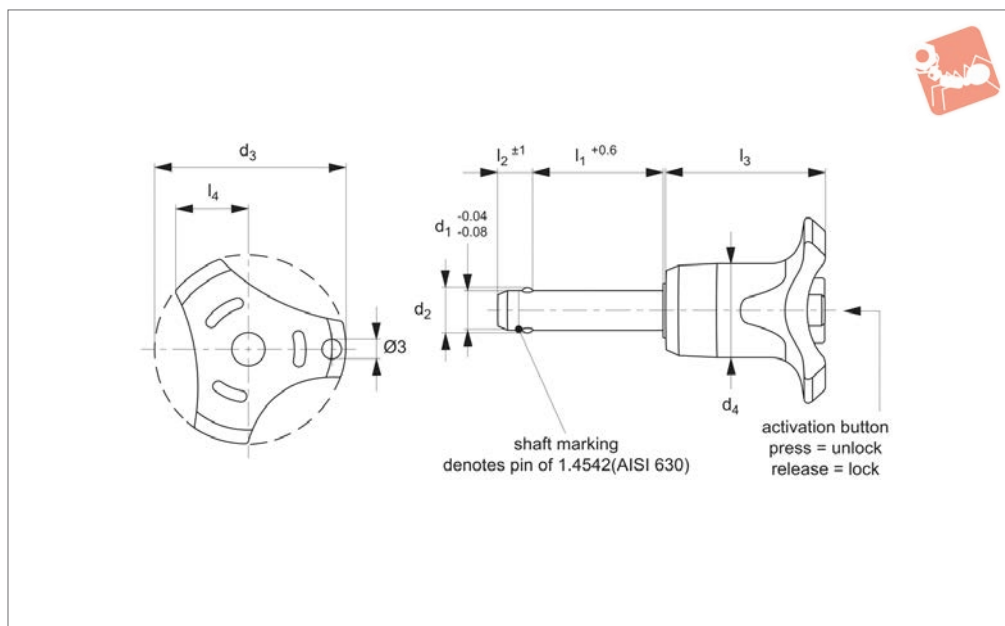


Ball Lock Pins - Single Acting - Black self-locking - stainless steel 1.4542 (AISI 630)

Ball Lock Pins & Quick Release



33060.BK

BALL LOCK PINS & QUICK RELEASE PINS

Material

Pin: stainless steel 1,4542 (AISI 630), precipitation hardened, blast finish.
(marked at end of shaft to denote 1.4542 material).

Ball: stainless steel 1.3541

Spring: stainless steel.

Handle: thermoplastic PA 6.

Available colours: grey/orange, grey/blue, grey/grey, black/black.

Technical Notes

Pressing = unlocking.

Releasing = locking.

Temperature resistance -30°C to +80°C.

For quick fastening and locking of frequently repeated connections.

Tips

For lanyards & retaining cables see part no.33250. Easy install locating bushes

available see part no.33248.

Important Notes

Extreme load capacity due to high material grade.

*Shearing resistance similar to DIN 50141.

Also available in stainless grade 1.4305

(AISI 303), see part no.33080.

