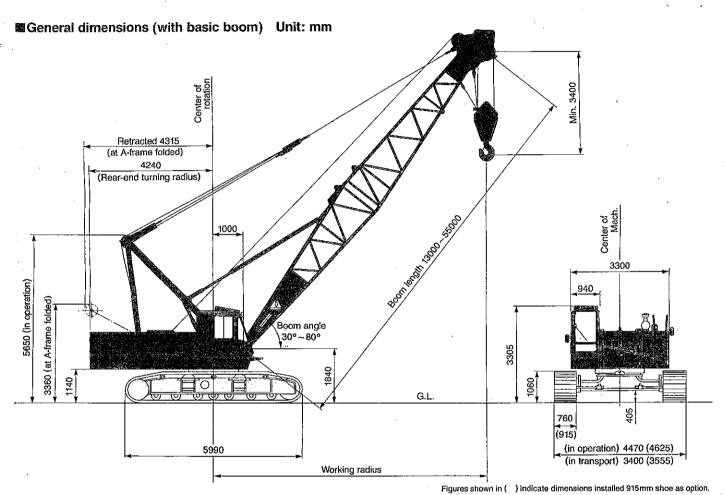
Fully Hydraulic Crawler-Spanner Crane Lifting Capacity (JIS) 80 metric tons



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 70 meters per minute. And the big diesel puts out 230ps, maximum, at 2,100rpm.

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 as 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.

Specifications

Performance	
Swing speed	3.0rpm
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
Type	4-cycle, water cooled, direct injection diesel
Cylinder bore stroke	6-120mm×130mm
Total displacement	8.821ℓ
Rated output	230PS/2100rpm
Max. torque	71kg·m/1400rpm
Rated fuel consumption rate	172g/PS·h
Fuel tank capacity	350ℓ

Note: Speed marked "*" will be changed to the loads given.



Standard equipment

Instruments

Engine tachometer (hour meter) Hydraulic oil pressure gauge Hydraulic oil temperature

Coolant temperature Engine lubrication oil pressure

Fuel gauge

 Lighting equipment Working light 24V×80W $24V \times 20W$ Room light

 Safety equipment Hook overwinding prevention device (automatic stop)

Boom overwinding prevention device (automatic stop)

Telescopic boom limit stop

Swing lock

Drum lock for main hoist, auxiliary hoist and boom (ratchet/pawl type)

Hydraulic relief valve Counterbalance valve

•Other standard equipment Cab heater (hot water type)

Roof glass wipper Sun visor Reclining operator's seat Radio

Windshield wiper

Cigarette lighter

Asĥtray

indicated in

OK monitor

Rear view mirror (R/L)

Signal horn

Electric fuel filling pump Swing warning flasher

Low-noise operator's cab

Wire mesh boom walkway (for inner boom) Step to operator's cab (foldable type)

A-frame erecting device

■Optional equipment & accessories

Moment limiter (overload prevention) Warning at 90% of rated load Stop automatically at 100% of rated load Warning at optionally setting boom angle

Yellow rotary light Wireless phone

Bullhorn Cab cooler

Combustion type cab heater (in lieu of hot water type)

Spark arrester 915mm shoe

Working light on boom

Name plate (both side of outer boom) Wire mesh walk way on boom back

(outer and insert boom)

3m, 6m, 9m insert boom with pendant rope 10m basic jib boom, 3m, insert boom with pendant rope

lm auxiliary jib

10 ton hook block (for jib boom)

30 ton hook block (I shave)

50 ton hook block (3 shaves)

Large size tool box $(W \times H \times L)$: 350mm×400mm×1100mm

Crawler frame fixing device to pontoon 3rd drum

Hydraulic type tag line

Specifications

Maximum lif	ting load × working radius	80 ton × 3.7m				
Basic boom	length	13,0m				
Max boom	length	55,0m				
Max. length	of boom + fly jib	62.0m (46.0m + 16.0m)				
	Boom hoisting and lowering	* 68 m/min				
Rope speed	Load hoisting and lowering	* High speed 70m/min, * Low speed 35m/min				
speed	Jib load hoisting and lowering	* High speed 70m/min, * Low speed 35m/min				
at A Charles	Boom hoisting	12-part lines				
Basic boom I Max. boom It Max. length It Rope speed Part lines Counterweig Grane total It (with:13m:bo	80 ton hook	8-part lines				
and the second s	.10 ton hook	1-part line				
Counterwei	nt .	23.0 tons				
	veight com:and:80 ton hook block)	Approx. 75.4 tons				
Average gro	und bearing pressure	-0.87kg/cm ²				

Note: The rope speed depends on the load.

