

Pulp Press Bridge Crane

KONECRANES®

Lifting Businesses™

4/23/12

Appleton Papers
100 Papermill Road
Roaring Spring, PA 16673-1488
Attn: Dan Hershberger

Reference: CPA042312RWN01 3-ton Harrington Bridge Crane.

Dear Dan:

Konecranes is pleased to offer the following quotation to a 3-ton manual bridge crane:

Qty.	Description	Part #	Notes
1 pr.	End Truck Code	TG-3-0335	
	Type	Top Running Geared	
	Span	22 ft.	
	Hand Chain Drop	8 ft.	
	Capacity	3 ton	Over All Length 23 ft.
	Advise:	Runway Rail Size	
**	Suggested rail size is 30-40# ASCE or 1 1/2" square bar, due to the guide rollers extending 1 1/8" below the drive wheel running surface **		
1 ea.	Drive shaft assembly	DSA	
1 ea.	Bridge Beam Assembly Code	BBAO	
	Beam specifications	s15 x 42.9# w/ C8 x 11.5# cap	
	Flange Thickness	5.50"	
1 ea.	Beam accessory kit	BAK	
1 ea.	Trolley/ hoist	CF030/ GTF2030	
	Type	Manual hand chain w/ geared trolley	
	Capacity	3 ton	Headroom 29.5"
	Lift	10 ft.	
	Hoist hand chain	8.5 ft.	
	Trolley hand chain	8 ft.	
	Trolley flange range	3.23" - 6.02"	

Material Cost: \$8,971.00

Approval drawings are provided within 5 working days after receipt of order.
Shipment is 7-8 weeks after receipt of signed approval drawings and is subject to stock availability at time of order entry. F.O.B. Manheim, PA – Freight allowed on 500# and over to single destination within the continental U.S.A.

Shipment of all components above qualifies for prepaid freight.

Crane components are shipped unassembled, match-marked for assembly and are painted Harrington yellow.

Please note that **shipping, taxes**, and any other item not specifically listed in the preceding quotation have **not been included** in your final cost.

This quote/proposal is subject to the Konecranes, Inc. d/b/a Crane Pro Services Standard Terms and Conditions of Sale (Revision 082207), a copy of which is attached hereto or otherwise available upon request and the terms of which are incorporated as if fully rewritten herein.

Should you have any questions or would like to place an order, please give us a call or contact our Service Department at 814-237-2663. For installation assistance, please feel free to call on us as we have local technicians in the area available to assist.

Best regards,
Konecranes

Richard Nixon
Branch Manager
State College, PA
PH: 814-237-2663
FX: 814-237-2662

Installation per J. Linde
3-8hr days @ \$75/hr
or \$1,800

Order Number 304238 000 OF

Branch/Plant 1030

Shipped From KONECRANES, INC.

Ship To Roaring Spring Mill

143 HAWBAKER INDUSTRIAL DRIVE SUITE 108

100 Paper Mill Road

STATE COLLEGE PA 16803

Roaring Spring PA 16673

Ordered 08/13/12 Freight

Requested 08/13/12 Order Taken By

Currency Code USD

Base Currency USD

Delivery

Reference Konecranes Proposal CPA42312RWN01 3-ton Harrington Bridge Crane dated 4/23/12

Appleton Contact: Dan Hershberger 814-224-6303

Pulp Press Bridge Crane Project

Please supply (1) electronic copy and (3) hard copies of the certified installation, operation & maintenance manual, drawings, spec sheets, pump curve, or any other technical data for the equipment being purchased to:

Engineering Secretary

100 Paper Mill Road

Roaring Spring PA 16673

ctipton@appletonideas.com <mailto:ctipton@appletonideas.com>

Stainless steel tags shall be permanently attached designating the API equipment number and service.

API Equipment No. 009.26-011.00

Service: Pulp Press Bridge Crane

Line	Rev	Description	Ordered	UOM	Unit Price	PU UM	Extended Price	Request Date	Order No	Ty
1.000	0	3 Ton Bridge Crane	1.0000	EA	8,971.0000	EA	8,971.00	08/13/12		
3 Ton Harrington Bridge Crane System:										
Bridge - Top Running Geared										
1 pr. End Truck Code TG-3-0335										
Span - 23' - Note this is a change from Original Quote!										
Hand Chain Drop - 8'										
Capacity 3 Ton										
Runway Rail Size ASCE #30										
1 ea. Drive Shaft Assembly DSA										
1 ea. Bridge Beam Assembly Code BBAO										
Beam Specifications: S15x42.9 w/C8x11.5 cap										
Flange Thickness 5.50"										
1 ea. Beam Accessory Kit BAK										
Trolley/hoist CF030/GTF2030										
Type Manual hand chain w/geared trolley										
Capacity 3 Ton										
2.000	0	Installation	1800.0000	DO		1.0000 DO	1,800.00	08/13/12		

Provide labor and equipment required to install crane system. Costs are estimated.

R43500

08/13/12

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Order Number 304238 000

OF

Line	Rev	Description	Ordered	UOM	Unit Price	PU UM	Extended Price	Request Date	Order No	Ty
Total Order							10,771.00			
Sales Tax							Total Order			
Term	Net 30 Days		Tax Rate	*NA*		.00	10,771.00			

OFFER

Handled by: Cody Kissell
Offer date: 10/1/2012 / Revision none
Offer number: CPA100112CGK115

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Lifting Businesses™

Page 1

Customer: Appleton Paper
Address: 100 Paper Mill Rd.
Roaring Spring, PA 16673-1488
USA

Reference: SP26
Inquiry date: 10/1/12
Subject: (2) 1.5T HCH (1) 3T HCH
Contact person: Dan Hershberger
Customer Email: dhershberger@appletonideas.com
Customer Fax:

Thank you for the opportunity to be of service. This proposal details Konecranes supplying (2) 1.5 Ton Hand Chain Hoists with Push Trolley and (1) 3 Ton Hand Chain Hoist with Push Trolley.

Konecranes is pleased to offer the following proposal for your consideration and approval.