Order No.	d ₁	l ₁	d ₂	d ₃	d ₄	l ₂	l ₃	l ₄	Loc'n hole tol. H11	Shearing resistance, double kN min.	Weight g
33060.W0812	5	10	5.5	33.2	14.5	6.0	26.7	10.8	5	24	15
33060.W0813	5	15	5.5	33.2	14.5	6.0	26.7	10.8	5	24	15
33060.W0814	5	20	5.5	33.2	14.5	6.0	26.7	10.8	5	24	16
33060.W0815	5	25	5.5	33.2	14.5	6.0	26.7	10.8	5	24	17
33060.W0816	5	30	5.5	33.2	14.5	6.0	26.7	10.8	5	24	18
33060.W0817	6	60	7.0	33.2	14.5	7.0	26.7	10.8	6	21	26
33060.W0818	6	70	7.0	33.2	14.5	7.0	26.7	10.8	6	21	28
33060.W0819	6	80	7.0	33.2	14.5	7.0	26.7	10.8	6	21	30
33060.W0805	5	35	5.5	33.2	14.5	6.0	26.7	10.8	5	14	19
33060.W0806	5	40	5.5	33.2	14.5	6.0	26.7	10.8	5	14	20
33060.W0807	5	45	5.5	33.2	14.5	6.0	26.7	10.8	5	14	21
33060.W0808	5	50	5.5	33.2	14.5	6.0	26.7	10.8	5	14	23
33060.W0809	5	60	5.5	33.2	14.5	6.0	26.7	10.8	5	14	24
33060.W0810	5	70	5.5	33.2	14.5	6.0	26.7	10.8	5	14	18
33060.W0811	5	80	5.5	33.2	14.5	6.0	26.7	10.8	5	14	19
33060.W0821	8	100	9.6	39.2	18.4	8.2	33.3	13.4	8	38	54
33060.W0822	6	10	7.0	33.2	14.5	7.0	26.7	10.8	6	35	16
33060.W0823	6	15	7.0	33.2	14.5	7.0	26.7	10.8	6	35	17
33060.W0824	6	20	7.0	33.2	14.5	7.0	26.7	10.8	6	35	18
33060.W0825	6	25	7.0	33.2	14.5	7.0	26.7	10.8	6	35	19
33060.W0826	6	30	7.0	33.2	14.5	7.0	26.7	10.8	6	35	20
33060.W0827	6	35	7.0	33.2	14.5	7.0	26.7	10.8	6	35	21
33060.W0828	6	40	7.0	33.2	14.5	7.0	26.7	10.8	6	35	22
33060.W0829	6	45	7.0	33.2	14.5	7.0	26.7	10.8	6	35	23
33060.W0830	6	50	7.0	33.2	14.5	7.0	26.7	10.8	6	35	24
33060.W0831	8	90	9.6	39.2	18.4	8.2	33.3	13.4	8	38	36

Ball Lock Pins & Quick Release

Ball Lock Pins - Single Acting - Black self-locking - stainless steel 1.4542 (AISI 630)



