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JUWEL KS-Series

Cassettes

Item number	Name	Description	Torque wrench	Torque
74020019	KSK-2019	Cassette 19 mm	KS-23	230 - 2.300 Nm
74020022	KSK-2022	Cassette 22 mm	KS-23	230 - 2.300 Nm
74020026	KSK-2026	Cassette 26 mm	KS-23	230 - 2.300 Nm
74020027	KSK-2027	Cassette 27 mm	KS-23	230 - 2.300 Nm
74020030	KSK-2030	Cassette 30 mm	KS-23	230 - 2.300 Nm
74020032	KSK-2032	Cassette 32 mm	KS-23	230 - 2.300 Nm
74020033	KSK-2033	Cassette 33 mm	KS-23	230 - 2.300 Nm
74020034	KSK-2034	Cassette 34 mm	KS-23	230 - 2.300 Nm
74020035	KSK-2035	Cassette 35 mm	KS-23	230 - 2.300 Nm
74020036	KSK-2036	Cassette 36 mm	KS-23	230 - 2.300 Nm
74020038	KSK-2038	Cassette 38 mm	KS-23	230 - 2.300 Nm
74020040	KSK-2040	Cassette 40 mm	KS-23	230 - 2.300 Nm
74020041	KSK-2041	Cassette 41 mm	KS-23	230 - 2.300 Nm
74020043	KSK-2043	Cassette 43 mm	KS-23	230 - 2.300 Nm
74020044	KSK-2044	Cassette 44 mm	KS-23	230 - 2.300 Nm
74020046	KSK-2046	Cassette 46 mm	KS-23	230 - 2.300 Nm
74020048	KSK-2048	Cassette 48 mm	KS-23	230 - 2.300 Nm
74020049	KSK-2049	Cassette 49 mm	KS-23	230 - 2.300 Nm
74020050	KSK-2050	Cassette 50 mm	KS-23	230 - 2.300 Nm
74020052	KSK-2052	Cassette 52 mm	KS-23	230 - 2.300 Nm
74020054	KSK-2054	Cassette 54 mm	KS-23	230 - 2.300 Nm
74020055	KSK-2055	Cassette 55 mm	KS-23	230 - 2.300 Nm
74020057	KSK-2057	Cassette 57 mm	KS-23	230 - 2.300 Nm
74020059	KSK-2059	Cassette 59 mm	KS-23	230 - 2.300 Nm
74020060	KSK-2060	Cassette 60 mm	KS-24	240 - 2.400 Nm
74040034	KSK-4034	Cassette 34 mm	KS-58	585 - 5.850 Nm
74040036	KSK-4036	Cassette 36 mm	KS-58	585 - 5.850 Nm
74040038	KSK-4038	Cassette 38 mm	KS-58	585 - 5.850 Nm
74040040	KSK-4040	Cassette 40 mm	KS-58	585 - 5.850 Nm
74040041	KSK-4041	Cassette 41 mm	KS-58	585 - 5.850 Nm
74040043	KSK-4043	Cassette 43 mm	KS-58	585 - 5.850 Nm
74040044	KSK-4044	Cassette 44 mm	KS-58	585 - 5.850 Nm
74040046	KSK-4046	Cassette 46 mm	KS-58	585 - 5.850 Nm
74040048	KSK-4048	Cassette 48 mm	KS-58	585 - 5.850 Nm
74040049	KSK-4049	Cassette 49 mm	KS-58	585 - 5.850 Nm
74040050	KSK-4050	Cassette 50 mm	KS-58	585 - 5.850 Nm
74040052	KSK-4052	Cassette 52 mm	KS-58	585 - 5.850 Nm

Item number	Name	Description	Torque wrench	Torque
74040054	KSK-4054	Cassette 54 mm	KS-58	585 - 5.850 Nm
74040055	KSK-4055	Cassette 55 mm	KS-58	585 - 5.850 Nm
74040057	KSK-4057	Cassette 57 mm	KS-58	585 - 5.850 Nm
74040059	KSK-4059	Cassette 59 mm	KS-58	585 - 5.850 Nm
74040060	KSK-4060	Cassette 60 mm	KS-58	585 - 5.850 Nm
74040062	KSK-4062	Cassette 62 mm	KS-58	585 - 5.850 Nm
74040063	KSK-4063	Cassette 63 mm	KS-58	585 - 5.850 Nm
74040065	KSK-4065	Cassette 65 mm	KS-58	585 - 5.850 Nm
74040067	KSK-4067	Cassette 67 mm	KS-64	645 - 6.475 Nm
74040068	KSK-4068	Cassette 68 mm	KS-64	645 - 6.475 Nm
74040070	KSK-4070	Cassette 70 mm	KS-64	645 - 6.475 Nm
74040071	KSK-4071	Cassette 71 mm	KS-64	645 - 6.475 Nm
74040073	KSK-4073	Cassette 73 mm	KS-64	645 - 6.475 Nm
74040075	KSK-4075	Cassette 75 mm	KS-64	645 - 6.475 Nm
74040077	KSK-4077	Cassette 77 mm	KS-64	645 - 6.475 Nm
74040078	KSK-4078	Cassette 78 mm	KS-64	645 - 6.475 Nm
74040080	KSK-4080	Cassette 80 mm	KS-64	645 - 6.475 Nm
74080041	KSK-8041	Cassette 41 mm	KS-109	1.095 - 10.940 Nm
74080046	KSK-8046	Cassette 46 mm	KS-109	1.095 - 10.940 Nm
74080048	KSK-8048	Cassette 48 mm	KS-109	1.095 - 10.940 Nm
74080049	KSK-8049	Cassette 49 mm	KS-109	1.095 - 10.940 Nm
74080050	KSK-8050	Cassette 50 mm	KS-109	1.095 - 10.940 Nm
74080052	KSK-8052	Cassette 52 mm	KS-109	1.095 - 10.940 Nm
74080054	KSK-8054	Cassette 54 mm	KS-109	1.095 - 10.940 Nm
74080055	KSK-8055	Cassette 55 mm	KS-109	1.095 - 10.940 Nm
74080057	KSK-8057	Cassette 57 mm	KS-109	1.095 - 10.940 Nm
74080059	KSK-8059	Cassette 59 mm	KS-109	1.095 - 10.940 Nm
74080060	KSK-8060	Cassette 60 mm	KS-109	1.095 - 10.940 Nm
74080062	KSK-8062	Cassette 62 mm	KS-109	1.095 - 10.940 Nm
74080063	KSK-8063	Cassette 63 mm	KS-109	1.095 - 10.940 Nm
74080065	KSK-8065	Cassette 65 mm	KS-109	1.095 - 10.940 Nm
74080067	KSK-8067	Cassette 67 mm	KS-109	1.095 - 10.940 Nm
74080068	KSK-8068	Cassette 68 mm	KS-109	1.095 - 10.940 Nm
74080070	KSK-8070	Cassette 70 mm	KS-109	1.095 - 10.940 Nm
74080071	KSK-8071	Cassette 71 mm	KS-109	1.095 - 10.940 Nm
74080073	KSK-8073	Cassette 73 mm	KS-109	1.095 - 10.940 Nm
74080075	KSK-8075	Cassette 75 mm	KS-109	1.095 - 10.940 Nm
74080077	KSK-8077	Cassette 77 mm	KS-109	1.095 - 10.940 Nm
74080078	KSK-8078	Cassette 78 mm	KS-109	1.095 - 10.940 Nm
74080080	KSK-8080	Cassette 80 mm	KS-109	1.095 - 10.940 Nm
74080081	KSK-8081	Cassette 81 mm	KS-109	1.095 - 10.940 Nm
74080083	KSK-8083	Cassette 83 mm	KS-109	1.095 - 10.940 Nm
74080084	KSK-8084	Cassette 84 mm	KS-109	1.095 - 10.940 Nm
74080085	KSK-8085	Cassette 85 mm	KS-109	1.095 - 10.940 Nm

