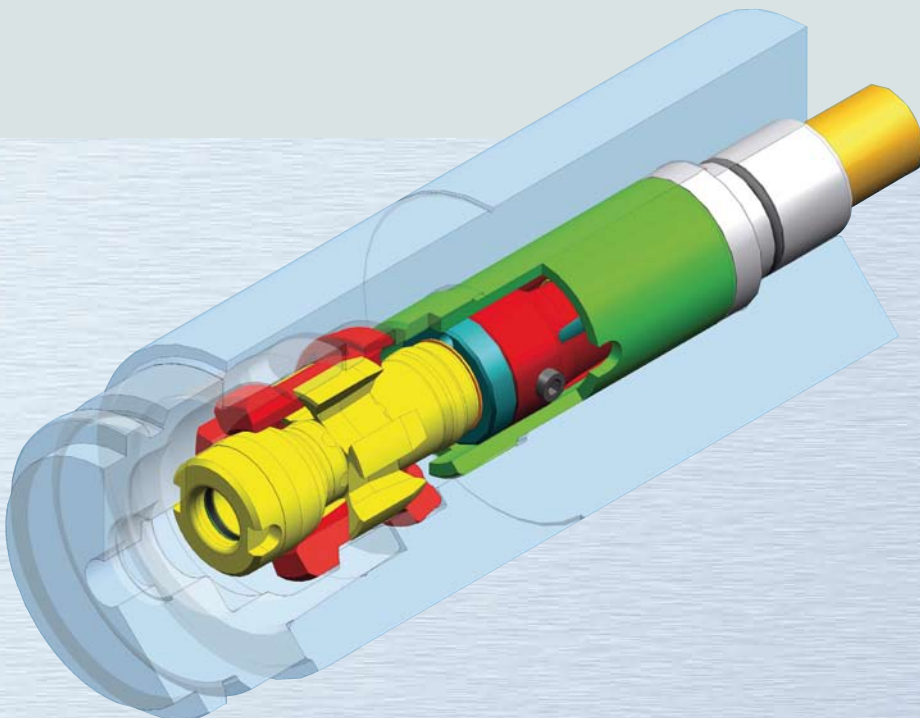




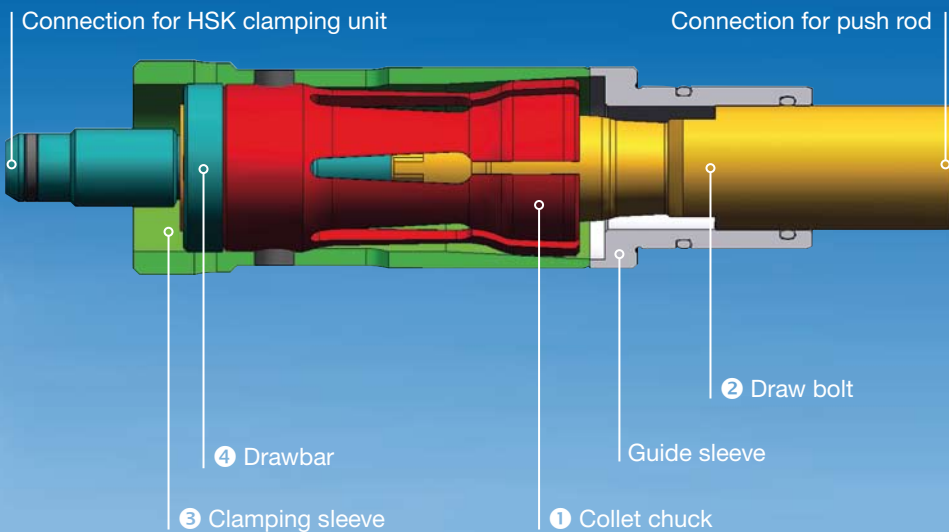
- ▶▶ Significantly firm in grip and simplicity without spring.



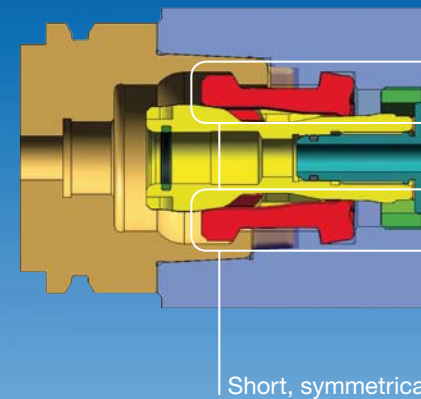
**Locking system
Super Lock**
Springless clamping
with compact design

RÖHM
driven by technology

►► Design



►► Clamped position



►► RÖHM Super Lock for HSK

If high balancing quality combined with static and dynamic stiffness are demanded from the cutting tool in heavy metal cutting operations or with extremely high rotational speeds, then the locking between hollow shank taper and the machine tool must meet enormous demands. Therefore, consistent and secure clamping elements are of utmost importance in the most challenging machining conditions, in order to ensure operational reliability.

