

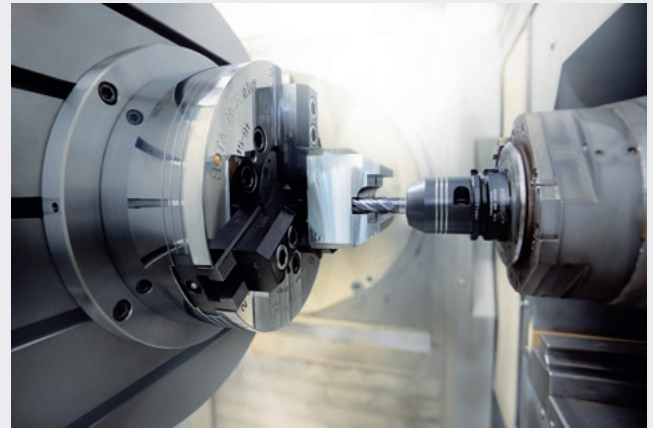


ROTA NCK-S plus

**Hydraulic power lathe chucks
for stationary applications**

Hydraulically actuated power lathe chucks with integrated hydraulic cylinder and a large control range

ROTA NCK-S plus stands for precise clamping of round workpieces on stationary machine tools with hydraulic actuation. The power lathe chucks can be adapted quickly and easily to any machine table by using a console plate. The special feature is the integrated hydraulic cylinder, which allows the chucks to be built very low and thus enables maximum utilization of the machine room. High clamping forces, a one-piece chuck body, long jaw guidances and a long and precise piston guide make the ROTA NCK-S plus the ideal clamping device for everyday use. The chucks also scores for their excellent price-performance ratio.



Advantages – Your benefits

- + Precision wedge-hook power lathe chuck for highest quality requirements**
Allows excellent machining results
- + Excellent price-performance ratio**
Optimal use of the lathe chuck
- + High efficiency of the wedge hook system**
Process-reliable clamping due to high clamping forces
- + Optimized lubrication system**
Consistently high clamping forces ensured
- + Integrated hydraulic cylinders**
Delicate clamping due to large control range
- + Base jaws with fine serration 1.5 mm x 60° and 1/16" x 90° as standard**
High flexibility in the range of top jaws
- + Low height design**
Maximum use of the machine room and maximum rigidity of the system
- + All sides of the functional parts are hardened and ground**
Ensures a long service life

Technical data

Description	Max. clamping force [kN]	Actuation pressure [bar]	Stroke/jaw [mm]
ROTA NCK-S plus 165	57	195	2.75
ROTA NCK-S plus 210	84	195	3.7
ROTA NCK-S plus 250	111	120	4.4
ROTA NCK-S plus 315	144	120	5.3

Function ROTA NCK-S plus

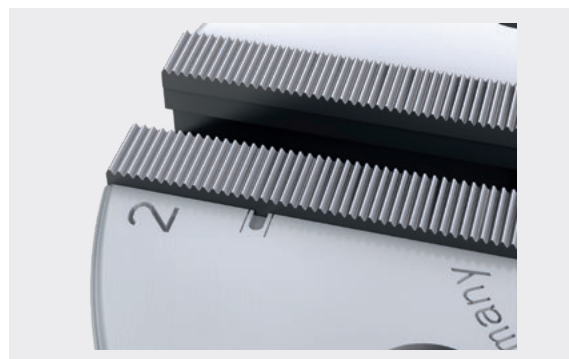
The piston that is positively guided into the power lathe chuck is shifted axially by supplying in hydraulic oil. The wedge hook system converts this axial movement of the chuck piston into a radial movement of the base jaws. Due to the use of a double-acting cylinder means that the workpieces can be clamped externally and internally.



