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- Designed for micro-positioning applications
- Stainless steel screw with hardened steel ball tip
- Brass threaded collar

SAFIBRA

- Very smooth motion allows positioning with sensitivity of 1 μ m
- Scale 10 μ m division
- Nominal travel 5, 10, 15, 20, 25, 30, 50 mm

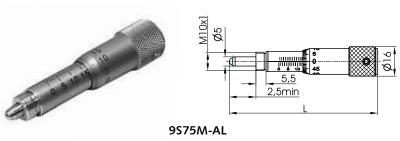
Micrometer screws 9S75M-AL, 9S75ML-AL have M6x0.5 internal driving screw thread. External mounting thread - M10x1. External M10x0.5 mounting thread is available on request.

Vernier scale is engraved on a revolving cylindrical collar of the micrometer screw. The collar can be rotated to make the scale visible if micrometer screw is mounted with the scale out of sight.

9S75M-AL, 9S75ML-AL are used in Standa translation stages and mirror mounts and can be used in mounts and stages of other manufacturers.

7T173-20T with 9S75M-20-AL installed

Micrometer screw thread	M6x0.5
Sensitivity	$1~\mu\mathrm{m}$
Scale division	$10~\mu\mathrm{m}$
Axial load capacity	80 N
Mounting thread	M10x1





9S75ML-AL



with 9S75M-50-AL installed



7T68-25XYZ with 9S75M-25-AL installed

Model	Nominal travel, mm	Maximum travel, mm	L, mm	Weight , kg
9S75M-5-AL, 9S75ML-5-AL	5	7	40	0.03
9S75M-10-AL, 9S75ML-10-AL	10	13	54	0.04
9S75M-15-AL, 9S75ML-15-AL	15	17	60	0.04
9S75M-20-AL, 9S75ML-20-AL	20	22	70	0.05
9S75M-25-AL, 9S75ML-25-AL	25	27	81	0.06
9S75M-30-AL, 9S75ML-30-AL	30	32	92	0.08
9S75M-50-AL, 9S75ML-50-AL	50	52	136	0.10

Micrometer Screws

9S55-A



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9S55-5-AL

9S55M-5-AL

- Designed for micro-positioning applications
- Stainless steel screw with hardened steel ball tip
- Brass threaded collar
- Very smooth motion allows positioning with sensitivity of 1 μm
- Scale 10 μ m division
- Nominal travel 5, 10 mm

There are two types of the Thin Micrometers - 9S55-AL and 9S55M-AL. They differ in their mounting method:

9S55-AL has a Ø8x7 mm mounting barrel.

9S55M-AL can be mounted by tightening a fixing nut included on a M8x1 thread.

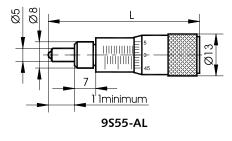
SPECIFICATIONS

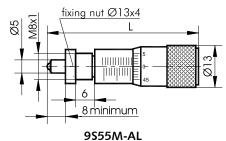
Micrometer screw thread	M6x0.5
Sensitivity	$1\mu\mathrm{m}$
Scale division	$10~\mu\mathrm{m}$
Axial load capacity	80 N
Way of mounting	

9S55-AL

9S55M-AL

Mounting barrel mounting sleeve with fixing nut

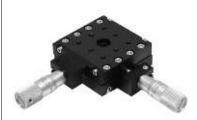




Nominal travel, mm	L, mm	Weight, kg	
5	46	0.02	
5	46	0.02	
10	58,5	0.03	
10	58,5	0.03	
	5 5 10	5 46 5 46 10 58,5	5 46 0.02 5 46 0.02 10 58,5 0.03



7T164-10T with 9S55-10-AL installed



7T264-10 with 9S55-10-AL installed



7T184-13XYZ with 9S55-10-AL installed





standa

Mini Micrometers



Designed for micro-positioning applications

 Stainless steel screw with hardened steel ball tip

- Brass threaded collar

- Very smooth motion allows positioning with sensitivity of 1 μm

- Scale 10 μ m division

- Maximum travel 6.35 mm (1/4")

There are two types of the Mini Micrometers – 9S35 and 9S35M. They differ in their mounting method:

9S35 has a \emptyset **6×6** mm mounting barrel.