Scope and Pricing

(1) Harrington CB015 1.5 ton Hand Chain Hoist w/ 15' of lift (Stud Mounted)	\$1,229.50(ea)
(1) Harrington PT020 2-ton Push Trolley	\$266(ea)
Total x2	\$2,991.00

(1) Harrington CB030 3 ton Hand Chain Hoist w/ 15' of lift (Stud Mounted)	\$1,929.50(ea)
(1) Harrington PT030 3-ton Push Trolley	\$408(ea)
Total	\$2,337.50

Pricing Summary

Total Cost- \$5,328.50

****Price does not include shipping and handling**

Lead time

10-14 Days from receipt of order

This quote/proposal is subject to the Konecranes, Inc. d/b/a Crane Pro Services Standard Terms and Conditions of Sale (Revision 082207), a copy of which is attached hereto or otherwise available upon request and the terms of which are incorporated as if fully rewritten herein.

Price quoted is based on clear access to the work area and work being completed during a normal workday. It is our intent to work with our customer's production schedule as much as possible. However, please note that quoted prices are based upon the equipment being available to the service technician(s) at the expected time of

OFFER

Offer number: CPA100112CGK115

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Lifting Businesses™

arrival through completion of the required work. Any unexpected delays caused by the customer will be charged at the applicable hourly rate.

All concealed damages and/or items found necessary to be repaired or replaced upon start of the above items, and not readily apparent prior to the beginning of the work, and not otherwise covered by the purchase order, shall be brought to your immediate attention and a price for said work agreed upon prior to proceeding with the repairs.

Payment terms

All payments net in 14 days.

Validity of the offer

This offer is valid until 11/1/12

We understand and appreciate the urgency of completing this installation, will order parts/confirm scheduling promptly after receipt of your notification authorization. Please feel free to contact us at any time for any reason.

We sincerely appreciate your consideration and look forward your acceptance.

Yours truly
Konecranes, Inc.

Cody Kissell
PH: 814-237-2663
FX: 814-237-2662

Order Number 377225 000 OF

Branch/Plant 1030

Shipped From KONECRANES, INC.

143 HAWBAKER INDUSTRIAL DRIVE SUITE 108
STATE COLLEGE PA 16803

Ship To Roaring Spring Mill

100 Paper Mill Road
Roaring Spring PA 16673

Ordered 10/16/12 Freight

Requested 10/31/12 Order Taken By

Currency Code USD

Base Currency USD

Delivery

Pulp Press Bridge Crane Project No. 0015M001

Appleton Contact: Dan Hershberger 814-224-6303

Reference Konecrane Offer No. CPA100112CGK115

Please supply (1) electronic copy and (3) hard copies of the certified installation, operation & maintenance manual, drawings, spec sheets, pump curve, or any other technical data for the equipment being purchased to:

Engineering Secretary

100 Paper Mill Road

Roaring Spring PA 16673

ctipton@appletonideas.com <mailto:ctipton@appletonideas.com>

Stainless steel tags shall be permanently attached designating the API equipment number and service.

API Equipment No. 009.26-011.22 and 009.26-011.23

Service: Pulp Press Bridge Crane Hoist

Line	Rev	Description	Ordered	UOM	Unit Price	PU UM	Extended Price	Request Date	Order No	Ty
1.000	0	1.5 Ton Chain Hoist	2.0000	EA	1,229.5000	EA	2,459.00	10/31/12		
		Harrington CB015 1.5 Ton Chain Hoist w/15' of lift								
2.000	0	2 Ton Push Trolley	2.0000	EA	266.0000	EA	532.00	10/31/12		
		Harrington PT020 2 Ton Push Trolley								
Total Order							2,991.00			
Sales Tax							Total Order			
Term	Net 30 Days	Tax Rate	*NA*		.00		2,991.00			

HARRINGTON

HOISTS AND CRANES

Harrington Hoists, Inc.
401 West End Avenue, Manheim, PA 17545 USA
Phone: 717-665-2000 • Fax: 717-665-2861

Sales Order 232937

Customer Order	Change Order	Date of Order	Page
PO00640830	1	09-13-12	1

Bill To: 1568
KONE CRANE PRO SERVICES
109 THIRD STREET
SUITE C***
LEETSDALE, PA 15056
United States of America

Ship To: 1568
APPLETON PAPER
DAN HERSHBERGER
100 PAPERMILL ROAD
ROARING SPRING, PA 16673
United States of America

Sales Rep: 15 Justin Rineer

Ship Via: BEST WAY

Freight Terms: Freight Allowed

Ln	Part	Delivery	Sell	Order	Remain	Price	Unit	Extended
No	Number	Date	UM	Qty	Qty	UM	Price	Price
2	DSA-3461 01 DRIVE SHAFT ASSEMBLY							
	GROUP A							
		10-05-12		1	1			
3	BBAO-3462 01 BRIDGE BEAM ASSEMBLY							
	S15 X 42.9# W/ C8 X 11.5# CAP							
	INCLUDES BAK							
	GROUP A							
		10-05-12		1	1			
4	CF-33650 01 CF HAND CHAIN HOIST							
	CF030							
	10.0 Ft. Lift							
	Standard Hand Chain Drop							
	GROUP A							
		10-05-12		1	1			
5	GT-2693 01 GT GEARED TROLLEY							
	GTF2030							
	3 Ton Capacity							
	8.0ft. Hand Chain Drop							
	5.5" Flange, 3.23-6.02 Adjustable Range.							
	OPTIONS:							
	GROUP A							

*Estimated wt. of
Bridge Crane w/o hoists
1700#*

HARRINGTON

HOISTS AND CRANES

Harrington Hoists, Inc.
401 West End Avenue, Manheim, PA 17545 USA
Phone: 717-665-2000 • Fax: 717-665-2861

Sales Order 232937

Customer Order	Change Order	Date of Order	Page
PO00640830	1	09-13-12	2

Bill To: 1568
KONE CRANE PRO SERVICES
109 THIRD STREET
SUITE C***
LEETSDALE, PA 15056
United States of America

Sales Rep: 15 Justin Rineer

Ship To: 1568
APPLETON PAPER
DAN HERSHBERGER
100 PAPERMILL ROAD
ROARING SPRING, PA 16673
United States of America

