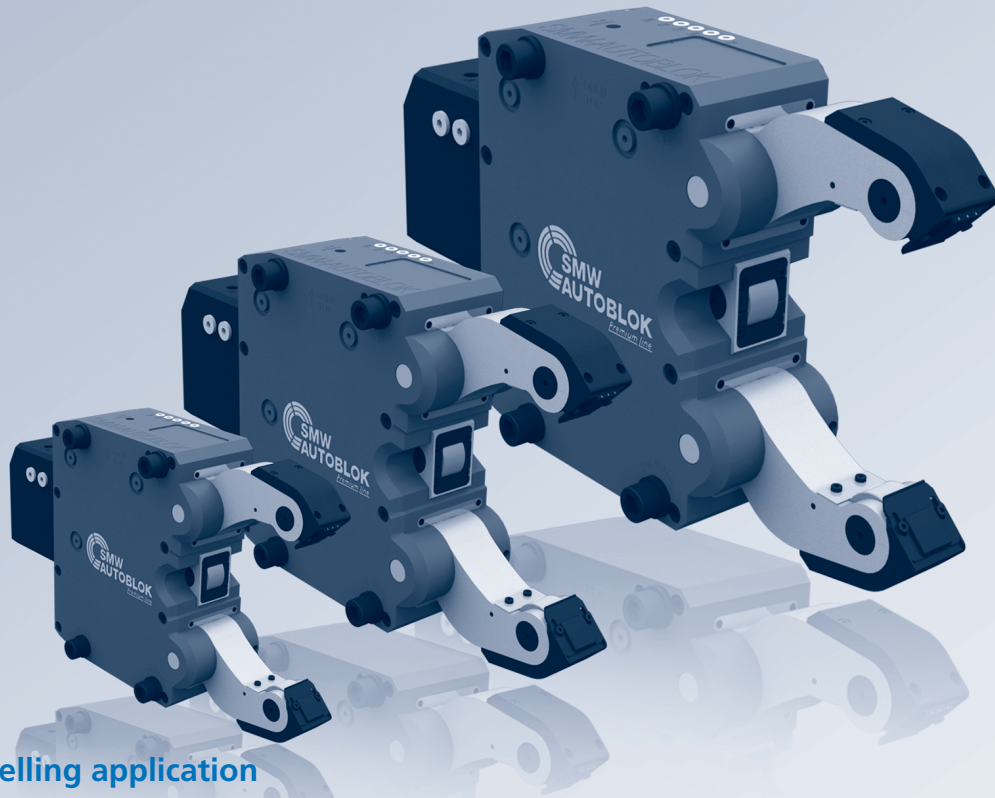


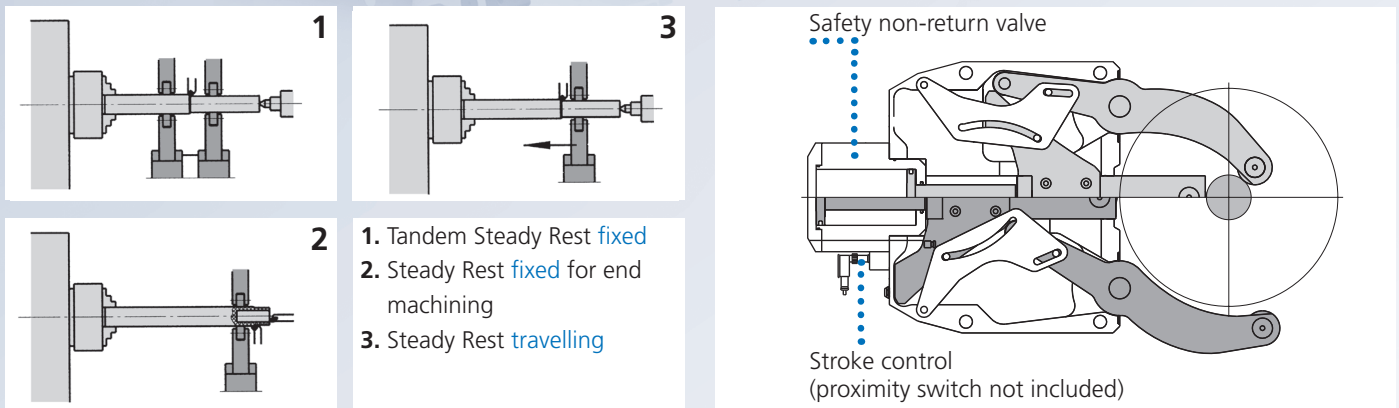
# SMW-AUTOBLOK

## worldwide leader

## in Steady Rests



### Fixed or travelling application



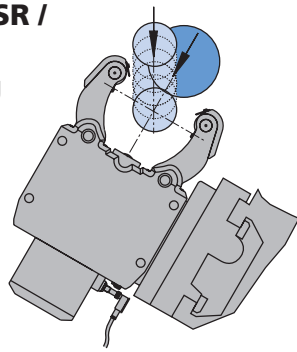
1. Tandem Steady Rest **fixed**
2. Steady Rest **fixed** for end machining
3. Steady Rest **travelling**

## Features included in standard range

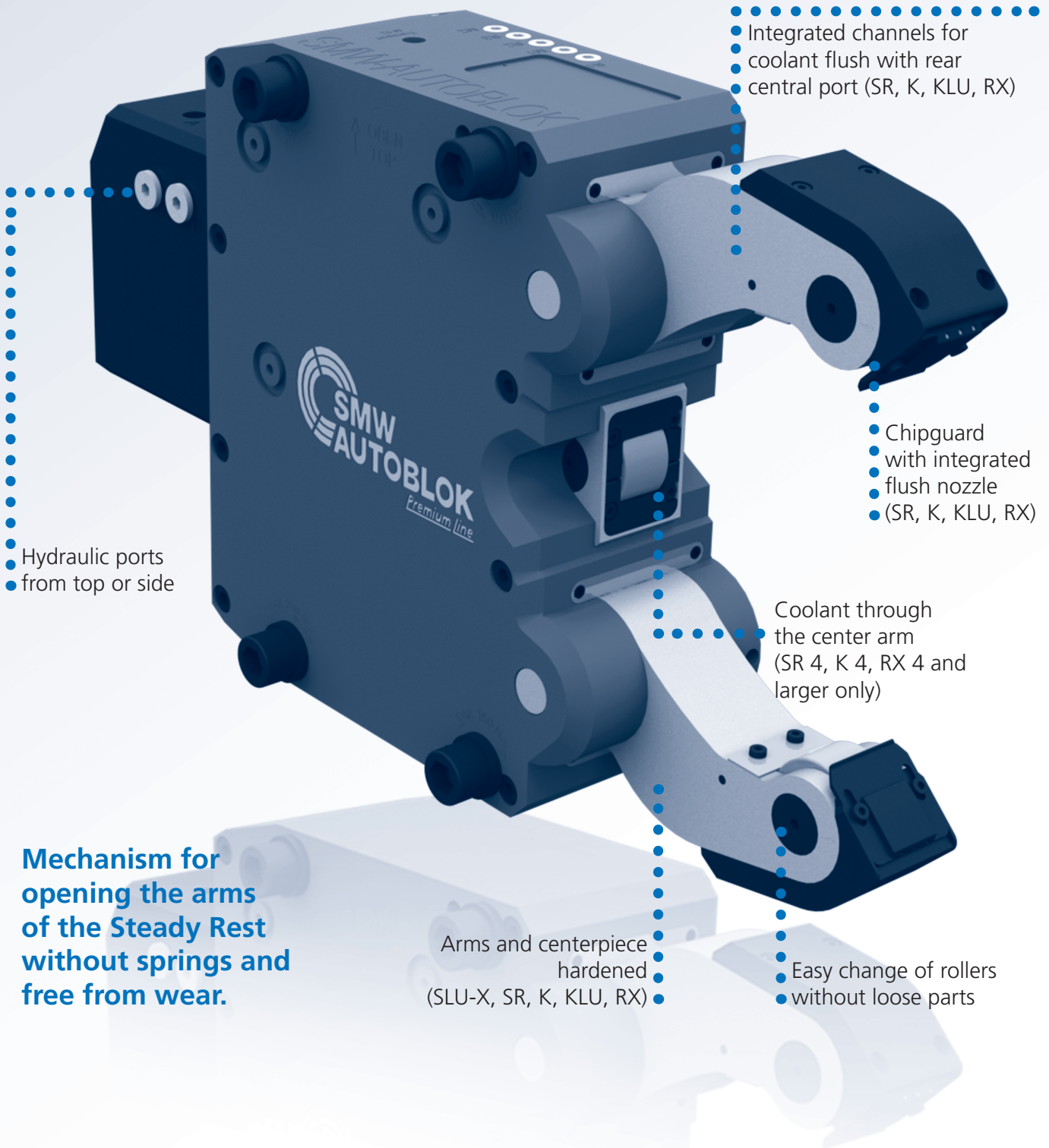
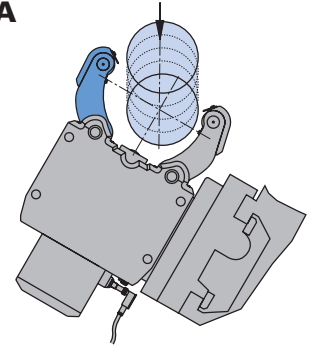
Steady Rest Type	Standard Line		Basic Line	Premium Line					
	SLU-X	SLUB, SLUB-A		SR	SRA	SR-CL	K, KA	KLU, KLU-A	RX
<b>Steady Rest Size</b>	1 - 5.1	3 - 6	1 - 6	2 - 6	2 - 6	4 - 6	3 - 7.1	215 - 540	2 - 6.1
Sealed body	■	■	■	■	■	■	■	■	■
Safety valve	■	■	■	■	■	■	■	■	■
Stroke control (proximity switch not included)	■	■	■	■	■	■	■	■	■
1 set swarf guard 3-piece	■	■	■						
1 set swarf guard with integrated coolant flush				■	■	■	■	■	■
1 set cylindrical rollers	■	■	■	■	■	■	■	■	■
Port for compressed air	■	■	■	■	■	■	■	■	■
Port for coolant through arms incl. chipguard				■	■	■	■	■	■
Toolbox	■	■		■	■	■	■	■	■