Item number	Name	Description	Torque wrench	Torque
74080087	KSK-8087	Cassette 87 mm	KS-109	1.095 - 10.940 Nm
74080089	KSK-8089	Cassette 89 mm	KS-109	1.095 - 10.940 Nm
74080090	KSK-8090	Cassette 90 mm	KS-109	1.095 - 10.940 Nm
74080091	KSK-8091	Cassette 91 mm	KS-109	1.095 - 10.940 Nm
74080092	KSK-8092	Cassette 92 mm	KS-109	1.095 - 10.940 Nm
74080094	KSK-8094	Cassette 94 mm	KS-109	1.095 - 10.940 Nm
74080095	KSK-8095	Cassette 95 mm	KS-109	1.095 - 10.940 Nm
74080097	KSK-8097	Cassette 97 mm	KS-117	1.175 - 11.775 Nm
74080099	KSK-8099	Cassette 99 mm	KS-117	1.175 - 11.775 Nm
74080100	KSK-8100	Cassette 100 mm	KS-117	1.175 - 11.775 Nm
74140050	KSK-14050	Cassette 50 mm	KS-185	1.850 - 18.500 Nm
74140055	KSK-14055	Cassette 55 mm	KS-185	1.850 - 18.500 Nm
74140062	KSK-14062	Cassette 62 mm	KS-185	1.850 - 18.500 Nm
74140063	KSK-14063	Cassette 63 mm	KS-185	1.850 - 18.500 Nm
74140065	KSK-14065	Cassette 65 mm	KS-185	1.850 - 18.500 Nm
74140067	KSK-14067	Cassette 67 mm	KS-185	1.850 - 18.500 Nm
74140068	KSK-14068	Cassette 68 mm	KS-185	1.850 - 18.500 Nm
74140070	KSK-14070	Cassette 70 mm	KS-185	1.850 - 18.500 Nm
74140071	KSK-14071	Cassette 71 mm	KS-185	1.850 - 18.500 Nm
74140073	KSK-14073	Cassette 73 mm	KS-185	1.850 - 18.500 Nm
74140075	KSK-14075	Cassette 75 mm	KS-185	1.850 - 18.500 Nm
74140077	KSK-14077	Cassette 77 mm	KS-185	1.850 - 18.500 Nm
74140080	KSK-14080	Cassette 80 mm	KS-185	1.850 - 18.500 Nm
74140081	KSK-14081	Cassette 81 mm	KS-185	1.850 - 18.500 Nm
74140083	KSK-14083	Cassette 83 mm	KS-185	1.850 - 18.500 Nm
74140084	KSK-14084	Cassette 84 mm	KS-185	1.850 - 18.500 Nm
74140085	KSK-14085	Cassette 85 mm	KS-185	1.850 - 18.500 Nm
74140087	KSK-14087	Cassette 87 mm	KS-185	1.850 - 18.500 Nm
74140089	KSK-14089	Cassette 89 mm	KS-185	1.850 - 18.500 Nm
74140090	KSK-14090	Cassette 90 mm	KS-185	1.850 - 18.500 Nm
74140091	KSK-14091	Cassette 91 mm	KS-185	1.850 - 18.500 Nm
74140092	KSK-14092	Cassette 92 mm	KS-185	1.850 - 18.500 Nm
74140094	KSK-14094	Cassette 94 mm	KS-185	1.850 - 18.500 Nm
74140095	KSK-14095	Cassette 95 mm	KS-185	1.850 - 18.500 Nm
74140097	KSK-14097	Cassette 97 mm	KS-185	1.850 - 18.500 Nm
74140099	KSK-14099	Cassette 99 mm	KS-185	1.850 - 18.500 Nm
74140100	KSK-14100	Cassette 100 mm	KS-185	1.850 - 18.500 Nm
74140102	KSK-14102	Cassette 102 mm	KS-185	1.850 - 18.500 Nm
74140103	KSK-14103	Cassette 103 mm	KS-185	1.850 - 18.500 Nm
74140105	KSK-14105	Cassette 105 mm	KS-185	1.850 - 18.500 Nm
74140106	KSK-14106	Cassette 106 mm	KS-185	1.850 - 18.500 Nm
74140108	KSK-14108	Cassette 108 mm	KS-185	1.850 - 18.500 Nm
74140110	KSK-14110	Cassette 110 mm	KS-185	1.850 - 18.500 Nm
74140111	KSK-14111	Cassette 111 mm	KS-185	1.850 - 18.500 Nm