- | | |
|--|--|
| <ul style="list-style-type: none"> ❶ Wedge hook drive
Offers constantly high clamping forces in operation ❷ Hardened and extremely rigid base body
Therefore a longer service life at highest precision. Even with maximum clamping force ❸ Long jaw guidance
Offers optimal support for O.D.- and I.D. clamping ❹ Optimized lubrication system
For a high level of efficiency ❺ Mounting thread
For workpiece stops or cover plates | <ul style="list-style-type: none"> ❻ Base jaw serration
Available in inch or metric sizes ❼ Jaw stroke display
To verify the jaw stroke ❽ Low height design
Expands your machine's workspace ❾ Integrated hydraulic cylinders
No additional backside cylinder is necessary ❿ Hydraulic system
Actuation with up to 195 bar |
|--|--|

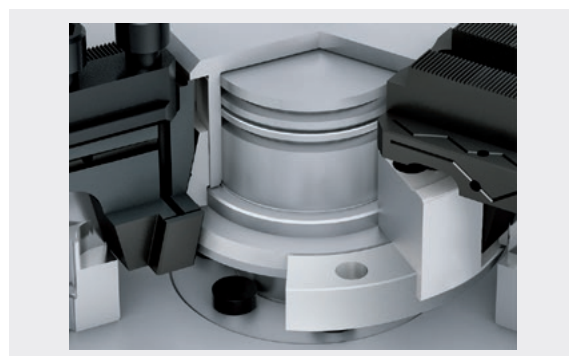
Jaw stroke display

The jaw stroke display is an additional safety feature, which ensures safe workpiece clamping and simplifies the use of the chuck in daily operation.



Long and precise piston guidance

For high clamping repeatability and long service life. All functional components used for force transmission are hardened and ground.



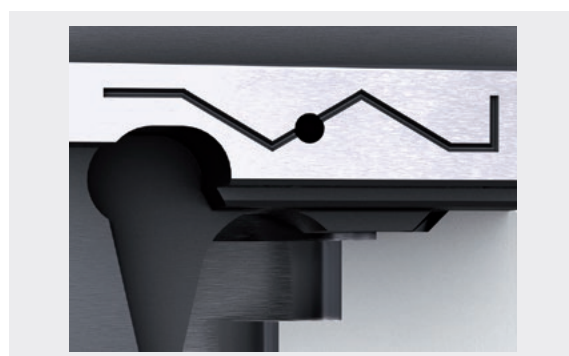
Absolute flexibility of the base jaw

Select between two standard jaw interfaces 1/16" x 90° or 1.5 mm x 60° with the benefit of being able to continue using your existing top jaws on the new SCHUNK lathe chuck.



Base jaw safety feature

The small nose at the base jaw remains on the chuck body. This prevents the ejection of the jaws in case of a crash.