# SLU-X® · SR® · K · KLU · RX

**SLU-X / SLU / SR /  
K / KLU / RX**  
large clamping  
range



**SLU-A / SRA / KLU-A / KA**  
additional pivoting  
upper arm  
for automatic vertical  
loading



- Integrated channels for coolant flush with rear central port (SR, K, KLU, RX)

- Hydraulic ports from top or side

- Chipguard with integrated flush nozzle (SR, K, KLU, RX)

- Coolant through the center arm (SR 4, K 4, RX 4 and larger only)

**Mechanism for opening the arms of the Steady Rest without springs and free from wear.**

- Arms and centerpiece hardened (SLU-X, SR, K, KLU, RX)

- Easy change of rollers without loose parts

**SLU-X<sup>®</sup>**  
**SLUB / -A**

**SLU**  
**SLU-A**

**SR<sup>®</sup> / -CL**  
**SRA**

**KLU / -A**  
**K / KA**

**RX**

### Option of manual lubrication (M) (all types)

- Low cost solution for medium working conditions and low build up of swarf.
- The lubrication points and rollers are supplied with lubrication grease via the grease nipples and the grease gun.
- Lubrication intervals depending on the working conditions normally every 4 to 8 operating hours.
- Grease: KPE 2R-20 DIN 51502.

### Option of central oil lubrication (Z) (all types)

- For heavy working conditions and high build up of swarf.
- For travelling Steady Rest applications.
- The use of our separate complete lubrication unit with timer control is recommended.
- Lubricating intervals 5 - 20 min.
- Min. / max. operating pressure 10 / 45 bar.
- Oil: Viscosity of 46 mm<sup>2</sup> / s (viscosity class ISO).

### Option of central lubrication oil + air (OLD) (all types)

- For heaviest cutting conditions with high built up of swarf, dust or coolant.
- The SMW-AUTOBLOK oil + air unit for lubrication with built-in timer control is mandatory.
- This unit injects oil for lubrication into the air hose in adjustable intervals ( 1 - 4 min.).
- The permanent air flow (min. 3 bar) feeds the oil to the rollers and keeps them clean.
- Oil: Viscosity of 46 mm<sup>2</sup> / s (viscosity class ISO).

### Option of central grease lubrication (F) (not SLU / SLU-A / SLUB / SLUB-A)

- For machines with central grease lubrication.
- For application and intervals please follow the instruction of the machine maker.
- Min. / max. operating pressure 30 / 45 bar.
- Grease: NLGI class 0 or 1.

