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QY80U Crawler Crane

Product Profile

The QY80U crawler crane is developed with the North American market in mind on the basis of our company's many years of crawler crane manufacturing experience. The product has passed the North American certification. It provides superior lifting performance and optimum safety, and it features loaded travel, 360° full swing operations, and retractable crawlers. The boom length is 42' 0" -190' 3" and the fixed jib length is 25' 0" -58' 0" .

Product Highlights

■ Optimum Lifting Performance

- 1) Max. Lifting Torque > 300,000 ft.
- 2) The boom lifting performance is well above that of crawler cranes of the same grade.

Engine (2000hp), which complies with the most stringent emission standard in the world.

■ Environment-friendly

- 1) Stringent Emission Standard: QY80U is equipped with the Cummins QSL9-Tier 4F engine (2650hp), which complies with the most stringent emission standard in the world.
- 2) Low Noise Level.

The product, as measured in accordance with Appendix G of EN13000 and 2000/14/EC, registers a sound pressure level of 74.5dB (A) and a sound power level of 155dB (A) in the cab, with a measurement error of 3dB(A).

■ High Efficiency

- 1) The primary and secondary hoist winches are designed with the gravity hook-lowering feature.
- 2) The boom-and single pulley mechanism allows fast lifting of light loads.

■ Highly Reliable Components

- 1) Its transport weight with crawler beams is not more than 90,000 lb (40.5 mt), and
- 2) Its heaviest assembly is 9,700 lb (4.4 mt), making installation and transport extremely easy.

■ Complete Safety Protection Measures

No safety protection measures include brake testing, hoisting monitoring, hook height testing, boom restraint lifting protection, and emergency stop button.

■ Excellent Serviceability

- 1) The centralized lubrication system simplifies routine maintenance;
- 2) The centralized pressure measuring devices newly added to the hydraulic system are located near crawler beams, where the pressures related to all operational functions are collectively measured.

■ It features small transport weight and lightweight assemblies

- 1) Its transport weight with crawler beams is not more than 90,000 lb (40.5 mt), and
- 2) Its heaviest assembly is 9,700 lb (4.4 mt), making installation and transport extremely easy.



Engine



Primary and Secondary Hoist Winches with Gravity Hook Lowering Feature



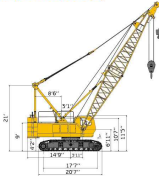
Single Pulley Mechanism



Electrical Control System Components



Outline Dimensions (ft)



A crane crosses the box, A three and lifting and lifting box

Technical Specifications

	QSL9-T4F7	
	QSL9-T4F7	QSL9-T4F7
Overall Length	281	8.4m
Dimensions (in Transport)		
Overall Width	115	3.43m
Overall Height	11.51	3.5m
Weight Specifications		
Max. Allowable Weight (in transport)	90000lb	40.8
Curb Weight	161000lb	73
Engine Model	QSL9-T4F7	
Power Specifications		
Rated Engine Power	2052hp	1688kW
Rated Engine Torque	739/1400N·m (41 lb-ft)	1083/1400N·m (800 lb-ft)
Emission Standard	U.S. EPA Tier 4F	U.S. EPA Tier 4F
Max. Travel Speed	1000mph	1000mph
Travel Specifications		
Min. Turning Radius	228	6m
Min. Ground Clearance	1.45	460mm
Max. Gradeability	30%	30%
Max. Retract Lifting Capacity	300m	72.4
Min. Retract Working Radius	131	4.3m
Max. Lifting Torque	29020000·ft	3671m
Performance Specifications		
Basic Boom Length	42.6ft	13m
Fully Extended Boom Length	190ft	58m
Fully Extended Boom + Jib Length	220ft	67m
Jib Mounting Angle	10°/93°	
Working Speed Specifications		
Boom Lifting/Retracting Time	150s	
Max. Swing Speed	384 km/h	120min
Max. Speed of Main Lifting Mechanism (Single Line)	21min	
Max. Speed of Auxiliary Lifting Mechanism (Single Line)	30min	120min

