



KOBELCO

Leaders Lead

The New
G Series
(Interim Tier IV Compliant)

CK850G
CK2750G
CK1100G
CK1200G
CK1600G



KOBELCO **KOBELCO CRANES NORTH AMERICA, INC.**
Reliability is the History of Quality

10845 Train Court - Houston, TX 77041 | Ph: 713.856.5755 | Fax: 713.856.9072
www.kobelcocranesnorthamerica.com

CK G series



KOBELCO CRANES CO., LTD.



KOBELCO

NEW MODEL LINE-UP

GR850G

85 usTon

GR1100G

110 usTon

GR1200G

120 usTon

NEW

GR1600G

160 usTon

GR2750G

275 usTon

• CK2000II REPLACEMENT - INTRO EARLY 2012

KOBELCO CRANES CO., LTD.

**KOBELCO**

COMPONENT INTERCHANGEABILITY

G series

NOTE: CHANGES HIGHLIGHTED IN RED

MODEL	BOOM/INT	JIB/INT	LUFF/INT	AUX SHEAVE INT	ENG HP new/old	WIRE ROPE
CK850G ▲▼▲▼▲▼▲▼▲▼▲▼	200'/YES**	60'/YES	NOT AVAIL.	YES	285/215	22mm (6 strand)
CK1100G ▲▼▲▼▲▼▲▼▲▼▲▼	200'/YES**	60'/YES	NOT AVAIL.	YES	285/331	26mm (6 strand)
CK1200G ▲▼▲▼▲▼▲▼▲▼▲▼	230'/Ins. & tip**	100'/YES	170'/YES	YES	285/331	26mm (6 strand)
CK1600G ▲▼▲▼▲▼▲▼▲▼▲▼	250'/YES**	100'/YES	170'/YES	YES	363/331	26mm (uni 3 RR)
CK2750G ▲▼▲▼▲▼▲▼▲▼▲▼	300'/Inserts*	100'/YES	200'/NO	YES	363/331	26mm (uni 3 RR)

* Different
Pendants

** Diff Backstops &
electrical
connectors

KOBELCO CRANES CO., LTD.



KOBELCO

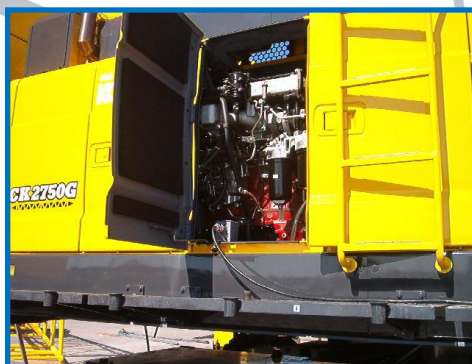
"G" SERIES

**REQUIRED TIER 3.5 ENGINE
COMBINED WITH KOBELCO FUEL SAVINGS TECHNOLOGY**

1.) TIER 3.5 HINO ENGINE WITH "DPR" and "EGR" TECHNOLOGY

REDUCES

- Particulate Matter
- NOx
- Noise Level



2.) EXCLUSIVE "G" MODES

- AIS
- G WINCH
- G ENGINE

(ALL OPERATOR SELECTABLE)

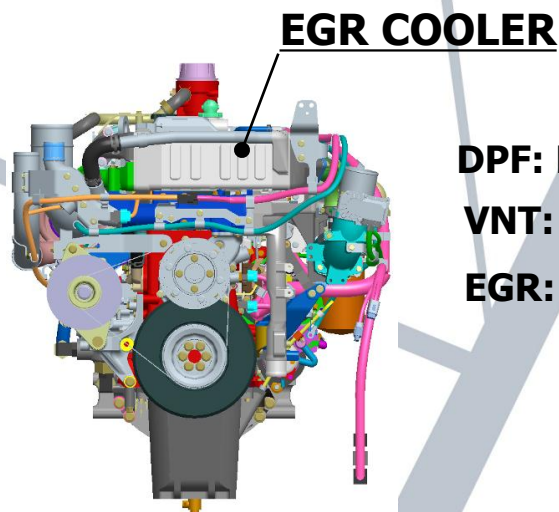
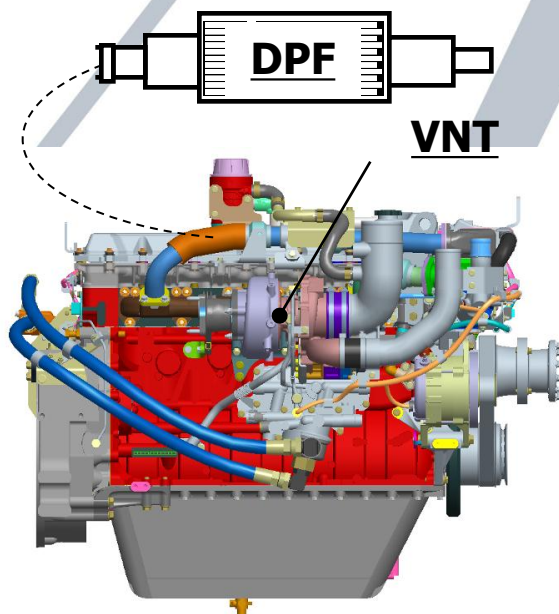


KOBELCO CRANES CO., LTD.



KOBELCO

REDESIGNED HINO ENGINES (TIER 3.5)



DPF: Diesel Particulate Filter
VNT: Variable Nozzle Turbo
EGR: Exhaust Gas Recirculation

KCNA & KCNA DEALERS REMAIN AS WARRANTY/SERVICE SUPPORT

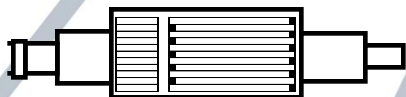
- Required fuel: Low Sulfur - containing 50ppm or less

KOBELCO CRANES CO., LTD.



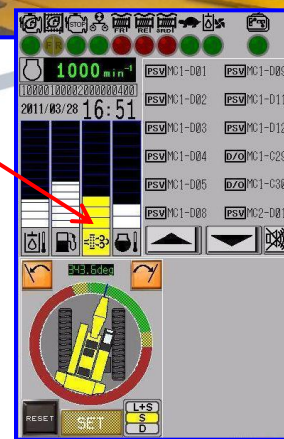
KOBELCO

WHAT IS A DIESEL PARTICULATE FILTER? (DPF)



LARGE FILTER THAT TRAPS DIESEL PARTICULATE MATTER & PERIODICALLY BURNS/CLEANS THE COLLECTED EXHAUST PARTICLES

- BURNS/CLEANS ITSELF AUTOMATICALLY EVERY 10 HOURS
- OPERATOR HAS OVER-RIDE OPTION
- GRADUATED SCALE WARNING DISPLAYS TO OPERATOR
- REPLACEMENT INTERVAL APPROX 4000 – 5000 HOURS



KOBELCO CRANES CO., LTD.