### Option of rollers (all types)

- SMW-AUTOBLOK rollers (precision class P05) specially developed for our Steady Rests.
- Special sealing ensures highest precision and service life.
- Standard equipment: 1 set of cylindrical rollers.
- Option: Spherical rollers (for travelling Steady Rests), synthetic material rollers, carbide rollers.

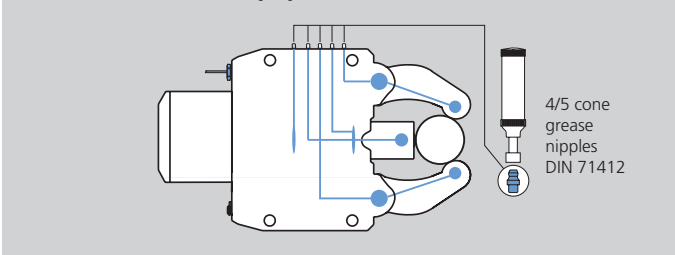
### Rollers (all types)

- Rollers steel (standard): Surface of workpiece not hardened.

#### Available optional materials:

- Rollers synthetic material: Surface of workpiece polished or chrome plated.
- Rollers carbide: Surface of workpiece hardened.

### Manual lubrication (M)

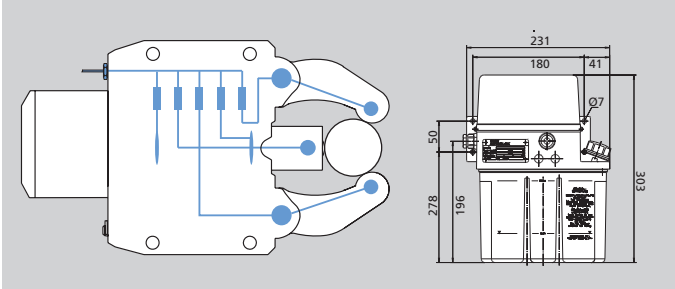


### Central lubrication oil (Z)

Centralized lubrication G 1/8"

### Lubrication unit oil

Id. No. 088707

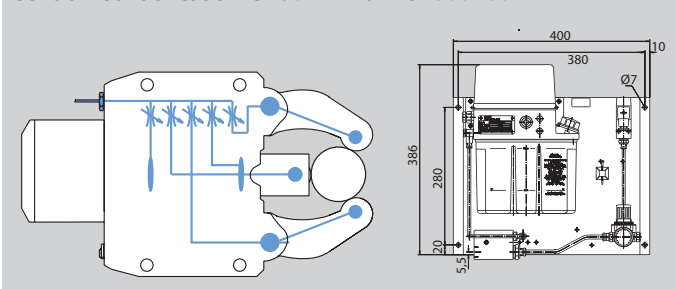


### Oil + air lubrication (OLD)

Centralized lubrication G 1/8"

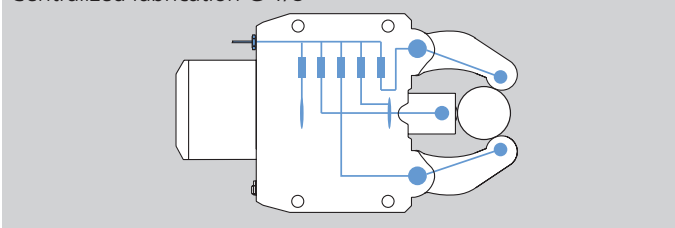
### Lubrication unit oil + air

Id. No. 088708



### Central grease lubrication (F)

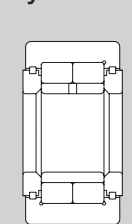
Centralized lubrication G 1/8"



