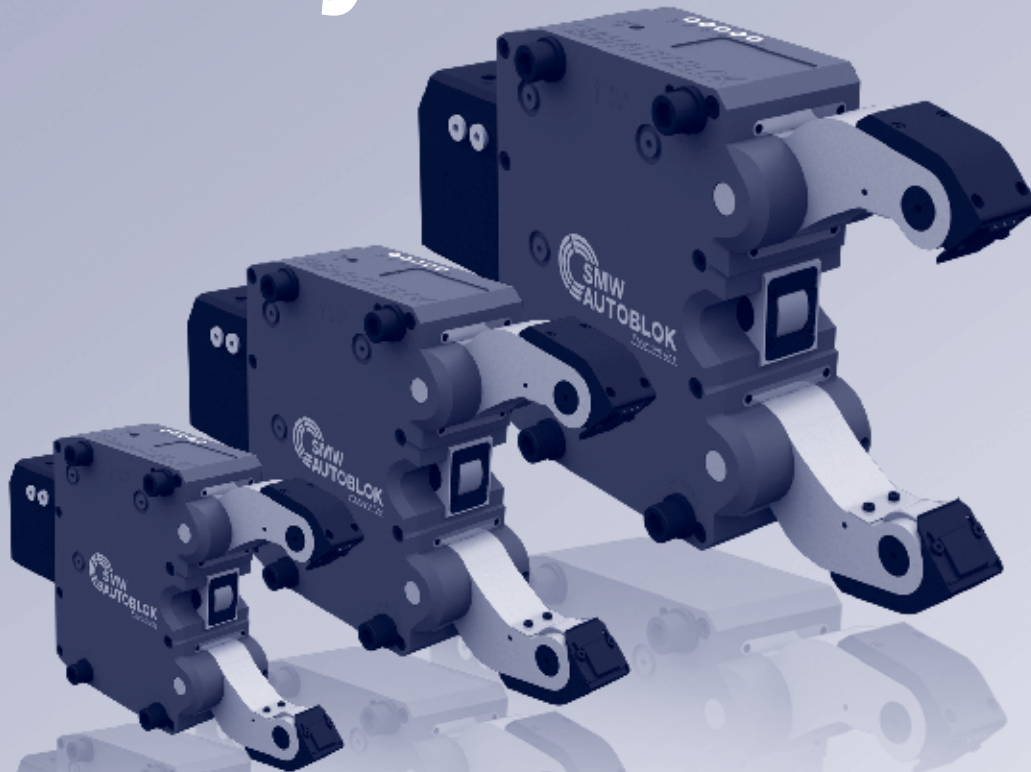


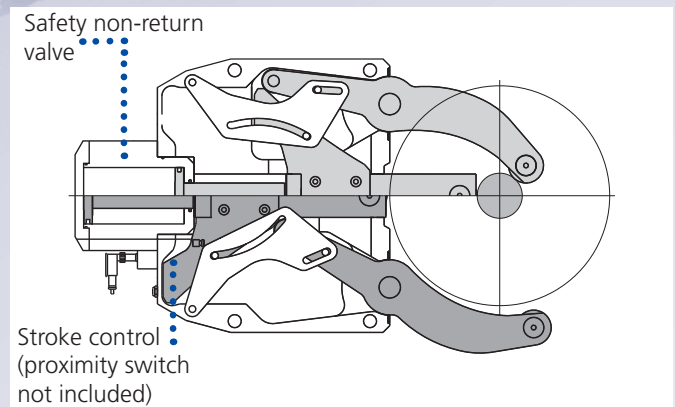
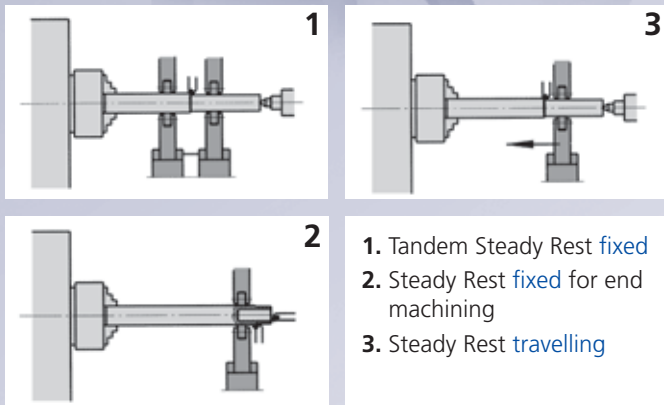
SMW-AUTOBLOK

