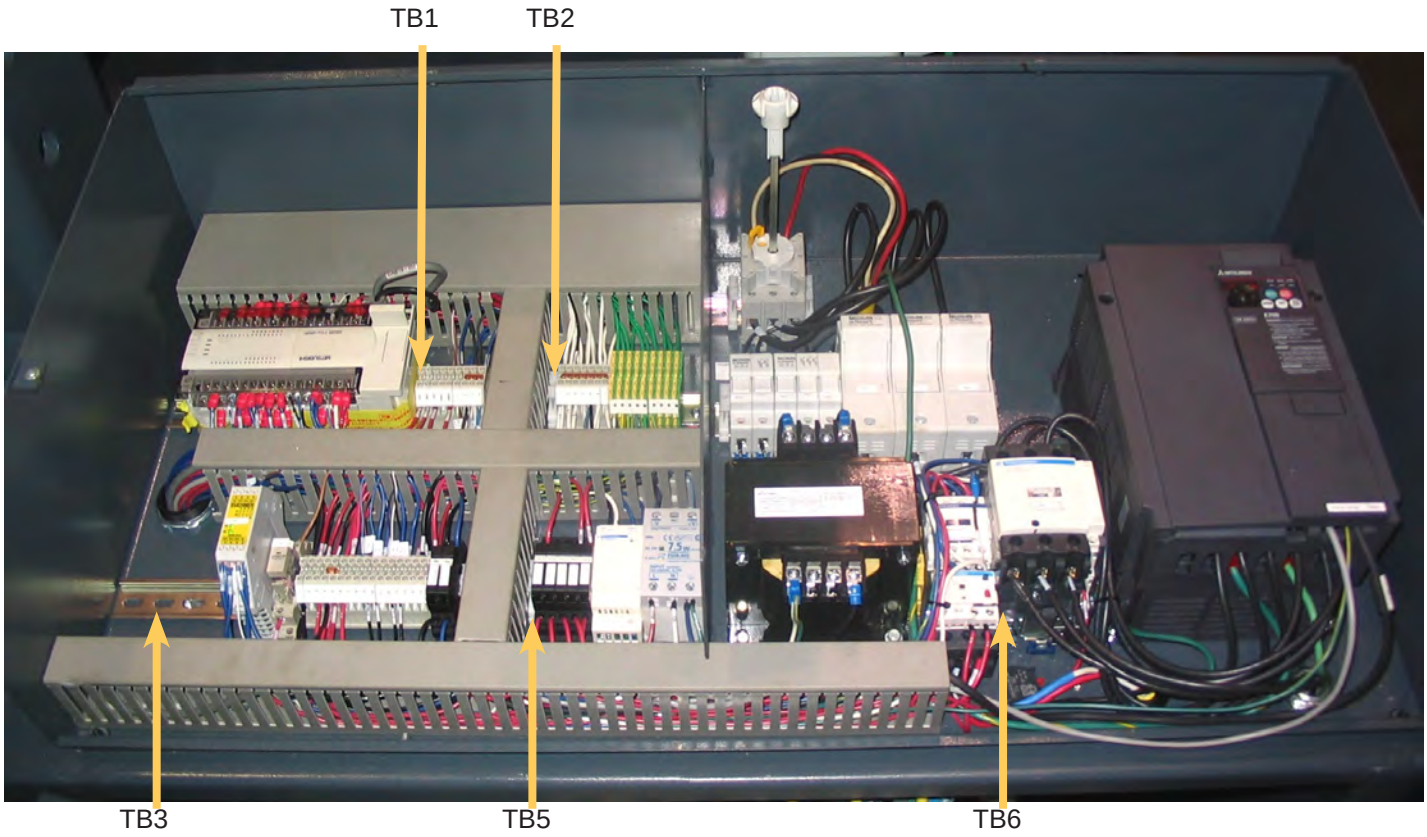
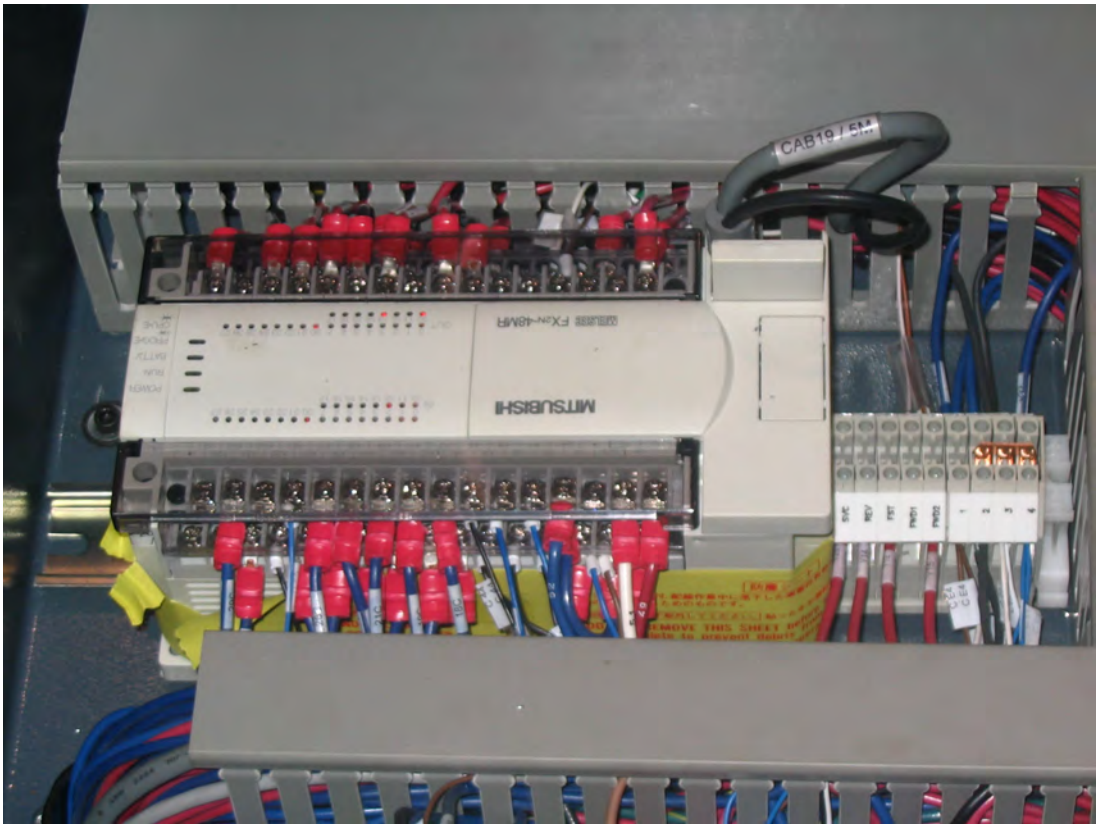
COMPONENT LOCATION

The electrical schematics show some components labeled as TB1 to TB7 and these components are physically mounted on din rails. The illustration below shows the location of the Din rails with the installed components and the designated TB number.



The following pages will show and explain in brief how to understand the correlation between the electrical schematic and the control panel with regards to TB1 to TB7.

TB1

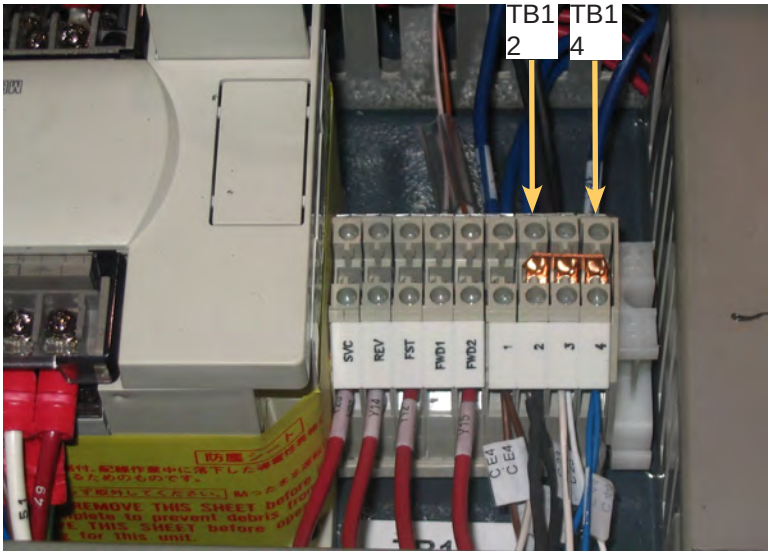


From page 1, it can be seen that TB1 has the PLC and terminals mounted to it. A close up view of TB1 can be seen in the picture below.

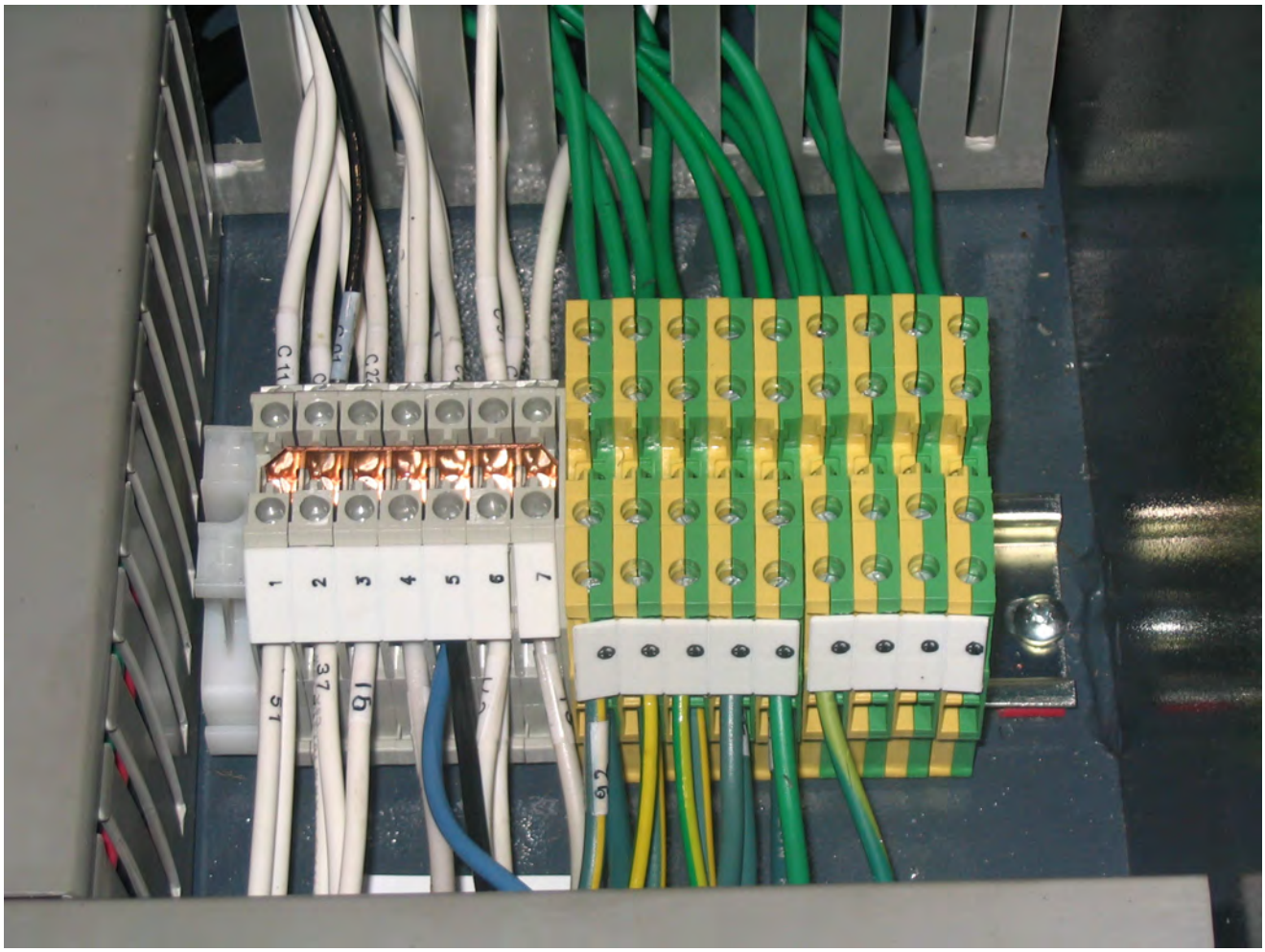
For example, if the electrical schematic shows a terminal, described as TB1
2

This indicates that the terminal is located on din rail TB1 and is terminal #2.

TB1
4 This would indicate that the terminal is mounted on TB1 and is terminal #4.



TB2



A close up view of TB2 is shown.

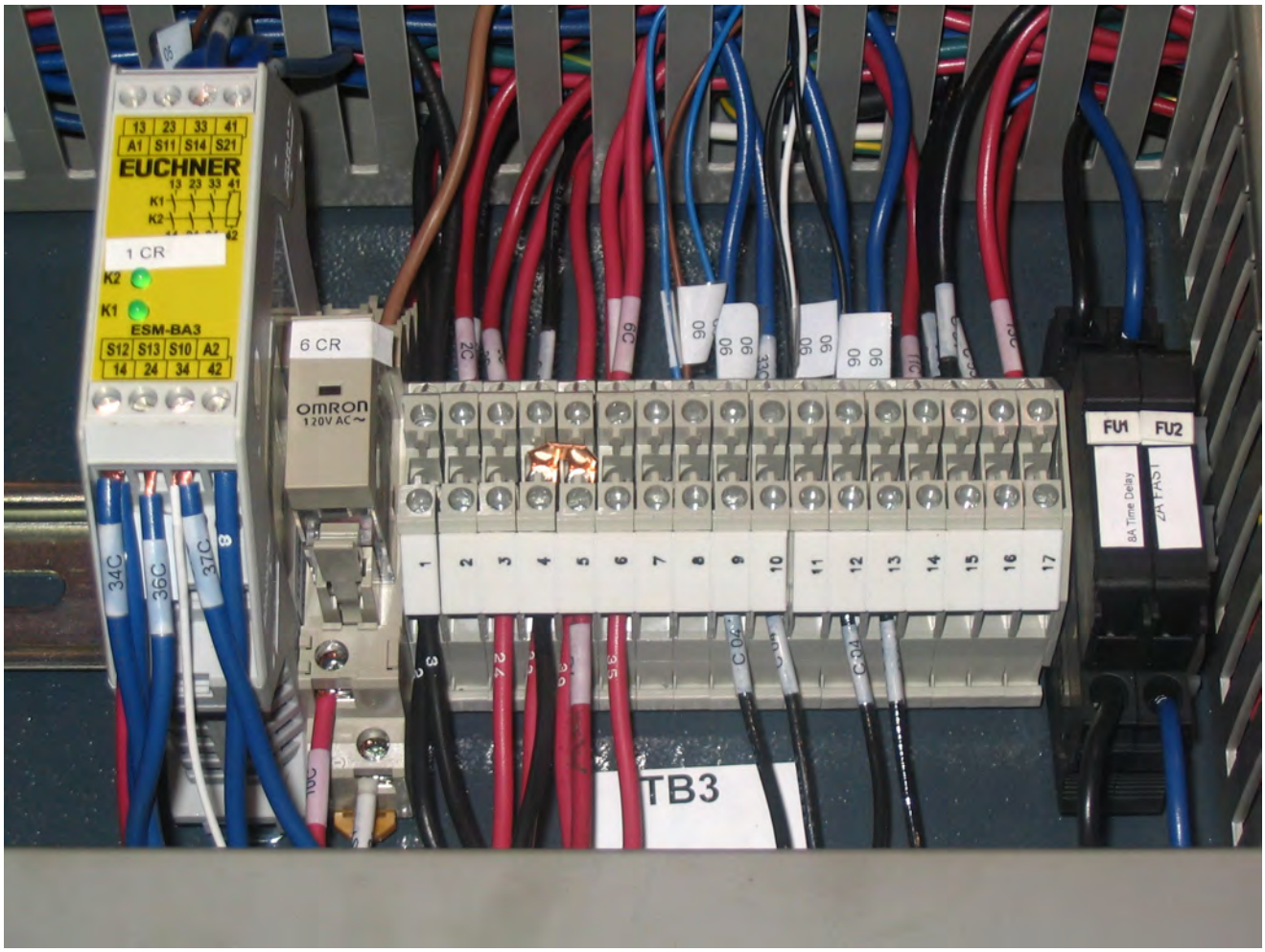
Page 1 shows the position of TB2 in the control panel.

For example, if the electrical schematic shows a terminal, described as TB2
3

This indicates that the terminal is located on din rail TB2 and is terminal #3.

TB2
6 This would indicate that the terminal is mounted on TB2 and is terminal #6.

TB3



A close up view of TB3 is shown.

Page 1 shows the position of TB3 in the control panel.

For example, if the electrical schematic shows a terminal, described as TB3
7

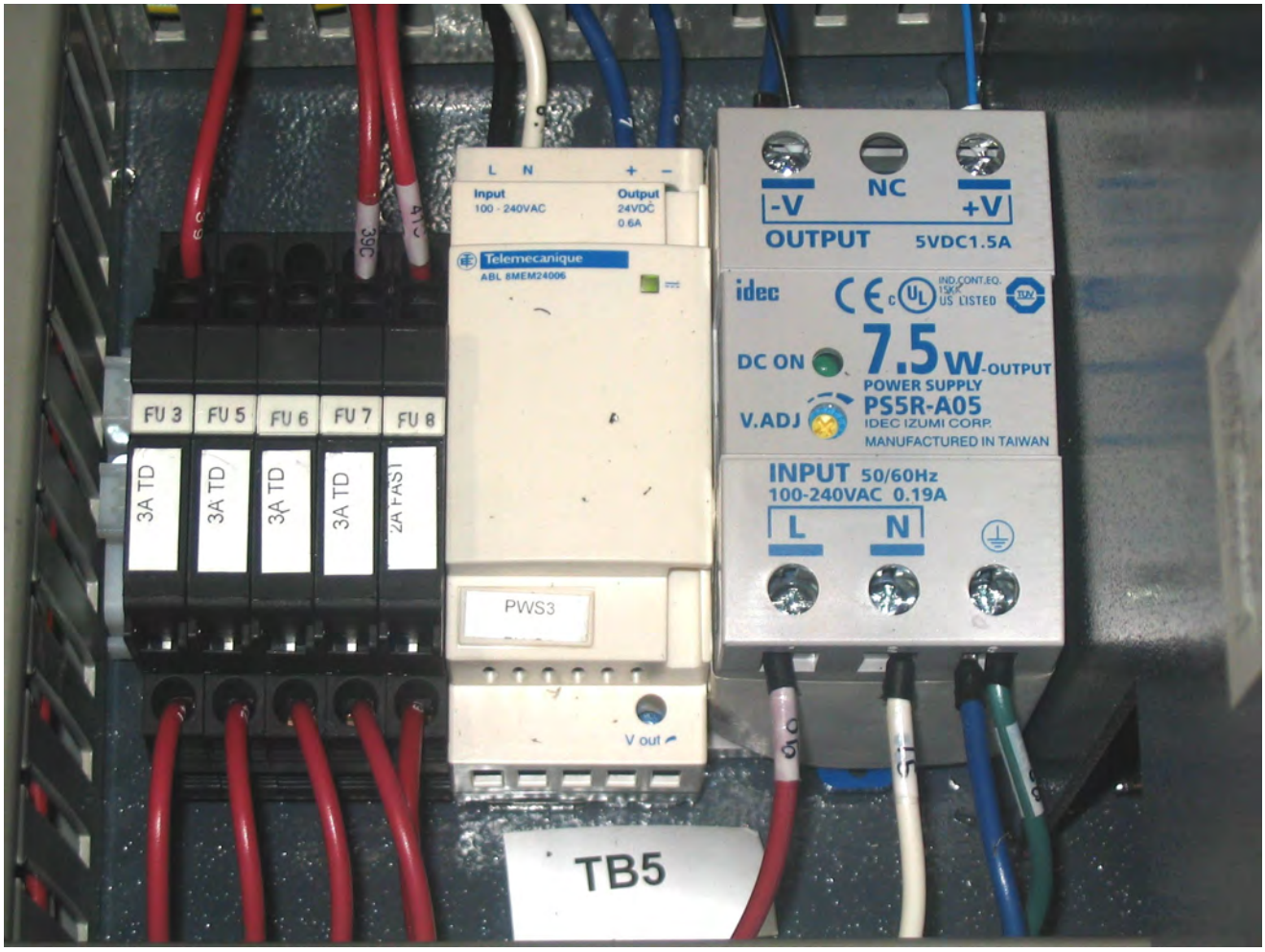
This indicates that the terminal is located on din rail TB3 and is terminal #7.

TB3
16 This would indicate that the terminal is mounted on TB3 and is terminal #16.

TB4

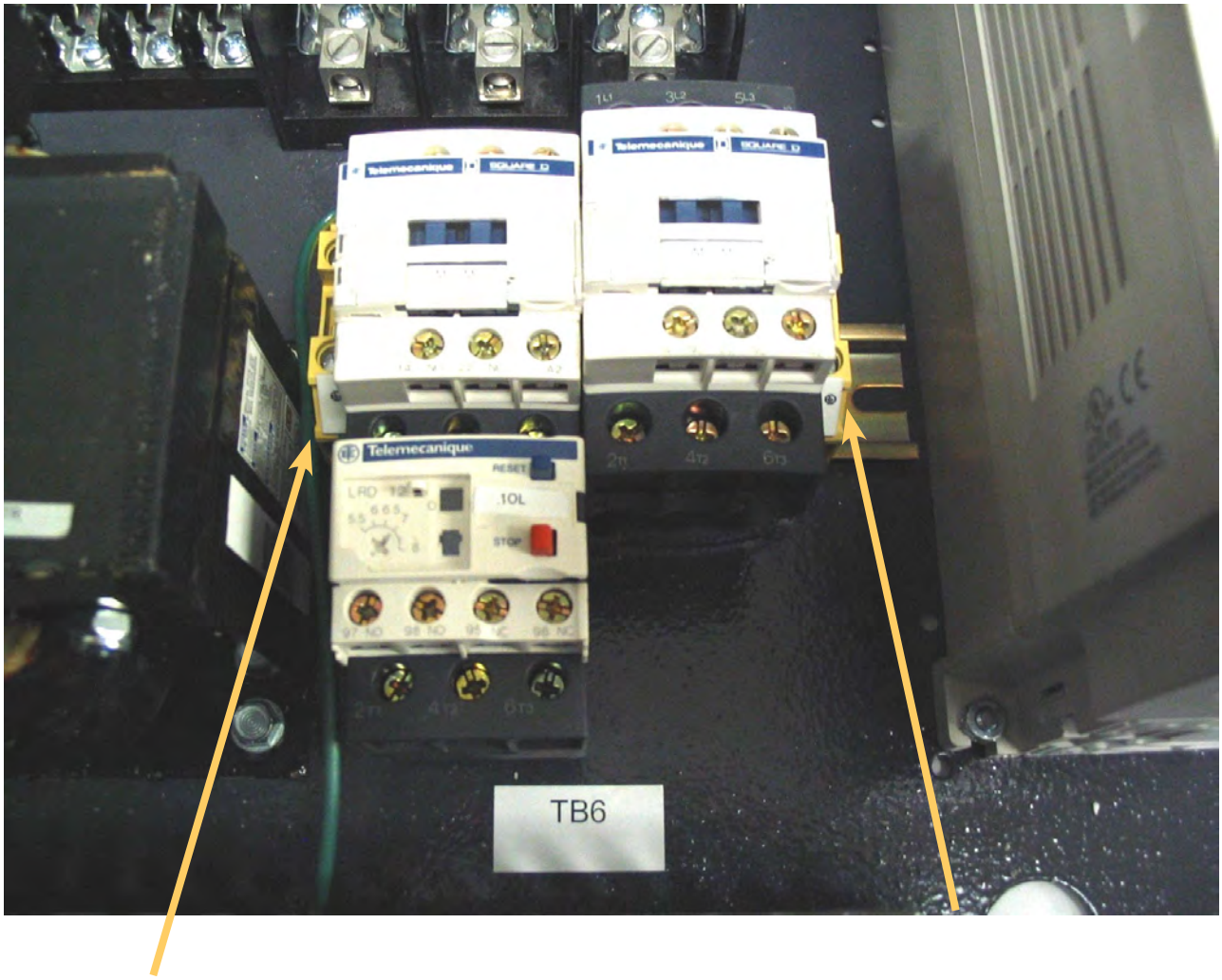
TB4 is located in the HMI control panel and will be included on page 7.

TB5



TB5 contains fusible terminals and a power supplies. These are identified on the schematic as FU3 to FU8 and PWS for the power supply.

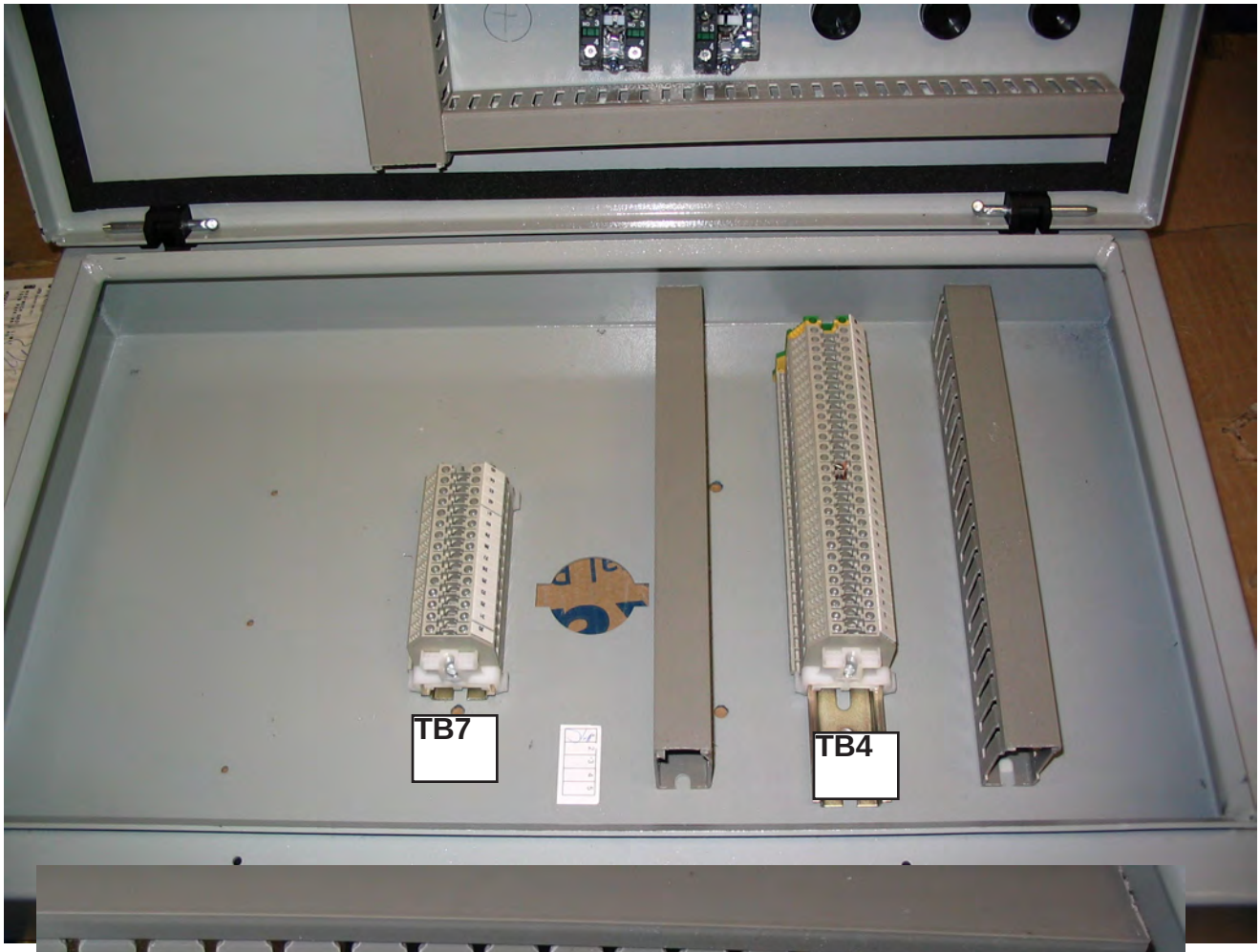
TB6

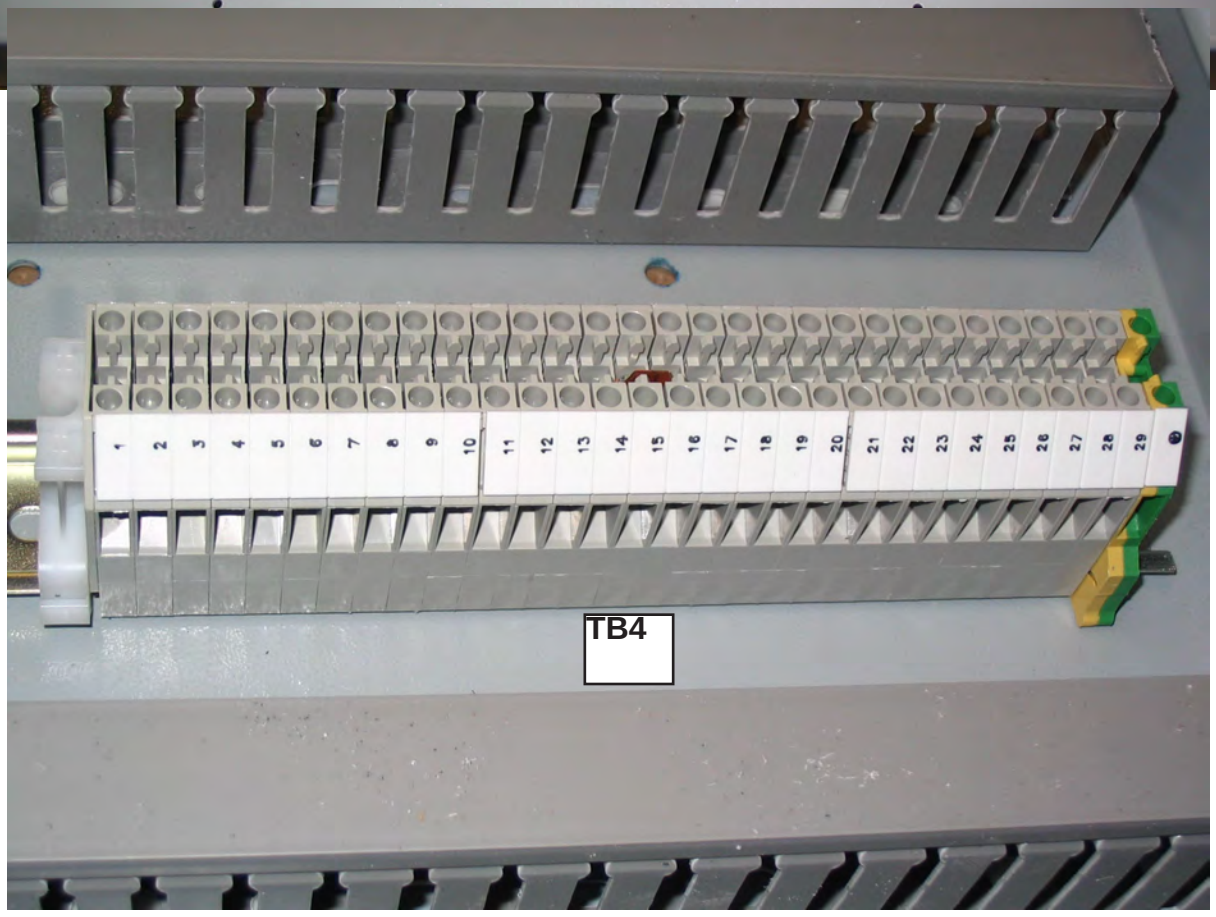


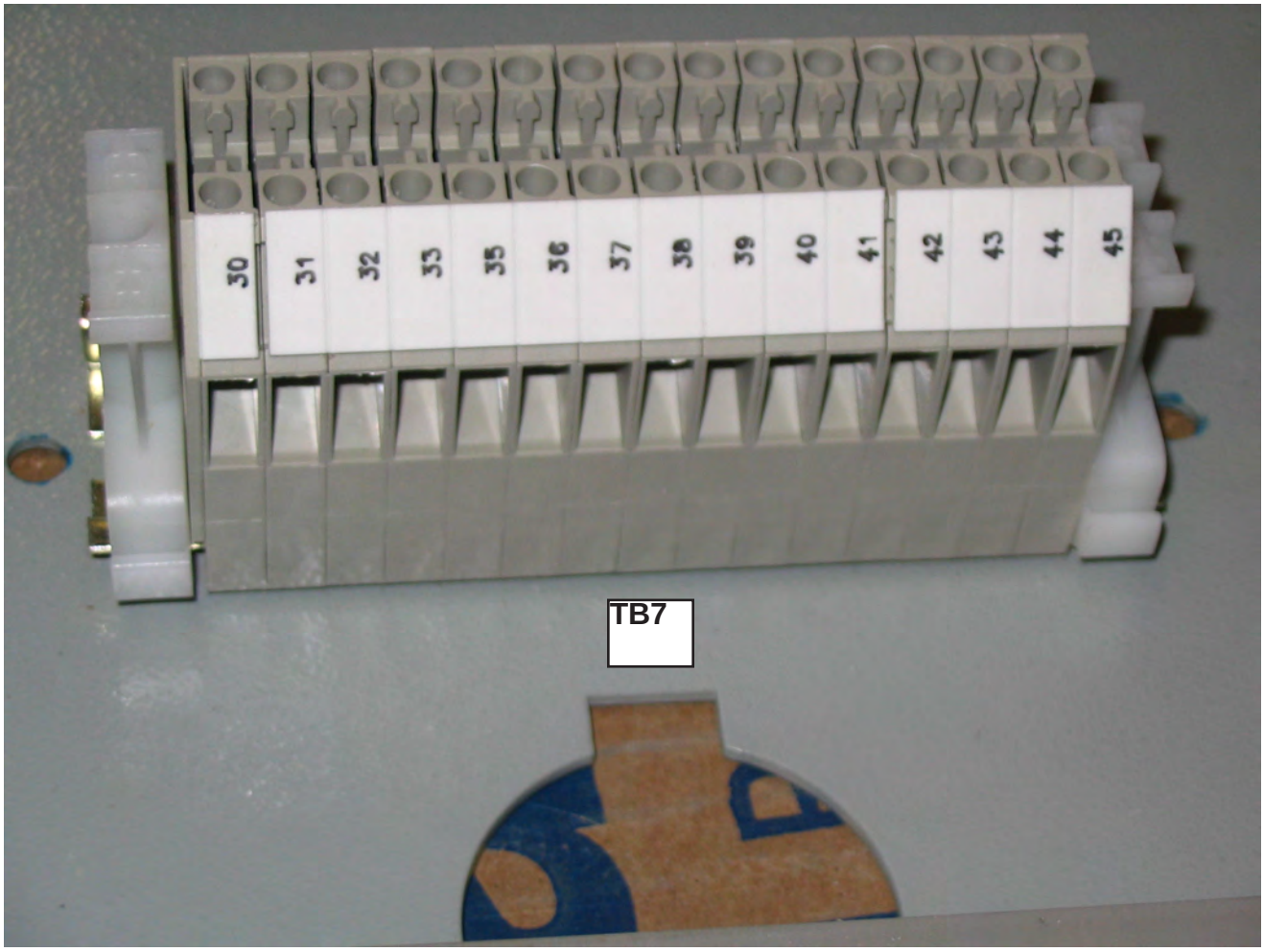
TB6 Contains ground terminals (partially visible) mounted either side of the contactors MS1M & MS2M and are indicated on the schematic as TB6 1 & TB6 2

The mounting location in the control panel is shown on page 1

TB4 & TB7







TB4 & TB7 are located in the HMI panel (Human Machine Interface). This houses the selector switches and push buttons.

As in the main panel the same concept applies, for example: TB4
25
This indicates that the terminal is located on din rail TB4 and is terminal #25.

The same concept applies for TB7 from terminals 30 to 45. Terminals 1 to 29 for TB7 do not exist and are not mounted in the electrical panel and are not included in the electrical documentation.

DT (Device Tag)

The remainder of the components in the control panel are labeled and are referred to in the documentation under the DT heading. For example:

DT, CR6 is the control relay labeled CR6.

DT, LS2 is the limit switch for Head Down function.

DT, MS 1M is the contactor labeled MS 1M.

DT, SS4 is the selector switch for Head Control.

Page and Row Numbers

In each title block of the project (electrical documentation) there are 2 headers, which are:

1. Page. This refers to the current page number

2. Pg. This refers to the total number of pages in the entire project and is for internal HYD•MECH use only.

On each Page there are a row of 4 digit numbers on the left of the page.
For example, Page 14 shows the numbers from 1400 to 1439.
The first 2 digits refer to the page number, which in this case is page 14.
The latter 2 digits refer to the row number, which in this case are from 00 to 39.

Whenever the electrical schematic shows a target to another page then the method described above should be used to locate the component, device, wire etc.

The same format applies when reading the wire list or cable list as the page and row number are included on the list.

HYD·MECH GROUP LTD.
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Created on : 01/10/2005
Edited on : 02/13/2015
From (abbr.) : jhayre

Company/customer : N/A

Drawing number : H28ASV-NA-7-00-1B

Project name : H28A & H32A SV Machine Rev D
Make : H28A & H32A Machines
Type : H
Mounting site : N/A
Responsible for project : JSH

Number of pages : 202

REV.	Affected pages	Modifications	Date	Editor
1B	1933	ECN00179	11/25/2014	jhayre

			Date	01/05/2015	N/A	HYD·MECH GROUP LTD.	Title page		=
			Edit.	jhayre					+
			Check.		NONE			H28ASV-NA-7-00-1B	Page 1
Modification	Date	Name	Standard		Origin	Crea. for	Crea. by		202 Pg.

LEGEND

DT PREFIX	SEQUENTIAL COUNTER	FUCNTION CODE
FU	1	A

FU: Fuse

MS: Motor Starter

OL: Overload

MTR: Motor

LS: Limit Switch

CR: Control Relay

TB: Terminal Block

LT: Pilot Light

PB: Push Button

SS: Selector Switch

POT: Potentiometer

CDT: Conduit

C: Cable

MP: Main Panel (Mounting Location)

HMI: Human Machine Interface (Mounting Location)

HV MP: High Voltage components in Main Panel

HD KIT: Items required for Head Kit

EXT: Externally mounted components

OP OFV: Option - Out Feed Vise

OP CC: Option - Chip Conveyor

OP M&C: Option - Mist & Coolant

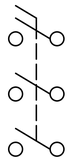
OP C: Option - Coolant

MS: Motor Starter / Contactor

CR: Relay Coil

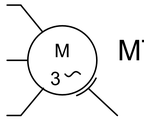
FU: Fusible Terminal

FU: Fuse


Disc: Disconnect Switch

OL: Overload

TR: Transformer



MTR: Motor, 3 Phase

MTR: Motor, AC Single Phase

Contact, Normally Closed

Contact, Normally Open

TB: Terminal

Wire Definition

LS: Normally Closed

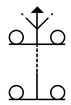
LS: Normally Open

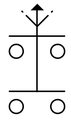
SS: Normally Closed, Key Operated

SS: Normally Open, Key Operated

SS: 2 Position, with 1 NC

SS: 2 Position, with 1 NO


SS: 3 Position Maintained, with 2NC


SS: 3 Position Maintained, with 2NO

PB: Emergency Stop

PB: Push Button, with NC

PB: Push Button, with NO

P: Proximity Switch NPN

SOL: Solonoid

Pilot Light

Next page
15

N/A
NONE
H28ASV-NA-7-00-1B

H28A & H32A SV Electrical Doc.

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www.hydmech.com

INFORMATION

Modification date 03/17/2005
Modified by jhayre

Check.
Form

LEGEND

HOW TO UNDERSTAND KEY/SELECTOR SWITCH AND CONTACT BLOCK OPERATION

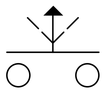
X00 = Contact Block ACTUATES when the Key/Selector switch is in the LEFT position

0X0 = Contact Block ACTUATES when the Key/Selector switch is in the CENTRE position

00X = Contact Block ACTUATES when the Key/Selector switch is in the RIGHT position

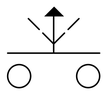
X0X = Contact Block ACTUATES when the Key/Selector switch is in the LEFT or RIGHT position. The contact block is not actuated when the Key/Selector switch is in the CENTRE position.

SSK2



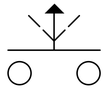
SSK2 = KEYSWITCH 3 POSITION.The symbol is shown with the key switch in the center position. Beside the NO contact, you will see X0X. This indicates that the NO contact is UN-ACTUATED in the key switch CENTRE position and is ACTUATED when the key switch is in the LEFT (OFF) position and ACTUATED when the key switch is in the RIGHT (ON) position.

SSK2



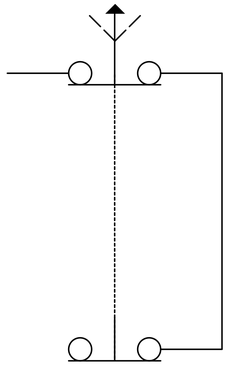
In this instance, 00X is displayed beside the contact block. The Contact will be ACTUATED when the key switch Is turned to the RIGHT (ON) position. If the key switch remains in the CENTER position, or is turned to the LEFT (OFF) position, the contact will remain UN-ACTUATED.