Item number	Name	Description	Torque wrench	Torque
74140113	KSK-14113	Cassette 113 mm	KS-185	1.850 - 18.500 Nm
74140114	KSK-14114	Cassette 114 mm	KS-185	1.850 - 18.500 Nm
74140115	KSK-14115	Cassette 115 mm	KS-185	1.850 - 18.500 Nm
74140116	KSK-14116	Cassette 116 mm	KS-185	1.850 - 18.500 Nm
74140117	KSK-14117	Cassette 117 mm	KS-185	1.850 - 18.500 Nm
74300080	KSK-30080	Cassette 80 mm	KS-418	4.180 - 41.800 Nm
74300081	KSK-30081	Cassette 81 mm	KS-418	4.180 - 41.800 Nm
74300083	KSK-30083	Cassette 83 mm	KS-418	4.180 - 41.800 Nm
74300084	KSK-30084	Cassette 84 mm	KS-418	4.180 - 41.800 Nm
74300085	KSK-30085	Cassette 85 mm	KS-418	4.180 - 41.800 Nm
74300087	KSK-30087	Cassette 87 mm	KS-418	4.180 - 41.800 Nm
74300089	KSK-30089	Cassette 89 mm	KS-418	4.180 - 41.800 Nm
74300090	KSK-30090	Cassette 90 mm	KS-418	4.180 - 41.800 Nm
74300091	KSK-30091	Cassette 91 mm	KS-418	4.180 - 41.800 Nm
74300092	KSK-30092	Cassette 92 mm	KS-418	4.180 - 41.800 Nm
74300094	KSK-30094	Cassette 94 mm	KS-418	4.180 - 41.800 Nm
74300095	KSK-30095	Cassette 95 mm	KS-418	4.180 - 41.800 Nm
74300097	KSK-30097	Cassette 97 mm	KS-418	4.180 - 41.800 Nm
74300099	KSK-30099	Cassette 99 mm	KS-418	4.180 - 41.800 Nm
74300100	KSK-30100	Cassette 100 mm	KS-418	4.180 - 41.800 Nm
74300102	KSK-30102	Cassette 102 mm	KS-418	4.180 - 41.800 Nm
74300103	KSK-30103	Cassette 103 mm	KS-418	4.180 - 41.800 Nm
74300105	KSK-30105	Cassette 105 mm	KS-418	4.180 - 41.800 Nm
74300106	KSK-30106	Cassette 106 mm	KS-418	4.180 - 41.800 Nm
74300108	KSK-30108	Cassette 108 mm	KS-418	4.180 - 41.800 Nm
74300110	KSK-30110	Cassette 110 mm	KS-418	4.180 - 41.800 Nm
74300111	KSK-30111	Cassette 111 mm	KS-418	4.180 - 41.800 Nm
74300113	KSK-30113	Cassette 113 mm	KS-418	4.180 - 41.800 Nm
74300114	KSK-30114	Cassette 114 mm	KS-418	4.180 - 41.800 Nm
74300115	KSK-30115	Cassette 115 mm	KS-418	4.180 - 41.800 Nm
74300116	KSK-30116	Cassette 116 mm	KS-418	4.180 - 41.800 Nm
74300117	KSK-30117	Cassette 117 mm	KS-418	4.180 - 41.800 Nm
74300119	KSK-30119	Cassette 119 mm	KS-418	4.180 - 41.800 Nm
74300120	KSK-30120	Cassette 120 mm	KS-418	4.180 - 41.800 Nm
74300122	KSK-30122	Cassette 122 mm	KS-418	4.180 - 41.800 Nm
74300123	KSK-30123	Cassette 123 mm	KS-418	4.180 - 41.800 Nm
74300124	KSK-30124	Cassette 124 mm	KS-418	4.180 - 41.800 Nm
74300125	KSK-30125	Cassette 125 mm	KS-418	4.180 - 41.800 Nm
74300127	KSK-30127	Cassette 127 mm	KS-418	4.180 - 41.800 Nm
74300129	KSK-30129	Cassette 129 mm	KS-418	4.180 - 41.800 Nm
74300130	KSK-30130	Cassette 130 mm	KS-418	4.180 - 41.800 Nm
74300132	KSK-30132	Cassette 132 mm	KS-418	4.180 - 41.800 Nm
74300133	KSK-30133	Cassette 133 mm	KS-418	4.180 - 41.800 Nm
74300135	KSK-30135	Cassette 135 mm	KS-418	4.180 - 41.800 Nm

Item number	Name	Description	Torque wrench	Torque
74300137	KSK-30137	Cassette 137 mm	KS-418	4.180 - 41.800 Nm
74300138	KSK-30138	Cassette 138 mm	KS-418	4.180 - 41.800 Nm
74300140	KSK-30140	Cassette 140 mm	KS-418	4.180 - 41.800 Nm
74300141	KSK-30141	Cassette 141 mm	KS-418	4.180 - 41.800 Nm
74300143	KSK-30143	Cassette 143 mm	KS-418	4.180 - 41.800 Nm
74300144	KSK-30144	Cassette 144 mm	KS-418	4.180 - 41.800 Nm
74300145	KSK-30145	Cassette 145 mm	KS-418	4.180 - 41.800 Nm
74300146	KSK-30146	Cassette 146 mm	KS-418	4.180 - 41.800 Nm
74300148	KSK-30148	Cassette 148 mm	KS-418	4.180 - 41.800 Nm
74300149	KSK-30149	Cassette 149 mm	KS-418	4.180 - 41.800 Nm
74300150	KSK-30150	Cassette 150 mm	KS-418	4.180 - 41.800 Nm
74300151	KSK-30151	Cassette 151 mm	KS-418	4.180 - 41.800 Nm
74300152	KSK-30152	Cassette 152 mm	KS-418	4.180 - 41.800 Nm
74300154	KSK-30154	Cassette 154 mm	KS-418	4.180 - 41.800 Nm
74300155	KSK-30155	Cassette 155 mm	KS-418	4.180 - 41.800 Nm
74300160	KSK-30160	Cassette 160 mm	KS-445	4.450 - 44.500 Nm
74300165	KSK-30165	Cassette 165 mm	KS-445	4.450 - 44.500 Nm
74300170	KSK-30170	Cassette 170 mm	KS-445	4.450 - 44.500 Nm
74300175	KSK-30175	Cassette 175 mm	KS-445	4.450 - 44.500 Nm



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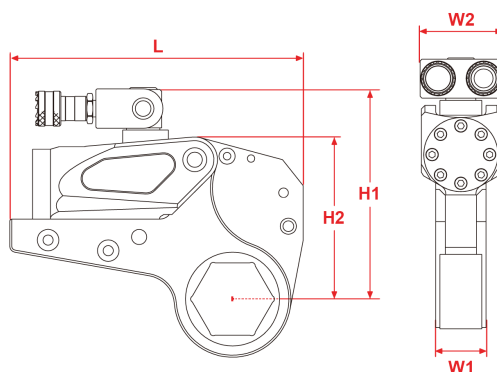
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JUWEL KS-Series Hydraulic Torque Wrench

- Constant repeatability of +/- 3%
- Torques from 230 to 44,500 Nm
- Cassettes available in sizes from 19 to 175 mm
- Can be used with square and hexagonal drives
- Ideal for heavy duty applications
- Simple drive assembly
- Everything from a single source: pumps, hoses and reducers available



Technical Data



Typ/Type	KS-23	KS-24	KS-58	KS-64	KS-109	KS-117	KS-185	KS-418	KS-445
Drehmoment/Torque (Nm)	230-2.300	240-2.400	585-5.850	645-6.475	1.095-10.940	1.175-11.775	1.850-18.500	4.180-41.800	4.450-44.500
Gewicht Gehäuse/Weight piston (kg)	1	1	2	2	3,3	3,3	5,5	11,4	11,4
Gewicht Kassette/Weight cassette (kg)	1,6	1,7	4,4	4,6	8,0	8,4	11,6	29	30
H1 (mm)	126	128,5	177	187	207	216	239	303	315
H2 (mm)	102,5	105	138	146	169	178	204	272	285
L (mm)	196	196	245	246	300	301	361	430	441
Sechskant/Hexagon (mm)	19-55	60	34-65	70-80	41-95	100-105	50-117	85-155	160-175
W1 (mm)	32	32	42	42	53	53	64	85	85
W2 (mm)	51	51	66	66	83	83	99	131	131



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JUWEL TESM-Series Electric Torque Wrench

- Torque range from 150 to 5,000 Nm
- Standard (XX4) or heavy-duty (XX5) version with modular gearbox design (see dimensional drawing)
- 2-speed right/left gearbox with a total of 200 torque steps and repeat accuracy of $\pm 3.5\%$
- Available as 230 or 110 volt version
- Drive unit freely rotatable through 360°
- Optional: With load release, the unit rotates a small number of degrees in the opposite direction after successful screwing for easier loosening of the impact socket from the screw
- Reaction arm made of high-strength investment casting - individual designs also possible on request thanks to in-house CNC production



Subject to technical changes and errors.

