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SAE J749 DEC83

**Drawbars — Crawler
Tractor**

SAE Recommended Practice
Revised December 1983

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OFF-HIGHWAY MACHINERY PRACTICE

an American National Standard

SAE J749

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Superseding J749 NOV78

Ø DRAWBARS - CRAWLER TRACTOR

PURPOSE:

The SAE Recommended Practice provides recommended dimensions for drawbars for crawler tractors as defined in SAE J1057 NOV79.

SCOPE:

This recommended practice includes only those dimensions which will affect the attaching of towed equipment.

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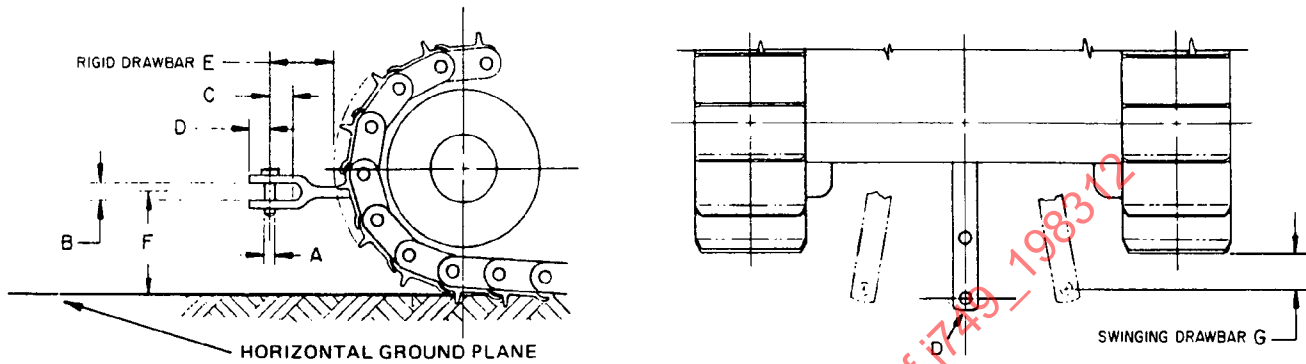


FIGURE 1 - Dimensions for Crawler Tractor Drawbars
(See Table 1)

TABLE 1 - Dimensions for Crawler Tractor Drawbars

Tractor Mass-Max*		Pin Diameter A		Jaw Opening B Min		Jaw Length C Min		Jaw Outer Radius D Max		Track Arc to Pin Rigid Drawbar E Min		Jaw Height F		Track Arc to Pin Swinging Drawbar G Min	
kg	lb	± 1.0 mm	± 0.04 in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
4500	9920	28	1.10	64	2.52	58	2.28	50	1.97	100	3.9	300-430	11.8-16.9	75	2.9
9000	19 840	35	1.38	64	2.52	58	2.28	50	1.97	100	3.9	300-430	11.8-16.9	75	2.9
18 000	39 690	45	1.77	90	3.54	77	3.03	89	3.50	150	5.9	400-660	15.7-26.0	100	3.9
27 000	59 530	50	1.97	96	3.78	102	4.01	89	3.50	200	7.9	500-750	19.7-29.5	125	4.9
45 000	99 220	57	2.24	105	4.13	115	4.53	115	4.53	200	7.9	500-750	19.7-29.5	125	4.9
80 000	176 400	70	2.76	105	4.13	130	5.12	150	5.90	200	7.9	650-1000	25.6-39.4	125	4.9
140 000	308 700	80	3.15	105	4.13	150	5.90	200	7.87	200	7.9	800-1250	31.5-49.2	125	4.9

* Tractor Mass Includes: fully serviced tractor, fuel tank-full, operator mass of 80 kg (176 lb), manufacturer's standard track shoe, crankcase guard, transmission guard, track roller guard, heavy-duty radiator guard, front pull hook, manufacturer's standard drawbar, and rollover protective structure.