✓ **Latest technology.**
- ✓ **Constant R & D investment.**

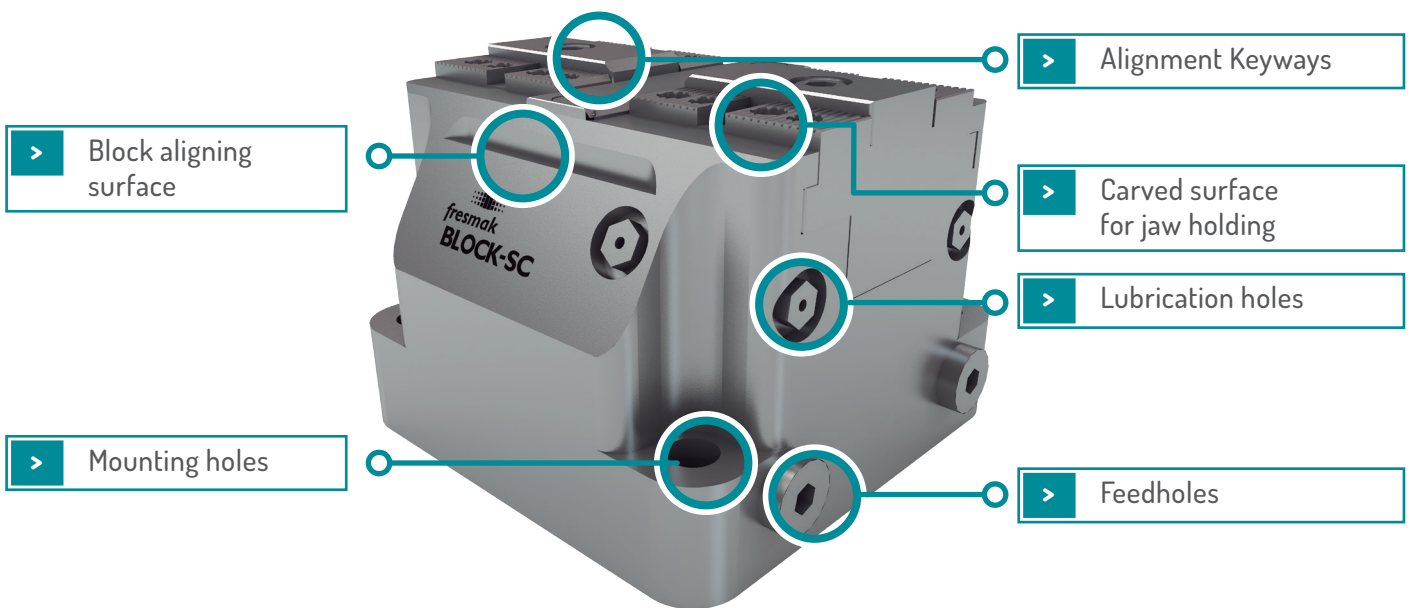
# BLOCK-SC

Fresmak introduces its new product range **SELF-CENTERING BLOCKS, BLOCK-SC**, specially aimed at **mass production** of work pieces clamped in **minimum spaces**.

These blocks combine **clamping strength** with a **long automatic advance** and return stroke for a faster change of the work-piece .

Its **construction** is **compact**, hermetic, well-contoured and as reduced as possible in order to optimize its use in multi-axis machines, with total access to all sides facilitating the use of shorter tools.

## BLOCK-SC features



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# BLOCK-SC Hydraulic



## Set supplied

- > Body
- > 2 body dowel pins
- > 4 screws
- > Instruction manual

## Functioning

Hydraulically actuated wedge clamping system: the multiplication of the hydraulic force is performed by actuating the wedges. These wedges are ground in order to give rigidity and precision to the set.

