

Mastertech 7070

**KOBELCO**

# 7070

## CRAWLER CRANE

Max. Lifting Capacity **70t × 4.0m** Max. Boom Length **54.9m**

## LUFFING TOWER CRANE

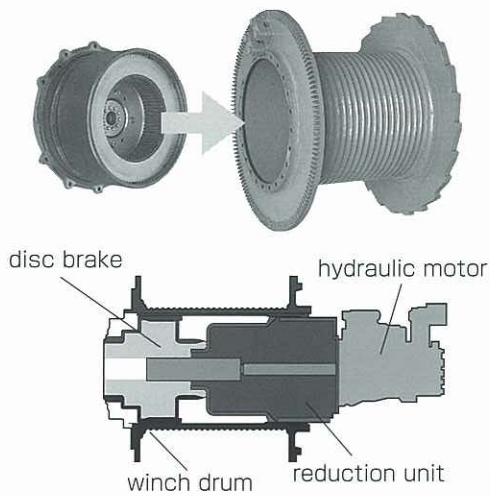
Max. Lifting Capacity **13t × 12.0m** Max. Tower Length **42.7m**





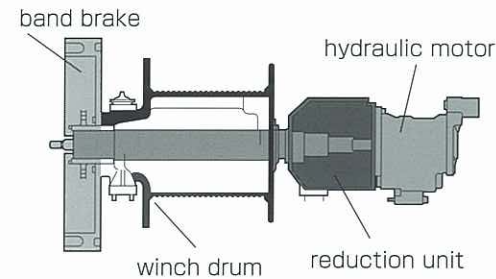
# Revolutionary Wet-type Disk Brake System

## Wet-type Disk Brake installed in winch drum

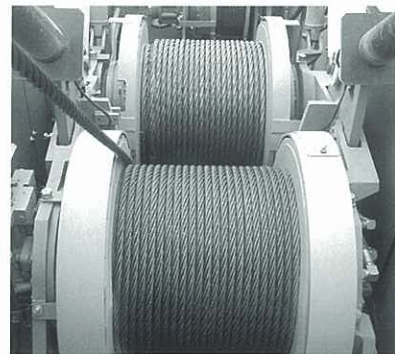


Developed by KOBELCO, a wet-type disc brake and reduction unit are both fitted inside its drum. That means more drum capacity, more braking power, and easier maintenance. Already installed in KOBELCO BM series foundations and heavy engineering cranes, the wet type winch has actual results.

## Conventional, externally-fitted band brake :



## Large capacity drum takes 40 m on the first layer



We have used the space taken up by the brake on the current winch, to increase the width of the drum. 545mm drum takes 23 rows of 22mm diameter wire rope. This means much more cable wound on the first layer, and large drum keeps the winding smooth, so high lifting and bucket operations proceed without a hitch. The wire rope suffers little wear or damage, extending its useful life.