Technical Data



Special-Feature: Two devices in one: Stepless locking of the control unit enables use as a straight or angled torque wrench according to your environment

Typ/Type	TESM-84	TESM-104/105	TESM-244/245	TESM-354/355	TESM-505
Antriebsvierkant/Square drive A	3/4" / 1"	1"	1"	1 1/2"	1 1/2"
Artikelnummer Schwerlast/ Item number heavy load	-	50 105 113	50 245 123	50 355 133	50 505 140
Artikelnummer Standard/ Item number standard	50 084 103	50 104 113	50 244 123	50 354 133	-
Drehmoment/Torque (Nm)	150 - 850	280 - 1.200	360 - 2.500	360 - 3.500	700 - 5.000
Gewicht Abstützung/ Weight reaction arm (kg)	1.6	1.6	1.6	3.5	3.5
Gewicht Standard/ Weight Standard (kg)	9,8/10	10	12.5	13.4	-
Gewicht Schwerlast/ Weight heavy load (kg)	-	11.1	13.6	14.5	16.7
Höhe/Height C (mm)	55-75	75	75	95	95
Höhe/Height H (mm)	265/275	275	305	315	365
Leerlaufdrehzahl (U/min)/ Idle speed (r/min)	16	14	10	9	3
Ø Getriebe Schwerlast/ Gear heavy load D (mm)	-	99	99	99	99
Ø Getriebe Standard/ Gear standard D (mm)	88	88	88	88	-

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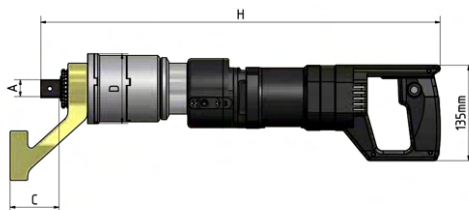
JUWEL TES-Series Electric Torque Wrench

- Torque range from 150 to 15,000 Nm
- Standard (XX4) or heavy-duty (XX5) version with modular gearbox design (see dimensional drawing)
- 2-speed right/left gearbox with a total of 200 torque steps and repeat accuracy of 3.5%
- Available as 230 or 110 volt version
- Drive unit freely rotatable through 360°
- Optional: With load release, the unit rotates a small number of degrees in the opposite direction after successful screwing for easier loosening of the impact socket from the screw
- Reaction arm made of high-strength investment casting - individual designs also possible on request thanks to in-house CNC production



Subject to technical changes and errors.

Technical Data



Typ/Type	TES-84	TES-104/105	TES-244/245	TES-354/355	TES-505	TES-604/605	TES-904/905	TES-1205	TES-1505
Antriebsvierkant/Square drive A	3/4" / 1"	1"	1"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	2 1/2"
Artikelnummer Schwerlast/ Item number heavy load	-	50 105 110	50 245 120	50 355 130	50 505 140	50 605 150	50 905 160	50 915 170	50 915 180
Artikelnummer Standard/ Item number standard	50 084 100	50 104 110	50 244 120	50 354 130	-	50 604 150	50 904 160	-	-
Drehmoment/Torque (Nm)	150 - 850	280 - 1.200	360 - 2.500	360 - 3.500	700 - 5.000	816 - 6.000	1.024 - 10.000	1.024 - 12.000	1.440 - 15.000
Gewicht Abstützung/ Weight reaction arm (kg)	1.6	1.6	1.6	3.5	3.5	5.7	5.7	5.7	11
Gewicht Standard/ Weight Standard (kg)	8/8,2	8.2	9.5	10.4	-	15.9	18.9	-	-
Gewicht Schwerlast/ Weight heavy load (kg)	-	9.2	10.6	11.5	13.7	16.9	20.5	29	36
Höhe/Height C (mm)	55-75	75	75	95	95	110	110	115	145
Höhe/Height H (mm)	530/540	540	570	580	650	635	680	680	695
Leerlaufdrehzahl (U/min)/ Idle speed (r/min)	16	14	10	9	3	6.5	2.5	2	2
Ø Getriebe Schwerlast/ Gear heavy load D (mm)	-	99	99	99	99	135	135	172	172
Ø Getriebe Standard/ Gear standard D (mm)	88	88	88	88	-	130	130	-	-

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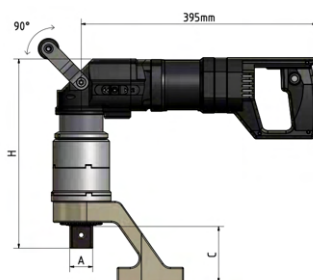
JUWEL TEWS-Series Electric Torque Wrench

- Available in the torque range from 150 to 15,000 Nm
- Choose between standard and heavy load version with modular gearbox mountings (see dimensional drawing)
- 2-speed transmission right/left with a total of 200 torque settings and repeat accuracy of $\pm 3.5\%$
- Available as 230 or 110 volt version
- Drive unit freely rotatable through 360°
- Optional: With the help of the load release, the device rotates a small number of degrees in the opposite direction after successful screwing. This makes it easier to remove the socket from the screw.
- Standard support made of high-strength investment casting - new designs also possible on request thanks to in-house production at low cost



Subject to technical changes and errors.