worldwide leader

in Steady Rests



Fixed or travelling application

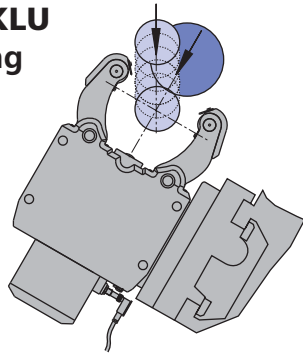


Features included in standard range

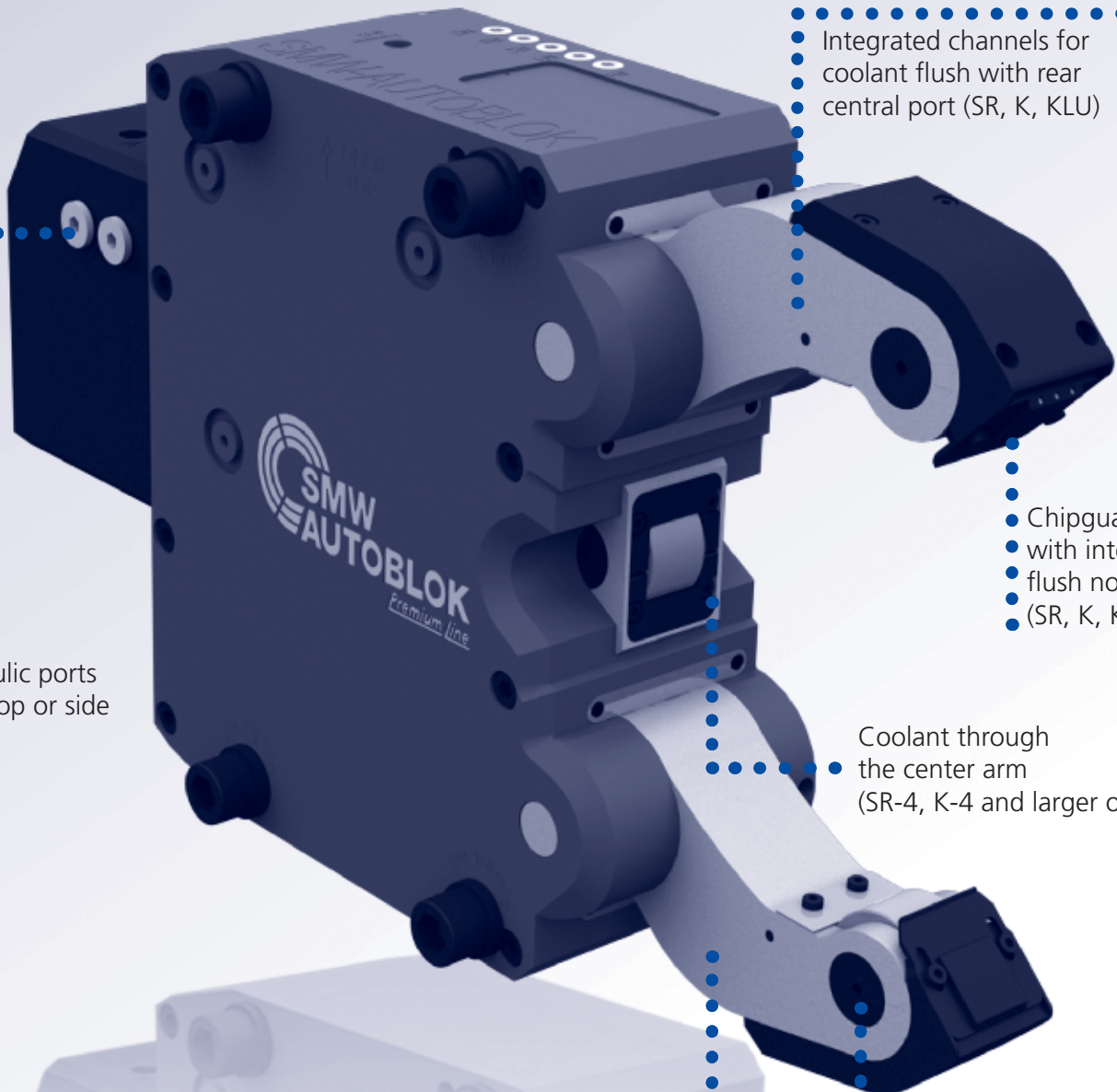
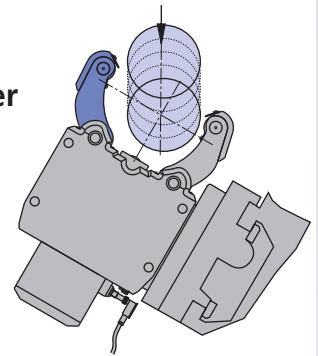
Steady Rest type	Standard Line		Premium Line			
	SLU-X, SLUA-X	SLU-B, SLUA-B	SR	SRA	K, KA	KLU
Steady Rest size	1 - 5.1	3 - 6	1 - 6	2 - 6	3 - 7.1	215 - 540
Sealed body	■		■	■	■	■
Safety valve	■	■	■	■	■	■
Stroke control (open position)	■	■	■	■	■	■
1 set swarf guard 3-piece	■	■				
1 set swarf guard with integrated coolant flush			■	■	■	■
1 set cylindrical rollers	■	■	■	■	■	■
Port for compressed air	■	■	■	■	■	■
Port for coolant through arms incl. chipguard			■	■	■	■