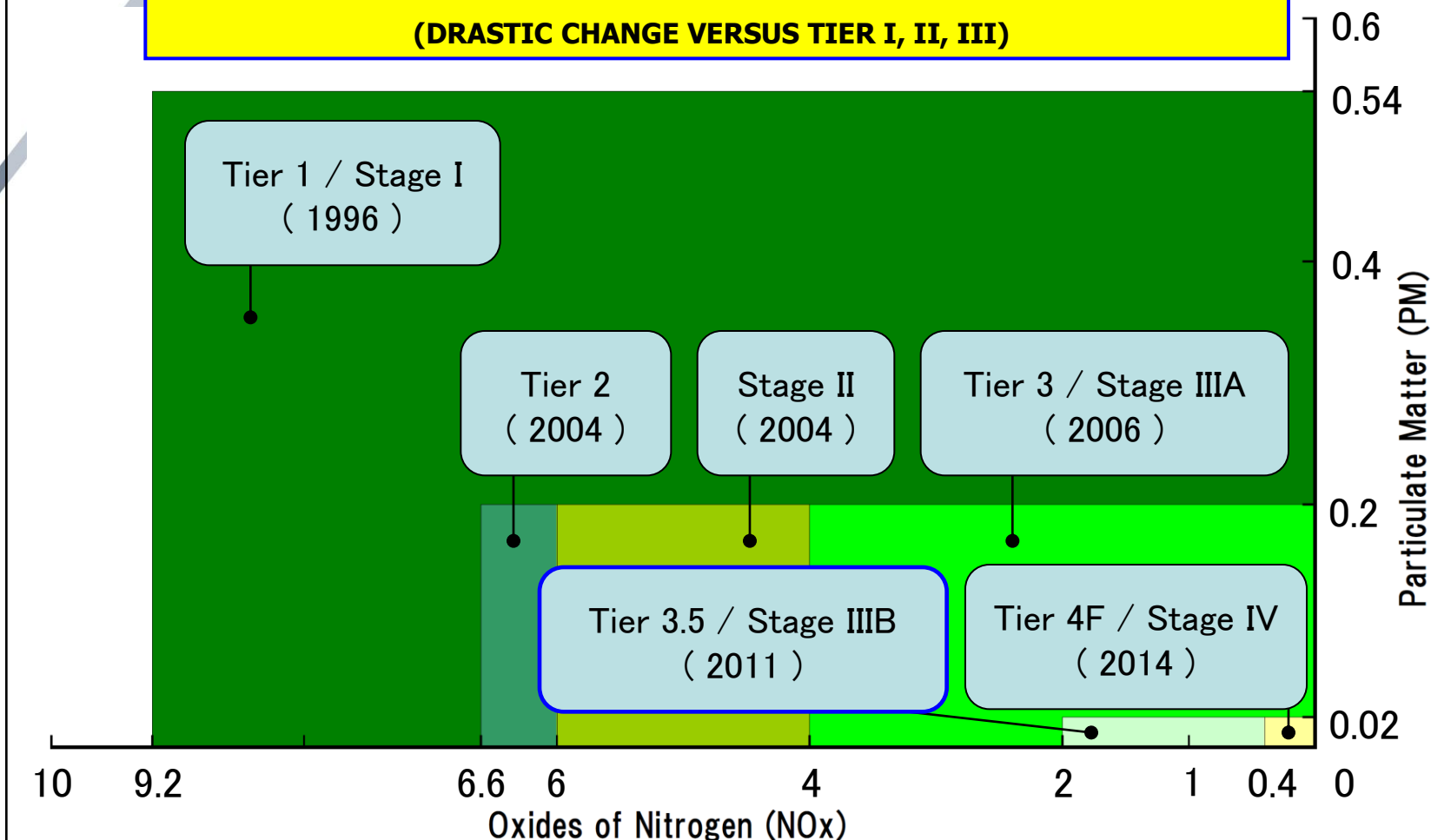


KOBELCO

EPA REQUIREMENTS

TIER 3.5 & TIER 4 EMISSIONS REDUCTION REQUIREMENT

(DRASTIC CHANGE VERSUS TIER I, II, III)



KOBELCO CRANES CO., LTD.



KOBELCO

WORLDWIDE EMISSION REQUIREMENTS

UNITED STATES

Safety: OSHA standard

Rating: ANSI standard

Emission: EPA Tier 3.5

EUROPEAN UNION

Safety: EN13000 standard

Rating: EN13000 standard

Emission: EURO Stage IIIB

JAPAN

Safety: Mobile crane standard

Rating: Mobile crane standard

Emission: 2011 Regulation

KOBELCO CRANES CO., LTD.



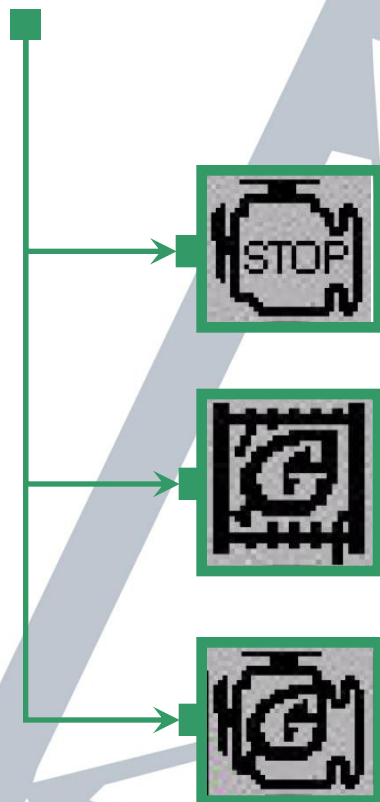
KOBELCO

EXCLUSIVE ENERGY/FUEL SAVING SYSTEM



3 BASIC MODES

ALL OPERATOR SELECTABLE



AIS MODE (Auto Idling Stop mode)

G-WINCH MODE (Green winch mode)

G-ENGINE MODE (Green engine mode)

KOBELCO CRANES CO., LTD.