SSK2



In this instance, X00 is displayed beside the contact block. The Contact will be ACTUATED when the key switch Is turned to the LEFT (OFF) position. If the key switch remains in the CENTER position, or is turned to the RIGHT (ON) position, the contact will remain UN-ACTUATED.

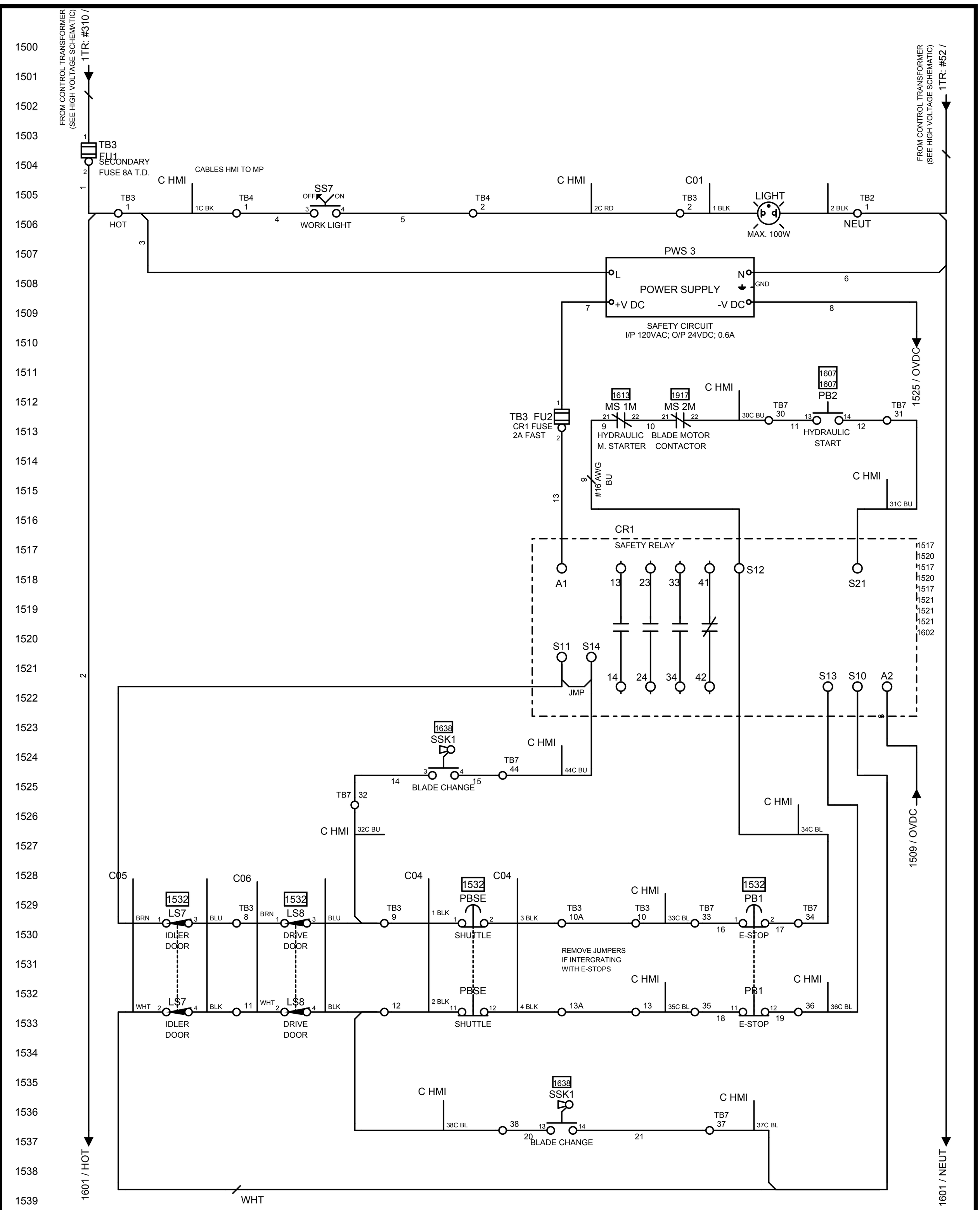
SS 4



In this instance, X00 is displayed beside the top contact block and 00X is displayed beside the bottom contact block.
When the switch is turned to the RETRACT position the NC contact block 1 & 2 will OPEN. NC contact block 11 & 12 will remain CLOSED.
When the switch is turned to the ADVANCE position the NC contact block 11 & 12 will OPEN. Contact block 1 & 2 will remain CLOSED.

Next page

Previous page
7000



H28A & H32A SV Electrical Doc. Schematic with NO Options -	HYD·MECH GROUP LTD. www.hydmech.com	Modification 04/11/2013 jhayre	Dwg. no. H28ASV-NA-7-00-1B	
		Schematic page	Schematic with NO Options -	Page 15 Pg. 202

HOT / 1536

2

2
#16 AWG
BK

1522
CR1
13 14
SAFETY RELAY

NEUT / 1536

23
#16 AWG
RD

23

C HMI

TB3
3

3C RD

TB4
3

SS2
NEUTRAL
OPEN CLOSE
1 2
00X
25
SHUTTLE VISE

26

SS3
NEUTRAL
OPEN CLOSE
1 2
00X
FRONT VISE

27

SS4
NEUTRAL
UP DOWN
1 2
X00
HEAD

28

OUTBOARD
VISE
OPTION

TB4
4

REMOVE JUMPER
WHEN OPTION IS
INSTALLED

TB4
5

29

1512
PB2
3 4
HYDRAULIC
START

30

31

1512
PB2
X1 X2
HYDRAULIC
START

32

TB4
6

1930 / C

C HMI
6C RD

1512 , 1612

MS 1M
14 13
33 24
HYDRAULIC
M. STARTER

TB3
6

34

22

OL1
13 14
HYDRAULIC
M. OVERLOAD

111

OL2
13 14
VFD
OVERLOAD

MS 1M
A1 A2
35
HYDRAULIC
M. STARTER

37

36

1917 / G

40C RD

1902 / B

1700 / A

C53

C53

SS5
HOLD
+/RUN -

TB3
4
RUN

3 BLK

3 4
BLADE TENSION

X00

1 BLK

TB3
15

C51

BLK

SOL 51

WHT

BLADE TENSION +

38

13 14
BLADE TENSION

00X

2 BLK

16

C52

BLK

SOL 52

WHT

BLADE TENSION -

C FAN

BK

FAN
1 2
HYDRAULIC EXHUAST
EXT

BK

TB2
2
NEUT

5
RUN

39

FU3
1 2
3A T.D.

41

COM1 / 1901

40

1936 / J

FU5
1 2
3A T.D.

42

COM3 / 1913

FU6
1 2
3A T.D.

43

COM4 / 1918

51

1700 / NEUT

C HMI
7C RD

TB4
7
RUN

44

SSK1
1 2
BLADE CHANGE

45

TB7
39

C HMI
39C RD

FU7
1 2
3A T.D.

46

COM5 / 1925

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		Schematic page	Schematic with NO Options -	Page 16 Pg. 202

A / 1616

C HMI

40C RD

TB7
40

47

SSK1
11 12
BLADE CHANGE

48

TB7
41

C HMI

41C RD

FU8
1 2
2A FAST

49

1838
PLC I/P
PLC INPUTS

L

NEUT / 1636

51

P1

PROXIMTY
SWITCH
NPN

1(+)

4(SIG)

3(-)

1 BRN

4 BLK

3 BLU

C P1

TB2
GND3
50

GND

51

#16 AWG
WH

51

N

E1

LENGTH
ENCODER
EXT

1(+VS)

2(COM)

3(A)

4(B)

5(N/C)

1 BRN

2 WHT

3 BLU

4 BLK

C E1

SH

SH

SH

JMP

S/S

24V

52

0V

53

X0
Channel B

X1
Channel A

X2
HSC I/P

E4

FEED RATE
ENCODER
EXT

1(+VS)

2(COM)

3(A)

4(B)

5(N/C)

1 BRN

2 WHT

4 BLK

3 BLU

C E4

SH

X3
Channel A

X4
Channel B

PLC INPUTS X5 TO X27
ARE SHOWN ON PAGE 19

TB1
1
24VDC

14C BU

1808 / H

2
0VDC

3
0VDC

1801 / I

1800 / NEUT

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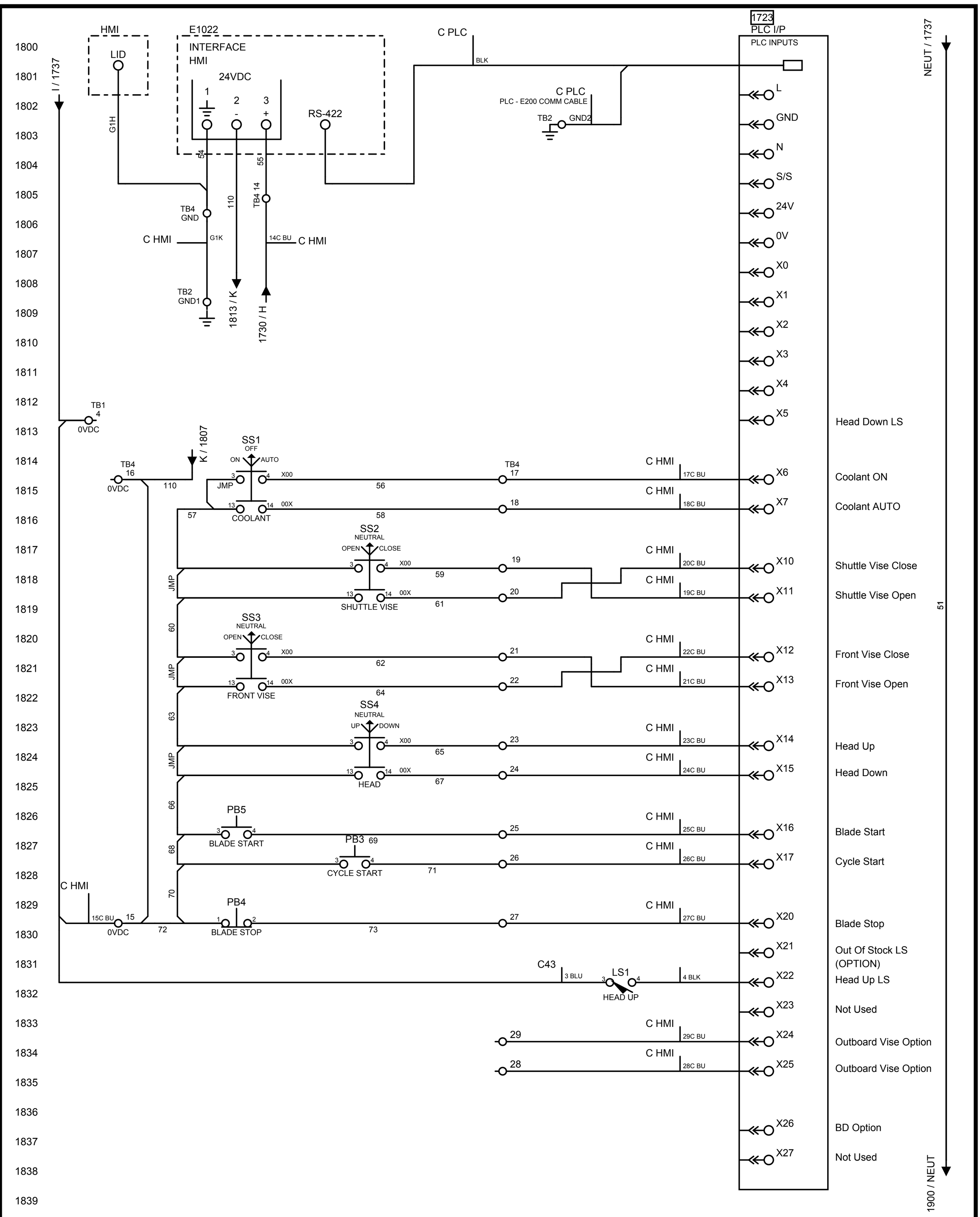
		Schematic page	Schematic with NO Options -	Page 17 Pg. 202



H28A & H32A SV Electrical Doc. Schematic with NO Options -	HYD·MECH GROUP LTD. www.hydmech.com	Modification 07/02/2014 jhayre	Dwg. no. H28ASV-NA-7-00-1B	
		Schematic page	Schematic with NO Options -	Page 18 Pg. 202

1900
1901
1902
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1927
1928
1929
1930
1931
1932
1933
1934
1935
1936
1937
1938
1939

PLC O/P
PLC OUTPUTS

COM1
Y0 Hydraulic Motor Latch
Y1 Not Used
Y2 Not Used
Y3 Pilot Light & Blade Brush
COM2 Contact Input Common
Y4 Forward Rotation Start
Y5 Output Stop
Y6 Not Used
Y7 Not Used
COM3
Y10 Front Vise Close
Y11 Front Vise Open
Y12 Shuttle Fast
Y13 2M Contactor
COM4
Y14 Shuttle REV
Y15 Shuttle FWD
Y16 Head Up
Y17 Head Down
COM5
Y20 Shuttle Vise Close
Y21 Shuttle Vise Open
Y22 Coolant
Y23 Cycle Pilot Light
Y24 Option
Y25 Option
Y26 BD Option
Y27 Not Used

1638 SSK1
C HMI 42C RD TB7 42 — 74 — 23 24 BLADE CHANGE — 75 — TB7 43 — C HMI 43C RD
COM1 / 1632
41
B / 1616
34
NEUT / 1837

C48 BLK SOL 48 WHT
C HMI 8C RD TB4 8 — 77 — PB5 X1 X2 BLADE START — 76 — TB7 45 — C HMI 45C WH
D / 1931
78
2002 VFD INVERTER
MP SD
STF
RH
SD

C ICT
4 BLK
1 BRN
2 WHT
TB2 GND4 — GSD — GSD #16 AWG YEGN

COM3 / 1634
42
C31 BLK SOL 31 WHT — TB2 3 NEUT 51
C32 BLK SOL 32 WHT
C13 BLK SOL 13 WHT — 4 NEUT
MS 2M A1 A2 — 1512 BLADE MOTOR CONTACTOR
80
G / 1616
36
COM4 / 1636
43
C11 BLK SOL 11 WHT
C12 BLK SOL 12 WHT — 5 NEUT
C41 BLK SOL 41 WHT
C42 BLK SOL 42 WHT — 6 NEUT
112
CR3 8(+) 1(-) HEAD DOWN
210
E / 1929

COM5 / 1638
46
C21 BLK SOL 21 WHT
C22 BLK SOL 22 WHT — 7 NEUT
C HMI 9C RD TB4 9 — TB4 10 — C HMI 10C RD
REMOVE JUMPER WHEN MIST OPTION IS INSTALLED
CR6 8(+) 1(-) COOLANT RELAY
81
210
1937
E / 1923
C HMI 12C RD 12 — 310 — PB3 X1 X2 CYCLE START — 32
C / 1608
78
D / 1905

CR3 6 5 JMP HEAD DOWN
C42-2 BLK SOL 42-2 WHT
C42-1 BLK SOL 42-1 WHT — 8 NEUT
3 4 HEAD DOWN
J / 1633
40
JMP
1938 JB2
C2 3M BLK
CR6 3 4 COOLANT RELAY
COOLANT JUNCTION BOX
C3M BRN
MTR COOLANT
MTR 1 COOLANT
1938 JB2
C2 3M BLU
COOLANT JUNCTION BOX

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		Schematic page	Schematic with NO Options -	Page 19 Pg. 202

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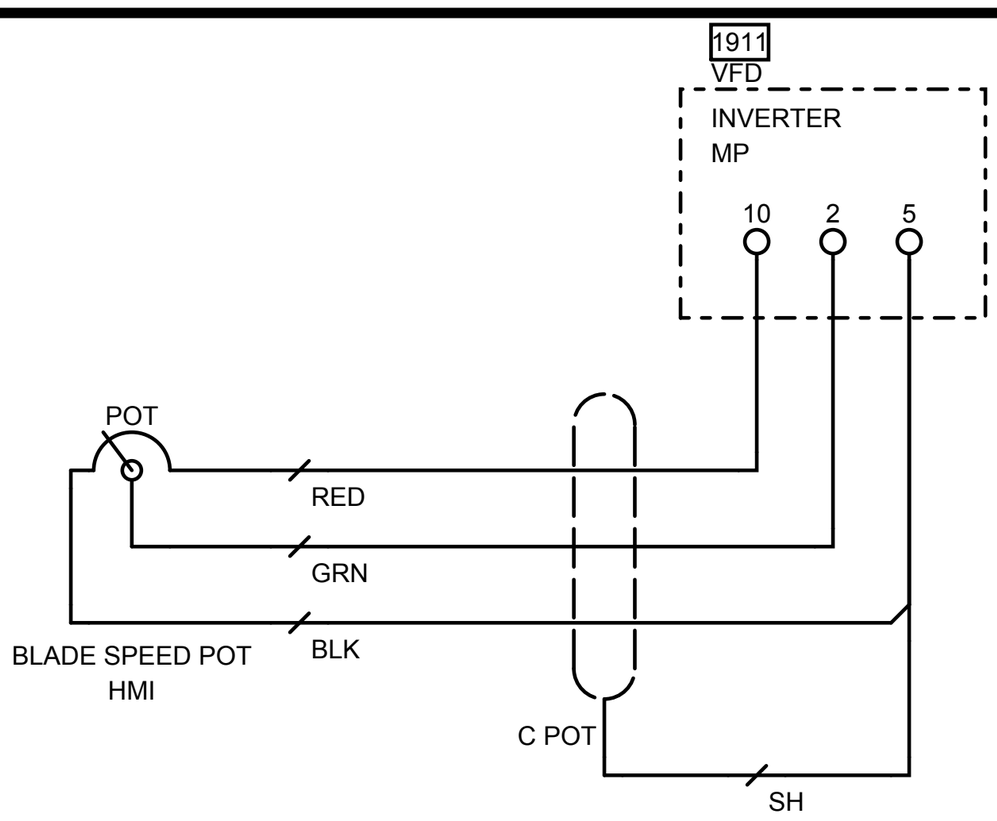
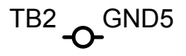
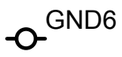
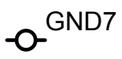
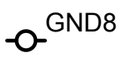
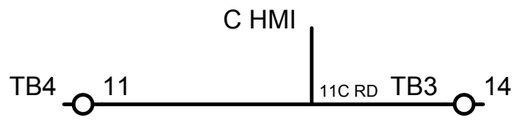




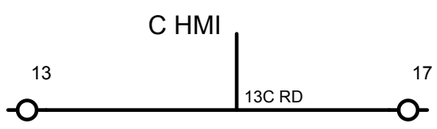




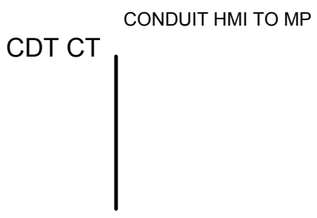




REQUIRED FOR MIST OPTION



REQUIRED FOR LASER OPTION



Parts usage indication

DIN_TNP_30

Part number	Qty	LTH	Designation	DT	Function text	X-ref
371767	1		Lamp holder, Porcelain, 660W 250V,	LIGHT	MAX. 100W	1505
370080	1		Bulb, 60 Watt	LIGHT	MAX. 100W	1505
360735	1		Fitting, Strain Relief, 16/3 & 16/4,	C01	WORK LIGHT	1504
370145	1	288	Cable, CE 18 Awg, 4 Con, Oil Resistant	C01	WORK LIGHT	1504
360735	1		Fitting, Strain Relief, 16/3 & 16/4,	C2 3M	COOLANT PUMP CABLE	1936
370215	1	80	Cable, Yellow, 16-3C Sjtow	C2 3M	COOLANT PUMP CABLE	1936
392365	2		Label Cord 0.75 x 1.5	C2 3M	COOLANT PUMP CABLE	1936
Coolant Pump	1		Cable, Pre wired to coolant pump	C3M	PRE-WIRED CABLE	1936
360735	1		Fitting, Strain Relief, 16/3 & 16/4,	C04	SHUTTLE EMERGENCY ST	1528
370146	1	228	Cable, CE, 18 awg, 5 conductor	C04	SHUTTLE EMERGENCY ST	1528
370098	1	393	Cable, 10M, 4 Wire, with Straight Female M12 Connector	C05	IDLER DOOR	1528
360735	1		Fitting, Strain Relief, 16/3 & 16/4,	C05	IDLER DOOR	1528
372759	2		Marker Bar, Unprinted, Used on M12 Cable	C05	IDLER DOOR	1528
372759	2		Marker Bar, Unprinted, Used on M12 Cable	C06	DRIVE DOOR	1528
370096	1	300	Cable, 10M, 4 Wire, with 90 Deg Female M12 Connector	C06	DRIVE DOOR	1528
360735	1		Fitting, Strain Relief, 16/3 & 16/4,	C06	DRIVE DOOR	1528
370500	1		Connector, Hirschmann	C11	SHUTTLE REVERSE	1919
370215	1	81	Cable, Yellow, 16-3C Sjtow	C11	SHUTTLE REVERSE	1919
372415	1		Resistor, 150 Ohm, 2W, Mf 5%	C11	SHUTTLE REVERSE	1919
360735	1		Fitting, Strain Relief, 16/3 & 16/4,	C11	SHUTTLE REVERSE	1919
371455	1		Heat Shrink, Black, 3/32	C11	SHUTTLE REVERSE	1919
370224	1		Capacitor, 0.33Uf, 250VDC, 10%	C11	SHUTTLE REVERSE	1919
371455	1		Heat Shrink, Black, 3/32	C12	SHUTTLE FORWARD	1920
370224	1		Capacitor, 0.33Uf, 250VDC, 10%	C12	SHUTTLE FORWARD	1920
370500	1		Connector, Hirschmann	C12	SHUTTLE FORWARD	1920
370215	1	74	Cable, Yellow, 16-3C Sjtow	C12	SHUTTLE FORWARD	1920
372415	1		Resistor, 150 Ohm, 2W, Mf 5%	C12	SHUTTLE FORWARD	1920
360735	1		Fitting, Strain Relief, 16/3 & 16/4,	C12	SHUTTLE FORWARD	1920
360735	1		Fitting, Strain Relief, 16/3 & 16/4,	C13	SHUTTLE FAST	1916
371455	1		Heat Shrink, Black, 3/32	C13	SHUTTLE FAST	1916
370224	1		Capacitor, 0.33Uf, 250VDC, 10%	C13	SHUTTLE FAST	1916
370500	1		Connector, Hirschmann	C13	SHUTTLE FAST	1916
370215	1	78	Cable, Yellow, 16-3C Sjtow	C13	SHUTTLE FAST	1916
372415	1		Resistor, 150 Ohm, 2W, Mf 5%	C13	SHUTTLE FAST	1916
370215	1	83	Cable, Yellow, 16-3C Sjtow	C21	SHUTTLE VISE CLOSE	1926
372415	1		Resistor, 150 Ohm, 2W, Mf 5%	C21	SHUTTLE VISE CLOSE	1926
360735	1		Fitting, Strain Relief, 16/3 & 16/4,	C21	SHUTTLE VISE CLOSE	1926

Parts usage indication

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Part number	Qty	LTH	Designation	DT	Function text	X-ref
371455	1		Heat Shrink, Black, 3/32	C21	SHUTTLE VISE CLOSE	1926
370224	1		Capacitor, 0.33Uf, 250VDC, 10%	C21	SHUTTLE VISE CLOSE	1926
370500	1		Connector, Hirschmann	C21	SHUTTLE VISE CLOSE	1926
370215	1	76	Cable, Yellow, 16-3C Sjtow	C22	SHUTTLE VISE OPEN	1927
370500	1		Connector, Hirschmann	C22	SHUTTLE VISE OPEN	1927
372415	1		Resistor, 150 Ohm, 2W, Mf 5%	C22	SHUTTLE VISE OPEN	1927
360735	1		Fitting, Strain Relief, 16/3 & 16/4,	C22	SHUTTLE VISE OPEN	1927
371455	1		Heat Shrink, Black, 3/32	C22	SHUTTLE VISE OPEN	1927
370224	1		Capacitor, 0.33Uf, 250VDC, 10%	C22	SHUTTLE VISE OPEN	1927
370215	1	72	Cable, Yellow, 16-3C Sjtow	C31	FRONT VISE CLOSE	1914
372415	1		Resistor, 150 Ohm, 2W, Mf 5%	C31	FRONT VISE CLOSE	1914
360735	1		Fitting, Strain Relief, 16/3 & 16/4,	C31	FRONT VISE CLOSE	1914
371455	1		Heat Shrink, Black, 3/32	C31	FRONT VISE CLOSE	1914
370224	1		Capacitor, 0.33Uf, 250VDC, 10%	C31	FRONT VISE CLOSE	1914
370500	1		Connector, Hirschmann	C31	FRONT VISE CLOSE	1914
370500	1		Connector, Hirschmann	C32	FRONT VISE OPEN	1915
370215	1	64	Cable, Yellow, 16-3C Sjtow	C32	FRONT VISE OPEN	1915
372415	1		Resistor, 150 Ohm, 2W, Mf 5%	C32	FRONT VISE OPEN	1915
360735	1		Fitting, Strain Relief, 16/3 & 16/4,	C32	FRONT VISE OPEN	1915
371455	1		Heat Shrink, Black, 3/32	C32	FRONT VISE OPEN	1915
370224	1		Capacitor, 0.33Uf, 250VDC, 10%	C32	FRONT VISE OPEN	1915
371455	1		Heat Shrink, Black, 3/32	C41	HEAD UP	1921
370224	1		Capacitor, 0.33Uf, 250VDC, 10%	C41	HEAD UP	1921
370500	1		Connector, Hirschmann	C41	HEAD UP	1921
370215	1	66	Cable, Yellow, 16-3C Sjtow	C41	HEAD UP	1921
372415	1		Resistor, 150 Ohm, 2W, Mf 5%	C41	HEAD UP	1921
360735	1		Fitting, Strain Relief, 16/3 & 16/4,	C41	HEAD UP	1921
360735	1		Fitting, Strain Relief, 16/3 & 16/4,	C42	HEAD DOWN	1922
371455	1		Heat Shrink, Black, 3/32	C42	HEAD DOWN	1922
370224	1		Capacitor, 0.33Uf, 250VDC, 10%	C42	HEAD DOWN	1922
370500	1		Connector, Hirschmann	C42	HEAD DOWN	1922
370215	1	64	Cable, Yellow, 16-3C Sjtow	C42	HEAD DOWN	1922
372415	1		Resistor, 150 Ohm, 2W, Mf 5%	C42	HEAD DOWN	1922
370500	1		Connector, Hirschmann	C42-1	#1 HEAD DOWN DRIVE S	1935
370215	1	180	Cable, Yellow, 16-3C Sjtow	C42-1	#1 HEAD DOWN DRIVE S	1935
372415	1		Resistor, 150 Ohm, 2W, Mf 5%	C42-1	#1 HEAD DOWN DRIVE S	1935
360735	1		Fitting, Strain Relief, 16/3 & 16/4,	C42-1	#1 HEAD DOWN DRIVE S	1935

Parts usage indication

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Part number	Qty	LTH	Designation	DT	Function text	X-ref
371455	1		Heat Shrink, Black, 3/32	C42-1	#1 HEAD DOWN DRIVE S	1935
370224	1		Capacitor, 0.33Uf, 250VDC, 10%	C42-1	#1 HEAD DOWN DRIVE S	1935
370500	1		Connector, Hirschmann	C42-2	#2 HEAD DOWN IDLER S	1933
370215	1	275	Cable, Yellow, 16-3C Sjtow	C42-2	#2 HEAD DOWN IDLER S	1933
372415	1		Resistor, 150 Ohm, 2W, Mf 5%	C42-2	#2 HEAD DOWN IDLER S	1933
360735	1		Fitting, Strain Relief, 16/3 & 16/4,	C42-2	#2 HEAD DOWN IDLER S	1933
371455	1		Heat Shrink, Black, 3/32	C42-2	#2 HEAD DOWN IDLER S	1933
370224	1		Capacitor, 0.33Uf, 250VDC, 10%	C42-2	#2 HEAD DOWN IDLER S	1933
372759	2		Marker Bar, Unprinted, Used on M12 Cable	C43	HEAD UP LS	1831
370098	1	310	Cable, 10M, 4 Wire, with Straight Female M12 Connector	C43	HEAD UP LS	1831
360735	1		Fitting, Strain Relief, 16/3 & 16/4,	C43	HEAD UP LS	1831
392365	1		Label Cord 0.75 x 1.5	C48	BLADE BRUSH	1903
371455	1		Heat Shrink, Black, 3/32	C48	BLADE BRUSH	1903
370224	1		Capacitor, 0.33Uf, 250VDC, 10%	C48	BLADE BRUSH	1903
360735	1		Fitting, Strain Relief, 16/3 & 16/4,	C48	BLADE BRUSH	1903
370500	1		Connector, Hirschmann	C48	BLADE BRUSH	1903
370215	1	120	Cable, Yellow, 16-3C Sjtow	C48	BLADE BRUSH	1903
372415	1		Resistor, 150 Ohm, 2W, Mf 5%	C48	BLADE BRUSH	1903
370500	1		Connector, Hirschmann	C51	BLADE TENSION +	1621
370215	1	72	Cable, Yellow, 16-3C Sjtow	C51	BLADE TENSION +	1621
372415	1		Resistor, 150 Ohm, 2W, Mf 5%	C51	BLADE TENSION +	1621
360735	1		Fitting, Strain Relief, 16/3 & 16/4,	C51	BLADE TENSION +	1621
371455	1		Heat Shrink, Black, 3/32	C51	BLADE TENSION +	1621
370224	1		Capacitor, 0.33Uf, 250VDC, 10%	C51	BLADE TENSION +	1621
370500	1		Connector, Hirschmann	C52	BLADE TENSION -	1624
370215	1	73	Cable, Yellow, 16-3C Sjtow	C52	BLADE TENSION -	1624
372415	1		Resistor, 150 Ohm, 2W, Mf 5%	C52	BLADE TENSION -	1624
360735	1		Fitting, Strain Relief, 16/3 & 16/4,	C52	BLADE TENSION -	1624
371455	1		Heat Shrink, Black, 3/32	C52	BLADE TENSION -	1624
370224	1		Capacitor, 0.33Uf, 250VDC, 10%	C52	BLADE TENSION -	1624
360735	1		Fitting, Strain Relief, 16/3 & 16/4,	C53	BLADE TENSION S/S	1620
370145	1	396	Cable, CE 18 Awg, 4 Con, Oil Resistant	C53	BLADE TENSION S/S	1620
372759	2		Marker Bar, Unprinted, Used on M12 Cable	C E1	LENGTH ENCODER	1713
370097	1	360	Cable, Shielded, PUR, 10M, 4 Pole, with Straight Female M12 Connector	C E1	LENGTH ENCODER	1713
360735	1		Fitting, Strain Relief, 16/3 & 16/4,	C E1	LENGTH ENCODER	1713
372759	2		Marker Bar, Unprinted, Used on M12 Cable	C E4	FEED RATE ENCODER	1723
370097	1	360	Cable, Shielded, PUR, 10M, 4 Pole, with Straight Female M12 Connector	C E4	FEED RATE ENCODER	1723

Parts usage indication

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Part number	Qty	LTH	Designation		DT	Function text	X-ref
360735	1		Fitting, Strain Relief, 16/3 & 16/4,		C E4	FEED RATE ENCODER	1723
H18-CDT CT-NA-00-1	1		Conduit, Control, HMI to MP	Multi Conductor, 16AWG, 44 Wire,	C HMI	CABLES HMI TO MP	1504
370097	1	65	Cable, Shielded, PUR, 10M, 4 Pole, with	Straight Female M12 Connector	C ICT	INVERTER CONTROL	1907
372759	2		Marker Bar, Unprinted, Used on M12 Cable		C P1	PROXIMITY SWITCH	1707
370097	1	393	Cable, Shielded, PUR, 10M, 4 Pole, with	Straight Female M12 Connector	C P1	PROXIMITY SWITCH	1707
360735	1		Fitting, Strain Relief, 16/3 & 16/4,		C P1	PROXIMITY SWITCH	1707
370152	1		Cable, Communicaton, 5M, E-Series,		C PLC	PLC - E200 COMM CABL	1801
360735	1		Fitting, Strain Relief, 16/3 & 16/4,		C POT	POTENTIOMETER	2007
370105	1	200	Cable, 22(7) 2 Pr. Ind. Foil Shield		C POT	POTENTIOMETER	2007
C POT	1		Cable, Potentiometer		CDT CT	CONDUIT HMI TO MP	2030
373205	1	2,224	Wire, 16 Awg / 26, TEW, Red		CDT CT	CONDUIT HMI TO MP	2030
370420	2		Connector, Conduit, 1 1/4"	Plastic, Straight, LT	CDT CT	CONDUIT HMI TO MP	2030
373125	1	139	Wire, 12 Awg / 19, T90, Black		CDT CT	CONDUIT HMI TO MP	2030
C PLC	1		Cable, Communicaton		CDT CT	CONDUIT HMI TO MP	2030
373160	1	146	Wire, 12 Awg / 19, T90, Green-Yellow		CDT CT	CONDUIT HMI TO MP	2030
370295	1	108	Conduit, Flexible Non Metallic Tubing,	1 1/4 in.	CDT CT	CONDUIT HMI TO MP	2030
H18-CDT CT-NA-00-1	1		Conduit, Control, HMI to MP	Multi Conductor, 16AWG, 44 Wire,	CDT CT	CONDUIT HMI TO MP	2030
373140	1	3,663	Wire, 16 Awg / 26, TEW, Dark Blue		CDT CT	CONDUIT HMI TO MP	2030
373215	1	145	Wire, 12 Awg / 19, T90, White		CDT CT	CONDUIT HMI TO MP	2030
371569	1		Relay, Safety, 24VDC	3N/O & 1N/C O/P	CR1	SAFETY RELAY	1522
372390	1		Relay, Dpdt, 5 Amp Switching,	Plug In, ac 120V	CR3	HEAD DOWN	1923
372385	1		Relay Base, Surface Mount,	Used with DPDT relay	CR3	HEAD DOWN	1923
372385	1		Relay Base, Surface Mount,	Used with DPDT relay	CR6	COOLANT RELAY	1928
372390	1		Relay, Dpdt, 5 Amp Switching,	Plug In, ac 120V	CR6	COOLANT RELAY	1928
371039	1		Encoder, 2500 ppr,	M12 5-Pin Radial Connector	E1	LENGTH ENCODER	1714
371026	1		Encoder, 8192 ppr,	M12 5-Pin Radial Connector	E4	FEED RATE ENCODER	1724
371481	1		Interface, E-Series, E1022, 24VDC,		E1022	INTERFACE	1803
371090	1		Fan Guard, Cooling Guard		FAN	HYDRAULIC EXHUAST	1628
371100	1		Fan, Cooling, 115V, 0.2/0.18A, 50/60HZ,	Impedance Protected, Muffin XI Exaust	FAN	HYDRAULIC EXHUAST	1628
371085	1		Fan Cord, Cooling Rotron Cord 60 in.		FAN	HYDRAULIC EXHUAST	1628
372760	4		Terminal, 12 Pole 22-14 Awg, 20A, 300V		JB2	COOLANT JUNCTION BOX	1938
370040	1		Box, Junction, Coolant		JB2	COOLANT JUNCTION BOX	1938
373313	1		Switch, Actuator, Rotary Head	without lever, Spring Return	LS1	HEAD UP	1831
372524	1		Switch, Limit, 1NO & 1NC, M12 Connector	1NO & 1NC, M12 Connector	LS1	HEAD UP	1831
373314	1		Lever, Roller, Thermoplastic		LS1	HEAD UP	1831
372547	1		Switch, Safety, Hinge Acuator with	hollow shaft, M12 Connector	LS7	IDLERDOOR	1529
372547	1		Switch, Safety, Hinge Acuator with	hollow shaft, M12 Connector	LS8	DRIVEDOOR	1529

Parts usage indication

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Part number	Qty	LTH	Designation	DT	Function text	X-ref
341684	1		Pump Coolant Submersible 3E-12NY 115V 60Hz 3.2A 12ft SJTOW Cable, no plug	MTR COOLANT	COOLANT	1937
372423	1		Sensor, Proximity, 4mm Sensing, with M12 Connector	P1	PROXIMTY SWITCH NPN	1705
370529	1		Block, Contact, 1 NC	PB1	E-STOP	1529
372326	1		Push Button, Mushroom Head, Push Pull, Red	PB1	E-STOP	1529
370571	1		Contact Block, Body & 1 NC	PB1	E-STOP	1529
372306	1		Push Button, Illuminated Green, Flush	PB2	HYDRAULIC START	1512
370591	1		Contact Block, Body Illuminated & 1 NO,	PB2	HYDRAULIC START	1512
370532	1		Block, Contact, 1 NO	PB2	HYDRAULIC START	1512
370070	1		Bulb, LED, 120VAC/DC, White 50/60Hz, 20mA	PB2	HYDRAULIC START	1512
372311	1		Push Button, Illuminated White, Flush	PB3	CYCLE START	1827
370070	1		Bulb, LED, 120VAC/DC, White 50/60Hz, 20mA	PB3	CYCLE START	1827
370591	1		Contact Block, Body Illuminated & 1 NO,	PB3	CYCLE START	1827
370571	1		Contact Block, Body & 1 NC	PB4	BLADE STOP	1829
372291	1		Push Button, Flush, Black	PB4	BLADE STOP	1829
372306	1		Push Button, Illuminated Green, Flush	PB5	BLADE START	1826
370070	1		Bulb, LED, 120VAC/DC, White 50/60Hz, 20mA	PB5	BLADE START	1826
370591	1		Contact Block, Body Illuminated & 1 NO,	PB5	BLADE START	1826
395569	1		Push Button, Mushroom Head, Push Pull, Red	PBSE	SHUTTLE	1529
370529	2		Block, Contact, 1 NC	PBSE	SHUTTLE	1529
395570	1		Mounting Collar for 395569	PBSE	SHUTTLE	1529
371005	1		Enclosure, Plastic, For Push Button Station,	PBSE	SHUTTLE	1529
372239	1		AC BASE UNIT, 24DC IN/24 RLY OUT	PLC I/P	PLC INPUTS	1723
372195	1		Potentiometer, 1K, Short,	POT	BLADE SPEED POT	2004
815297	1		Power Supply, I/P=100-240VAC, 50/60Hz O/P=24VDC,0.6A,15W	PWS 3	SAFETY CIRCUIT	1507
372636	1		Switch, Selector, 3 Position Maintained,	SS1	COOLANT	1815
370586	1		Contact Block, Body & 2 NO	SS1	COOLANT	1815
372652	1		Switch, Selector, 3 Position, Spring Ret Left to Center & Maintained to Right	SS2	SHUTTLE VISE	1607
370529	1		Block, Contact, 1 NC	SS2	SHUTTLE VISE	1607
370586	1		Contact Block, Body & 2 NO	SS2	SHUTTLE VISE	1607
370529	1		Block, Contact, 1 NC	SS3	FRONT VISE	1607
372652	1		Switch, Selector, 3 Position, Spring Ret Left to Center & Maintained to Right	SS3	FRONT VISE	1607
370586	1		Contact Block, Body & 2 NO	SS3	FRONT VISE	1607
372636	1		Switch, Selector, 3 Position Maintained,	SS4	HEAD	1824
370529	1		Block, Contact, 1 NC	SS4	HEAD	1824
370586	1		Contact Block, Body & 2 NO	SS4	HEAD	1824
391620	1		Label, Blade Tension, +/run/H/-, Silver Overlay, NA 'H' & 'V' Machines	SS5	BLADE TENSION	1623
370586	1		Contact Block, Body & 2 NO	SS5	BLADE TENSION	1623

Parts usage indication

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Part number	Qty	LTH	Designation		DT	Function text	X-ref
373351	1		Enclosure, 3 X 3 X 2, CSA, UL,	comes with adapter, BT	SS5	BLADE TENSION	1623
372636	1		Switch, Selector, 3 Position Maintained,		SS5	BLADE TENSION	1623
370510	1		Connector, 1/2 in. NPT,	Liquid Tight,	SS5	BLADE TENSION	1623
370576	1		Contact Block, Body & 1 NO		SS7	WORK LIGHT	1505
372626	1		Switch, Selector, 2 Position Maintained,		SS7	WORK LIGHT	1505
370532	1		Block, Contact, 1 NO		SSK1	BLADE CHANGE	1638
370529	2		Block, Contact, 1 NC		SSK1	BLADE CHANGE	1638
391567	1		Label, Overlay, Blade Change Mode,	On, Off	SSK1	BLADE CHANGE	1638
372621	1		Switch, Selector, 2 Position Key		SSK1	BLADE CHANGE	1638
370586	1		Contact Block, Body & 2 NO		SSK1	BLADE CHANGE	1638

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Parts usage indication

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Part number	Qty	LTH	Designation	DT	Function text	X-ref
372335	11		Rail, Din 35 x 7, 5 Slotted 2M	TB1		
371070	2		End Clamp, Used with 35 x 7.5 din rail	TB1		
371065	1		End Plate, Beige, Used with WK 4 term	TB1 :1		1728
372755	1		Terminal Markers, Marcom	TB1 :1		1728
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB1 :1		1728
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB1 :2		1731
372775	1		Terminal, Jumper, Used with WK 4 term.	TB1 :2		1731
372755	1		Terminal Markers, Marcom	TB1 :2		1731
372755	1		Terminal Markers, Marcom	TB1 :3		1733
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB1 :3		1733
372775	1		Terminal, Jumper, Used with WK 4 term.	TB1 :3		1733
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB1 :4		1812
372775	1		Terminal, Jumper, Used with WK 4 term.	TB1 :4		1812
372755	1		Terminal Markers, Marcom	TB1 :4		1812

