

MORRIS MATERIAL HANDLING / NORTHEAST REGION

Customer: SHOP VAC

Ship Date: 10/15/00

Description: TRDB

15" Dia. , D.F.

Ref / BOM or DWG.

Arrange Per:

Span: 35'-0"

Capacity: 20 TON

Current: 460/3/60

Dwg. #: H-8267

Consists of: (1) CRANE

Structurals

Sht. 2

Drives & Mounts

Sht. 3

Electricals

Sht. 4

Miscellaneous

Sht. 5

End Trucks

Sht. 6

Hoist by: MORRIS

Coming In?: YES

P.O. #: 15427

Mfr.: P&H

Model: 20-430L6-29TR13T2

Cat. No.:

Serial No.: x

Lift: 29'-6"

Vendor Order No.: x

Paint Specifications

233444

Installation Dwgs.

General Arrangement: H-8267

Wiring Diagram: 650040-15

Interconnection Diagram: SK-IC

Hoist Dwg.: 5229-DB03

Hoist Wiring Diagram: LATER

Title: Master Sheet

Job No.: 00S-2113-21

Sht. 1

MORRIS MATERIAL HANDLING / NORTHEAST REGION

Customer: **SHOP VAC**

Ship Date: **10/15/00**

Quantity		Description	Item No.	Status	Cont. No.	Cut Length	Ref. Or Dwg. No.	P.O. No.
Total	Unit							
1		LOT OF BRIDGE BEAMS OF:						
4		PCS. W 24 x 62# x		P		35'-11"	SK-2	
4		PCS. FL. BAR 3" x 3/8" x				1'-2"		15426
4		PCS. FL. BAR 2" x 3/8" x				1'-2"		
8		PCS. L 4" x 3" x 3/8" x				1'-5"		
4		PCS. FL. BAR 7" x 1/4" x				9"		
1		LOT OF TROLLEY RAIL OF:					SK-2	
2		PCS. 40# ASCE w/HOLD DOWN CLIPS		P		30'-0"		PRE-BILL
2		PCS. 40# ASCE w/HOLD DOWN CLIPS		P		4'-4"		" "
2		40# SPLICE ASS'YS w/ HARDWARE		P				" "
X	X	END STOP ASSEMBLY					LATER	
8		FESTOON SUPPORT BRACKET					SK-4	
8		PCS. L 1 1/2" x 1 1/2" x 3/16"				1'-7 1/2"		
8		PCS. L 2" x 2" x 1/4" x				11 3/4"		
1		COLLECTOR BRACKET					SK-3	
1		PL 3/8"x3"	1			7"		
1		PL 1/8"x1 1/2"	2			0'-1 1/2"		
1		TS 4" x 2" x 3/16" x	3			14 3/4"		
1		L 2 1/2"x2 1/2"x1/4"	4			2'-0 1/2"		
1		1" SQUARE BAR	5			10 1/2"		
1		UNISTRUT CHANNEL	6			13"	273065	
2		SPRING NUT	7				273066	
2		1/2-13 BOLT	8			0'-1"	602229	
2		1/2" Lockwasher	9				602207	