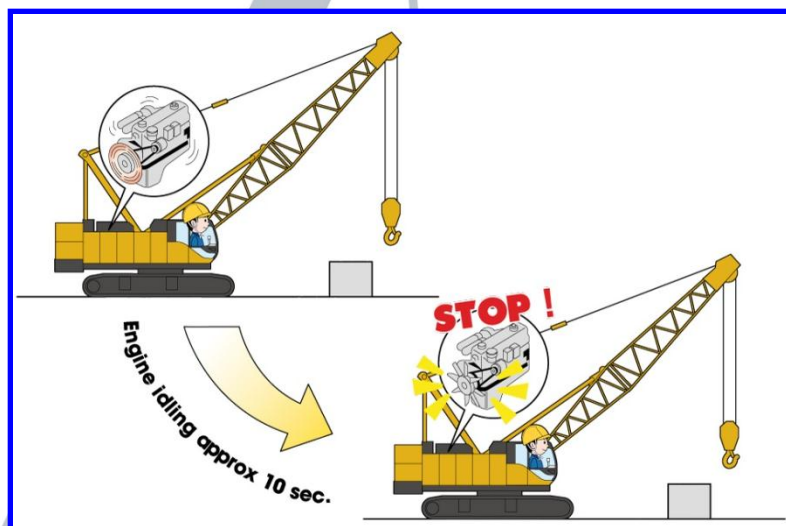
KOBELCO



AIS MODE

THE AIS MODE can conserve fuel by stopping the engine -**with an operator prompt** -after 10 seconds of idling time. Restarting the engine is simple by just twisting the accelerator grip.

AIS CONDITIONS OF OPERATION (SAFETY CONSIDERATION)...



NOTE: AIS air-conditioner is available in option.

- Hyd. Oil temperature : 60 F or less
- Coolant temperature : 105 F to 175F
- Low engine rpm : 800 +/-40 rpm
- Winch mode : Brake mode
- Boom angle : 5 degree before max. angle
- Lifting load : No. of reeving x 2,200 lbs. (max. 11,000 lbs)
- Swing parking brake : ON
- LMI release switch : LOCK
- Error code : None

KOBELCO CRANES CO., LTD.

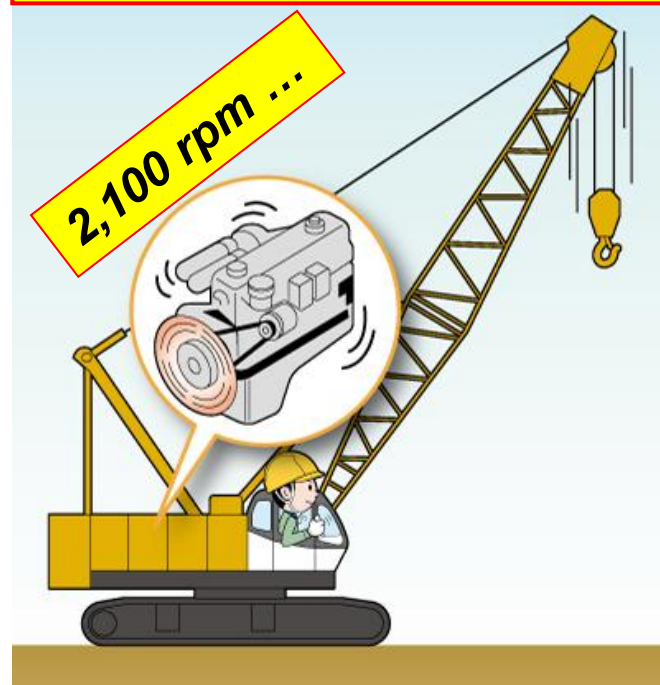


KOBELCO

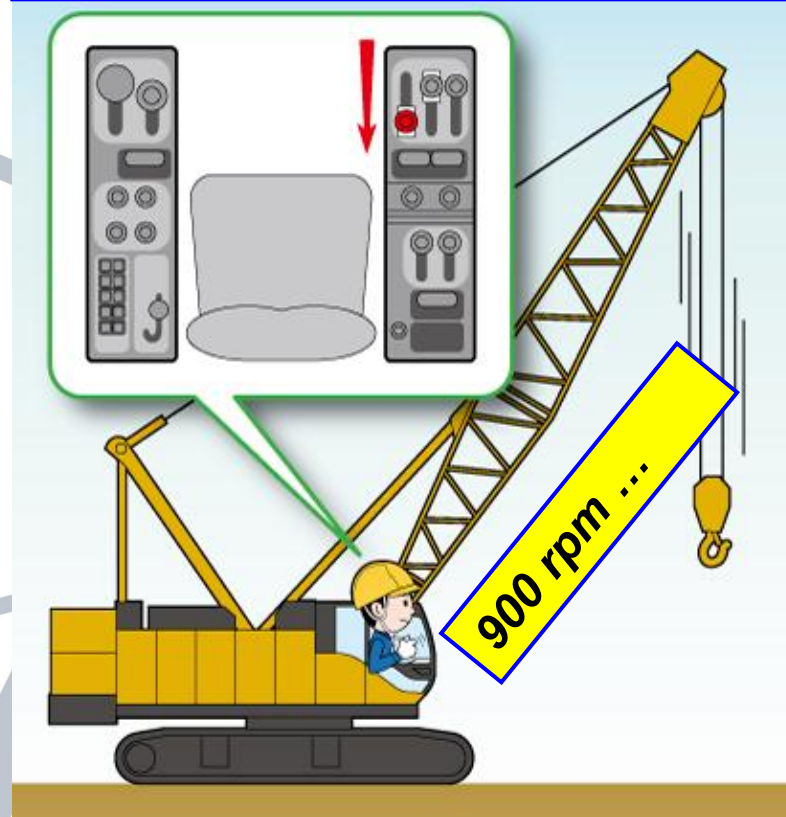


G-WINCH MODE

BEFORE – Even No-Load lifting required full engine RPM to obtain max line speed



NOW – THE G-WINCH MODE
Can produce maximum winch line speed –
EVEN AT LOW ENGINE RPM



KOBELCO CRANES CO., LTD.

