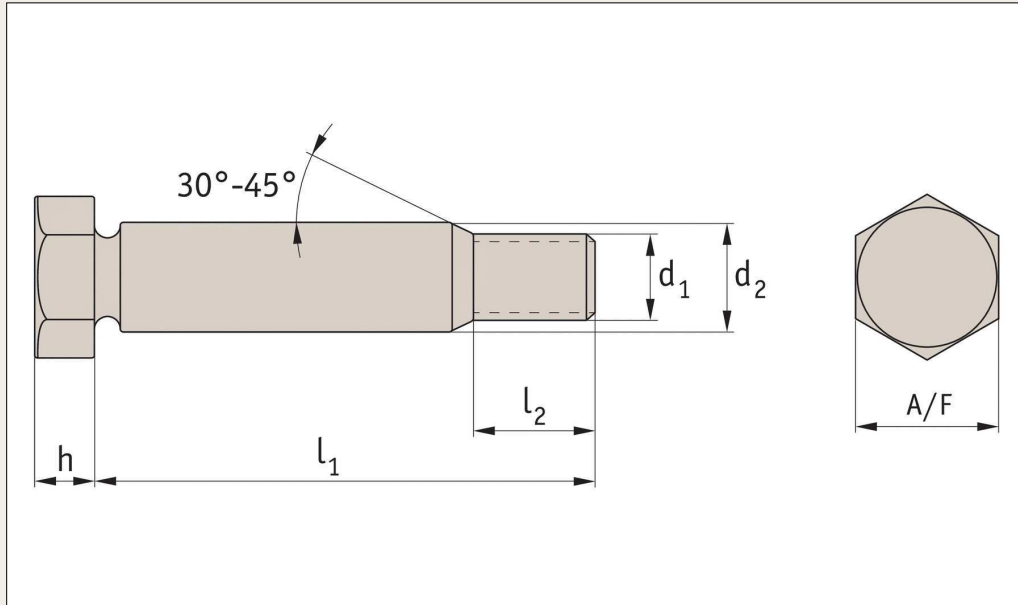


Steel Shoulder Bolts - Hex. Head

standard thread, grade 10.9

Shoulder Screws



P0139

Material

Black alloy steel, strength 10.9.
Hardness 38 HRC, tensile strength
830 N/mm².

To DIN 609.

For strength 8.8 see part P0138.SC

Tips

Do not tighten to standard strength
class 10,9 torque; as the tightening

torque is limited,
by the presence of the reduced
diameter undercut under the head
and at the shoulder/thread area.
Drill hole to H7 tolerance.

Technical notes

Order No.	d ₁	d ₂ k6	l ₁	l ₂	h	A/F
P0139.080-025	M 8	9	25	14,5	5,3	13
P0139.080-028	M 8	9	28	14,5	5,3	13
P0139.080-035	M 8	9	35	14,5	5,3	13
P0139.080-038	M 8	9	38	14,5	5,3	13
P0139.080-040	M 8	9	40	14,5	5,3	13
P0139.080-048	M 8	9	48	14,5	5,3	13
P0139.080-060	M 8	9	60	16,5	5,3	13
P0139.080-080	M 8	9	80	16,5	5,3	13
P0139.100-030	M10	11	30	17,5	6,4	17
P0139.100-032	M10	11	32	17,5	6,4	17
P0139.100-035	M10	11	35	17,5	6,4	17
P0139.100-038	M10	11	38	17,5	6,4	17
P0139.100-040	M10	11	40	17,5	6,4	17
P0139.100-042	M10	11	42	17,5	6,4	17
P0139.100-045	M10	11	45	17,5	6,4	17
P0139.100-048	M10	11	48	17,5	6,4	17
P0139.100-050	M10	11	50	17,5	6,4	17
P0139.100-055	M10	11	55	19,5	6,4	17
P0139.100-060	M10	11	60	19,5	6,4	17
P0139.100-065	M10	11	65	19,5	6,4	17
P0139.100-070	M10	11	70	19,5	6,4	17
P0139.100-075	M10	11	75	19,5	6,4	17
P0139.100-080	M10	11	80	19,5	6,4	17
P0139.120-030	M12	13	30	20,5	7,5	19
P0139.120-032	M12	13	32	20,5	7,5	19
P0139.120-035	M12	13	35	20,5	7,5	19
P0139.120-038	M12	13	38	20,5	7,5	19
P0139.120-040	M12	13	40	20,5	7,5	19
P0139.120-045	M12	13	45	20,5	7,5	19