Lifting Load Tables Boom Lifting Performance Table

Boom Length (ft)	132	146	160	174	188	202	216	230	244	258	272	286	300	314	328	342	356	370	384	398	412	426	440	454	468	482	496	510	524	538	552	566	580	594	608	622	636	650	664	678	692	706	720	734	748	762	776	790	804	818	832	846	860	874	888	902	916	930	944	958	972	986	1000	1014	1028	1042	1056	1070	1084	1098	1112	1126	1140	1154	1168	1182	1196	1210	1224	1238	1252	1266	1280	1294	1308	1322	1336	1350	1364	1378	1392	1406	1420	1434	1448	1462	1476	1490	1504	1518	1532	1546	1560	1574	1588	1602	1616	1630	1644	1658	1672	1686	1700	1714	1728	1742	1756	1770	1784	1798	1812	1826	1840	1854	1868	1882	1896	1910	1924	1938	1952	1966	1980	1994	2008	2022	2036	2050	2064	2078	2092	2106	2120	2134	2148	2162	2176	2190	2204	2218	2232	2246	2260	2274	2288	2302	2316	2330	2344	2358	2372	2386	2400	2414	2428	2442	2456	2470	2484	2498	2512	2526	2540	2554	2568	2582	2596	2610	2624	2638	2652	2666	2680	2694	2708	2722	2736	2750	2764	2778	2792	2806	2820	2834	2848	2862	2876	2890	2904	2918	2932	2946	2960	2974	2988	3002	3016	3030	3044	3058	3072	3086	3100	3114	3128	3142	3156	3170	3184	3198	3212	3226	3240	3254	3268	3282	3296	3310	3324	3338	3352	3366	3380	3394	3408	3422	3436	3450	3464	3478	3492	3506	3520	3534	3548	3562	3576	3590	3604	3618	3632	3646	3660	3674	3688	3702	3716	3730	3744	3758	3772	3786	3800	3814	3828	3842	3856	3870	3884	3898	3912	3926	3940	3954	3968	3982	3996	4010	4024	4038	4052	4066	4080	4094	4108	4122	4136	4150	4164	4178	4192	4206	4220	4234	4248	4262	4276	4290	4304	4318	4332	4346	4360	4374	4388	4402	4416	4430	4444	4458	4472	4486	4499	4513	4527	4541	4555	4569	4583	4597	4611	4625	4639	4653	4667	4681	4695	4709	4723	4737	4751	4765	4779	4793	4807	4821	4835	4849	4863	4877	4891	4905	4919	4933	4947	4961	4975	4989	5003	5017	5031	5045	5059	5073	5087	5101	5115	5129	5143	5157	5171	5185	5199	5213	5227	5241	5255	5269	5283	5297	5311	5325	5339	5353	5367	5381	5395	5409	5423	5437	5451	5465	5479	5493	5507	5521	5535	5549	5563	5577	5591	5605	5619	5633	5647	5661	5675	5689	5703	5717	5731	5745	5759	5773	5787	5801	5815	5829	5843	5857	5871	5885	5899	5913	5927	5941	5955	5969	5983	5997	6011	6025	6039	6053	6067	6081	6095	6109	6123	6137	6151	6165	6179	6193	6207	6221	6235	6249	6263	6277	6291	6305	6319	6333	6347	6361	6375	6389	6403	6417	6431	6445	6459	6473	6487	6501	6515	6529	6543	6557	6571	6585	6599	6613	6627	6641	6655	6669	6683	6697	6711	6725	6739	6753	6767	6781	6795	6809	6823	6837	6851	6865	6879	6893	6907	6921	6935	6949	6963	6977	6991	7005	7019	7033	7047	7061	7075	7089	7103	7117	7131	7145	7159	7173	7187	7201	7215	7229	7243	7257	7271	7285	