9S35M series micrometer is designed to be mounted using the $M6 \times 0.5$ thread. Final position of the micrometer can be set by fastening the included fixing nut.

SPECIFICATIONS

SAFÎBRĄ

Micrometer screw	
thread	$M4 \times 0.5$
Sensitivity	$1 \mu \mathrm{m}$
Travel range	5 mm
Scale division	$10 \mu \mathrm{m}$
Axial load capacity	60 N
Weight	0.01 kg

36.7



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7T67-6-9S35M-5 7T67-6 with 9S35M-5 installed



7R128-9S35-57R128 with 9S35-5 installed

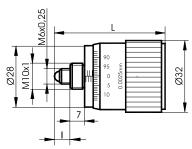
M6x0.5 fixing nut 4 max 36.7 **9**\$35-5 9S35M-5 Model Extra thread **Finish Body** and fixing nut material 9S35-5 stainless steel 9S35M-5 included stainless steel 9S35-5-BL black aluminium 9S35M-5-BL included black aluminium

7max

High-Resolution Micrometers

9SM127M





- Stainless steel screw with hardened steel ball tip
- Brass threaded collar
- Mounts on M10 holes
- Scale 2.5 μ m division
- Nominal travel 5, 10 mm

High-Resolution Micrometers 9SM127M provide increased reading accuracy by combining a large knob and a stainless steel screw with fine pitch of $0.25\ mm$.

External mounting thread - M10x1.

External M10x0.5 mounting thread is available on request.

Micrometer screw thread	M6x0.25
Sensitivity	$0.5\mu\mathrm{m}$
Scale division	$2.5~\mu\mathrm{m}$
Axial load capacity	50 N

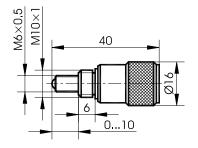
Model	Nominal travel, mm	L, mm	l, mm	Weight, kg
9SM127M-5	5	40	27	0.05
9SM127M-10	10	45	212	0.08



7TF2 with 9SM127M-5 installed

2 9-4





Fine Closed Screw 9S65M provides high 1 μm sensitivity and smooth movement. Its travel range is 10 mm. The screw is used in many STANDA mounts. The handle covers the thread over the complete travel range.

Special micrometer screw design for use in optical mounts for angular adjustment.

External mounting thread - M10x1.

External M10x0.5 mounting thread is available on request.

SPECIFICATIONS

Adjustment screw thread	M6x0.5
Sensitivity	$1\mu\mathrm{m}$
Axial load capacity	80 N
Nominal travel	10 mm
Weight	0.02 kg



50M60-3 with 9S65M installed



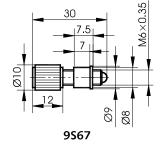
50M37-40 with 9S65M installed

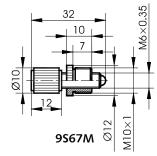
Compact Fine Screws



9567







9867

Compact Fine Screws 9S67 provide high resolution. A unique design allows smooth adjustment and high repeatability thanks to matched stainless steel screw/brass nut pairs. Using screw/nut matching technology, backlash is in high precision M6x0.35 thread almost eliminated. The combination of metals provides a superior match for both movement and long lifetime.

9S67 has a mounting diameter of \emptyset 8 mm. The **9S67M** has a mounting thread M10x1, or M10x0.5 as option.

A compact knob is made from black anodized aluminium.

