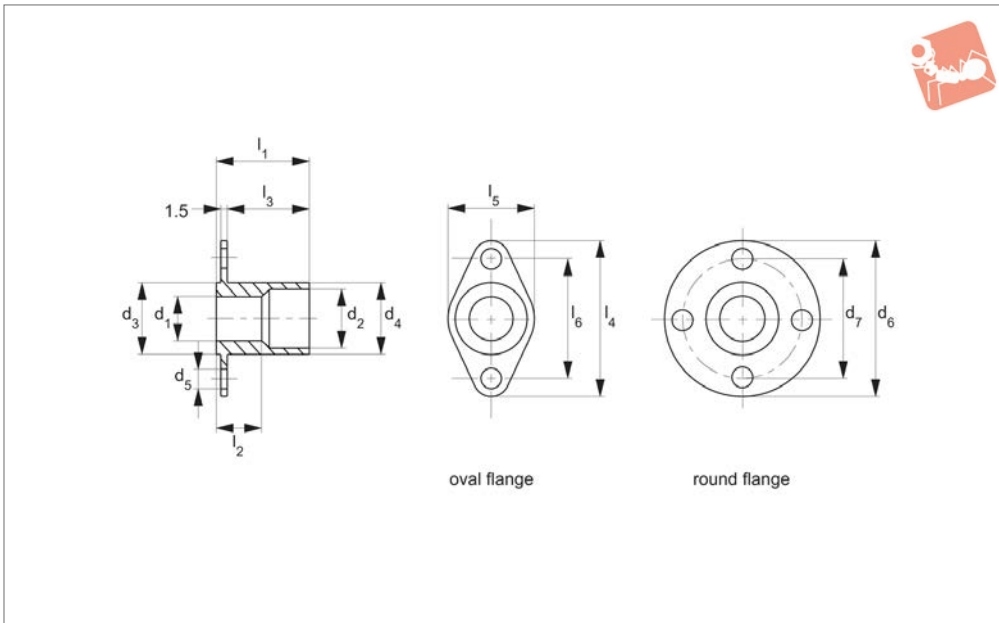




# Flange Bushings for Ball Lock pins

stainless steel

## Ball Lock Pins & Quick Release



**33246**

BALL LOCK PINS & QUICK RELEASE PINS

### Material

Body: stainless steel 1.4305. (AISI 303).

### Technical Notes

For quick and safe location of single acting ball lock pins - especially in soft materials

such as aluminium, or in thin walled components.

Can be used from both sides. Optimised centering due to precision collar on bush.

### Tips

For use with our wide range of metric ball lock pins, see part no.'s 33060 through to 33226.

Order No.	Type	For pin dia. nom.	d <sub>1</sub> tol. H11	d <sub>2</sub>	d <sub>3</sub> -0.05	d <sub>4</sub> -0.1	d <sub>5</sub>	d <sub>6</sub>	d <sub>7</sub>	l <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	l <sub>4</sub>	l <sub>5</sub>	l <sub>6</sub>	Weight g
<b>33246.W0305</b>	Oval flange	5	5	8	10	9.9	3.4	-	-	12	5.4	9.5	25	15	19	6
<b>33246.W0306</b>	Oval flange	6	6	8	10	9.9	3.4	-	-	13	5.3	10.5	25	15	19	6
<b>33246.W0308</b>	Oval flange	8	8	10	12	11.9	4.5	-	-	19	10.3	16.5	30	18	22	10
<b>33246.W0310</b>	Oval flange	10	10	13	16	15.9	4.5	-	-	21	10.2	18.5	35	20	27	19
<b>33246.W0312</b>	Oval flange	12	12	15	19	18.9	4.5	-	-	27	15.2	24.5	40	24	30	34
<b>33246.W0316</b>	Oval flange	16	16	20	24	23.9	5.5	-	-	30	15.3	27.5	50	30	40	52
<b>33246.W0405</b>	Round flange	5	5	8	10	9.9	3.4	25	19	12	5.4	9.5	-	-	-	9
<b>33246.W0406</b>	Round flange	6	6	8	10	9.9	3.4	25	19	13	5.3	10.5	-	-	-	9
<b>33246.W0408</b>	Round flange	8	8	10	12	11.9	4.5	30	22	19	10.3	16.5	-	-	-	14
<b>33246.W0410</b>	Round flange	10	10	13	16	15.9	4.5	35	27	21	10.2	18.5	-	-	-	24
<b>33246.W0412</b>	Round flange	12	12	15	19	18.9	4.5	40	30	27	15.2	24.5	-	-	-	41
<b>33246.W0416</b>	Round flange	16	16	20	24	23.9	5.5	50	40	30	15.3	27.5	-	-	-	63