Ship Via: BEST WAY

Freight Terms: Freight Allowed

Ln	Part	Delivery	Sell	Order	Remain	Price	Unit	Extended
No	Number	Date	UM	Qty	Qty	UM	Price	Price
		10-05-12		1	1			
6	ERTUP 01 ER TOUCH-UP SPRAY PAINT YELLOW COLOR							
	GROUP A							
		10-05-12		1	1			
	TOPET-2430 01 TOP RUNNING END TRUCKS TG-3-0335 Geared EndTruck, 8 Ft. Hand Chain Drop 3 Ton Capacity 30 # Rail size Span 23 Ft Inches							
	GROUP A							
		10-05-12		1	1			
Payment terms 1/2% 10 days, net 30								
Change Order Reason: RECEIVED APPROVALS AND NEW SPAN CH 9-13-12								
EMAIL ORDER: RICHARD NIXON RECEIVED APPROVALS 9-12-12								

HARRINGTON

HOISTS AND CRANES

Harrington Hoists, Inc.
401 West End Avenue, Manheim, PA 17545 USA
Phone: 717-665-2000 • Fax: 717-665-2861

Sales Order 232937

Customer Order	Change Order	Date of Order	Page
PO00640830	1	09-13-12	3

Bill To: 1568
KONE CRANE PRO SERVICES
109 THIRD STREET
SUITE C***
LEETSDALE, PA 15056
United States of America

Sales Rep: 15 Justin Rineer

Ship To: 1568
APPLETON PAPER
DAN HERSHBERGER
100 PAPERMILL ROAD
ROARING SPRING, PA 16673
United States of America

Ship Via: BEST WAY

Freight Terms: Freight Allowed

Ln Part No Number	Delivery Date	Sell UM	Order Qty	Remain Qty	Price UM	Unit Price	Extended Price
9/04/12 EMAIL DRAWINGS TO RICHARD.NIXON@KONECRANES.COM Customer PO Reviewed/Approved by Katie Bennett							



A = 62"	B = 54"	W1= 31.65"
C = 29.5"	D = 43"	W2= 18.65"
E = 4.1"	F = 5.501"	
Lift = 10'	U = 8.4"	T2= 0.5"
L = 10'	Y = 7.1"	H= 1.1"
X = 4.6"	V = 15"	* O =
J = 10"		* P =

SPAN: 22' 23"

MODEL END TRUCK:	TG-3-0335
MODEL TROLLEY/HOIST:	GTF2030/CF030
CAPACITY:	3 TON
LIFTING SPEED:	
TROLLEY SPEED:	
RUNWAY RAIL SIZE:	30#
RUNWAY BEAM SIZE:	
BRIDGE BEAM SIZE:	S15X42.9 C8X11.5

QTY.			H.P.	AMPERAGE
		TROLLEY MOTOR:		
		HOIST MOTOR:		
		VOLTAGE:		
MER	CUSTOMER:	KONE CRANE PRO SERVICES		
	ORDER NO.:	232937		
	DATE:	8/15/12		

- BY CUSTOMER

2	CHANGED L TO LIFT; ADDED PENDANT L DIMENSION.	KPN	3/25/10	BRD	3/30/10
1	ADDED W1, W2, T1, T2 V.	KPN	12/08/03	BRD	1/27/04
NO.	REVISION DESCRIPTION	DRAWN BY	DATE	CHECKED BY	DATE

APPROVED AS NOTED

Approved For Fabrication

By:

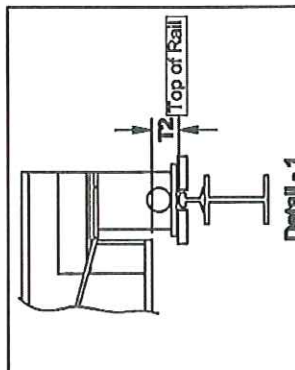
Co:

Date: _____

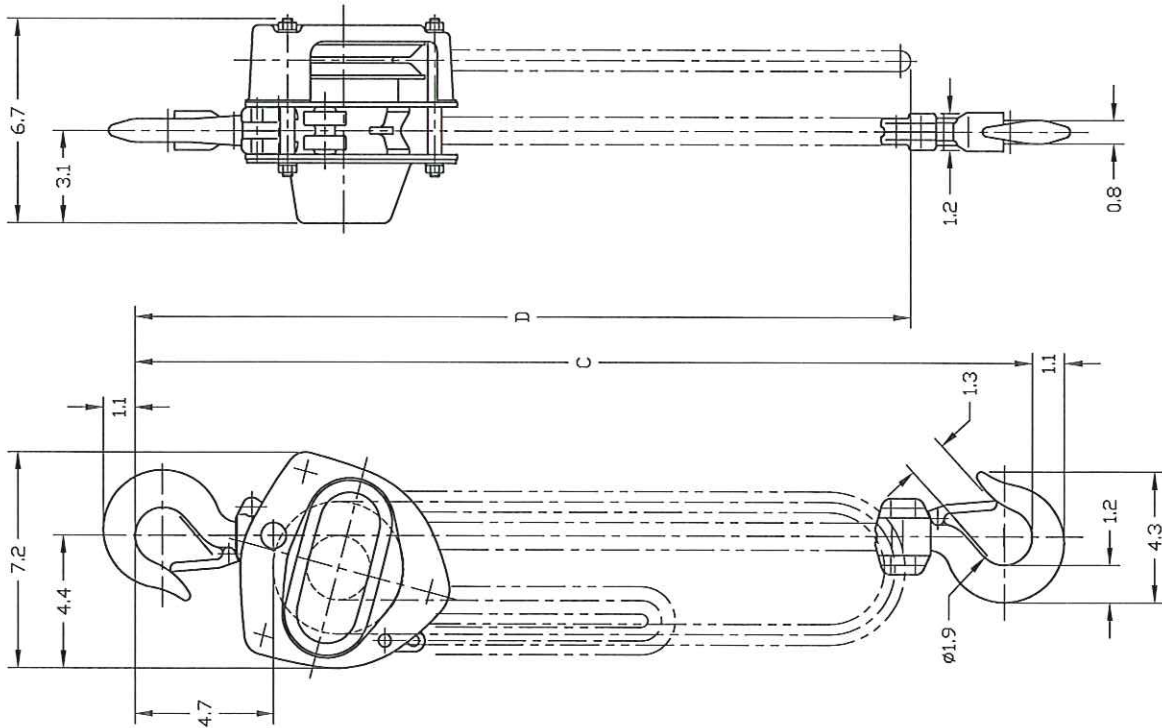
HARRINGTON
HOISTS AND CRANES

**SERIES 3 TOP RUNNING GEARED
CRANE APPROVAL DRAWING**

FRACTIONAL: +/-	DRAWN BY: TAF	SCALE: FIT	DRAWING NO: <i>TGI</i> <i>2</i>	REV. NO.
ANGULAR: +/-	CHKD BY: BRD	DATE: 7/16/98		