Adjustment screw thread	M6x0.35
Sensitivity	$1.3~\mu\mathrm{m}$
Axial load capacity	70 N
Nominal travel	8 mm

Model	Weight , kg
9S67	0.015
9S67M	0.015



50M111 with 9S67 installed



50M60-3-9S67M with 9S67M installed

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2 hex key hole L3 L2

When you need to make accurate adjustment in your equipment, order 9SH67 industrial adjustment screws along with 9MT6-0.35 taps (see page 9-12) to make matched screw and nut pairs and enjoy

SPECIFICATIONS

Adjustment screw thread	M6x0.35
Sensitivity	$1~\mu\mathrm{m}$
Axial load capacity	70 N

the ultimate performance.

9SH67 industrial adjustment screws do not include nuts. Nuts with perfect thread and minimal backlash for the screws can be made with our 9MT6-0.35 taps (see page 9-12) which use the widely appreciated Standa adjustment screw technology.

Model	L1, mm	L2, mm	L3, mm	Weight, kg
Model	L1, 111111	L2, 111111	L 3, 111111	weight, kg
9SH67-10	8	12	9.8	0.002
9SH67-18	16	20	17.8	0.004
9SH67-23	21	25	22.8	0.006
9SH67.01-7.3	5.5	9.5	7.3	0.001
9SH67-XX		custom size		



9MT6-0.35 **Industrial Custom Taps** Page 9-12

Low Cost Adjustment Screws



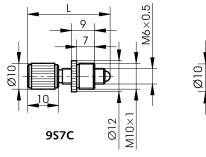
Low Cost Adjustment Screws 9S7 and 9S7C are popular for their low cost and miniature size, in applications where rough resolution about $5 \mu m$ is enough.

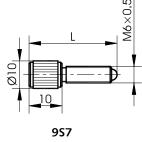
9S7C consists of M6x0.5 screw and nut with M10x1 mounting thread (M10x0.5 as option).

9S7C and 9S7 series screws suite well for optical mount and can be chosen as an option in mounts 50M37, 50M60, 6LH and others.

SPECIFICATIONS

Adjustment screw thread	M6x0.5
Sensitivity	$1.5~\mu\mathrm{m}$
Axial load capacity	80 N





Model	Nominal travel, mm	L, mm	Weight, kg
9S7-8	8	29	0.015
9S7C-8	8	29	0.02
9S7-18	18	39	0.025
9S7C-18	18	39	0.03

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50M37-40-9S7C 50M37-40 with 9S7C-8 installed



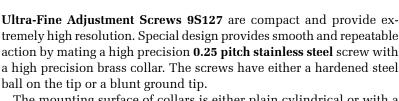
with 9S7-18 installed

Ultra-Fine Adjustment Screws

9\$127



- Stainless steel screw with pitch of 0.25 mm
- Precision brass collars of 3 types
- Tolerances better than tightest industry standards



The mounting surface of collars is either plain cylindrical or with a thread. The collars are ideally suitable for all mechanical stages and elements from STANDA or other companies.

The handy dimensions of the knobs are optimally chosen to feel rotation as little as $0.5^{\circ}-1^{\circ}$. This enables to achieve $0.5 \mu m$ positioning sensitivity. The knobs are made of hard aluminium and come in various colours: black, white, red, green, yellow, blue, etc. By default the knobs are in black or white colour, 5 mm high (dimension "K").

Weight 0.01 to 0.02 kg

SPECIFICATIONS

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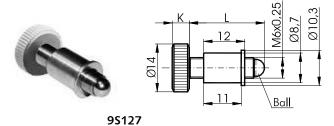
Adjustment screw thread	M6x0.25
Sensitivity	$0.5~\mu\mathrm{m}$
Axial load capacity	50 N
Weight	0.01 to 0.02 kg