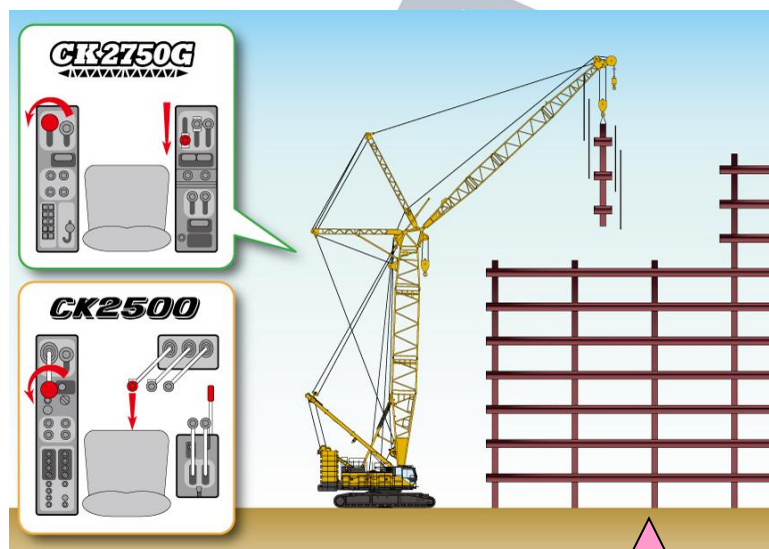


KOBELCO

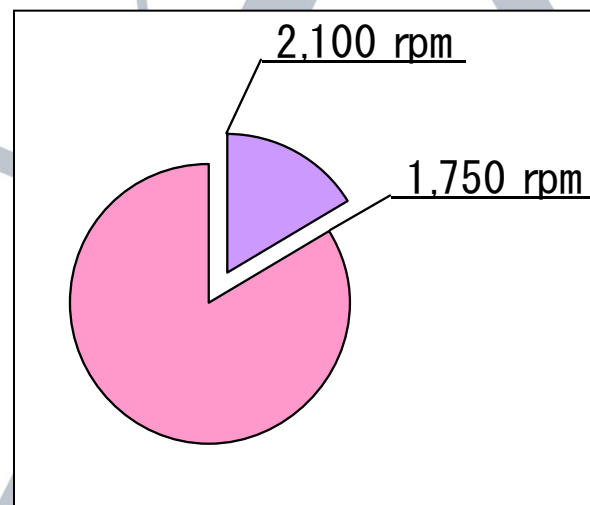


G-ENGINE MODE

THE G-ENGINE MODE -limits maximum engine speed to 1,750 RPM and controls the pumps to make engine operate in the most efficient condition.



Same speed



BEFORE – an operator may have chose to operate at full engine RPM but not engage the control lever fully, therefore using more fuel to produce the same line speed.

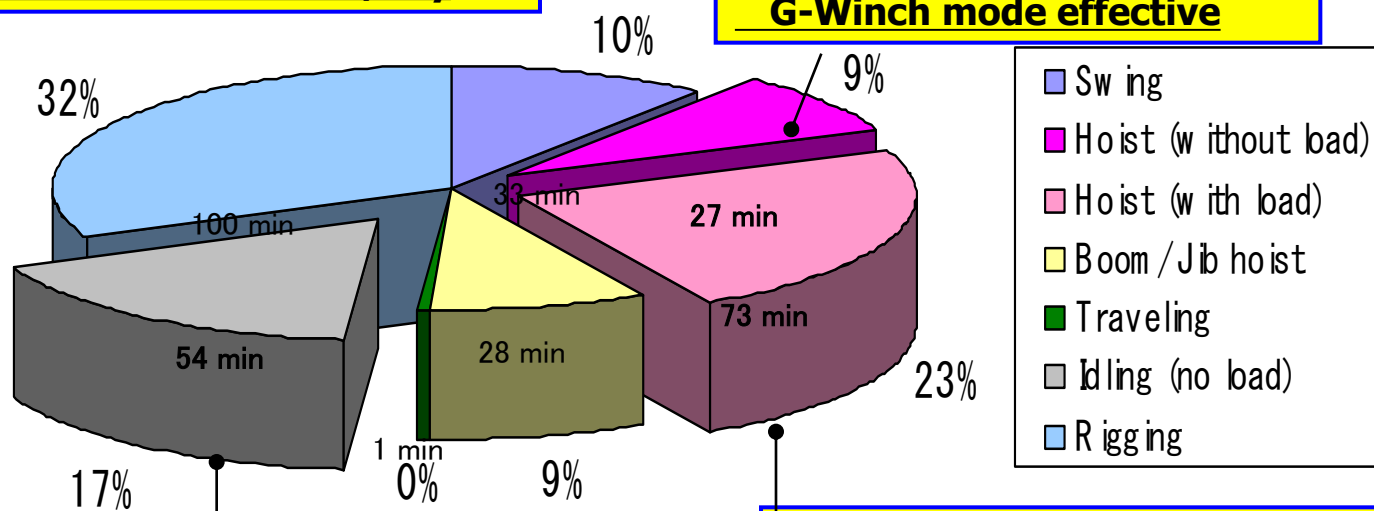
KOBELCO CRANES CO., LTD.



HOW MUCH FUEL CAN BE SAVED ?

ACTUAL JOB SITE DATA, constructing an 8 floor building with a Kobelco CK1600II Luffing Jib with 150ft main + 100ft jib, handling steel beams (2,200 lbs to 11,000 lbs). The graph shows daily operating minutes of each function as a percentage of total time.