## Wet-type disc brake delivers powerful braking

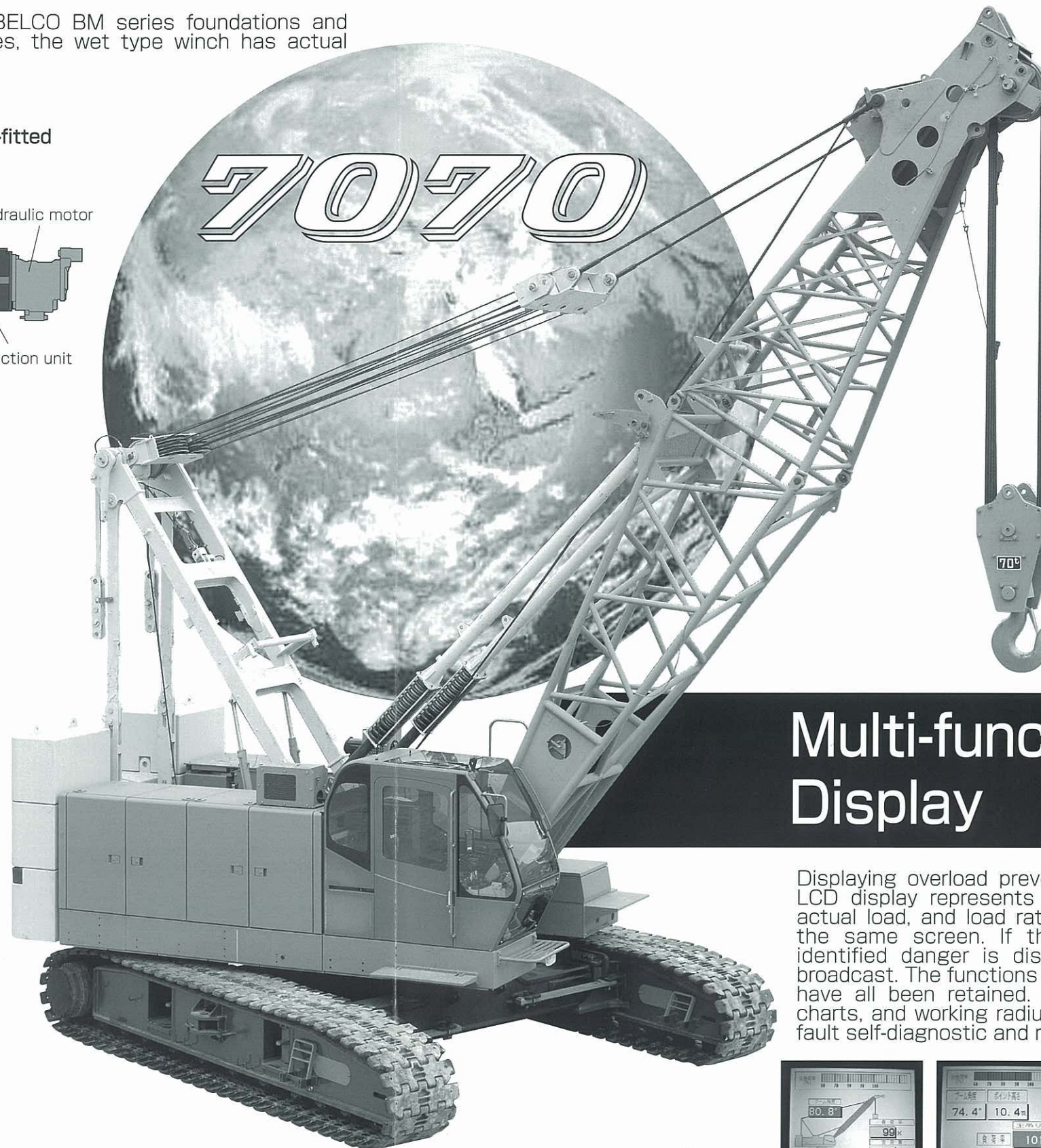
The winch has a wet-type multi disc brake developed by KOBELCO, which gives strong, consistent, reliable braking power. Being the forced oil-cooled type, it can withstand the increased temperatures resulting from continuous use, with virtually no loss of braking power and with no variation in the light feel of the pedal control.

## Band-less design reduces maintenance requirements

The wet-type disc brake requires none of the band adjustments or lining replacements that are needed with conventional drum brakes, so time and cost of maintenance is drastically reduced. The brake is also much quieter and cleaner, scattering no worn lining debris, and so is far friendlier to the surrounding environment.

## Space for a large third drum(optional)

The compact Brake In Drum winch and a modified engine alignment allow the installation of a third drum of the same specifications as the main and auxiliary drums. The crane can then accommodate foundations and heavy engineering attachments.



**Conforms to worldwide emissions standards.**

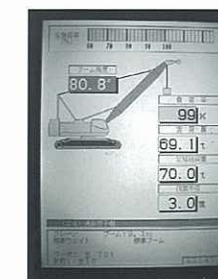
Conforms to the European EEC Stage 2 and American EPA TIER II standards.

**Qualifies as low noise construction machine in Europe.**



## Multi-function ML Display

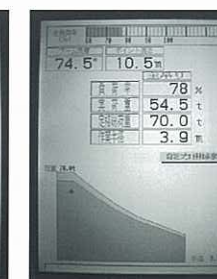
Displaying overload prevention information on a large color LCD display represents a giant step forward. Rated load, actual load, and load ratio are displayed large and clear on the same screen. If the load becomes dangerous, the identified danger is displayed in color and a warning is broadcast. The functions of the previous multi-display monitor have all been retained. Rated load tables, lifting capacity charts, and working radius data can be displayed, as well as fault self-diagnostic and maintenance data.