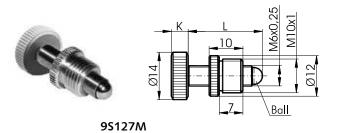
5MBM21-1 with 9S127-10 installed



6TS62-9S127M 6TS62 with 9S127M-10 installed

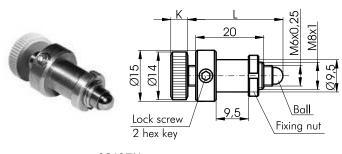


Model	Travel, mm	L, mm	Tip
9S127-7	7	22	ball tip
9S127-10	10	25	ball tip
9S127-25	25	40	ball tip



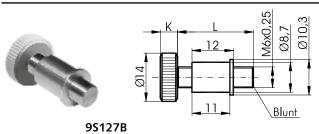
Model	Travel, mm	L, mm	Tip
9S127M-7	7	20	ball tip
9S127M-10	10	23	ball tip
9S127M-25	25	38	ball tip

The 9S127M has a mounting thread M10x1, but you may specify an alternative pitch of M10x0.5.

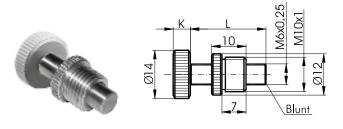


Model	Travel, mm	L, mm	Tip
9S127N-5	5	28	ball tip
9S127N-10	10	33	ball tip
9S127N-25	25	48	ball tip

9S127N



Model	Travel, mm	L, mm	Tip
9S127B-7	7	19	blunt tip
9S127B-10	10	22	blunt tip
9S127B-25	25	37	blunt tip



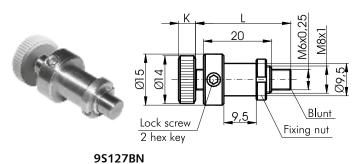
Model	Travel, mm	L, mm	Tip
9S127BM-7	7 7	19	blunt tip
9S127BM-1	10 10	22	blunt tip
9S127BM-2	25 25	37	blunt tip

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The **9S127BM** has a mounting thread **M10x1**, but you may specify an alternative pitch of **M10x0.5**.



Model	Travel, mm	L, mm	Tip
9S127BN-5	5	25	blunt tip
9S127BN-10	10	30	blunt tip
9S127BN-25	25	45	blunt tip

ORDERING INFORMATION

9S127BM

Knobs come in 5 mm (standard), 10 mm or 15 mm length. When ordering, please append the standard screw code with the desired value for the length of the knob.

For example:

9S127-7nominal travel 7 mm, ball tip, standard 5 mm lenght knob.9S127BM-7-K10nominal travel 7 mm, blunt tip, 10 mm lenght knob.9S127BN-25-K15nominal travel 25 mm, blunt tip, 15 mm lenght knob.

For screws with hex hole for Allen key (instead of the knob) see item 9SH127 (page 9-8).



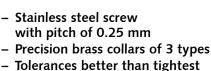


G Base Positioners



12

9-8



industry standards



Ultra-Fine Hex Adjustment Screws 9SH127 are extremely compact and precise. A screw is of a 0.25 pitch stainless steel screw and a brass collar. One end of the screw has a hexagonal hole for adjustments using a spanner or a Removable Knob 9RK127 (optional). Another end of the screw is either fitted with the hardened steel ball, or made blunt. Brass collars, for plain cylindrical and threaded mounting, can be of 3 types.

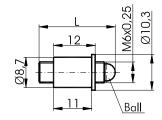
5F21-2-SH 5F21-2 with 9SH127-10 installed

SPECIFICATIONS

M6x0.25
$0.5~\mu\mathrm{m}$
50 N
3
0.01 to 0.02 kg



9SH127



Model	Travel, mm	L, mm	Tip
9SH127-7	7	22	ball tip
9SH127-10	10	25	ball tip
9SH127-25	25	40	ball tip

Travel, mm L, mm

20

23

38

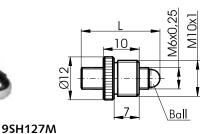
Tip

ball tip

ball tip

ball tip





The 9S127M but you may

Model

9SH127M-7

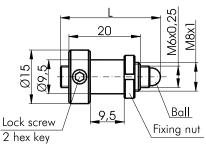
9SH127M-10

Fhe 9S127M has a mounting thread M10x1, out you may specify an alternative pitch of M10x0.5.