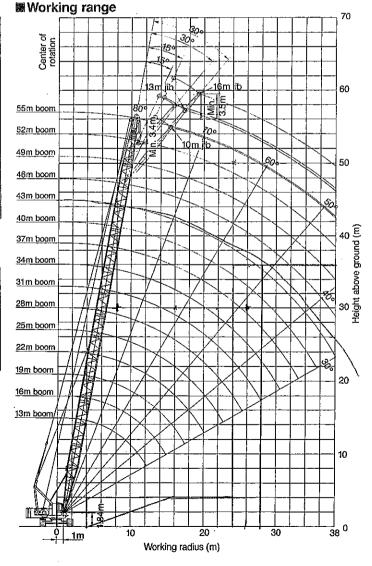
■ Wire rope

•			
Place of use	Rope diameter (mm)	Guaranteed strength (1)	Rope type
Main hoisting	φ26	56.8	ם
Boom hoisting	φ20	30.0	.
Boom suspension	φ40	120.0	C
Aux. hoisting	φ26	56.8	\mathbf{D}_{ii}
Jib boom suspension	φ28	59.3	E
Jib strut suspension	φ28	59.3	S S ENC

Note: Wire rope shall be supplied at suitable length to boom length.

Rope type C.....6×Fi (29) IWRC, regular Z lay.

E.....6×Fi (25) IWRC, regular Z lay. D.....T7×7+6×Fi (29) IWRC, regular Z lay.



MBoom & Jib composition

Linit: m

MEDOOIII & UID CE	niposition ont	411
Boom length	Boom composition	Y.
13	6.5 (inner) + 6.5 (outer)	
. 16	-6.5+3+6.5	ा । हार्
19	6.5+3+3+6.5	
22	6.5+3+6+6.5	
25	6.5+3+3+6+6.5	
28	6.5.±3.±6+6+6.5	3775 1414
31	6.5+3+6+9+6.5	
34	6.5 + 3 + 3 + 6 + 9 + 6.5	ँ
37	6.5+3+6+6+9+6.5	
40	6.5+3+6+9+9+6.5	
43	6.5+3+6+9+3+9+6.5	
46	6.5 + 3 + 6 + 9 + 6 + 9 + 6 5	
49	6.5+3+6+9+9+9+6.5	
52	6.5+3+6+9+3+9+9+6.5	10
55	6.5+3+6+9+3+3+9+9+6.5	

	Olur III
. Jib length	Jib composition
1	1 (Aux. Jib)
10	4,5 (inner) ±5,5 (outer)
13 ·	4.5+3+5.5
16	4.5 + 3 + 3 + 5.5

■Combination of main and jib boom

applicable

Jib boom length	r # 3	. 112.2		March	A-11-122	李藻N	iain bo	om ler	igth (n	I	(A)/A	14 18 P.	を定く	104.16	y (24)
(m)	13	16	197	22	25	-28	31 **	34	37	.40₹	43	^46″	49	52	55
1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
10			7 7 5 2 4 2 5 6 5 7			●	•	•		(⊕ ⊆	•			1 3.4	7
13					•	•	•	•	•	•	•	•			<u> </u>
16		.40.19		7.3		•		•	•	•		•			

Rated lifting loads

Unit: Metric ton

Working radius:	2012		新版制图	4.40	對於領海		Boo	m length	(m)		領與領	制度製造		*****	以影响
(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						``			l		.			
4.0	75.0														
4.5	70.5	64.0			l										
5.0	58.8	58.6	56.0	\$ 1.00 miles	and the				英类技	77.00	Salve S				
5.5	50.3	50.2	50.1	50.0											
6.0	43.9	43.8	43.7	43.6	43.5	Company Com			18 1 19 1 T	And the		A Section 3	12.00		11.74
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	9.44		安原支票		表表表表	235
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	21:17	21.0	20.9	20.8	20.7	20.6	20.5	20.4	19.0	≫17,2	全线性法律	
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			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	J. W. L. (1)		OF SUE	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			-1-1-0	7. J. J.	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)	(48)
26.0				- 10 T		40年3月	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		\$486.S						4.3	4.2	4.1	4.0	3.9	∴ 3.8	3.7	32
32.0							· ·		3.8	3.7	3.6	3.5	3.4	3.3	2.6
34.0			4.13%	\$\$ \$\$ \$\$.		2000年度				3.3	3.2	. 3.1	3.0	2.9	22
36.0											2.8	2.7	2.6	2.5	1.8
38.0	1. S. J. O. S.	M 35, 65.3		C1/20/51	9000	25000	4 ()			100	2.5	24	. 2.3	2.1	1.4

- 1. Above rated loads are based on firm level ground, within 78% of tipping load at any points 360° through out and with front stability of 1.15 or more.