Container: Drum = D-No. Box = B-No. Skid = S-No. Loose = L Assembled/Mounted = A

Title: **Structural**

Job No.: **00S-2113-21**

Sht. 2

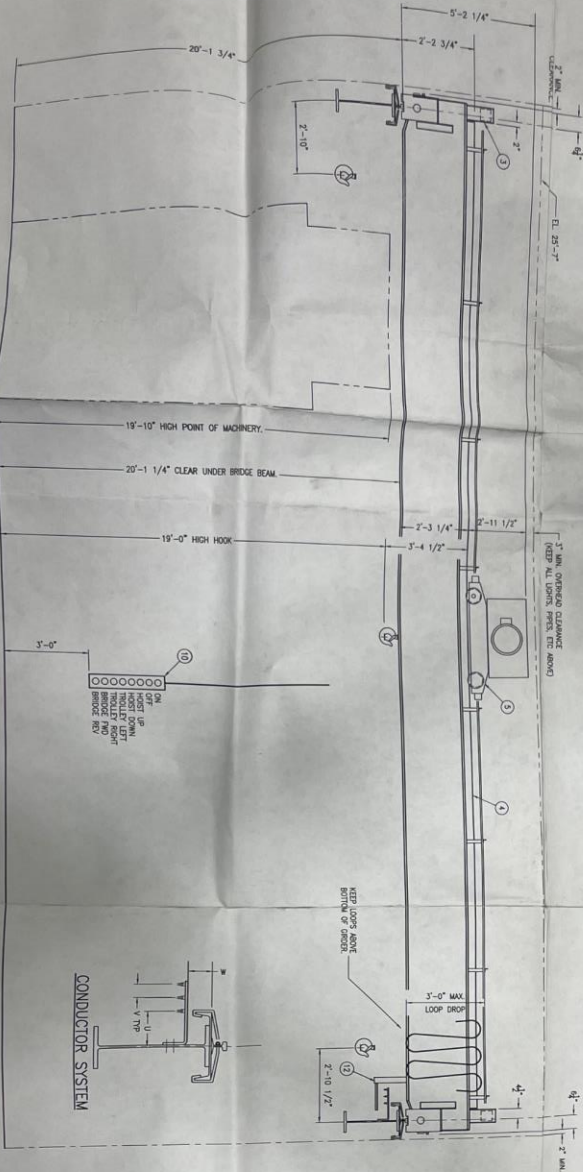
Customer: SHOP VAC

Quantity		Description	Item No.	Status	Cont. No.	Cut Length	Ref. Or Dwg. No.	P.O. No.
Total	Unit							
2		FLENDER DRIVE ASSEMBLY		P				20545
		Flender Drives						
		#Z38-A90SH4						
		1 1/2 HP, 460/3/60, FOOT MOUNTED						
		1 1/4" DIA. SHAFT x 60mm lg.						
		98 RPM OUTPUT, 17.33:1 RATIO						
		460V BRAKE, SET @ 70.8 in-lbs						
		ASS'Y POS. = B3						
		CONDUIT BOX @ 2D						
2		ROLLER CHAIN FLEX COUPLING:						
2		COUPLING HUBS 2" DIA. (6018)					141063	
2		COUPLING HUBS 1 1/4" DIA.(6018)					141060	
2		CHAINS 6018 w/CONN. LINK					141032	
2		DRIVE SUPPORT CHANNELS:					SK-6	
2		PCS. C 7 x 9.8# x		HST		1'-3 1/2"		
8		HEX HD. BOLTS 3/8" x 2" LG.					602225	
8		FL. WASHER 3/8"					602210	
16		HEX NUTS 3/8"					602200	

Title: DRIVES & MOUNTS

Job No.: 00S-2113-21

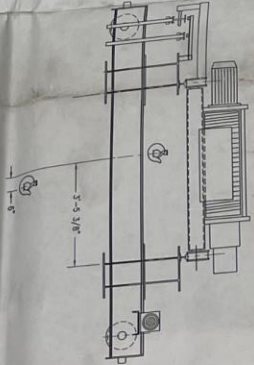
Sht. 3



ORIGINAL

(1) 20 TON CAPACITY CRANE
SERIAL # 005-2113-21

SECTION "A-A"



CAPACITY 20 TON SPAN 35'-0" BRIDGE WGT 13,500#
WHEEL LOAD 24,700# HOST/TROLLEY WGT 5,500#
POWER - 460 VOLTS 3 PH 60 HZ CMAA CLASS C
SPEED(FPM) BRIDGE 100 FPM (TWO STEP WTD)
TROLLEY 40 FPM (TWO STEP WTD)
HOST 13 1/4 FPM (TWO SPEED)