Technical Data



Typ/Type	TEWS-84	TEWS-104/105	TEWS-244/245	TEWS-354/355	TEWS-505	TEWS-604/605	TEWS-904/905	TEWS-1205	TEWS-1505
Antriebsvierkant/Square drive A	3/4" / 1"	1"	1"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	2 1/2"
Artikelnummer Schwerlast/Item number heavy load	-	51 105 210	51 245 220	51 355 230	51 505 240	51 605 250	51 905 270	51 915 270	51 925 280
Artikelnummer Standard/Item number standard	51 084 200	51 104 210	51 244 220	51 354 230	-	51 604 250	51 904 260	-	-
Drehmoment/Torque (Nm)	150 - 850	280 - 1.200	360 - 2.500	360 - 3.500	700 - 5.000	816 - 6.000	1.024 - 10.000	1.024 - 12.000	1.440 - 15.000
Gewicht Abstützung/Weight reaction arm (kg)	1.6	1.6	1.6	3.5	3.5	5.7	5.7	5.7	Auf Anfrage/On request
Gewicht Standard/Weight Standard (kg)	9.5	9.9	11.5	12.3	-	18	20.8	-	
Gewicht Schwerlast/Weight heavy load (kg)	-	11	12.5	13.3	15.5	18.8	22.4	31	
Höhe/Height C (mm)	55-75	75	75	95	95	110	110	115	
Höhe/Height H (mm)	265/275	275	305	315	365	350	390	400	
Leerlaufdrehzahl (U/min)/Idle speed (r/min)	16	14	10	9	3	6.5	2.5	2	
Ø Getriebe Schwerlast/Gear heavy load D (mm)	-	99	99	99	99	135	135	172	
Ø Getriebe Standard/Gear standard D (mm)	88	88	88	88	-	130	130	-	

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JUWEL TLM-Series

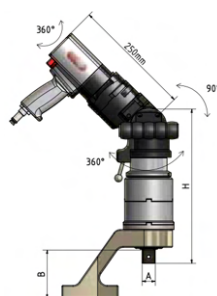
Pneumatic Torque Wrench

- ° Torque range from 150 to 5,000 Nm
- ° Standard (XX4) or heavy loadversion (XX5) with modular gearbox design (see dimensional drawing)
- ° High degree of working ergonomics thanks to vibration-free and low-noise application behaviour
- ° Repeat accuracy of +/- 5% for the same bolting operation
- ° 2-speed right/left gearbox with a total of 44 torque steps
- ° Drive unit freely rotatable through 360°
- ° Support made of high-strength investment casting - individual designs also possible on request thanks to in-house CNC manufacturing



Subject to technical changes and errors.

Technical Data



Special function: Two tools in one: Stepless locking of the control unit allows all variations between a straight and angled torque wrench.

Typ/Type	TLM-84	TLM-104/105	TLM-244/245	TLM-354/355	TLM-505
Antriebsvierkant/Square drive A	3/4" / 1"	1"	1"	1 1/2"	1 1/2"
Artikelnummer Schwerlast/ Item number heavy load	-	58 105 310	58 245 320	58 355 330	58 505 340
Artikelnummer Standard/ Item number standard	50 084 300	58 104 310	58 244 320	58 354 330	-
Drehmoment/Torque (Nm)	40 - 880	40 - 1.200	70 - 2.500	70 - 4.000	100 - 5.000
Gewicht Abstützung/ Weight reaction arm (kg)	1.6	1.6	1.6	3.5	3.5
Gewicht Standard/ Weight Standard (kg)	9/9,5	9.5	9.5	10.5	-
Gewicht Schwerlast/ Weight heavy load (kg)	-	10.6	10.6	11.6	12.6
Höhe/Height C (mm)	55/75	75	75	95	95
Höhe/Height H (mm)	250/270	270	300	330	360
Leerlaufdrehzahl (U/min)/ Idle speed (r/min)	19	19	8.5	7.5	2
Ø Getriebe Schwerlast/ Gear heavy load D (mm)	-	99	99	99	99
Ø Getriebe Standard/ Gear standard D (mm)	88	88	88	88	-

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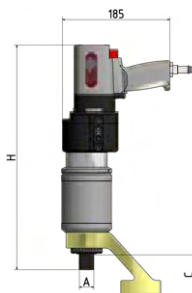
JUWEL TL-Series Pneumatic Torque Wrench

- Torque range from 40 to 15,000 Nm
- Standard (XX4) or heavy loadversion (XX5) with modular gearbox design
- High degree of working ergonomics thanks to vibration-free and low-noise application behaviour
- Repeat accuracy of +/- 5% for the same bolting operation
- 2-speed right/left gearbox with a total of 44 torque steps
- Drive unit freely rotatable through 360°
- Support made of high-strength investment casting - individual designs also possible on request thanks to in-house CNC manufacturing

Subject to technical changes and errors.



Technical Data



Typ/Type	TL-84	TL-104/105	TL-244/245	TL-354/355	TL-505	TL-604/605	TL-904/905	TL-1205	TL-1505
Antriebsvierkant/Square drive A	3/4" / 1"	1"	1"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	2 1/2"
Artikelnummer Schwerlast/ Item number heavy load	-	56 105 000	56 245 000	56 355 000	56 505 000	56 605 000	56 905 000	56 120 000	56 915 000
Artikelnummer Standard/ Item number standard	56 084 000	56 104 000	56 244 000	56 354 000	-	56 604 000	56 904 000	-	-
Drehmoment/Torque (Nm)	40 - 880	40 - 1.200	70 - 2.500	70 - 4.000	100 - 5.000	400 - 6.000	450 - 10.000	600 - 12.000	600 - 15.000
Gewicht Abstützung/ Weight reaction arm (kg)	1,6	1,6	1,6	3,5	3,5	5,7	5,7	5,7	11
Gewicht Standard/ Weight Standard (kg)	6	7	7	8	-	12	16	-	-
Gewicht Schwerlast/ Weight heavy load (kg)	-	8	8	9	9	13	17,6	18	34
Höhe/Height C (mm)	55 - 75	75	75	95	95	110	110	115	145
Höhe/Height H (mm)	360	360	410	410	460	420	460	470	500
Leerlaufdrehzahl (U/min)/ Idle speed (r/min)	19	19	7,5	7,5	2	2,8	1,8	1,8	2
Ø Getriebe Schwerlast/ Gear heavy load D (mm)	-	99	99	99	99	135	135	172	175
Ø Getriebe Standard/ Gear standard D (mm)	88	88	88	88	-	130	130	-	-

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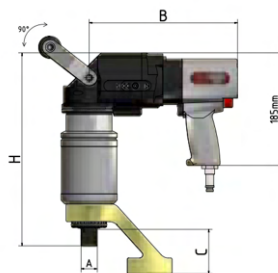
JUWEL TLW-Series Pneumatic Torque Wrench

- Torque range from 40 to 15,000 Nm
- Standard (XX4) or heavy loadversion (XX5) with modular gearbox design (see dimensional drawing)
- High degree of working ergonomics thanks to vibration-free and low-noise application behaviour
- Repeat accuracy of +/- 5% for the same bolting operation
- 2-speed right/left gearbox with a total of 44 torque steps
- Drive unit freely rotatable through 360°
- Support made of high-strength investment casting - individual designs also possible on request thanks to in-house CNC manufacturing



Subject to technical changes and errors.