 2. Working radius is horizontal distance from center of rotation to a vertical line through the centerline of gravity of the load.
- - 50 ton hook block..... 700kg 30 ton hook block...... 600kg
- The following weights must be subtracted from the rated load when lifting by the main hook while the jib hook is attached:

- hook while the main hook is attached.
- 8. Crawler frame and A-frame should also be extended
- Trawer frame and Arrams should also be exerted before working.

 The allowable load when lifting by a jib at a radius from the center of rolation of the machine is the same load that may be lifted by the main boom with the boom lowered to that radius, but is not to exceed the following:

Unit: Metric ton

Jib length ::	"Im.	10m	13 m	16m
15° jib offset	10	8.0	6.5	5.5
30° jib offset	. 10	5.0	4.0	3.0

The offset angle formed by the extended centerline of the main boom and the centerline of the jib should not exceed 30° when a load is lifted.

4

■Specifications

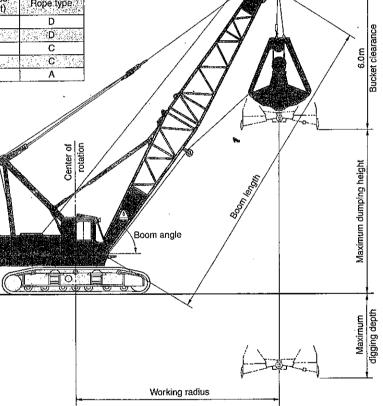
Maximum	lift above ground	18.3m (25m.boom + 2.5m3 bucket)							
Allowable	gross weight	10.0t							
Boom leng	ilh	Basic 13.0m Standard 22.0m Recommend max 25.0m							
Standard t	yickef	Capacity 2.5m ³ Weight 5.01 Application General digging							
	Bucket hoisting and lowering	≠ 70/35m/min							
Rope	Bucket opening and closing	*70/35m/min							
speed	Boom hoisting and lowering	* 68m/min							
	Bucket hoisting and lowering	1-part line (for all types of buckets)							
Part lines	Bucket opening and closing	6-part lines							
	Boom hoisting and lowering.	12-part lines							
Counterwe	ight as seed to a green during the	23.0 tons							
Total weigl	it (22m boom ± 2.5m³ bucket)	Approx. 81.3 tons							
Average g	round bearing pressure	0.94kg/cm ²							

■Bucket Specifications

Classification	Capacity (m³)	Weight (t)	Purpose
STD	2.5	5.0	General digging, heavy material handling
OPT	1.6	Heavy-duty digging (dredging)	
OPT	3.0	4,5	Medium-weight material handling (Apparent specific gravity: 1.2-1.5)
OPT	4:0	Lightweight material handling (Apparent specific gravity: less than 1.2)	
ОРТ	5.0	4.0	Lightweight material handling (Apparent specific gravity: less than 1.0)

Note: The rope speed changes depending on the load.

₩Wire rope Rope diameter Guaranteed Rope type Place of use strength (t) (mm) D Bucket hoisting and lowering φ26 56.8 φ26 Bucket opening and closing 56.8 D-С Boom hoisting and lowering φ20 30.0 φ.40 120.0 Boom suspension 5.5 Tag line φ10 Α Note: Wire rope shall be supplied at suitable length to boom length. Rope type A.....6×19 fibercore, regular Z lay. C6×Fi (29) IWRC, regular Z lay. D17×7+6×Fi (29) IWRC, regular Z lay.



WWorking range

Working range and allowable loads

Unit: Metric ton

Boom length	(m) 🛠		3. (3)	3 🐫		Siril S	1	6			4 31	9:5-1			3/2/2	2			漂海2	5	
Boom angle		35°	45°	55°	65°	35°	45°	55°	65°	35°	45°	55°	65°	35°	45°	55°	65°	35°	45°	55°	65°
Working radius	(m)	11.4	9,9	8.1	6.1	13.9	12.0	9.9	7.4	16.3	14.2	11.6	8.7	18.8	16.3	13.3	9.9	21.3	18:4	15.0	11.2
Rated lifting load	(t)	10	10	10	10	10	10	10	10	10	10	10	10	8.2	9.8	10	10	6.8	8.3	10	10
Maximum dumping height	(m)	2.9	4.7	6.2	7:4	4.7	6.8	8.7	10.1	6,4	9.0	11.2	12.9	8.1	11.1	13.6	15.6	9.8	13.2	16.1	18,3
Maximum digging depth	(m)	32.1	30.3	28.8	27.6	30.3	28.2	26.3	24.9	28.6	26.0	23.8	22.1	26.9	23.9	21.4	19.4	25.2	21.8	18.9	16.6

IHI

Ishikawajima Construction Machinery Co., Ltd.

9-7, Yaesu 2-chome, Chuo-ku, Tokyo 104, Japan Telephone: 03-3277-3975 Telefax: 03-3277-3960, 03-3277-4410

Specifications are subject to change without notice due to technical improvements or modifications. Distributed by

