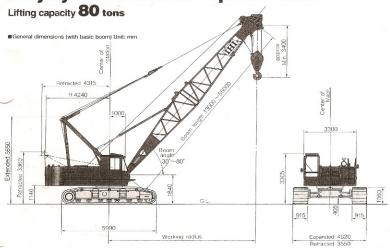


Fully Hydraulic Crawler—Spanner Crane



The world is our stage. IHI Technology-on land or sea.

DCH800: a muscular crawler crane, the kind of machine that can be equipped with the proper attachments and used at nearly any foundation or digging job at most construction sites. This hard-worker does equally well on land or water-excellent for the heavy construction needed for harbors, for example.

The superstructure is equipped with a latice boom that uses an independently arranged two-drum-on-a-single-shaft (DOUBLE WING) system with a maximum lifting capacity of 80 tons and a drum winding speed of 70 meters per minute. And the big diesel puts out 230ps, maximum, at 2,100 rpm.

Operations are 100% hydraulic, to take full advantage of the power of this machine. Further, hydraulic spanner crawlers are used to provide the safe stability operators want when working. And its turning radius is a mere 4.24 meters, a definite improvement.

The crawler frame itself is a compact as possible, and can be transported with a trailer.

Heavy equipment benefits from the application of IHI technology: Witness the multi-purpose, multi-use, fully hydraulic DCH800 crawler crane.

Performance	The state of the s						
Swing speed	3.0 rpm						
Travel speed	*1.5km/h						
Gradeability	40% (22°)						
Operation system							
Power source	Hydraulic						
Transmission system	Hydraulic						
Drum type	Independent two drum on single shaft (DOUBLE WING)						
Swing system	Swing bearing						
Hydraulic pump	Variable displacement axial plunger pump×3 Gear pump×1						
Engine							
Model	Hino EP100T						
Туре	4-cycle, water cooled						
Type	Direct injection diesel						
Cylinder bore stroke	6-120mm×130mm						
Total displacement	8.8211						
Rated output	230PS/2100rpm						
Max. torque	71kg • m/1400 rpm						
Rated fuel consumption rate	172g/PS-h						
Fuel tank capacity	3501						

NOTE: Speeds change with load level.

Specifications

Maximum	lifting load×working radius	80ton×3.7m				
Basic boon	n length	13.0 m				
Max. boom	length	55.0m				
Max. lengt	h of boom + fly jib	62.0m (46.0m + 16.0m)				
	Boom holsting and lowering	*68m/min				
Rope speed	Load hoisting and lowering	High speed 70m/min, Low speed 35m/min				
	Jib load hoisting and lowering	High speed 70m/min, Low speed 35m/min				
	Boom hoisting	12-part lines				
nart lines	80ton hook	8-part lines				
1 2 2 3	Boom hoisting 12-part					
Counterweight		23.0 tons				
Crane tota (with 13m l	weight soom and 80 ton hook block)	78.8tons (Basic Boom)				
		0.76 kg/cm ²				

NOTE: Speeds change with load level,

Place of use	Rope diameter (mm)	Guaranteed strength (t)	Rope type		
Main hoisting	φ26	49.9	C		
Boom hoisting	φ20	30.0	C		
Boom suspension	ø40	120.0	C		
Aux hoisting	ø26	49.9	C		
Jib boom suspension	ø28	59.3	E		
Jib strut suspension	628	59.3	Е		

NOTE: Rope type

C ···· 6×Fi (29) IWRC, preformed, regular Z lay.

E ···· 6×Fi (25) IWRC, preformed, regular Z lay.

Rated lifting loads (Within 78% of hipping load; forward stability factor over 1, 15)

Working Radius	Boom length (m)														
(m)	13.0	16.0	19.0	22.0	25.0	28.0	31.0	34.0	37.0	40.0	43.0	46.0	49.0	52.0	55.0
3.7	80.0														
4.0	75.0														
4.5	70.5	64.0		-		194-									
5.0	58.8	58.6	56.0												
5.5	50.3	50.2	50.1	50.0											
6.0	43.9	43.8	43.7	43.6	43.5										
7.0	35.0	34.8	34.7	34.6	34.5	34.4	34.3								
8.0	28.9	28.8	28.7	28.6	28.5	28.4	28.3	28.2	28.1						
9.0	24.6	24.5	24.4	24.3	24.2	24.1	24.0	23.9	23.8	23.7	23.5				
10.0	21.4	21.3	21.2	21.1	21.0	-20.9	20.8	20.7	20.6	20.5	20.4	19.0	17.2		
12.0	16.8	16.7	16.6	16.5	16.4	16.3	16.2	16.1	16.0	15.9	15.8	15.7	14.9	12.7	
14.0		13.6	13.5	13.4	13.3	13.2	13.1	13.0	12.9	12.8	12.7	12.6	12.5	10.7	9.6
16.0		Sec.	11.4	11.3	11.2	11.1	11.0	10.9	10.8	10.7	10.6	10.5	10.4	9.5	8.3
18.0	Warran al			9.6	9.5	9.4	9.3	9.2	9.1	9.0	8.9	8.8	8.7	8.5	7.3
20.0				8.3	8.2	8.1	8.0	7.9	7.8	7.7	7.6	7.5	7.4	7.3	6.4
22.0					7.2	7.1	7.0	6.9	6.8	6.7	6.6	6.5	6.4	6.3	5.5
24.0						6.3	6.2	6.1	6.0	5.9	5.8	5.7	5.6	5.5	4.8
26.0							5.5	5.4	5.3	5.2	5.1	5.0	4.9	4.8	4.2
28.0								4.8	4.7	4.6	4.5	4.4	4.3	4.2	3.6
30.0								4.3	4.2	4.1	4.0	3.9	3.8	3.7	3.2
32.0									3.8	3.7	3.6	3.5	3.4	3.3	2.6
34.0										3.3	3.2	3.1	3.0	2.9	2.2
36.0		100000000000000000000000000000000000000									2.8	2.7	2.6	2.5	1.8
38.0											2.5	2.4	2.3	2.1	1.4

- 1. The weight of the sling, hook and auxiliary Efting devices are considered a part of the load: Main book 80 ton hook block
- 1.100kg 700kg 600kg Main hook 30 ton hook block Jib hook 10-ton hook block The following weights must be subtracted from the rated load when lifting by the main hook while the jib look is attached:
- 600 kg L.Om jib boom 1.700kg 18.0m jib boom
- 3. Recommended hold calle parti:
 Not leads upto 15a.
 For leads upt

- 6. The allowable load when lifting by a jib at a The allowable load when litting by a jib at a radius from the center of rotation of the machine is the same load that may be litted by the main boom with the boom lowered to that tradius, but is not to exceed the thest same to be some load of the control of the things of the same to be some to be some or the same to be some to be some or the same to be some to be some or the same to be some to be some or the same to be some to be some or the same to be some to be some or the same to be same to the same to be same to the same to be same to the the same to the sam
- The angle formed by the extended conter-line of the main hoom and the centerline of the jib should not exceed 30° when a load is lifted.