

## Ball Lock Pins

Titanium

### SPECIFICATION

#### Types

- Type **M**: With hollow for grip
- Type **L**: With L-Handle
- Type **T**: With T-Handle

Pin

Titanium

Balls

Ceramic

Handle (type L / T)

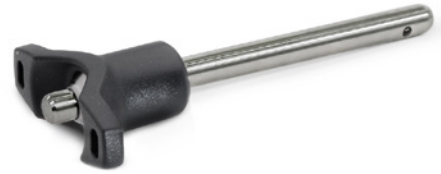
Plastic (Polyamide PA), black

Temperature resistant up to 80 °C

Compression spring

Corrosion-resistant alloy 2.4610

Temperature resistant up to 400 °C



### INFORMATION

Ball lock pins GN 113.30 are used for quick fixing, connecting and locking of various parts and workpieces. A typical application are locating pins which have often to be removed and installed again.

By pressing the spring loaded push button, both balls are unlocked and by releasing it, the balls are locked again.

Due to the selected material, ball lock pins GN 113.30 are suitable for use in highly corrosive environments. The titanium material also results in a 40% weight reduction compared to a similar part of steel or stainless steel.

The titanium version is used in lightweight construction, maritime applications and in chemical production.

The technical section contains the load capacities for the double-sided shearing resistance (breaking strength).

- Range of lock pins (see page 868)

### ON REQUEST

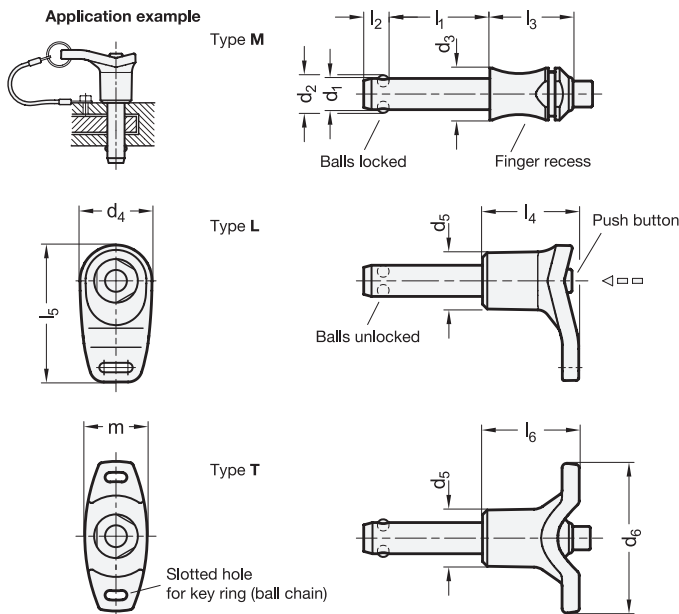
- With round knob

### TECHNICAL INFORMATION

- ISO-Fundamental Tolerances (see page A21)

### ACCESSORY

- Stainless Steel Retaining Cable GN 111.8 (see page )



### GN 113.30-M

Description	d1 -0.04/ -0.08	l1 +0.6	d2	d3	l2 ±1	l3 +0.2	Location bore H11	Load capacity F in kN ≈ double sided shearing resistance according DIN 50141 (breaking strength)	⚖
GN 113.30-6-10-M	6	10	7	10	7	22	6	23	7
GN 113.30-6-20-M	6	20	7	10	7	22	6	23	8
GN 113.30-6-30-M	6	30	7	10	7	22	6	23	9
GN 113.30-6-40-M	6	40	7	10	7	22	6	23	10
GN 113.30-6-50-M	6	50	7	10	7	22	6	23	11
GN 113.30-8-20-M	8	20	9.5	14	8.2	27	8	43	18
GN 113.30-8-30-M	8	30	9.5	14	8.2	27	8	43	21
GN 113.30-8-40-M	8	40	9.5	14	8.2	27	8	43	23
GN 113.30-8-50-M	8	50	9.5	14	8.2	27	8	43	25
GN 113.30-10-20-M	10	20	12	14	9.6	27	10	69	41
GN 113.30-10-30-M	10	30	12	14	9.6	27	10	69	44
GN 113.30-10-40-M	10	40	12	14	9.6	27	10	69	47
GN 113.30-10-50-M	10	50	12	14	9.6	27	10	69	49
GN 113.30-10-60-M	10	60	12	14	9.6	27	10	69	51