BALL LOCK PINS & QUICK RELEASE PINS

Order No.	d ₁	l ₁	d ₂	d ₃	d ₄	l ₂	l ₃	l ₄	Loc'n hole tol. H11	Shearing resistance, double kN min.	Weight g
33060.W0832	8	10	9.6	39.2	18.4	8.2	33.3	13.4	8	38	38
33060.W0833	8	15	9.6	39.2	18.4	8.2	33.3	13.4	8	38	58
33060.W0834	8	20	9.6	39.2	19.3	8.2	33.3	13.4	8	63	40
33060.W0835	8	25	9.6	39.2	19.3	8.2	33.3	13.4	8	63	40
33060.W0836	8	30	9.6	39.2	19.3	8.2	33.3	13.4	8	63	44
33060.W0837	8	35	9.6	39.2	19.3	8.2	33.3	13.4	8	63	44
33060.W0838	8	40	9.6	39.2	19.3	8.2	33.3	13.4	8	63	47
33060.W0839	8	45	9.6	39.2	19.3	8.2	33.3	13.4	8	63	47
33060.W0840	8	50	9.6	39.2	19.3	8.2	33.3	13.4	8	63	47
33060.W0841	8	60	9.6	39.2	18.4	8.2	33.3	13.4	8	38	62
33060.W0842	8	70	9.6	39.2	18.4	8.2	33.3	13.4	8	38	65
33060.W0843	8	80	9.6	39.2	18.4	8.2	33.3	13.4	8	38	69
33060.W0844	10	20	12.0	39.2	19.3	9.6	33.3	13.4	10	100	47
33060.W0845	10	25	12.0	39.2	19.3	9.6	33.3	13.4	10	100	49
33060.W0846	10	30	12.0	39.2	19.3	9.6	33.3	13.4	10	100	53
33060.W0847	10	35	12.0	39.2	19.3	9.6	33.3	13.4	10	100	55
33060.W0848	10	40	12.0	39.2	19.3	9.6	33.3	13.4	10	100	58
33060.W0849	10	45	12.0	39.2	19.3	9.6	33.3	13.4	10	100	61
33060.W0850	10	50	12.0	39.2	19.3	9.6	33.3	13.4	10	100	61
33060.W0851	10	15	12.0	39.2	18.4	9.6	33.3	13.4	10	60	86
33060.W0852	10	60	12.0	39.2	19.3	9.6	33.3	13.4	10	100	70
33060.W0853	10	70	12.0	39.2	18.4	9.6	33.3	13.4	10	60	91
33060.W0854	10	80	12.0	39.2	18.4	9.6	33.3	13.4	10	60	97
33060.W0855	10	90	12.0	39.2	18.4	9.6	33.3	13.4	10	60	103
33060.W0856	10	100	12.0	39.2	18.4	9.6	33.3	13.4	10	60	109
33060.W0857	10	110	12.0	39.2	18.4	9.6	33.3	13.4	10	60	115
33060.W0858	10	120	12.0	39.2	18.4	9.6	33.3	13.4	10	60	53
33060.W0864	12	20	14.5	47.6	25.2	10.6	39.7	16.7	12	87	156
33060.W0865	10	25	12.0	39.2	19.3	9.6	33.3	13.4	10	100	70
33060.W0866	12	30	14.5	47.6	26.3	10.6	39.7	16.7	12	144	100
33060.W0867	12	35	14.5	47.6	26.3	10.6	39.7	16.7	12	144	105
33060.W0868	12	40	14.5	47.6	26.3	10.6	39.7	16.7	12	144	105
33060.W0869	12	45	14.5	47.6	26.3	10.6	39.7	16.7	12	144	113
33060.W0870	12	50	14.5	47.6	26.3	10.6	39.7	16.7	12	144	117
33060.W0872	12	60	14.5	47.6	26.3	10.6	39.7	16.7	12	144	126
33060.W0874	12	70	14.5	47.6	26.3	10.6	39.7	16.7	12	144	134
33060.W0876	12	80	14.5	47.6	26.3	10.6	39.7	16.7	12	144	143
33060.W0877	12	90	14.5	47.6	25.2	10.6	39.7	16.7	12	87	165
33060.W0878	12	100	14.5	47.6	25.2	10.6	39.7	16.7	12	87	173
33060.W0879	12	110	14.5	47.6	25.2	10.6	39.7	16.7	12	87	182
33060.W0880	12	120	14.5	47.6	25.2	10.6	39.7	16.7	12	87	96
33060.W0886	16	30	19.0	47.6	26.3	14.0	39.7	16.7	16	257	132
33060.W0887	16	35	19.0	47.6	26.3	14.0	39.7	16.7	16	257	140
33060.W0888	16	40	19.0	47.6	26.3	14.0	39.7	16.7	16	257	148
33060.W0889	16	45	19.0	47.6	26.3	14.0	39.7	16.7	16	257	155
33060.W0890	16	45	19.0	47.6	26.3	14.0	39.7	16.7	16	257	155
33060.W0892	16	60	19.0	47.6	26.3	14.0	39.7	16.7	16	257	178
33060.W0894	16	70	19.0	47.6	26.3	14.0	39.7	16.7	16	257	194
33060.W0896	16	80	19.0	47.6	26.3	14.0	39.7	16.7	16	257	208
33060.W0897	16	90	19.0	47.6	25.2	14.0	39.7	16.7	16	155	234
33060.W0898	16	10	19.0	47.6	25.2	14.0	39.7	16.7	16	155	251
33060.W0899	16	110	19.0	47.6	25.2	14.0	39.7	16.7	16	155	266
33060.W0900	16	120	19.0	47.6	25.2	14.0	39.7	16.7	16	155	281
33060.W0901	16	130	19.0	47.6	25.2	14.0	39.7	16.7	16	155	297
33060.W0902	16	140	19.0	47.6	25.2	14.0	39.7	16.7	16	155	313
33060.W0903	16	150	19.0	47.6	25.2	14.0	39.7	16.7	16	155	328
33060.W0904	20	60	25.0	57.1	35.4	20.5	50.7	21.5	20	403	343
33060.W0905	20	50	25.0	57.1	33.8	20.5	50.7	21.5	20	403	329
33060.W0906	20	70	25.0	57.1	33.8	20.5	50.7	21.5	20	403	377
33060.W0907	20	90	25.0	57.1	33.8	20.5	50.7	21.5	20	403	426
33060.W0908	20	80	25.0	57.1	35.4	20.5	50.7	21.5	20	403	392
33060.W0912	20	100	25.0	57.1	35.4	20.5	50.7	21.5	20	403	440
33060.W0913	20	110	25.0	57.1	33.8	20.5	50.7	21.5	20	403	474
33060.W0916	20	120	25.0	57.1	33.8	20.5	50.7	21.5	20	403	488
33060.W0917	20	130	25.0	57.1	33.8	20.5	50.7	21.5	20	403	523
33060.W0918	20	140	25.0	57.1	33.8	20.5	50.7	21.5	20	403	546
33060.W0919	20	150	25.0	57.1	33.8	20.5	50.7	21.5	20	403	571