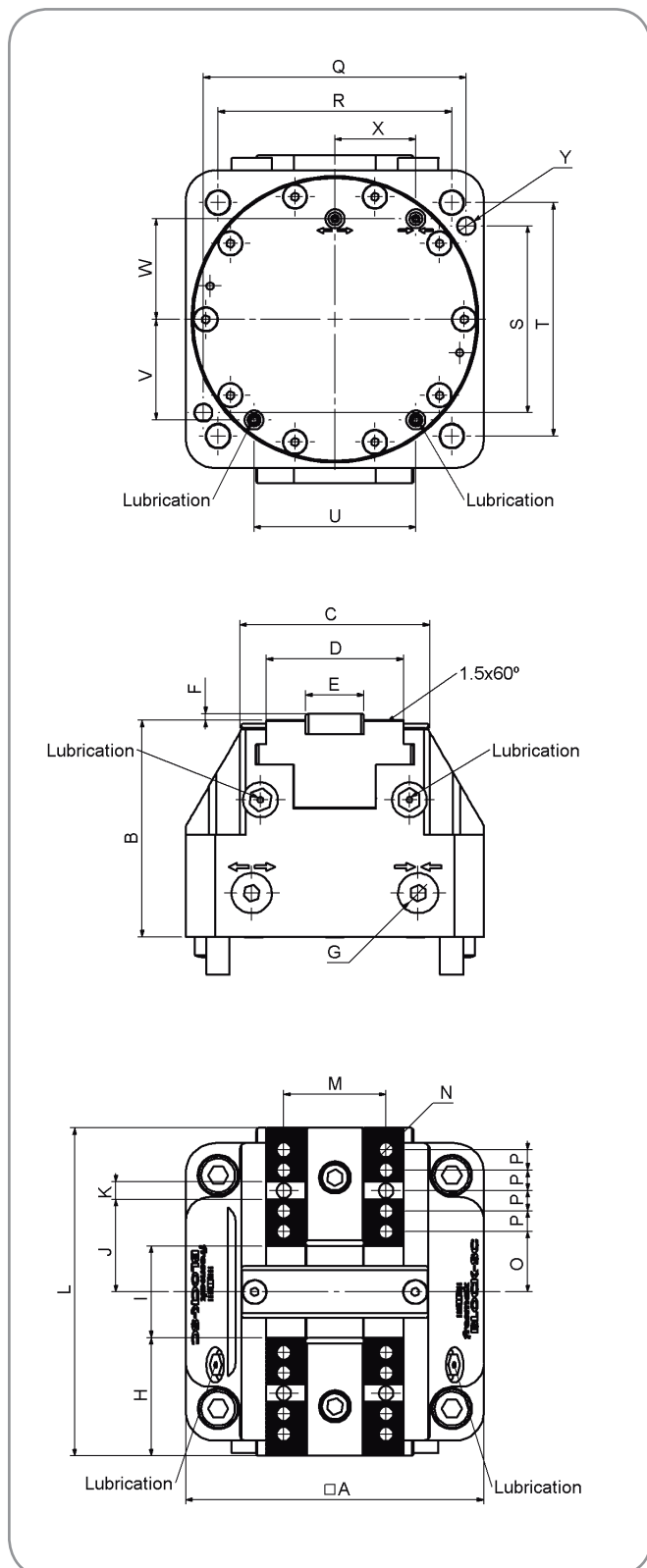
- > **Hydraulic static blocks** reach a pressure between 16 kN and 40 kN with an infeed power of 120 bar

## ⊕ Features

- Stroke range of 6 and 8mm
- Double effect actuating
- Repeatability accuracy of 0.020 mm
- Long guides
- All basic components are hardened
- Basic surfaces are ground
- Entirely compact and fully protected against chips
- Total lubrication system. Greasing channels within the base jaw and base body
- The oil supply for machining and lubrication can be performed from the sides or the base of the body
- Hydraulic supply up to 120 bar