### GN 113.30-L

Description	d1 -0.04/ -0.08	l1 +0.6	d2	d4	d5	l2 ±1	l4	l5	Location bore H11	Load capacity F in kN ≈ double sided shearing resistance according DIN 50141 (breaking strength)	⚖
GN 113.30-6-10-L	6	10	7	17.5	13.5	7	26.5	33	6	23	37
GN 113.30-6-20-L	6	20	7	17.5	13.5	7	26.5	33	6	23	38
GN 113.30-6-30-L	6	30	7	17.5	13.5	7	26.5	33	6	23	39
GN 113.30-6-40-L	6	40	7	17.5	13.5	7	26.5	33	6	23	40
GN 113.30-6-50-L	6	50	7	17.5	13.5	7	26.5	33	6	23	41
GN 113.30-8-20-L	8	20	9.5	23	18	8.2	34	43.5	8	43	25
GN 113.30-8-30-L	8	30	9.5	23	18	8.2	34	43.5	8	43	28
GN 113.30-8-40-L	8	40	9.5	23	18	8.2	34	43.5	8	43	30
GN 113.30-8-50-L	8	50	9.5	23	18	8.2	34	43.5	8	43	32
GN 113.30-10-20-L	10	20	12	23	18	9.6	34	43.5	10	69	41
GN 113.30-10-30-L	10	30	12	23	18	9.6	34	43.5	10	69	44
GN 113.30-10-40-L	10	40	12	23	18	9.6	34	43.5	10	69	47
GN 113.30-10-50-L	10	50	12	23	18	9.6	34	43.5	10	69	49
GN 113.30-10-60-L	10	60	12	23	18	9.6	34	43.5	10	69	51

### GN 113.30-T

Description	d1 -0.04/ -0.08	l1 +0.6	d2	d5	d6	l2 ±1	l6	m	Location bore H11	Load capacity F in kN ≈ double sided shearing resistance according DIN 50141 (breaking strength)	⚖
GN 113.30-6-10-T	6	10	7	13.5	40	7	25	15.5	6	23	10
GN 113.30-6-20-T	6	20	7	13.5	40	7	25	15.5	6	23	11
GN 113.30-6-30-T	6	30	7	13.5	40	7	25	15.5	6	23	12
GN 113.30-6-40-T	6	40	7	13.5	40	7	25	15.5	6	23	13
GN 113.30-6-50-T	6	50	7	13.5	40	7	25	15.5	6	23	14
GN 113.30-8-20-T	8	20	9.5	18	48	8.2	31	20.5	8	43	24
GN 113.30-8-30-T	8	30	9.5	18	48	8.2	31	20.5	8	43	27
GN 113.30-8-40-T	8	40	9.5	18	48	8.2	31	20.5	8	43	29
GN 113.30-8-50-T	8	50	9.5	18	48	8.2	31	20.5	8	43	31
GN 113.30-10-20-T	10	20	12	18	48	9.6	31	20.5	10	69	41
GN 113.30-10-30-T	10	30	12	18	48	9.6	31	20.5	10	69	44
GN 113.30-10-40-T	10	40	12	18	48	9.6	31	20.5	10	69	47
GN 113.30-10-50-T	10	50	12	18	48	9.6	31	20.5	10	69	49
GN 113.30-10-60-T	10	60	12	18	48	9.6	31	20.5	10	69	51