Technical Data



Typ/Type	TLW-84	TLW-104/105	TLW-244/245	TLW-354/355	TLW-505	TLW-604/605	TLW-904/905	TLW-1205	TLW-1505
Antriebsvierkant/Square drive A	3/4" / 1"	1"	1"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	2 1/2"
Artikelnummer Schwerlast/ Item number heavy load	-	57 105 000	57 245 000	57 355 000	57 505 000	57 605 000	57 905 000	57 125 000	Auf Anfrage/ On request
Artikelnummer Standard/ Item number standard	57 084 000	57 104 000	57 244 000	57 354 000	-	57 604 000	57 904 000	-	
Drehmoment/Torque (Nm)	40 - 880	40 - 1.200	70 - 2.500	70 - 4.000	100 - 5.000	400 - 6.000	450 - 10.000	600 - 12.000	
Gewicht Abstützung/ Weight reaction arm (kg)	1.6	1.6	1.6	3.5	3.5	5.7	5.7	5.7	
Gewicht Standard/ Weight Standard (kg)	7	8	8	9	-	13	17	-	
Gewicht Schwerlast/ Weight heavy load (kg)	-	9	8.1	10.1	11	14	18.6	19	
Höhe/Height C (mm)	55-75	75	75	95	95	110	110	115	
Höhe/Height H (mm)	270	270	300	320	350	340	380	390	
Leerlaufdrehzahl (U/min)/ Idle speed (r/min)	19	19	7.5	7.5	2	2.8	1.8	1.8	
Ø Getriebe Schwerlast/ Gear heavy load D (mm)	-	99	99	99	99	135	135	172	
Ø Getriebe Standard/ Gear standard D (mm)	88	88	88	88	-	130	130	-	

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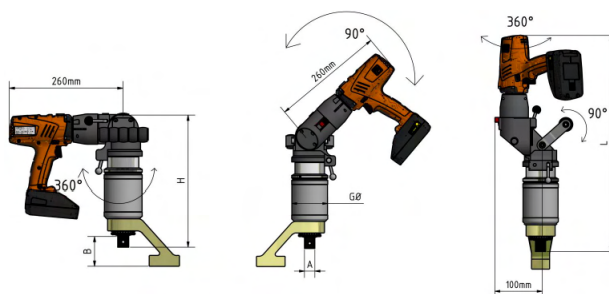
JUWEL TQSM-Series Battery-operated Torque Gun

- Torque range from 100 to 5,000 Nm
- Multi-design enables maximum flexibility
- Brushless PowerDrive motor
- Lithium-ion battery with SafetyCell Technology (6 Ah)
- Planetary gears are developed and manufactured 100% in Germany in our own company
- Thanks to the quick-charger, batteries can be fully charged in less than 30 minutes
- 4 gears with 15 torque levels each
- High speeds for precise and fast screwing
- Equipped with additional handle for better handling
- Reaction arm made of high-strength investment casting - customised versions also possible on request thanks to our own CNC manufacture



Subject to technical changes and errors.

Technical Data



Special-Feature

Two tools in one:
Stepless locking
of the control unit
allows all variations
between a straight
and angled torque
wrench.

Typ/Type	TQSM-065	TQSM-095	TQSM-130	TQSM-220	TQSM-300	TQSM-400	TQSM-500
Antriebsvierkant/Square drive A	3/4"	3/4" / 1"	1"	1"	1"	1 1/2"	1 1/2"
Artikelnummer/Item number	62 200 065	62 200 095	62 200 130	62 200 220	62 200 300	62 200 400	62 200 500
Drehmoment/Torque (Nm)	100 - 650	100 - 950	100 - 1.300	100 - 2.200	100 - 3.000	150 - 4.000	250 - 5.000
Drehzahl 1. Gang (U/min)/ Speed 1st gear (r/min)	8	7.5	4.25	2.1	1.2	1.25	0.5
Drehzahl 2. Gang (U/min)/ Speed 2nd gear (r/min)	16	15.5	8.5	4.2	2.5	2.5	0.9
Drehzahl 3. Gang (U/min)/ Speed 3rd gear (r/min)	36	35	20	8.5	6	5.5	2
Drehzahl 4. Gang (U/min)/ Speed 4th gear (r/min)	70	36	39	18	12	11	4
Gewicht Abstützung/ Weight reaction arm (kg)	0.5	0.7	1.7	1.7	1.7	3.5	3.5
Gewicht/Weight (kg)	7	9	9.1	10.4	10.5	12.7	13.9
Länge/Length L (mm)	500	510	510	530	530	555	605
Höhe/Height H (mm)	275	285	285	305	305	330	380
Weite/Width B (mm)	55	55/75	75	75	75	95	95
Ø Getriebe/Gear D (mm)	75	75	88	88	88	99	99
Ø Verriegelung/Locking (mm)	90	90	90	90	90	90	90

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JUWEL TQS-Series

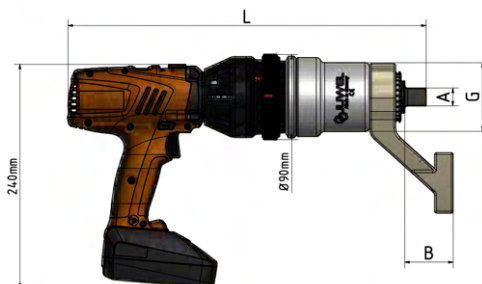
Battery-operated Torque Gun

- Torque range from 100 to 10,000 Nm
- Brushless PowerDrive motor
- Lithium-ion battery with SafetyCell Technology (6 Ah)
- Planetary gears are developed and manufactured 100% in Germany in our own company
- Thanks to the quick-charger, batteries can be fully charged in less than 30 minutes
- 4 gears with 15 torque levels each
- High speeds for precise and fast screwing
- From model TQS-400 equipped with additional handle for better handling
- Reaction arm made of high-strength investment casting - customised versions also possible on request thanks to our own CNC manufacture



Subject to technical changes and errors.

Technical Data



Typ/Type	TQS-065	TQS-095	TQS-130	TQS-220	TQS-300	TQS-400	TQS-500	TQS-600	TQS-700	TQS-800-1000
Antriebsvierkant/Square drive A	3/4"	3/4" / 1"	1"	1"	1"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	
Artikelnummer/Item number	62 000 065	62 000 095	62 000 130	62 000 220	62 000 300	62 000 400	62 000 500	62 000 600	62 000 700	
Drehmoment/Torque (Nm)	100 - 650	100 - 950	100 - 1.300	100 - 2.200	100 - 3.000	150 - 4.000	250 - 5.000	350 - 6.000	450 - 7.000	Max. 10.000
Drehzahl 1. Gang (U/min)/Speed 1st gear (r/min)	8	7.5	4.25	2.1	1.2	1.25	1.25	1	0.75	
Drehzahl 2. Gang (U/min)/Speed 2nd gear (r/min)	16	15.5	8.5	4.2	2.5	2.5	2.5	2	1.5	
Drehzahl 3. Gang (U/min)/Speed 3rd gear (r/min)	36	35	20	8.5	6	5.5	5.5	4	3.5	
Drehzahl 4. Gang (U/min)/Speed 4th gear (r/min)	70	36	39	18	12	11	11	8	7	
Gewicht Abstützung/Weight reaction arm (kg)	0.5	0.7	1.7	1.7	1.7	3.5	3.5	5.5	5.5	Auf Anfrage/ On request
Gewicht/Weight (kg)	4.75	6.8	7.2	8.2	8.3	10.5	12.5	16	16	
Länge/Length H (mm)	380	390 / 395	380	420	420	435	475	455	455	
Weite/Width B (mm)	55	55/75	75	75	75	95	95	115	115	
Ø Getriebe/Gear D (mm)	75	75	88	88	88	99	99	135	135	
Ø Verriegelung/Locking (mm)	90	90	90	90	90	90	90	90	90	

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BATTERY DIGITAL

Bolting meets Industry 4.0 - with the TQX series, the **JUWEL** brand is taking off digitally. With torques of up to 10,000 Nm, bolting operations can now be documented and evaluated sustainably.