COMPONENTS

15. F. WHEEL, DRUM THROUS, WELDED STRUCTURES.
16. PROCE. ESEM - VAK-615 BOZD.
17. ROLLER AND STOPS
18. 4/4 ASCE. TROLEY RAIL - 4/ WELD DOWN CLIPS
19. TROLEY-HOST (SEE BELOW)
20. RUBBER BRUSH
21. M4M 12 ENGLANDER - 4/ DISCONNECT STATION
22. FIRMEDONE CABLE, CONTROL TO TROLEY WAGON
23. FIRMEDONE CABLE, CONTROL TO SUPERVISORY STATION
24. PNEUMATIC STATION
25. BRIDGE MOTOR ASY - (2) @ 1 1/2 HP
26. 94 RUP. #23-40544
27. DOUBLE SHOT COLLECTORS & BRACKET
28. FLEX COUPLING, ROLLER CHAIN TYPE
29. TROLEY HYDRAULIC SYSTEM

HOIST DATA

MFR. _____ PAH _____ CAPACITY 20 TON PO 15426
MODEL # 20-4506-23TRJ5 TOTAL LIFT 29'-6"
HOIST MTR 19 HP TROLLEY MTR 2 3/4 HP

RUNWAY DATA

BEAM	W27x84	W/CLP	C15x33.9	RAI 401
CONDUCTORS	ELECTROPLATE	COLLECTORS	ELECTROPLATE	
$\gamma = 13 \frac{1}{2}^\circ$	$\gamma = 3^\circ$	$\gamma = 6^\circ$	Δ	
PAINT FINISH - ONE COAT - GREY OXIDE PRIMER				
ONE COAT - HI VIZ SAFETY YELLOW ENAMEL				

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DATA

CAPACITY 20 TON SPAN 35'-0" BRIDGE WGT 13,300#
 WHEEL LOAD 24,700# HOIST/TROLLEY WGT 5,300#
 POWER - 460 VOLTS 3 PH 60 Hz CMAA CLASS C
 SPEED(FPM) BRIDGE 100 FPM (TWO STEP VFD)
 TROLLEY 40 FPM (TWO STEP VFD)
 HOIST 13 3/4 FPM (TWO SPEED)

COMPONENTS

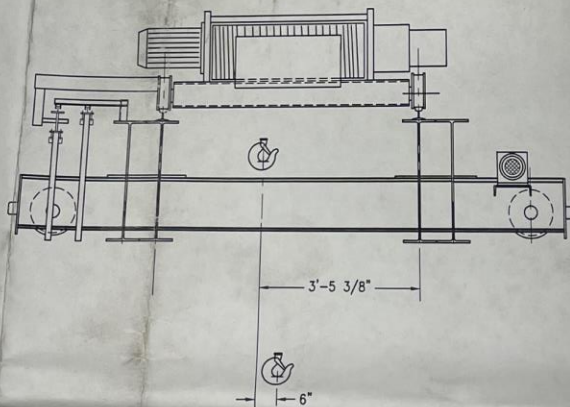
- ① 15" D.F. WHEEL END TRUCKS, WELDED STRUCTURALS.
- ② BRIDGE BEAM - W24x62# BOXED.
- ③ TROLLEY END STOPS
- ④ 40# ASCE TROLLEY RAIL w/ WELD DOWN CLIPS
- ⑤ TROLLEY-HOIST (SEE BELOW)
- ⑥ RUBBER BUMPERS
- ⑦ NEMA 12 ENCLOSURE w/ DISCONNECT SWITCH
- ⑧ FESTOONED CABLE SYSTEM TO TROLLEY HOIST
- ⑨ FESTOONED CABLE SYSTEM TO PUSHBUTTON STATION
- ⑩ PUSHBUTTON STATION
- ⑪ BRIDGE MOTOR ASS'Y - (2) @ 1 1/2 HP
98 RPM, #Z38-A90SH4
- ⑫ DOUBLE SHOE COLLECTORS & BRACKET
- ⑬ FLEX COUPLING, ROLLER CHAIN TYPE.
- ⑭ TROLLEY HYDRAULIC BUMPERS