SLU-X® / SR® / K / KLU

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



SLUA-X/SRA
additional
pivoting upper
arm
for automatic
vertical loading
(worldwide
patented)



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

Hydraulic ports
from top or side

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

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

**Patented mechanism
for opening the arms of the
Steady Rest without
springs and free from wear.
(worldwide patented)**

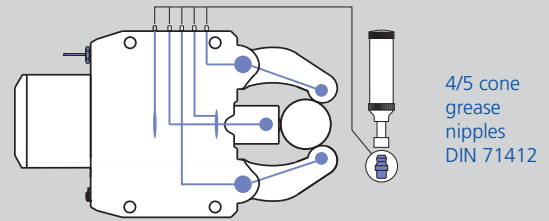
Arms and centerpiece
hardened
(SLU-X, SR, K, KLU)

Easy change of rollers
without loose parts

Option of manual lubrication (M)

- 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

Manual lubrication (M)



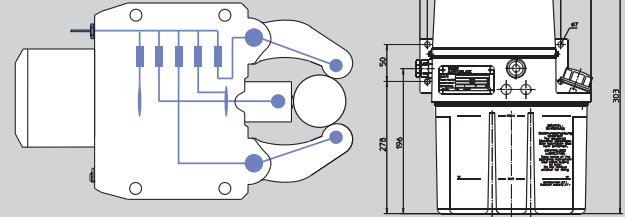
Option of central oil lubrication (Z)

- 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 to 45 bar.
- Oil: Viscosity of 46 mm²/s (viscosity class ISO)

Central lubrication (Z)

Lubrication unit oil
Id. No. 088707

Centralized lubrication G 1/8"



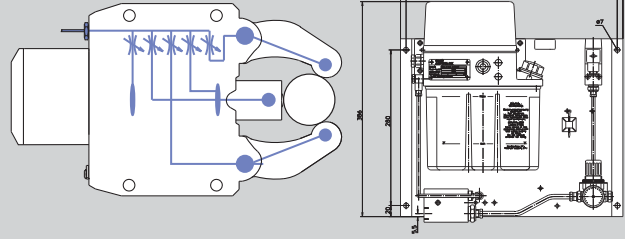
Option of central lubrication oil + air (OLD)

- 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 (2 -12 min.).
- The permanent air flow (min. 3 bar) feeds the oil to the rollers and keeps them clean.
- Oil: Viscosity of 46 mm²/s (viscosity class ISO)

Oil + air lubrication (OLD)

Lubrication unit oil + air
Id. No. 088708

Centralized lubrication G 1/8"

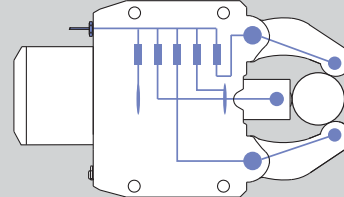


Option of central grease lubrication (F)