Stationary 3-jaw chuck, hydraulically actuated

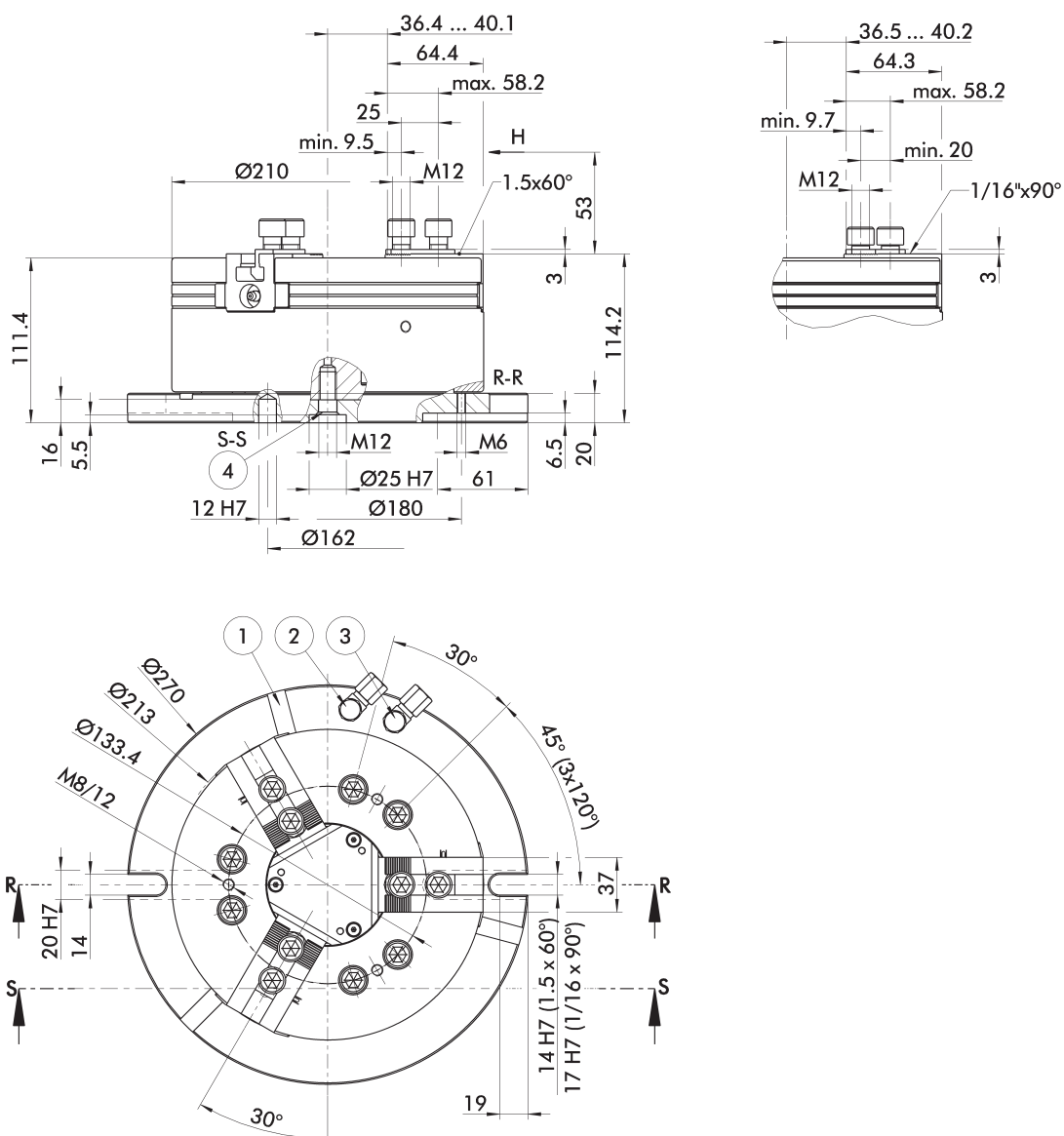
With base plate "K"

Scope of delivery

Power lathe chuck, T-nuts, operating manual; without top jaws, without mounting screws

Technical data

Description	ID	Mounting	Max. clamping force [kN]	Actuation pressure [bar]	Stroke per jaw [mm]	Weight [kg]
ROTA NCK-S plus 210 K-SV90°	0450205	Consol plate	84	195	3.7	31.2
ROTA NCK-S plus 210 K-SV60°	0450201	Consol plate	84	195	3.7	31.2

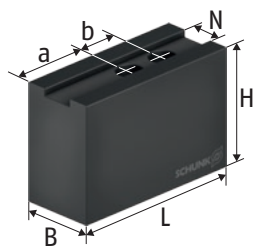


Subject to technical changes.

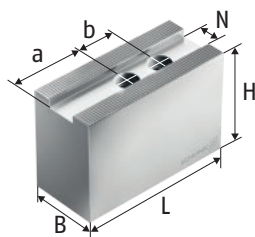
- ① Water drainage grooves
- ② Connection for opening the chuck
- ③ Connection for closing the chuck
- ④ Can be modified to suit the VERO-S interface