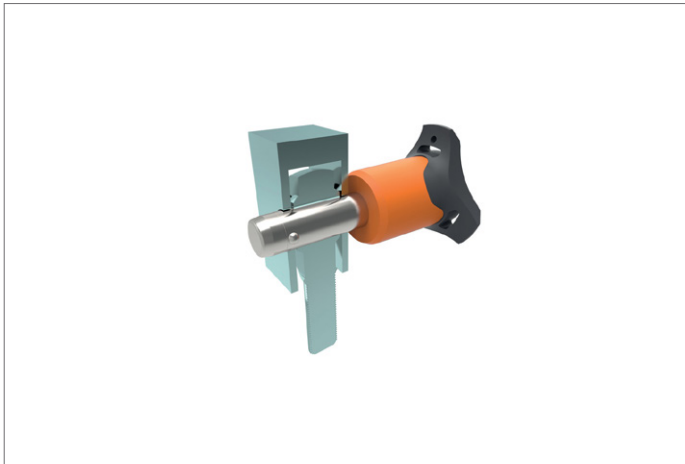


Ball Lock Pins - Single Acting - Black

self-locking - stainless steel 1.4542 (AISI 630)

Ball Lock Pins & Quick Release

Order No.	d ₁	l ₁	d ₂	d ₃	d ₄	l ₂	l ₃	l ₄	Loc'n hole tol. H11	Shearing resistance, double kN min.	Weight g
33060.W0921	25	50	30.8	57.1	33.8	22.0	50.7	21.5	25	631	415
33060.W0922	25	60	30.8	57.1	33.8	22.0	50.7	21.5	25	631	453
33060.W0923	25	70	30.8	57.1	33.8	22.0	50.7	21.5	25	631	490
33060.W0924	25	80	30.8	57.1	33.8	22.0	50.7	21.5	25	631	528
33060.W0925	25	90	30.8	57.1	33.8	22.0	50.7	21.5	25	631	565
33060.W0926	25	100	30.8	57.1	33.8	22.0	50.7	21.5	25	631	603
33060.W0927	25	110	30.8	57.1	33.8	22.0	50.7	21.5	25	631	640
33060.W0928	25	120	30.8	57.1	33.8	22.0	50.7	21.5	25	631	678
33060.W0929	25	130	30.8	57.1	33.8	22.0	50.7	21.5	25	631	715
33060.W0930	25	140	30.8	57.1	33.8	22.0	50.7	21.5	25	631	753
33060.W0931	25	150	30.8	57.1	33.8	22.0	50.7	21.5	25	631	790