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

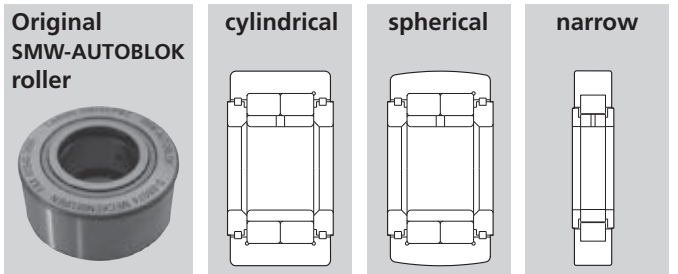
Central grease lubrication (F)

Centralized lubrication G 1/8"



Option of rollers

- 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.



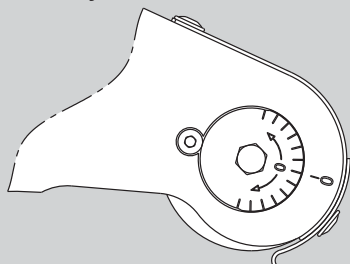
Rollers (all types)

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

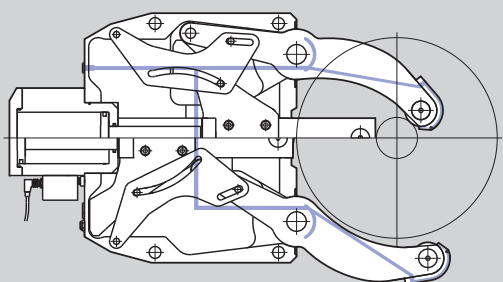
Available optional materials:

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

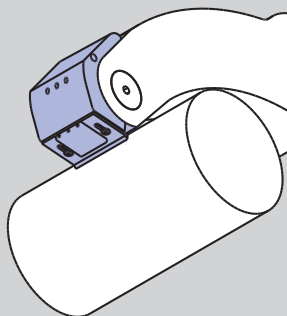


Eccentric fine adjustment**Option fine adjustment of center line**

- Eccentric roller pins on the two Steady Rest arms allow a quick fine adjustment of the center line.
- This avoids 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 only)**

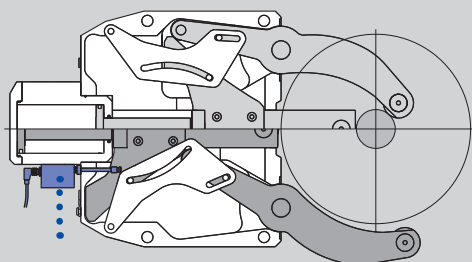
- Built-in channels to feed coolant or air from a central connecting port to the Steady Rest arms.
- Basic equipment for SR/K/KLU steady rests
- From size SR-4 / K4 and larger with coolant through the center arm

Chipguard coolant/air**Patented coolant/air chipguard with integrated flush nozzles (SR/K/KLU only)**

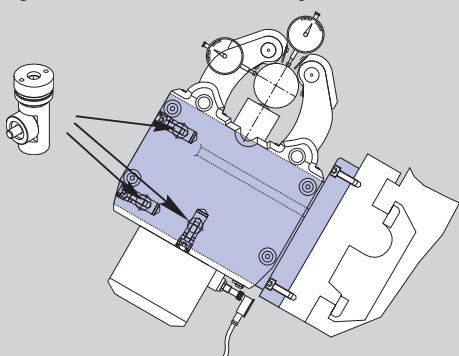
- Keeps roller clamping area free from chips
- The patented double flush nozzles keep front and rear of the wiper area clean.