7299	7313	7327	7341	7355	7369	7383	7397	7411	7425	7439	7453	7467	7481	7495	7509	7523	7537	7551	7565	7579	7593	7607	7621	7635	7649	7663	7677	7691	7705	7719	7733	7747	7761	7775	7789	7803	7817	7831	7845	7859	7873	7887	7901	7915	7929	7943	7957	7971	7985	7999	8013	8027	8041	8055	8069	8083	8097	8111	8125	8139	8153	8167	8181	8195	8209	8223	8237	8251	8265	8279	8293	8307	8321	8335	8349	8363	8377	8391	8405	8419	8433	8447	8461	8475	8489	8503	8517	8531	8545	8559	8573	8587	8601	8615	8629	8643	8657	8671	8685	8699	8713	8727	8741	8755	8769	8783	8797	8811	8825	8839	8853	8867	8881	8895	8909	8923	8937	8951	8965	8979	8993	9007	9021	9035	9049	9063	9077	9091	9105	9119	9133	9147	9161	9175	9189	9203	9217	9231	9245	9259	9273	9287	9301	9315	9329	9343	9357	9371	9385	9399	9413	9427	9441	9455	9469	9483	9497	9511	9525	9539	9553	9567	9581	9595	9609	9623	9637	9651	9665	9679	9693	9707	9721	9735	9749	9763	9777	9791	9805	9819	9833	9847	9861	9875	9889	9903	9917	9931	9945	9959	9973	9987	10001	10015	10029	10043	10057	10071	10085	10099	10113	10127	10141	10155	10169	10183	10197	10211	10225	10239	10253	10267	10281	10295	10309	10323	10337	10351	10365	10379	10393	10407	10421	10435	10449	10463	10477	10491	10505	10519	10533	10547	10561	10575	10589	10603	10617	10631	10645	10659	10673	10687	10701	10715	10729	10743	10757	10771	10785	10799	10813	10827	10841	10855	10869	10883	10897	10911	10925	10939	10953	10967	10981	10995	11009	11023	11037	11051	11065	11079	11093	11107	11121	11135	11149	11163	11177	11191	11205	11219	11233	11247	11261	11275	11289	11303	11317	11331	11345	11359	11373	11387	11401	11415	11429	11443	11457	11471	11485	11499	11513	11527	11541	11555	11569	11583	11597	11611	11625	11639	11653	11667	11681	11695	11709	11723	11737	11751	11765	11779	11793	11807	11821	11835	11849	11863	11877	11891	11905	11919	11933	11947	11961	11975	11989	12003	12017	12031	12045	12059	12073	12087	12101	12115	12129	12143	12157	12171	12185	12199	12213	12227	12241	12255	12269	12283	12297	12311	12325	12339	12353	12367	12381	12395	12409	12423	12437	12451	12465	12479	12493	12507	12521	12535	12549	12563	12577	12591	12605	12619	12633	12647	12661	12675	12689	12703	12717	12731	12745	12759	12773	12787	12801	12815	12829	12843	12857	12871	12885	12899	12913	12927	12941	12955	12969	12983	12997	13011	13025	13039	13053	13067	13081	13095	13109	13123	13137	13151	13165	13179	13193	13207	13221	13235	13249	13263	13277	13291	13305	13319	13333	13347	13361	13375	13389	13403	13417	13431	13445	13459	13473	13487	13501	13515	13529	13543	13557	13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Lifting Load Tables