RÖHM presents a new and innovative clamping technique with a springless locking unit for hollow shank taper in machine tools: Self-locking without spring packet. This trend-setting principle not only improves the working procedure, but also distinctly facilitates space saving designs.

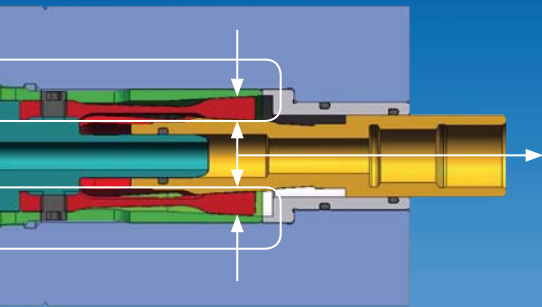
The Function of the Lock System Super Lock

The locking system Super Lock serves as a revolutionary connecting link between the HSK clamping unit and the control rod. Even with large HSK tolerances, the unit safely transfers the actuating force and guarantees the connection through mechanical self-locking.

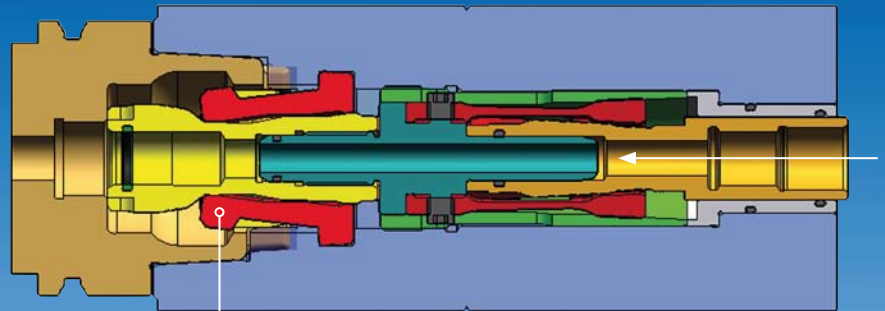
For the first time ever, the RÖHM Super Lock needs no springs and no additional retention force, due to a symmetrical collet chuck. ① The coupled HSK clamping unit is simply moved to the clamping position, and the system locks itself in approx. 0.2 seconds, self-latching on the conical surfaces of the draw bolt ② and clamping sleeve ③.

For releasing, the actuating force of less than 2000 N (example for HSK-A 63) unlocks the draw bolt, pushes the drawbar ④ and therefore the pressure pad of the HSK clamping unit forward. The HSK tool is ejected with less force than with spring systems, since there is no need to overcome the spring force.