**Sound Rigging Systems**

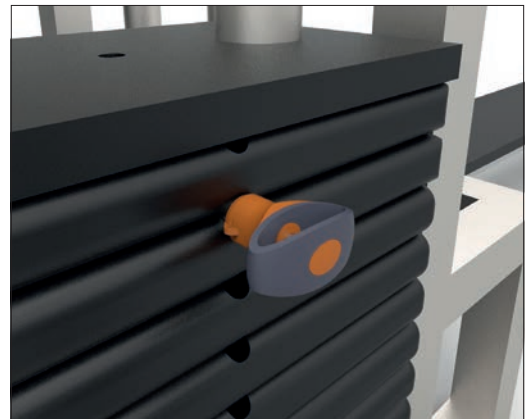
Ball lock pins on a sound rigging system. Offering secure fixing with high shear forces and easy fitting for operators at heights.

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

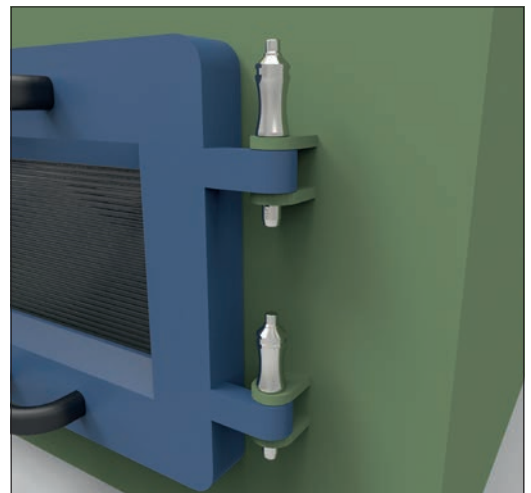


BALL LOCK PINS & QUICK RELEASE PINS

**Gym Equipment**



**Scientific and Medical**





# Wixroyd Ball Lock Pins

features

## 33060 - 33250

Positioning Elements

BALL LOCK PINS & QUICK RELEASE PINS

1.4305 (AISI 303) - shear force approx. 60% of higher material version 1.4542

1.4542 (AISI 630) - identified by the ridge on the pin

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

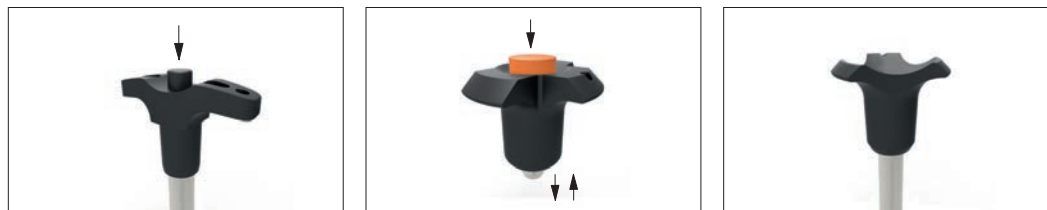


Special plastic self-spring    Adjustable grip length, plastic    Key ring    Safety, metal    Mushroom Type B aviation    Type R aviation



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



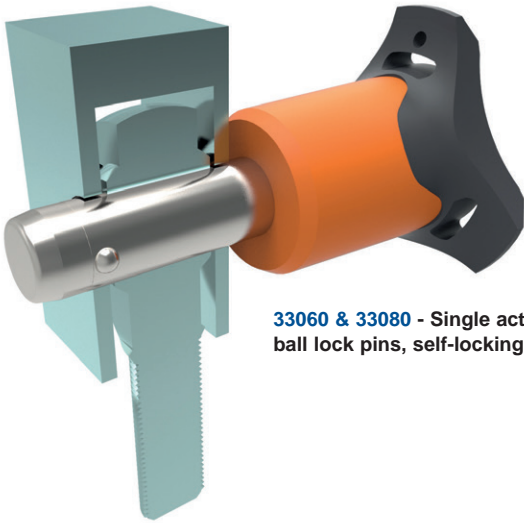
Variations on our standard designs are possible, please contact our sales team for technical assistance. Quick production on specials can be as little as 3 weeks.

### 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.



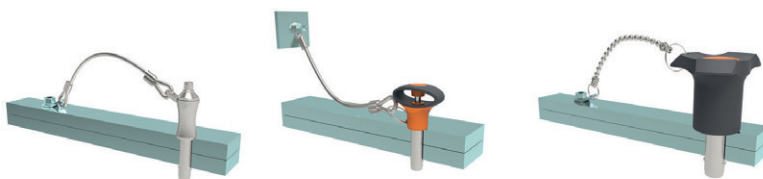
**33140** - Socket pins, non-locking, spring loaded balls.



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



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



**33250 & 33270** - Lanyards.



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