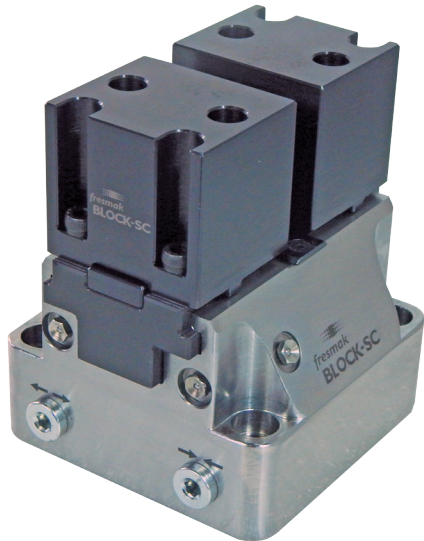
Size	Gripping force	Max. operating pressure	Jaw stroke	Repeatability	Max. jaw height	Oil consumption	Weight
	kN	bar	mm	mm	mm	cm <sup>3</sup>	kg
100	16	120	6	0,01	60	30	5
160	40	120	8	0,02	60	90	14

## BLOCK-SC Hydraulic - Technical information



Size	100	160
Ref.	122000100	122000160
A	102	160
B	74,2	89,2
C	65	104
D	47	78
E	20g6	32g6
F	2,3	3
G	G1/8	G1/8
H	40,5	67,5
I	19,2 - 31,5	26 - 42,3
J	25,6 - 31,7	45,3 - 53,5
K	6H7	8H7
L	112,4	177,3
M	35	60
N	M6x10	M8x14
O	14,6 - 20,7	19,3 - 27,5
P	7	10
Q	90	146
R	80	125
S	64	106
T	80	125
U	55,4	84
V	34,5	59,1
W	34,5	54
X	27,7	48,4
Y	6H7x12	8H7x14

# BLOCK-SC Pneumatic



> **Pneumatic static blocks** reach a pressure between 8 kN and 20 kN with an infeed power of 6 bar

## ⊕ Features

- Stroke range of 6 and 8mm
- Double effect actioning
- Repeatability accuracy of 0.020 mm
- Long guides
- All basic components are hardened
- Basic surfaces are ground
- Entirely compact and fully protected against chips
- Total lubrication system. Greasing channels within the base jaw and base body
- The air supply for machining and lubrication can be performed from the sides or the base of the body
- Pneumatic supply up to 9 bar