Detail - 1



SPECIFICATIONS		
PRODUCT CODE: CB015		
PARAMETER	STANDARD	AS-CONFIGURED
CAPACITY (US TON)	1 1/2	STD.
LIFT (FT.)	8	STD.
MINIMUM HEADROOM, C (IN.)	13.8	STD.
HOIST HAND CHAIN DROP LENGTH D (FT.)	8	STD.
NET WEIGHT (LBS.)	32	STD.
LOAD CHAIN SIZE (mm) X FALLS	7.1 X 1	STD.
PULL TO LIFT LOAD (LBS.)	70	STD.
OVERHAUL RATIO	57	STD.

CERTIFIED

BY: _____

DATE: _____

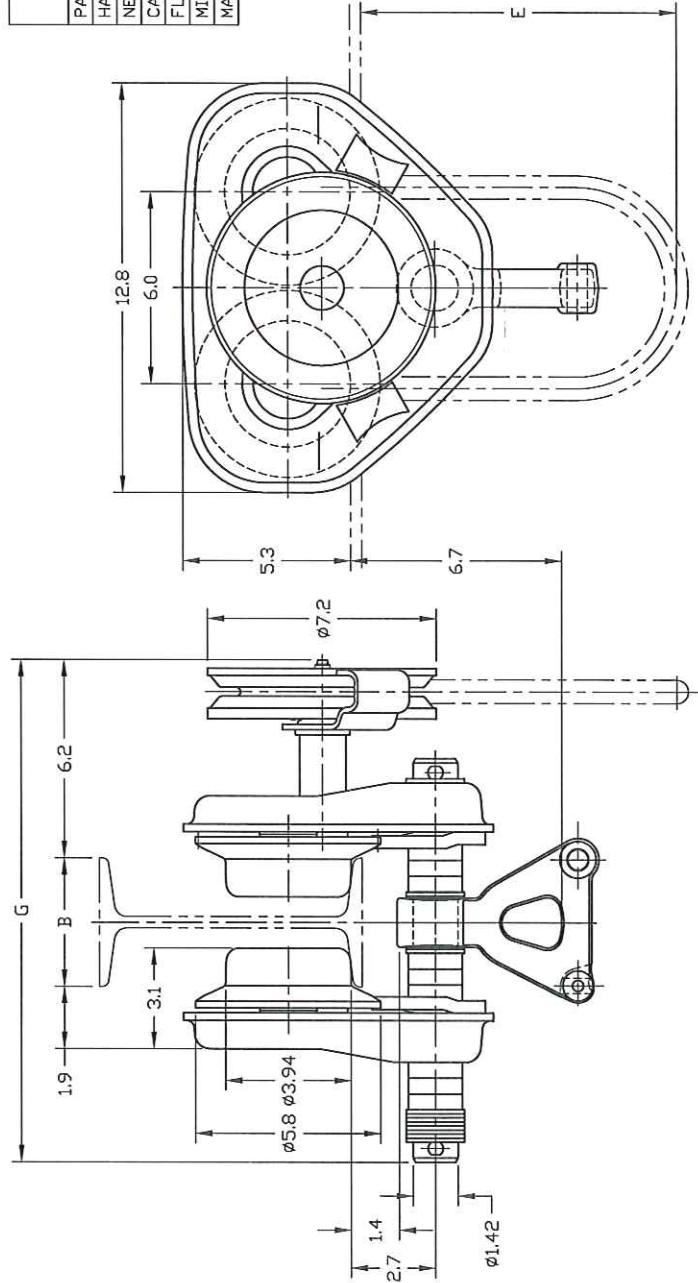
NOTES:

- 1.) CAD COMPUTER FILE - SCALE 1:1
HARD COPY - SCALED TO FIT PAPER SIZE.
- 2.) DRAWING SUBJECT TO CHANGE WITHOUT NOTIFICATION.

NO.	REVISION DESCRIPTION	DRAWN BY	DATE	CHECKED BY	DATE
	TOLERANCES (EXCEPT AS NOTED)				
	DECIMAL: X.XX = .01 +/- X.XX = .05				
	FRACTIONAL: +/- 1/32"				
	ANGULAR: +/- 1°				
	SCALE: SEE NOTE 1				
	DRAWN BY: MJS				
	CHKD BY: KPN				
	DRAWING NO: 56017				
	DATE: 6/03/02				
	REV. NO: 0				

HARRINGTON
HOISTS AND CRANES

CB015 HAND CHAIN HOIST



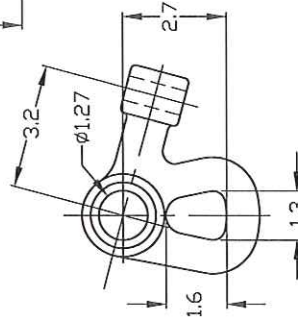
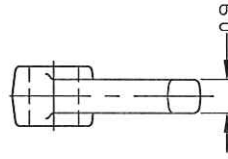
SPECIFICATIONS			
PRODUCT CODE: GTF2030			
PARAMETER	STANDARD	AS-CONFIGURED	
HAND CHAIN DROP, E (IN.)	96		STD.
NET WEIGHT (LBS.)	55		STD.
CAPACITY (US TON)	3		STD.
FLANGE WIDTH, B (IN.)	3.23 TO 6.02		STD.
MIN. ALLOWABLE RADIUS FOR CURVE (IN.)	25.6		STD.
MAXIMUM TROLLEY WIDTH, G (IN.)	15.7		STD.

CERTIFIED

BY: _____
DATE: _____

- NOTES:
- 1.) CAD COMPUTER FILE - SCALE 1:1
HARD COPY - SCALED TO FIT PAPER SIZE.
 - 2.) DRAWING SUBJECT TO CHANGE WITHOUT NOTICE.