Parts usage indication

DIN_TNP_30

Part number	Qty	LTH	Designation	DT	Function text	X-ref
371070	1		End Clamp, Used with 35 x 7.5 din rail	TB2		
372335	5		Rail, Din 35 x 7, 5 Slotted 2M	TB2		
371065	1		End Plate, Beige, Used with WK 4 term	TB2 :1		1505
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB2 :1		1505
372755	1		Terminal Markers, Marcom	TB2 :1		1505
372775	1		Terminal, Jumper, Used with WK 4 term.	TB2 :1		1505
372775	1		Terminal, Jumper, Used with WK 4 term.	TB2 :2		1628
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB2 :2		1628
372755	1		Terminal Markers, Marcom	TB2 :2		1628
372775	1		Terminal, Jumper, Used with WK 4 term.	TB2 :3		1914
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB2 :3		1914
372755	1		Terminal Markers, Marcom	TB2 :3		1914
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB2 :4		1916
372755	1		Terminal Markers, Marcom	TB2 :4		1916
372775	1		Terminal, Jumper, Used with WK 4 term.	TB2 :4		1916
372775	1		Terminal, Jumper, Used with WK 4 term.	TB2 :5		1920
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB2 :5		1920
372755	1		Terminal Markers, Marcom	TB2 :5		1920
372755	1		Terminal Markers, Marcom	TB2 :6		1922
372775	1		Terminal, Jumper, Used with WK 4 term.	TB2 :6		1922
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB2 :6		1922
372775	1		Terminal, Jumper, Used with WK 4 term.	TB2 :7		1927
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB2 :7		1927
372755	1		Terminal Markers, Marcom	TB2 :7		1927
372775	1		Terminal, Jumper, Used with WK 4 term.	TB2 :8		1935
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB2 :8		1935
372755	1		Terminal Markers, Marcom	TB2 :8		1935
372715	1		Terminal, Duo PE, 22-12 AWG, 600V, 30A	TB2 :GND1		1808
372755	1		Terminal Markers, Marcom	TB2 :GND1		1808
372755	1		Terminal Markers, Marcom	TB2 :GND2		1802
372715	1		Terminal, Duo PE, 22-12 AWG, 600V, 30A	TB2 :GND2		1802
372715	1		Terminal, Duo PE, 22-12 AWG, 600V, 30A	TB2 :GND3		1704
372755	1		Terminal Markers, Marcom	TB2 :GND3		1704
372755	1		Terminal Markers, Marcom	TB2 :GND4		1910
372715	1		Terminal, Duo PE, 22-12 AWG, 600V, 30A	TB2 :GND4		1910
372755	1		Terminal Markers, Marcom	TB2 :GND5		2012
372715	1		Terminal, Duo PE, 22-12 AWG, 600V, 30A	TB2 :GND5		2012

Parts usage indication

DIN_TNP_30

Part number	Qty	LTH	Designation	DT	Function text	X-ref
372755	1		Terminal Markers, Marcom	TB2 :GND6		2014
372715	1		Terminal, Duo PE, 22-12 AWG, 600V, 30A	TB2 :GND6		2014
372755	1		Terminal Markers, Marcom	TB2 :GND7		2016
372715	1		Terminal, Duo PE, 22-12 AWG, 600V, 30A	TB2 :GND7		2016
372755	1		Terminal Markers, Marcom	TB2 :GND8		2018
372715	1		Terminal, Duo PE, 22-12 AWG, 600V, 30A	TB2 :GND8		2018

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Parts usage indication

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Part number	Qty	LTH	Designation	DT	Function text	X-ref
372335	11		Rail, Din 35 x 7, 5 Slotted 2M	TB3		
371070	2		End Clamp, Used with 35 x 7.5 din rail	TB3		
372755	1		Terminal Markers, Marcom	TB3 :1		1505
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB3 :1		1505
371065	1		End Plate, Beige, Used with WK 4 term	TB3 :1		1505
372755	1		Terminal Markers, Marcom	TB3 :2		1505
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB3 :2		1505
372755	1		Terminal Markers, Marcom	TB3 :3		1607
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB3 :3		1607
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB3 :4		1622
372775	1		Terminal, Jumper, Used with WK 4 term.	TB3 :4		1622
372755	1		Terminal Markers, Marcom	TB3 :4		1622
372755	1		Terminal Markers, Marcom	TB3 :5		1632
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB3 :5		1632
372775	1		Terminal, Jumper, Used with WK 4 term.	TB3 :5		1632
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB3 :6		1613
372755	1		Terminal Markers, Marcom	TB3 :6		1613
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB3 :7		2026
372755	1		Terminal Markers, Marcom	TB3 :7		2026
372755	1		Terminal Markers, Marcom	TB3 :8		1529
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB3 :8		1529
372755	1		Terminal Markers, Marcom	TB3 :9		1529
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB3 :9		1529
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB3 :10		1529
372775	1		Terminal, Jumper, Used with WK 4 term.	TB3 :10		1529
372755	1		Terminal Markers, Marcom	TB3 :10		1529
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB3 :10A		1529
372775	1		Terminal, Jumper, Used with WK 4 term.	TB3 :10A		1529
372755	1		Terminal Markers, Marcom	TB3 :10A		1529
372755	1		Terminal Markers, Marcom	TB3 :11		1532
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB3 :11		1532
372755	1		Terminal Markers, Marcom	TB3 :12		1532
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB3 :12		1532
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB3 :13		1532
372775	1		Terminal, Jumper, Used with WK 4 term.	TB3 :13		1532
372755	1		Terminal Markers, Marcom	TB3 :13		1532
372755	1		Terminal Markers, Marcom	TB3 :13A		1532

Parts usage indication

DIN_TNP_30

Part number	Qty	LTH	Designation	DT	Function text	X-ref
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB3 :13A		1532
372775	1		Terminal, Jumper, Used with WK 4 term.	TB3 :13A		1532
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB3 :14		2021
372755	1		Terminal Markers, Marcom	TB3 :14		2021
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB3 :15		1622
372755	1		Terminal Markers, Marcom	TB3 :15		1622
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB3 :16		1625
372755	1		Terminal Markers, Marcom	TB3 :16		1625
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB3 :17		2024
372755	1		Terminal Markers, Marcom	TB3 :17		2024
372802	1		Terminal, Fusible, (6.3x32), 400V, ST Spring Cage	TB3 :FU1		1503
372756	1		Terminal Markers, Unprinted, Used with ZFK Fuse Terminals	TB3 :FU1		1503
372802	1		Terminal, Fusible, (6.3x32), 400V, ST Spring Cage	TB3 :FU2		1512
371285	1		Fuse, Fast Acting, 2A Glass 1/4 x 1-1/4	TB3 :FU2		1512
372756	1		Terminal Markers, Unprinted, Used with ZFK Fuse Terminals	TB3 :FU2		1512

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Parts usage indication

DIN_TNP_30

Part number	Qty	LTH	Designation	DT	Function text	X-ref
371070	1		End Clamp, Used with 35 x 7.5 din rail	TB4		
372335	12		Rail, Din 35 x 7, 5 Slotted 2M	TB4		
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB4 :1		1505
371065	1		End Plate, Beige, Used with WK 4 term	TB4 :1		1505
372755	1		Terminal Markers, Marcom	TB4 :1		1505
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB4 :2		1505
372755	1		Terminal Markers, Marcom	TB4 :2		1505
372755	1		Terminal Markers, Marcom	TB4 :3		1607
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB4 :3		1607
372755	1		Terminal Markers, Marcom	TB4 :4		1607
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB4 :4		1607
372775	1		Terminal, Jumper, Used with WK 4 term.	TB4 :4		1607
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB4 :5		1607
372775	1		Terminal, Jumper, Used with WK 4 term.	TB4 :5		1607
372755	1		Terminal Markers, Marcom	TB4 :5		1607
372755	1		Terminal Markers, Marcom	TB4 :6		1609
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB4 :6		1609
372755	1		Terminal Markers, Marcom	TB4 :7		1638
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB4 :7		1638
372755	1		Terminal Markers, Marcom	TB4 :8		1905
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB4 :8		1905
372775	1		Terminal, Jumper, Used with WK 4 term.	TB4 :9		1928
372755	1		Terminal Markers, Marcom	TB4 :9		1928
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB4 :9		1928
372755	1		Terminal Markers, Marcom	TB4 :10		1928
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB4 :10		1928
372775	1		Terminal, Jumper, Used with WK 4 term.	TB4 :10		1928
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB4 :11		2021
372755	1		Terminal Markers, Marcom	TB4 :11		2021
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB4 :12		1930
372755	1		Terminal Markers, Marcom	TB4 :12		1930
372755	1		Terminal Markers, Marcom	TB4 :13		2024
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB4 :13		2024
372755	1		Terminal Markers, Marcom	TB4 :14		1805
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB4 :14		1805
372755	1		Terminal Markers, Marcom	TB4 :15		1829
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB4 :15		1829

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Parts usage indication

DIN_TNP_30

Part number	Qty	LTH	Designation	DT	Function text	X-ref
372775	1		Terminal, Jumper, Used with WK 4 term.	TB4 :15		1829
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB4 :16		1814
372775	1		Terminal, Jumper, Used with WK 4 term.	TB4 :16		1814
372755	1		Terminal Markers, Marcom	TB4 :16		1814
372755	1		Terminal Markers, Marcom	TB4 :17		1814
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB4 :17		1814
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB4 :18		1815
372755	1		Terminal Markers, Marcom	TB4 :18		1815
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB4 :19		1817
372755	1		Terminal Markers, Marcom	TB4 :19		1817
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB4 :20		1818
372755	1		Terminal Markers, Marcom	TB4 :20		1818
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB4 :21		1820
372755	1		Terminal Markers, Marcom	TB4 :21		1820
372755	1		Terminal Markers, Marcom	TB4 :22		1821
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB4 :22		1821
372755	1		Terminal Markers, Marcom	TB4 :23		1823
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB4 :23		1823
372755	1		Terminal Markers, Marcom	TB4 :24		1824
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB4 :24		1824
372755	1		Terminal Markers, Marcom	TB4 :25		1826
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB4 :25		1826
372755	1		Terminal Markers, Marcom	TB4 :26		1827
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB4 :26		1827
372755	1		Terminal Markers, Marcom	TB4 :27		1829
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB4 :27		1829
372755	1		Terminal Markers, Marcom	TB4 :28		1834
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB4 :28		1834
372755	1		Terminal Markers, Marcom	TB4 :29		1833
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB4 :29		1833
372755	1		Terminal Markers, Marcom	TB4 :GND		1805
372700	1		Terminal, PE, 20-10 AWG	TB4 :GND		1805

Parts usage indication

DIN_TNP_30

Part number	Qty	LTH	Designation		DT	Function text	X-ref
371070	2		End Clamp, Used with 35 x 7.5 din rail		TB5		
372335	5		Rail, Din 35 x 7, 5 Slotted 2M		TB5		
372756	1		Terminal Markers, Unprinted,	Used with ZFK Fuse Terminals	TB5:FU3		1632
372802	1		Terminal, Fusible, (6.3x32), 400V,	ST Spring Cage	TB5:FU3		1632
371290	1		Fuse, Time Delay, 3 AMP	Glass 1/4 x 1-1/4	TB5:FU3		1632
372802	1		Terminal, Fusible, (6.3x32), 400V,	ST Spring Cage	TB5:FU5		1634
371290	1		Fuse, Time Delay, 3 AMP	Glass 1/4 x 1-1/4	TB5:FU5		1634
372756	1		Terminal Markers, Unprinted,	Used with ZFK Fuse Terminals	TB5:FU5		1634
370066	1		Bridge, 2 Pole, Used with Type ST 6	Spring Cage & Fusible Terminals	TB5:FU5		1634
372756	1		Terminal Markers, Unprinted,	Used with ZFK Fuse Terminals	TB5:FU6		1636
370066	1		Bridge, 2 Pole, Used with Type ST 6	Spring Cage & Fusible Terminals	TB5:FU6		1636
372802	1		Terminal, Fusible, (6.3x32), 400V,	ST Spring Cage	TB5:FU6		1636
371290	1		Fuse, Time Delay, 3 AMP	Glass 1/4 x 1-1/4	TB5:FU6		1636
372756	1		Terminal Markers, Unprinted,	Used with ZFK Fuse Terminals	TB5:FU7		1638
372802	1		Terminal, Fusible, (6.3x32), 400V,	ST Spring Cage	TB5:FU7		1638
371290	1		Fuse, Time Delay, 3 AMP	Glass 1/4 x 1-1/4	TB5:FU7		1638
372756	1		Terminal Markers, Unprinted,	Used with ZFK Fuse Terminals	TB5:FU8		1702
372802	1		Terminal, Fusible, (6.3x32), 400V,	ST Spring Cage	TB5:FU8		1702
371285	1		Fuse, Fast Acting, 2A	Glass 1/4 x 1-1/4	TB5:FU8		1702

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Parts usage indication

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Part number	Qty	LTH	Designation	DT	Function text	X-ref
371070	2		End Clamp, Used with 35 x 7.5 din rail	TB7		
372335	4		Rail, Din 35 x 7, 5 Slotted 2M	TB7		
372755	1		Terminal Markers, Marcom	TB7:30		1512
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB7:30		1512
371065	1		End Plate, Beige, Used with WK 4 term	TB7:30		1512
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB7:31		1512
372755	1		Terminal Markers, Marcom	TB7:31		1512
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB7:32		1525
372755	1		Terminal Markers, Marcom	TB7:32		1525
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB7:33		1529
372755	1		Terminal Markers, Marcom	TB7:33		1529
372755	1		Terminal Markers, Marcom	TB7:34		1529
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB7:34		1529
372755	1		Terminal Markers, Marcom	TB7:35		1532
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB7:35		1532
372755	1		Terminal Markers, Marcom	TB7:36		1532
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB7:36		1532
372755	1		Terminal Markers, Marcom	TB7:37		1536
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB7:37		1536
372755	1		Terminal Markers, Marcom	TB7:38		1536
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB7:38		1536
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB7:39		1638
372755	1		Terminal Markers, Marcom	TB7:39		1638
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB7:40		1702
372755	1		Terminal Markers, Marcom	TB7:40		1702
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB7:41		1702
372755	1		Terminal Markers, Marcom	TB7:41		1702
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB7:42		1900
372755	1		Terminal Markers, Marcom	TB7:42		1900
372755	1		Terminal Markers, Marcom	TB7:43		1900
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB7:43		1900
372755	1		Terminal Markers, Marcom	TB7:44		1524
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB7:44		1524
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB7:45		1904
372755	1		Terminal Markers, Marcom	TB7:45		1904

Parts usage indication

DIN_TNP_30

Part number	Qty	LTH	Designation	DT	Function text	X-ref
360735	1		Fitting, Strain Relief, 16/3 & 16/4,	C2 3M	COOLANT PUMP CABLE	1936
370215	1	80	Cable, Yellow, 16-3C Sjtow	C2 3M	COOLANT PUMP CABLE	1936
392365	2		Label Cord 0.75 x 1.5	C2 3M	COOLANT PUMP CABLE	1936
Coolant Pump	1		Cable, Pre wired to coolant pump	C3M	PRE-WIRED CABLE	1936
371039	1		Encoder, 2500 ppr, M12 5-Pin Radial Connector	E1	LENGTH ENCODER	1714
371026	1		Encoder, 8192 ppr, M12 5-Pin Radial Connector	E4	FEED RATE ENCODER	1724
371090	1		Fan Guard, Cooling Guard	FAN	HYDRAULIC EXHUAST	1628
371100	1		Fan, Cooling, 115V, 0.2/0.18A, 50/60HZ, Impedance Protected, Muffin XI Exaust	FAN	HYDRAULIC EXHUAST	1628
371085	1		Fan Cord, Cooling Rotron Cord 60 in.	FAN	HYDRAULIC EXHUAST	1628
373313	1		Switch, Actuator, Rotary Head without lever, Spring Return	LS1	HEAD UP	1831
372524	1		Switch, Limit, 1NO & 1NC, M12 Connector 1NO & 1NC, M12 Connector	LS1	HEAD UP	1831
373314	1		Lever, Roller, Thermoplastic	LS1	HEAD UP	1831
341684	1		Pump Coolant Submersible 3E-12NY 1150 60Hz 3.2A 12ft SJTOW Cable, no plug	MTR COOLANT	COOLANT	1937
395569	1		Push Button, Mushroom Head, Push Pull, Red	PBSE	SHUTTLE	1529
370529	2		Block, Contact, 1 NC	PBSE	SHUTTLE	1529
395570	1		Mounting Collar for 395569	PBSE	SHUTTLE	1529
371005	1		Enclosure, Plastic, For Push Button Station,	PBSE	SHUTTLE	1529

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Parts usage indication

DIN_TNP_30

Part number	Qty	LTH	Designation		DT	Function text	X-ref
371767	1		Lamp holder, Porcelain, 660W 250V,		LIGHT	MAX. 100W	1505
370080	1		Bulb, 60 Watt		LIGHT	MAX. 100W	1505
360735	1		Fitting, Strain Relief, 16/3 & 16/4,		C01	WORK LIGHT	1504
370145	1	288	Cable, CE 18 Awg, 4 Con,	Oil Resistant	C01	WORK LIGHT	1504
370098	1	393	Cable, 10M, 4 Wire, with	Straight Female M12 Connector	C05	IDLER DOOR	1528
360735	1		Fitting, Strain Relief, 16/3 & 16/4,		C05	IDLER DOOR	1528
372759	2		Marker Bar, Unprinted, Used on M12 Cable		C05	IDLER DOOR	1528
372759	2		Marker Bar, Unprinted, Used on M12 Cable		C06	DRIVE DOOR	1528
370096	1	300	Cable, 10M, 4 Wire, with	90 Deg Female M12 Connector	C06	DRIVE DOOR	1528
360735	1		Fitting, Strain Relief, 16/3 & 16/4,		C06	DRIVE DOOR	1528
360735	1		Fitting, Strain Relief, 16/3 & 16/4,		C53	BLADE TENSION S/S	1620
370145	1	396	Cable, CE 18 Awg, 4 Con,	Oil Resistant	C53	BLADE TENSION S/S	1620
372759	2		Marker Bar, Unprinted, Used on M12 Cable		C P1	PROXIMITY SWITCH	1707
370097	1	393	Cable, Shielded, PUR, 10M, 4 Pole, with	Straight Female M12 Connector	C P1	PROXIMITY SWITCH	1707
360735	1		Fitting, Strain Relief, 16/3 & 16/4,		C P1	PROXIMITY SWITCH	1707
372760	4		Terminal, 12 Pole 22-14 Awg, 20A, 300V		JB2	COOLANT JUNCTION BOX	1938
370040	1		Box, Junction, Coolant		JB2	COOLANT JUNCTION BOX	1938
372547	1		Switch, Safety, Hinge Acuator with	hollow shaft, M12 Connector	LS7	IDLERDOOR	1529
372547	1		Switch, Safety, Hinge Acuator with	hollow shaft, M12 Connector	LS8	DRIVEDOOR	1529
372423	1		Sensor, Proximity, 4mm Sensing,	with M12 Connector	P1	PROXIMTY SWITCH NPN	1705
391620	1		Label, Blade Tension, +/run/H/-,	Silver Overlay, NA 'H' & 'V' Machines	SS5	BLADE TENSION	1623
370586	1		Contact Block, Body & 2 NO		SS5	BLADE TENSION	1623
373351	1		Enclosure, 3 X 3 X 2, CSA, UL,	comes with adapter, BT	SS5	BLADE TENSION	1623
372636	1		Switch, Selector, 3 Position Maintained,		SS5	BLADE TENSION	1623
370510	1		Connector, 1/2 in. NPT,	Liquid Tight,	SS5	BLADE TENSION	1623

Device list

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DT	Qty	Length	Designation 1	Designation 2	Part Number	Colomn Intentionally left blank	Colomn Intentionally left blank	Page/path	Function text
LIGHT	1		Bulb, 60 Watt		370080			1505	MAX. 100W
	1		Lamp holder, Porcelain, 660W 250V,		371767				
C01	1	288.0	Cable, CE 18 Awg, 4 Con,	Oil Resistant	370145			1504	WORK LIGHT
	1		Fitting, Strain Relief, 16/3 & 16/4,		360735				
C2 3M	1	80.0	Cable, Yellow, 16-3C Sjtow		370215			1936	COOLANT PUMP CABLE
	2		Label Cord 0.75 x 1.5		392365				
	1		Fitting, Strain Relief, 16/3 & 16/4,		360735				
C3M	1	230.0	Cable, Pre wired to coolant pump		Coolant Pump			1936	PRE-WIRED CABLE
C04	1	228.0	Cable, CE, 18 awg, 5 conductor		370146			1528	SHUTTLE EMERGENCY STOP
	1		Fitting, Strain Relief, 16/3 & 16/4,		360735				
C05	1	393.0	Cable, 10M, 4 Wire, with	Straight Female M12 Connector	370098			1528	IDLER DOOR
	2		Marker Bar, Unprinted, Used on M12 Cable		372759				
	1		Fitting, Strain Relief, 16/3 & 16/4,		360735				
C06	1	300.0	Cable, 10M, 4 Wire, with	90 Deg Female M12 Connector	370096			1528	DRIVE DOOR
	2		Marker Bar, Unprinted, Used on M12 Cable		372759				
	1		Fitting, Strain Relief, 16/3 & 16/4,		360735				
C11	1	81.0	Cable, Yellow, 16-3C Sjtow		370215			1919	SHUTTLE REVERSE
	1		Capacitor, 0.33Uf, 250VDC, 10%		370224				
	1		Resistor, 150 Ohm, 2W, Mf 5%		372415				
	1		Heat Shrink, Black, 3/32		371455				
	1		Connector, Hirschmann		370500				
	1		Fitting, Strain Relief, 16/3 & 16/4,		360735				
C12	1	74.0	Cable, Yellow, 16-3C Sjtow		370215			1920	SHUTTLE FORWARD
	1		Capacitor, 0.33Uf, 250VDC, 10%		370224				
	1		Resistor, 150 Ohm, 2W, Mf 5%		372415				
	1		Heat Shrink, Black, 3/32		371455				
	1		Connector, Hirschmann		370500				
	1		Fitting, Strain Relief, 16/3 & 16/4,		360735				
	1		Connector, Hirschmann		370500				
	1		Fitting, Strain Relief, 16/3 & 16/4,		360735				
C13	1	78.0	Cable, Yellow, 16-3C Sjtow		370215			1916	SHUTTLE FAST
	1		Capacitor, 0.33Uf, 250VDC, 10%		370224				
	1		Resistor, 150 Ohm, 2W, Mf 5%		372415				
	1		Heat Shrink, Black, 3/32		371455				
	1		Connector, Hirschmann		370500				
	1		Fitting, Strain Relief, 16/3 & 16/4,		360735				
C21	1	83.0	Cable, Yellow, 16-3C Sjtow		370215			1926	SHUTTLE VISE CLOSE
	1		Capacitor, 0.33Uf, 250VDC, 10%		370224				
	1		Resistor, 150 Ohm, 2W, Mf 5%		372415				
	1		Heat Shrink, Black, 3/32		371455				
	1		Connector, Hirschmann		370500				
	1		Fitting, Strain Relief, 16/3 & 16/4,		360735				
C22	1	76.0	Cable, Yellow, 16-3C Sjtow		370215			1927	SHUTTLE VISE OPEN
	1		Capacitor, 0.33Uf, 250VDC, 10%		370224				
	1		Resistor, 150 Ohm, 2W, Mf 5%		372415				
	1		Heat Shrink, Black, 3/32		371455				
	1		Connector, Hirschmann		370500				
	1		Fitting, Strain Relief, 16/3 & 16/4,		360735				

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DT	Qty	Length	Designation 1	Designation 2	Part Number	Colomn Intentionally left blank	Colomn Intentionally left blank	Page/path	Function text
C31	1	72.0	Cable, Yellow, 16-3C Sjtow		370215			1914	FRONT VISE CLOSE
	1		Capacitor, 0.33Uf, 250VDC, 10%		370224				
	1		Resistor, 150 Ohm, 2W, Mf 5%		372415				
	1		Heat Shrink, Black, 3/32		371455				
	1		Connector, Hirschmann		370500				
	1		Fitting, Strain Relief, 16/3 & 16/4,		360735				
C32	1	64.0	Cable, Yellow, 16-3C Sjtow		370215			1915	FRONT VISE OPEN
	1		Capacitor, 0.33Uf, 250VDC, 10%		370224				
	1		Resistor, 150 Ohm, 2W, Mf 5%		372415				
	1		Heat Shrink, Black, 3/32		371455				
	1		Connector, Hirschmann		370500				
	1		Fitting, Strain Relief, 16/3 & 16/4,		360735				
C41	1	66.0	Cable, Yellow, 16-3C Sjtow		370215			1921	HEAD UP
	1		Capacitor, 0.33Uf, 250VDC, 10%		370224				
	1		Resistor, 150 Ohm, 2W, Mf 5%		372415				
	1		Heat Shrink, Black, 3/32		371455				
	1		Connector, Hirschmann		370500				
	1		Fitting, Strain Relief, 16/3 & 16/4,		360735				
C42	1	64.0	Cable, Yellow, 16-3C Sjtow		370215			1922	HEAD DOWN
	1		Capacitor, 0.33Uf, 250VDC, 10%		370224				
	1		Resistor, 150 Ohm, 2W, Mf 5%		372415				
	1		Heat Shrink, Black, 3/32		371455				
	1		Connector, Hirschmann		370500				
	1		Fitting, Strain Relief, 16/3 & 16/4,		360735				
C42-1	1	180.0	Cable, Yellow, 16-3C Sjtow		370215			1935	#1 HEAD DOWN DRIVE SIDE
	1		Capacitor, 0.33Uf, 250VDC, 10%		370224				
	1		Resistor, 150 Ohm, 2W, Mf 5%		372415				
	1		Heat Shrink, Black, 3/32		371455				
	1		Connector, Hirschmann		370500				
	1		Fitting, Strain Relief, 16/3 & 16/4,		360735				
C42-2	1	275.0	Cable, Yellow, 16-3C Sjtow		370215			1933	#2 HEAD DOWN IDLER SIDE
	1		Capacitor, 0.33Uf, 250VDC, 10%		370224				
	1		Resistor, 150 Ohm, 2W, Mf 5%		372415				
	1		Heat Shrink, Black, 3/32		371455				
	1		Connector, Hirschmann		370500				
	1		Fitting, Strain Relief, 16/3 & 16/4,		360735				
C43	1	310.0	Cable, 10M, 4 Wire, with	Straight Female M12 Connector	370098			1831	HEAD UP LS
	2		Marker Bar, Unprinted, Used on M12 Cable		372759				
	1		Fitting, Strain Relief, 16/3 & 16/4,		360735				
C48	1	120.0	Cable, Yellow, 16-3C Sjtow		370215			1903	BLADE BRUSH
	1		Capacitor, 0.33Uf, 250VDC, 10%		370224				
	1		Resistor, 150 Ohm, 2W, Mf 5%		372415				
	1		Heat Shrink, Black, 3/32		371455				
	1		Connector, Hirschmann		370500				
	1		Label Cord 0.75 x 1.5		392365				
	1		Fitting, Strain Relief, 16/3 & 16/4,		360735				

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DT	Qty	Length	Designation 1	Designation 2	Part Number	Colomn Intentionally left blank	Colomn Intentionally left blank	Page/path	Function text
C51	1	72.0	Cable, Yellow, 16-3C Sjtow		370215			1621	BLADE TENSION +
	1		Capacitor, 0.33Uf, 250VDC, 10%		370224				
	1		Resistor, 150 Ohm, 2W, Mf 5%		372415				
	1		Heat Shrink, Black, 3/32		371455				
	1		Connector, Hirschmann		370500				
	1		Fitting, Strain Relief, 16/3 & 16/4,		360735				
C52	1	73.0	Cable, Yellow, 16-3C Sjtow		370215			1624	BLADE TENSION -
	1		Capacitor, 0.33Uf, 250VDC, 10%		370224				
	1		Resistor, 150 Ohm, 2W, Mf 5%		372415				
	1		Heat Shrink, Black, 3/32		371455				
	1		Connector, Hirschmann		370500				
	1		Fitting, Strain Relief, 16/3 & 16/4,		360735				
C53	1	396.0	Cable, CE 18 Awg, 4 Con,	Oil Resistant	370145			1620	BLADE TENSION S/S
	1		Fitting, Strain Relief, 16/3 & 16/4,		360735				
C E1	1	360.0	Cable, Shielded, PUR, 10M, 4 Pole, with	Straight Female M12 Connector	370097			1713	LENGTH ENCODER
	2		Marker Bar, Unprinted, Used on M12 Cable		372759				
	1		Fitting, Strain Relief, 16/3 & 16/4,		360735				
C E4	1	360.0	Cable, Shielded, PUR, 10M, 4 Pole, with	Straight Female M12 Connector	370097			1723	FEED RATE ENCODER
	2		Marker Bar, Unprinted, Used on M12 Cable		372759				
	1		Fitting, Strain Relief, 16/3 & 16/4,		360735				
C FAN								1627	FAN CABLE
C HMI	1		Conduit, Control, HMI to MP	Multi Conductor, 16AWG, 44 Wire,	H18-CDT CT-NA-00-1			1504	CABLES HMI TO MP
C ICT	1	65.0	Cable, Shielded, PUR, 10M, 4 Pole, with	Straight Female M12 Connector	370097			1907	INVERTER CONTROL
C P1	1	393.0	Cable, Shielded, PUR, 10M, 4 Pole, with	Straight Female M12 Connector	370097			1707	PROXIMITY SWITCH
	2		Marker Bar, Unprinted, Used on M12 Cable		372759				
	1		Fitting, Strain Relief, 16/3 & 16/4,		360735				
C PLC	1		Cable, Communicaton, 5M, E-Series,		370152			1801	PLC - E200 COMM CABLE
C POT	1	200.0	Cable, 22(7) 2 Pr. Ind. Foil Shield		370105			2007	POTENTIOMETER
	1		Fitting, Strain Relief, 16/3 & 16/4,		360735				
CDT CT	1	108.0	Conduit, Flexible Non Metallic Tubing,	1 1/4 in.	370295			2030	CONDUIT HMI TO MP
	2		Connector, Conduit, 1 1/4"	Plastic, Straight, LT	370420				
	1		Conduit, Control, HMI to MP	Multi Conductor, 16AWG, 44 Wire,	H18-CDT CT-NA-00-1				
	1		Cable, Communicaton		C PLC				
	1		Cable, Potentiometer		C POT				
	1		Wire, 12 Awg / 19, T90, Black		373125				
	1		Wire, 12 Awg / 19, T90, White		373215				
	1		Wire, 12 Awg / 19, T90, Green-Yellow		373160				
	1		Wire, 16 Awg / 26, TEW, Red		373205				
	1		Wire, 16 Awg / 26, TEW, Dark Blue		373140				
CR1	1		Relay, Safety, 24VDC	3N/O & 1N/C O/P	371569			1522	SAFETY RELAY
CR3	1		Relay, Dpdt, 5 Amp Switching,	Plug In, ac 120V	372390			1923	HEAD DOWN
	1		Relay Base, Surface Mount,	Used with DPDT relay	372385				
CR6	1		Relay, Dpdt, 5 Amp Switching,	Plug In, ac 120V	372390			1928	COOLANT RELAY
	1		Relay Base, Surface Mount,	Used with DPDT relay	372385				
E1	1		Encoder, 2500 ppr,	M12 5-Pin Radial Connector	371039			1714	LENGTH ENCODER
E4	1		Encoder, 8192 ppr,	M12 5-Pin Radial Connector	371026			1724	FEED RATE ENCODER
E1022	1		Interface, E-Series, E1022, 24VDC,		371481			1803	INTERFACE
FAN	1		Fan Cord, Cooling Rotron Cord 60 in.		371085			1628	HYDRAULIC EXHUAST
	1		Fan Guard, Cooling Guard		371090				
	1		Fan, Cooling, 115V, 0.2/0.18A, 50/60HZ,	Impedance Protected, Muffin Xl Exaust	371100				

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DT	Qty	Length	Designation 1	Designation 2	Part Number	Colomn Intentionally left blank	Colomn Intentionally left blank	Page/path	Function text
GND.1								1910	
HMI								1801	HMI
JB2	1		Box, Junction, Coolant		370040			1938	COOLANT JUNCTION BOX
	4		Terminal, 12 Pole 22-14 Awg, 20A, 300V		372760				
LS1	1		Switch, Limit, 1NO & 1NC, M12 Connector	1NO & 1NC, M12 Connector	372524			1831	HEAD UP
	1		Switch, Actuator, Rotary Head	without lever, Spring Return	373313				
	1		Lever, Roller, Thermoplastic		373314				
LS7	1		Switch, Safety, Hinge Acuator with	hollow shaft, M12 Connector	372547			1529	IDLERDOOR
LS8	1		Switch, Safety, Hinge Acuator with	hollow shaft, M12 Connector	372547			1529	DRIVEDOOR
MS 1M								1613	HYDRAULIC M. STARTER
MS 2M								1917	BLADE MOTORCONTACTOR
MTR COOLANT	1		Pump Coolant Submersible 3E-12NY 115V	60Hz 3.2A 12ft SJTOW Cable, no plug	341684			1937	COOLANT
OL1									HYDRAULIC M. OVERLOAD
OL2									VFDOVERLOAD
P1	1		Sensor, Proximity, 4mm Sensing,	with M12 Connector	372423			1705	PROXIMTY SWITCH NPN
PB1	1		Push Button, Mushroom Head,	Push Pull, Red	372326			1529	E-STOP
	1		Block, Contact, 1 NC		370529				
	1		Contact Block, Body & 1 NC		370571				
PB2	1		Push Button, Illuminated Green, Flush		372306			1512	HYDRAULIC START
	1		Block, Contact, 1 NO		370532				
	1		Contact Block, Body Illuminated & 1 NO,		370591				
	1		Bulb, LED, 120VAC/DC, White	50/60Hz, 20mA	370070				
PB3	1		Push Button, Illuminated White, Flush		372311			1827	CYCLE START
	1		Contact Block, Body Illuminated & 1 NO,		370591				
	1		Bulb, LED, 120VAC/DC, White	50/60Hz, 20mA	370070				
PB4	1		Push Button, Flush, Black		372291			1829	BLADE STOP
	1		Contact Block, Body & 1 NC		370571				
PB5	1		Push Button, Illuminated Green, Flush		372306			1826	BLADE START
	1		Contact Block, Body Illuminated & 1 NO,		370591				
	1		Bulb, LED, 120VAC/DC, White	50/60Hz, 20mA	370070				
PBSE	1		Push Button, Mushroom Head,	Push Pull, Red	395569			1529	SHUTTLE
	1		Mounting Collar for 395569		395570				
	2		Block, Contact, 1 NC		370529				
	1		Enclosure, Plastic,	For Push Button Station,	371005				
PLC I/P	1		AC BASE UNIT, 24DC IN/24 RLY OUT		372239			1723	PLC INPUTS
PLC O/P								1935	PLC OUTPUTS
POT	1		Potentiometer, 1K, Short,		372195			2004	BLADE SPEED POT
PWS 3	1		Power Supply, I/P=100-240VAC, 50/60Hz	O/P=24VDC,0.6A,15W	815297			1507	SAFETY CIRCUIT
SOL 11								1919	SHUTTLE REVERSE
SOL 12								1920	SHUTTLE FORWARD
SOL 13								1916	SHUTTLE FAST
SOL 21								1926	SHUTTLE VISE CLOSE
SOL 22								1927	SHUTTLE VISE OPEN
SOL 31								1914	FRONT VISE CLOSE
SOL 32								1915	FRONT VISE OPEN
SOL 41								1921	HEAD UP
SOL 42								1922	HEAD DOWN
SOL 42-1								1935	HEAD DOWN DRIVE
SOL 42-2								1933	HEAD DOWN IDLER
SOL 48								1903	FRONT VISE OPEN

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DT	Qty	Length	Designation 1	Designation 2	Part Number	Colomn Intentionally left blank	Colomn Intentionally left blank	Page/path	Function text
SOL 51								1622	BLADE TENSION +
SOL 52								1625	BLADE TENSION -
SS1	1		Switch, Selector, 3 Position Maintained,		372636			1815	COOLANT
	1		Contact Block, Body & 2 NO		370586				
SS2	1		Switch, Selector, 3 Position, Spring Ret	Left to Center & Maintained to Right	372652			1607	SHUTTLE VISE
	1		Contact Block, Body & 2 NO		370586				
	1		Block, Contact, 1 NC		370529				
SS3	1		Switch, Selector, 3 Position, Spring Ret	Left to Center & Maintained to Right	372652			1607	FRONT VISE
	1		Block, Contact, 1 NC		370529				
	1		Contact Block, Body & 2 NO		370586				
SS4	1		Switch, Selector, 3 Position Maintained,		372636			1824	HEAD
	1		Contact Block, Body & 2 NO		370586				
	1		Block, Contact, 1 NC		370529				
SS5	1		Enclosure, 3 X 3 X 2, CSA, UL,	comes with adapter, BT	373351			1623	BLADE TENSION
	1		Label, Blade Tension, +/run/H/-,	Silver Overlay, NA 'H' & 'V' Machines	391620				
	1		Switch, Selector, 3 Position Maintained,		372636				
	1		Contact Block, Body & 2 NO		370586				
	1		Connector, 1/2 in. NPT,	Liquid Tight,	370510				
SS7	1		Switch, Selector, 2 Position Maintained,		372626			1505	WORK LIGHT
	1		Contact Block, Body & 1 NO		370576				
SSK1	1		Switch, Selector, 2 Position Key		372621			1638	BLADE CHANGE
	2		Block, Contact, 1 NC		370529				
	1		Contact Block, Body & 2 NO		370586				
	1		Block, Contact, 1 NO		370532				
	1		Label, Overlay, Blade Change Mode,	On, Off	391567				
TB1	11		Rail, Din 35 x 7, 5 Slotted 2M		372335				
	2		End Clamp, Used with 35 x 7.5 din rail		371070				
TB2	5		Rail, Din 35 x 7, 5 Slotted 2M		372335				
	1		End Clamp, Used with 35 x 7.5 din rail		371070				
TB3	11		Rail, Din 35 x 7, 5 Slotted 2M		372335				
	2		End Clamp, Used with 35 x 7.5 din rail		371070				
TB4	12		Rail, Din 35 x 7, 5 Slotted 2M		372335				
	1		End Clamp, Used with 35 x 7.5 din rail		371070				
TB5	5		Rail, Din 35 x 7, 5 Slotted 2M		372335				
	2		End Clamp, Used with 35 x 7.5 din rail		371070				
TB7	4		Rail, Din 35 x 7, 5 Slotted 2M		372335				
	2		End Clamp, Used with 35 x 7.5 din rail		371070				
VFD								1911	INVERTER

from		Length x mm²(AWG) color Cable	Wire	Wire des./definition	Parts From, Wire, To	to		More info Jumper	Conductor	Page	Conductor End	LENGTH (Inches)
TB3 :10A				,		TB3 :10		Y	N	1529		
TB7:30	HMI		11	16 AWG, BU		PB2:13	HMI	N	N	1512	T / *	
PB2:14	HMI		12	16 AWG, BU		TB7:31	HMI	N	N	1512;	* / T	
TB7:32	HMI		14	16 AWG, BU		SSK1:3	HMI	N	N	1525	T/*	
SSK1:4	HMI		15	16 AWG, BU		TB7:44	HMI	N	N	1638;	*/T	
TB7:33	HMI		16	16 AWG, RD		PB1:1	HMI	N	N	1529	*/T	
PB1:2	HMI		17	16 AWG, RD		TB7:34	HMI	N	N	1529;	*/T	
TB7:35	HMI		18	16 AWG, BU		PB1:11	HMI	N	N	1532	T/*	
PB1:12	HMI		19	16 AWG, BU		TB7:36	HMI	N	N	1529;	*/T	
TB7:38	HMI		20	16 AWG, BU		SSK1:13	HMI	N	N	1536	T/*	
SSK1:14	HMI		21	16 AWG, BU		TB7:37	HMI	N	N	1638;	* / T	
SS2:2	HMI		26	16 AWG, RD		SS3:1	HMI	N	N	1607;	* / *	
SS3:2	HMI		27	16 AWG, RD		SS4:1	HMI	N	N	1607;	* / *	
PB2:4	HMI		30	16 AWG, RD		PB2:X1	HMI	N	N	1512;	* / *	
PB3:X2	HMI		32	16 AWG, WH		PB2:X2	HMI	N	N	1827;	*/*	
SSK1:2	HMI		45	16 AWG, RD		TB7:39	HMI	N	N	1638;	* / T	
TB7:40	HMI		47	16 AWG,		SSK1:11	HMI	N	N	1702	T/*	
SSK1:12	HMI		48	16 AWG, RD		TB7:41	HMI	N	N	1638;	*/T	
SS2:3	HMI		57	16 AWG, BU		SS1:13	HMI	N	N	1607;	*/*	
SS2:13	HMI		60	16 AWG, BU		SS3:3	HMI	N	N	1607;	*/*	2
SS4:3	HMI		63	16 AWG, BU		SS3:13	HMI	N	N	1824;	*/*	
SS4:13	HMI		66	16 AWG, BU		PB5:3	HMI	N	N	1824;	*/*	
PB5:3	HMI		68	16 AWG, BU		PB3:3	HMI	N	N	1826;	*/*	
PB4:1	HMI		70	16 AWG, BU		PB3:3	HMI	N	N	1829	*/*	
TB7:42	HMI		74	16 AWG, RD		SSK1:23	HMI	N	N	1900	T/*	
SSK1:24	HMI		75	16 AWG, RD		TB7:43	HMI	N	N	1638;	T/*	
PB5:X2	HMI		76	16 AWG, WH		TB7:45	HMI	N	N	1826;	T/*	
PB3:X2	HMI		78	16 AWG, WH		PB5:X2	HMI	N	N	1827;	*/*	
SS4:3	HMI		JMP	16 AWG, BU		SS4:13	HMI	N	N	1824;	*/*	
SS2:3	HMI		JMP	16 AWG, BU		SS2:13	HMI	N	N	1607;	*/*	
SS1:3	HMI		JMP	16 AWG, BU		SS1:13	HMI	N	N	1815	*/*	
SS3:3	HMI		JMP	16 AWG, BU		SS3:13	HMI	N	N	1607;	*/*	
TB4 :1	HMI		4	16 AWG, BK		SS7 :3	HMI	N	N	1505	T/*	
TB4 :3	HMI		25	16 AWG, RD		SS2:1	HMI	N	N	1607	T / *	
TB4 :5	HMI		29	16 AWG, RD		PB2:3	HMI	N	N	1607	T / *	

from		Length x mm²(AWG) color Cable	Wire	Wire des./definition	Parts from, wire, to	to		More info Jumper	Conductor	Page	Conductor End	LENGTH (Inches)
TB4 :6	HMI		31	16 AWG, RD		PB2:X1	HMI	N	N	1609	T / *	
TB4 :7	HMI		44	16 AWG, RD		SSK1:1	HMI	N	N	1638		
TB4 :GND	HMI		54	16 AWG, YEGN		E1022:_0	HMI	N	N	1805	T / *	
TB4 :14	HMI		55	16 AWG, BU		E1022:+	HMI	N	N	1805	T /	
TB4 :15	HMI		72	16 AWG, BU		PB4:1	HMI	N	N	1829	T / *	
TB4 :8	HMI		77	16 AWG, RD		PB5:X1	HMI	N	N	1905	T/*	
TB4 :16	HMI		110	16 AWG, BU		E1022:-	HMI	N	N	1814	T / *	
TB4 :12	HMI		310	,		PB3:X1	HMI	N	N	1930		
TB4 :GND	HMI		G1H	16 AWG, YEGN		HMI:LID	HMI	N	N	1805	T	
TB2 :8				, BLU		TB2 :7	MP	Y	N	1935	T	
TB3 :13A				,		TB3 :13	MP	Y	N	1532		
TB1 :3	MP			,		TB1 :2	MP	Y	N	1733		
TB1 :3	MP			,		TB1 :4	MP	Y	N	1733		
TB2 :7	MP			,		TB2 :6	MP	Y	N	1927		
TB2 :2	MP			,		TB2 :1	MP	Y	N	1628		
TB2 :6	MP			,		TB2 :5	MP	Y	N	1922		
TB2 :5	MP			,		TB2 :4	MP	Y	N	1920		
TB2 :4	MP			,		TB2 :3	MP	Y	N	1916		
TB3 :4	MP			,		TB3 :5	MP	Y	N	1622		
TB3 :FU1:2	MP		1	16 AWG, BK		TB3 :1	MP	N	Y	1503	T/T	20
TB3 :1	MP		2	16 AWG, BK		CR1:13	MP	N	N	1505	* / T	25
CR1:S12	MP		9	16 AWG, BU		MS 1M:21	MP	N	N	1522;	T/*	32
MS 1M:22	MP		10	16 AWG, BU		MS 2M:21	MP	N	N	1613;	* / *	10
CR1:A1	MP		13	16 AWG, BU		TB3 :FU2:2	MP	N	N	1522;	T/T	13
TB3 :6	MP		22	16 AWG, RD		OL1:13	MP	N	N	1613	T / *	29?
CR1:14	MP		23	16 AWG, RD		TB3 :3	MP	N	N	1522;	T / T	??
MS 1M:13	MP		24	16 AWG, RD		TB3 :3	MP	N	N	1613;	T / *	29
TB3 :4	MP		33	16 AWG, RD		MS 1M:14	MP	N	N	1622	T/*	26
OL2:14	MP		35	16 AWG, RD		MS 1M:A1	MP	N	N	1613	T / *	15?
MS 2M:A2	MP		36	16 AWG, WH		MS 1M:A2	MP	N	N	1917;	* / *	4
TB2 :2	MP		37	16 AWG, WH		MS 1M:A2	MP	N	N	1628	*T	29
TB3 :5	MP		40	16 AWG, RD		CR6:3	MP	N	N	1632	T/T	
TB2 :GND3	MP		50	16 AWG, YEGN		PLC I/P:GND	MP	N	N	1704	T / F	14
TB2 :3	MP		51	16 AWG, WH		TB2 :2	MP	Y	N	1914	T/RF	11
TB2 :3	MP		51	16 AWG, WH		PLC I/P:N	MP	N	N	1914	T/RF	11