Total minute : 317 min/day

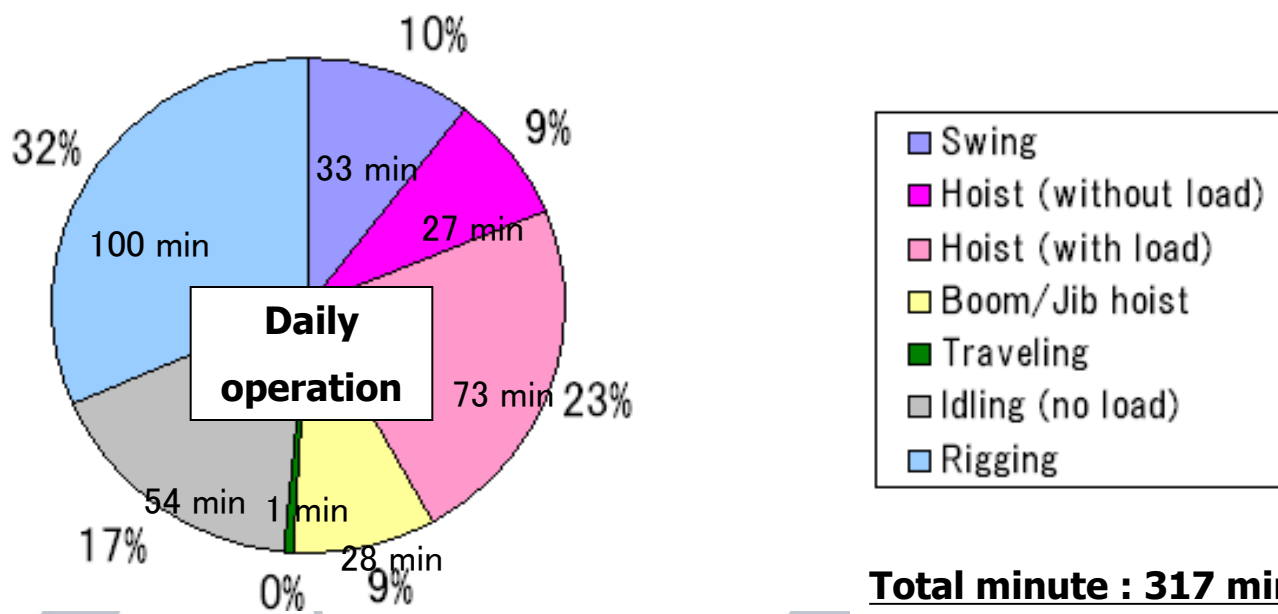




KOBELCO

FUEL SAVINGS CALCULATION

(From KCROSS info : 21.1 gal fuel used without G-modes)



G-MODE FUEL SAVINGS / BY MODE

+ AIS : 1.2 gal / day

+ G-Winch : 2.4 gal / day

+ G-Engine : 0.3 gal / day

TOTAL= 3.9 GALLON/DAY = 18% SAVINGS

KOBELCO CRANES CO., LTD.

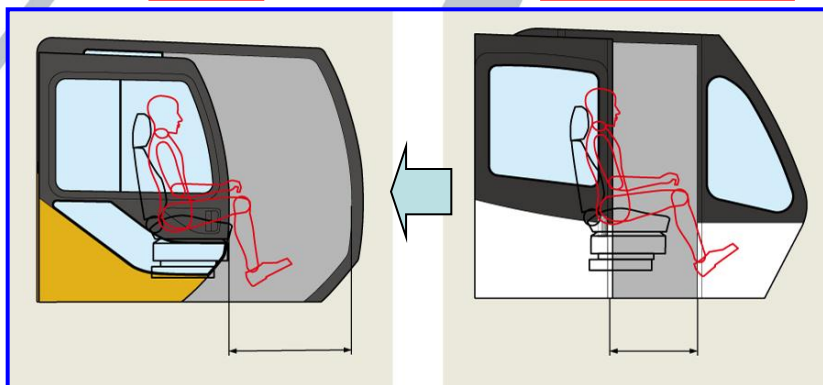


KOBELCO

NEW CAB DESIGN

NEW

PREVIOUS

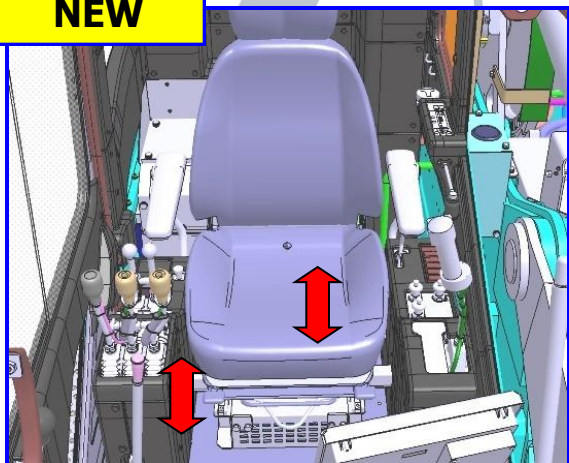


ISOLATED CAB BASE FRAME

*** Reduces vibration**

- ADDITIONAL LEG/FOOT ROOM
- EASE OF ENTRY
- WIDER DOOR

NEW



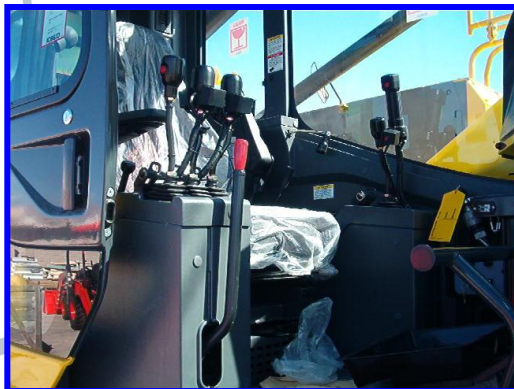
Independently adjustable lever position and operator seat.

KOBELCO CRANES CO., LTD.



KOBELCO

NEW CAB DESIGN



REPOSITIONED – HOIST CONTROL LEVERS - DRUM SPEED CONTROLS - TRAVEL CONTROLS

PREVIOUS

KOBELCO CRANES CO., LTD.



KOBELCO

NEW CAB DESIGN – CONTROL LAYOUT

- INCREASED OPERATOR'S FIELD OF VISION
- INCREASED AIR CONDITIONER OUTPUT + 10%

NEW



PREVIOUS

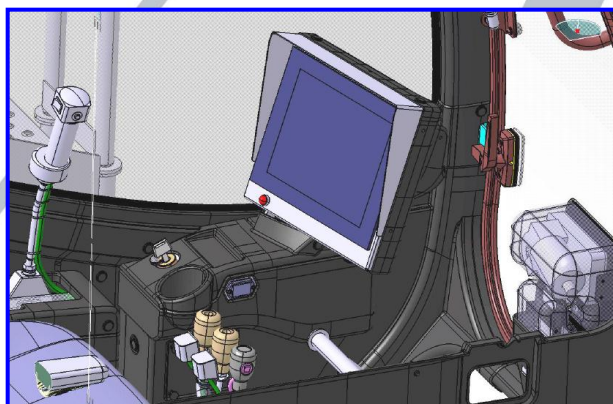


KOBELCO CRANES CO., LTD.