NO.	REVISION DESCRIPTION	DRAWN BY	DATE	CHECKED BY	DATE
	TOLERANCES (EXCEPT AS NOTED)				
	DECIMAL: XXX = .005 +/- XX = .015				
	FRACTIONAL: +/- 1/32"				
	ANGULAR: +/- 1°				
	DRAWN BY: KPN	SCALE: SEE NOTE 1	DRAWING NO: 55712	REV. NO: 0	
	CHKD BY: BRD	DATE: 5/17/02			



NOTES:

1.) CAD COMPUTER FILE - SCALE 1:1
HARD COPY - SCALED TO FIT PAPER SIZE.

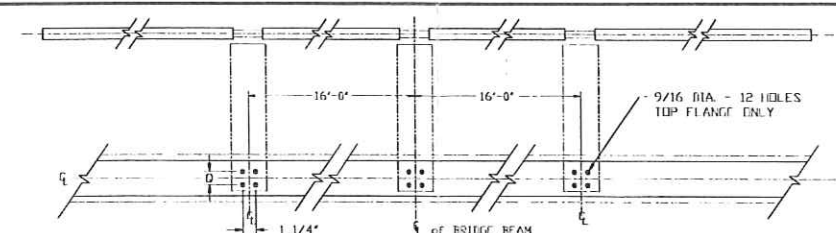
2.) DRAWING SUBJECT TO CHANGE WITHOUT NOTICE.

BEAM NOTCH DETAIL

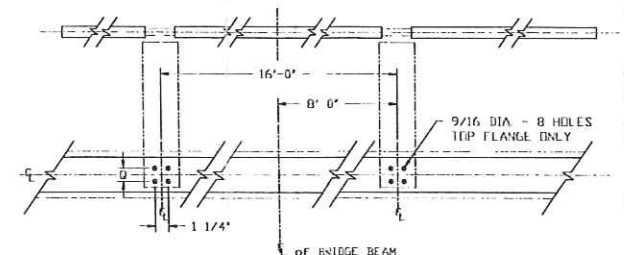
BEAM NOTCH WELDMENT

F = BRIDGE BEAM FLANGE WIDTH	5 1/2"
T = RUNWAY RAIL SIZE	30#
V = BRIDGE BEAM DEPTH	15"

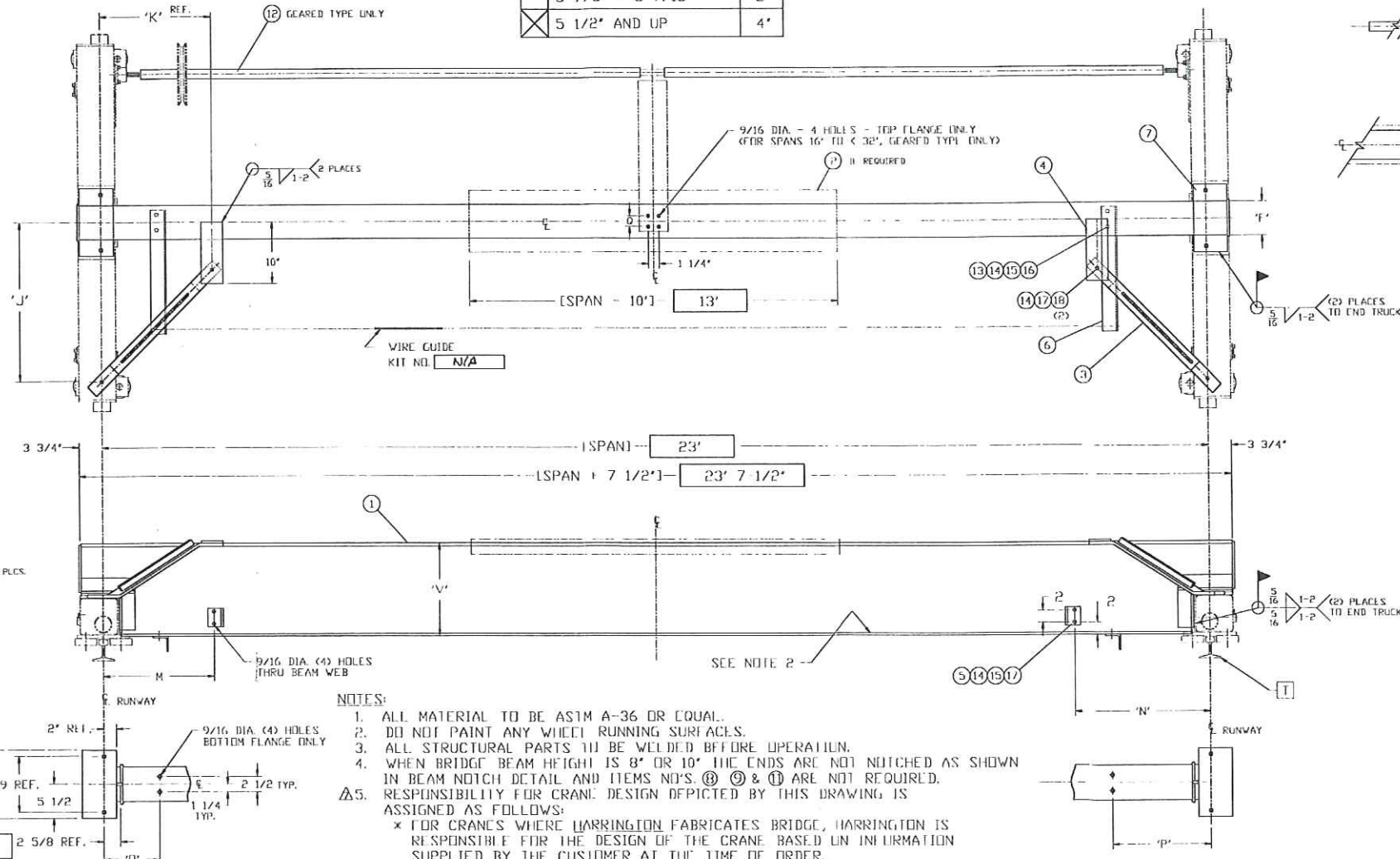
	BRIDGE BEAM WIDTH 'F'	'Q'
	3 7/8' - 5 7/16'	2'
X	5 1/2' AND UP	4'