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H28A & H32A SV Electrical Doc.
H28ASV-NA-7-00-1B
Schematic with NO Options

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Wire list: (- 51)

Unfiltered Wire List

Modification date 02/13/2015
Modified by jhayre

Check.
Form DIN_VRL_70_5_Inch

from		Length x mm²(AWG) color Cable	Wire	Wire des./definition	Parts From, Wire, To	to		More info Jumper	Conductor	Page	Conductor End	LENGTH (Inches)
TB1 :1	MP		52	16 AWG, BU		PLC I/P:24V	MP	N	N	1728	T/RF	10
TB1 :2	MP		53	16 AWG, BU		PLC I/P:0V	MP	N	N	1731	T/RF	11
CR6:1(-)	MP		81	16 AWG, WH		TB2 :7	MP	N	N	1928;	T/T	20
OL1:14	MP		111	16 AWG, RD		OL2:13	MP	N	N	1613	*/*	
CR6:1(-)	MP		210	16 AWG, WH		CR3:1(-)	MP	N	N	1928;	T/T	
CR1:S11	MP		JMP	18 AWG, BU		CR1:S14	MP	N	N	1522;		
PLC I/P:24V	MP		JMP	18 AWG, BU		PLC I/P:S/S	MP	N	N	1723;	RF/RF	JMP
CR3:3	MP		JMP	16 AWG, RD		CR3:6	MP	N	N	1923;	T/T	
CR6:3	MP		JMP	16 AWG, RD		CR3:3	MP	N	N	1928;	T/T	
PWS 3:N	MP: TB5 I/P 120VAC; O/P 24VDC; 0.6A		6	16 AWG, WH		TB2 :1	MP	N	N	1507	T/*	7
PLC O/P:Y0	MP		34	16 AWG, RD		TB3 :6	MP	N	N	1935;	F/ T	19
PLC O/P:COM5	MP		46	16 AWG, RD		TB5:FU7:2	MP	N	N	1935;	T /F	31
TB5:FU8:2	MP		49	16 AWG, RD		PLC I/P:L	MP	N	N	1702	T / F	19
PLC O/P:Y13	MP		80	16 AWG, RD		MS 2M:A1	MP	N	N	1935;	F/*	44
PLC O/P:Y17	MP		112	16 AWG, RD		CR3:8(+)	MP	N	N	1935;	RF	
TB3 :1	MP		3	18 AWG, BK		PWS 3:L	MP: TB5 I/P 120VAC; O/P 24VDC; 0.6A	N	N	1505	T/T	20
TB3 :FU2:1	MP		7	16 AWG, BU		PWS 3:+V DC	MP: TB5 I/P 120VAC; O/P 24VDC; 0.6A	N	N	1512	T/*	11
CR1:A2	MP		8	16 AWG, BU		PWS 3:-V DC	MP: TB5 I/P 120VAC; O/P 24VDC; 0.6A	N	N	1522;	T/T	8
SS5:13	HD KIT		38	16 AWG, RD		SS5:3	HD KIT	N	N	1623	* / *	JMP
SS7 :4	HMI		5	16 AWG,		TB4 :2	HMI	N	N	1505	* / T	
SS4:2	HMI		28	16 AWG, RD		TB4 :4	HMI	N	N	1824;	*/T	
SS1:4	HMI		56	16 AWG, BU		TB4 :17	HMI	N	N	1815	* / T	
SS1:14	HMI		58	16 AWG, BU		TB4 :18	HMI	N	N	1815	* / T	
SS2:4	HMI		59	16 AWG, BU		TB4 :19	HMI	N	N	1607;	* / T	
SS2:14	HMI		61	16 AWG, BU		TB4 :20	HMI	N	N	1607;	* / T	
SS3:4	HMI		62	16 AWG, BU		TB4 :21	HMI	N	N	1607;	* / T	
SS3:14	HMI		64	16 AWG, BU		TB4 :22	HMI	N	N	1607;	* / T	
SS4:4	HMI		65	16 AWG, BU		TB4 :23	HMI	N	N	1824;	* / T	
SS4:14	HMI		67	16 AWG, BU		TB4 :24	HMI	N	N	1824;	* / T	
PB5:4	HMI		69	16 AWG, BU		TB4 :25	HMI	N	N	1826;	T / *	
PB3:4	HMI		71	16 AWG, BU		TB4 :26	HMI	N	N	1827;	T / *	
PB4:2	HMI		73	16 AWG, BU		TB4 :27	HMI	N	N	1829	T / *	
TB4 :15	HMI			,		TB4 :16	HMI	Y	N	1829		
TB4 :9	HMI			,		TB4 :10	HMI	Y	N	1928		
TB4 :4	HMI			,		TB4 :5	HMI	Y	N	1607		

from		Length x mm²(AWG) color Cable	Wire	Wire des./definition	Parts from, wire, to	to		More info Jumper	Conductor	Page	Conductor End	LENGTH (Inches)
TB5:FU7:1	MP			,		TB5:FU6:1	MP	N	Y	1638		
TB3 :5	MP		39	16 AWG, RD		TB5:FU3:1	MP	N	N	1632	T/*	20
TB2 :GND4	MP		GSD	16 AWG, YEGN		VFD:SD	MP	N	N	1910	T/S	43
TB5:FU6:1	MP			,		TB5:FU5:1	MP	N	Y	1636		
PLC O/P:COM1	MP		41	16 AWG, RD		TB5:FU3:2	MP	N	N	1935;	T /F	26
PLC O/P:COM3	MP		42	16 AWG, RD		TB5:FU5:2	MP	N	N	1935;	T/F	27
PLC O/P:COM4	MP		43	16 AWG, RD		TB5:FU6:2	MP	N	N	1935;	T /F	28
TB3 :2	MP	C01		, 1 BLK		LIGHT:_0	HD KIT 100W	N	N	1505	T/T	24
TB2 :1	MP	C01		, 2 BLK		LIGHT:_1	HD KIT 100W	N	N	1505	T	17
TB2 :8		C2 3M		, BLU		JB2:_1	HD KIT	N	N	1935	T	18
CR6:4	MP	C2 3M		, BLK		JB2:_0	HD KIT	N	N	1928;	T	15
JB2:_0	HD KIT	C3M		, BLU		MTR COOLANT:2	EXT	N	N	1937	T	
JB2:_1	HD KIT	C3M		, BRN		MTR COOLANT:1	EXT	N	N	1938;	T	
TB3 :10A		C04		, 3 BLK		PBSE:2	EXT	N	N	1529;	T / *	26
TB3 :13A		C04		, 4 BLK		PBSE:12	EXT	N	N	1529;	T / *	26
TB3 :12	MP	C04		, 2 BLK		PBSE:11	EXT	N	N	1532	T/*	26
TB3 :9	MP	C04		, 1 BLK		PBSE:1	EXT	N	N	1529	/T	26
CR1:S11	MP	C05		, BRN		LS7:1	HD KIT	N	N	1529;	*	15
TB3 :11	MP	C05		, BLK		LS7:4	HD KIT	N	N	1529;	*	7
TB3 :8	MP	C05		, BLU		LS7:3	HD KIT	N	N	1529;	*	7
CR1:S10	MP	C05		, WHT		LS7:2	HD KIT	N	N	1529;	*	11
TB3 :12	MP	C06		, BLK		LS8:4	HD KIT	N	N	1529;	*	4
TB3 :11	MP	C06		, WHT		LS8:2	HD KIT	N	N	1532	*	4
TB3 :8	MP	C06		, BRN		LS8:1	HD KIT	N	N	1529	*	4
TB3 :9	MP	C06		, BLU		LS8:3	HD KIT	N	N	1529;	*	4
TB2 :5	MP	C11		, WHT		SOL 11:_1	EXT	N	N	1920	T	16
PLC O/P:Y14	MP	C11		, BLK		SOL 11:_0	EXT	N	N	1935;	RF	8
TB2 :5	MP	C12		, WHT		SOL 12:_1	EXT	N	N	1920	T	16
PLC O/P:Y15	MP	C12		, BLK		SOL 12:_0	EXT	N	N	1935;	RF	7
TB2 :4	MP	C13		, WHT		SOL 13:_1	EXT	N	N	1916	T	15
PLC O/P:Y12	MP	C13		, BLK		SOL 13:_0	EXT	N	N	1935;	RF	8
TB2 :7	MP	C21		, WHT		SOL 21:_1	EXT	N	N	1927	T	14
PLC O/P:Y20	MP	C21		, BLK		SOL 21:_0	EXT	N	N	1935;	RF	7
TB2 :7	MP	C22		, WHT		SOL 22:_1	EXT	N	N	1927	T	13
PLC O/P:Y21	MP	C22		, BLK		SOL 22:_0	EXT	N	N	1935;	RF	6

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H28ASV-NA-7-00-1B
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Wire list: (52 -)

Unfiltered Wire List

Modification date 02/13/2015
Modified by jhayre

Check.
Form DIN_VRL_70_5_Inch

from		Length x mm²(AWG) color Cable	Wire	Wire des./definition	Parts From, Wire, To	to		More info Jumper	Conductor	Page	Conductor End	LENGTH (Inches)
TB2 :3	MP	C31		, WHT		SOL 31:_1	EXT	N	N	1914	T	14
PLC O/P:Y10	MP	C31		, BLK		SOL 31:_0	EXT	N	N	1935;	RF	9
TB2 :3	MP	C32		, WHT		SOL 32:_1	EXT	N	N	1915	T	12
PLC O/P:Y11	MP	C32		, BLK		SOL 32:_0	EXT	N	N	1935;	RF	9
TB2 :6	MP	C41		, WHT		SOL 41:_1	EXT	N	N	1922	T	12
PLC O/P:Y16	MP	C41		, BLK		SOL 41:_0	EXT	N	N	1935;	RF	10
TB2 :6	MP	C42		, WHT		SOL 42:_1	EXT	N	N	1922	T	12
PLC O/P:Y17	MP	C42		, BLK		SOL 42:_0	EXT	N	N	1935;	RF	12
TB2 :8		C42-1		, WHT		SOL 42-1:_1	EXT	N	N	1935	T	
CR3:4	MP	C42-1		, BLK		SOL 42-1:_0	EXT	N	N	1923;	T	
TB2 :8		C42-2		, WHT		SOL 42-2:_1	EXT	N	N	1933	T	
CR3:5	MP	C42-2		, BLK		SOL 42-2:_0	EXT	N	N	1923;	T	
TB1 :4	MP	C43		, 3 BLU		LS1:3	EXT	N	N	1812	T	5
PLC I/P:X22	MP	C43		, 4 BLK		LS1:4	EXT	N	N	1831	*	8
TB2 :3	MP	C48		, WHT		SOL 48:_1	EXT	N	N	1914	t	
PLC O/P:Y3	MP	C48		, BLK		SOL 48:_0	EXT	N	N	1935;	RF	
TB2 :2	MP	C51		, WHT		SOL 51:_1	EXT	N	N	1628	T	10
TB3 :15	MP	C51		, BLK		SOL 51:_0	EXT	N	N	1622	T	18
TB2 :2	MP	C52		, WHT		SOL 52:_1	EXT	N	N	1628	T	8
TB3 :16	MP	C52		, BLK		SOL 52:_0	EXT	N	N	1625	T	16
TB3 :15	MP	C53		, 1 BLK		SS5:4	HD KIT	N	N	1623	T	16
TB3 :16	MP	C53		, 2 BLK		SS5:14	HD KIT	N	N	1623	T	16
TB3 :4	MP	C53		, 3 BLK		SS5:3	HD KIT	N	N	1622	T	16
TB1 :2	MP	C E1	SH	, SH		C E1:_0	EXC	N	N	1731	S	5
TB1 :2	MP	C E1		, 2 WHT		E1:2(COM)	EXT	N	N	1714;	S	5
PLC I/P:X0	MP	C E1		, 4 BLK		E1:4(B)	EXT	N	N	1714;	S	5
TB1 :1	MP	C E1		, 1 BRN		E1:1(+VS)	EXT	N	N	1714;	S	5
PLC I/P:X1	MP	C E1		, 3 BLU		E1:3(A)	EXT	N	N	1714;	S	5
TB1 :3	MP	C E4		, SH		C E4:_0	EXC	N	N	1723	S	5
TB1 :3	MP	C E4		, 2 WHT		E4:2(COM)	EXT	N	N	1724;	S	5
TB1 :1	MP	C E4		, 1 BRN		E4:1(+VS)	EXT	N	N	1724;	S	5
PLC I/P:X4	MP	C E4		, 3 BLU		E4:4(B)	EXT	N	N	1724;	S	5
PLC I/P:X3	MP	C E4		, 4 BLK		E4:3(A)	EXT	N	N	1724;	S	5
TB2 :2	MP	C FAN		, BK		FAN:2	EXT	N	N	1628	T	
TB3 :4	MP	C FAN		, BK		FAN:1	EXT	N	N	1622	T	

from		Length x mm²(AWG) color Cable	Wire	Wire des./definition	Parts from, wire, to	to		More info Jumper	Conductor	Page	Conductor End	LENGTH (Inches)
TB3 :10		C HMI		, 33C BL		TB7:33	HMI	N	N	1529	T/T	10
TB2 :3	MP	C HMI		, 45C WH		TB7:45	HMI	N	N	1914	T/T	
TB3 :13	MP	C HMI		, 35C BL		TB7:35	HMI	N	N	1532	T/T	10
PLC O/P:Y0	MP	C HMI		, 43C RD		TB7:43	HMI	N	N	1935;	T/RF	
PLC O/P:COM1	MP	C HMI		, 42C RD		TB7:42	HMI	N	N	1935;	T/RF	
TB7:44	HMI	C HMI		, 44C BU		CR1:S14	MP	N	N	1524	T/T	
TB7:34	HMI	C HMI		, 34C BL		CR1:S12	MP	N	N	1529	T/*	23
TB7:38	HMI	C HMI		, 38C BL		TB3 :12	MP	N	N	1536	T/T	
TB7:30	HMI	C HMI		, 30C BU		MS 2M:22	MP	N	N	1917;	T/*	47
TB7:36	HMI	C HMI		, 36C BL		CR1:S13	MP	N	N	1532	T/T	
TB7:31	HMI	C HMI		, 31C BU		CR1:S21	MP	N	N	1522;	T/*	
TB7:39	HMI	C HMI		, 39C RD		TB5:FU7:1	MP	N	N	1638	T/T	
TB7:40	HMI	C HMI		, 40C RD		OL2:14	MP	N	N	1702	T/T	
TB7:32	HMI	C HMI		, 32C BU		TB3 :9	MP	N	N	1525	T/T	10
TB7:37	HMI	C HMI		, 37C BL		CR1:S10	MP	N	N	1536	T/T	25
TB4 :11	HMI	C HMI		, 11C RD		TB3 :14	MP	N	N	2021	T/T	
TB4 :10	HMI	C HMI		, 10C RD		CR6:8(+)	MP	N	N	1928	T/O	
TB4 :29	HMI	C HMI		, 29C BU		PLC I/P:X24	MP	N	N	1833	T/RF	
TB4 :28	HMI	C HMI		, 28C BU		PLC I/P:X25	MP	N	N	1834	T/RF	
TB4 :7	HMI	C HMI		, 7C RD		TB3 :5	MP	N	N	1638	T/T	
TB1 :4	MP	C HMI		, 15C BU		TB4 :15	HMI	N	N	1812	T/T	
TB3 :2	MP	C HMI		, 2C RD		TB4 :2	HMI	N	N	1505	T/T	
TB2 :GND1	MP	C HMI		, G1K		TB4 :GND	HMI	N	N	1808	T/T	
TB3 :3	MP	C HMI		, 3C RD		TB4 :3	HMI	N	N	1607	T/T	
PLC I/P:X11	MP	C HMI		, 19C BU		TB4 :19	HMI	N	N	1817	T/RF	10
PLC I/P:X10	MP	C HMI		, 20C BU		TB4 :20	HMI	N	N	1818	T/RF	10
TB3 :1	MP	C HMI		, 1C BK		TB4 :1	HMI	N	N	1505	T/T	
PLC I/P:X12	MP	C HMI		, 22C BU		TB4 :22	HMI	N	N	1821	T/RF	10
PLC I/P:X13	MP	C HMI		, 21C BU		TB4 :21	HMI	N	N	1820	T/RF	
PLC I/P:X16	MP	C HMI		, 25C BU		TB4 :25	HMI	N	N	1826	T/RF	
PLC I/P:X14	MP	C HMI		, 23C BU		TB4 :23	HMI	N	N	1823	T/RF	
TB1 :1	MP	C HMI		, 14C BU		TB4 :14	HMI	N	N	1805	T/T	
TB3 :6	MP	C HMI		, 6C RD		TB4 :6	HMI	N	N	1613	T/T	
PLC I/P:X7	MP	C HMI		, 18C BU		TB4 :18	HMI	N	N	1815	T/RF	
PLC I/P:X6	MP	C HMI		, 17C BU		TB4 :17	HMI	N	N	1814	T/RF	10

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Wire list: (-)

Unfiltered Wire List

Modification date 02/13/2015
Modified by jhayre

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Form DIN_VRL_70_5_Inch

from		Length x mm²(AWG) color Cable	Wire	Wire des./definition	Parts From, Wire, To	to		More info Jumper	Conductor	Page	Conductor End	LENGTH (Inches)
PLC I/P:X17	MP	C HMI		, 26C BU		TB4 :26	HMI	N	N	1827	T/RF	
PLC I/P:X15	MP	C HMI		, 24C BU		TB4 :24	HMI	N	N	1824	T/RF	
TB3 :17	MP	C HMI		, 13C RD		TB4 :13	HMI	N	N	2024	T/T	
PLC I/P:X20	MP	C HMI		, 27C BU		TB4 :27	HMI	N	N	1829	T/RF	
PLC O/P:Y23	MP	C HMI		, 12C RD		TB4 :12	HMI	N	N	1935;	T/RF	28
PLC O/P:Y22	MP	C HMI		, 9C RD		TB4 :9	HMI	N	N	1935;	T/RF	
PLC O/P:Y3	MP	C HMI		, 8C RD		TB4 :8	HMI	N	N	1935;	T/RF	
TB7:41	HMI	C HMI		, 41C RD		TB5:FU8:1	MP	N	N	1702	T/T	
C ICT:_0	MP	C ICT		, SH		VFD:SD	MP	N	N	1907	S	1.5
PLC O/P:COM2	MP	C ICT		, 4 BLK		VFD:SD	MP	N	N	1935;	S	1.5
PLC O/P:Y4	MP	C ICT		, 1 BRN		VFD:STF	MP	N	N	1935;	S	1.5
PLC O/P:Y5	MP	C ICT		, 2 WHT		VFD:RH	MP	N	N	1935;	S	1.5
P1:3(-)	HD KIT	C P1		, 3 BLU		PLC I/P:0V	MP	N	N	1705	S	4
C P1:_0	HD KIT	C P1		, SH		PLC I/P:0V	MP	N	N	1723;	S	5
P1:1(+)	HD KIT	C P1		, 1 BRN		PLC I/P:S/S	MP	N	N	1705	S	4
P1:4(SIG)	HD KIT	C P1		, 4 BLK		PLC I/P:X2	MP	N	N	1705	S	4
E1022:RS-422	HMI	C PLC		, BLK		PLC I/P:_0	MP	N	N	1803;		
TB2 :GND2	MP	C PLC		16 AWG,		PLC I/P:_0	MP	N	N	1802	T	
C POT:_0	CDT HMI	C POT		, SH		VFD:5	MP	N	N	2007	S	3
POT:_2	HMI	C POT		, GRN		VFD:2	MP	N	N	2004	S	3
POT:_0	HMI	C POT		, BLK		VFD:5	MP	N	N	2004	S	3
POT:_1	HMI	C POT		, RED		VFD:10	MP	N	N	2004	S	3

from	Length x mm²(AWG) color Cable	Wire	Wire des./definition	Parts from, wire, to	to	More info Jumper	Conductor	Page	Conductor End	LENGTH (Inches)

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Wire list: (-)

Unfiltered Wire List

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Form DIN_VRL_70_5_Inch

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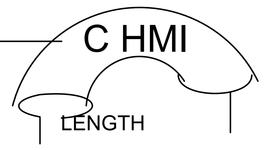
MP TO HMI CONDUIT SHEET

No. of cores 44



CABLES HMI TO MP

Function text	Cond. Length	Conductor End	Target designation from				Target design. to	Conductor Length	Function text
								Length	
HOT;SECONDARYFUSE 8A	21	T/T	TB3 :1	1C BK	161	1C BK	TB4 :1	12	;WORK LIGHT
;MAX. 100W	21	T/T	TB3 :2	2C RD	161	2C RD	TB4 :2	12	;WORK LIGHT
;SAFETY RELAY;HOT;;W	21	T/T	TB3 :3	3C RD	161	3C RD	TB4 :3	12	;SHUTTLE VISE
NEUT;FRONT VISE CLOS	23	T/T	TB2 :3	45C WH	169	45C WH	TB7:45	18	
	25	T/T	TB7:44	44C BU	160	44C BU	CR1:S14	7	SAFETY RELAY
;Hydraulic Motor Lat	23	T/T	TB3 :6	6C RD	163	6C RD	TB4 :6	12	;HYDRAULIC START
RUN;BLADE CHANGE	23	T/T	TB4 :7	7C RD	163	7C RD	TB3 :5	12	RUN;3A T.D.
Pilot Light &Blade B	23	T/RF	PLC O/P:Y3	8C RD	181	8C RD	TB4 :8	30	;BLADE START
Coolant	23	T/RF	PLC O/P:Y22	9C RD	184	9C RD	TB4 :9	33	;;COOLANT RELAY
;;Coolant	23	T/O	TB4 :10	10C RD	180	10C RD	CR6:8(+)	29	COOLANT RELAY
	24	T/T	TB4 :11	11C RD	165	11C RD	TB3 :14	13	
Cycle Pilot Light	24	T/RF	PLC O/P:Y23	12C RD	185	12C RD	TB4 :12	33	;CYCLE START
	24	T/T	TB3 :17	13C RD	165	13C RD	TB4 :13	13	
24VDC;LENGTH ENCODER	24	T/T	TB1 :1	14C BU	182	14C BU	TB4 :14	30	;INTERFACE
0VDC	24	T/T	TB1 :4	15C BU	139	15C BU	TB4 :15	15	0VDC;BLADE STOP
				16C BU		16C BU			
Coolant ON	25	T/RF	PLC I/P:X6	17C BU	161	17C BU	TB4 :17	8	;COOLANT
Coolant AUTO	25	T/RF	PLC I/P:X7	18C BU	161	18C BU	TB4 :18	8	;COOLANT
Shuttle Vise Open	23	T/RF	PLC I/P:X11	19C BU	160	19C BU	TB4 :19	7	;SHUTTLE VISE
Shuttle Vise Close	25	T/RF	PLC I/P:X10	20C BU	160	20C BU	TB4 :20	7	;SHUTTLE VISE
Front Vise Open	27	T/RF	PLC I/P:X13	21C BU	162	21C BU	TB4 :21	7	;FRONT VISE
Front Vise Close	27	T/RF	PLC I/P:X12	22C BU	162	22C BU	TB4 :22	7	;FRONT VISE
Head Up	27	T/RF	PLC I/P:X14	23C BU	162	23C BU	TB4 :23	7	;HEAD
Head Down	27	T/RF	PLC I/P:X15	24C BU	162	24C BU	TB4 :24	7	;HEAD
Blade Start	27	T/RF	PLC I/P:X16	25C BU	162	25C BU	TB4 :25	7	;BLADE START
Cycle Start	27	T/RF	PLC I/P:X17	26C BU	162	26C BU	TB4 :26	7	;CYCLE START
Blade Stop	27	T/RF	PLC I/P:X20	27C BU	162	27C BU	TB4 :27	7	;BLADE STOP
	27	T/RF	TB4 :28	28C BU	165	28C BU	PLC I/P:X25	7	Outboard Vise Option
	27	T/RF	TB4 :29	29C BU	162	29C BU	PLC I/P:X24	7	Outboard Vise Option
;HYDRAULIC START	21	T/*	TB7:30	30C BU	213	30C BU	MS 2M:22	45	BLADE MOTORCONTACTOR
;HYDRAULIC START	21	T/*	TB7:31	31C BU	156	31C BU	CR1:S21	7	SAFETY RELAY
;BLADE CHANGE	21	T/T	TB7:32	32C BU	162	32C BU	TB3 :9	13	
;;SHUTTLE	21	T/T	TB3 :10	33C BL	162	33C BL	TB7:33	13	;E-STOP
;E-STOP	21	T/*	TB7:34	34C BL	182	34C BL	CR1:S12	33	SAFETY RELAY
;;SHUTTLE	21	T/T	TB3 :13	35C BL	162	35C BL	TB7:35	13	;E-STOP
;E-STOP	21	T/T	TB7:36	36C BL	182	36C BL	CR1:S13	33	SAFETY RELAY
;BLADE CHANGE	21	T/T	TB7:37	37C BL	182	37C BL	CR1:S10	33	SAFETY RELAY
;BLADE CHANGE	25	T/T	TB7:38	38C BL	166	38C BL	TB3 :12	13	
;BLADE CHANGE	25	T/T	TB7:39	39C RD	183	39C RD	TB5:FU7:1	30	3A T.D.
;BLADE CHANGE	39	T/T	TB7:40	40C RD	200	40C RD	OL2:14	33	VFDOVERLOAD;HYDRAULI
;BLADE CHANGE	25	T/T	TB7:41	41C RD	183	41C RD	TB5:FU8:1	30	2A FAST
	25	T/RF	PLC O/P:COM1	42C RD	183	42C RD	TB7:42	30	;BLADE CHANGE
Hydraulic Motor Latc	25	T/RF	PLC O/P:Y0	43C RD	183	43C RD	TB7:43	30	;BLADE CHANGE
INSTRUCTIONS	25	T/T	TB2 :GND1	G1K	174	G1K	TB4 :GND	19	;INTERFACE

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MP TO HMI CONDUIT: C HMI (-)

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Modified by jhayre
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Form 95% TEST C HMI

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DIN_KBP_25_3_Inches

Cable overview

DIN_KBU_35

Cable	PART NUMBER	Length	Cond	DESCRIPTION		COMMENTS
C FAN						FAN CABLE
C06	370096	300.	4	Cable, 10M, 4 Wire, with	90 Deg Female M12 Connector	DRIVE DOOR
	372759			Marker Bar, Unprinted, Used on M12 Cable		
	360735			Fitting, Strain Relief, 16/3 & 16/4,		
C ICT	370097	65.0	4	Cable, Shielded, PUR, 10M, 4 Pole, with	Straight Female M12 Connector	INVERTER CONTROL
C E1	370097	360.	4	Cable, Shielded, PUR, 10M, 4 Pole, with	Straight Female M12 Connector	LENGTH ENCODER
	372759			Marker Bar, Unprinted, Used on M12 Cable		
	360735			Fitting, Strain Relief, 16/3 & 16/4,		
C E4	370097	360.	4	Cable, Shielded, PUR, 10M, 4 Pole, with	Straight Female M12 Connector	FEED RATE ENCODER
	372759			Marker Bar, Unprinted, Used on M12 Cable		
	360735			Fitting, Strain Relief, 16/3 & 16/4,		
C P1	370097	393.	4	Cable, Shielded, PUR, 10M, 4 Pole, with	Straight Female M12 Connector	PROXIMITY SWITCH
	372759			Marker Bar, Unprinted, Used on M12 Cable		
	360735			Fitting, Strain Relief, 16/3 & 16/4,		
C05	370098	393.	4	Cable, 10M, 4 Wire, with	Straight Female M12 Connector	IDLER DOOR
	372759			Marker Bar, Unprinted, Used on M12 Cable		
	360735			Fitting, Strain Relief, 16/3 & 16/4,		
C43	370098	310.	4	Cable, 10M, 4 Wire, with	Straight Female M12 Connector	HEAD UP LS
	372759			Marker Bar, Unprinted, Used on M12 Cable		
	360735			Fitting, Strain Relief, 16/3 & 16/4,		
C POT	370105	200.	4	Cable, 22(7) 2 Pr. Ind. Foil Shield		POTENTIOMETER
	360735			Fitting, Strain Relief, 16/3 & 16/4,		
C01	370145	288.	4	Cable, CE 18 Awg, 4 Con,	Oil Resistant	WORK LIGHT
	360735			Fitting, Strain Relief, 16/3 & 16/4,		
C53	370145	396.	4	Cable, CE 18 Awg, 4 Con,	Oil Resistant	BLADE TENSION S/S
	360735			Fitting, Strain Relief, 16/3 & 16/4,		
C04	370146	228.	5	Cable, CE, 18 awg, 5 conductor		SHUTTLE EMERGENCY STOP
	360735			Fitting, Strain Relief, 16/3 & 16/4,		
C PLC	370152		1	Cable, Communicaton, 5M, E-Series,		PLC - E200 COMM CABLE
C11	370215	81.0	3	Cable, Yellow, 16-3C Sjtow		SHUTTLE REVERSE
	370224			Capacitor, 0.33Uf, 250VDC, 10%		
	372415			Resistor, 150 Ohm, 2W, Mf 5%		
	371455			Heat Shrink, Black, 3/32		
	370500			Connector, Hirschmann		
	360735			Fitting, Strain Relief, 16/3 & 16/4,		

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Cable overview

DIN_KBU_35

Cable	PART NUMBER	Length	Cond	DESCRIPTION	COMMENTS
C12	370215	74.0	3	Cable, Yellow, 16-3C Sjtow	SHUTTLE FORWARD
	370224			Capacitor, 0.33Uf, 250VDC, 10%	
	372415			Resistor, 150 Ohm, 2W, Mf 5%	
	371455			Heat Shrink, Black, 3/32	
	370500			Connector, Hirschmann	
	360735			Fitting, Strain Relief, 16/3 & 16/4,	
C13	370215	78.0	3	Cable, Yellow, 16-3C Sjtow	SHUTTLE FAST
	370224			Capacitor, 0.33Uf, 250VDC, 10%	
	372415			Resistor, 150 Ohm, 2W, Mf 5%	
	371455			Heat Shrink, Black, 3/32	
	370500			Connector, Hirschmann	
	360735			Fitting, Strain Relief, 16/3 & 16/4,	
C21	370215	83.0	3	Cable, Yellow, 16-3C Sjtow	SHUTTLE VISE CLOSE
	370224			Capacitor, 0.33Uf, 250VDC, 10%	
	372415			Resistor, 150 Ohm, 2W, Mf 5%	
	371455			Heat Shrink, Black, 3/32	
	370500			Connector, Hirschmann	
	360735			Fitting, Strain Relief, 16/3 & 16/4,	
C22	370215	76.0	3	Cable, Yellow, 16-3C Sjtow	SHUTTLE VISE OPEN
	370224			Capacitor, 0.33Uf, 250VDC, 10%	
	372415			Resistor, 150 Ohm, 2W, Mf 5%	
	371455			Heat Shrink, Black, 3/32	
	370500			Connector, Hirschmann	
	360735			Fitting, Strain Relief, 16/3 & 16/4,	
C31	370215	72.0	3	Cable, Yellow, 16-3C Sjtow	FRONT VISE CLOSE
	370224			Capacitor, 0.33Uf, 250VDC, 10%	
	372415			Resistor, 150 Ohm, 2W, Mf 5%	
	371455			Heat Shrink, Black, 3/32	
	370500			Connector, Hirschmann	
	360735			Fitting, Strain Relief, 16/3 & 16/4,	

Cable overview

DIN_KBU_35

Cable	PART NUMBER	Length	Cond	DESCRIPTION	COMMENTS
C32	370215	64.0	3	Cable, Yellow, 16-3C Sjtow	FRONT VISE OPEN
	370224			Capacitor, 0.33Uf, 250VDC, 10%	
	372415			Resistor, 150 Ohm, 2W, Mf 5%	
	371455			Heat Shrink, Black, 3/32	
	370500			Connector, Hirschmann	
	360735			Fitting, Strain Relief, 16/3 & 16/4,	
C41	370215	66.0	3	Cable, Yellow, 16-3C Sjtow	HEAD UP
	370224			Capacitor, 0.33Uf, 250VDC, 10%	
	372415			Resistor, 150 Ohm, 2W, Mf 5%	
	371455			Heat Shrink, Black, 3/32	
	370500			Connector, Hirschmann	
	360735			Fitting, Strain Relief, 16/3 & 16/4,	
C42	370215	64.0	3	Cable, Yellow, 16-3C Sjtow	HEAD DOWN
	370224			Capacitor, 0.33Uf, 250VDC, 10%	
	372415			Resistor, 150 Ohm, 2W, Mf 5%	
	371455			Heat Shrink, Black, 3/32	
	370500			Connector, Hirschmann	
	360735			Fitting, Strain Relief, 16/3 & 16/4,	
C42-1	370215	180.	3	Cable, Yellow, 16-3C Sjtow	#1 HEAD DOWN DRIVE SIDE
	370224			Capacitor, 0.33Uf, 250VDC, 10%	
	372415			Resistor, 150 Ohm, 2W, Mf 5%	
	371455			Heat Shrink, Black, 3/32	
	370500			Connector, Hirschmann	
	360735			Fitting, Strain Relief, 16/3 & 16/4,	
C42-2	370215	275.	3	Cable, Yellow, 16-3C Sjtow	#2 HEAD DOWN IDLER SIDE
	370224			Capacitor, 0.33Uf, 250VDC, 10%	
	372415			Resistor, 150 Ohm, 2W, Mf 5%	
	371455			Heat Shrink, Black, 3/32	
	370500			Connector, Hirschmann	
	360735			Fitting, Strain Relief, 16/3 & 16/4,	

Cable overview

DIN_KBU_35

Cable	PART NUMBER	Length	Cond	DESCRIPTION		COMMENTS
C51	370215	72.0	3	Cable, Yellow, 16-3C Sjtow		BLADE TENSION +
	370224			Capacitor, 0.33Uf, 250VDC, 10%		
	372415			Resistor, 150 Ohm, 2W, Mf 5%		
	371455			Heat Shrink, Black, 3/32		
	370500			Connector, Hirschmann		
	360735			Fitting, Strain Relief, 16/3 & 16/4,		
C52	370215	73.0	3	Cable, Yellow, 16-3C Sjtow		BLADE TENSION -
	370224			Capacitor, 0.33Uf, 250VDC, 10%		
	372415			Resistor, 150 Ohm, 2W, Mf 5%		
	371455			Heat Shrink, Black, 3/32		
	370500			Connector, Hirschmann		
	360735			Fitting, Strain Relief, 16/3 & 16/4,		
C48	370215	120.	3	Cable, Yellow, 16-3C Sjtow		BLADE BRUSH
	370224			Capacitor, 0.33Uf, 250VDC, 10%		
	372415			Resistor, 150 Ohm, 2W, Mf 5%		
	371455			Heat Shrink, Black, 3/32		
	370500			Connector, Hirschmann		
	392365			Label Cord 0.75 x 1.5		
	360735			Fitting, Strain Relief, 16/3 & 16/4,		
C2 3M	370215	80.0	3	Cable, Yellow, 16-3C Sjtow		COOLANT PUMP CABLE
	392365			Label Cord 0.75 x 1.5		
	360735			Fitting, Strain Relief, 16/3 & 16/4,		
CDT CT	370295	108.	44	Conduit, Flexible Non Metallic Tubing,	1 1/4 in.	CONDUIT HMI TO MP
	370420			Connector, Conduit, 1 1/4"	Plastic, Straight, LT	
	H18-CDT CT-NA-00-			Conduit, Control, HMI to MP	Multi Conductor, 16AWG, 44 Wire,	
	C PLC			Cable, Communicaton		
	C POT			Cable, Potentiometer		
	373125			Wire, 12 Awg / 19, T90, Black		
	373215			Wire, 12 Awg / 19, T90, White		
	373160			Wire, 12 Awg / 19, T90, Green-Yellow		
	373205			Wire, 16 Awg / 26, TEW, Red		
	373140			Wire, 16 Awg / 26, TEW, Dark Blue		
C3M	Coolant Pump	230.	3	Cable, Pre wired to coolant pump		PRE-WIRED CABLE
C HMI	H18-CDT CT-NA-00-		44	Conduit, Control, HMI to MP	Multi Conductor, 16AWG, 44 Wire,	CABLES HMI TO MP

DIN_DKB_1

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From (abbr.) : jhayre

Company/customer : N/A

Drawing number : H28A-7-00A-480V

Project name : H28A 480 Option Kit Rev A
Make : H Machine
Type : H28A
Mounting site : N/A
Responsible for project : JSH

Number of pages : 24

REV.	Affected pages	Modifications	Date	Editor
		ECN: W00-0468	07/03/2012	jhayre

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			Date	09/01/2005	N/A	HYD·MECH GROUP LTD	Title page	=
			Edit.	jhayre				+
			Check.		NONE			H28A-7-00A-480V Page 1
Modification	Date	Name	Standard		Origin	Crea. for	Crea. by	24 Pg.