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

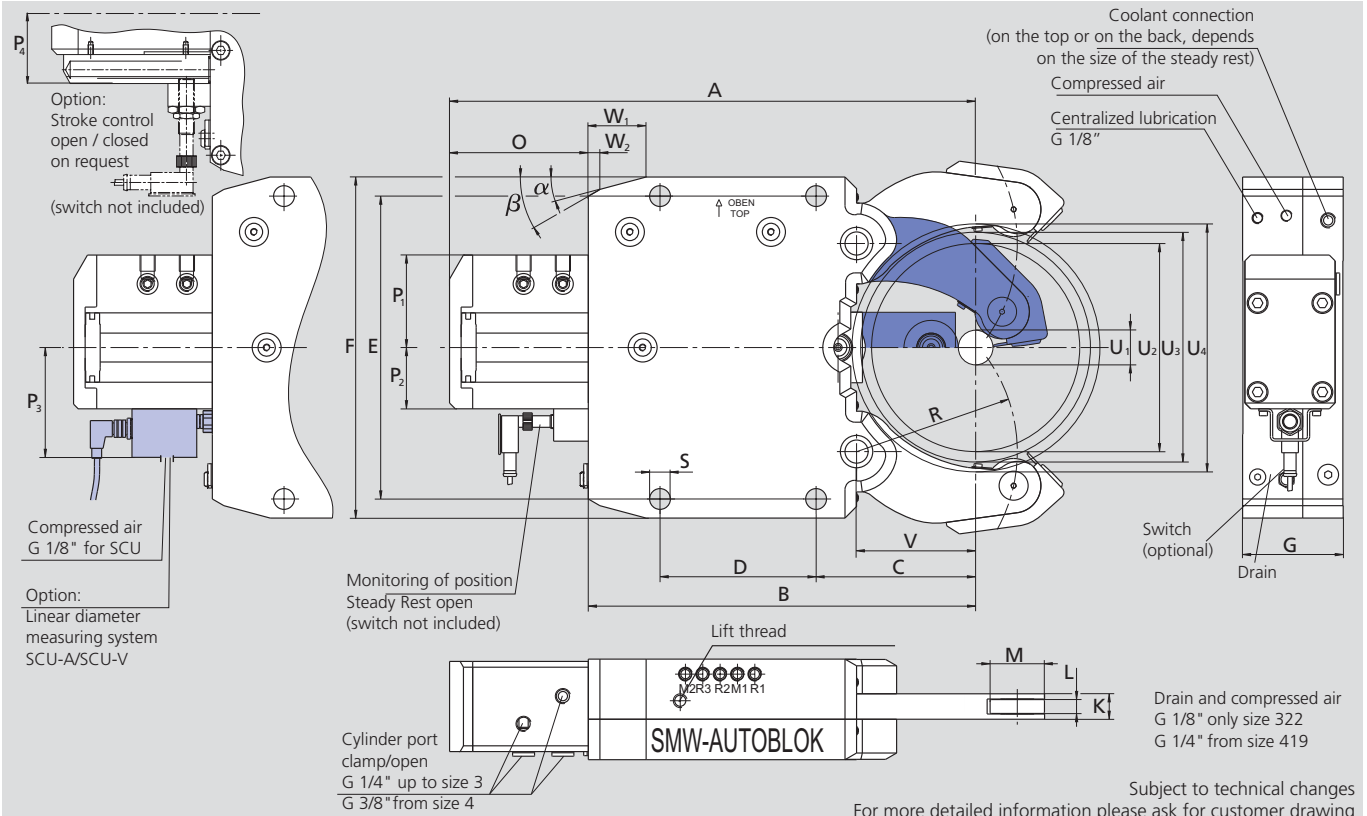
**SCU-A/SCU-V
diameter measuring system****SCU-A/SCU-V****Option linear diameter measuring system
SCU-A/SCU-V**

- The position of the clamping arms is monitored by the linear measuring system SCU-A/SCU-V.
- Avoids collision with workpieces, turret, loader etc.
- Reduced cycle time due to position controlled opening of the arms to the requested opening only.
- SCU-A: In: 24 V Out: 4 – 20 mA
- SCU-V: In: 24 V Out: 0 – 10 V

Steady Rest bracket with adjustment device**Steady Rest bracket**

- A perfect 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.

- Sealed body
- Integrated coolant flush
- Stroke control unit or proximity switches