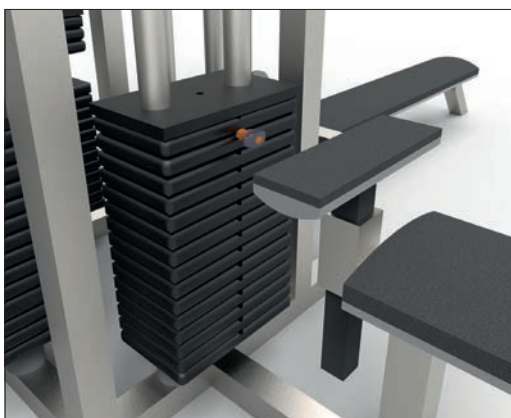
Sound Rigging Systems

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

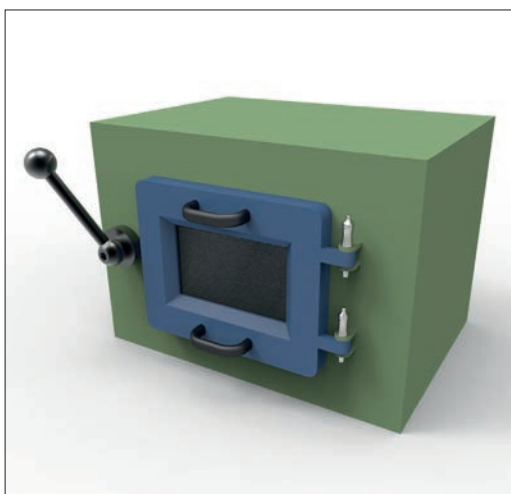
In addition full black powder coating of grip and actuation button eliminates glare from other stage lighting.

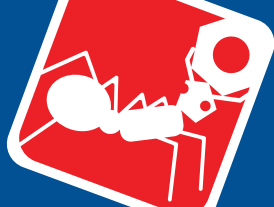


Gym Equipment



Scientific and Medical





Wixroyd Ball Lock Pins

features

33060 - 33250

Positioning Elements

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

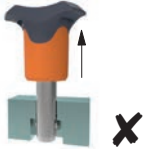
**Important Note: Ball lock pins are
not suited to lifting applications!**
**For quick release lifting pins,
see part 33400.**



Shear force



Lifting force

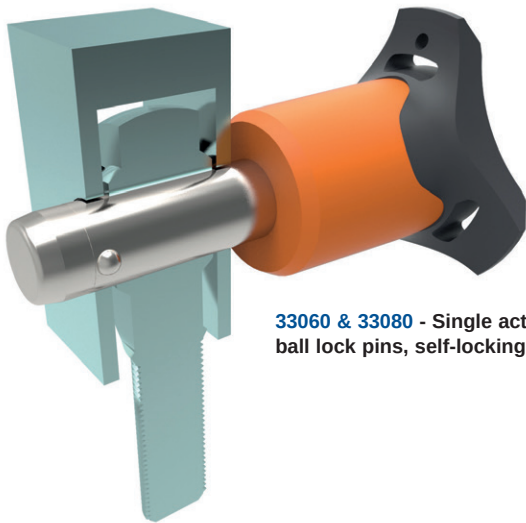


Important Note



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



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



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



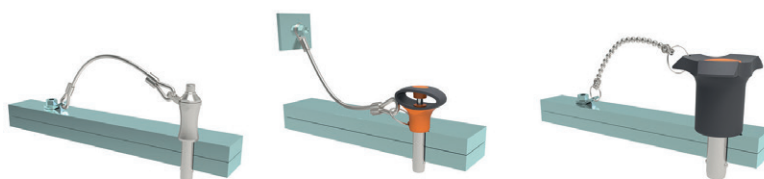
33140 - Socket pins, non-locking, spring loaded balls.



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

Applications

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