LEGEND

DT PREFIX	SEQUENTIAL COUNTER	FUCNTION CODE
FU	1	A

FU: Fuse

MS: Motor Starter

OL: Overload

MTR: Motor

LS: Limit Switch

CR: Control Relay

TB: Terminal Block

LT: Pilot Light

PB: Push Button

SS: Selector Switch

POT: Potentiometer

CDT: Conduit

C: Cable

MP: Main Panel (Mounting Location)

HMI: Human Machine Interface (Mounting Location)

HV MP: High Voltage components in Main Panel

HD KIT: Items required for Head Kit

EXT: Externally mounted components

OP OFV: Option - Out Feed Vise

OP CC: Option - Chip Conveyor

OP M&C: Option - Mist & Coolant

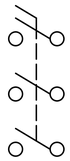
OP C: Option - Coolant

MS: Motor Starter / Contactor

CR: Relay Coil

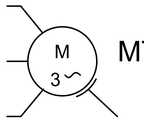
FU: Fusible Terminal

FU: Fuse


Disc: Disconnect Switch

OL: Overload

TR: Transformer



MTR: Motor, 3 Phase

MTR: Motor, AC Single Phase

Contact, Normally Closed

Contact, Normally Open

TB: Terminal

Wire Definition

LS: Normally Closed

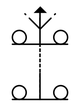
LS: Normally Open

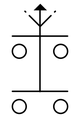
SS: Normally Closed, Key Operated

SS: Normally Open, Key Operated

SS: 2 Position, with 1 NC

SS: 2 Position, with 1 NO


SS: 3 Position Maintained, with 2NC


SS: 3 Position Maintained, with 2NO

PB: Emergency Stop

PB: Push Button, with NC

PB: Push Button, with NO

P: Proximity Switch NPN

SOL: Solonoid

Pilot Light

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N/A
NONE
H28A-7-00A-480V

H28A Electrical Doc.

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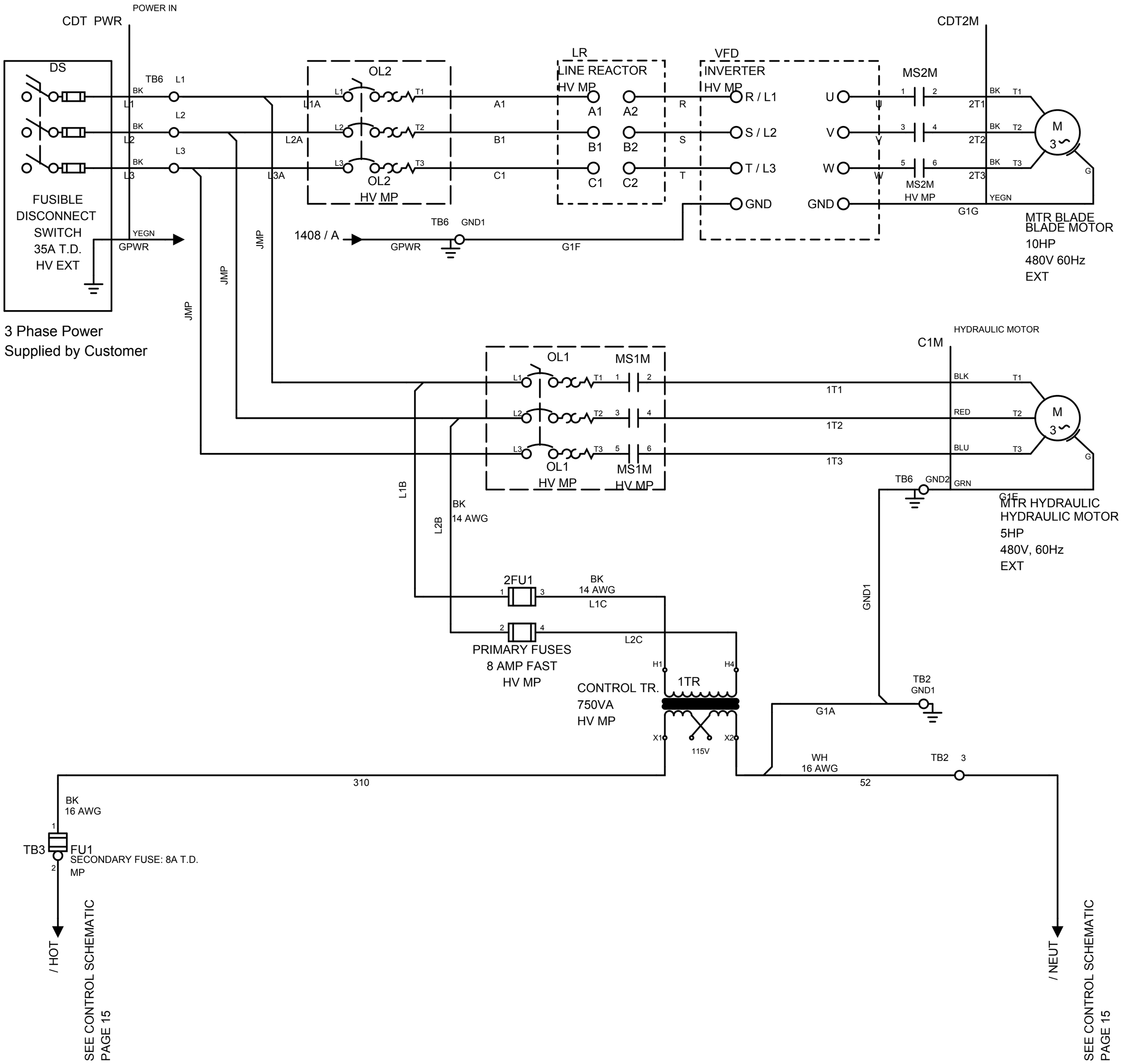
INFORMATION

Modification date 03/31/2005
Modified by jhayre
Check.
Form



H28A Electrical Doc. 480VAC Option Kit -	HYD·MECH GROUP LTD www.hydmech.com	Modification 10/29/2012 jhayre	Dwg. no. H28A-7-00A-480V	
		Schematic Page	480VAC Option Kit -	Page 14 Pg. 24

Parts usage indication

DIN_TNP_30

Part number	Qty	LTH	Designation		DT	Function text	X-ref
372920	1		Transformer, 750VA, 240V-480V, / 120V 50/60Hz, Type T		1TR	CONTROL TR.	1421
371200	1		Fuse Block, 2-Pole, 600V, 30A		2FU1	PRIMARY FUSES	1418
371280	2		Fuse, Fast Acting, 8 Amp, 600V		2FU1	PRIMARY FUSES	1418
370210	1	106	Cable, Yellow Jacket 14-4C Sto		C1M	HYDRAULIC MOTOR	1411
392365	2		Label Cord 0.75 x 1.5		C1M	HYDRAULIC MOTOR	1411
392375	8		Label,Self Laminating Vinyl, 0.5'"x0.75"	Laser, Brady, Used on 6-24 AWG wires	C1M	HYDRAULIC MOTOR	1411
370320	1	246	Conduit, Metal, 1/2 in.		CDT2M	BLADE MOTOR CONDUIT	1402
373160	1	288	Wire, 12 Awg / 19, T90, Green-Yellow		CDT2M	BLADE MOTOR CONDUIT	1402
392985	2		Nut Metal 1/2"		CDT2M	BLADE MOTOR CONDUIT	1402
392365	2		Label Cord 0.75 x 1.5		CDT2M	BLADE MOTOR CONDUIT	1402
373125	3	288	Wire, 12 Awg / 19, T90, Black		CDT2M	BLADE MOTOR CONDUIT	1402
370470	2		Connector, Conduit, 1/2"	Metal, Straight, LT	CDT2M	BLADE MOTOR CONDUIT	1402
392375	8		Label,Self Laminating Vinyl, 0.5'"x0.75"	Laser, Brady, Used on 6-24 AWG wires	CDT2M	BLADE MOTOR CONDUIT	1402
373120	3	84	Wire, 10 Awg / 19, T90, Black		CDT PWR	POWER IN	1402
370455	2		Connector, Conduit, 1/2" Plastic,	Straight, LT	CDT PWR	POWER IN	1402
392365	2		Label Cord 0.75 x 1.5		CDT PWR	POWER IN	1402
370305	1	72	Conduit, Non Metallic, 1/2 in. Grey		CDT PWR	POWER IN	1402
392375	8		Label,Self Laminating Vinyl, 0.5'"x0.75"	Laser, Brady, Used on 6-24 AWG wires	CDT PWR	POWER IN	1402
392985	2		Nut Metal 1/2"		CDT PWR	POWER IN	1402
373155	1	84	Wire, 10 Awg / 19, T90, Green-Yellow		CDT PWR	POWER IN	1402
371330	3		Fuse Time Delay 600V Class R 35Amp		DS	FUSIBLEDISCONNECT SW	1404
370895	1		Disconnect Box Fusible 60 Amp		DS	FUSIBLEDISCONNECT SW	1404
371815	1		Line Reactor, 10HP 480V,	5% Impedance	LR	LINE REACTOR	1407
372283	1		Power Connection Module		MS1M		1412
370607	1		Contactor, 120Vac, 50/60Hz, 2HP 208/230V,	5HP 400/480Vac, 7.5HP 575/600Vac, ST	MS1M		1412
372500	1		Suppressor, Quenchark		MS1M		1412
370612	1		Contactor, 120Vac, 50/60Hz, 5HP 208/230V,	10HP 400/480Vac, 15HP 575/600Vac, ST	MS2M		1404
372500	1		Suppressor, Quenchark		MS2M		1404
345527	1		Gearmotor, 10 Hp, A603, Compact	230/460V, 3 Phase, 60Hz	MTR BLADE	BLADE MOTOR 10HP 480	1404
372002	1		Motor, Electric, PE III,5 HP, 240V/480V	1800 Rpm , 184TC, 60HZ	MTR HYDRAULIC	HYDRAULIC MOTOR 5HP	1412
370556	1		Contact Block, Auxilliary 1 NO , 1 NC,	Mounts to GV2 Motor Protectors,	OL1		1412
372154	1		Overload, Manual Motor Protector,	6 - 10 Amps, Spring Clamp	OL1		1412
372162	1		Plate, Manual Protector, for GV2-ME		OL1		1412
372153	1		Overload, Manual Motor Protector,	13 - 18 Amps, Spring Clamp	OL2		1404
372162	1		Plate, Manual Protector, for GV2-ME		OL2		1404
370556	1		Contact Block, Auxilliary 1 NO , 1 NC,	Mounts to GV2 Motor Protectors,	OL2		1404
371648	1		Inverter, 10 HP, 7.5K, 380-480V I/P	380-480V O/P,	VFD	INVERTER	1408

Parts usage indication

DIN_TNP_30

Part number	Qty	LTH	Designation	DT	Function text	X-ref
372335	8		Rail, Din 35 x 7, 5 Slotted 2M	TB6		
372705	1		Terminal, PE, 20-8 AWG	TB6:GND1		1408
372755	1		Terminal Markers, Marcom	TB6:GND1		1408
372705	1		Terminal, PE, 20-8 AWG	TB6:GND2		1415
372755	1		Terminal Markers, Marcom	TB6:GND2		1415
372745	1		Terminal, 20-8 AWG, 600V, CSA=45A, UL=50A, Beige	TB6:L1		1404
372755	1		Terminal Markers, Marcom	TB6:L1		1404
371050	1		End Plate, Used with WK 6 terminals	TB6:L1		1404
372745	1		Terminal, 20-8 AWG, 600V, CSA=45A, UL=50A, Beige	TB6:L2		1405
372755	1		Terminal Markers, Marcom	TB6:L2		1405
372755	1		Terminal Markers, Marcom	TB6:L3		1406
372745	1		Terminal, 20-8 AWG, 600V, CSA=45A, UL=50A, Beige	TB6:L3		1406

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Device list

DIN_PSL_50_4

DT	Qty	Length	Designation 1	Designation 2	Part Number	Colomn Intentionally left blank	Colomn Intentionally left blank	Page/path	Function text
1TR	1		Transformer, 750VA, 240V-480V, / 120V	50/60Hz, Type T	372920			1421	CONTROL TR.
2FU1	1		Fuse Block, 2-Pole, 600V, 30A		371200			1418	PRIMARY FUSES
	2		Fuse, Fast Acting, 8 Amp, 600V		371280				
C1M	1	109.0	Cable, Yellow Jacket 14-4C Sto		370210			1411	HYDRAULIC MOTOR
	8		Label,Self Laminating Vinyl, 0.5'"x0.75"	Laser, Brady, Used on 6-24 AWG wires	392375				
	2		Label Cord 0.75 x 1.5		392365				
CDT2M	1	246.0	Conduit, Metal, 1/2 in.		370320			1402	BLADE MOTOR CONDUIT
	2		Connector, Conduit, 1/2"	Metal, Straight, LT	370470				
	2		Nut Metal 1/2"		392985				
	3		Wire, 12 Awg / 19, T90, Black		373125				
	1		Wire, 12 Awg / 19, T90, Green-Yellow		373160				
	8		Label,Self Laminating Vinyl, 0.5'"x0.75"	Laser, Brady, Used on 6-24 AWG wires	392375				
	2		Label Cord 0.75 x 1.5		392365				
CDT PWR	1	72.0	Conduit, Non Metallic, 1/2 in. Grey		370305			1402	POWER IN
	2		Connector, Conduit, 1/2" Plastic,	Straight, LT	370455				
	2		Nut Metal 1/2"		392985				
	3		Wire, 10 Awg / 19, T90, Black		373120				
	1		Wire, 10 Awg / 19, T90, Green-Yellow		373155				
	2		Label Cord 0.75 x 1.5		392365				
	8		Label,Self Laminating Vinyl, 0.5'"x0.75"	Laser, Brady, Used on 6-24 AWG wires	392375				
DS	1		Disconnect Box Fusible 60 Amp		370895			1404	FUSIBLEDISCONNECT SWITCH35A T.D.
	3		Fuse Time Delay 600V Class R 35Amp		371330				
LR	1		Line Reactor, 10HP 480V,	5% Impedance	371815			1407	LINE REACTOR
MS1M	1		Contactor, 120Vac, 50/60Hz, 2HP 208/230V	5HP 400/480Vac, 7.5HP 575/600Vac, ST	370607				
	1		Power Connection Module		372283				
	1		Suppressor, Quenchark		372500				
MS2M	1		Contactor, 120Vac, 50/60Hz, 5HP 208/230V	10HP 400/480Vac, 15HP 575/600Vac, ST	370612				
	1		Suppressor, Quenchark		372500				
MTR BLADE	1		Gearmotor, 10 Hp, A603, Compact	230/460V, 3 Phase, 60Hz	345527			1404	BLADE MOTOR 10HP 480V 60Hz
MTR HYDRAULIC	1		Motor, Electric, PE III,5 HP, 240V/480V	1800 Rpm , 184TC, 60HZ	372002			1412	HYDRAULIC MOTOR 5HP 480V, 60Hz
OL1	1		Overload, Manual Motor Protector,	6 - 10 Amps, Spring Clamp	372154			1412	
	1		Contact Block, Auxilliary 1 NO , 1 NC,	Mounts to GV2 Motor Protectors,	370556				
	1		Plate, Manual Protector, for GV2-ME		372162				
OL2	1		Overload, Manual Motor Protector,	13 - 18 Amps, Spring Clamp	372153			1404	
	1		Contact Block, Auxilliary 1 NO , 1 NC,	Mounts to GV2 Motor Protectors,	370556				
	1		Plate, Manual Protector, for GV2-ME		372162				
TB2									
TB3									
TB6	8		Rail, Din 35 x 7, 5 Slotted 2M		372335				
VFD	1		Inverter, 10 HP, 7.5K, 380-480V I/P	380-480V O/P,	371648			1408	INVERTER

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from		Length x mm²(AWG) color Cable	Wire	Wire des./definition	Parts From, Wire, To	to		More info Jumper	Conductor	Page	Conductor End	LENGTH (Inches)
OL1:T1	HV MP			,		MS1M :1	HV MP	N	N	1412		
OL1:T3	HV MP			,		MS1M :5	HV MP	N	N	1412		
OL1:T2	HV MP			,		MS1M :3	HV MP	N	N	1412		
TB6:GND1	HV MP		G1F	10 AWG,		VFD:GND	HV MP	N	N	1408	YR/T	96
TB6:L1	HV MP		L1A	10 AWG, BK		OL2:L1	HV MP	N	N	1404		
TB6:L2	HV MP		L2A	10 AWG, BK		OL2:L2	HV MP	N	N	1405		
TB6:L3	HV MP		L3A	10 AWG, BK		OL2:L3	HV MP	N	N	1406		
OL2:T1	HV MP		A1	12 AWG,		LR:A1	HV MP	N	N	1404	T/T	???
OL2:T2	HV MP		B1	12 AWG,		LR:B1	HV MP	N	N	1404	T/T	???
OL2:T3	HV MP		C1	12 AWG,		LR:C1	HV MP	N	N	1404	T/T	???
TB6:GND2	HV MP		GND1	12 AWG, YEGN		TB2:GND1	MP	N	N	1415		
TB6:L2	HV MP		JMP	12 AWG, BK		OL1:L2	HV MP	N	N	1405		
TB6:L1	HV MP		JMP	12 AWG, BK		OL1:L1	HV MP	N	N	1404		
TB6:L3	HV MP		JMP	12 AWG, BK		OL1:L3	HV MP	N	N	1406		
LR:A2	HV MP		R	12 AWG, BK		VFD:R / L1	HV MP	N	N	1407;	T/YR	23
LR:B2	HV MP		S	12 AWG, BK		VFD:S / L2	HV MP	N	N	1407;	T/YR	23
LR:C2	HV MP		T	12 AWG, BK		VFD:T / L3	HV MP	N	N	1407;	T/YR	23
VFD:U	HV MP		U	12 AWG, BK		MS2M:1	HV MP	N	N	1408;	YR/T	23
VFD:V	HV MP		V	12 AWG, BK		MS2M:3	HV MP	N	N	1408;	YR/T	23
VFD:W	HV MP		W	12 AWG, BK		MS2M:5	HV MP	N	N	1408;	YR/T	23
2FU1 :1	HV MP		L1B	14 AWG, BK		OL1:L1	HV MP	N	N	1418	T/T	
1TR :H1	HV MP		L1C	14 AWG, BK		2FU1 :3	HV MP	N	N	1421	T/BR	
2FU1 :2	HV MP		L2B	14 AWG, BK		OL1:L2	HV MP	N	N	1418	T/T	
1TR :H4	HV MP		L2C	14 AWG, BK		2FU1 :4	HV MP	N	N	1421	T/BR	
1TR :X2	HV MP		52	16 AWG, WH		TB2:3	MP	N	N	1421	T/ BR	
TB3:FU1:1	MP		310	16 AWG, BK		1TR :X1	HV MP	N	N	1425	T/BR	22
1TR :X2	HV MP		G1A	16 AWG, YEGN		TB2:GND1	MP	N	N	1421	BR/T	16
MS1M :2	HV MP	C1M	1T1	, BLK		MTR HYDRAULIC:T1	EXT	N	N	1412;	T	5
MS1M :4	HV MP	C1M	1T2	, RED		MTR HYDRAULIC:T2	EXT	N	N	1412;	T	5
MS1M :6	HV MP	C1M	1T3	, BLU		MTR HYDRAULIC:T3	EXT	N	N	1412;	T	5
TB6:GND2	HV MP	C1M	G1E	, GRN		MTR HYDRAULIC:G	EXT	N	N	1415	T	5
MTR BLADE:T1	EXT	CDT2M	2T1	12 AWG, BK		MS2M:2	HV MP	N	N	1404;	T	288
MTR BLADE:T2	EXT	CDT2M	2T2	12 AWG, BK		MS2M:4	HV MP	N	N	1404;	T	288
MTR BLADE:T3	EXT	CDT2M	2T3	12 AWG, BK		MS2M:6	HV MP	N	N	1404;	T	288
MTR BLADE:G	EXT	CDT2M	G1G	12 AWG, YEGN		VFD:GND	HV MP	N	N	1408;	YR	288

from		Length x mm²(AWG) color Cable	Wire	Wire des./definition	Parts from, wire, to	to		More info Jumper	Conductor	Page	Conductor End	LENGTH (Inches)
TB6:GND1	HV MP	CDT PWR	GPWR	10 AWG, YEGN		DS:_0	HV EXT	N	N	1404; T		84
TB6:L1	HV MP	CDT PWR	L1	10 AWG, BK		DS:_3	HV EXT	N	N	1404; T		86
TB6:L2	HV MP	CDT PWR	L2	10 AWG, BK		DS:_4	HV EXT	N	N	1404; T		86
TB6:L3	HV MP	CDT PWR	L3	10 AWG, BK		DS:_5	HV EXT	N	N	1404; T		86

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H28A Electrical Doc.
H28A-7-00A-480V
480VAC Option Kit

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Wire list: (- L3)

Modification date 10/29/2012
Modified by jhayre
Check.
Form DIN_VRL_70_5_Inch

Cable overview

DIN_KBU_35

Cable	PART NUMBER	Length	Cond	DESCRIPTION		COMMENTS
C1M	370210	109.	4	Cable, Yellow Jacket 14-4C Sto		HYDRAULIC MOTOR
	392375			Label,Self Laminating Vinyl, 0.5'"x0.75"	Laser, Brady, Used on 6-24 AWG wires	
	392365			Label Cord 0.75 x 1.5		
CDT2M	370320	246.		Conduit, Metal, 1/2 in.		BLADE MOTOR CONDUIT
	370470			Connector, Conduit, 1/2"	Metal, Straight, LT	
	392985			Nut Metal 1/2"		
	373125			Wire, 12 Awg / 19, T90, Black		
	373160			Wire, 12 Awg / 19, T90, Green-Yellow		
	392375			Label,Self Laminating Vinyl, 0.5'"x0.75"	Laser, Brady, Used on 6-24 AWG wires	
	392365			Label Cord 0.75 x 1.5		
CDT PWR	370305	72.0	1	Conduit, Non Metallic, 1/2 in. Grey		POWER IN
	370455			Connector, Conduit, 1/2" Plastic,	Straight, LT	
	392985			Nut Metal 1/2"		
	373120			Wire, 10 Awg / 19, T90, Black		
	373155			Wire, 10 Awg / 19, T90, Green-Yellow		
	392365			Label Cord 0.75 x 1.5		
	392375			Label,Self Laminating Vinyl, 0.5'"x0.75"	Laser, Brady, Used on 6-24 AWG wires	

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Created on : 07/05/2001
Edited on : 10/29/2012
From (abbr.) : jhayre

Company/customer : N/A

Drawing number : H32A-7-00A-480V

Project name : H32A 480 Option Kit Rev A
Make : H Machine
Type : H32A
Mounting site : N/A
Responsible for project : JSH

Number of pages : 26

REV.	Affected pages	Modifications	Date	Editor

			Date	09/01/2005	N/A	HYD·MECH GROUP LTD	Title page	=
			Edit.	jhayre				+
			Check.		NONE			H32A-7-00A-480V Page 1
Modification	Date	Name	Standard		Origin	Crea. for	Crea. by	26 Pg.

LEGEND

DT PREFIX	SEQUENTIAL COUNTER	FUCNTION CODE
FU	1	A

FU: Fuse

MS: Motor Starter

OL: Overload

MTR: Motor

LS: Limit Switch

CR: Control Relay

TB: Terminal Block

LT: Pilot Light

PB: Push Button

SS: Selector Switch

POT: Potentiometer

CDT: Conduit

C: Cable

MP: Main Panel (Mounting Location)

HMI: Human Machine Interface (Mounting Location)

HV MP: High Voltage components in Main Panel

HD KIT: Items required for Head Kit

EXT: Externally mounted components

OP OFV: Option - Out Feed Vise

OP CC: Option - Chip Conveyor

OP M&C: Option - Mist & Coolant

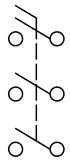
OP C: Option - Coolant

MS: Motor Starter / Contactor

CR: Relay Coil

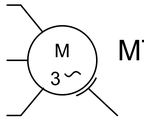
FU: Fusible Terminal

FU: Fuse


Disc: Disconnect Switch

OL: Overload

TR: Transformer



MTR: Motor, 3 Phase

MTR: Motor, AC Single Phase

Contact, Normally Closed

Contact, Normally Open

TB: Terminal

Wire Definition

LS: Normally Closed

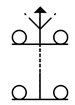
LS: Normally Open

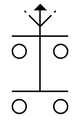
SS: Normally Closed, Key Operated

SS: Normally Open, Key Operated

SS: 2 Position, with 1 NC

SS: 2 Position, with 1 NO


SS: 3 Position Maintained, with 2NC


SS: 3 Position Maintained, with 2NO

PB: Emergency Stop

PB: Push Button, with NC

PB: Push Button, with NO

P: Proximity Switch NPN

SOL: Solonoid

Pilot Light

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				Modification date 03/31/2005 Modified by jhayre	Check. Form
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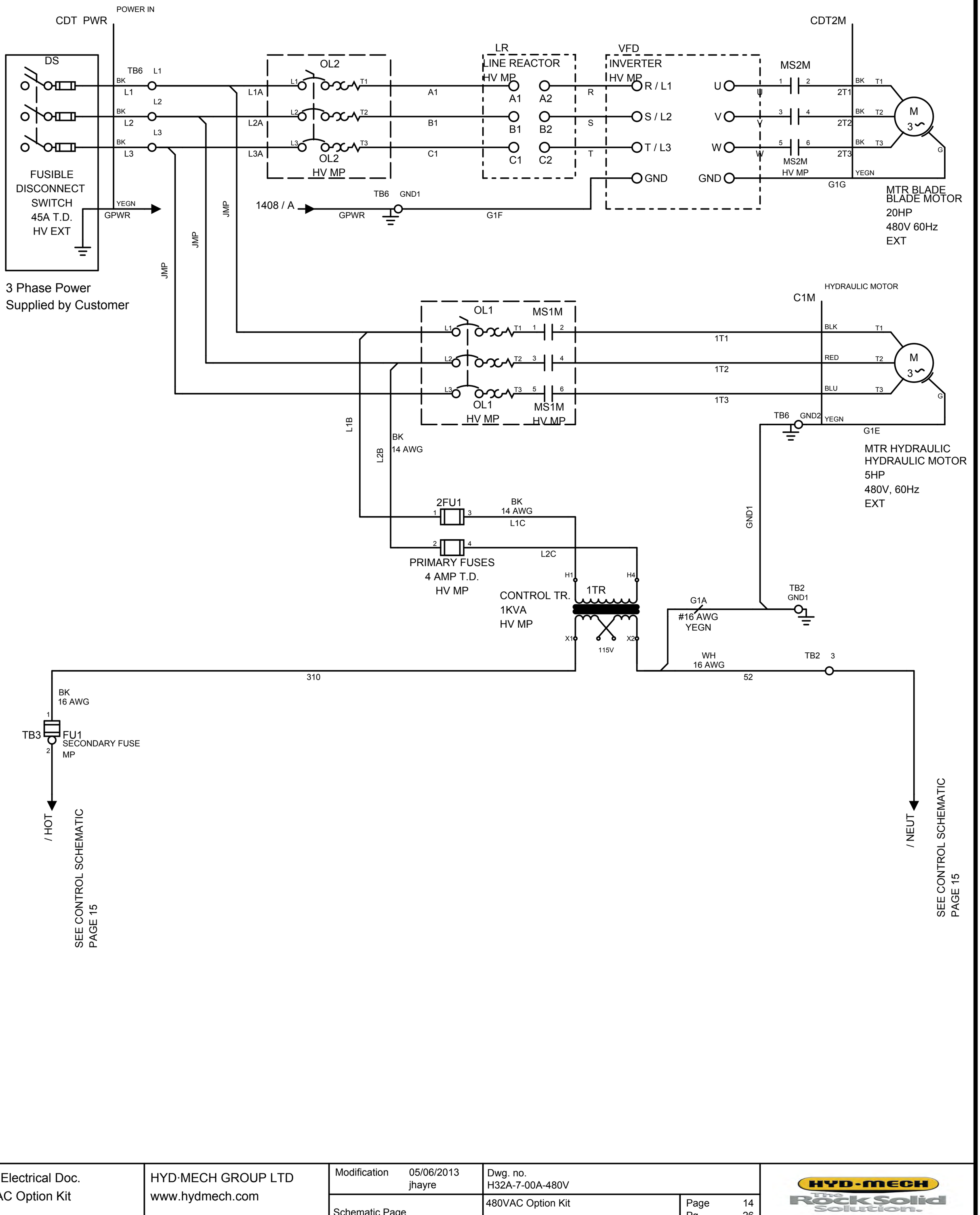

H32A Electrical Doc. 480VAC Option Kit -	HYD·MECH GROUP LTD www.hydmech.com	Modification 05/06/2013 jhayre	Dwg. no. H32A-7-00A-480V	
		Schematic Page	480VAC Option Kit -	Page 14 Pg. 26

Parts usage indication

DIN_TNP_30

Part number	Qty	LTH	Designation		DT	Function text	X-ref
372950	1		Transformer, 1KVA, 240V-480V, / 120V	50/60Hz, Type T	1TR	CONTROL TR.	1421
371399	2		Fuse, Time Delay, 4 Amp, 600V		2FU1	PRIMARY FUSES	1418
371200	1		Fuse Block, 2-Pole, 600V, 30A		2FU1	PRIMARY FUSES	1418
392365	2		Label Cord 0.75 x 1.5		C1M	HYDRAULIC MOTOR	1411
392375	8		Label,Self Laminating Vinyl, 0.5'"x0.75"	Laser, Brady, Used on 6-24 AWG wires	C1M	HYDRAULIC MOTOR	1411
370210	1	109	Cable, Yellow Jacket 14-4C Sto		C1M	HYDRAULIC MOTOR	1411
373110	3	288	Wire, 8 Awg / 19, Black		CDT2M	BLADE MOTOR CONDUIT	1402
392365	2		Label Cord 0.75 x 1.5		CDT2M	BLADE MOTOR CONDUIT	1402
370429	2		Connector, Conduit, 3/4"	Metal, Straight, LT	CDT2M	BLADE MOTOR CONDUIT	1402
392375	8		Label,Self Laminating Vinyl, 0.5'"x0.75"	Laser, Brady, Used on 6-24 AWG wires	CDT2M	BLADE MOTOR CONDUIT	1402
373154	1	288	Wire, 8 Awg / 19, T90, Green/Yellow		CDT2M	BLADE MOTOR CONDUIT	1402
370325	1	246	Conduit, Metal, 3/4 in.		CDT2M	BLADE MOTOR CONDUIT	1402
392986	2		Nut Metal 3/4"		CDT2M	BLADE MOTOR CONDUIT	1402
370460	2		Connector, Conduit, 3/4" Plastic,	Straight, LT	CDT PWR	POWER IN	1402
392365	2		Label Cord 0.75 x 1.5		CDT PWR	POWER IN	1402
373154	1	86	Wire, 8 Awg / 19, T90, Green/Yellow		CDT PWR	POWER IN	1402
370310	1	72	Conduit, Non Metallic, 3/4 in. Grey		CDT PWR	POWER IN	1402
392375	8		Label,Self Laminating Vinyl, 0.5'"x0.75"	Laser, Brady, Used on 6-24 AWG wires	CDT PWR	POWER IN	1402
373110	3	86	Wire, 8 Awg / 19, Black		CDT PWR	POWER IN	1402
392986	2		Nut Metal 3/4"		CDT PWR	POWER IN	1402
371410	3		Fuse, Time Delay, 45 Amp, 600V		DS	FUSIBLEDISCONNECT SW	1404
370895	1		Disconnect Box Fusible 60 Amp		DS	FUSIBLEDISCONNECT SW	1404
371825	1		Line Reactor, 20HP 480V,	5% Impedance	LR	LINE REACTOR	1407
372283	1		Power Connection Module		MS1M		1412
370607	1		Contactor, 120Vac, 50/60Hz, 2HP 208/230V	5HP 400/480Vac, 7.5HP 575/600Vac, ST	MS1M		1412
372500	1		Suppressor, Quenchark		MS1M		1412
372500	1		Suppressor, Quenchark		MS2M		1404
370613	1		Contactor, 120VAC, 10HP @ 208/240VAC	20HP @ 400/480VAC Screw Terminal	MS2M		1404
390909	1		Adapter, Aluminum, 3/4 NPT Female, to	1.25" NPT Male	MTR BLADE	BLADE MOTOR 20HP 480	1404
371968	1		Electric Motor, 20 Hp, 230/460V, 60Hz	256TC, Cast Iron frame	MTR BLADE	BLADE MOTOR 20HP 480	1404
372002	1		Motor, Electric, PE III,5 HP, 240V/480V	1800 Rpm , 184TC, 60HZ	MTR HYDRAULIC	HYDRAULIC MOTOR 5HP	1412
372162	1		Plate, Manual Protector, for GV2-ME		OL1		1412
370556	1		Contact Block, Auxilliary 1 NO , 1 NC,	Mounts to GV2 Motor Protectors,	OL1		1412
372154	1		Overload, Manual Motor Protector,	6 - 10 Amps, Spring Clamp	OL1		1412
372146	1		Overload, Manual Motor Protector,	24 - 32 Amps, Screw Terminal	OL2		1404
370556	1		Contact Block, Auxilliary 1 NO , 1 NC,	Mounts to GV2 Motor Protectors,	OL2		1404
371613	1		Inverter, 20HP, 15K, 480V I/P	480 O/P, F Series	VFD	INVERTER	1408

Parts usage indication

DIN_TNP_30

Part number	Qty	LTH	Designation	DT	Function text	X-ref
372335	8		Rail, Din 35 x 7, 5 Slotted 2M	TB6		
372705	1		Terminal, PE, 20-8 AWG	TB6:GND1		1408
372705	1		Terminal, PE, 20-8 AWG	TB6:GND2		1415
372745	1		Terminal, 20-8 AWG, 600V, CSA=45A, UL=50A, Beige	TB6:L1		1404
371050	1		End Plate, Used with WK 6 terminals	TB6:L1		1404
372745	1		Terminal, 20-8 AWG, 600V, CSA=45A, UL=50A, Beige	TB6:L2		1405
372745	1		Terminal, 20-8 AWG, 600V, CSA=45A, UL=50A, Beige	TB6:L3		1406

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Device list

DIN_PSL_50_4

DT	Qty	Length	Designation 1	Designation 2	Part Number	Colomn Intentionally left blank	Colomn Intentionally left blank	Page/path	Function text
1TR	1		Transformer, 1KVA, 240V-480V, / 120V	50/60Hz, Type T	372950			1421	CONTROL TR.
2FU1	1		Fuse Block, 2-Pole, 600V, 30A		371200			1418	PRIMARY FUSES
	2		Fuse, Time Delay, 4 Amp, 600V		371399				
C1M	1	109.0	Cable, Yellow Jacket 14-4C Sto		370210			1411	HYDRAULIC MOTOR
	8		Label,Self Laminating Vinyl, 0.5'"x0.75"	Laser, Brady, Used on 6-24 AWG wires	392375				
	2		Label Cord 0.75 x 1.5		392365				
CDT2M	1	246.0	Conduit, Metal, 3/4 in.		370325			1402	BLADE MOTOR CONDUIT
	2		Connector, Conduit, 3/4"	Metal, Straight, LT	370429				
	2		Nut Metal 3/4"		392986				
	3		Wire, 8 Awg / 19, Black		373110				
	1		Wire, 8 Awg / 19, T90, Green/Yellow		373154				
	2		Label Cord 0.75 x 1.5		392365				
	8		Label,Self Laminating Vinyl, 0.5'"x0.75"	Laser, Brady, Used on 6-24 AWG wires	392375				
CDT PWR	1	72.0	Conduit, Non Metallic, 3/4 in. Grey		370310			1402	POWER IN
	2		Connector, Conduit, 3/4" Plastic,	Straight, LT	370460				
	3		Wire, 8 Awg / 19, Black		373110				
	1		Wire, 8 Awg / 19, T90, Green/Yellow		373154				
	2		Nut Metal 3/4"		392986				
	2		Label Cord 0.75 x 1.5		392365				
	8		Label,Self Laminating Vinyl, 0.5'"x0.75"	Laser, Brady, Used on 6-24 AWG wires	392375				
DS	1		Disconnect Box Fusible 60 Amp		370895			1404	FUSIBLEDISCONNECT SWITCH45A T.D.
	3		Fuse, Time Delay, 45 Amp, 600V		371410				
LR	1		Line Reactor, 20HP 480V,	5% Impedance	371825			1407	LINE REACTOR
MS1M	1		Contactor, 120Vac, 50/60Hz, 2HP 208/230V	5HP 400/480Vac, 7.5HP 575/600Vac, ST	370607				
	1		Power Connection Module		372283				
	1		Suppressor, Quenchark		372500				
MS2M	1		Contactor, 120VAC, 10HP @ 208/240VAC,	20HP @ 400/480VAC Screw Terminal	370613				
	1		Suppressor, Quenchark		372500				
MTR BLADE	1		Electric Motor, 20 Hp, 230/460V, 60Hz	256TC, Cast Iron frame	371968			1404	BLADE MOTOR 20HP 480V 60Hz
	1		Adapter, Aluminum, 3/4 NPT Female, to	1.25" NPT Male	390909				
MTR HYDRAULIC	1		Motor, Electric, PE III,5 HP, 240V/480V	1800 Rpm , 184TC, 60HZ	372002			1412	HYDRAULIC MOTOR 5HP 480V, 60Hz
OL1	1		Overload, Manual Motor Protector,	6 - 10 Amps, Spring Clamp	372154			1412	
	1		Contact Block, Auxilliary 1 NO , 1 NC,	Mounts to GV2 Motor Protectors,	370556				
	1		Plate, Manual Protector, for GV2-ME		372162				
OL2	1		Overload, Manual Motor Protector,	24 - 32 Amps, Screw Terminal	372146			1404	
	1		Contact Block, Auxilliary 1 NO , 1 NC,	Mounts to GV2 Motor Protectors,	370556				
TB2									
TB3									
TB6	8		Rail, Din 35 x 7, 5 Slotted 2M		372335				
VFD	1		Inverter, 20HP, 15K, 480V I/P	480 O/P, F Series	371613			1408	INVERTER

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from		Length x mm²(AWG) color Cable	Wire	Wire des./definition	Parts From, Wire, To	to		More info Jumper	Conductor	Page	Conductor End	LENGTH (Inches)
OL1:T3	HV MP			,		MS1M :5	HV MP	N	N	1412		
OL1:T2	HV MP			,		MS1M :3	HV MP	N	N	1412		
OL1:T1	HV MP			,		MS1M :1	HV MP	N	N	1412		
OL2:T1	HV MP		A1	8 AWG,		LR:A1	HV MP	N	N	1404	T/T	96
OL2:T2	HV MP		B1	8 AWG,		LR:B1	HV MP	N	N	1404	T/T	96
OL2:T3	HV MP		C1	8 AWG,		LR:C1	HV MP	N	N	1404	T/T	96
TB6:GND1	HV MP		G1F	8 AWG,		VFD:GND	HV MP	N	N	1408	PR/T	96
TB6:L1	HV MP		L1A	8 AWG, BK		OL2:L1	HV MP	N	N	1404		
TB6:L2	HV MP		L2A	8 AWG, BK		OL2:L2	HV MP	N	N	1405		
TB6:L3	HV MP		L3A	8 AWG, BK		OL2:L3	HV MP	N	N	1406		
LR:A2	HV MP		R	8 AWG, BK		VFD:R / L1	HV MP	N	N	1407;	T/PR	23
LR:B2	HV MP		S	8 AWG, BK		VFD:S / L2	HV MP	N	N	1407;	T/PR	23
LR:C2	HV MP		T	8 AWG, BK		VFD:T / L3	HV MP	N	N	1407;	T/PR	23
VFD:U	HV MP		U	8 AWG, BK		MS2M:1	HV MP	N	N	1408;	PR/T	23
VFD:V	HV MP		V	8 AWG, BK		MS2M:3	HV MP	N	N	1408;	PR/T	23
VFD:W	HV MP		W	8 AWG, BK		MS2M:5	HV MP	N	N	1408;	PR/T	23
TB6:GND2	HV MP		GND1	12 AWG, YEGN		TB2:GND1	MP	N	N	1415		
TB6:L2	HV MP		JMP	12 AWG, BK		OL1:L2	HV MP	N	N	1405		
TB6:L3	HV MP		JMP	12 AWG, BK		OL1:L3	HV MP	N	N	1406		
TB6:L1	HV MP		JMP	12 AWG, BK		OL1:L1	HV MP	N	N	1404		96
2FU1 :1	HV MP		L1B	14 AWG, BK		OL1:L1	HV MP	N	N	1418	T/T	
1TR :H1	HV MP		L1C	14 AWG, BK		2FU1 :3	HV MP	N	N	1421	T/BR	
2FU1 :2	HV MP		L2B	14 AWG, BK		OL1:L2	HV MP	N	N	1418	T/T	
1TR :H4	HV MP		L2C	14 AWG, BK		2FU1 :4	HV MP	N	N	1421	T/BR	
1TR :X2	HV MP		52	16 AWG, WH		TB2:3	MP	N	N	1421	T/ BR	
TB3:FU1:1	MP		310	16 AWG, BK		1TR :X1	HV MP	N	N	1425	T/BR	22
1TR :X2	HV MP		G1A	16 AWG, YEGN		TB2:GND1	MP	N	N	1421	BR/T	16
MS1M :2	HV MP	C1M	1T1	, BLK		MTR HYDRAULIC:T1	EXT	N	N	1412;	T	8
MS1M :4	HV MP	C1M	1T2	, RED		MTR HYDRAULIC:T2	EXT	N	N	1412;	T	8
MS1M :6	HV MP	C1M	1T3	, BLU		MTR HYDRAULIC:T3	EXT	N	N	1412;	T	8
TB6:GND2	HV MP	C1M	G1E	, YEGN		MTR HYDRAULIC:G	EXT	N	N	1415	T	10
MTR BLADE:T1	EXT	CDT2M	2T1	8 AWG, BK		MS2M:2	HV MP	N	N	1404;	T	288
MTR BLADE:T2	EXT	CDT2M	2T2	8 AWG, BK		MS2M:4	HV MP	N	N	1404;	T	288
MTR BLADE:T3	EXT	CDT2M	2T3	8 AWG, BK		MS2M:6	HV MP	N	N	1404;	T	288
MTR BLADE:G	EXT	CDT2M	G1G	8 AWG, YEGN		VFD:GND	HV MP	N	N	1408;	PR	288

from		Length x mm²(AWG) color Cable	Wire	Wire des./definition	Parts from, wire, to	to		More info Jumper	Conductor	Page	Conductor End	LENGTH (Inches)
TB6:GND1	HV MP	CDT PWR	GPWR	8 AWG, YEGN		DS:_0	HV EXT	N	N	1404; T		86
TB6:L1	HV MP	CDT PWR	L1	8 AWG, BK		DS:_3	HV EXT	N	N	1404; T		86
TB6:L2	HV MP	CDT PWR	L2	8 AWG, BK		DS:_4	HV EXT	N	N	1404; T		86
TB6:L3	HV MP	CDT PWR	L3	8 AWG, BK		DS:_5	HV EXT	N	N	1404; T		86

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Cable overview

DIN_KBU_35

Cable	PART NUMBER	Length	Cond	DESCRIPTION		COMMENTS
C1M	370210	109.	4	Cable, Yellow Jacket 14-4C Sto		HYDRAULIC MOTOR
	392375			Label,Self Laminating Vinyl, 0.5'"x0.75"	Laser, Brady, Used on 6-24 AWG wires	
	392365			Label Cord 0.75 x 1.5		
CDT2M	370325	246.		Conduit, Metal, 3/4 in.		BLADE MOTOR CONDUIT
	370429			Connector, Conduit, 3/4"	Metal, Straight, LT	
	392986			Nut Metal 3/4"		
	373110			Wire, 8 Awg / 19, Black		
	373154			Wire, 8 Awg / 19, T90, Green/Yellow		
	392365			Label Cord 0.75 x 1.5		
	392375			Label,Self Laminating Vinyl, 0.5'"x0.75"	Laser, Brady, Used on 6-24 AWG wires	
CDT PWR	370310	72.0	1	Conduit, Non Metallic, 3/4 in. Grey		POWER IN
	370460			Connector, Conduit, 3/4" Plastic,	Straight, LT	
	373110			Wire, 8 Awg / 19, Black		
	373154			Wire, 8 Awg / 19, T90, Green/Yellow		
	392986			Nut Metal 3/4"		
	392365			Label Cord 0.75 x 1.5		
	392375			Label,Self Laminating Vinyl, 0.5'"x0.75"	Laser, Brady, Used on 6-24 AWG wires	

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DIN_DKB_1

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Created on : 01/10/2005
Edited on : 09/17/2012
From (abbr.) : jhayre

Company/customer : N/A

Drawing number : H28A-NA-7-01A-1

Project name : H28A Outboard Vise Option Rev A
Make : H28A & H32A Machines
Type : H
Mounting site : N/A
Responsible for project : JSH

Number of pages : 33

REV.	Affected pages	Modifications	Date	Editor
		ECN:W00-0468	05/11/2012	jhayre

			Date	09/01/2005	N/A	HYD·MECH GROUP LTD.	Title page		=
			Edit.	jhayre					+
			Check.		NONE			H28A-NA-7-01A-1	Page 1
Modification	Date	Name	Standard		Origin	Crea. for	Crea. by		33 Pg.