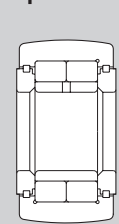
### Original SMW-AUTOBLOK roller



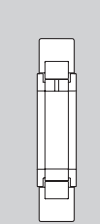
### cylindrical



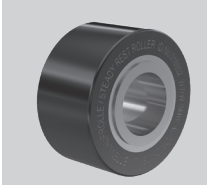
### spherical



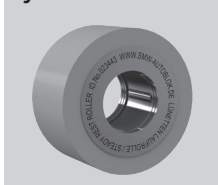
### narrow



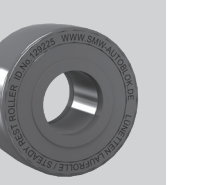
### Rollers steel



### Rollers synthetic material



### Rollers carbide



**SLU-X<sup>®</sup>**  
**SLUB / -A**

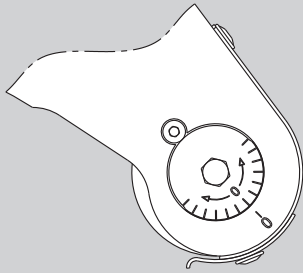
**SLU**  
**SLU-A**

**SR<sup>®</sup> / -CL**  
**SRA**

**KLU / -A**  
**K / KA**

**RX**

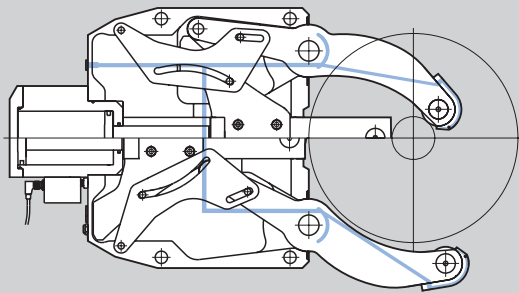
### Eccentric fine adjustment



### Option fine adjustment of center line (all types)

- Eccentric roller pins on the two Steady Rest arms allow a quick fine adjustment of the center line.
- Therefore no need to unlock and adjust the entire Steady Rest on the bracket for small adjusting movements.
- Adjustment of open Steady Rest only!

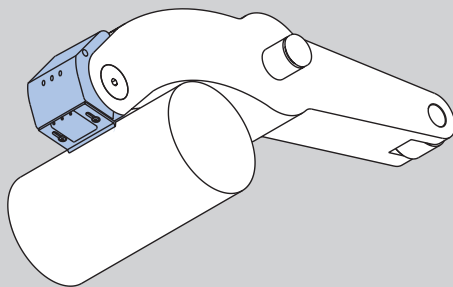
### Coolant / air feed



### Coolant / air feed (SR / K / KLU / RX only)

- Built-in channels to feed coolant or air from a central connecting port to the Steady Rest arms.
- Basic equipment for SR / K / KLU / RX Steady Rests.
- From size SR-4 / K4 and larger with coolant through the center arm.

### Chipguard coolant / air



### Patented coolant / air chipguard with integrated flush nozzles (SR / K / KLU / RX only)

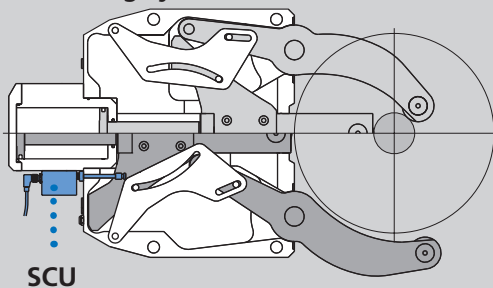
- Keeps roller clamping area free from chips.
- The patented double flush nozzles keep front and rear of the wiper area clean.

### Only for Steady Rests with coolant / air feed

#### Benefit:

- Constant centering accuracy.
- No damage of workpiece and rollers caused by chips / swarf.
- Less roller consumption = less costs.

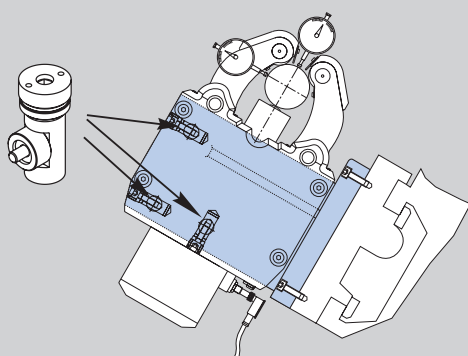
### SCU diameter measuring system



### Option linear diameter measuring system SCU (not SLU, SLUB, SLU-A, SLUB-A)

- The position of the clamping arms is monitored by the linear measuring system SCU.
- Avoids collision with workpieces, turret, loader etc.
- Reduced cycle time due to position controlled opening of the arms to the requested opening only.
- Power supply SCU: In: 24 V Out: 4 - 20 mA

