

PURPOSE

This document outlines the configure-to-order (CTO) model: BB3, to be built in the configuration software: Configure One (C1), which pertains to Harrington Hoist’s series 3 & HPC end-truck bridge beam designs as well as any accessories (BAK) related to the bridge beam.

SCOPE

Herein, the internal resources used to build the model shall be listed. Critical data related to model input and output shall be documented.

REFERENCES

1. EDOC0002 - Single Girder Beam Chart
2. EDOC0003 - Double Girder Bridge Beam Chart
3. EDOC0086 - N6 Hardware Kits
4. EDOC0096 - Series 3 Single Girder Crane System Specifications
5. EDOC0180 - HPC500 Series Crane System Specifications
6. EDOC0205 - HPC500 Hardware Kits
7. EDOC0366 - RHA Beam Chart
8. EDOC0367 - Single Girder Beam Chart
9. EDOC0665 - RHN Single Girder Bridge Beam Chart
10. EDOC1191 - Series 3 Bridge Beam Product Rules

MODEL IDENTIFICATION

1. C1 Model Name: BB3
2. JDE Invocation: CTOBB3
 - A. Using sales order quote or entry screens in JDE, when entered into the 3rd item number field, this text will open a new tab in the browser and enter the BB3 model.
3. C1 Product ID: 140362407
 - A. Key in C1 for BB3 model

CORE REPORTING DATA

Item	BBAO	BBAL	BAK
SRP1	D00		
SRP2	D09		
SRP3	E05	E04	E02
SRP4	not used		

SRP5	not used		
SRP6	2500		
SRP7	ETO	ETO	ETO
SRP8	not used		
SRP9	001-200		
SRP10	not used		

Table 1: Core reporting data.

DRAWINGS

DWG	Desc	Top/Btm	Girder	Motor	Notch	RHN	FC	Cap-Span
62382	UMX-3-0235 TO 0350	BTM	SG	Y	N	N	N	0350
62383	UMX-3-0535 TO 0550	BTM	SG	Y	N	N	N	0550
62384	UG-3-0235 TO 0350	BTM	SG	N	N	N	N	0350
62385	UG-3-0535 TO 0550	BTM	SG	N	N	N	N	0550
62386	MUMX-3-0235 TO 0350	BTM	DG	Y	N	N	N	0350
62386FC	MUMX-3-0235 TO 0350 FLAT CABLE	BTM	DG	Y	N	N	Y	0350
62387	MUMX-3-0535 TO 0550	BTM	DG	Y	N	N	N	0550
62387 FC	MUMX-3-0535 TO 0550 FLAT CABLE	BTM	DG	Y	N	N	Y	0550
62388	MUG-3-0235 TO 0350	BTM	DG	N	N	N	N	0350
62389	MUG-3-0535 TO 0550	BTM	DG	N	N	N	N	0550
62446	TMX-3-0560	TOP	SG	Y	Y	N	N	0560
62447	TG&P-3-0550	TOP	SG	N	Y	N	N	0550
62448	TMX-3-1035 TO 1060	TOP	SG	Y	Y	N	N	1060
62458	TMX-3-0135 TO 0160	TOP	SG	Y	Y	N	N	0160
62459	TMX-3-0335 TO 0360	TOP	SG	Y	Y	N	N	0360
62460	TMX-3-0535	TOP	SG	Y	Y	N	N	0535
62463	TP&G-3-0135 TO 0160	TOP	SG	N	Y	N	N	0160
62464	TP&G-3-0335 TO 0360	TOP	SG	N	Y	N	N	0360
62465	TP&G-3-0535	TOP	SG	N	Y	N	N	0535
62467	MTMX-3-0135 TO 0160	TOP	DG	Y	Y	N	N	0160
62468	MTMX-3-0335 TO 0360	TOP	DG	Y	Y	N	N	0360
62468- FC	MTMX-3-0335 TO 0360	TOP	DG	Y	Y	N	Y	0360
62469	MTMX-3-0535	TOP	DG	Y	Y	N	N	0535
62469 FC	MTMX-3-0535 FLAT CABLE	TOP	DG	Y	Y	N	Y	0535
62470	MTG-3-0135 TO 0160	TOP	DG	N	Y	N	N	0160
62471	MTG-3-0335 TO 0360	TOP	DG	N	Y	N	N	0360
62472	MTG-3-0535	TOP	DG	N	Y	N	N	0535