## Set supplied

- > Body
- > 2 body dowel pins
- > 4 screws
- > Instruction manual

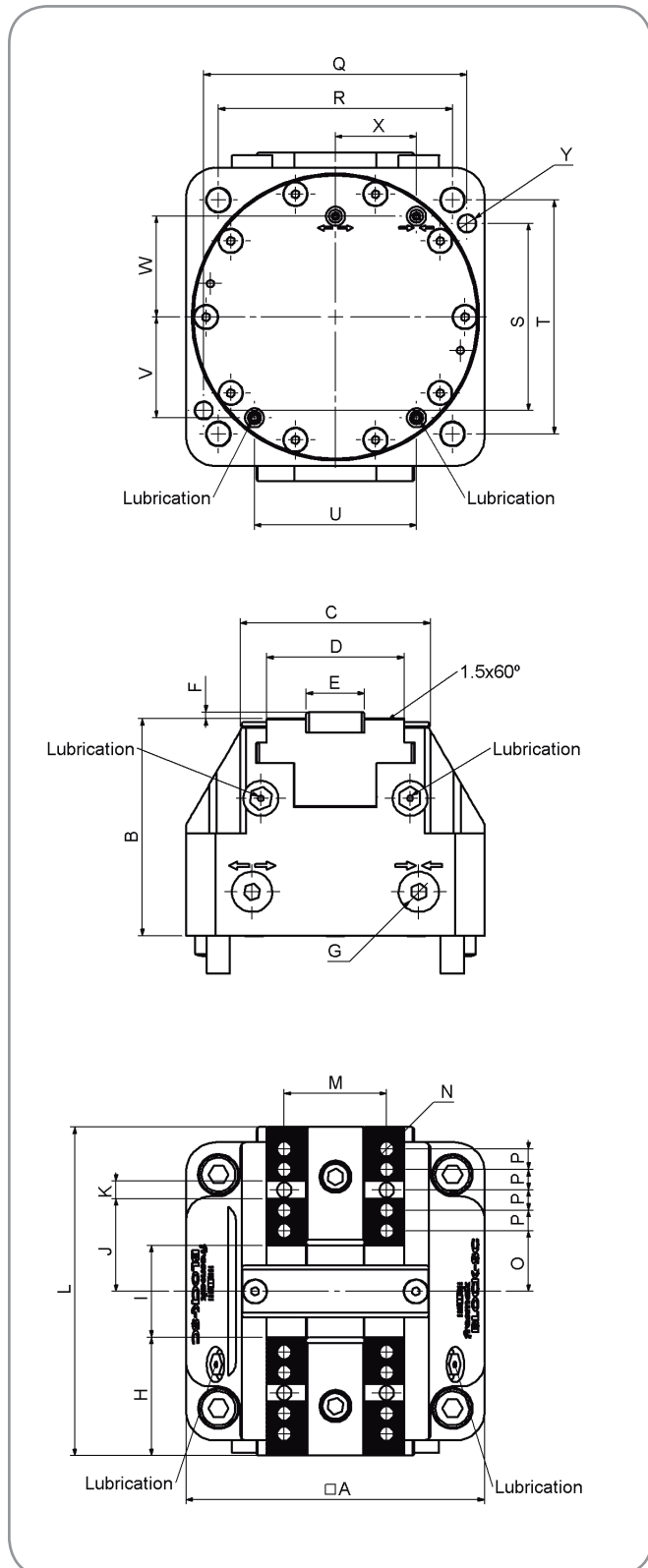
## Functioning

Pneumatically actioned wedge clamping system: the multiplication of the pneumatic force is performed by actioning the wedges. These wedges are ground in order to give rigidity and precision to the set.

Size	Gripping force	Max. operating pressure	Jaw stroke	Repeatability	Max. jaw height	Air consumption	Weight
	kN	bar	mm	mm	mm	cm <sup>3</sup>	kg
<b>100</b>	8	6	6	0,01	150	160	4,5
<b>160</b>	20	6	8	0,02	200	500	12,5



## BLOCK-SC Pneumatic - Technical information

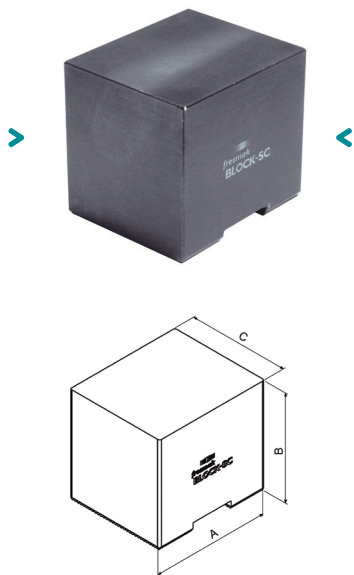


Size	100	160
Ref.	162000100	162000160
A	102	160
B	74,2	89,2
C	65	104
D	47	78
E	20g6	32g6
F	2,3	3
G	G1/8	G1/8
H	40,5	67,5
I	19,2 - 31,5	26 - 42,3
J	25,6 - 31,7	45,3 - 53,5
K	6H7	8H7
L	112,4	177,3
M	35	60
N	M6x10	M8x14
O	14,6 - 20,7	19,3 - 27,5
P	7	10
Q	90	146
R	80	125
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T	80	125
U	55,4	84
V	34,5	59,1
W	34,5	54
X	27,7	48,4
Y	6H7x12	8H7x14



- 3 sets of jaws for each model of BLOCK-SC available
- Fast and accurate change of jaws
- Carved or with keyways within the jaws (depending on the jaw)
- Different work pieces can be clamped just by changing jaws

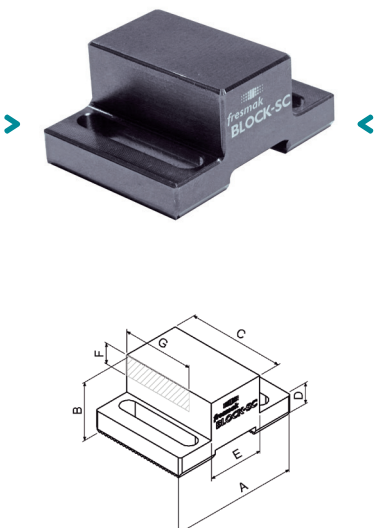
## > Wide jaw



> Jaw	Soft jaw
> Material	F-1550 (18crMoS4) Can be hardened
> Assembly	Carved 1.5 x 60°