Soft top jaws

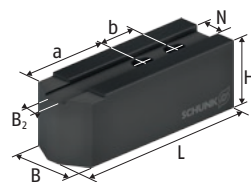
with fine serration 60°



KM-WB
Soft top jaws



KM-WBAL
Soft top jaws



KM-WBL
Soft top jaws

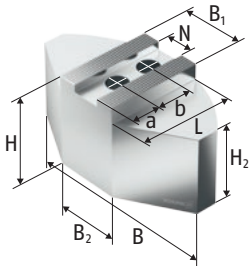
Technical data

Chuck type	Description	ID	N [mm]	B [mm]	H [mm]	L [mm]	a [mm]	b [mm]	Screws	m/SET [kg]
ROTA NCK-S plus 210	KM-WBL 80	0132601	14	35	40	102	57	25	M12	2.7
ROTA NCK-S plus 210	KM-WBL 81	0132607	14	40	80	102	57	25	M12	6.0
ROTA NCK-S plus 210	KM-WBL 82	0132615	14	40	100	102	57	25	M12	7.6
ROTA NCK-S plus 210	KM-WB 84	0132126	14	35	60	95	46	25	M12	3.9
ROTA NCK-S plus 210	KM-WB 85	0132127	14	40	80	95	46	25	M12	6.1
ROTA NCK-S plus 210	KM-WB 88	0132139	14	35	40	95	46	25	M12	2.7
ROTA NCK-S plus 210	KM-WBAL 80	0132522	14	40	60	90	45	25	M12	1.5

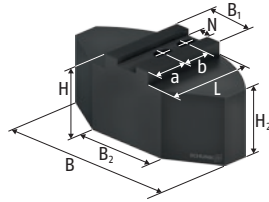
Our complete range of chuck jaws can be found online in our Chuck Jaw Quickfinder and on schunk.com

Hard stepped top jaws, Full grip jaws

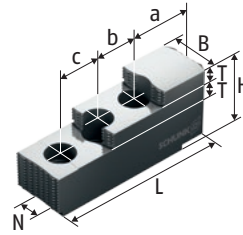
with fine serration 60°



KMWB-SA
Full grip jaws



KMWB-SM
Full grip jaws



SHB-J
Hard stepped top jaws

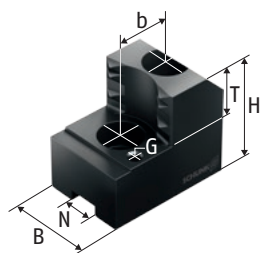
Technical data

Chuck type	Description	ID	N [mm]	B [mm]	B1 [mm]	H [mm]	H2 [mm]	L [mm]	T [mm]	a [mm]	b [mm]	c [mm]	Screws	m/SET [kg]
ROTA NCK-S plus 210	KMWB-SA 210	0132801	14	140	35	58	48	72.5		35	25		M12	3.1
ROTA NCK-S plus 210	KMWB-SA 211	0132805	14	140	35	80	70	72.5		35	25		M12	4.5
ROTA NCK-S plus 210	KMWB-SM 210	0132701	14	140	35	60	50	70		30	25		M12	8.8
ROTA NCK-S plus 210	KMWB-SM 211	0132705	14	140	35	80	70	70		30	25		M12	12.3
ROTA NCK-S plus 210	SHB-J 80	0133109	14	35		51		87	12	15.5	25	25	M12	1.8

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Claw jaws

with fine serration 60°



SZAJ
Claw jaws

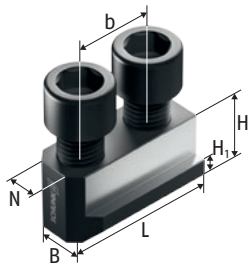
Technical data

Chuck type	Clamping range ØD	Swing diameter SDmax	Description	ID	N	B	H	L	T	G	b	Screws	m/SET
	[mm]	[mm]			[mm]	[mm]	[mm]	[mm]	[mm]		[mm]		[kg]
ROTA NCK-S plus 210	32 – 74	221	SZAJ 20-1	0138110	14	35	53	83	25	M6	25	M12	1.9
ROTA NCK-S plus 210	56 – 102	221	SZAJ 20-2	0138112	14	35	53	72.5	25	M6	25	M12	1.6
ROTA NCK-S plus 210	86 – 132	221	SZAJ 20-3	0138114	14	40	53	64.5	25	M6	25	M12	1.7
ROTA NCK-S plus 210	116 – 163	221	SZAJ 20-4	0138116	14	40	53	60	25	M6	25	M12	1.6
ROTA NCK-S plus 210	138 – 184	241	SZAJ 20-16	0138143	14	40	53	69	25	M6	25	M12	1.9