### Steady Rest bracket with adjustment device



### Steady Rest bracket

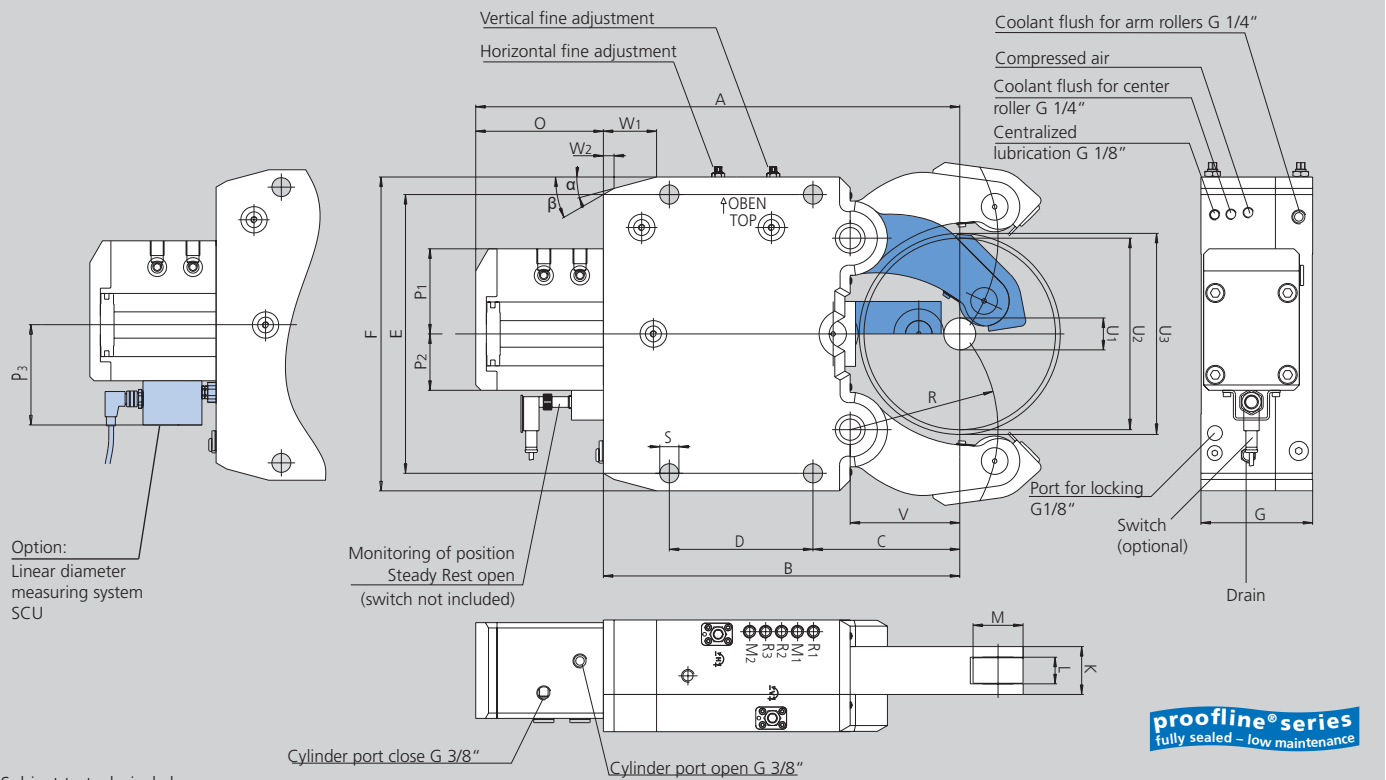
- A suitable bracket is very important for the function / precision of the Steady Rest.
- Fast and easy adjustment can be done with the SMW-AUTOBLOK **adjustment device** integrated into the bracket.
- SMW-AUTOBLOK supplies the correct bracket for all applications as a turnkey solution.



# SR-CL

Self-centering Steady Rests  
Premium line – with fine adjustment

- With fine adjustment of the clamped workpiece
- Integrated coolant flush
- Chip guard with coolant nozzles
- proofline® = fully sealed - low maintenance



Subject to technical changes.  
For more detailed information please ask our customer service.