Ref.	192231100	192231160
A	55	80
B	50	80
C	47	76

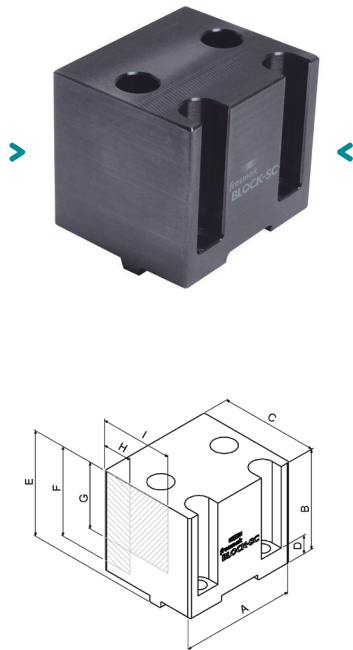
## > Narrow jaw



> Jaw	Soft jaw, slotted
> Material	F-1550 (18crMoS4) Can be hardened
> Assembly	Carved 1.5 x 60°

Ref.	192230100	192230160
A	55	80
B	25	40
C	42	60
D	9	12
E	24	45
F	9	19
G	31	40

## > Jaw with keyways



- > **Jaw** Soft jaw with fixing holes

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- > **Material** F-1550 (18crMoS4)  
Can be hardened

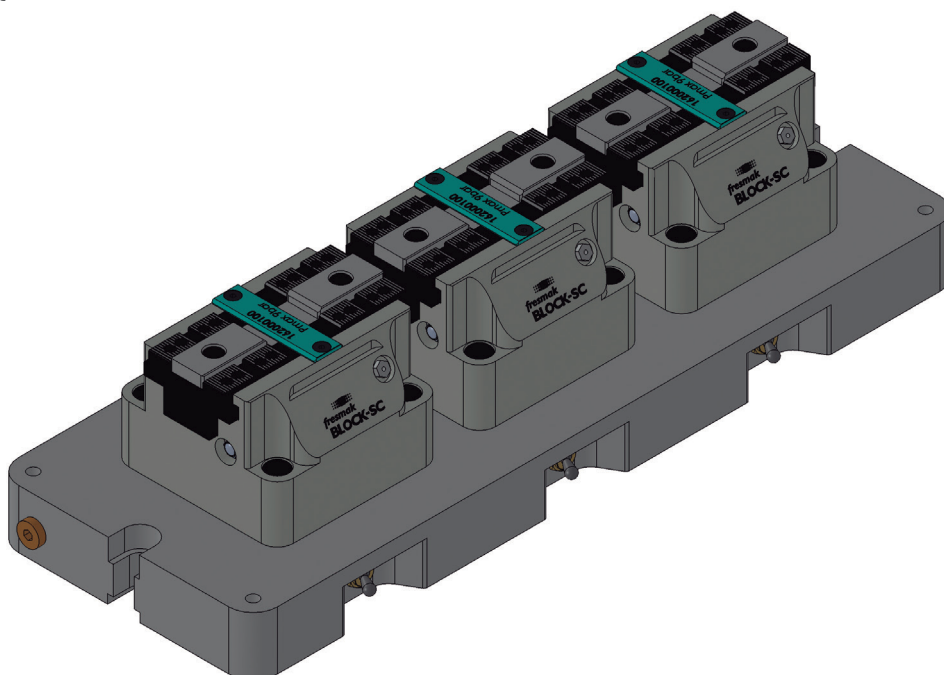
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- > **Assembly** Keyways

Ref.	192232100	192232160
A	55	80
B	48	77,5
C	47	80
D	9	12
E	50,6	80,5
F	43	70
G	32	57
H	14	28
I	35	51

## > Plates and Cubes

Upon request





**fresmak**



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**ARNOLD**



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**BLOCK-SC**

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