SMW-AUTOBLOK Type Size		KLU 215	KLU 218	KLU 222	KLU 318	KLU 322	KLU 419	KLU 422	KLU 429	KLU 530	KLU 540
Centering range with coolant chip guard	U1	20 (12*)	20 (12*)	20 (12*)	30	30	30	30	30	70	70
	U2	101	101	101	180	180	245	245	245	293	293
	U3	106	106	106	189	189	253	253	253	330	330
	U4	116	116	116	215	215	282	282	282	370	370
	A	275	275	275	455	455	602	602	602	703	703
	B	195	195	195	335	335	448	448	448	530	530
	C	70	70	70	138	138	146	146	146	198	198
	D	85	85	85	135	135	240	240	240	270	270
	E	170	170	170	262	262	365	365	365	400	400
	F	195	195	195	295	295	405	405	405	440	440
	G	59	62	66	83	87	89	92	99	105	105
	K	15	18	22	18	22	19	22	29	30	40
Width of rollers	L	8	10	13	10	13	10	13	16	16	20
Diameter of rollers	M	35	35	35	47	47	52	52	52	62	62
	O	80	80	80	120	120	154	154	154	173	173
	P1	58	58	58	80	80	80	80	80	88	88
	P2	40	40	40	53	53	53	53	53	59	59
	P3	-	-	-	102	102	102	102	102	108	108
	P4	61	61	61	74	74	74	74	74	80	80
	R	74	74	74	139	139	172	172	172	229	229
	S	14	14	14	18	18	23	23	23	23	23
	V	51	51	51	103	103	124	124	124	176	176
	W1	30	30	30	50	50	58	58	58	62	62
	W2	11.2	11.2	11.2	10	10	18.3	18.3	18.3	19	19
	α	15°	15°	15°	15°	15°	15°	15°	15°	18°	18°
	β	30°	30°	30°	30°	30°	40°	40°	40°	40°	40°
Piston area	cm ²	12.5	12.5	12.5	28.3	28.3	28.3	28.3	28.3	50.2	50.2
Operation pressure min./max.	bar	8/50	8/65	8/80	8/60	8/75	8/70	8/80	8/80	8/70	8/80
Max. clamping force/roller	daN	210	270	335	565	700	660	750	750	1170	1340
Centering accuracy within the whole range	mm	0.03	0.03	0.03	0.05	0.05	0.06	0.06	0.06	0.07	0.07
Repeatability accuracy	mm	0.007	0.007	0.007	0.007	0.007	0.01	0.01	0.01	0.01	0.01
Max. roller surface speed	m/min	750	750	750	715	715	700	700	700	700	700
Weight approx.	kg	14	15	16	33	36	70	74	85	100	125

* The Steady Rest can be modified to this clamping range if the coolant chip guard is not used

- Ordering review
- Accessories and wearing parts

KLU Steady Rest with stroke control Steady Rest open via proximity switch (without proximity switch)***

Steady Rest size		215	218	222	318	322	419	422	429	530	540
KLU-Z central lubrication	Id. No.	128280	128282	128284	127528	127530	127534	127536	127538	127542	127544
KLU-OLD central lubrication oil + air	Id. No.	128281	128283	128285	127529	127531	127535	127537	127539	127543	127545
KLU-F central grease lubrication	Id. No.	on request	on request	on request	on request	on request	on request	on request	on request	on request	on request

KLU Steady Rest with stroke control via linear stroke control SCU-A, output 4–20 mA

Steady Rest size		215	218	222	318	322	419	422	429	530	540
KLU-Z central lubrication	Id. No.	-	-	-	125637	125655	125365	125398	125421	125988	126050
KLU-OLD central lubrication oil + air	Id. No.	-	-	-	125638	125656	125366	125399	125422	125989	126051
KLU-F central grease lubrication	Id. No.	-	-	-	on request	on request	on request	on request	on request	on request	on request










KLU Steady Rest with stroke control via linear stroke control SCU-V, output 0–10 V

Steady Rest size		215	218	222	318	322	419	422	429	530	540
KLU-Z central lubrication	Id. No.	-	-	-	125640	125657	125369	125400	125423	125992	126052
KLU-OLD central lubrication oil + air	Id. No.	-	-	-	125641	125658	125370	125401	125424	125993	126053
KLU-F central grease lubrication	Id. No.	-	-	-	on request	on request	on request	on request	on request	on request	on request