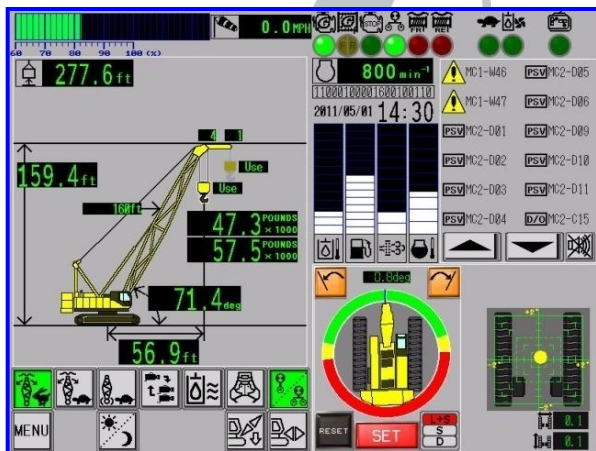
KOBELCO

NEW CAB - LMI



KOBELCO DESIGNED & WARRANTED

12" touch panel screen with sunshade & screen protector –



EASY TO PROGRAM –

Easy to read and understand information



PREVIOUS LMI

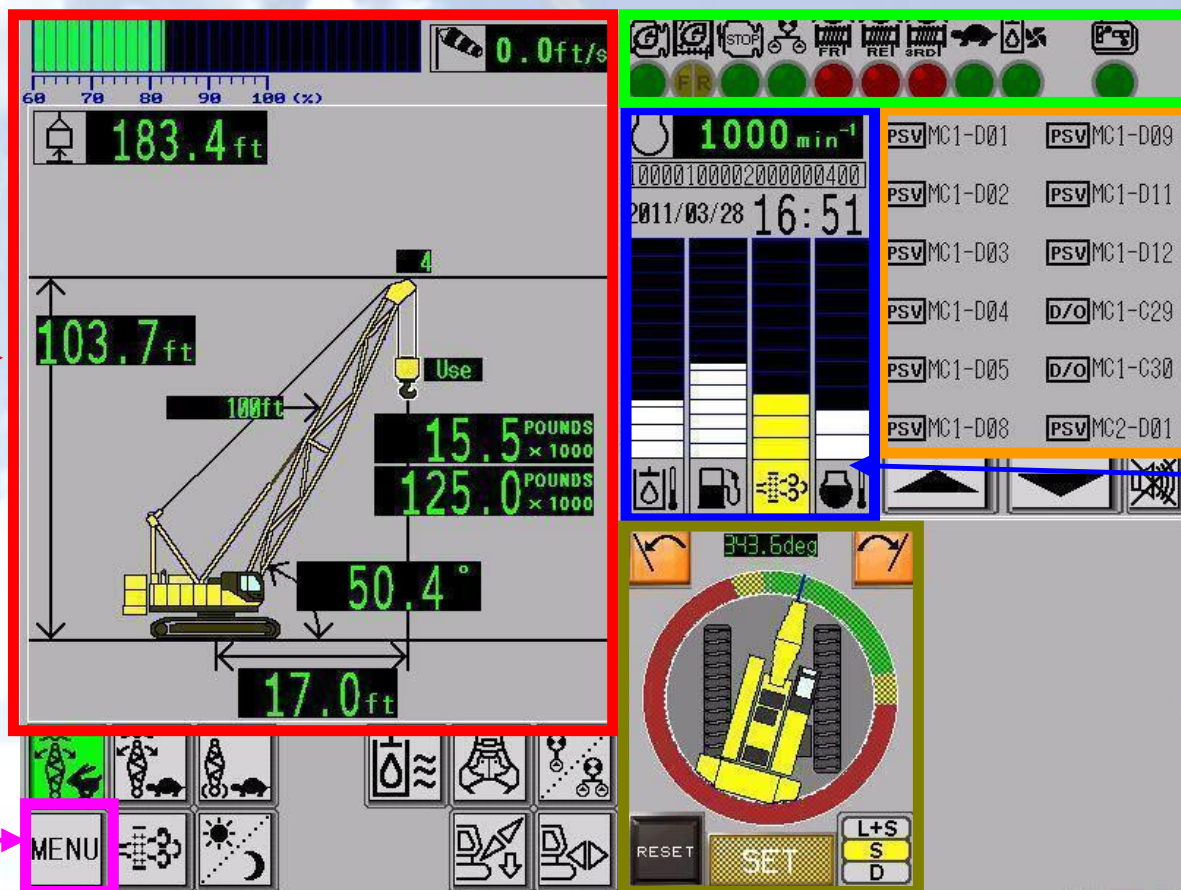


PREVIOUS GAUGE CLUSTER

KOBELCO CRANES CO., LTD.