10

25

e		

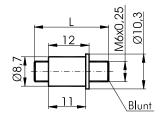


Model	Travel, mm	L, mm	Tip
9SH127N-5	5	28	ball tip
9SH127N-10	0 10	33	ball tip
9SH127N-25	5 25	48	ball tip





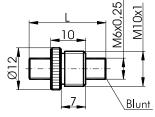




Model	Travel, mm	L, mm	Tip
9SH127B-7	7	19	blunt tip
9SH127B-10	10	22	blunt tip
9SH127B-25	25	37	blunt tip

9SH127B





Model Travel, mm L, mm Tip 9SH127BM-7 7 19 blunt tip 9SH127BM-10 10 22 blunt tip 9SH127BM-25 25 37 blunt tip

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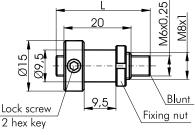
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The 9S127BM has a mounting thread M10x1, but you may specify an alternative pitch of M10x0.5.

9SH127BM





Model	Tr	avel, mm	L, mm	Tip
9SH127BN	I- 5	5	25	blunt tip
9SH127BN	J-10	10	30	blunt tip
9SH127BN	J-25	25	45	blunt tip

9SH127BN

ORDERING INFORMATION

For example:

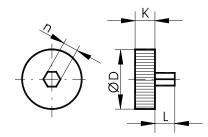
9SH127-7 9SH127BM-7 9SH127BN-25

nominal travel 7 mm, ball tip. nominal travel 7 mm, blunt tip. nominal travel 25 mm, blunt tip.

Removable Knob

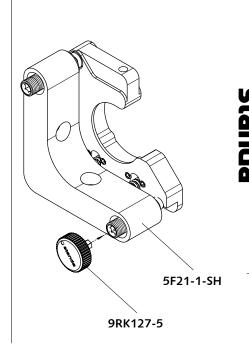






A hard anodized aluminium knob with optimal dimensions can be easily removed after the screw is adjusted. This will help you prevent inadvertent touching and will save space. Standard knobs come in 5mm thickness and are of white colour (dimension K).

Model	D , mm	K, mm	L, mm	n
9RK127-5	Ø14	5	5	hex 3
9RK127-10	\varnothing 14	10	5	hex 3
9RK137-5	$\varnothing 8$	5	3.5	hex 1.5
9RK137-10	$\varnothing 8$	10	3.5	hex 1.5
9RK147-5	$\varnothing 8$	5	3.5	hex 2
9RK147-10	$\varnothing 8$	10	3.5	hex 2



9RK

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Base Positioners

fixing nut

standa

9-10



9SH137 • 9SH147



- Small (M3 or M4) adjustment screws
- Screw of stainless steel
- Brass nut with outer M6 mounting thread
- Hex key drive
- Screw thread pitch 0.25 mm
- Travel 5 mm
- Lockable models available
- Other travel by request

Fixing nuts **3N6X05** (for 9SH137 series) and **3N8X1** (for 9SH147 series) are available for screws with threaded. It will allow to fix the screw at any depth in walls too thin for the 6mm collar thread. It will fix the screw so that it is in desired position.

When you order our units with these screws, we will make sure to include the fixing nut, in case the unit's wall is thin. In other cases you may order the nut separately.