With the TQX series we use two different digital drives: Up to 900 Nm we use a 20V drive - weight-optimised and light in the hand, the torque wrenches up to 900 Nm are ideal for daily assembly work. Above this torque value, we use a 40V drive: The flange adapted to the powerful gearboxes, the possibility to attach to a balancer and the usual **JUWEL** quality of gearbox technology make the TQX a high-end product around bolting. The functions are versatile: In addition to the use of the digital torque wrench, it is also possible to connect a central storage unit. In this way, the data of several TQX units can be stored.

TECHNOLOGY

- Torques from 50 to 10,000 Nm
- Extreme measuring accuracy by means of strain gauges
- Digital display for setting the torque/angle of rotation and programme selection
- Documentation of up to 1,200 bolting data (First-In-First-Out)
- Data transmission via Wi-Fi, Bluetooth or USB cable (optional with central control unit)
- App for Android/iOS devices and software for PC/laptop
- Up to 8 fixed programme steps (P1-P8) manually configurable
- Password protection adjustable
- Brushless motor



More info about this product

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Werkstraße 14
57537, Wissen, Germany

TQX 20V - FOR 900 Nm



Easy to use and versatile in its possibilities: the TQX is a true all-rounder when it comes to digital and documented bolting. You can bolt up to 900 Nm with the 20V version of the TQX. A low weight with the same technical possibilities meets the demand for assembly tools with low torques in terms of handling and functions. With the targeted use of aluminium components, additional weight is saved on power wrenches up to 900 Nm. Like the TQS, the TQX is available in straight, angled and multi versions.

Inquire now: sales@juwel-schraubtechnik.de

TQX 40V - FOR 10.000 Nm

Beyond 900 Nm, the 40V version of the TQX drive is used. The pre-equipment for attachment to a balancer and the robustly designed flange ensure safe handling even at high torques.

Thanks to the latest battery technology, you can screw up to 10,000 Nm smoothly and steadily. You can rely on the gear technology without the slightest worry: The planetary gear, which is also used in the other **JUWEL** devices, rounds off the TQX as a high-quality digital power wrench. We would be happy to offer you training on the functions of the TQX as part of a personal delivery.



TECHNICAL FEATURES



DOCUMENTATION OF SCREW DATA

Up to 1,200 bolting data are stored in the unit according to the first-in-first-out principle. The data can then be transferred to a smartphone, PC or storage unit.



TIGHTENING TORQUE

Do you have a target torque? With the TQX you can achieve the targeted torque quickly and accurately. Thanks to the highly accurate strain gauge, the tightening process meets the highest standards.



TIGHTEN ANGLE OF TWIST

In addition to tightening to torque, it is also possible to set a desired angle of rotation (alone or in combination with a required torque).



CUSTOMISED SCREW PROGRAMMES

Up to 8 tightening programmes can be set: e.g. 1,200 Nm and then 20°. The TQX carries out the instructions automatically. Switch conveniently between the programmes on the unit.



PROGRAMMIERUNG VIA SMARTPHONE

Whether Android or iOS smartphone: On the road, you can set up the TQX quickly and intuitively via smartphone. The connection is established via Bluetooth or USB cable.



PROGRAMMING VIA COMPUTER

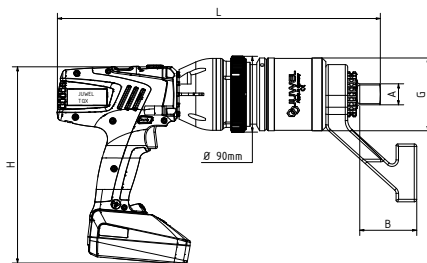
We provide you with the software included with the drive free of charge. You can discover even more features of the TQX series on the computer: Change speeds or threshold torques, for example. We would be happy to train you!



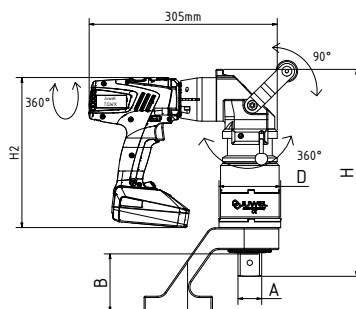
INTERACTION WITH USER

The TQX takes the worry out of successful bolting: If the light is green, everything is OK. If the bolting is aborted or the final torque is outside the tolerance range you have set, the signal lights up yellow and you bolt again.





Models	TQX-060	TQX-090	TQX-130	TQX-220	TQX-300	TQX-400	TQX-500	TQX-600	TQX-1000
Square drive A	1"	3/4" o. 1"	1"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"
Item number	64 000 060	64 000 090	64 000 130	64 000 220	64 000 300	64 400 000	64 500 000	64 600 000	On request
Torque (Nm)	50 - 600	50 - 900	100 - 1.300	100 - 2.200	100 - 3.000	150 - 4.000	250 - 5.000	350 - 6.000	
Speed (r/min)	10	8	16	6,5	4,5	3,8	2	3,3	
Weight reaction arm (kg)	1,6	1,6	1,6	3,5	3,5	5,5	5,5	5,5	
Weight (kg)	4,25	6,3	9,1	10,8	10,8	12,6	14,1	17,6	
Length H (mm)	370	390	415	455	455	470	510	490	
Width B (mm)	55	55/75	75	75	75	95	95	115	
Ø Dear (mm)	75	75	88	88	88	99	99	135	
Ø Locking (mm)	90	90	90	90	90	90	90	90	



Models	TQWX-060	TQWX-090	TQWX-130	TQWX-220	TQWX-300	TQWX-400	TQWX-500	TQWX-600	TQWX-1000
Square drive A	1"	3/4" o. 1"	1"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"
Item number	64 100 060	64 100 090	64 100 130	64 100 220	64 100 300	64 100 400	64 100 500	64 100 600	On request
Torque (Nm)	50 - 600	50 - 900	100 - 1.300	100 - 2.200	100 - 3.000	150 - 4.000	250 - 5.000	350 - 6.000	
Speed (r/min)	10	8	16	6,5	4,5	3,8	2	3,3	
Weight reaction arm (kg)	1,6	1,6	1,6	3,5	3,5	5,5	5,5	5,5	
Weight (kg)	5,5	8,1	9,1	10,8	10,8	12,6	14,1	17,6	
Length H (mm)	264	283 - 288	275	307	307	320	365	355	
Width B (mm)	55	55/75	75	75	75	95	95	115	
Ø Gear D (mm)	75	75	88	88	88	99	99	135	
Ø Locking (mm)	90	90	90	90	90	90	90	90	

CONTACT

Do you have questions about bolting? Do you need a torque wrench or accessories? Contact us - we will be happy to advise you and carry out a free demonstration at your premises.

