

Order No.	Finish	Nom. pin dia	$d_1$ +0,05	$w_1$	$d_2$	$d_3$	$d_4$	$l_1$	$l_2$	$l_3$	$l_4$	Max. load capacity kN	g
33170.W0010	Black	9,5	9,5	23	11,1	3,5	14	31,3	16,5	12,5	9	1,2	20
33170.W0020	Black	9,5	9,5	40	11,1	4,5	14	36,6	23,0	12,5	9	2,0	29
33170.W0110	Natural	9,5	9,5	23	11,1	3,5	14	31,3	16,5	12,5	9	1,2	20
33170.W0120	Natural	9,5	9,5	40	11,1	4,5	14	36,6	23,0	12,5	9	2,0	29

### Material

Pin: Stainless Steel 1.4305 (AISI 303)

Spring: Stainless Steel  
Finish: Black or Natural

### Technical Notes

Temperature range -50°C to +150°C.

For quick fastening and locking of frequently repeated connections; gun slings, tool holders etc, used in combination with sling swivel receivers no.33172.

Pressing = Unlocking  
Releasing = Locking



**33060  
-33250**

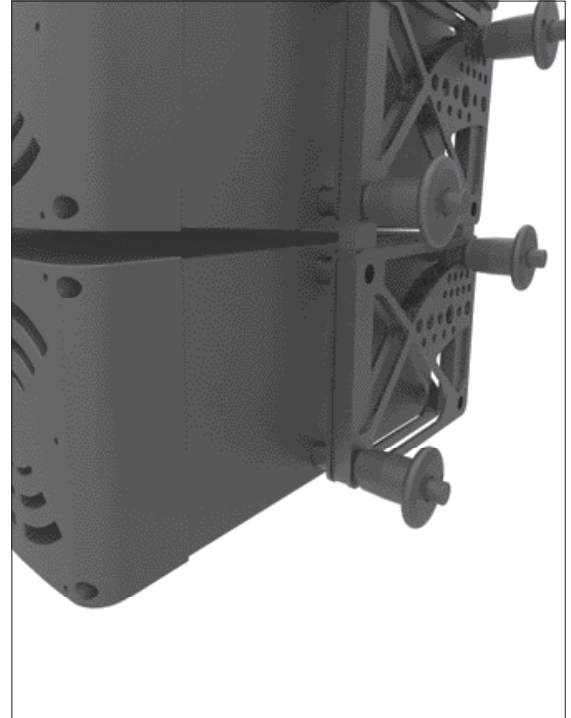
**Wixroyd Ball Lock Pins**  
applications



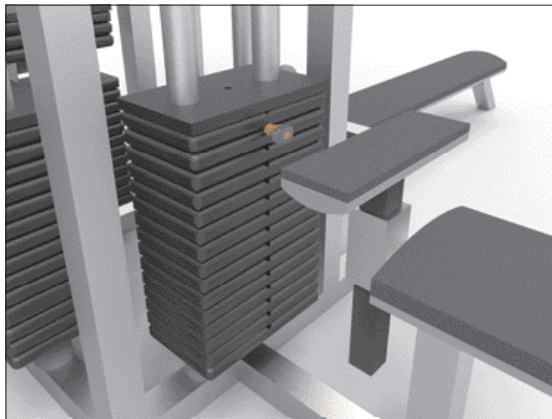
### Sound rigging systems

Ball lock pins on a sound rigging system. Offering secure fixing with high shear forces and easy fitting for operators at heights.

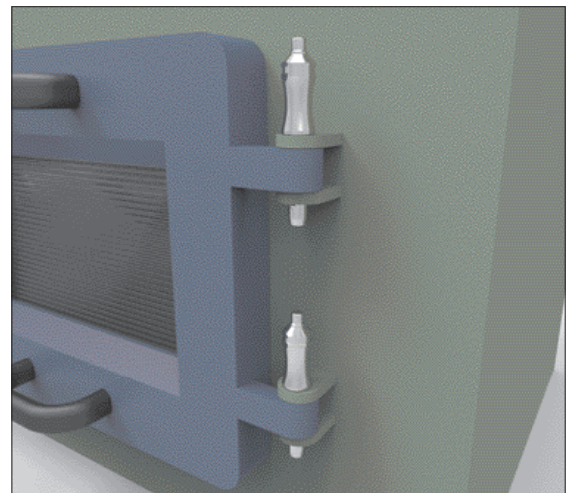
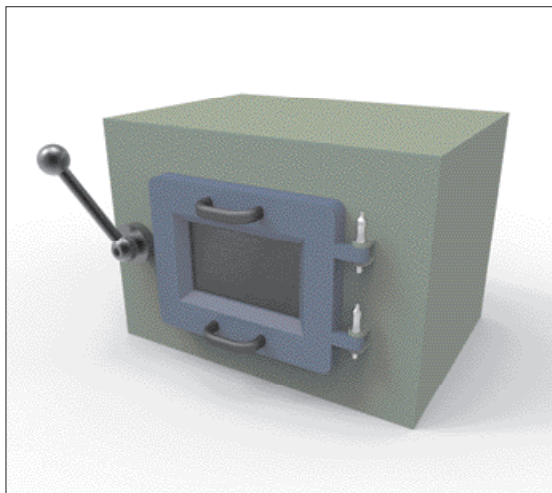
In addition full black powder coating of grip and actuation button eliminates glare from other stage lighting.