FOR SPANS 48' TO 60'
GEARED TYPE ONLY



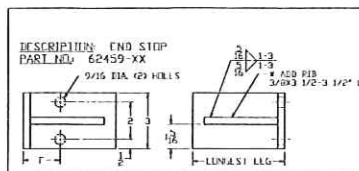
FOR SPANS 32' TO 40'
GEARED TYPE ONLY



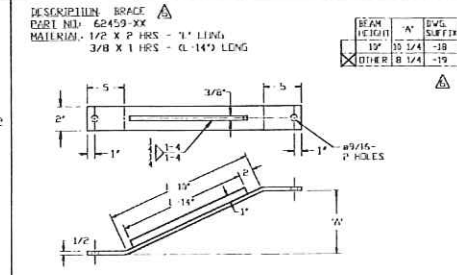
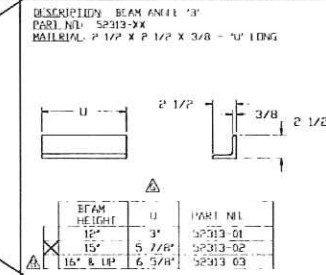
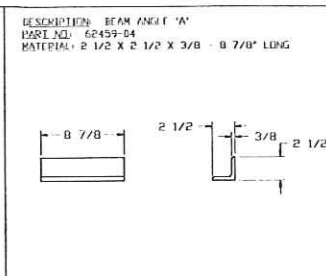
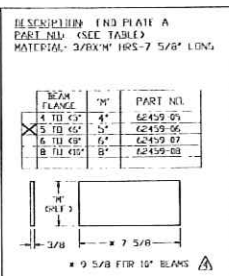
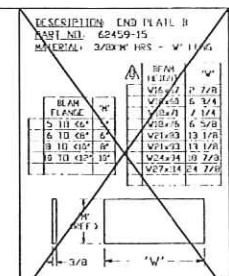
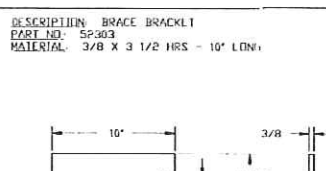
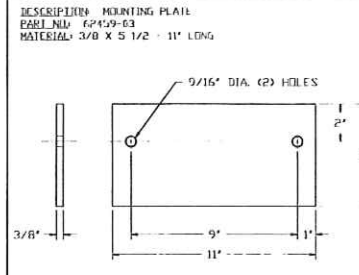
- NOTES:
1. ALL MATERIAL TO BE ASTM A-36 OR EQUAL.
 2. DO NOT PAINT ANY WHEEL RUNNING SURFACES.
 3. ALL STRUCTURAL PARTS TO BE WELDED BEFORE OPERATION.
 4. WHEN BRIDGE BEAM HEIGHT IS 8' OR 10' THE ENDS ARE NOT NOTCHED AS SHOWN IN BEAM NOTCH DETAIL AND ITEMS NO'S. ⑧ ⑨ & ⑩ ARE NOT REQUIRED.
- Δ 5. RESPONSIBILITY FOR CRANE DESIGN DEPICTED BY THIS DRAWING IS ASSIGNED AS FOLLOWS:
- × FOR CRANES WHERE HARRINGTON FABRICATES BRIDGE, HARRINGTON IS RESPONSIBLE FOR THE DESIGN OF THE CRANE BASED ON INFORMATION SUPPLIED BY THE CUSTOMER AT THE TIME OF ORDER.
 - × FOR CRANES WHERE OTHERS FABRICATE THE BRIDGE, THE CUSTOMER OR FABRICATOR IS RESPONSIBLE FOR THE DESIGN OF THE CRANE.

BRIDGE BEAM		DIMENSIONS			
HEIGHT	M	N	O	P	
<16"	23 1/2	10 1/2	16 1/2	9	
18"	23 1/2	13 1/2	16 1/2	11 3/8	
W21X83	41 1/16	18 1/2	17	18 1/2	
W21X93	46	18 1/2	17	18 1/2	
24"	49	23 1/2	22	22	
27"	56 1/4	28 3/4	27 1/4	27 1/4	

18	90125-15	PLAIN WASHER	2	M12
17	90931-47	BOLT	6	M12 X 50 X 30
16	90435-14	TAPER WASHER	8	M12 (9° TAPER)
15	90127-13	SPRING WASHER	8	M12
14	90934-33	NUT	12	M12
13	90933-76	BOLT	4	M12 X 60 X 6.0
12	6246X-XX	DRIVE SHAFT (S)		SEE DETAIL FOR P/N SUFFIX
11	62459-15	END PLATE 'B'	2	
10	62459-XX	END PLATE 'A'	2	SEE DETAIL FOR P/N
9	52313-XX	BEAM ANGLE 'B'	4	SEE DETAIL FOR P/N SUFFIX
8	62459-03	BEAM ANGLE 'A'	4	
7	62459-03	MOUNTING PLATE	2	
6	62450-05	GUIDE WIRE IMAGNET	2	
5	52305-XX	END STOP	4	SEE DETAIL FOR P/N SUFFIX
4	52303	BRACE BRACKET	2	
3	62464-01	BRACE	2	SEE DETAIL FOR P/N SUFFIX
2	62464-02	CHANNEL CAP	1	
1	62464-01	BRIDGE BEAM	1	
FILE NO.	DWG. NO.	DESCRIPTION	QTY.	NOTE



	EWL NO.	BRIDGE BEAM FLANGE WIDTH	F	MATERIAL
	62459-05	UP TO 4"	1 1/2	23 X 3 X 3/8
	62459-10	4 1/16 - 5"	1 3/4	23 1/2 X 3 1/2 X 3/8
	62459-11	5 1/16 - 6"	2	24 X 4 X 1/2
	62459-12	6 1/16 - 8"	2	25 X 5 X 1/2
	62459-13	8 1/16 - 12"	2	26 X 4 X 1/2
	62459-14	10 1/16 - 12"	2	27 X 4 X 1/2
	62459-15	12 1/16 - 14"	2	27 X 4 X 1/2



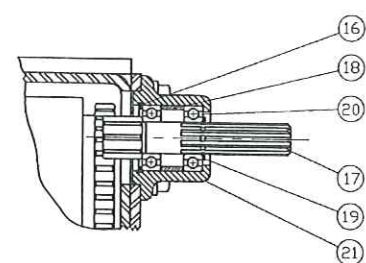
The figure consists of five separate diagrams, each representing a different span configuration for a 7/16 inch drill pipe. Each diagram includes a cross-sectional view of the pipe with a hole, dimensions for the span and hole diameter, and material specifications.