Drain and compressed air G 1/4"

SMW-AUTOBLOK Type Size		SR-CL 4	SR-CL 5	SR-CL 5.1	SR-CL 6
<b>Id. No.</b>		<b>222070</b>	<b>222071</b>	<b>222072</b>	<b>222073</b>
Centering range with coolant chip guard	U1	30	45	85	125
	U2	245	310	350	460
Max. axial clearing diameter	U3	253	320	352	466
Horizontal adjustment range	mm	± 0.3	± 0.4	± 0.4	± 0.5
Vertical adjustment range	mm	± 0.3	± 0.4	± 0.4	± 0.5
	A	603	697	717	953.5
	B	448	510	530	715
	C	146	178	198	215
	D	240	270	270	330
	E	365	400	400	610
	F	405	440	440	680
	G	130	160	160	180
	K	60	75	75	85
Width of rollers	L	25	29	29	32
Diameter of rollers	M	52	62	62	90
	O	155	187	187	238.5
	P1	91	97	97	122
	P2	61	63	63	88
	P3	103	105	105	130
	R	172	209	229	290
	S	23	23	23	27
	V	128	160	180	190
	W1	58	62	62	22
	W2	18.3	19.1	19.1	100
	α	15°	18°	18°	10°
	β	40°	40°	40°	50°
Piston area	cm <sup>2</sup>	63.6	78.5	78.5	176.7
Operating pressure min. / max.	bar	8/70	8/80	8/80	8/75
Max. clamping force / roller	daN	1500	2000	2000	4500
Centering accuracy within the whole range	mm	0.05	0.06	0.06	0.06
Repeatability accuracy	mm	0.007	0.01	0.01	0.01
Max. roller surface speed	m/min	715	600	600	560
Weight approx.	kg	121	178	182	441

# SR-CL

Self-centering Steady Rests  
Premium line – with fine adjustment

- Ordering review
- Accessories
- Wearing parts

## SR-CL Steady Rest with stroke control Steady Rest open via proximity switch (without proximity switch)

Steady Rest size		4	5	5.1	6
SR-CL-M Manual lubrication	Id. No.	on request	on request	on request	on request
SR-CL-Z Central lubrication oil	Id. No.	222070	222071	222072	222073
SR-CL-OLD Central lubrication oil + air	Id. No.	on request	on request	on request	on request
SR-CL-F Central grease lubrication	Id. No.	on request	on request	on request	on request

## SR-CL Steady Rest with stroke control via linear stroke control SCU, output 4 - 20 mA













Steady Rest size		4	5	5.1	6
SR-CL-M Manual lubrication	Id. No.	on request	on request	on request	on request
SR-CL-Z Central lubrication oil	Id. No.	on request	on request	on request	on request
SR-CL-OLD Central lubrication oil + air	Id. No.	on request	on request	on request	on request
SR-CL-F Central grease lubrication	Id. No.	on request	on request	on request	on request

## SR-CL Steady Rest with stroke control via linear stroke control SCU, output 0 - 10 V

Steady Rest size		4	5	5.1	6
SR-CL-M Manual lubrication	Id. No.	on request	on request	on request	on request
SR-CL-Z Central lubrication oil	Id. No.	on request	on request	on request	on request
SR-CL-OLD Central lubrication oil + air	Id. No.	on request	on request	on request	on request
SR-CL-F Central grease lubrication	Id. No.	on request	on request	on request	on request

## Type SR-CL

◆ means wearing parts, recommended stock items

Steady Rest size		4	5	5.1	6
Compact lubrication system for oil pressure lubrication Container 2.7 l, 220 V *, **		088707	088707	088707	088707
Compact lubrication system for oil + air lubrication Container 2.7 l, 220 V *, **		088708	088708	088708	088708
Inductive limit switch		087926	087926	087926	087926
Swarf guard coolant / air with wiper		222594	222596	222596	221976
Wiper for swarf guard coolant/air	 ◆	222595	222597	222597	221699
Roller stripper (2-pieces) for middle piece	 ◆	200151	200152	200152	200153
Roller cylindrical design	 ◆	016953	018345	018345	028971
Roller spherical design	 ◆	018443	019545	019545	129825
Roller synthetic material***	 ◆	023672	023650	023650	227357
Roller stripper (2-pieces) for middle piece with roller synthetic material	 ◆	204214	204216	204216	-
Roller carbide	 ◆	220918	222038	222038	on request
Adjustment device 1 set = 3 pieces		200179	200179	200179	200179

\* When placing an order, please advise voltage.

\*\* On request 110 V available.

\*\*\* Attention: Reduced clamping force! Please refer to the clamping force value marked on the roller.