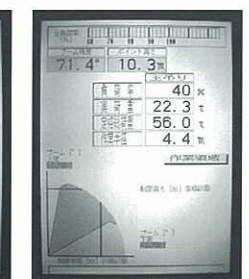
Main screen



Overload display



Lifting capacity charts



Working radius data display



## Specifications

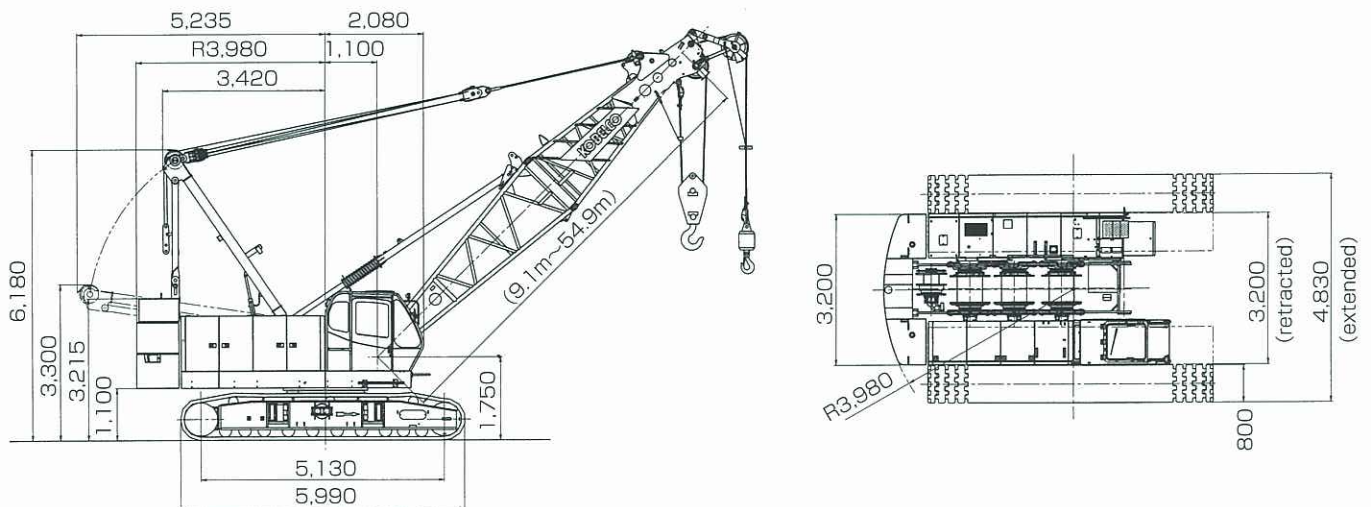
		Crawler Crane	Luffing Tower
Max. lifting capacity	txm	70x4.0	13x12.0
Boom (Tower) length	m	9.1~54.9	21.3~42.7
Jib (Tower jib) length	m	6.1~18.3	18.3~30.5
Max. boom (tower) length + jib (tower jib) length	m	45.7+12.2	42.7+30.5
		42.7+18.3	
Line speed	Main hoisting/lowering	m/min	*120~3
	Aux. (tower jib) hoisting/lowering	m/min	*120~3
	Opt. third hoisting/lowering	m/min	*120~3
	Boom hoisting/lowering	m/min	*70~2
Swing speed	min <sup>-1</sup> {rpm}	4.0	
Travel speed	km/h	*1.9/1.2	
Operating weight (basic configuration)	t	71.1	75.6
Ground pressure (basic configuration)	kPa{kgf/cm <sup>2</sup> }	80{0.81}	85{0.86}
Gradeability (tanθ)	% (degree)	40(21.8)	—
Rated line pull	kN{tf}	68.6{7.0}	—
Engine	Model	MITSUBISHI 6D16-TL	
	Rated output	kW/min <sup>-1</sup> {PS/rpm}	159/2000{216/2000}
Wire rope	Main	mm	φ22
	Aux. (Tower jib)	mm	φ22
	Opt. third	mm	φ22
	Boom	mm	φ16

Third drum is option.

Each line speed shows the value of first layer.

Line speed marked \* shows the value at light load, and varies according to the load.

## DIMENSIONS (mm)



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