- Diagram 1 (Top):**
 - Span: $10' < 16'$
 - Hole Diameter: 7/16 DIA DRILL THRU 2 HOLES
 - Material: 1 1/4 SCH. 40 PIPE
 - Quantity: 1 ea.
- Diagram 2:**
 - Span: $16' < 32'$
 - Hole Diameter: 7/16 DIA DRILL THRU 2 HOLES
 - Material: 1 1/4 SCH. 40 PIPE
 - Quantity: 2 ea.
 - Note: MODIFIED SPAN FORMULA
- Diagram 3:**
 - Span: $32' < 40'$
 - Hole Diameter: 7/16 DIA DRILL THRU 2 HOLES
 - Material: 1 1/4 SCH. 40 PIPE
 - Quantity: 1 ea.
 - Note: CENTER SHAFT
- Diagram 4:**
 - Span: $40' < 60'$
 - Hole Diameter: 7/16 DIA DRILL THRU 2 HOLES
 - Material: 1 1/4 SCH. 40 PIPE
 - Quantity: 2 ea.
 - Note: END SHAFT
- Diagram 5 (Bottom):**
 - Span: $60' < 100'$
 - Hole Diameter: 7/16 DIA DRILL THRU 2 HOLES
 - Material: 1 1/4 SCH. 40 PIPE
 - Quantity: 2 ea.
 - Note: CENTER SHAFT

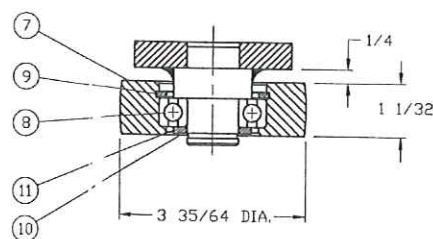
	END TRUCK NO.	SPAN LIMIT	J	K	L	10' BEAM L
X	TG/IP-3-0335	> 10' TO 35'	26 1/2	18	30	30 7/8
	TG 3-0350 	> 35' TO 50'	45	36 9/16	55 1/8	55 1/2
	IP 3-0245 	> 35' TO 45'	45	36 9/16	55 1/8	55 1/2

9	AXED EWB-15		BAL	629-0		
8	SEE EOW3			1554	WTD	3554
7	AXED TW2 BLOCK PER EOW3 & EOW10		K7H	654-1	BAO	654-2
6	SEE E C N 232		K7H	6100		
5	MODIFIED BAIN FORMULA		--	--	--	--
4	AXED 3 55 FOR 12" BEAM		K7H	61596		
3	REDRAWN, CHANGED RT MOUL & 1/4 T3		TAF	3359		
2	REDRAWN PER E C N 131		K7H	61156		
1	36 3/16 WAS 36 3/8 WAS 31 5/16 WAS 56 1/2 FOR 12" BEAM		BSD	62259		
NO	REVISION DESCRIPTION		DRAWN BY	DATE	CHECKED BY	DATE
TOLERANCES (EXCEPT AS NOTED)		BRIDGE BONE ASSEMBLY FOR A 1G-3-0335 / 0350 & TP-3-0245 / 0335				
DECIMAL .XXX = .005 .XX = .015 FRACTIONAL 1/32" = .0157" ANGULAR 1" = 1"		DRAWN BY TAF C'D BY BRD		SCALE FIT DATE 8/14/93		DRAWING NO 62464 REV 9
						