LEGEND

DT PREFIX	SEQUENTIAL COUNTER	FUCNTION CODE
FU	1	A

FU: Fuse

MS: Motor Starter

OL: Overload

MTR: Motor

LS: Limit Switch

CR: Control Relay

TB: Terminal Block

LT: Pilot Light

PB: Push Button

SS: Selector Switch

POT: Potentiometer

CDT: Conduit

C: Cable

MP: Main Panel (Mounting Location)

HMI: Human Machine Interface (Mounting Location)

HV MP: High Voltage components in Main Panel

HD KIT: Items required for Head Kit

EXT: Externally mounted components

OP OFV: Option - Out Feed Vise

OP CC: Option - Chip Conveyor

OP M&C: Option - Mist & Coolant

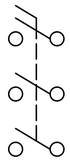
OP C: Option - Coolant

MS: Motor Starter / Contactor

CR: Relay Coil

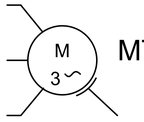
FU: Fusible Terminal

FU: Fuse


Disc: Disconnect Switch

OL: Overload

TR: Transformer



MTR: Motor, 3 Phase

MTR: Motor, AC Single Phase

Contact, Normally Closed

Contact, Normally Open

TB: Terminal

Wire Definition

LS: Normally Closed

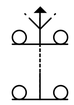
LS: Normally Open

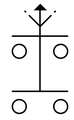
SS: Normally Closed, Key Operated

SS: Normally Open, Key Operated

SS: 2 Position, with 1 NC

SS: 2 Position, with 1 NO


SS: 3 Position Maintained, with 2NC


SS: 3 Position Maintained, with 2NO

PB: Emergency Stop

PB: Push Button, with NC

PB: Push Button, with NO

P: Proximity Switch NPN

SOL: Solonoid

Pilot Light

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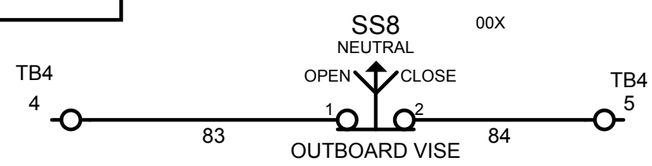
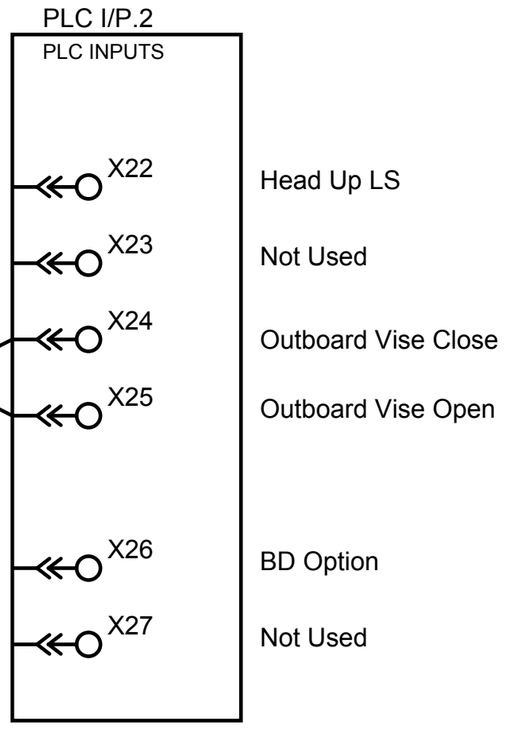
See Schematic: H28ASV with no options
Page Ref: 1607

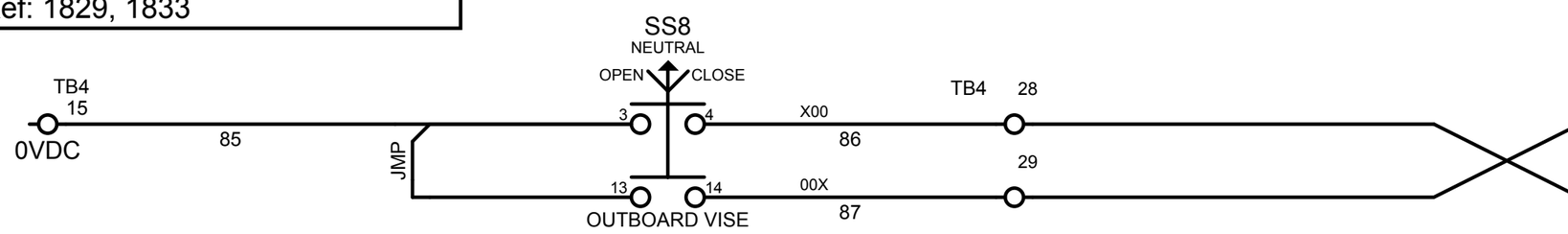


INSTALL SWITCH AND WIRE AS INDIATED

Only Partial INPUTS of PLC Shown

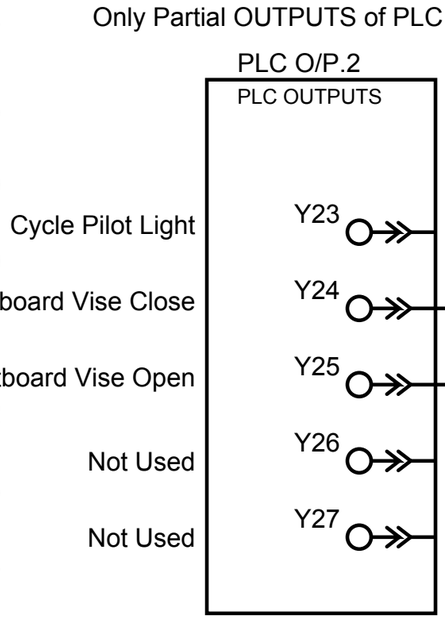


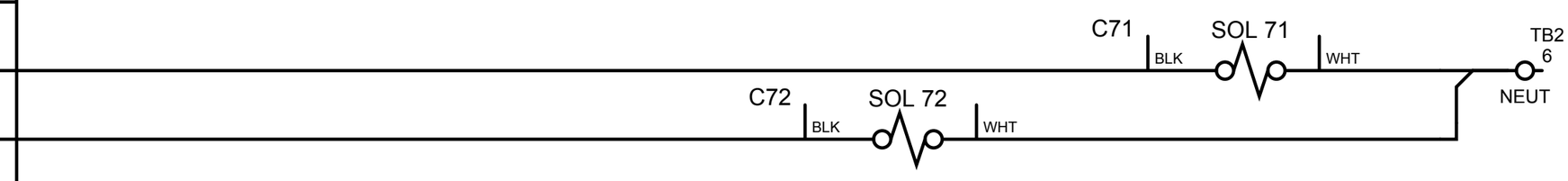
See Schematic: H28ASV with no options
Page Ref: 1829, 1833



WIRES FROM TB4 TERMINAS TO PLC ARE FROM CABLE: C HMI & ARE FACTORY INSTALLED

Only Partial OUTPUTS of PLC Shown





CONNECT AS INDICATED

See Schematic: H28ASV with no options
Page Ref: 1933

Parts usage indication

DIN_TNP_30

Part number	Qty	LTH	Designation	DT	Function text	X-ref
360735	1		Fitting, Strain Relief, 16/3 & 16/4,	C71	OUTBOARD VISE CLOSE	2130
370215	1	72	Cable, Yellow, 16-3C Sjtow	C71	OUTBOARD VISE CLOSE	2130
371455	1		Heat Shrink, Black, 3/32	C71	OUTBOARD VISE CLOSE	2130
392365	1		Label Cord 0.75 x 1.5	C71	OUTBOARD VISE CLOSE	2130
370224	1		Capacitor, 0.33Uf, 250VDC, 10%	C71	OUTBOARD VISE CLOSE	2130
370500	1		Connector, Hirschmann	C71	OUTBOARD VISE CLOSE	2130
372415	1		Resistor, 150 Ohm, 2W, Mf 5%	C71	OUTBOARD VISE CLOSE	2130
360735	1		Fitting, Strain Relief, 16/3 & 16/4,	C72	OUTBOARD VISE OPEN	2131
370215	1	72	Cable, Yellow, 16-3C Sjtow	C72	OUTBOARD VISE OPEN	2131
371455	1		Heat Shrink, Black, 3/32	C72	OUTBOARD VISE OPEN	2131
370224	1		Capacitor, 0.33Uf, 250VDC, 10%	C72	OUTBOARD VISE OPEN	2131
370500	1		Connector, Hirschmann	C72	OUTBOARD VISE OPEN	2131
372415	1		Resistor, 150 Ohm, 2W, Mf 5%	C72	OUTBOARD VISE OPEN	2131
392365	1		Label Cord 0.75 x 1.5	C72	OUTBOARD VISE OPEN	2131
372652	1		Switch, Selector, 3 Position, Spring Ret Left to Center & Maintained to Right	SS8	OUTBOARD VISE	2114
370586	1		Contact Block, Body & 2 NO	SS8	OUTBOARD VISE	2114
370529	1		Block, Contact, 1 NC	SS8	OUTBOARD VISE	2114

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Device list

DIN_PSL_50_4

DT	Qty	Length	Designation 1	Designation 2	Part Number	Colomn Intentionally left blank	Colomn Intentionally left blank	Page/path	Function text
C71	1	72.0	Cable, Yellow, 16-3C Sjtow		370215			2130	OUTBOARD VISE CLOSE
	1		Resistor, 150 Ohm, 2W, Mf 5%		372415				
	1		Heat Shrink, Black, 3/32		371455				
	1		Connector, Hirschmann		370500				
	1		Fitting, Strain Relief, 16/3 & 16/4,		360735				
	1		Capacitor, 0.33Uf, 250VDC, 10%		370224				
	1		Label Cord 0.75 x 1.5		392365				
C72	1	72.0	Cable, Yellow, 16-3C Sjtow		370215			2131	OUTBOARD VISE OPEN
	1		Resistor, 150 Ohm, 2W, Mf 5%		372415				
	1		Heat Shrink, Black, 3/32		371455				
	1		Connector, Hirschmann		370500				
	1		Fitting, Strain Relief, 16/3 & 16/4,		360735				
	1		Capacitor, 0.33Uf, 250VDC, 10%		370224				
	1		Label Cord 0.75 x 1.5		392365				
PLC I/P.2								2118	PLC INPUTS
PLC O/P.2								2134	PLC OUTPUTS
SOL 71								2130	OUTBOARD VISE CLOSE
SOL 72								2131	OUTBOARD VISE OPEN
SS8	1		Contact Block, Body & 2 NO		370586			2114	OUTBOARD VISE
	1		Switch, Selector, 3 Position, Spring Ret	Left to Center & Maintained to Right	372652				
	1		Block, Contact, 1 NC		370529				
TB2									
TB4									

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Device list

DT

SS8

2114 OUTBOARD VISE

TB4

PIN	WIRE #	TARGETS	WIRE COLOUR	WIRE ENDS	LENGTH
3	85;JMP	TB4 :15;SS8:13	BU;BU	T/*;*/*	
4	86	TB4 :28	BU	*/T	
13	JMP	SS8:3	BU	*/*	
14	87	TB4 :29	BU	*/T	
1	83	TB4 :4	RD	T/*	
2	84	TB4 :5	RD	*/T	

DT

PIN	WIRE #	WIRE COLOUR	TARGETS	WIRE ENDS	LENGTH

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from		Length x mm²(AWG) color Cable	Wire	Wire des./definition	Parts From, Wire, To	to		More info Jumper	Conductor	Page	Conductor End	LENGTH (Inches)
SS8:13	HMI		JMP	, BU		SS8:3	HMI	N	N	2114;	*/*	
TB4 :4	HMI		83	16 AWG, RD		SS8:1	HMI	N	N	2102	T/*	
TB4 :15	HMI		85	16 AWG, BU		SS8:3	HMI	N	N	2113	T/*	
SS8:2	HMI		84	16 AWG, RD		TB4 :5	HMI	N	N	2114;	*/T	
SS8:4	HMI		86	16 AWG, BU		TB4 :28	HMI	N	N	2114;	*/T	
SS8:14	HMI		87	16 AWG, BU		TB4 :29	HMI	N	N	2114;	*/T	
TB2 :6	MP	C71		, WHT		SOL 71:_1	EXT	N	N	2130	T	15
PLC O/P.2:Y24	MP	C71		, BLK		SOL 71:_0	EXT	N	N	2134;	RF	15
TB2 :6	MP	C72		, WHT		SOL 72:_1	EXT	N	N	2131	T	15
PLC O/P.2:Y25	MP	C72		, BLK		SOL 72:_0	EXT	N	N	2134;	RF	15

from	Length x mm²(AWG) color Cable	Wire	Wire des./definition	Parts from, wire, to	to	More info Jumper	Conductor	Page	Conductor End	LENGTH (Inches)

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H28A SV Electrical Doc.
H28A-NA-7-01A-1
Outboard Vise Option

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Wire list: (JMP -)

Unfiltered Wire List

Modification date 09/17/2012
Modified by jhayre

Check.
Form DIN_VRL_70_5_Inch

Cable overview

DIN_KBU_35

Cable	PART NUMBER	Length	Cond	DESCRIPTION	COMMENTS
C71	370215	72.0	3	Cable, Yellow, 16-3C Sjtow	OUTBOARD VISE CLOSE
	372415			Resistor, 150 Ohm, 2W, Mf 5%	
	371455			Heat Shrink, Black, 3/32	
	370500			Connector, Hirschmann	
	360735			Fitting, Strain Relief, 16/3 & 16/4,	
	370224			Capacitor, 0.33Uf, 250VDC, 10%	
	392365			Label Cord 0.75 x 1.5	
C72	370215	72.0	3	Cable, Yellow, 16-3C Sjtow	OUTBOARD VISE OPEN
	372415			Resistor, 150 Ohm, 2W, Mf 5%	
	371455			Heat Shrink, Black, 3/32	
	370500			Connector, Hirschmann	
	360735			Fitting, Strain Relief, 16/3 & 16/4,	
	370224			Capacitor, 0.33Uf, 250VDC, 10%	
	392365			Label Cord 0.75 x 1.5	

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1500

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eMAIL. info@hydmech.com

Created on : 01/10/2005
Edited on : 10/09/2012
From (abbr.) : jhayre

Company/customer : N/A

Drawing number : H28A-NA-7-02A-1

Project name : H28A Mist Option Rev A
Make : H28A & H32A Machines
Type : H
Mounting site : N/A
Responsible for project : JSH

Number of pages : 33

REV.	Affected pages	Modifications	Date	Editor
		ECN: W00-0468	05/11/2012	jhayre

			Date	09/01/2005	N/A	HYD·MECH GROUP LTD.	Title page		=
			Edit.	jhayre					+
			Check.		NONE			H28A-NA-7-02A-1	Page 1
Modification	Date	Name	Standard		Origin	Crea. for	Crea. by		33 Pg.

LEGEND

DT PREFIX	SEQUENTIAL COUNTER	FUCNTION CODE
FU	1	A

FU: Fuse

MS: Motor Starter

OL: Overload

MTR: Motor

LS: Limit Switch

CR: Control Relay

TB: Terminal Block

LT: Pilot Light

PB: Push Button

SS: Selector Switch

POT: Potentiometer

CDT: Conduit

C: Cable

MP: Main Panel (Mounting Location)

HMI: Human Machine Interface (Mounting Location)

HV MP: High Voltage components in Main Panel

HD KIT: Items required for Head Kit

EXT: Externally mounted components

OP OFV: Option - Out Feed Vise

OP CC: Option - Chip Conveyor

OP M&C: Option - Mist & Coolant

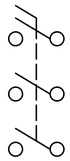
OP C: Option - Coolant

MS: Motor Starter / Contactor

CR: Relay Coil

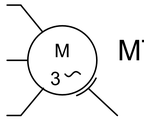
FU: Fusible Terminal

FU: Fuse


Disc: Disconnect Switch

OL: Overload

TR: Transformer



MTR: Motor, 3 Phase

MTR: Motor, AC Single Phase

Contact, Normally Closed

Contact, Normally Open

TB: Terminal

Wire Definition

LS: Normally Closed

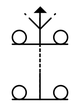
LS: Normally Open

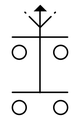
SS: Normally Closed, Key Operated

SS: Normally Open, Key Operated

SS: 2 Position, with 1 NC

SS: 2 Position, with 1 NO


SS: 3 Position Maintained, with 2NC


SS: 3 Position Maintained, with 2NO

PB: Emergency Stop

PB: Push Button, with NC

PB: Push Button, with NO

P: Proximity Switch NPN

SOL: Solonoid

Pilot Light

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N/A
NONE
H28A-NA-7-02A-1

H28A SV Electrical Doc.

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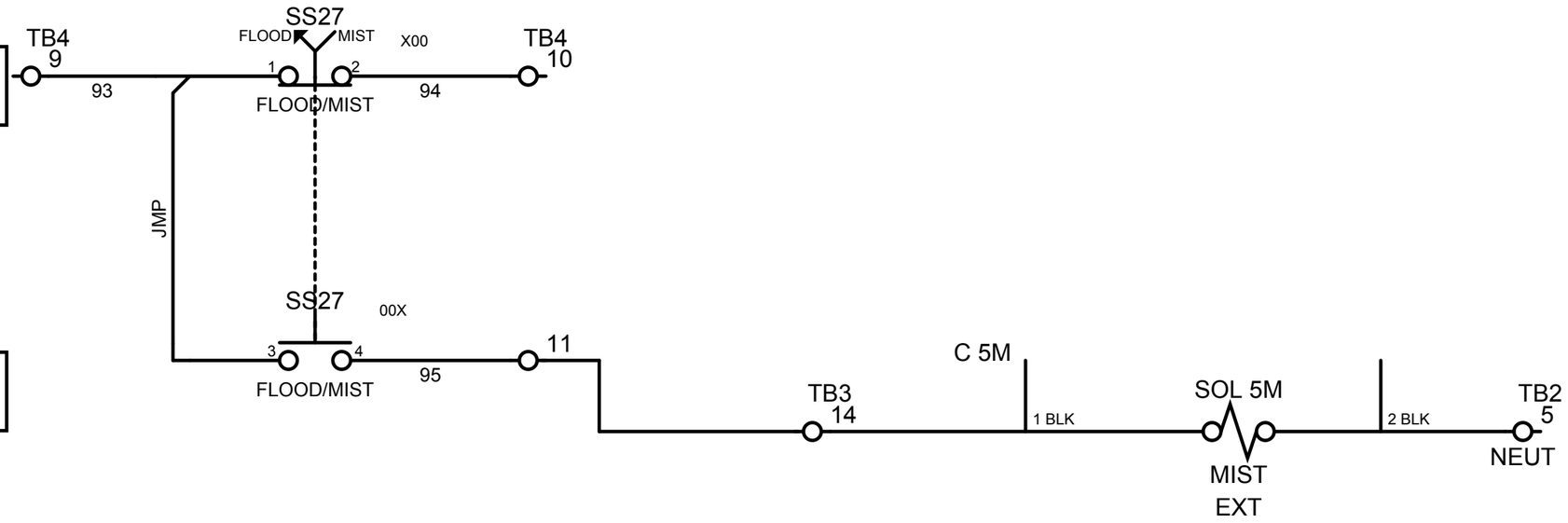
INFORMATION

Modification date 03/17/2005
Modified by jhayre

Check.
Form

REMOVE Copper Jumper between
TB4:9 & TB4:10 (if installed)

See Schematic: H28ASV with no options
Page Ref: 1930



See Schematic: H28ASV with no options
Page Ref: 2021

INSTALL SWITCH & CABLES, THEN WIRE AS INDIATED. WIRE FROM TB4:11 TO TB3:14 IS FROM CABLE: C HMI AND IS FACTORY INSTALLED.

Parts usage indication

DIN_TNP_30

Part number	Qty	LTH	Designation	DT	Function text	X-ref
370144	1	89	Cable, CE, 19Awg Oil Resistant	C 5M	MIST	2409
392365	1		Label Cord 0.75 x 1.5	C 5M	MIST	2409
360735	1		Fitting, Strain Relief, 16/3 & 16/4,	C 5M	MIST	2409
363310	1		Valve, Solenoid, 120V / 60Hz,110V /50Hz, 5.4W, 120PSI, for Cool-Mist system	SOL 5M	MIST	2410
391922	1		Label, Coolant, Flood Mist	SS27	FLOOD/MIST	2405
370576	1		Contact Block, Body & 1 NO	SS27	FLOOD/MIST	2405
372626	1		Switch, Selector, 2 Position Maintained,	SS27	FLOOD/MIST	2405
370529	1		Block, Contact, 1 NC	SS27	FLOOD/MIST	2405

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Device list

DIN_PSL_50_4

DT	Qty	Length	Designation 1	Designation 2	Part Number	Colomn Intentionally left blank	Colomn Intentionally left blank	Page/path	Function text
C 5M	1	89.0	Cable, CE, 19Awg Oil Resistant		370144			2409	MIST
	1		Fitting, Strain Relief, 16/3 & 16/4,		360735				
	1		Label Cord 0.75 x 1.5		392365				
SOL 5M	1		Valve, Solenoid, 120V / 60Hz,110V /50Hz,	5.4W, 120PSI, for Cool-Mist system	363310			2410	MIST
SS27	1		Switch, Selector, 2 Position Maintained,		372626			2405	FLOOD/MIST
	1		Contact Block, Body & 1 NO		370576				
	1		Block, Contact, 1 NC		370529				
	1		Label, Coolant, Flood Mist		391922				
TB2									
TB3									
TB4									

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Device list

DT

SS27

2405
FLOOD/MIST

TB4

PIN	WIRE #	TARGETS	WIRE COLOUR	WIRE ENDS	LENGTH
1	93;JMP	TB4 :9;SS27:3	RD;RD	T/*;*/*	
2	94	TB4 :10	RD	*/T	
3	JMP	SS27:1	RD	*/*	
4	95	TB4 :11	RD	*/T	

DT

PIN	WIRE #	WIRE COLOUR	TARGETS	WIRE ENDS	LENGTH

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H28A SV Electrical Doc.
H28A-NA-7-02A-1
Mist Option

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Device list: (SS27 - TB4)

Filtered List: Wiring List

Modification date 09/20/2012
Modified by jhayre

Check.
Form Text F8 CND_PSL_30_2_dyn

from		Length x mm²(AWG) color Cable	Wire	Wire des./definition	Parts From, Wire, To	to		More info Jumper	Conductor	Page	Conductor End	LENGTH (Inches)
SS27:3	HMI		JMP	, RD		SS27:1	HMI	N	N	2405;	*/*	
TB4 :9	HMI		93	16 AWG, RD		SS27:1	HMI	N	N	2405	T/*	
SS27:2	HMI		94	16 AWG, RD		TB4 :10	HMI	N	N	2405;	*/T	
SS27:4	HMI		95	16 AWG, RD		TB4 :11	HMI	N	N	2405;	*/T	
TB2 :5	MP	C 5M		, 2 BLK		SOL 5M:_1	EXT	N	N	2410	T	18
TB3 :14	MP	C 5M		, 1 BLK		SOL 5M:_0	EXT	N	N	2410	T	18

from	Length x mm²(AWG) color Cable	Wire	Wire des./definition	Parts from, wire, to	to	More info Jumper	Conductor	Page	Conductor End	LENGTH (Inches)

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H28A SV Electrical Doc.
H28A-NA-7-02A-1
Mist Option

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Wire list: (JMP -)

Unfiltered Wire List

Modification date 09/20/2012
Modified by jhayre

Check.
Form DIN_VRL_70_5_Inch

Cable overview

DIN_KBU_35

Cable	PART NUMBER	Length	Cond	DESCRIPTION	COMMENTS
C 5M	370144	89.0	3	Cable, CE, 19Awg Oil Resistant	MIST
	360735			Fitting, Strain Relief, 16/3 & 16/4,	
	392365			Label Cord 0.75 x 1.5	

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eMAIL. info@hydmech.com

Created on : 01/10/2005
Edited on : 01/17/2013
From (abbr.) : jhayre

Company/customer : N/A

Drawing number : H28ASV-NA-7-04-1

Project name : H28A & H32A SV OOS Option
Make : H28A & H32A Machines
Type : H
Mounting site : N/A
Responsible for project : JSH

Number of pages : 48

REV.	Affected pages	Modifications	Date	Editor
B	ALL	ECN: W00-0468	02/10/2006	jhayre

			Date	03/26/2012	N/A	HYD·MECH GROUP LTD.	Title page		=
			Edit.	jhayre					+
			Check.		NONE			H28ASV-NA-7-04-1	Page 1
Modification	Date	Name	Standard		Origin	Crea. for	Crea. by		48 Pg.

LEGEND

DT PREFIX	SEQUENTIAL COUNTER	FUCNTION CODE
FU	1	A

FU: Fuse

MS: Motor Starter

OL: Overload

MTR: Motor

LS: Limit Switch

CR: Control Relay

TB: Terminal Block

LT: Pilot Light

PB: Push Button

SS: Selector Switch

POT: Potentiometer

CDT: Conduit

C: Cable

MP: Main Panel (Mounting Location)

HMI: Human Machine Interface (Mounting Location)

HV MP: High Voltage components in Main Panel

HD KIT: Items required for Head Kit

EXT: Externally mounted components

OP OFV: Option - Out Feed Vise

OP CC: Option - Chip Conveyor

OP M&C: Option - Mist & Coolant

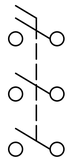
OP C: Option - Coolant

MS: Motor Starter / Contactor

CR: Relay Coil

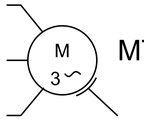
FU: Fusible Terminal

FU: Fuse


Disc: Disconnect Switch

OL: Overload

TR: Transformer



MTR: Motor, 3 Phase

MTR: Motor, AC Single Phase

Contact, Normally Closed

Contact, Normally Open

TB: Terminal

Wire Definition

LS: Normally Closed

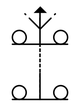
LS: Normally Open

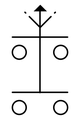
SS: Normally Closed, Key Operated

SS: Normally Open, Key Operated

SS: 2 Position, with 1 NC

SS: 2 Position, with 1 NO


SS: 3 Position Maintained, with 2NC


SS: 3 Position Maintained, with 2NO

PB: Emergency Stop

PB: Push Button, with NC

PB: Push Button, with NO

P: Proximity Switch NPN

SOL: Solonoid

Pilot Light

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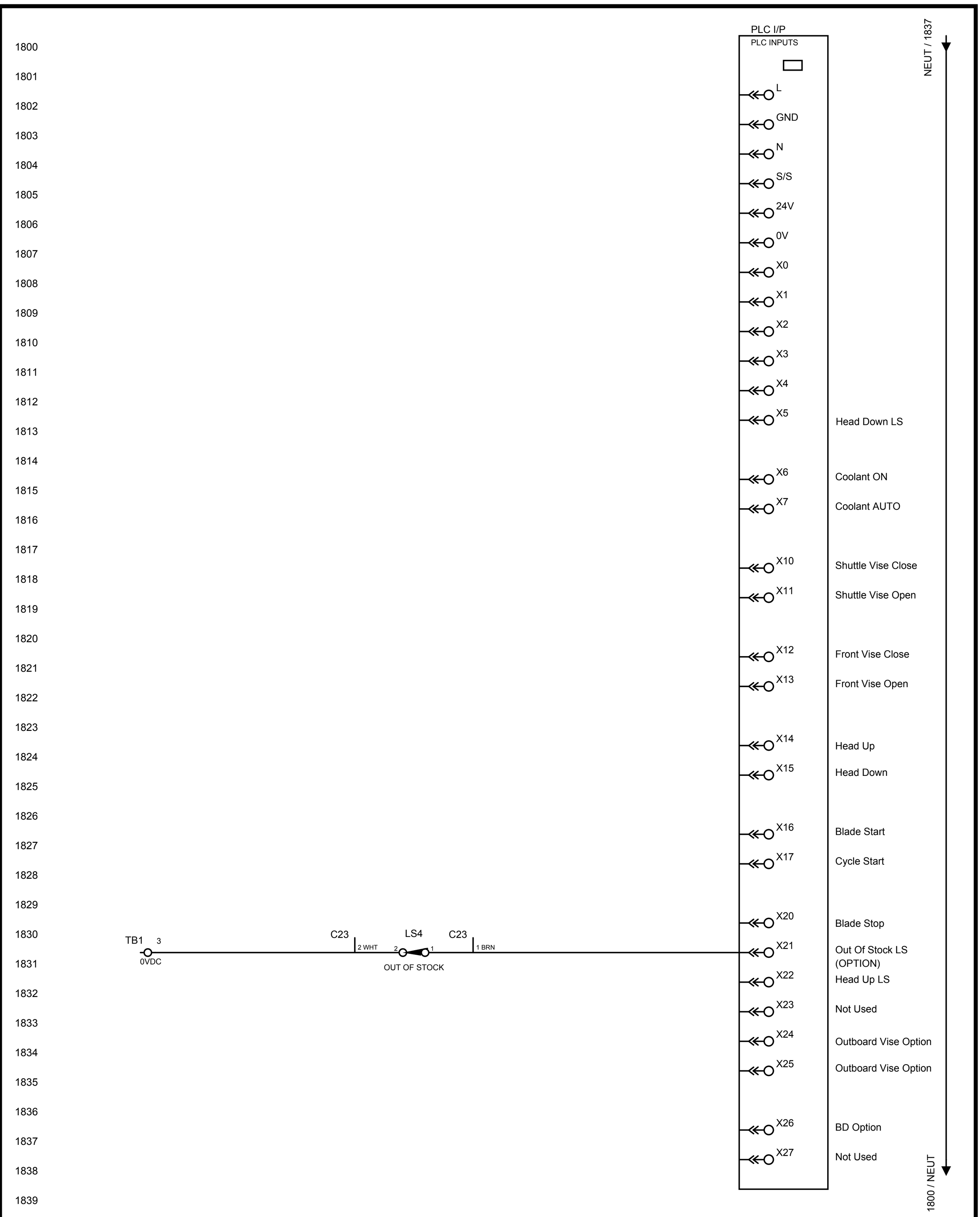

H28A & H32A SV Electrical Doc. Out Of Stock Option -	HYD·MECH GROUP LTD. www.hydmech.com	Modification 09/20/2012 jhayre	Dwg. no. H28ASV-NA-7-04-1	
		Schematic page	Out Of Stock Option -	Page 18 Pg. 48

Parts usage indication

DIN_TNP_30

Part number	Qty	LTH	Designation	DT	Function text	X-ref
360735	1		Fitting, Strain Relief, 16/3 & 16/4,	C23	OUT OF STOCK	1830
372759	2		Marker Bar, Unprinted, Used on M12 Cable	C23	OUT OF STOCK	1830
370098	1	192	Cable, 10M, 4 Wire, with Straight Female M12 Connector	C23	OUT OF STOCK	1830
372524	1		Switch, Limit, 1NO & 1NC, M12 Connector 1NO & 1NC, M12 Connector	LS4	OUT OF STOCK	1830
373314	1		Lever, Roller, Thermoplastic	LS4	OUT OF STOCK	1830
373313	1		Switch, Actuator, Rotary Head without lever, Spring Return	LS4	OUT OF STOCK	1830

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3100

Device list

DIN_PSL_50_4

DT	Qty	Length	Designation 1	Designation 2	Part Number	Colomn Intentionally left blank	Colomn Intentionally left blank	Page/path	Function text
C23	1	192.0	Cable, 10M, 4 Wire, with	Straight Female M12 Connector	370098			1830	OUT OF STOCK
	2		Marker Bar, Unprinted, Used on M12 Cable		372759				
	1		Fitting, Strain Relief, 16/3 & 16/4,		360735				
LS4	1		Switch, Limit, 1NO & 1NC, M12 Connector	1NO & 1NC, M12 Connector	372524			1830	OUT OF STOCK
	1		Switch, Actuator, Rotary Head	without lever, Spring Return	373313				
	1		Lever, Roller, Thermoplastic		373314				
PLC I/P								1838	PLC INPUTS
TB1	11		Rail, Din 35 x 7, 5 Slotted 2M		372335				
	2		End Clamp, Used with 35 x 7.5 din rail		371070				

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from		Length x mm²(AWG) color Cable	Wire	Wire des./definition	Parts From, Wire, To	to		More info Jumper	Conductor	Page	Conductor End	LENGTH (Inches)
PLC I/P:X21	MP	C23		, 1 BRN		LS4:1	EXT	N	N	1830	*	7
TB1 :3	MP	C23		, 2 WHT		LS4:2	EXT	N	N	1830		

from	Length x mm²(AWG) color Cable	Wire	Wire des./definition	Parts from, wire, to	to	More info Jumper	Conductor	Page	Conductor End	LENGTH (Inches)

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750

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H28A & H32A SV Electrical Doc.
H28ASV-NA-7-04-1
Out Of Stock Option

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Wire list: (-)

Unfiltered Wire List

Modification date 01/17/2013
Modified by jhayre

Check.
Form DIN_VRL_70_5_Inch

Page 700

Cable overview

DIN_KBU_35

Cable	PART NUMBER	Length	Cond	DESCRIPTION	COMMENTS
C23	370098	192.	4	Cable, 10M, 4 Wire, with Straight Female M12 Connector	OUT OF STOCK
	372759			Marker Bar, Unprinted, Used on M12 Cable	
	360735			Fitting, Strain Relief, 16/3 & 16/4,	

Next page
1305

HYD·MECH GROUP LTD.
1079 PARKINSON ROAD, P.O. BOX 1030
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eMAIL. info@hydmech.com

Created on : 01/10/2005
Edited on : 04/02/2012
From (abbr.) : jhayre

Company/customer : N/A

Drawing number : H28A-NA-7-09-1

Project name : H28A Blade Deflection Option
Make : H28A Machines
Type : H28A
Mounting site : N/A
Responsible for project : JSH

Number of pages : 29

REV.	Affected pages	Modifications	Date	Editor
		ECN: W00-0213, W00-0301 & W00-0284	02/10/2006	jhayre

			Date	09/01/2005	N/A	HYD·MECH GROUP LTD.	Title page		=
			Edit.	jhayre					+
			Check.		NONE			H28A-NA-7-09-1	Page 1
Modification	Date	Name	Standard		Origin	Crea. for	Crea. by		29 Pg.

LEGEND

DT PREFIX	SEQUENTIAL COUNTER	FUCNTION CODE
FU	1	A

FU: Fuse

MS: Motor Starter

OL: Overload

MTR: Motor

LS: Limit Switch

CR: Control Relay

TB: Terminal Block

LT: Pilot Light

PB: Push Button

SS: Selector Switch

POT: Potentiometer

CDT: Conduit

C: Cable

MP: Main Panel (Mounting Location)

HMI: Human Machine Interface (Mounting Location)

HV MP: High Voltage components in Main Panel

HD KIT: Items required for Head Kit

EXT: Externally mounted components

OP OFV: Option - Out Feed Vise

OP CC: Option - Chip Conveyor

OP M&C: Option - Mist & Coolant

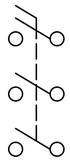
OP C: Option - Coolant

MS: Motor Starter / Contactor

CR: Relay Coil

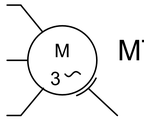
FU: Fusible Terminal

FU: Fuse


Disc: Disconnect Switch

OL: Overload

TR: Transformer



MTR: Motor, 3 Phase

MTR: Motor, AC Single Phase

Contact, Normally Closed

Contact, Normally Open

TB: Terminal

Wire Definition

LS: Normally Closed

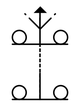
LS: Normally Open

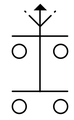
SS: Normally Closed, Key Operated

SS: Normally Open, Key Operated

SS: 2 Position, with 1 NC

SS: 2 Position, with 1 NO


SS: 3 Position Maintained, with 2NC


SS: 3 Position Maintained, with 2NO

PB: Emergency Stop

PB: Push Button, with NC

PB: Push Button, with NO

P: Proximity Switch NPN

SOL: Solonoid

Pilot Light

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N/A
NONE
H28A-NA-7-09-1

H28A Electrical Doc.