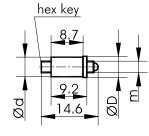


7T67-6-9SH137ML 7T67-6- with 9SH137ML installed

7T67-6-9SH137MN 7T67-6- with 9SH137MN installed

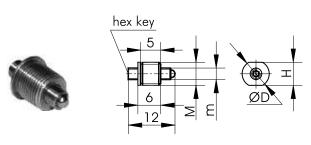
Adjustment Screw Thread	
9SH137	M3x0.25
9SH147	M4x0.25
Sensitivity	$0.5~\mu\mathrm{m}$
Load Capacity	40 N
Weight	0.01 kg





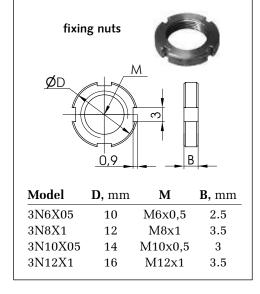
Model	\mathbf{d} mm	D , mm	m, mm	hex key
9SH137	5.1	5.5	M3x0.25	1.5
9SH147	6	7	M4x0.25	2

9SH137, 9SH147

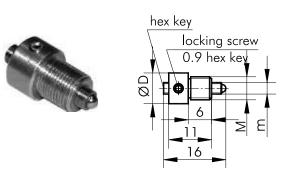


9SH137M, 9SH147M

Model	D , mm	m, mm	M, mm	Н	hex key
9SH137M	7	M3x0.25	M6x0,5	6	1.5
9SH147M	9	M4x0.25	M8x1	8	2



Safībra



Model	D , mm	m, mm	M, mm	hex key
9SH137MN	8	M3x0.25	M6x0,5	1.5
9SH147MN	10	M4x0.25	M8x1	2

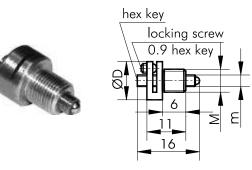
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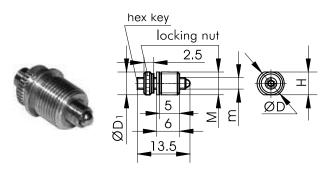
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9SH137MN, 9SH147MN



Model	D , mm	m, mm	M, mm	hex key
9SH137ML	9	M3x0.25	M6x0,5	1.5
9SH147ML	11	M4x0.25	M8x1	2

9SH137ML, 9SH147ML



9SH137MF, 9SH147MF

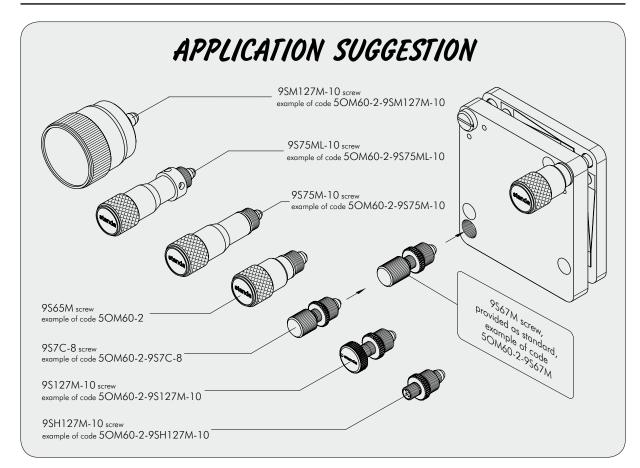
Model	D , mm	$\mathbf{D_1}$, mm	m, mm	M, mm	H	hex key
9SH137MF	7	6	M3x0.25	M6x0,5	6	1.5
9SH147MF	9	8	M4x0.25	M8x1	8	2

All micrometer and fine screws are produced using a matched screw/nut pair technology developed by Standa.

This technology uses thread polishing (without using cutter)
to create very high quality threads
which have minimal clearances that provide
the highest degree of smoothness during adjustment.







Industrial Custom Taps

9SH67 **Industrial Adjustment Screws**

9MT

9TW



9MT6-0.35 taps are used for making custom holes in hardened aluminum. The taps should be ordered together with 9SH67 series industrial adjustment screws.

SPECIFICATIONS

Thread Tap drill size

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 $M6 \times 0.35$ 5.62 mm



Use 9TW tap wrench with taps 9MT to conveniently make custom threaded holes.

> 9TW Tap Wrench with 9MT6-0.35 Industrial Custom Tap installed

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