62528	MTMX-3-0560	TOP	DG	Y	Y	N	N	0560
62528 FC	MTMX-3-0560 FLAT CABLE	TOP	DG	Y	Y	N	Y	0560
62530	MTMX-3-1060	TOP	DG	Y	Y	N	N	1060
62530- FC	MTMX-3-1060 FLAT CABLE	TOP	DG	Y	Y	N	Y	1060
62583	UMX-3-0235 TO 0350 NOTCHED	BTM	SG	Y	Y	N	N	0350
62584	UMX-3-0535 TO 0550 NOTCHED	BTM	SG	Y	Y	N	N	0550
62585	UG-3-0235 TO 0350 NOTCHED	BTM	SG	N	Y	N	N	0350
62586	UG-3-0535 TO 0550 NOTCHED	BTM	SG	N	Y	N	N	0550
62734	UMX-3-1050	BTM	SG	Y	N	N	N	1050
62821	UMX-3-0650	BTM	SG	Y	N	N	N	0650
62828	UMX-3-1050 NOTCHED	BTM	SG	Y	Y	N	N	1050
62830	MUMX-3-0650	BTM	DG	Y	N	N	N	0350
62856	TMX-3-0360 RHN	TOP	SG	Y	Y	Y	N	0360
62857	UMX-3-0235 TO 0350 RHN	BTM	SG	Y	N	Y	N	0350
62858	UMX-3-0235 TO 0350 RHN NOTCHED	BTM	SG	Y	Y	Y	N	0350
62859	TMX-3-0560 RHN	TOP	SG	Y	Y	Y	N	0560
62860	UMX-3-0535 TO 0550 RHN	BTM	SG	Y	N	Y	N	0550
62861	UMX-3-0535 TO 0550 RHN NOTCHED	BTM	SG	Y	Y	Y	N	0550
62907	TMX-3-1060 RHN	TOP	SG	Y	Y	Y	N	1060
62931	TMX-3-1560	TOP	SG	Y	Y	N	N	1560
62672	HPC500 Top Running Bridge Beam Assembly	TOP	SG	N	N	N	N	520
62673	HPC500 Underhung Bridge Beam Assembly	BTM	SG	N	N	N	N	520

Table 2: Bridge Beam drawings included in the scope as standard designs.

GENERAL OUTPUT

- BOM: The model shall output all necessary BOM items including stock parts, raw materials, kits, labels, & literature.
- Extended Description: a full extended description including the below items.

Field	Title	Example
UDF11	Assy/Kit	Bridge Beam Assembly
UDF12	System	Top Running, Single Girder
UDF13	Beam; Cap; Rail	W33x169 w/ MC18x42.7
UDF14	Span; Overhangs	59' - 2 1/2" Span; Std. Overhangs
UDF15	Capacity	7.5 M Ton Capacity
UDF16	Hoist	For ER2 Hoist

UDF17	Special Notch	Special Notch Design (U = 8.5")
UDF18	Finish	Standard HHI Yellow Paint
UDF39	Engineering	Engineering Required: #SP_Notch

Table 3: Extended description

- Routing Document: A document will be output from the configurator that will provide a guideline, and may be copied by CEG, in order to populate the actual routing. This will include cut lengths, if needed.
- Drawing: crane outline drawings are not included in the initial output of this model but shall be considered for future improvements. An initial step may be taken by creating a second output document for the model which shall include all dimensions that may match to an outline drawing.

AUTOMATIC ETO FLAGS

- All: as routings still have to be manually generated, all configurations will be flagged as ETO.
- #SP_Beam: For instances where a beam has been selected that does not match the recommendations of the established HHI Beam Charts
- #SP_Notch: For instances where non-standard notch dimensions are requested.
- #Cantilever: For instances where non-standard cantilever dimensions are requested.

ACTIONS

1. Complete revisions to bridge beam designs under AK023 (Where to Fissure) to clarify end plate B and notch designs.
2. Complete revisions to brace designs under AK043 to consolidate designs.
3. Following revision to EDOC0086, complete revision of bridge beam BOMs in all drawings similar to that of dwg 62382.
4. Revise necessary geared prints to correct designs for drive shaft assemblies (DSA).
5. Revise all End Plate A & End Plate B part numbers that have not all ready been revised to use a blank/phantom format (e.g.: B008-600-XXXX) which may, in the future & based on use, be converted to a Make part.
6. Consolidate all "FC" DG drawings into single drawing (merge with non-FC versions).
7. Verify all part details in drawings are uniform; add end stop sizes where needed.
8. Revise EDOC1191 to include all product rules
9. Verify all product data in JDE for items included in BB3.
10. Advise on parts that should be stocked.
11. Develop BB3 CTO model
12. Develop DSA CTO model in ETO.

RECOMMENDATIONS

1. Automate routings
2. Output weight of assembly
3. Perform engineering calculations on bridge beam
4. Automate crane outline

END