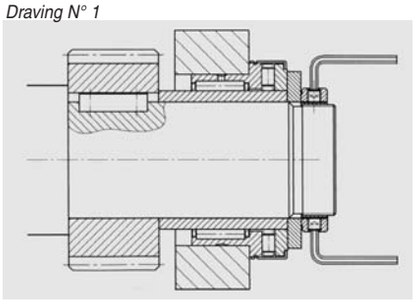
LRE NUT

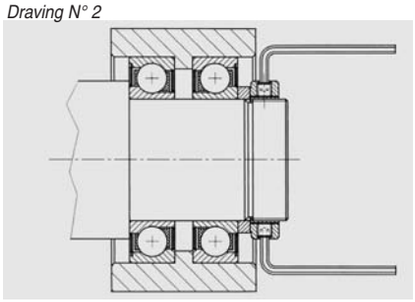
2 SYMETRICAL CLAMPING SPRINGS
BALANCED RADIAL LOCKING

Draving N° 1



Adjusting of a combination needle-bearing onto a drill press spindle.

Draving N° 2



Exemple of application of one LRE Nut.

CHARACTERISTICS

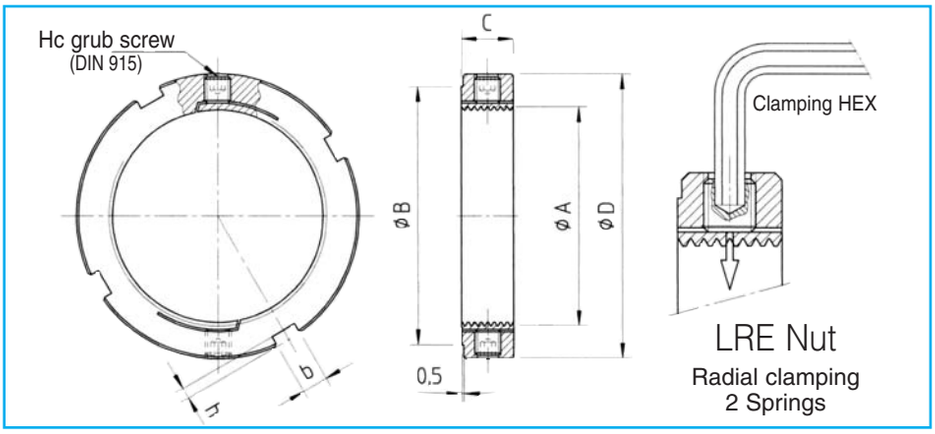
- LRE nuts are used wherever a strong radial clamping is required.
- Featuring 2 symetrically opposed clamping springs at 180°, these nuts have two advantages when compared to the LR nuts:
  - Improved balance allowing higher rotation speeds
  - Twice as much unlocking torque for the same size.
- The radial strength activated by turning the 2 Hc grub screws is exercised onto the threaded clamping spring.
- The contact surface perpendicular to the threaded side allows the adjusting and securing of all types of bearings as well as other mechanical elements requiring very precise tolerances.

SPECIFICATIONS

- **Material:**
  High elastic limit steel
- **Peripheral notches:**
  4 at 90°
- ⊥ ↗ IT 4
  To ensure squareness and minimum run-out of the SFERO nuts and rings, all threading and contact face machining operations are performed in one setting.
- **Screw:**
  Hc type with dog-point tip 14.9
- **Standard manufacturing:**
  - **4H** class precision threading
  - right-hand thread
  - Fine-ground contact face
  - Marquing on the opposite side
  - Black oxide

OPTIONS

- **Other versions are also available upon request:**
  - fine-ground threads
  - Left-hand thread
  - 2 twinned screws for increased unlocking torque
  - Other sizes
  - Other materials



Type	Thread A	Ø D	Ø B	C	b x h	Hc grub screw	Unlocking Torque in Nm	Max Axial load in Newton	Weight in Kg
LRE 7	22 x 1.50	35	30		4 x 2		94	37 800	0,060
LRE 8	25 x 1.50	40	35				106	48 000	0,070
LRE 9	30 x 1.50	45	40				118	58 000	0,085
LRE 10	32 x 1.50	46	41		5 x 2	2	130	74 400	0,090
LRE 11	35 x 1.50	50	45			grub screws	150	77 700	0,095
LRE 12	38 x 1.50	52	47	12		M 6	166	82 000	0,100
LRE 13	40 x 1.50	55	49				188	85 200	0,100
LRE 14	42 x 1.50	56	50				210	89 600	0,110
LRE 15	45 x 1.50	60	54		6 x 2,5		236	100 000	0,120
LRE 16	50 x 1.50	65	59				264	115 600	0,130
LRE 17	52 x 1.50	67	61				294	120 400	0,130
LRE 18	55 x 2.00	75	68				1024	144 800	0,23
LRE 19	60 x 2.00	80	73		7 x 3		1064	158 300	0,25
LRE 20	65 x 2.00	85	78				1120	178 100	0,27
LRE 21	70 x 2.00	90	82				1174	192 100	0,28
LRE 22	75 x 2.00	95	87		8 x 3,5		1230	209 000	0,30
LRE 23	80 x 2.00	105	97				1300	228 000	0,42
LRE 24	85 x 2.00	110	102			2	1350	245 800	0,44
LRE 25	90 x 2.00	115	106			grub screws	1426	265 800	0,46
LRE 26	95 x 2.00	120	111	15	10 x 4	M 8	1500	280 800	0,49
LRE 27	100 x 2.00	125	116				1580	295 800	0,51
LRE 28	105 x 2.00	130	119				1660	310 800	0,52
LRE 29	110 x 2.00	135	124				1740	325 700	0,55
LRE 30	115 x 2.00	140	129		12 x 5		1860	345 200	0,57
LRE 31	120 x 2.00	145	134				1920	362 800	0,59
LRE 32	125 x 2.00	150	139				2080	383 000	0,62
LRE 33	130 x 2.00	155	144				> 4000	406 200	0,65
LRE 34	135 x 2.00	165	152			2	> 4000	633 000	1,10
LRE 35	140 x 2.00	170	157	20	14 x 6	grub screws	> 4000	660 800	1,13
LRE 36	145 x 2.00	175	162			M 10	> 4000	684 600	1,15
LRE 37	150 x 2.00	180	167				> 4000	712 900	1,20

* **Values obtained with Hc grub screws:**
- M 6 screw - clamping torque 4.5 Nm
- M 8 screw - clamping torque 12 Nm
- M10 screw - clamping torque 26 Nm