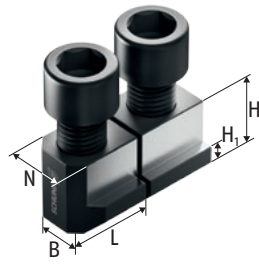
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T-nut

with fine serration 60°



NJ
T-nut



NJ sawn
T-nut

Chuck type	Description	ID	N	B	H	H1	L	b	Cyl.-screw	Max. adm. tightening torque
			[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		[Nm]
ROTA NCK-S plus 210	NJ 82 gesägt/sawn	0146005	14	20.3	20.5	8.5	20.5		M12 x 30	70
ROTA NCK-S plus 210	NJ 82	0146131	14	20.3	20.5	8.5	46.2	25	M12 x 30	70

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Hard stepped top jaws

with fine serration 60°



Jaw position I

Jaw position II

O.D. clamping

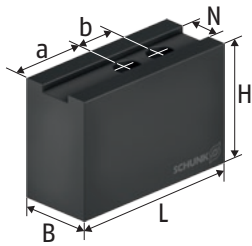
Chuck type	Description	ID	A1 [mm]	A2 [mm]	A3 [mm]	A4 [mm]
ROTA NCK-S plus 210	SHB-J 80	0133109	14 - 98	24 - 90	86 - 140	136 - 210

I.D. clamping

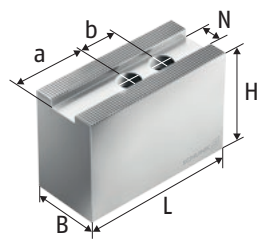
Chuck type	Description	ID	I1 [mm]	I2 [mm]	I3 [mm]
ROTA NCK-S plus 210	SHB-J 80	0133109	76 - 130	126 - 190	186 - 265

Soft top jaws

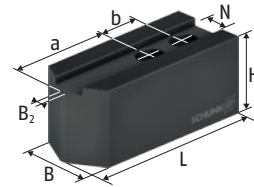
with fine serration 90°



CWB
Soft top jaws



SWB-AL
Soft top jaws



SWBL
Soft top jaws

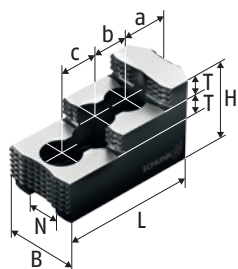
Technical data

Chuck type	Description	ID	N [mm]	B [mm]	H [mm]	L [mm]	a [mm]	b [mm]	Screws	m/SET [kg]
ROTA NCK-S plus 210	SWBL 200	0120153	17	35	40	98	61	22	M12	2.6
ROTA NCK-S plus 210	CWB 200	0100006	17	40	40	90	43	22	M12	2.7
ROTA NCK-S plus 210	SWB 200	0120104	17	40	60	90	43	22	M12	4.1
ROTA NCK-S plus 210	SWB-AL 200	0168101	17	40	60	90	43	22	M12	1.5

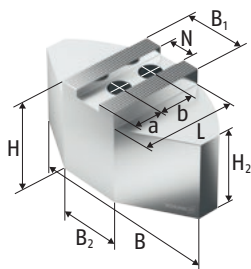
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Hard stepped top jaws, Full grip jaws

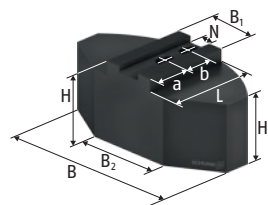
with fine serration 90°



SHB
Hard stepped top jaws



SWB-SA
Full grip jaws



SWB-SM
Full grip jaws

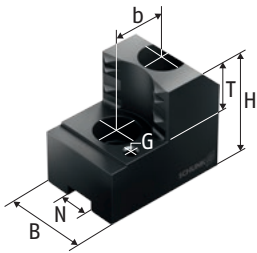
Technical data

Chuck type	Description	ID	N [mm]	B [mm]	B1 [mm]	H [mm]	H2 [mm]	L [mm]	T [mm]	a [mm]	b [mm]	c [mm]	Screws	m/SET [kg]
ROTA NCK-S plus 210	SWB-SA 200	0170101	17	140	40	58	48	72.5		35	22		M12	3.1
ROTA NCK-S plus 210	SWB-SA 201	0170106	17	140	40	75	65	72.5		35	22		M12	4.2
ROTA NCK-S plus 210	SWB-SM 200	0169101	17	140	40	60	50	69.5		35	22		M12	8.6
ROTA NCK-S plus 210	SWB-SM 201	0169106	17	140	40	75	65	69.5		35	22		M12	11.5
ROTA NCK-S plus 210	SHB 210	0121102	17	40		49		84.3	12	28.7	19	19	M12	2.0