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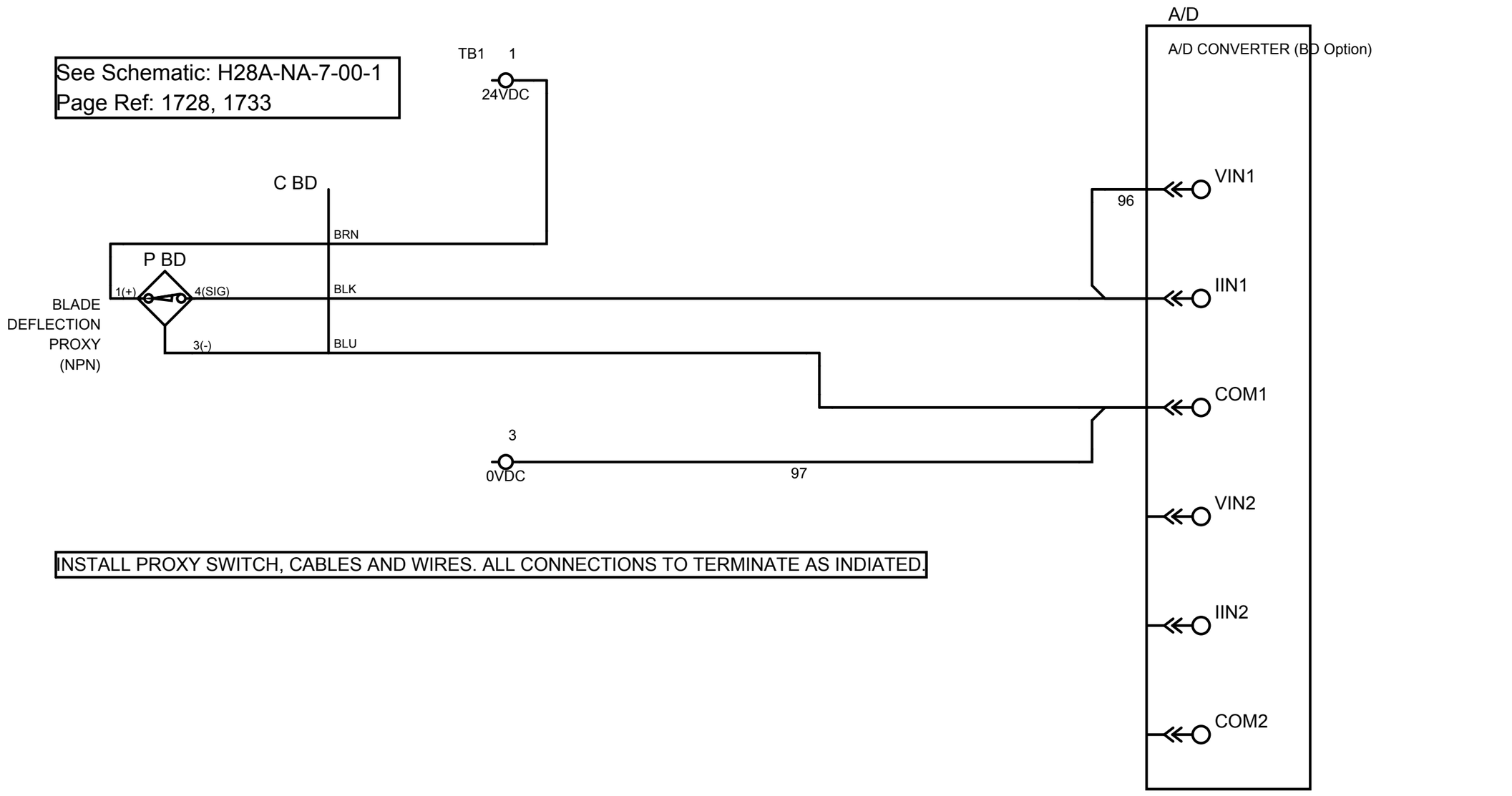
www.hydmech.com

INFORMATION

Modification date 03/17/2005
Modified by jhayre

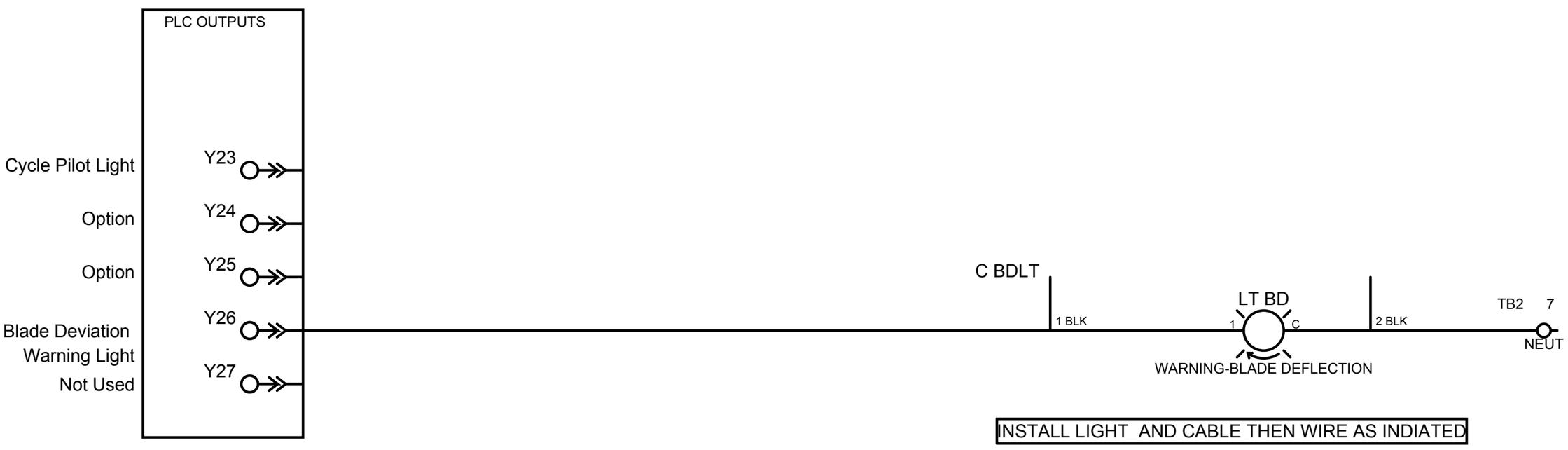
Check.
Form

See Schematic: H28A-NA-7-00-1
Page Ref: 1728, 1733



INSTALL PROXY SWITCH, CABLES AND WIRES. ALL CONNECTIONS TO TERMINATE AS INDIATED.

Only Partial OUTPUTS of PLC Shown



INSTALL LIGHT AND CABLE THEN WIRE AS INDIATED

H28A Electrical Doc. Blade Deflection Option -	HYD·MECH GROUP LTD. www.hydmech.com	Modification 04/02/2012 jhayre	Dwg. no. H28A-NA-7-09-1	
		Schematic page	Blade Deflection Option -	Page 25 Pg. 29

Parts usage indication

DIN_TNP_30

Part number	Qty	LTH	Designation	DT		Manufacturer	Function text	X-ref.
372437	1		Module, Input, 12bit, 2 Ch, Analog	A/D		Mitsubishi	A/D CONVERTER (BD Op	2517
372759	2		Marker Bar, Unprinted, Used on M12 Cable	C BD			BLADE DEFLECTION	2506
370101	1	394	Cable,10M, M8, Straight, 3 Wire	C BD			BLADE DEFLECTION	2506
360735	1		Fitting, Strain Relief, 16/3 & 16/4,	C BD			BLADE DEFLECTION	2506
360735	1		Fitting, Strain Relief, 16/3 & 16/4,	C BDLT			BLADE DEFLECTION LIG	2534
370145	1	331	Cable, CE 18 Awg, 4 Con,	C BDLT			BLADE DEFLECTION LIG	2534
370072	1		Bulb, Light, 120V	LT BD			WARNING-BLADE DEFLEC	2535
370020	1		Beacon, Orange Steady Light, c/w Bulb	LT BD			WARNING-BLADE DEFLEC	2535
372435	1		Sensor, Proximity, Analog, M8 Connector	P BD			BLADEDEFLECTIONPROXY	2508

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7000

Device list

DIN_PSL_50_4

DT	Qty	Length	Designation 1	Designation 2	Part Number	Colomn Intentionally left blank	Colomn Intentionally left blank	Page/path	Function text
A/D	1		Module, Input, 12bit, 2 Ch, Analog		372437			2517	A/D CONVERTER (BD Option)
C BD	1	394.0	Cable,10M, M8, Straight, 3 Wire		370101			2506	BLADE DEFLECTION
	2		Marker Bar, Unprinted, Used on M12 Cable		372759				
	1		Fitting, Strain Relief, 16/3 & 16/4,		360735				
C BDLT	1	330.0	Cable, CE 18 Awg, 4 Con,	Oil Resistant	370145			2534	BLADE DEFLECTION LIGHT
	1		Fitting, Strain Relief, 16/3 & 16/4,		360735				
LT BD	1		Beacon, Orange Steady Light, c/w Bulb		370020			2535	WARNING-BLADE DEFLECTION
	1		Bulb, Light, 120V		370072				
P BD	1		Sensor, Proximity, Analog, M8 Connector		372435			2508	BLADEDEFLECTIONPROXY(NPN)
PLC O/P.1								2537	PLC OUTPUTS
TB1									
TB2									

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from		Length x mm²(AWG) color Cable	Wire	Wire des./definition	Parts From, Wire, To	to		More info Jumper	Conductor	Page	Conductor End	LENGTH (Inches)
A/D:IIN1	MP		96	18 AWG, BU		A/D:VIN1	MP	N	N	2517;	RF/RF	JMP
TB1 :3	MP		97	16 AWG, BU		A/D:COM1	MP	N	N	2511	T/RF	
A/D:IIN1	MP	C BD		, BLK		P BD:4(SIG)	HD KIT	N	N	2508	RF	
A/D:COM1	MP	C BD		, BLU		P BD:3(-)	HD KIT	N	N	2508	T	
TB1 :1	MP	C BD		, BRN		P BD:1(+)	HD KIT	N	N	2508	T	
TB2 :7	MP	C BDLT		, 2 BLK		LT BD:C	EXT	N	N	2535	T	
PLC O/P.1:Y26	MP	C BDLT		, 1 BLK		LT BD:1	EXT	N	N	2532;	RF	

from	Length x mm²(AWG) color Cable	Wire	Wire des./definition	Parts from, wire, to	to	More info Jumper	Conductor	Page	Conductor End	LENGTH (Inches)

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H28A Electrical Doc.
H28A-NA-7-09-1
Blade Deflection Option

HYD·MECH GROUP LTD.
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HYD-MECH The Rock Solid Solution.

Wire list: (96 -)

Unfiltered Wire List

Modification date 04/02/2012
Modified by jhayre

Check.
Form DIN_VRL_70_5_Inch

Cable overview

DIN_KBU_35

Cable	PART NUMBER	Length	Cond	DESCRIPTION		COMMENTS
C BD	370101	394.	3	Cable,10M, M8, Straight, 3 Wire		BLADE DEFLECTION
	372759			Marker Bar, Unprinted, Used on M12 Cable		
	360735			Fitting, Strain Relief, 16/3 & 16/4,		
C BDLT	370145	330.	4	Cable, CE 18 Awg, 4 Con,	Oil Resistant	BLADE DEFLECTION LIGHT
	360735			Fitting, Strain Relief, 16/3 & 16/4,		

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1500

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1101

DIN_DKB_1

HYD·MECH GROUP LTD.
1079 PARKINSON ROAD, P.O. BOX 1659
WOODSTOCK, ONTARIO, CANADA, N4S 0A9
Tel. 1-877-237-0914
Fax. 1 (519) 539-5126
eMAIL. info@hydmech.com

Created on : 01/10/2005
Edited on : 10/01/2012
From (abbr.) : jhayre

Company/customer : N/A

Drawing number : H28ASV-NA-7-011A-1

Project name : H28A Laser Option Rev A
Make : H28A & H32A Machines
Type : H
Mounting site : N/A
Responsible for project : JSH

Number of pages : 42

REV.	Affected pages	Modifications	Date	Editor
		W00-0468	05/11/2012	jhayre

			Date	09/01/2005	N/A	HYD·MECH GROUP LTD.	Title page		=
			Edit.	jhayre					+
			Check.		NONE			H28ASV-NA-7-011A-1	Page 1
Modification	Date	Name	Standard		Origin	Crea. for	Crea. by		42 Pg.

LEGEND

DT PREFIX	SEQUENTIAL COUNTER	FUCNTION CODE
FU	1	A

FU: Fuse

MS: Motor Starter

OL: Overload

MTR: Motor

LS: Limit Switch

CR: Control Relay

TB: Terminal Block

LT: Pilot Light

PB: Push Button

SS: Selector Switch

POT: Potentiometer

CDT: Conduit

C: Cable

MP: Main Panel (Mounting Location)

HMI: Human Machine Interface (Mounting Location)

HV MP: High Voltage components in Main Panel

HD KIT: Items required for Head Kit

EXT: Externally mounted components

OP OFV: Option - Out Feed Vise

OP CC: Option - Chip Conveyor

OP M&C: Option - Mist & Coolant

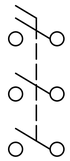
OP C: Option - Coolant

MS: Motor Starter / Contactor

CR: Relay Coil

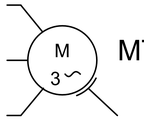
FU: Fusible Terminal

FU: Fuse


Disc: Disconnect Switch

OL: Overload

TR: Transformer



MTR: Motor, 3 Phase

MTR: Motor, AC Single Phase

Contact, Normally Closed

Contact, Normally Open

TB: Terminal

Wire Definition

LS: Normally Closed

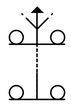
LS: Normally Open

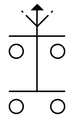
SS: Normally Closed, Key Operated

SS: Normally Open, Key Operated

SS: 2 Position, with 1 NC

SS: 2 Position, with 1 NO


SS: 3 Position Maintained, with 2NC


SS: 3 Position Maintained, with 2NO

PB: Emergency Stop

PB: Push Button, with NC

PB: Push Button, with NO

P: Proximity Switch NPN

SOL: Solonoid

Pilot Light

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N/A
NONE
H28ASV-NA-7-011A-1

H28A & H32A SV Electrical Doc.

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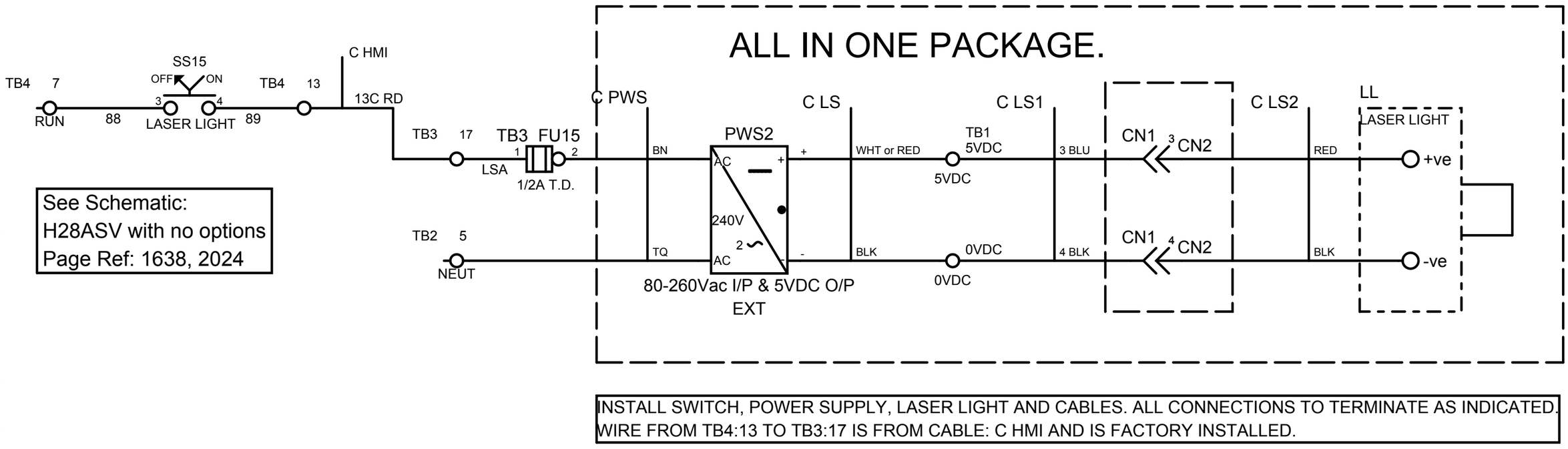
www.hydmech.com

INFORMATION

Modification date 03/17/2005
Modified by jhayre
Check.
Form



INSTALL SWITCH, POWER SUPPLY, LASER LIGHT AND CABLES. ALL CONNECTIONS TO TERMINATE AS INDICATED.
WIRE FROM TB4:13 TO TB3:17 IS FROM CABLE: C HMI AND IS FACTORY INSTALLED.

THE FOLLOWING ITEMS ARE ALL INCLUDED IN PART NUMBER 815726:

C PWS

PWS2

C LS

C LS1

LL

Parts usage indication

DIN_TNP_30

Part number	Qty	LTH	Designation	DT	Function text	X-ref
370094	1	197	Cable, 5M, 4 Wire, with Straight Female M12 Connector	C LS1	LASER LIGHT	2303
372759	2		Marker Bar, Unprinted, Used on M12 Cable	C LS1	LASER LIGHT	2303
373323	1		Sensor Plug Connector, 4-pos. Male Connector, Straight Version	CN2		
391340	1		Label Danger, Laser Radiation	LL	LASER LIGHT	2307
815726	1		Light, Laser, 90-240VAC + PWS + Cables	LL	LASER LIGHT	2307
370576	1		Contact Block, Body & 1 NO	SS15	LASER LIGHT	2303
372626	1		Switch, Selector, 2 Position Maintained,	SS15	LASER LIGHT	2303
392480	1		Label, Overlay, Laser, On, Off	SS15	LASER LIGHT	2303

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3200

Previous page
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Parts usage indication

DIN_TNP_30

Part number	Qty	LTH	Designation		DT	Function text	X-ref
372802	1		Terminal, Fusible, (6.3x32), 400V,	ST Spring Cage	TB3 :FU15		2304
371434	1		Fuse, Time Delay, 0.5 AMP	Glass 1/4 x 1-1/4	TB3 :FU15		2304
372756	1		Terminal Markers, Unprinted,	Used with ZFK Fuse Terminals	TB3 :FU15		2304

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7000

Device list

DIN_PSL_50_4

DT	Qty	Length	Designation 1	Designation 2	Part Number	Colomn Intentionally left blank	Colomn Intentionally left blank	Page/path	Function text
C LS		0.0						2303	LASER
C LS1	1	197.0	Cable, 5M, 4 Wire, with	Straight Female M12 Connector	370094			2303	LASER LIGHT
	2		Marker Bar, Unprinted, Used on M12 Cable		372759				
C LS2								2303	LASER
C PWS								2303	POWER CABLE FOR PWS2
CN1									
CN2	1		Sensor Plug Connector, 4-pos.	Male Connector, Straight Version	373323				
LL	1		Light, Laser, 90-240VAC + PWS + Cables		815726			2307	LASER LIGHT
	1		Label Danger, Laser Radiation		391340				
PWS2								2304	80-260Vac I/P & 5VDC O/P
SS15	1		Switch, Selector, 2 Position Maintained,		372626			2303	LASER LIGHT
	1		Contact Block, Body & 1 NO		370576				
	1		Label, Overlay, Laser, On, Off		392480				
TB1									
TB2									
TB3									
TB4									

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from		Length x mm²(AWG) color Cable	Wire	Wire des./definition	Parts From, Wire, To	to		More info Jumper	Conductor	Page	Conductor End	LENGTH (Inches)
TB4 :7	HMI		88	16 AWG, RD		SS15:3	HMI	N	N	2303	T/*	
SS15:4	HMI		89	16 AWG, RD		TB4 :13	HMI	N	N	2303	*/T	
TB3 :17	MP		LSA	16 AWG, RD		TB3 :FU15:1	MP	N	Y	2304	T/T	
TB1:0VDC		C LS		, BLK		PWS2:-	EXT	N	N	2304	T	??
TB1:5VDC		C LS		, WHT or RED		PWS2:+	EXT	N	N	2304	T	??
TB1:0VDC		C LS1		, 4 BLK		CN1:4		N	N	2306	T/T	
TB1:5VDC		C LS1		, 3 BLU		CN1:3		N	N	2304	T/T	
CN2:3		C LS2		, RED		LL:+ve	EXT	N	N	;2304		
CN2:4		C LS2		, BLK		LL:-ve	EXT	N	N	;2304		
TB2 :5	MP	C PWS		, TQ		PWS2:_1	EXT	N	N	2306		
TB3 :FU15:2	MP	C PWS		, BN		PWS2:_0	EXT	N	N	2304		

from	Length x mm²(AWG) color Cable	Wire	Wire des./definition	Parts from, wire, to	to	More info Jumper	Conductor	Page	Conductor End	LENGTH (Inches)

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H28A & H32A SV Electrical Doc.
H28ASV-NA-7-011A-1
Laser Option

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HYD-MECH The Rock Solid Solution.

Wire list: (88 -)

Unfiltered Wire List

Modification date 10/01/2012
Modified by jhayre

Check.
Form DIN_VRL_70_5_Inch

Page 700

Cable overview

DIN_KBU_35

Cable	PART NUMBER	Length	Cond	DESCRIPTION		COMMENTS
C LS		0.0	4			LASER
C LS2						LASER
C PWS						POWER CABLE FOR PWS2
C LS1	370094 372759	197.	4	Cable, 5M, 4 Wire, with Marker Bar, Unprinted, Used on M12 Cable	Straight Female M12 Connector	LASER LIGHT

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1500

HYD·MECH GROUP LTD.
1079 PARKINSON ROAD, P.O. BOX 1659
WOODSTOCK, ONTARIO, CANADA, N4S 0A9
Tel. 1-877-237-0914
Fax. 1 (519) 539-5126
eMAIL. info@hydmech.com

Created on : 01/10/2005
Edited on : 09/21/2012
From (abbr.) : jhayre

Company/customer : N/A

Drawing number : H28A-NA-7-024B-1

Project name : H28A Anti-Option 6' Canted Head Rev B
Make : H28A Machines
Type : H
Mounting site : N/A
Responsible for project : JSH

Number of pages : 31

REV.	Affected pages	Modifications	Date	Editor
B	-	ECN:W00-0468	09/21/2012	jhayre

LEGEND

DT PREFIX	SEQUENTIAL COUNTER	FUCNTION CODE
FU	1	A

FU: Fuse

MS: Motor Starter

OL: Overload

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LS: Limit Switch

CR: Control Relay

TB: Terminal Block

LT: Pilot Light

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SS: Selector Switch

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HD KIT: Items required for Head Kit

EXT: Externally mounted components

OP OFV: Option - Out Feed Vise

OP CC: Option - Chip Conveyor

OP M&C: Option - Mist & Coolant

OP C: Option - Coolant

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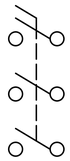
CR: Relay Coil

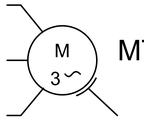
FU: Fusible Terminal

FU: Fuse


Disc: Disconnect Switch

OL: Overload

TR: Transformer



MTR: Motor, 3 Phase

MTR: Motor, AC Single Phase

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Contact, Normally Open

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Wire Definition

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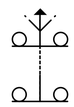
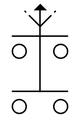
SS: 2 Position, with 1 NO


SS: 3 Position Maintained, with 2NC


SS: 3 Position Maintained, with 2NO

PB: Emergency Stop

PB: Push Button, with NC

PB: Push Button, with NO

P: Proximity Switch NPN

SOL: Solonoid

Pilot Light

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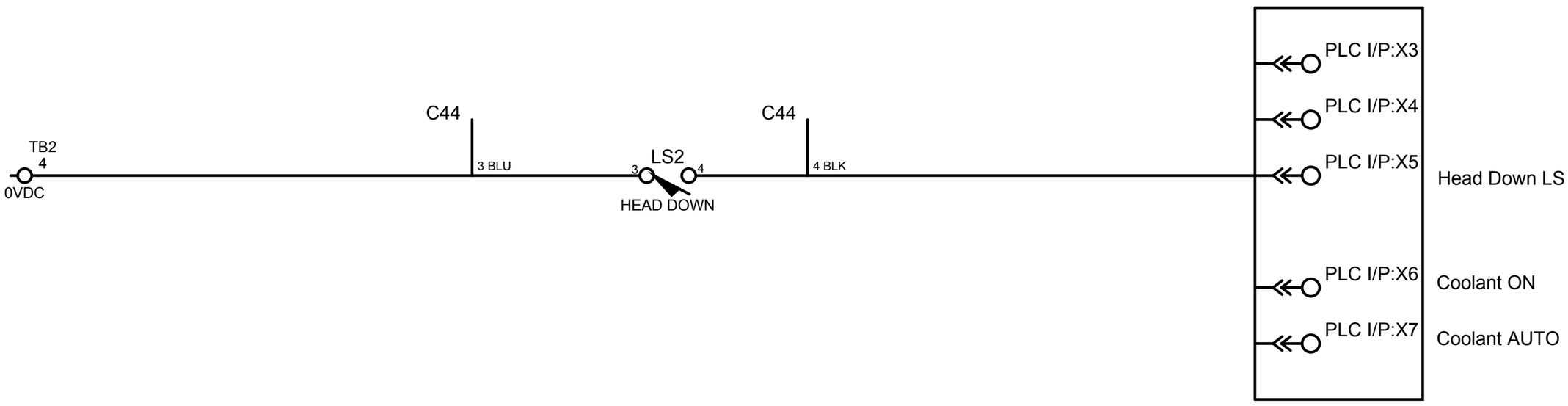
3

N/A NONE H28A-NA-7-024B-1	H28A Electrical Doc.	HYD·MECH GROUP LTD. www.hydmech.com	HYD-MECH The RockSolid Solution	INFORMATION	= / +
				Modification date 03/17/2005 Modified by jhayre	Check. Form
					Page 9

ONLY PARTIAL INPUTS OF PLC SHOWN



H28A Electrical Doc. Anti-Option 6' Canted Head -	HYD·MECH GROUP LTD. www.hydmech.com	Modification 09/21/2012 jhayre	Dwg. no. H28A-NA-7-024B-1		HYD-MECH The Rock Solid Solution.
		Schematic page	Anti-Option 6' Canted Head -	Page 17 Pg. 31	

Parts usage indication

DIN_TNP_30

Part number	Qty	LTH	Designation	DT		Manufacturer	Function text	X-ref.
370098	1	310	Cable, 10M, 4 Wire, with	C44			HEAD DOWN	1711
372759	2		Marker Bar, Unprinted, Used on M12 Cable	C44			HEAD DOWN	1711
373314	1		Lever, Roller, Thermoplastic	LS2			HEAD DOWN	1712
372524	1		Switch, Limit, 1NO & 1NC, M12 Connector	LS2			HEAD DOWN	1712
373313	1		Switch, Actuator, Rotary Head	LS2			HEAD DOWN	1712

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Previous page
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Device list

DIN_PSL_50_4

DT	Qty	Length	Designation 1	Designation 2	Part Number	Colomn Intentionally left blank	Colomn Intentionally left blank	Page/path	Function text
C44	1	310.0	Cable, 10M, 4 Wire, with	Straight Female M12 Connector	370098			1711	HEAD DOWN
	2		Marker Bar, Unprinted, Used on M12 Cable		372759				
LS2	1		Switch, Limit, 1NO & 1NC, M12 Connector	1NO & 1NC, M12 Connector	372524			1712	HEAD DOWN
	1		Switch, Actuator, Rotary Head	without lever, Spring Return	373313				
	1		Lever, Roller, Thermoplastic		373314				
PLC I/P									PLC INPUTS
TB2									

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H28A Electrical Doc.
H28A-NA-7-024B-1
Anti-Option 6' Canted Head

HYD·MECH GROUP LTD.
www.hydmech.com

HYD-MECH The RockSolid Solution

Device list: (C44 - TB2)

Modification date 09/21/2012
Modified by jhayre
Check.
Form DIN_PSL_50_4_Customer

from		Length x mm²(AWG) color Cable	Wire	Wire des./definition	Parts From, Wire, To	to		More info Jumper	Conductor	Page	Conductor End	LENGTH (Inches)
PLC I/P:X5	MP	C44		, 4 BLK		LS2:4	EXT	N	N	1712	RF	
TB2 :4	MP	C44		, 3 BLU		LS2:3	EXT	N	N	1712	T	

from	Length x mm²(AWG) color Cable	Wire	Wire des./definition	Parts from, wire, to	to	More info Jumper	Conductor	Page	Conductor End	LENGTH (Inches)

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H28A Electrical Doc.
H28A-NA-7-024B-1
Anti-Option 6' Canted Head

HYD·MECH GROUP LTD.
www.hydmech.com

HYD-MECH The Rock Solid Solution.

Wire list: (-)

Unfiltered Wire List

Modification date 09/21/2012
Modified by jhayre

Check.
Form DIN_VRL_70_5_Inch

Page 700

Cable overview

DIN_KBU_35

Cable	PART NUMBER	Length	Cond	DESCRIPTION	COMMENTS
C44	370098 372759	310.	4	Cable, 10M, 4 Wire, with Straight Female M12 Connector Marker Bar, Unprinted, Used on M12 Cable	HEAD DOWN

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1100

HYD·MECH GROUP LTD.
1079 PARKINSON ROAD, P.O. BOX 1659
WOODSTOCK, ONTARIO, CANADA, N4S 0A9
Tel. 1-877-237-0914
Fax. 1 (519) 539-5126
eMAIL. info@hydmech.com

Created on : 01/10/2005
Edited on : 09/21/2012
From (abbr.) : jhayre

Company/customer : N/A

Drawing number : H28A-NA-7-025B-1

Project name : H28A 6' Canted Head Option Rev B
Make : H28A Machines
Type : H
Mounting site : N/A
Responsible for project : JSH

Number of pages : 31

REV.	Affected pages	Modifications	Date	Editor
B	-	ECN:W00-0468	09/21/2012	jhayre

			Date	09/21/2012	N/A	HYD·MECH GROUP LTD.	Title page		=
			Edit.	jhayre					+
			Check.		NONE			H28A-NA-7-025B-1	Page 1
Modification	Date	Name	Standard		Origin	Crea. for	Crea. by		31 Pg.

LEGEND

DT PREFIX	SEQUENTIAL COUNTER	FUCNTION CODE
FU	1	A

FU: Fuse

MS: Motor Starter

OL: Overload

MTR: Motor

LS: Limit Switch

CR: Control Relay

TB: Terminal Block

LT: Pilot Light

PB: Push Button

SS: Selector Switch

POT: Potentiometer

CDT: Conduit

C: Cable

MP: Main Panel (Mounting Location)

HMI: Human Machine Interface (Mounting Location)

HV MP: High Voltage components in Main Panel

HD KIT: Items required for Head Kit

EXT: Externally mounted components

OP OFV: Option - Out Feed Vise

OP CC: Option - Chip Conveyor

OP M&C: Option - Mist & Coolant

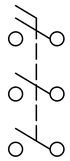
OP C: Option - Coolant

MS: Motor Starter / Contactor

CR: Relay Coil

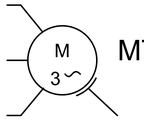
FU: Fusible Terminal

FU: Fuse


Disc: Disconnect Switch

OL: Overload

TR: Transformer



MTR: Motor, 3 Phase

MTR: Motor, AC Single Phase

Contact, Normally Closed

Contact, Normally Open

TB: Terminal

Wire Definition

LS: Normally Closed

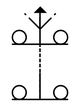
LS: Normally Open

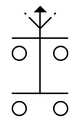
SS: Normally Closed, Key Operated

SS: Normally Open, Key Operated

SS: 2 Position, with 1 NC

SS: 2 Position, with 1 NO


SS: 3 Position Maintained, with 2NC


SS: 3 Position Maintained, with 2NO

PB: Emergency Stop

PB: Push Button, with NC

PB: Push Button, with NO

P: Proximity Switch NPN

SOL: Solonoid

Pilot Light

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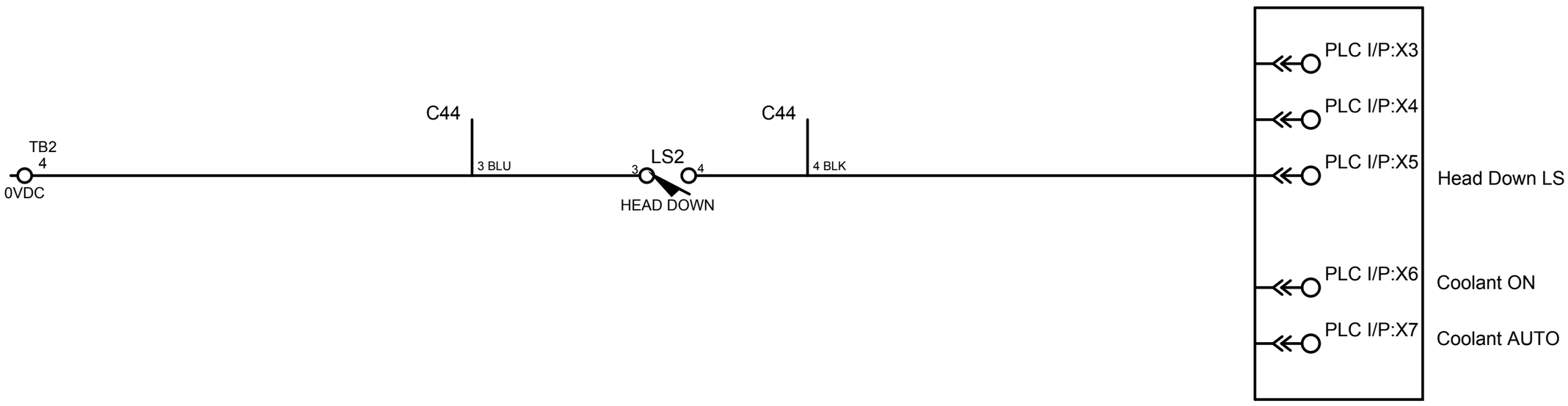
ONLY PARTIAL INPUTS OF PLC SHOWN



Parts usage indication

DIN_TNP_30

Part number	Qty	LTH	Designation	DT		Manufacturer	Function text	X-ref.
372759	2		Marker Bar, Unprinted, Used on M12 Cable	C44			HEAD DOWN	1711
370098	1	390	Cable, 10M, 4 Wire, with	C44			HEAD DOWN	1711
373313	1		Switch, Actuator, Rotary Head	LS2			HEAD DOWN	1712
372524	1		Switch, Limit, 1NO & 1NC, M12 Connector	LS2			HEAD DOWN	1712
373314	1		Lever, Roller, Thermoplastic	LS2			HEAD DOWN	1712

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H28A Electrical Doc.
H28A-NA-7-025B-1
6' Canted Head Option

HYD·MECH GROUP LTD.
www.hydmech.com

Parts list: (372759 - 373314)

COMPONENTS; NO TERMINALS

Modification date 09/21/2012
Modified by jhayre

Check.
Form DIN_TNP_30_Customer

Device list

DIN_PSL_50_4

DT	Qty	Length	Designation 1	Designation 2	Part Number	Colomn Intentionally left blank	Colomn Intentionally left blank	Page/path	Function text
C44	1	390.0	Cable, 10M, 4 Wire, with	Straight Female M12 Connector	370098			1711	HEAD DOWN
	2		Marker Bar, Unprinted, Used on M12 Cable		372759				
LS2	1		Switch, Limit, 1NO & 1NC, M12 Connector	1NO & 1NC, M12 Connector	372524			1712	HEAD DOWN
	1		Switch, Actuator, Rotary Head	without lever, Spring Return	373313				
	1		Lever, Roller, Thermoplastic		373314				
PLC I/P									PLC INPUTS
TB2									

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700

from		Length x mm²(AWG) color Cable	Wire	Wire des./definition	Parts From, Wire, To	to		More info Jumper	Conductor	Page	Conductor End	LENGTH (Inches)
PLC I/P:X5	MP	C44		, 4 BLK		LS2:4	EXT	N	N	1712	RF	
TB2 :4	MP	C44		, 3 BLU		LS2:3	EXT	N	N	1712	T	

from	Length x mm²(AWG) color Cable	Wire	Wire des./definition	Parts from, wire, to	to	More info Jumper	Conductor	Page	Conductor End	LENGTH (Inches)

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H28A Electrical Doc.
H28A-NA-7-025B-1
6' Canted Head Option

HYD·MECH GROUP LTD.
www.hydmech.com

HYD-MECH The Rock Solid Solution.

Wire list: (-)

Unfiltered Wire List

Modification date 09/21/2012
Modified by jhayre

Check.
Form DIN_VRL_70_5_Inch

Cable overview

DIN_KBU_35

Cable	PART NUMBER	Length	Cond	DESCRIPTION	COMMENTS
C44	370098 372759	390.	4	Cable, 10M, 4 Wire, with Straight Female M12 Connector Marker Bar, Unprinted, Used on M12 Cable	HEAD DOWN

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1500

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1100

HYD·MECH GROUP LTD.
1079 PARKINSON ROAD, P.O. BOX 1030
WOODSTOCK, ONTARIO, CANADA, N4S 8A4
Tel. 1-877-237-0914
Fax. 1 (519) 539-5126
eMAIL. info@hydmech.com

Created on : 01/10/2005
Edited on : 12/06/2012
From (abbr.) : jhayre

Company/customer : N/A

Drawing number : H28ASV-NA-7-017-1

Project name : H28ASV SHLS OPTION
Make : H28A & H32A machine
Type : H
Mounting site : N/A
Responsible for project : JSH

Number of pages : 38

REV.	Affected pages	Modifications	Date	Editor
		-	03/19/2007	-

			Date	09/01/2005	N/A	HYD·MECH GROUP LTD.	Title page		=
			Edit.	jhayre					+
			Check.		NONE			H28ASV-NA-7-017-1	Page 1
Modification	Date	Name	Standard		Origin	Crea. for	Crea. by		38 Pg.

LEGEND

DT PREFIX	SEQUENTIAL COUNTER	FUCNTION CODE
FU	1	A

FU: Fuse

MS: Motor Starter

OL: Overload

MTR: Motor

LS: Limit Switch

CR: Control Relay

TB: Terminal Block

LT: Pilot Light

PB: Push Button

SS: Selector Switch

POT: Potentiometer

CDT: Conduit

C: Cable

MP: Main Panel (Mounting Location)

HMI: Human Machine Interface (Mounting Location)

HV MP: High Voltage components in Main Panel

HD KIT: Items required for Head Kit

EXT: Externally mounted components

OP OFV: Option - Out Feed Vise

OP CC: Option - Chip Conveyor

OP M&C: Option - Mist & Coolant

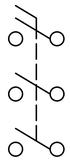
OP C: Option - Coolant

MS: Motor Starter / Contactor

CR: Relay Coil

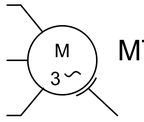
FU: Fusible Terminal

FU: Fuse


Disc: Disconnect Switch

OL: Overload

TR: Transformer



MTR: Motor, 3 Phase

MTR: Motor, AC Single Phase

Contact, Normally Closed

Contact, Normally Open

TB: Terminal

Wire Definition

LS: Normally Closed

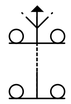
LS: Normally Open

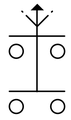
SS: Normally Closed, Key Operated

SS: Normally Open, Key Operated

SS: 2 Position, with 1 NC

SS: 2 Position, with 1 NO


SS: 3 Position Maintained, with 2NC


SS: 3 Position Maintained, with 2NO

PB: Emergency Stop

PB: Push Button, with NC

PB: Push Button, with NO

P: Proximity Switch NPN

SOL: Solonoid

Pilot Light

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N/A NONE H28ASV-NA-7-017-1	LIMIT SWITCH OPTION ONLY	HYD-MECH GROUP LTD. www.hydmech.com	HYD-MECH The RockSolid Solution	INFORMATION Modification date 03/17/2005 Check. Modified by jhayre Form

PLC O/P.1

PLC OUTPUTS

NEUT /

Shuttle Fast

Y12

Wire from CONVEYOR CONTROL PANEL (CCP)

FST (CCP)

TB1 FST

FST

C13

BLK

SOL 13

WHT

TB2 4

NEUT

Shuttle REV

Y14

Wire from CONVEYOR CONTROL PANEL (CCP)

REV (CCP)

REV

REV

C11

BLK

SOL 11

WHT

Shuttle FWD

Y15

FWD2

FWD2

C12

BLK

SOL 12

WHT

5

NEUT

C19

1 BRN

LS19

1

2

SHUTTLE HOME

2 WHT

TB1 FWD1

FWD1

Wire from CONVEYOR CONTROL PANEL (CCP)

FWD (CCP)

Shuttle Vise Close

Y20

Wire from CONVEYOR CONTROL PANEL (CCP)

SVC (CCP)

SVC

SVC

C21

BLK

SOL 21

WHT

7

NEUT

TERMINALS LOCATED IN THE CONVEYOR CONTROL PANELS

LIMIT SWITCH OPTION ONLY SHUTTLE HOME L/S Option -	HYD·MECH GROUP LTD. www.hydmech.com	Modification 09/21/2012 jhayre	Dwg. no. H28ASV-NA-7-017-1	
		Schematic page	SHUTTLE HOME L/S Option -	Page 17 Pg. 38

For machines built with 24vdc control systems and require the powered conveyor option, the following must be changed on the conveyor control electrical panel:

1.Replace 120Vac control relays with 24Vdc control relays.

2.Replace white wires with D-BL wire or use blue heat shrink or blue electrical tape for all neutral wires.

3.Use blue electrical tape on cable that shows white wire.

4.Replace terminal label NEUT with terminal label 0VDC.