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AUTOMOTION®
COMPONENTS

Steel Shoulder Bolts - Hex. Head

standard thread, grade 10.9

Shoulder Screws

Order No.	d ₁	d ₂ k6	l ₁	l ₂	h	A/F
P0139.120-048	M12	13	48	20,5	7,5	19
P0139.120-050	M12	13	50	20,5	7,5	19
P0139.120-055	M12	13	55	22,5	7,5	19
P0139.120-060	M12	13	60	22,5	7,5	19
P0139.120-065	M12	13	65	22,5	7,5	19
P0139.120-070	M12	13	70	22,5	7,5	19
P0139.120-075	M12	13	75	22,5	7,5	19
P0139.120-090	M12	13	90	22,5	7,5	19
P0139.120-110	M12	13	110	22,5	7,5	19
P0139.140-035	M14	15	35	22,0	8,8	22
P0139.140-040	M14	15	40	22,0	8,8	22
P0139.140-042	M14	15	42	22,0	8,8	22
P0139.140-045	M14	15	45	22,0	8,8	22
P0139.140-050	M14	15	50	22,0	8,8	22
P0139.140-055	M14	15	55	24,0	8,8	22
P0139.140-060	M14	15	60	24,0	8,8	22
P0139.140-080	M14	15	80	24,0	8,8	22
P0139.160-040	M16	17	40	25,0	10	24
P0139.160-042	M16	17	42	25,0	10	24
P0139.160-045	M16	17	45	25,0	10	24
P0139.160-048	M16	17	48	25,0	10	24
P0139.160-050	M16	17	50	25,0	10	24
P0139.160-055	M16	17	55	27,0	10	24
P0139.160-060	M16	17	60	27,0	10	24
P0139.160-065	M16	17	65	27,0	10	24
P0139.160-070	M16	17	70	27,0	10	24
P0139.160-075	M16	17	75	27,0	10	24
P0139.160-080	M16	17	80	27,0	10	24
P0139.160-085	M16	17	85	27,0	10	24
P0139.160-090	M16	17	90	27,0	10	24
P0139.160-100	M16	17	100	27,0	10	24
P0139.160-110	M16	17	110	27,0	10	24
P0139.160-120	M16	17	120	27,0	10	24
P0139.160-150	M16	17	150	27,0	10	24
P0139.200-045	M20	21	45	28,5	12,5	30
P0139.200-050	M20	21	50	28,5	12,5	30
P0139.200-055	M20	21	55	30,5	12,5	30
P0139.200-060	M20	21	60	30,5	12,5	30
P0139.200-065	M20	21	65	30,5	12,5	30
P0139.200-070	M20	21	70	30,5	12,5	30
P0139.200-075	M20	21	75	30,5	12,5	30
P0139.200-080	M20	21	80	30,5	12,5	30
P0139.200-085	M20	21	85	30,5	12,5	30
P0139.200-090	M20	21	90	30,5	12,5	30
P0139.200-100	M20	21	100	30,5	12,5	30
P0139.200-105	M20	21	105	30,5	12,5	30
P0139.200-110	M20	21	110	30,5	12,5	30
P0139.200-120	M20	21	120	30,5	12,5	30
P0139.200-130	M20	21	130	30,5	12,5	30
P0139.200-140	M20	21	140	30,5	12,5	30
P0139.200-150	M20	21	150	30,5	12,5	30
P0139.200-160	M20	21	160	35,5	12,5	30
P0139.240-055	M24	25	55	36,5	15,0	36
P0139.240-060	M24	25	60	36,5	15,0	36
P0139.240-065	M24	25	65	36,5	15,0	36
P0139.240-070	M24	25	70	36,5	15,0	36
P0139.240-075	M24	25	75	36,5	15,0	36
P0139.240-080	M24	25	80	36,5	15,0	36

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Steel Shoulder Bolts - Hex. Head