Our complete range of chuck jaws can be found online in our Chuck Jaw Quickfinder and on schunk.com

Claw jaws

with fine serration 90°



SZA
Claw jaws

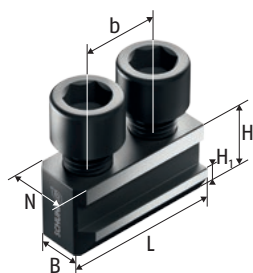
Technical data

Chuck type	Clamping range ØD	Swing diameter SDmax	Description	ID	N	B	H	L	T	G	b	Screws	m/SET
	[mm]	[mm]			[mm]	[mm]	[mm]	[mm]	[mm]		[mm]		[kg]
ROTA NCK-S plus 210	33 – 72	221	SZA 20-14	0138195	17	35	50	85	25	M6	22	M12	1.8
ROTA NCK-S plus 210	49 – 100	221	SZA 20-15	0138196	17	35	50	72.9	25	M6	22	M12	1.5
ROTA NCK-S plus 210	78 – 129	221	SZA 20-16	0138197	17	40	50	65.1	25	M6	22	M12	1.5
ROTA NCK-S plus 210	105 – 157	223	SZA 20-17	0138198	17	40	50	66.7	25	M6	22	M12	1.6
ROTA NCK-S plus 210	135 – 187	247	SZA 20-18	0138199	17	40	50	71.4	25	M6	22	M12	1.8

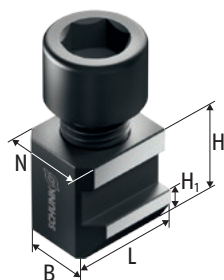
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T-nut

with fine serration 90°



NKA
T-nut



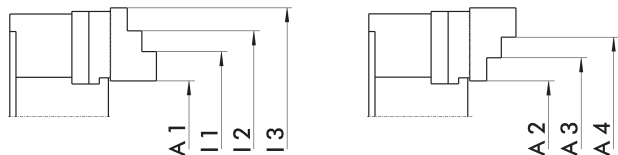
NKS
T-nut

Chuck type	Description	ID	N	B	H	H1	L	b	Cyl.-screw	Max. adm. tightening torque
			[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		[Nm]
ROTA NCK-S plus 210	NKA 2	0145104	17	19	20.5	7.5	42	22	M12 x 25	70
ROTA NCK-S plus 210	NKS 2	0143106	17	19	20.5	7.5	19		M12 x 25	70

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Hard stepped top jaws

with fine serration 90°



Jaw position I

Jaw position II

O.D. clamping

Chuck type	Description	ID	A1 [mm]	A2 [mm]	A3 [mm]	A4 [mm]
ROTA NCK-S plus 210	SHB 210	0121102	9 - 102	27 - 81	77 - 127	123 - 204

I.D. clamping

Chuck type	Description	ID	I1 [mm]	I2 [mm]	I3 [mm]
ROTA NCK-S plus 210	SHB 210	0121102	82 - 132	128 - 180	176 - 265

Accessories

Clamping force tester

For measuring the jaw clamping force of 2, 3 and 6-jaw chucks up to 6,000 RPM.



Suitable for	Description	ID
ROTA NCK-S plus 210	IFT Set	1404235

Grease

LINOMAX plus

High-performance grease as standard for regularly lubricating SCHUNK manual and power lathe chucks and steady rests.



Bundle	Description	ID
Cartridge	LINOMAX plus cartridge	1342585
Can	LINOMAX plus can	1342586
Bucket	LINOMAX plus bucket	1342587

Grease gun

Auxiliary tools for lubrication of all kinds of SCHUNK products. The grease gun can be used for cartridges of all types of SCHUNK grease.



Bundle	Description	ID
Cartridge	Grease gun	9900543



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