Monitor Overview



Moment
Limiter

Menu
Button

Mode
ON/OFF
Indicators

Error /
Warning
Display

Gauges

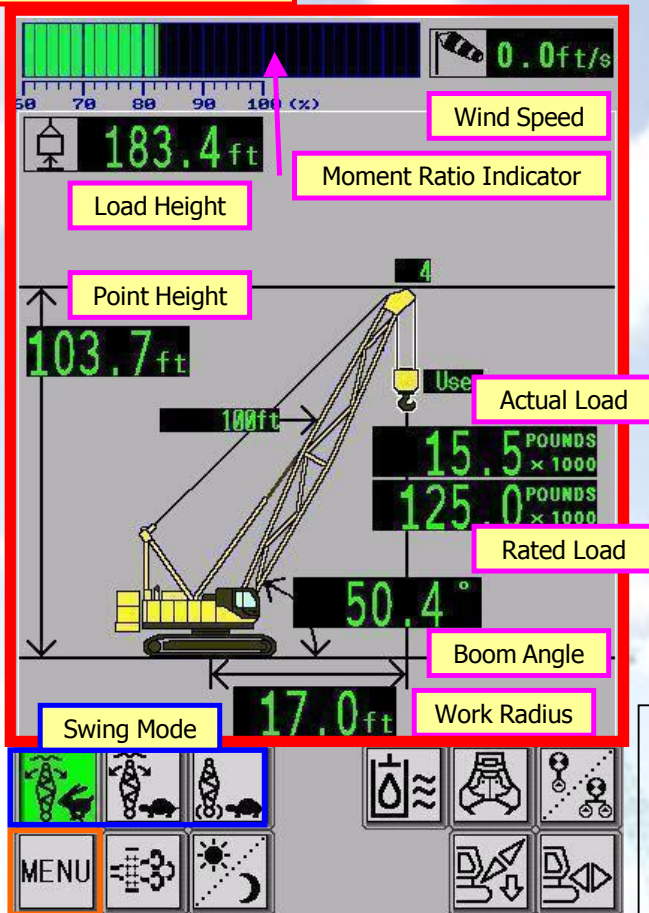
Swing
Limitation
Device

Keep this inside the cab



[Left Side] Moment Limiter

Moment Limiter



Keep this inside the cab

Adjustment Menu

Set Date/Time

Lever Detent

Brightness

Warning/Stop Select

Drum Rope Layer

Wind Speed Warning

Main Menu

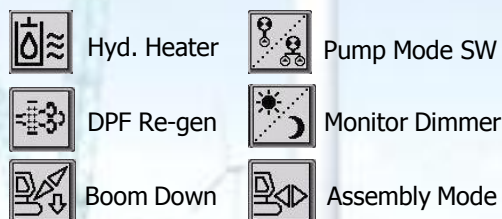
Crane Config.

Angle/ Radius Limiter

Self Check Mode

Adjustment Mode

Service Mode





[Right Side] Gauges

G^{mode} Indicators

G-Engine
G-Winch
AIS (Auto Idling Stop)

Mode ON/OFF Indicators

Dual Pump Mode
Free Fall Mode
Inching Mode
Oil Cooler
Remote

1000 min⁻¹
2011/03/28 16:51

PSV MC1-D01 PSV MC1-D09
PSV MC1-D02 PSV MC1-D11
PSV MC1-D03 PSV MC1-D12
PSV MC1-D04 D/O MC1-C29
PSV MC1-D05 D/O MC1-C30
PSV MC1-D08 PSV MC2-D01

343.6deg

RESET SET L+S S D

- Hyd. Oil Temp. Gauge
- Fuel Gauge
- Soot Accum. Gauge
- E/G Coolant Temp. Gauge

Click on warning to see the details!

PSV MC1-D03

Swing Limitation Device

Allowed
Pre-warning
Prohibited

Left Limit Set
Right Limit Set

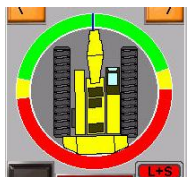
L+S Alarm & Stop
S Alarm only
D Display only

Keep this inside the cab

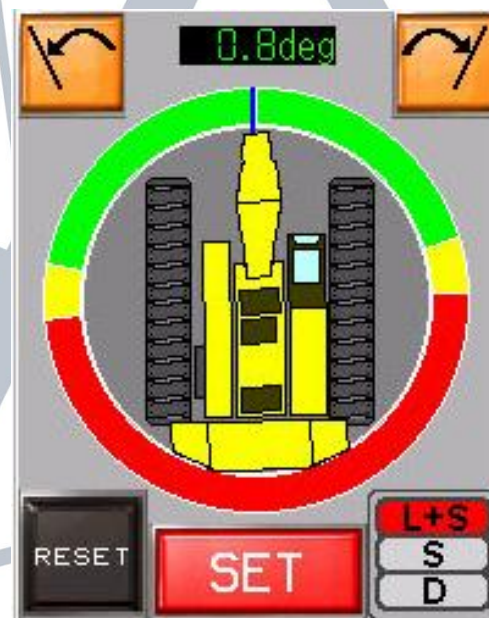
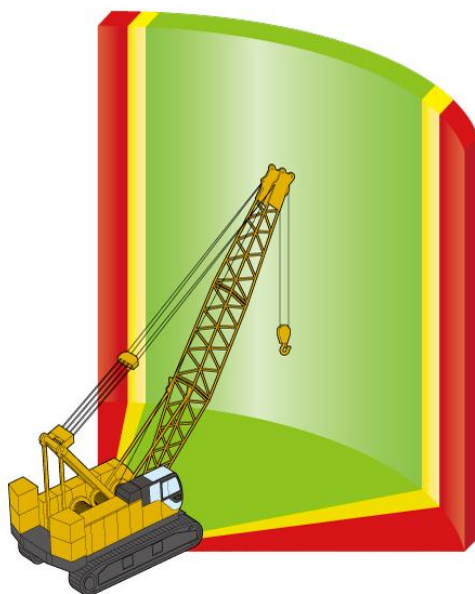


KOBELCO

SWING LIMITER



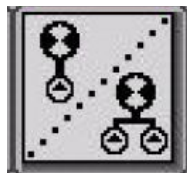
ENSURES ADDITIONAL JOBSITE SAFETY



3 MODES – OPERATOR CHOOSES

D MODE: WARNING LIGHT S MODE: ALARM LS MODE: ALARM & STOP

KOBELCO CRANES CO., LTD.

**KOBELCO**

IMPROVED HYDRAULIC CONTROL CIRCUIT



"SINGLE" OR "DOUBLE" - PUMP FLOW ABILITY

SINGLE PUMP

- ALLOWS TWO WINCHES TO BE CONTROLLED INDEPENDENTLY
- * LUFFING

DOUBLE PUMP

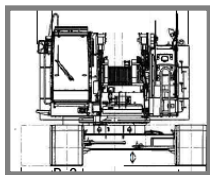
- MAXIMIZE SPEED IN SINGLE LINE OPERATION
- SYNCHRONIZE SPEED IN DOUBLE LINE OPERATION
- * STEEL ERECTION
- * BRIDGE WORK
- * CLAMSHELL
- * PILEDRIVING

MODEL	HYD PUMP FLOW	OPERATOR SELECT	HYD PUMP FLOW	OPERATOR SELECT	MODEL
CK850G ▲▲▲▲▲▲▲▲▲▲	DUAL	NO	SINGLE	NO	CK850III
CK1100G ▲▲▲▲▲▲▲▲▲▲	DUAL	NO	DUAL	NO	CK1000III
CK1200G ▲▲▲▲▲▲▲▲▲▲	SINGLE or DUAL	YES	SINGLE	NO	NOT AVAIL
CK1600G ▲▲▲▲▲▲▲▲▲▲	SINGLE or DUAL	YES	SINGLE	NO	CK1600II
CK2750G ▲▲▲▲▲▲▲▲▲▲	SINGLE or DUAL	YES	SINGLE	NO	CK2500II

KOBELCO CRANES CO., LTD.