standard thread, grade 10.9

Shoulder Screws

Order No.	d ₁	d ₂ k6	l ₁	l ₂	h	A/F
P0139.240-085	M24	25	85	36,5	15,0	36
P0139.240-090	M24	25	90	36,5	15,0	36
P0139.240-100	M24	25	100	36,5	15,0	36
P0139.240-105	M24	25	105	36,5	15,0	36
P0139.240-110	M24	25	110	36,5	15,0	36
P0139.240-120	M24	25	120	36,5	15,0	36
P0139.240-125	M24	25	125	36,5	15,0	36
P0139.240-130	M24	25	130	36,5	15,0	36
P0139.240-140	M24	25	140	36,5	15,0	36
P0139.240-150	M24	25	150	36,5	15,0	36
P0139.240-160	M24	25	160	41,5	15,0	36
P0139.240-170	M24	25	170	41,5	15,0	36
P0139.240-180	M24	25	180	41,5	15,0	36
P0139.300-080	M30	32	80	43,0	19,0	46
P0139.300-090	M30	32	90	43,0	19,0	46
P0139.300-100	M30	32	100	43,0	19,0	46
P0139.300-105	M30	32	105	43,0	19,0	46
P0139.300-110	M30	32	110	43,0	19,0	46
P0139.300-120	M30	32	120	43,0	19,0	46
P0139.300-130	M30	32	130	43,0	19,0	46
P0139.300-140	M30	32	140	43,0	19,0	46
P0139.360-120	M36	38	120	49,0	22,0	55
P0139.360-130	M36	38	130	49,0	22,0	55
P0139.360-200	M36	38	200	54,0	22,0	55

Steel shoulder screws

These are our least expensive option. They are produced to ISO 7379 standards. Thread sizes from Ø4 M3 to Ø24 M20. We manufacture special shoulder screws to customer drawings with a minimum batch size.



Stainless steel shoulder screws

We have three different grades of stainless steel shoulder screws:

A2 series – these are our standard grade of stainless. They are strong and resistant to corrosion but not to very harsh environments such as salt water.

For standard sizes Ø6 M5 up to Ø16 M12, see our part no P0137. For miniature sizes down to Ø4 M3 see parts numbers P0130 and P0132.

416 series – these are made from harder stainless steel with improved shear strengths but the parts are more prone to corrosion (see part no. P0131 and P0133).

A4 series – these shoulder screws (P0143) are very resistant to corrosion but are considerably more expensive than other stainless versions.



Shoulder bolts

Our range of precision shoulder bolts with hexagonal heads come in both steel (grades 8.8 and 10.9) and stainless steel (grade A2). These bolts are manufactured to DIN 609 and DIN 610. We also have shoulder bolts for construction, manufactured to DIN 7968.

	DIN 609 standard length thread	DIN 610 short length thread	DIN 7968 construction
Grade 8.8 steel 	P0138.SC	P0140.SC	P0142
Grade 10.9 steel 	P0139	P0141	-
A2 stainless steel 	P0138.A2	P0140.A2	-

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Product Overview

Shoulder Screws & Shoulder Bolts

Shoulder Screws

Part No.		Material	Head	Corrosion resistance	Strength	Ø/thread	DIN/ISO
P0130		Stainless A2	Hex socket	✓✓	✓	Min: Ø4/M3 Max: Ø12/M10	-
P0131		Stainless 416	Hex socket	✓	✓✓	Min: Ø4/M3 Max: Ø12/M10	-
P0132		Stainless A2	Slotted	✓✓	✓	Min: Ø4/M3 Max: Ø12/M10	-
P0133		Stainless 416	Slotted	✓	✓✓	Min: Ø4/M3 Max: Ø12/M10	-
P0134		Stainless A2	Hex socket	✓✓	✓	Min: Ø4/M3 Max: Ø8/M6	-
P0135		Stainless A2	Hex head	✓✓	✓	Min: Ø4/M3 Max: Ø12/M10	-
P0136		Steel 12,9	Hex socket	✗	✓✓	Min: Ø4/M3 Max: Ø24/M20	ISO 7379
P0137		Stainless A2	Hex socket	✓✓	✓	Min: Ø6/M5 Max: Ø20/M16	ISO 7379
P0138		Steel 8,8	Hex head (long thread)	✗	✓	Min: Ø9/M8 Max: Ø44/M42	DIN 610
P0139		Steel 10,9	Hex head (long thread)	✗	✓✓	Min: Ø9/M8 Max: Ø38/M36	DIN 610
P0140		Steel 8,8	Hex socket (short thread)	✗	✓✓	Min: Ø9/M8 Max: Ø44/M42	DIN 609
P0141		Steel 10,9	Hex socket (short thread)	✗	✓✓	Min: Ø9/M8 Max: Ø38/M36	DIN 609
P0142		Steel 8,8	Hex head	✗	✓✓	Min: Ø12/M12 Max: Ø27/M27	DIN 7968
P0143		Stainless A4	Hex socket	✓✓✓	✓	Min: Ø4/M3 Max: Ø12/M10	ISO 7379
P0144		Stainless A2	Pan head	✓✓	✓✓	Min: Ø4/M3 Max: Ø10/M8	DIN 923

Shoulder Screw from Automation Components