Accessories and wearing parts

Type KLU

◆ denotes wearing parts, recommended stock items

Steady Rest size		215	218	222	318	322	419	422	429	530	540
Compact lubrication system for oil pressure lubrication Container 2.7 l, 220 V *, **		088707	088707	088707	088707	088707	088707	088707	088707	088707	088707
Compact lubrication system for oil + air lubrication Container 2.7 l, 220 V *, **		088708	088708	088708	088708	088708	088708	088708	088708	088708	088708
Inductive limit switch		087926	087926	087926	087926	087926	087926	087926	087926	087926	087926
Swarf guard coolant/air with wiper		128270	128273	128276	125633	125652	125360	125394	125417	127036	126046
Wiper for swarf guard coolant/air	 ◆	128272	128275	128278	126905	126906	126907	126906	126908	126909	126910
Swarf guard 3-pcs.	 ◆	125906	126055	126058	-	-	-	-	-	-	-
Roller stripper for middle piece	 ◆	197995	197996	197997	197998	197999	198000	198001	198002	198003	198004
Rollers, cylindrical design	 ◆	122794	020062	020759	017861	002411	017676	084766	019541	125964	019612
Adjustment device 1 set = 3 pcs.		-	-	-	200178	200178	200179	200179	200179	200179	200179

* When placing an order, please advise voltage

** On request 110 V available

*** Stroke control open / closed on request

SLU-X®
SLU-B

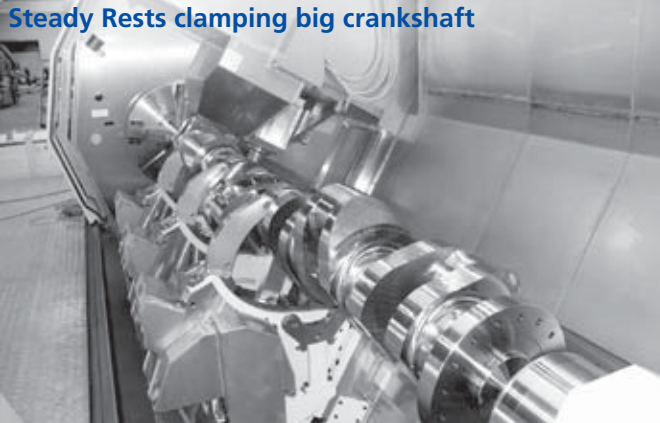
SLUA®-X
SLUA®-B

SR®
SRA

KLU
K

Our additional program:
■ Special Steady Rests
■ Turret Steady Rests
■ Crankshaft Steady Rests
■ Grinding Steady Rests

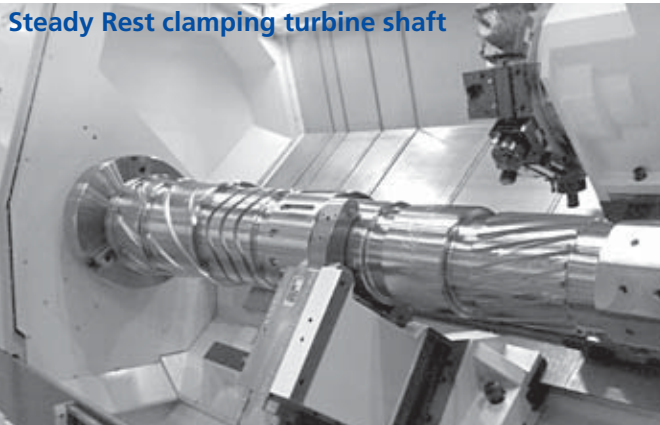
Steady Rests clamping big crankshaft



Steady Rests clamping big crankshaft



Steady Rest clamping turbine shaft



Steady Rest clamping special shaft



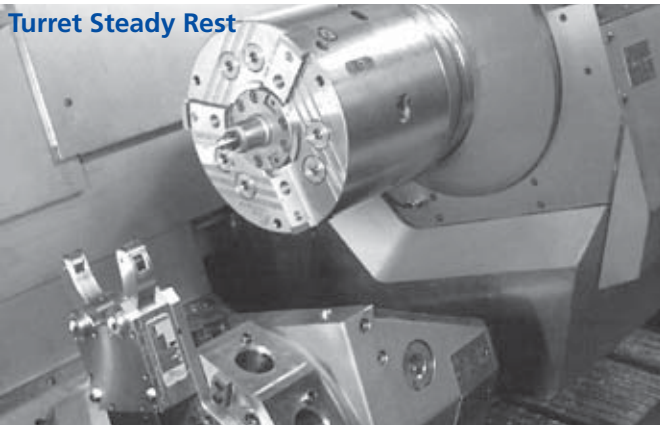
Steady Rest clamping train axle



Steady Rest with diamond pads clamping input shaft in hard turning/grinding operation



Turret Steady Rest



Steady Rest clamping aircraft shaft