Fixed Jib Lifting Performance Table

Name										
Boom Length		40 (130')					52 (171')			
Jib Length		10.3 (34')					18 (59')			
Jib Length		8 (26')					13.5 (44')			
Radius (m) (ft)		Swinging Angle (°)								
		10	20	30	40	50	60	70	80	90
15 (49' 2")	14.34				14.34			13.24		
16 (52' 6")	14.34	14.34	14.34	14.34			13.24	12.12	12.12	
17 (55' 9")	14.34	14.34	14.34	14.34			13.24	12.10	12.12	
18 (59' 2")	14.34	14.34	14.34	14.34		8.02	13.24	12.10	12.12	12.10
19 (62' 7")	14.34	14.34	14.34	14.34	11.02	8.02	13.24	12.12	12.12	11.02
20 (66' 0")	14.34	14.34	14.34	14.34	11.02	8.02	13.24	12.12	12.12	11.02
22 (72' 2")	14.34	14.34	14.34	14.34	11.02	8.02	7.72	13.24	12.12	11.02
24 (78' 9")	13.24	13.24	13.24	13.24	11.02	8.02	7.72	12.12	12.12	11.02
26 (82' 2")	11.46	11.46	11.46	11.46	11.02	8.02	7.72	11.02	11.02	11.02
28 (85' 10")	10.14	10.14	10.14	10.14	10.14	8.02	7.72	9.92	9.92	8.7
30 (88' 5")	9.04	9.04	9.04	9.04	9.04	8.02	7.72	8.82	8.82	8.6
32 (92' 0")	7.84	7.84	7.84	7.84	7.84	7.84	7.72	7.72	7.72	7.72
34 (95' 4")	7.06	7.06	7.06	7.06	7.06	7.06	6.4	6.62	6.62	6.4
36 (98' 7")		6.4	6.4	6.4	6.4	6.4	5.74	5.74	5.5	5.3
38 (102' 1")			6.14	6.14	6.14	6.14	5.3		4.96	4.96
40 (105' 5")				5.3	5.3	5.3	4.96			4.62
42 (108' 9")					4.42					
43 (112' 1")					3.86					
Ratio		1	1	1	1	1	1	1	1	1
Max LIFT		8	8	8	8	8	8	8	8	8
Wind Speed (m/s)		9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8

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XUZHOU CONSTRUCTION MACHINERY GROUP IMP. & EXP.CO.,LTD



XCMG For Your Success

Max. Rated Lifting Capacity 800kN(172.6t)
Max. Lifting Torque 236000N·m (83377 ft·lbf)
Max. Allow Weight(in transport) 9000kg(49.6t)
Engine Model QSL11T45
Rated Engine Power 2650hp(198kW)

QUY80U

CRAWLER CRANE

■ Instructions on how to use the lifting performance table(s)

- The rated lifting capacity in the table refers to the max. lifting capacity that can be ensured with the given boom length and radius on a solid and flat surface that does not subside during 360° lifting operations and has a gradient of not more than 1 per cent. The lifting capacity value is gray shade depends on the crane strength, and the other values depend on the crane stability. Never exceed these lifting capacity values during operations. The unit of the rated lifting capacity is (t) or (x 1,000).
- The rated lifting capacity in the table includes the weight of hook and lifting appliance.
- The blank cells in the table, where no rated value is given, indicate that the crane shall not be used under corresponding conditions.
- The max. lifting capacity (including the hook, lifting appliances, and steel wire rope) of the boom-end single pulley mechanism shall never exceed 17.0 x 1,000. When the rated lifting capacity in the performance table is less than 17.0 x 1,000, the lifting operations shall be conducted in accordance with the performance table.
- The crane shall operate in conditions where the wind speed is not more than 32t/s (in force 6 gale).
- There are four types of hooks, i.e. 90 USL, 55 USL, 30 USL, and 9 USL hooks, of which the 9 USL hook is for working conditions when the fixed jib and the boom-and-single pulley are used. The weights of different hooks are shown in the table below.

Weight of different tonnage hooks

Hook	90 USL Hook	55 USL Hook	30 USL Hook
Weight	0.16 USL	0.48 USL	0.28 USL

- The ratios in the lifting performance table correspond to the max. lifting capacity at the given boom strength, and ratios and hooks shall be selected according to actual lifting load in the table.