HOIST DATA

MFR. P&H CAPACITY 20 TON PO 15426
 MODEL # 20-430L6-29TR131 TOTAL LIFT 29'-6"
 HOIST MTR 19 HP TROLLEY MTR 2 3/4 HP

RUNWAY DATA

BEAM W27x84# W/CAP C15x33.9# RAIL 40#
 CONDUCTORS ELECTROMOTIVE COLLECTORS ELECTROMOTIVE
 "U" 13 1/2" "V" 3" "W" 6"
 PAINT FINISH - ONE COAT - GREY OXIDE PRIMER.
 ONE COAT - HI VIZ SAFETY YELLOW ENAMEL.



SECTION "A-A"

(1) 20 TON CAPACITY CRANE
 SERIAL # 00S-2113-21

REV-1	ADDED TROLLEY HYD. BUMPERS & CHANGED COND'R BAR SPACING.	9/18/00 TEK
JOB NO. 00S-2113-21		DATE 08/11/00
20 TON CAP. TOP RUNNING DOUBLE BEAM CRANE DUAL DRIVE, CLEARANCE DRAWING for: SHOP VAC		APPROVALS TEK
SIZE D	REV. NO. 1	DRAWING NO. H-8267
SCALE 1/2"=12"	CAD# H-8267	SHEET 1 OF 1

P&H
MORRIS
 MATERIAL HANDLING
 NORTHEAST REGION

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DATA

CAPACITY 20 TON SPAN 35'-0" BRIDGE WGT 13,300#
WHEEL LOAD 24,700# HOIST/TROLLEY WGT 5300#
POWER - 460 VOLTS 3 PH 60 Hz CMAA CLASS C
SPEED(FPM) BRIDGE 100 FPM (TWO STEP VFD)
TROLLEY 40 FPM (TWO STEP VFD)
HOIST 13/4 FPM (TWO SPEED)

COMPONENTS

- ① 15"Ø D.F. WHEEL END TRUCKS, WELDED STRUCTURALS.
- ② BRIDGE BEAM - W24x62# BOXED.
- ③ TROLLEY END STOPS
- ④ 40# ASCE TROLLEY RAIL w/ WELD DOWN CLIPS
- ⑤ TROLLEY-HOIST (SEE BELOW)
- ⑥ RUBBER BUMPERS
- ⑦ NEMA 12 ENCLOSURE w/ DISCONNECT SWITCH
- ⑧ FESTOONED CABLE SYSTEM TO TROLLEY HOIST
- ⑨ FESTOONED CABLE SYSTEM TO PUSHBUTTON STATION
- ⑩ PUSHBUTTON STATION
- ⑪ BRIDGE MOTOR ASS'Y - (2) @ 1 1/2 HP
98 RPM, #Z38-A90SH4
- ⑫ DOUBLE SHOE COLLECTORS & BRACKET
- ⑬ FLEX COUPLING, ROLLER CHAIN TYPE.
- ⑭ TROLLEY HYDRAULIC BUMPERS

HOIST DATA

MFR. P&H CAPACITY 20 TON PO 15426
MODEL # 20-430L6-29TR13T TOTAL LIFT 29'-6"
HOIST MTR 19 HP TROLLEY MTR 2 3/4 HP

RUNWAY DATA

BEAM W27x84# W/CAP C15x33.9# RAIL 40#
CONDUCTORS ELECTROMOTIVE COLLECTORS ELECTROMOTIVE
① "U" 13 1/2" "V" 3" "W" 6" ①
PAINT FINISH - ONE COAT - GREY OXIDE PRIMER.
ONE COAT - HI VIZ SAFETY YELLOW ENAMEL.