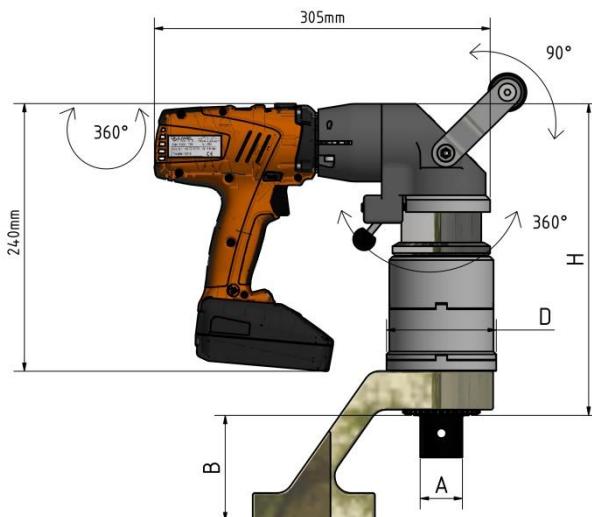


Ernst Berger & Söhne **JUWEL** - Schraubtechnik GmbH

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Technical data | TQWS - series

- 4-gear full metal gear
- Brushless PowerDrive motor with 30% higher efficiency
- Lithium-ion rechargeable battery with SafetyCell Technology
- Drive and electronics are completely dust-protected
- High speeds for precise and quick screwing
- A separate communication line protects the rechargeable battery and tools from overload
- Electronic torque setting
- Visual and acoustic signal when reaching a defined battery charge
- Support of high-strength aluminium
- The rapid charger ensures the battery is fully charged in less than 30 minutes



Typ		TQWS - 095	TQWS - 130	TQWS - 220	TQWS - 300	TQWS - 400	TQWS - 500
Art.- Nummer / Art. No.		62 100 095	62 100 130	62 100 220	62 100 300	62 100 400	62 100 500
Leistungsbereich / torque range		100 - 950 Nm	100 - 1.300 Nm	100 - 2.200 Nm	100 - 3.000 Nm	150 - 4.000Nm	200 - 5.000Nm
Drehzahl / speed	1 Gang / gear	7,7 U/min	4,25 U/min	2,1 U/min	1,2 U/min	1,25 U/min	0,5 U/min
Drehzahl / speed	2 Gang / gear	15 U/min	8,5 U/min	4,2 U/min	2,5 U/min	2,5 U/min	0,9 U/min
Drehzahl / speed	3 Gang / gear	35 U/min	20 U/min	9,5 U/min	6 U/min	5,5 U/min	2,0 U/min
Drehzahl / speed	4 Gang / gear	66 U/min	39 U/min	18 U/min	12 U/min	11 U/min	4,0 U/min
Höhe / height mm	H	260 - 265	262	292	292	304	336
Ø Getriebe / gearbox mm	D	75	88	88	88	99	99
Werkzeugantrieb / square drive		3/4" - 1"	1"	1"	1"	1 1/2"	1 1/2"
Weite (mm) / Width	B	55/75	75	75	75	95	95
Gewicht / weight		8,8 kg	9,3 kg	10,1 kg	10,1 kg	12,0 kg	14,2 kg

Technische Änderungen vorbehalten / Subject to technical changes



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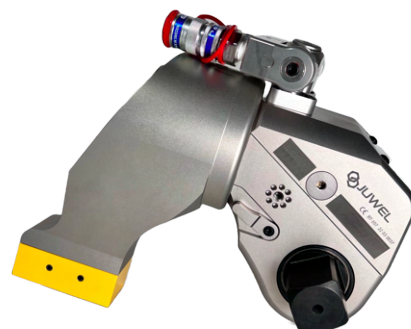
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JUWEL BT-Series

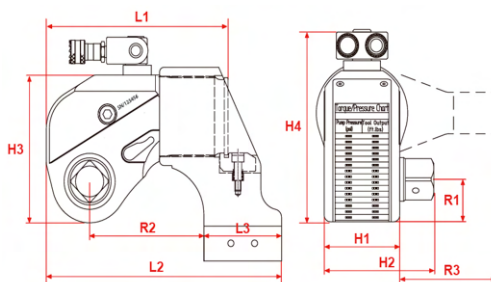
Hydraulic Torque Wrench

- ° Accuracy of +/- 3% for the same bolting case
- ° Torques from 110 to 72,000 Nm
- ° Housing made of robust titanium-aluminium
- ° Square drive easily exchangeable
- ° 360° x 180° rotatable oil inlet ports provide maximum flexibility in handling hydraulic hoses
- ° Torque table engraved on tool
- ° Optional: Matching pumps, slip-on nuts, hoses and special reaction arms



Subject to technical changes and errors.

Technical Data



Typ/Type	BT-11	BT-18	BT-45	BT-75	BT-107	BT-155	BT-266	BT-347	BT-487	BT-720
Antriebsvierkant/ Square drive	3/4"	3/4"	1"	1 1/2"	1 1/2"	1 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"
Artikelnummer/ Item number	72 011 000	72 018 000	72 045 000	72 075 000	72 107 000	72 155 000	72 266 000	72 347 000	72 487 000	72 720 000
Drehmoment/Torque (Nm)	110 - 1.100	180 - 1.850	430 - 4.500	740 - 7.500	1.000 - 10.700	1.550 - 15.500	2.600 - 26.600	3.400 - 34.700	4.800 - 48.000	7.200 - 72.000
Gewicht/Weight (kg)	1,8	2,5	5	8	11	15	26,5	35	50	87
H1	42	50	68	80	90	100	120	137	153	160
H2	66	72	95	123	134	142	183	200	216	223
H3	77	96	127	149	167	182	220	247	282	291
H4	109	131	177	199	217	232	270	297	332	341
L1	111	145	178	211	222	246	308	323	373	400
L2	140	173	229	271	293	318	384	401	497	516
L3	46	59	75	87	93	105	126,5	129,5	193	159,5
R	75	92	124	140	165	178	213	228	244	258
R1	21	26	34	39	47	51	59	66	77	81
R2	69	85	114	137	153	154	186	199	214	259
R3	54	66,5	89,5	100	120	128	153	159,5	167	178

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