### Gym equipment



### Scientific and medical

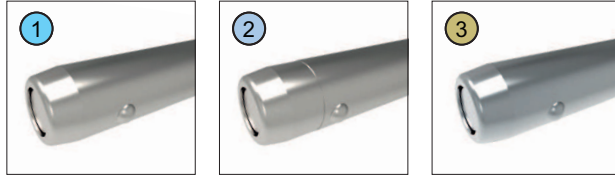


# Wixroyd Ball Lock Pins

features



- ① 1.4305 (AISI 303) - shear force approx. 60% of higher material version 1.4542
- ② 1.4542 (AISI 630) - identified by the ridge on the pin
- ③ CRES 17-4PH (AMS 5643) aviation standard



## Pin material



Plastic tri-star      T-handled, metal      L-handled, metal      Mushroom, metal      Single piece metal, contoured

## Handle style



Special plastic self-spring      Adjustable grip length, plastic      Key ring      Safety, metal      Mushroom Type B aviation      Type R aviation



Stainless wire - (coated) - 2 x key ring      Stainless wire - Key ring and fixing loop      Plastic - 2 x cable tie      Steel wire - (coated) - 2 x key ring      Stainless bead chain - 2 x key ring      Locating bushes

## Lanyards and locating bushes



Press = unlock  
Release = lock (standard)

Press = unlock and position  
Release = lock and simultaneous clamp

Simple spring loaded balls "pullout pin"

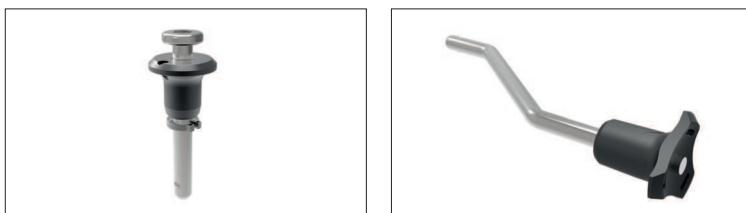
## Actuation

**Important Note: Ball lock pins are not suited to lifting applications!**  
**For quick release lifting pins, see part 33400.**



Shear force      Lifting force

## Important note



Variations on our standard designs are possible, please contact our sales team for technical assistance. Quick production on specials can be as little as 3 weeks.

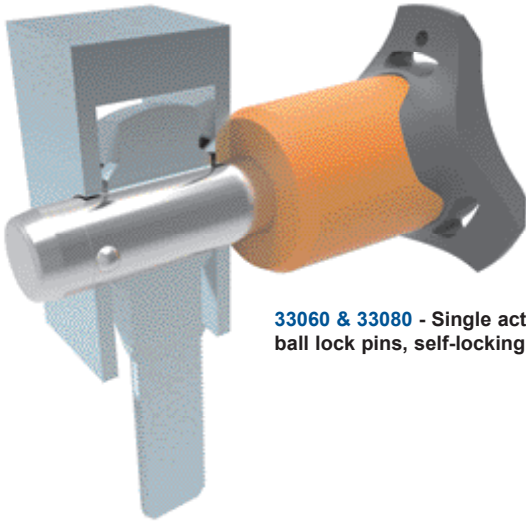
## Special variations





## Applications

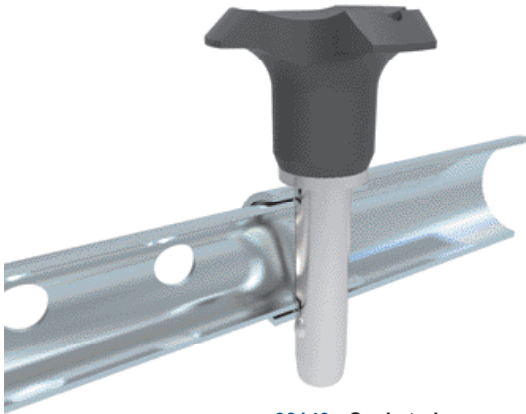
- Positioning.
- Lifting.
- Locking.
- Indexing.
- Joining.



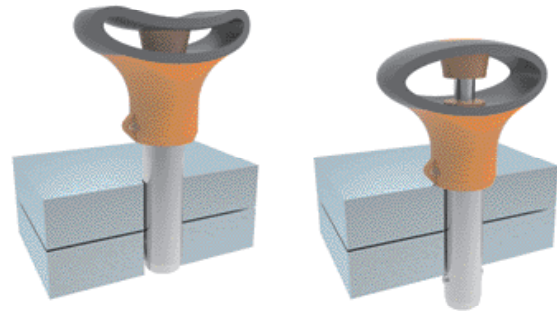
**33060 & 33080** - Single acting ball lock pins, self-locking.



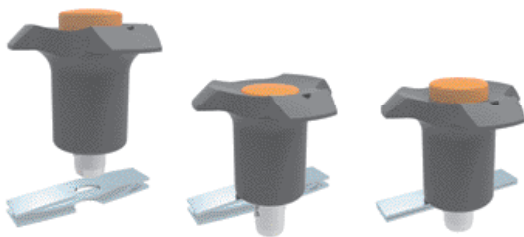
**33194** - Single acting ball lock pins, self locking, simple finish.



**33140** - Socket pins, non-locking, spring loaded balls.



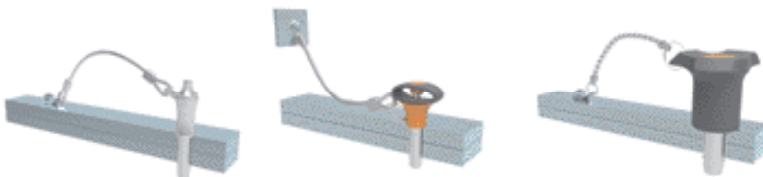
**33100** - Single acting ball lock pin, self locking.



**33180** - Clamping pins, with span compensation, self-locking.



**33220** - Ball lock pins, single acting - L-handle



**33250 & 33270** - Lanyards.