►► Release position



al force circulation

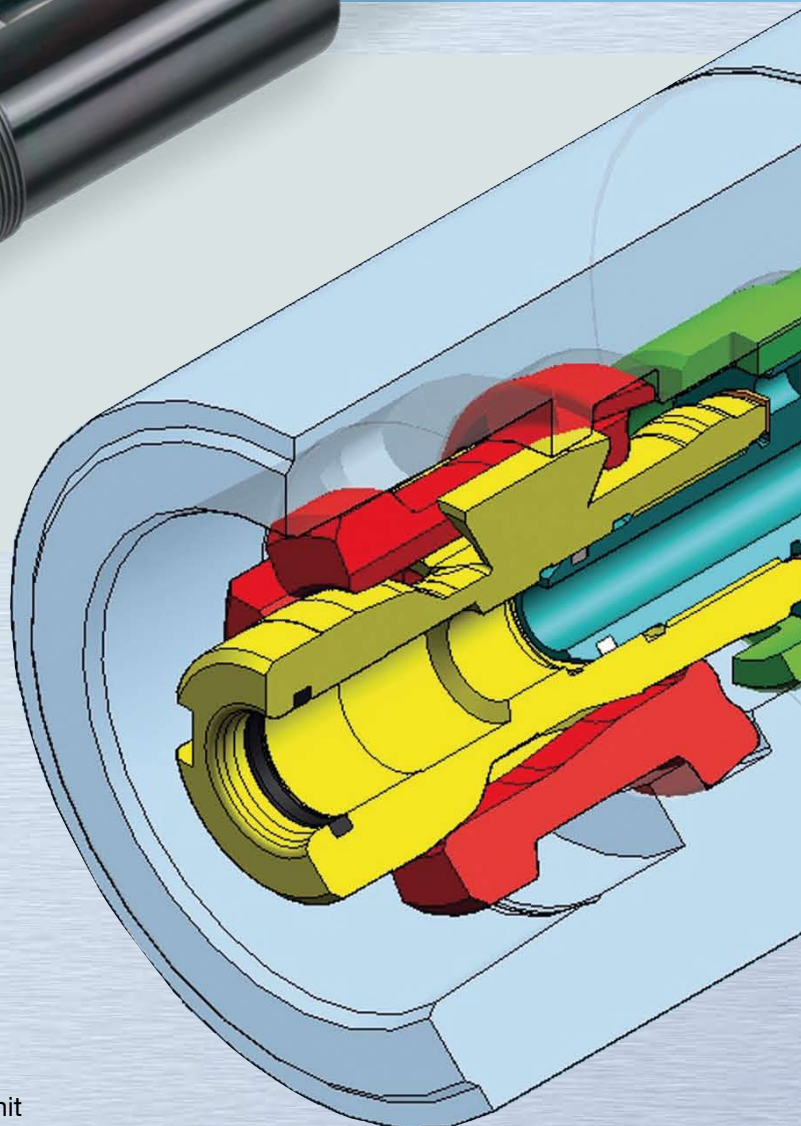


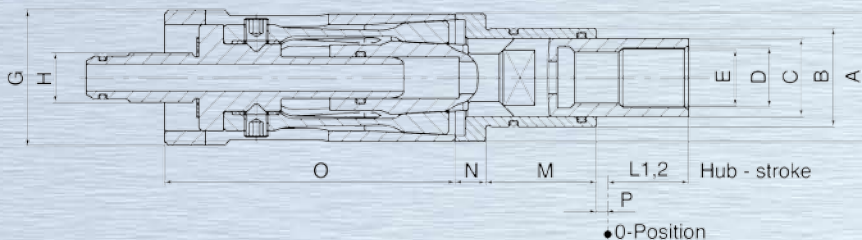
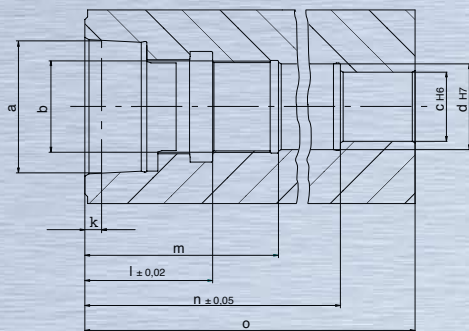
Reduced force for ejection



Product advantages

- Clamping without springs and additional retention force
- Highest balancing quality
- Space saving due to compact design
- Front mounting in short spindles
- Applicable to all HSK sizes
- Secure clamping even with large HSK tolerances
- Continuous, secure and self-locking
- Optimised for use with high speeds
- Highly suitable for heavy-duty metal cutting
- High stiffness combined with the RÖHM HSK clamping unit





L1 nominal clamping stroke
L2 clamping stroke without tool
F1 clamping force with clamping unit
F2 Actuating force on the drawbolt

Locking system Super Lock

- Springless locking unit for HSK clamping systems

Dimensions

Id.-Nr	1122572	1122574	1122718	1122725	1122569	1122731	1122581
HSK-A/E	25	32	40	50	63	80	100
A	13,2	15,1	18,6	23,6	31	39	49
B	11	12,5	16,4	20,4	25	31,2	40
C	8	10	13	16	19	24	31
D	6,2	8,2	10,3	12,5	14,4	17	21
E	M 6x0,75	M 8x0,75	M 10x1	M 12x1,25	M 14x1,5	M 16x1,5	M 20x2
G	M 14x0,5	M 16x0,75	M 20x1	M 25x1	M 33x1	M 42x1,5	M 52x2
H	M 4	M 6x0,75	M 8x1	M 10x1	M 12x1	M 16x1,5	M 20x1,5
L1	11,5	13,8	17,8	19,9	20	27,3	30,8
L2	16,3	17,5	22,8	26,3	28	38,1	42,4
M	15,4	14,5	20,4	23,7	27	44,3	55
N	2,8	3,75	4,6	5,8	7,4	9,2	11,5
O	30	37	45	56	70,4	90	112
P	1	1,25	1,6	2	2,5	3,2	4

Mounting dimensions

a	19	24	30	38	48	60	75
b	M 14x0,5	M 16x0,75	M 20x1	M 25x1	M 33x1	M 42x1,5	M 52x2
c	11	12,5	16,4	20,4	25	31,2	40
d	13,2	15,1	18,6	23,6	31	39	49
k	2,5	3,2	4	5	6,3	8	10
l	20,25	24,5	31,85	37,15	46,2	59,65	73
m	32,25	36,7	45,9	57	70	88 1	10
n	56	69	86	104	130	167	207
o	71	83,5	106,4	127,7	157	211	262

Related HSK-clamping set

Id.-Nr.	594332	1035347	1011063	1037501	1015151	474917	462324
F1 (N)	3.500	5.000	10.000	15.000	25.000	37.500	50.000
F2 (N)	700	1.000	2.000	3.000	5.000	7.500	10.000