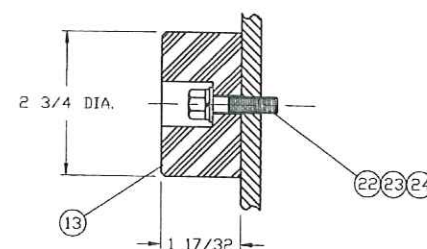
D009.26-1736.01



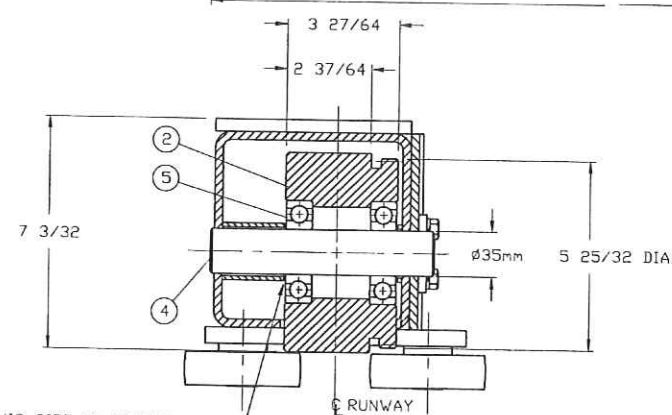
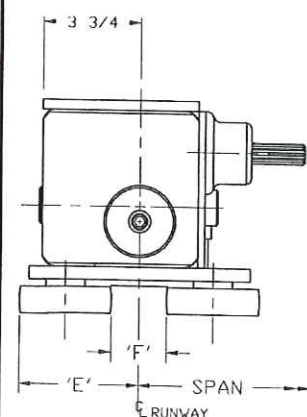
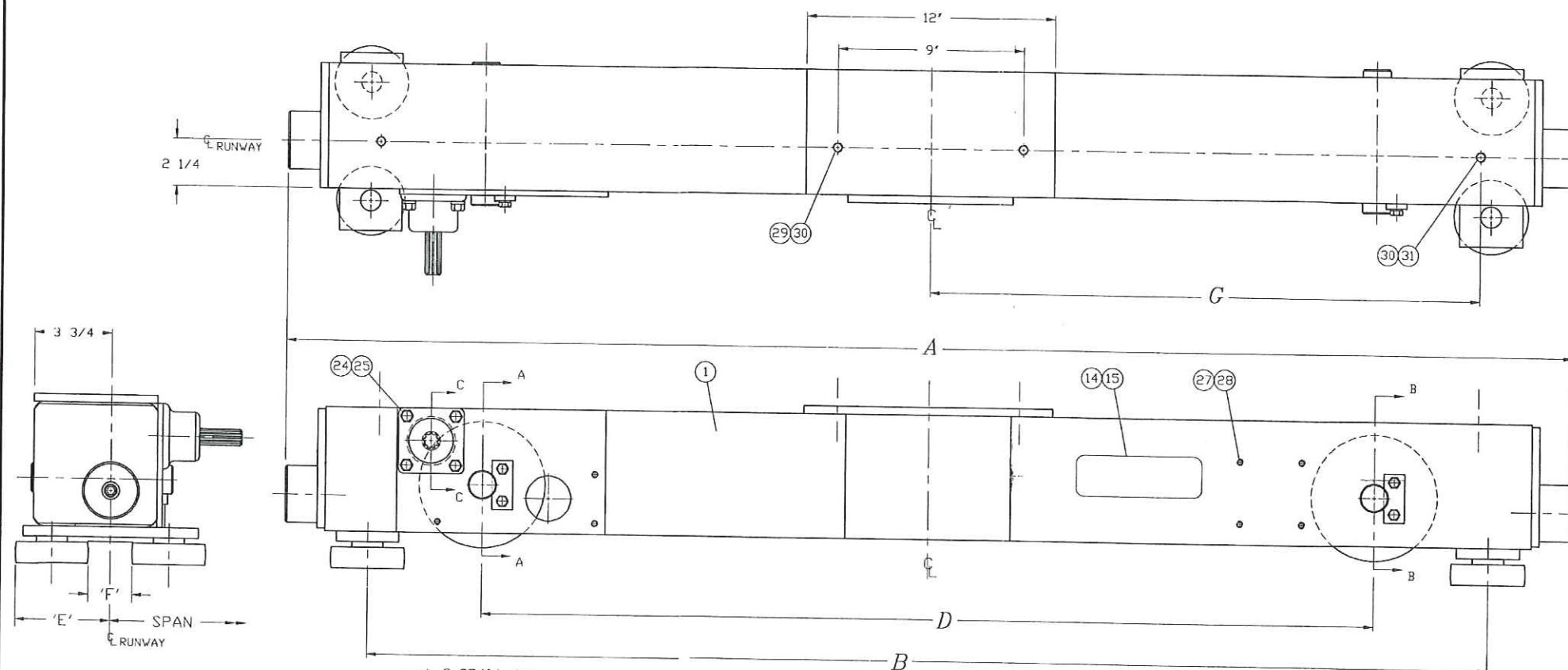
SECTION C-C



GUIDE ROLLER SECTION

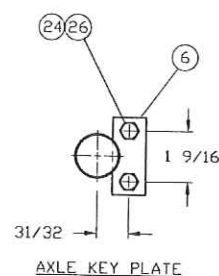


BUMPER SECTION

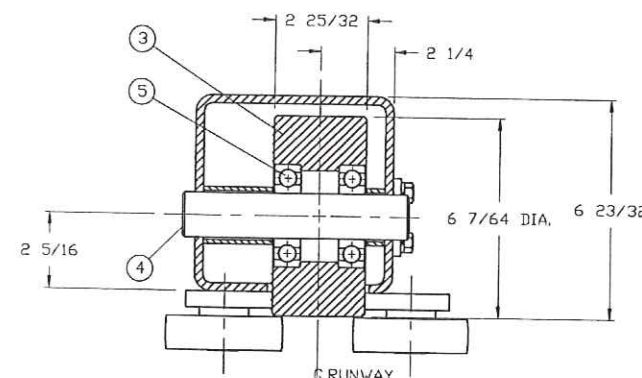


SHIM THIS SIDE IF NECESSARY

SECTION A-A



AXLE KEY PLATE



SECTION B-B

RUNWAY RAIL ASCE	'F'	'E'
25#	1 7/8	4 1/2
30# & 35#	2 3/32	4 9/16
40# & 45#	2 11/32	4 11/16
50#	2 7/16	4 25/32

31 BOLT, HEX HD.	2	M12x30x30
30 SPRING WASHER	4	M12
29 BOLT, HEX HD.	2	M12x45x45
28 BOLT, HEX HD.	4	M10x25x25
27 SPRING WASHER	4	M10
26 BOLT, HEX HD.	4	M8x20x20
25 BOLT, HEX HD.	4	M8x25x25
24 SPRING WASHER	10	M8
23 PLAIN WASHER	2	M10
22 BOLT, HEX HD.	2	M8x30x25
21 HOUSING	1	
20 BALL BEARING	2	
19 SNAP RING	1	
18 SPACER	1	
17 PINION GEAR	1	
16 SNAP RING	1	
15 CAPACITY PLATE	1	LEFT FRAME
14 NAME PLATE	1	RIGHT FRAME
13 BUMPER	2	
12		
11 GUIDE ROLLER SPACER	4	
10 SNAP RING	4	
9 SNAP RING	4	
8 BALL BEARING	4	
7 ROLLER COLLAR	4	
6 KEY PLATE	2	
5 BALL BEARING	4	
4 TRACK WHEEL AXLE	2	
3 TRACK WHEEL 'B'	1	
2 TRACK WHEEL 'A'	1	
1 FRAME ASSEMBLY	1	
F/N	DESCRIPTION	QTY

END TRUCK NO.	A	B	D	G
TG-3-0335	62	54	43	26 1/2
TG-3-0350	99	91	80	45

C009.26-1736.02

4	CHANGED FIGURE NUMBERS ON AXLE KEY PLATE DETAIL	MJM	8/18/11	DOS	8/19/11
3	NEW TITLE BLOCK PER ECH003	BRD	10/10/02	CAW	10/10/02
2	WAS TG-3-0300, ECH213	TAF	4/14/99		
1	WAS MB	KPN	3/23/99		
NO	REVISION DESCRIPTION	DRAWN BY	DATE	CHECKED BY	DATE
TOLERANCES (EXCEPT AS NOTED) DECIMAL +/- FRACTIONAL +/- 1/16" ANGULAR +/- 1°					
TG-3-0335 TO 0350 END TRUCK ASSEMBLY HARRINGTON HOISTS AND CRANES					
DRAWN BY	RWW	SCALE	FIT	DRAWING NO.	REV NO.
CHECKED BY	BRD	DATE	6/26/98	62410	4