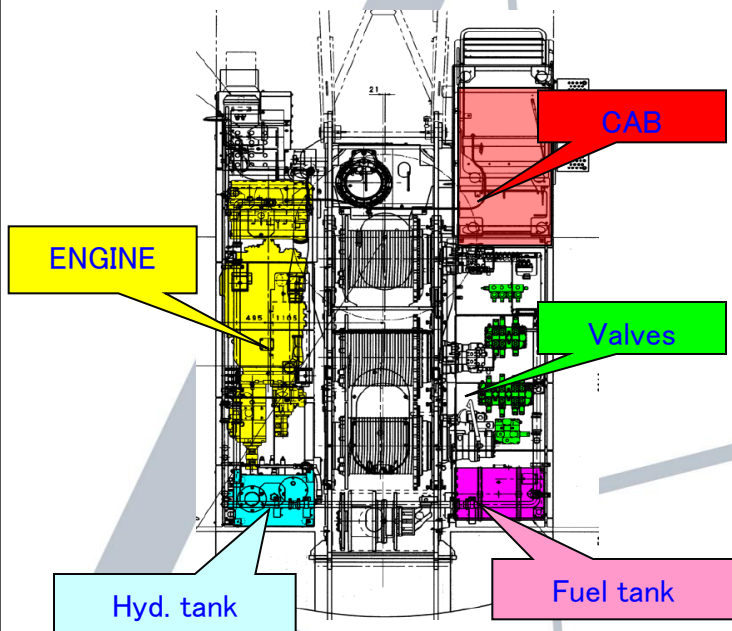
KOBELCO



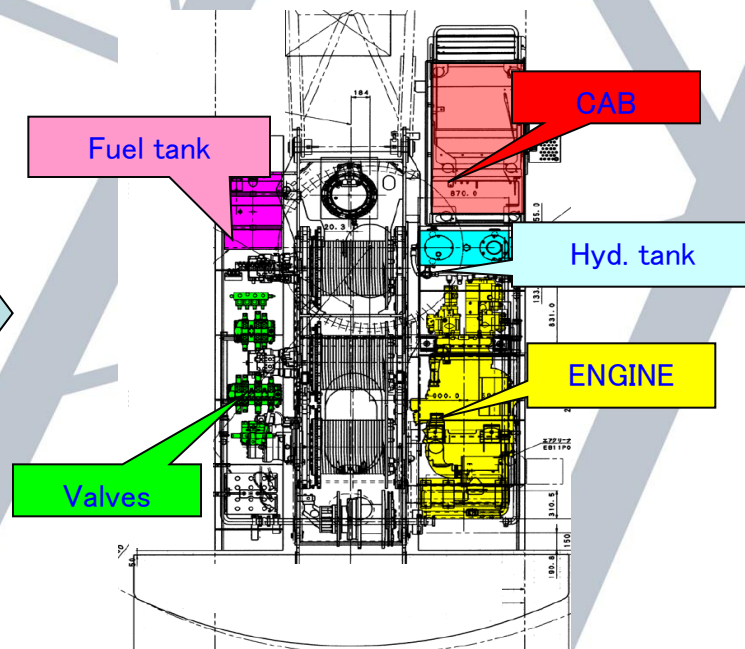
REDESIGNED COMPONENT LAYOUT

- REDUCTIONS IN TRANSPORT WIDTH
- REDUCTIONS IN TRANSPORT WEIGHT

PREVIOUS



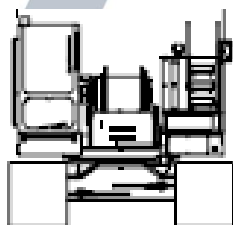
NEW



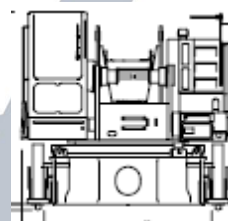
KOBELCO CRANES CO., LTD.

REDUCED TRANSPORT WIDTH

MODEL	TRANSPORT WIDTH	TRANSPORT WIDTH	MODEL
CK850G	11' 10"	11' 6"	CK850III
CK1100G	11' 10"	11' 10"	CK1000III
CK1200G	9' 10"	10' 6"	NOT AVAIL
CK1600G	9' 10"	11' 3"	CK1600II
CK2750G	9' 10 "	11' 2"	CK2500II

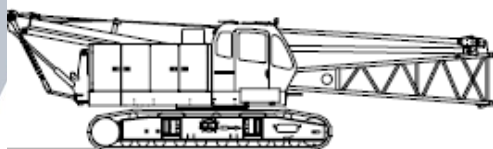


CK850 & CK1000/1100

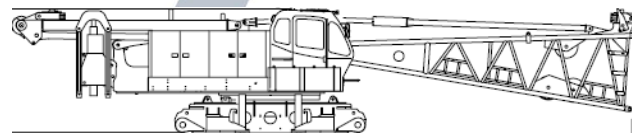


CK1200, CK1600, CK2750

REDUCED TRANSPORT WEIGHT

[illegible]

CK850 & CK1000/1100



CK1200 & CK1600



CK2500/2750



KOBELCO



CK850G - CK1100G - CK1200G ASSEMBLY IMPROVEMENT

NEW REAR COUNTERWEIGHT



PREVIOUS CWT



NEW ON CK110G - SWING AWAY AXLE EXTENSIONS



NEW ON CK1100G



PREVIOUS ON CK1000

- **QUICKER ASSEMBLY**
- **EASIER TO HANDLE/RIG**
- **EASIER TRANSPORT**
- **COMMONALITY**

KOBELCO CRANES CO., LTD.



KOBELCO

INCREASED TRAVEL MOTOR TORQUE

APPROX 5% - 10% INCREASE



CK850G

CK1100G

CK2750G

IMPROVED TRAVEL/COUNTER-ROTATION IN ADVERSE GROUND CONDITIONS

KOBELCO CRANES CO., LTD.



KOBELCO

IMPROVED WIRING CONNECTION

UNIQUE CONNECTORS

ALL MODELS – IN UPPER FRAME BASE



CK2750G – ADD'L CONNECTIONS IN BOOM BASE

KOBELCO CRANES CO., LTD.



KOBELCO

IMPROVED MAINTENANCE ACCESS

NEW LADDER FOR ACCESS TO UPPER



HANDRAILS



KOBELCO CRANES CO., LTD.



KOBELCO

G series



THANK YOU!

KOBELCO CRANES CO., LTD.