Parts usage indication

DIN_TNP_30

Part number	Qty	LTH	Designation	DT	Function text	X-ref
372759	2		Marker Bar, Unprinted, Used on M12 Cable	C19	SHUTTLE HOME	1725
370098	1	230	Cable, 10M, 4 Wire, with Straight Female M12 Connector	C19	SHUTTLE HOME	1725
372524	1		Switch, Limit, 1NO & 1NC, M12 Connector 1NO & 1NC, M12 Connector	LS19	SHUTTLE HOME	1726
373312	1		Switch, Actuator, Steel Roller Plunger	LS19	SHUTTLE HOME	1726

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LIMIT SWITCH OPTION ONLY
H28ASV-NA-7-017-1
SHUTTLE HOME L/S Option

HYD·MECH GROUP LTD.
www.hydmech.com

Parts list: (372759 - 373312)

Modification date 12/06/2012
Modified by jhayre
Check.
Form DIN_TNP_30_D1&D2_Customer

Parts usage indication

DIN_TNP_30

Part number	Qty	LTH	Designation	DT	Function text	X-ref
372755	1		Terminal Markers, Marcom	TB1:FST		1715
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB1:FST		1715
372755	1		Terminal Markers, Marcom	TB1:FWD1		1726
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB1:FWD1		1726
372755	1		Terminal Markers, Marcom	TB1:FWD2		1723
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB1:FWD2		1723
372755	1		Terminal Markers, Marcom	TB1:REV		1720
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB1:REV		1720
372755	1		Terminal Markers, Marcom	TB1:SVC		1730
372710	1		Terminal, 20-10 AWG, 600V, CSA=40A, UL=30A, Beige	TB1:SVC		1730

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LIMIT SWITCH OPTION ONLY
H28ASV-NA-7-017-1
SHUTTLE HOME L/S Option

HYD·MECH GROUP LTD.
www.hydmech.com

Parts list: (372755 - 372710)

Modification date 12/06/2012
Modified by jhayre
Check.
Form DIN_TNP_30_D1&D2_Customer

Device list

DIN_PSL_50_4

DT	Qty	Length	Designation 1	Designation 2	Part Number	Colomn Intentionally left blank	Colomn Intentionally left blank	Page/path	Function text
C11		81.0						1720	SHUTTLE REVERSE
C12		74.0						1723	SHUTTLE FORWARD
C13		78.0						1715	SHUTTLE FAST
C19	1	230.0	Cable, 10M, 4 Wire, with	Straight Female M12 Connector	370098			1725	SHUTTLE HOME
	2		Marker Bar, Unprinted, Used on M12 Cable		372759				
C21		83.0						1730	SHUTTLE VISE CLOSE
LS19	1		Switch, Limit, 1NO & 1NC, M12 Connector	1NO & 1NC, M12 Connector	372524			1726	SHUTTLE HOME
	1		Switch, Actuator, Steel Roller Plunger		373312				
PLC O/P.1								1737	PLC OUTPUTS
SOL 11								1720	SHUTTLE REVERSE
SOL 12								1723	SHUTTLE FORWARD
SOL 13								1715	SHUTTLE FAST
SOL 21								1730	SHUTTLE VISE CLOSE
TB1									
TB2									

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from	Length x mm²(AWG) color: Cable	Wire	Wire des./definition	Parts From, Wire, To	to	More info: Jumper	Conductor	Page	Conductor End	LENGTH (Inches)
PLC O/P.1:Y14 MP			, BLK		TB1:REV	N	N	1737;	RF	8
PLC O/P.1:Y20 MP			, BLK		TB1:SVC	N	N	1737;	RF	7
PLC O/P.1:Y15 MP			, BLK		TB1:FWD2	N	N	1737;	RF	7
PLC O/P.1:Y12 MP			, BLK		TB1:FST	N	N	1737;	RF	8
TB2 :5 MP			,		TB2 :4 MP	Y	N	1723		
TB2 :7 MP			,		TB2 :5 MP	Y	N	1730		
TB1:REV	C11		, BLK		SOL 11:_0 EXT	N	N	1720		
TB2 :5 MP	C11		, WHT		SOL 11:_1 EXT	N	N	1723	T	16
TB1:FWD2	C12		, BLK		SOL 12:_0 EXT	N	N	1723		
TB2 :5 MP	C12		, WHT		SOL 12:_1 EXT	N	N	1723	T	16
TB1:FST	C13		, BLK		SOL 13:_0 EXT	N	N	1715		
TB2 :4 MP	C13		, WHT		SOL 13:_1 EXT	N	N	1715	T	15
TB1:FWD1	C19		, 2 WHT		LS19:2 EXT	N	N	1726		
TB1:FWD2	C19		, 1 BRN		LS19:1 EXT	N	N	1723		
TB1:SVC	C21		, BLK		SOL 21:_0 EXT	N	N	1730		
TB2 :7 MP	C21		, WHT		SOL 21:_1 EXT	N	N	1730		

from	Length x mm²(AWG) color: Cable	Wire	Wire des./definition	Parts from, wire, to	to	More info: Jumper	Conductor	Page	Conductor End	LENGTH (Inches)

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LIMIT SWITCH OPTION ONLY
H28ASV-NA-7-017-1
SHUTTLE HOME L/S Option

HYD·MECH GROUP LTD.
www.hydmech.com

HYD-MECH The Rock Solid Solution.

Wire list: (-)

Unfiltered Wire List

Modification date 12/06/2012
Modified by jhayre

Check.
Form DIN_VRL_70_5_Inch

Cable overview

DIN_KBU_35

Cable	PART NUMBER	Length	Cond	DESCRIPTION		COMMENTS
C11		81.0	3			SHUTTLE REVERSE
C12		74.0	3			SHUTTLE FORWARD
C13		78.0	3			SHUTTLE FAST
C21		83.0	3			SHUTTLE VISE CLOSE
C19	370098	230.	4	Cable, 10M, 4 Wire, with	Straight Female M12 Connector	SHUTTLE HOME
	372759			Marker Bar, Unprinted, Used on M12 Cable		

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LIMIT SWITCH OPTION ONLY
H28ASV-NA-7-017-1
SHUTTLE HOME L/S Option

HYD·MECH GROUP LTD.
www.hydmech.com

Cable overview: (C11 - C19)

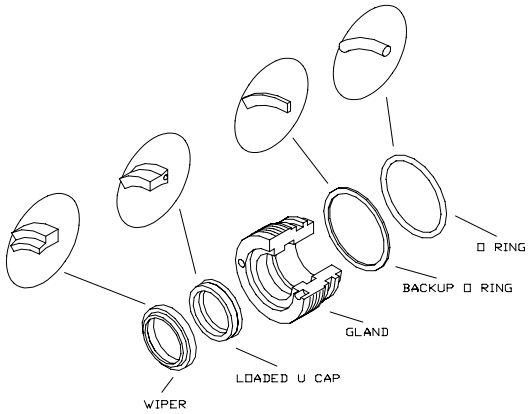
Cable Cutting List

Modification date 12/06/2012
Modified by jhayre

Check.
Form DIN_KBU_35_HMG

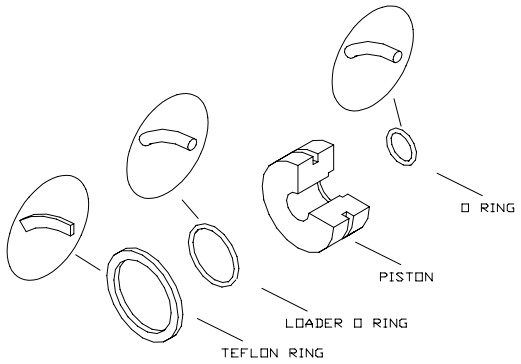
CYLINDER ASSEMBLIES

GLAND ASSEMBLIES



CYLINDER DIAMETER	E O RING	F BACKUP O RING	G GLAND	H LOADED U CAP	I WIPER
2.0”	362960	362785	CS20-GL-01A	362830	363330
2.5”	362970	362790	CS25-GL-01B	362815	363335
3.0”	362985	362795	CS30-GL-01A	362815	363335
3.5”	362995	362800	CS35-GL-01A	362835	363340
4.0”	363005	362805	CS40-GL-01A	362840	363345
5.0”	363015	362810	CS50-GL-01A	362840	363345

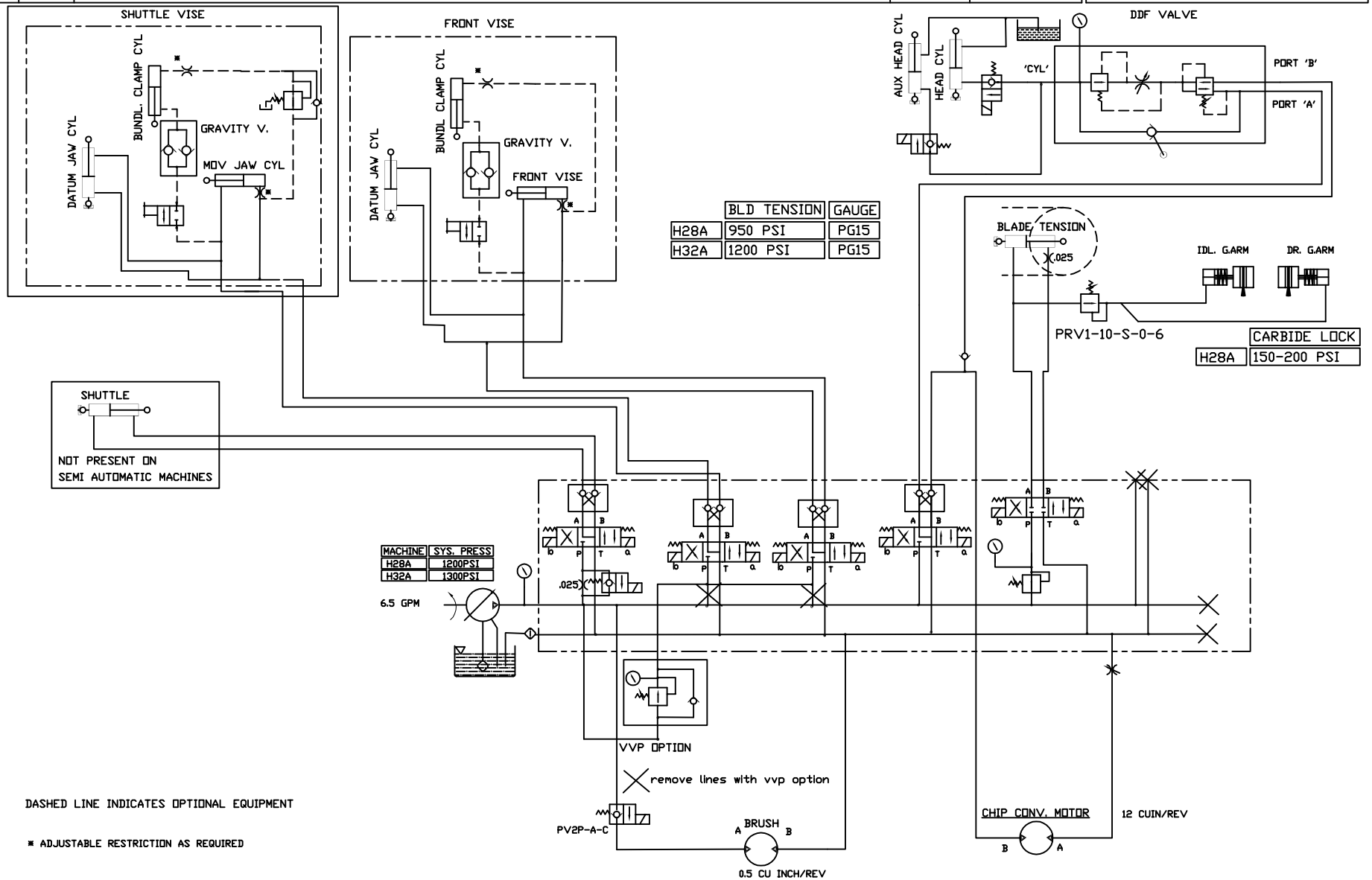
PISTON ASSEMBLIES



CYLINDER DIAMETER	A TEFLON RING	B LOADER RING	C PISTON	D O-RING
2.0”	363035	362950	CS20-PS-01B	362905
2.5”	363040	362965	CS25-PS-01	362910
3.0”	363045	362980	CS30-PS-01	362910
3.5”	363050	362990	CS35-PS-01	362925
4.0”	363055	363000	CS40-PS-01	362940
5.0”	363060	363010	CS50-PS-01	362940

REV#	COORD	CHANGE MADE	1ST MACHINE SERIAL # AFFECTED	DATE	APPROVED BY	REQUIREMENTS
B	-	ECN00233		AUG 2015		1) BREAK ALL SHARP EDGES

RTG
OPER-1
-
OPER-2
-
OPER-3
-
OPER-4
-
OPER-5
-
OPER-6
-
OPER-7
-
OPER-8
-
OPER-9
-



TOLERANCES UNLESS OTHERWISE SPECIFIED:	MACHINING AND CNC PUNCHING:	FORMING, FLAME CUTTING, SHEARING AND SAWING:
ANGULAR:	.X +/- 0.5 DEG	.X +/- 0.5 DEG
DEC:	.X +/- .015 IN	.X +/- .063 IN
DEC:	.XX +/- .010 IN	.XX +/- .032 IN
DEC:	.XXX +/- .005 IN	.XXX +/- .016 IN

QTY/MACH.	MTL.WGT.	PART WGT.	DRAWN BY	DATE	CHKD BY	DATE
-	-	-	GP	APRIL 2014	-	-

MATERIAL CODE	OVERALL MATERIAL SIZE	CUT LENGTH
-	-	-

HYD-MECH ENG.
WOODSTOCK, ONT.

PART NUMBER
H28SV-6-00-1B
SHEET 1 OF 1

PART DESCRIPTION
H28SV,H32SV HYBRYD HYDRAULIC SCHEM.

REV#	COORD	CHANGE MADE	DATE	APPROVED BY
A	-	CARBIDE BLOCK ORIFICE LOCATION CHANGE, ADDITION OF 2 HEAD LOCK VALVES (ECN00174 & ECN00180)	NOV 2014	-
B	-	ECN00233	AUG 2015	-

REQUIREMENTS
1) BREAK ALL SHARP EDGES

RTG
OPER-1 – OPER-2 – OPER-3 – OPER-4 – OPER-5 – OPER-6 – OPER-7 – OPER-8 – OPER-9 –

GRAVITY VALVE

SHUTTLE VISE

NOT PRESENT ON SEMI AUTOMATIC MACHINES

21D 22D BUNDLING CYL. (option) 3 2A5 2B5 2A4 21K 22E 2A6 2A8 1 3 2 2A7 21E 2A3 2B3 2 MOVING JAW CYLINDER 2B1 2A1 2B2 22C 4 2A2 21C DATUM LINE CYL. TO TANK 21L 0T5

FRONT VISE

31D 32D BUNDLING CYL. (option) 31F 3A2 3 3B2 3A1 3B1 2 MOVING JAW CYLINDER 31F GRAVITY VALVE 3B2 32 3B4 4 3A2 31 3A4 BV 32E 32F 32C 31C

DDF

42D AUX HEAD 4B4 6 4A5 HEAD 4B3 42C 61 4A4 41C 41D 4A6 4A2 4A1 41 4B1 42

BLADE TENSION 7 5A2 5B1 51A .025 51F 2T1 PRV1-10-S-0-6 2P5 5A1 51 52

CARBIDE LOCK
H32SV 150-200 PSI

IDL. G.ARM 5A3 DR. G.ARM 5A4 51B 51C

BLD TENSION
H32SV 1200 PSI GAUGE PG15

SHUTTLE (PULLS FORWARD) 1 1A1 1B1

NOT PRESENT ON SEMI AUTOMATIC MACHINES

11 12

SYS. PRESS.
H32SV 1300 PSI GAUGE PG15

PV2P-A-C 13 1P2 1P3 CHB-25 1P1

FILTER
MPSG 50 RI PIQ 10 MICRON

DCV3P-AB-T DPCH-1 DCV3P-AB-T DPCH-1 DCV3P-AB-T DPCH-1 DCV3P-AB-T DPCH-1 DCV3P-AB-C PRV2

2P2 2P1 2P3 JB-02 0T6 1B 1P 1T 1A 0P3 2B 2P 2T 2A 3B 3P 3T 3A 4B 4P 4T 4A 5B 5P 5T 5A 6B 6P 6T 6A 0T5 0P2 0P3

PG15 PG15

PORT 3T CONNECT LINES: 44T, T
PORT 0T5 CONNECT LINES: 20T, 21L
PORT 5TCONNECT LINES: 42C, 42D

TANK 8 US GAL 0T2 0T3 F 0T4 03 04 0S1 01 0S2 HYP-1 0T1 0P1 6.5gpm

HM-02 T 3T 1T8 1P6 1P5 P A PV2P-A-C BRUSH 0.5 CU INCH/REV

20T 20C OPTION VVP 2T1 2P5 20D 2P4 2P6 20 PG15

44 CHIP CONVEYOR 4B2 B HM-01 4T2 A 44T 12 CU INCH/REV 3T

22F 21 22 02

DASHED LINES INDICATE OPTIONAL EQUIPMENT

HOSE NUMBER

PORT NUMBER

TOLERANCES UNLESS OTHERWISE SPECIFIED:	MACHINING AND CNC PUNCHING:	FORMING, FLAME CUTTING, SHEARING AND SAWING:
ANGULAR:	.X +/- 0.5 DEG	.X +/- 0.5 DEG
DEC:	.X +/- .015 IN	.X +/- .063 IN
DEC:	.XX +/- .010 IN	.XX +/- .032 IN
DEC:	.XXX +/- .005 IN	.XXX +/- .016 IN

QTY/MACH.	MTL.WGT.	PART WGT.	DRAWN BY	DATE	CHKD BY	DATE
-	-	-	GP	MARCH 2012	-	-

MATERIAL CODE: -
OVERALL PART SIZE: -
CUT LENGTH: -

HYD-MECH WOODSTOCK,ON.

PART NUMBER H28SV-6-00-2B

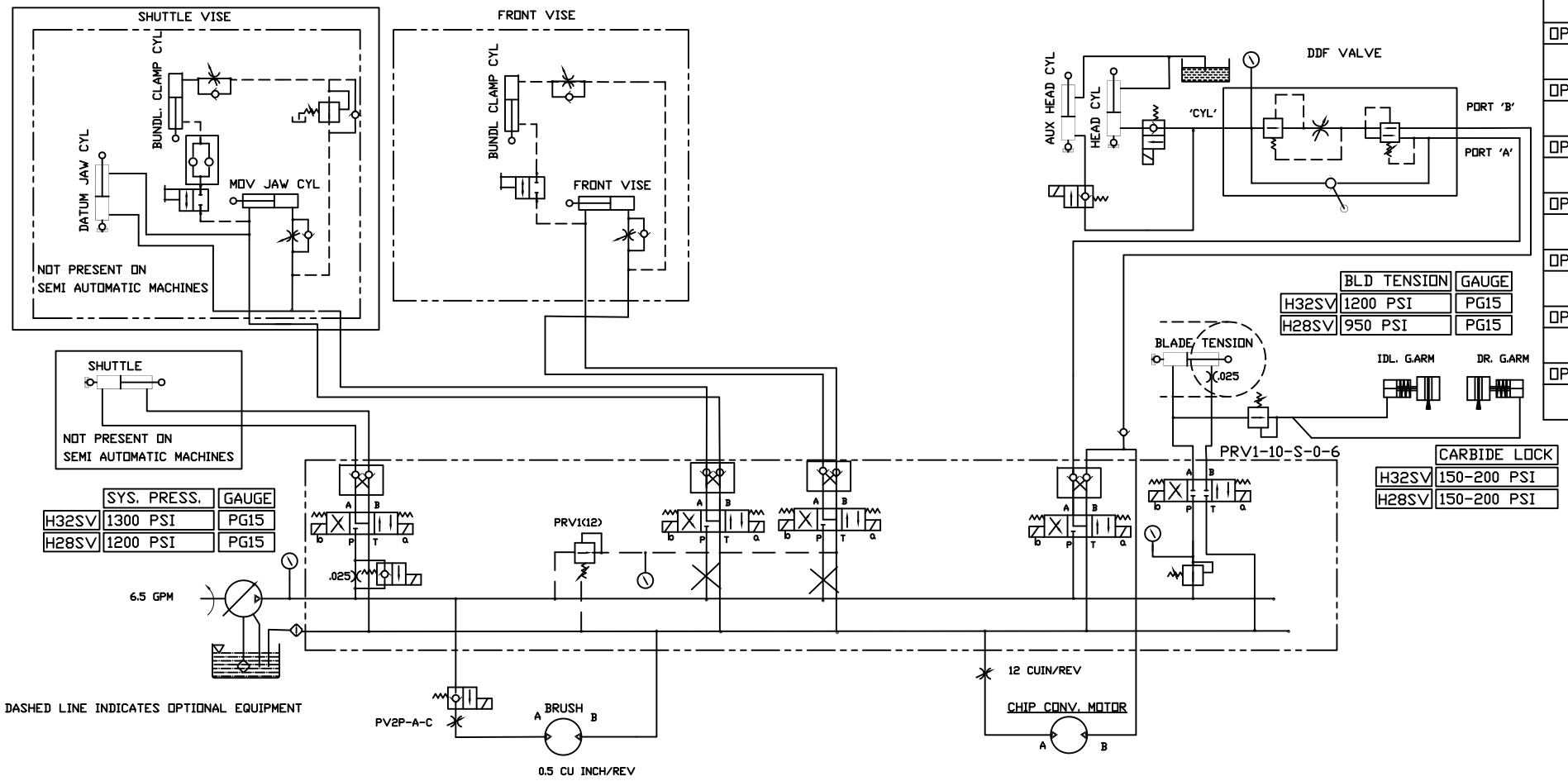
SHEET 1 OF 1

PART DESCRIPTION: H28SV, H32SV HYBRYD PLUMBING DIAG.

REV#	COORD	CHANGE MADE	1ST MACHINE SERIAL # AFFECTED	DATE	APPROVED BY	REQUIREMENTS
B	-	ECN00233		AUG 2015		1) BREAK ALL SHARP EDGES

RTG

OPER-1 – OPER-2 – OPER-3 – OPER-4 – OPER-5 – OPER-6 – OPER-7 – OPER-8 – OPER-9 –



TOLERANCES UNLESS OTHERWISE SPECIFIED:											
	MACHINING AND CNC PUNCHING:		FORMING, FLAME CUTTING, SHEARING AND SAWING:		QTY/MACH.	MTL.WGT.	PART WGT.	DRAWN BY	DATE	CHKD BY	DATE
ANGULAR:	.X	+/- 0.5 DEG	.X	+/- 0.5 DEG	–	–	–	GP	MAY 2012	-	-
DEC:	.X	+/- .015 IN	.X	+/- .063 IN	MATERIAL CODE		OVERALL MATERIAL SIZE			CUT LENGTH	
DEC:	.XX	+/- .010 IN	.XX	+/- .032 IN	–		–			–	
DEC:	.XXX	+/- .005 IN	.XXX	+/- .016 IN							

HYD-MECH ENG.
WOODSTOCK, ONT.

PART NUMBER
H32SV-6-00-1B
SHEET 1 OF 1

PART DESCRIPTION
H28SV_H32SV HYDRAULIC SCHEMATIC

REV#	COORD	CHANGE MADE	DATE	APPROVED BY
A	-	CARBIDE BLOCK ORIFICE LOCATION CHANGE, ADDITION OF 2 HEAD LOCK VALVES (ECN00174 & ECN00180)	NOV 2014	-
B	-	ECN00233	AUG 2015	-

REQUIREMENTS
1) BREAK ALL SHARP EDGES

RTG
OPER-1
-
OPER-2
-
OPER-3
-
OPER-4
-
OPER-5
-
OPER-6
-
OPER-7
-
OPER-8
-
OPER-9
-

GRAVITY VALVE

SHUTTLE VISE

NOT PRESENT ON
SEMI AUTOMATIC MACHINES

21D
22D
BUNDLING CYL.
(option)
2A5
2B5
2A4
21K
22E
2A3
2B3
MOVING JAW
CYLINDER
2B1
2A1
21E
2B2
22C
2A2
21C
DATUM LINE CYL.
2A6
2A8
2A7
TO TANK
21L
0T5

FRONT VISE

BUNDLING CYL.
(option)
31F
3A2
3B2
3A1
3B1
MOVING JAW
CYLINDER
31
32E
BV
32F
32
31
BV
22F
21
22

DDF

42D
AUX HEAD
4B4
6
4A5
HEAD
4B3
61
42C
4A4
41C
41D
4A6
4A2
4A1
41
4B1
42

BLADE TENSION
7
5A2
5B1
51A
51F
.025
2T1
PRV1-10-S-0-6
2P5
5A1
51
52
51B
51C
IDL. G.ARM
DR. G.ARM
5A3
5A4

CARBIDE LOCK	
H32SV	150-200 PSI
H28SV	150-200 PSI

BLD TENSION	GAUGE
H32SV 1200 PSI	PG15
H28SV 950 PSI	PG15

SHUTTLE (PULLS FORWARD)
1
1A1
1B1
NOT PRESENT ON
SEMI AUTOMATIC MACHINES

SYS. PRESS.	GAUGE
H32SV 1300 PSI	PG15
H28SV 1200 PSI	PG15

FILTER
MPSG 50 RI PIQ 10 MICRON

PV2P-A-C
13
1P2
11
12

DCV3P-AB-T
DPCH-1
1P3
CHB-25
1P1
DCV3P-AB-T
DPCH-1
2P2
2P1
JB-02
2P3
DCV3P-AB-T
DPCH-1
DCV3P-AB-C
PRV2
0T6
0P3
1B
1P
1A
1T
2B
2P
2A
2T
3B
3P
3A
3T
4B
4P
4A
4T
5B
5P
5A
5T
6B
6P
6A
6T
0T5
0P2
PG15
PG15
0P3

PORT 3T CONNECT LINES: 44T, T
PORT 0T5 CONNECT LINES: 20T, 21L
PORT 5TCONNECT LINES: 42C, 42D

TANK
8 US GAL
0T2
0T3
F
0T4
03
04
0S1
01
0S2
0T1
HYP-1
0P1
6.5gpm

T
3T
1T8
HM-02
1P6
A
1P5
P
PV2P-A-C
BRUSH
0.5 CU INCH/REV

20T
20C
OPTION
VVP
2T1
2P5
20D
2P4
2P6
20
PG15

44
CHIP CONVEYOR
4B2
B
4T2
HM-01
A
44T
12 CU INCH/REV

3T
02

DASHED LINES INDICATE OPTIONAL EQUIPMENT

HOSE NUMBER

(#) PORT NUMBER

TOLERANCES UNLESS OTHERWISE SPECIFIED:	MACHINING AND CNC PUNCHING:	FORMING, FLAME CUTTING, SHEARING AND SAWING:
ANGULAR:	.X +/- 0.5 DEG	.X +/- 0.5 DEG
DEC:	.X +/- .015 IN	.X +/- .063 IN
DEC:	.XX +/- .010 IN	.XX +/- .032 IN
DEC:	.XXX +/- .005 IN	.XXX +/- .016 IN

QTY/MACH.	MTL.WGT.	PART WGT.	DRAWN BY	DATE	CHKD BY	DATE
-	-	-	GP	MARCH 2012	-	-

MATERIAL CODE	OVERALL PART SIZE	CUT LENGTH
-	-	-

HYD-MECH ENG.
WOODSTOCK, ONT.

PART NUMBER H32SV-6-00-2B
SHEET 1 OF 1

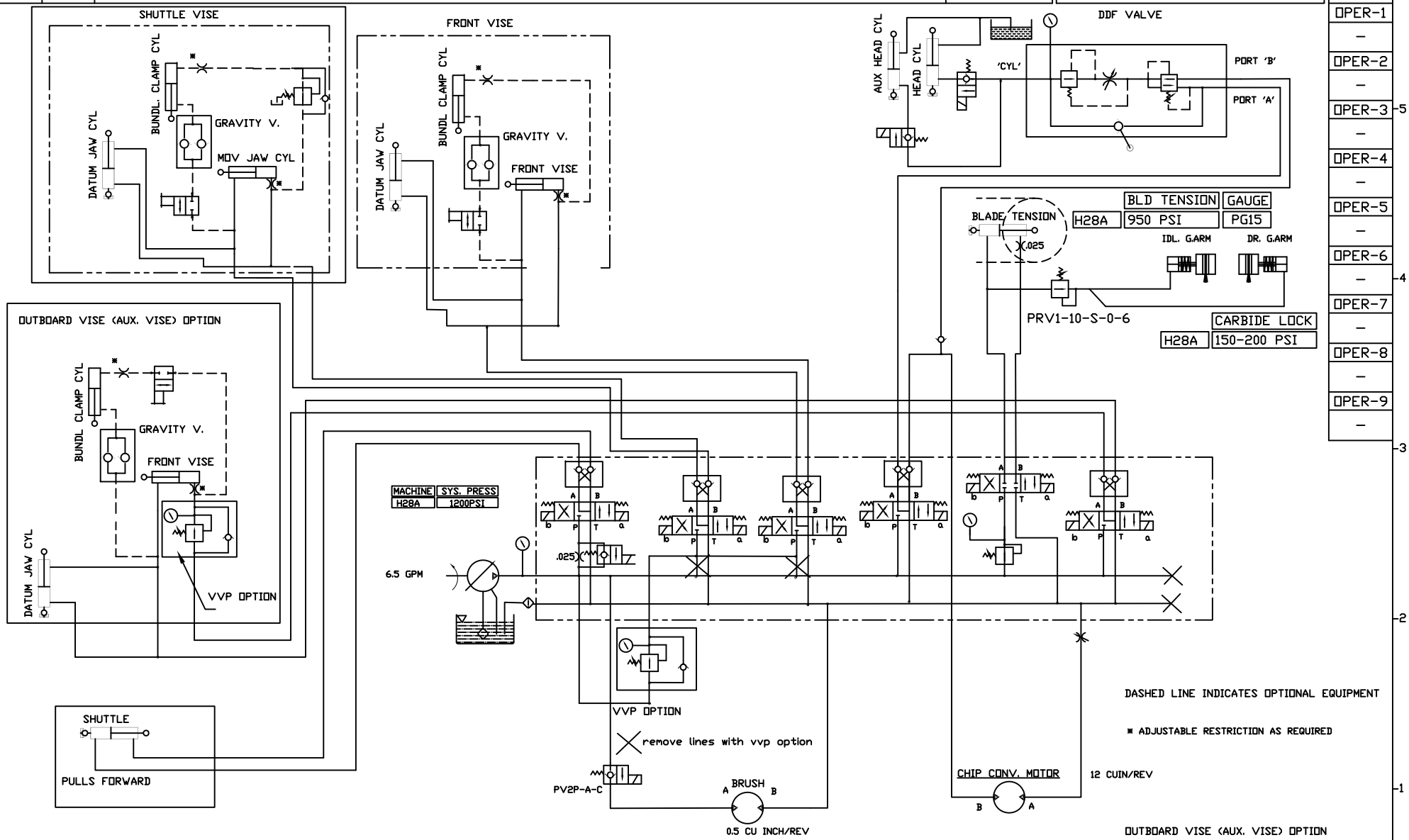
REV -

PART DESCRIPTION
H28SV_H32SV PLUMBING DIAGRAM

REV#	COORD	CHANGE MADE	1ST MACHINE SERIAL # AFFECTED	APPROVED BY	REQUIREMENTS
B	-	ECN00233		-	1) BREAK ALL SHARP EDGES

RTG

OPER-1 – OPER-2 – OPER-3 – OPER-4 – OPER-5 – OPER-6 – OPER-7 – OPER-8 – OPER-9 –



TOLERANCES UNLESS OTHERWISE SPECIFIED:

	MACHINING AND CNC PUNCHING:	FORMING, FLAME CUTTING, SHEARING AND SAWING:
ANGULAR:	.X +/- 0.5 DEG	.X +/- 0.5 DEG
DEC:	.X +/- .015 IN	.X +/- .063 IN
DEC:	.XX +/- .010 IN	.XX +/- .032 IN
DEC:	.XXX +/- .005 IN	.XXX +/- .016 IN

QTY/MACH.	MTL.WGT.	PART WGT.	DRAWN BY	DATE	CHKD BY	DATE
–	–	–	GP	APRIL 2014	-	-

MATERIAL CODE	OVERALL MATERIAL SIZE	CUT LENGTH
–	–	–

HYD-MECH ENG.
WOODSTOCK, ONT.

PART NUMBER
H28SV-G16-00-1B
SHEET 1 OF 1

PART DESCRIPTION
H28SV,H32SV HYBRYD HYDRAULIC SCHEM.

REV#	COORD	CHANGE MADE	DATE	APPROVED BY
A	-	CARBIDE BLOCK ORIFICE LOCATION CHANGE, ADDITION OF 2 HEAD LOCK VALVES (ECN00174 & ECN00179)	NOV 2014	-
B	-	ECN00233	AUG 2015	GP

REQUIREMENTS

1) BREAK ALL SHARP EDGES

RTG
OPER-1
–
OPER-2
–
OPER-3
–
OPER-4
–
OPER-5
–
OPER-6
–
OPER-7
–
OPER-8
–
OPER-9
–

SHUTTLE VISE

NOT PRESENT ON SEMI AUTOMATIC MACHINES

GRAVITY VALVE

BUNDLING CYL. (option)

MOVING JAW CYLINDER

DATUM LINE CYL.

TO TANK

SHUTTLE (PULLS FORWARD)

NOT PRESENT ON SEMI AUTOMATIC MACHINES

FRONT VISE

BUNDLING CYL. (option)

MOVING JAW CYLINDER

GRAVITY VALVE

DDF

AUX HEAD

HEAD

BLADE TENSION

CARBIDE LOCK 150-200 PSI

IDL. GARM

DR. GARM

PRV1-10-S-0-6

BLD TENSION	GAUGE
H28 950 PSI	PG15
H32 1200 PSI	PG20

OUTBOARD VISE (AUX. VISE)

GRAVITY VALVE

BUNDLING CYL. (option)

MOVING JAW CYLINDER

PORT 6B IS AT THE MANIFOLD FRONT

CONNECT IF NO VVP OPTION

CONNECT IF VVP OPTION

OUTBOARD VISE VVP OPTION

DCV3P-AB-T

DPCH-1

DCV3P-AB-C

PRV2

PV2P-A-C

CHB-25

JB-02

FILTER MPSG 50 RI PIQ 10 MICRON

TANK 8 US GAL

HYP-1

6.5gpm

HM-02

BRUSH 0.5 CU INCH/REV

OPTION VVP

PG15

CHIP CONVEYOR

HM-01

12 CU INCH/REV

1500 PSI

VVP OPTION

SYS. PRESS.	GAUGE
H28 1200 PSI	PG15
H32 1300 PSI	PG20

DASHED LINES INDICATE OPTIONAL EQUIPMENT

[#] HOSE NUMBER

(#) PORT NUMBER

PORT 3T CONNECT LINES: 44T, T
PORT 0T5 CONNECT LINES: 20T, 21L
PORT 5TCONNECT LINES: 42C, 42D

TOLERANCES UNLESS OTHERWISE SPECIFIED:	MACHINING AND CNC PUNCHING:	FORMING, FLAME CUTTING, SHEARING AND SAWING:
ANGULAR:	.X +/- 0.5 DEG	.X +/- 0.5 DEG
DEC:	.X +/- .015 IN	.X +/- .063 IN
DEC:	.XX +/- .010 IN	.XX +/- .032 IN
DEC:	.XXX +/- .005 IN	.XXX +/- .016 IN

QTY/MACH.	MTL.WGT.	PART WGT.	DRAWN BY	DATE	CHKD BY	DATE
–	–	–	GP	JAN 2013	-	-

MATERIAL CODE: –

OVERALL PART SIZE: –

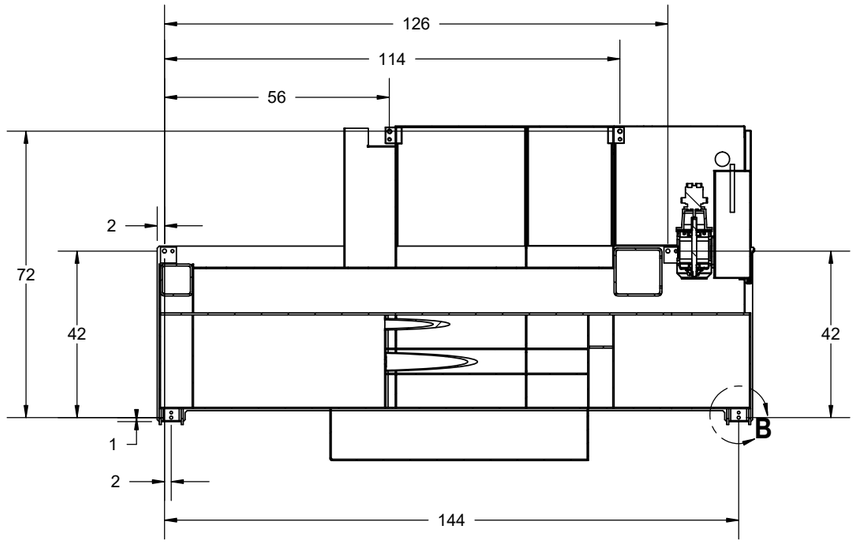
CUT LENGTH: –

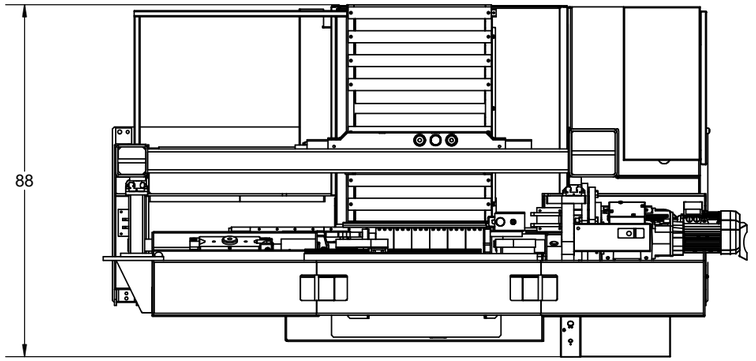
HYD-MECH, WOODSTOCK,ON.

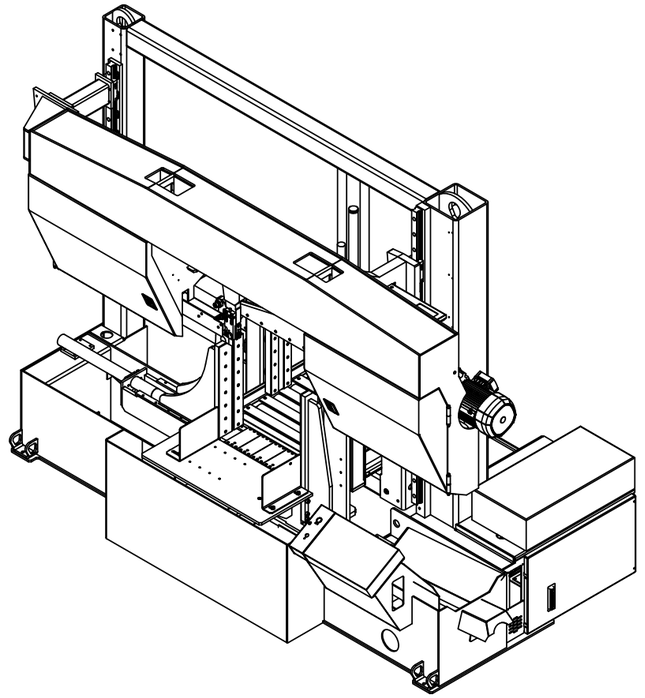
PART NUMBER: H28SV-G16-00-2B

SHEET 1 OF 1

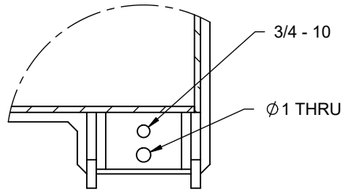
PART DESCRIPTION: H28SV, H32SV HYBRYD PLUMBING DIAG.



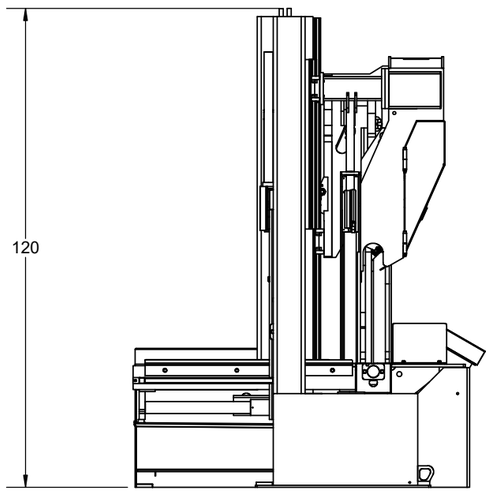


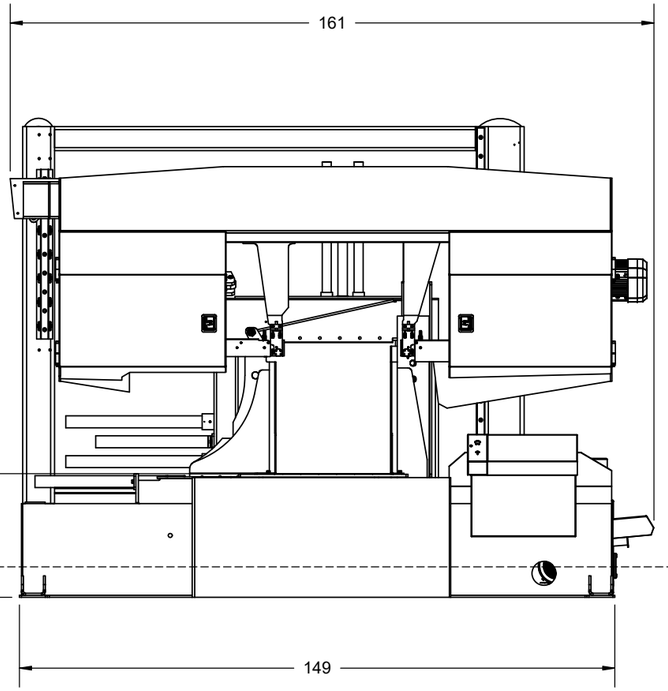


SECTION **A-A**
FOUNDATION PLAN



DETAIL **B**
SCALE 1 : 8





REVISIONS			
REV	ECN NUMBER	DATE	BY
-	-	-	-
-	-	-	-

STANDARD HYDMECH TOLERANCES UNLESS OTHERWISE SPCIFIED

DIMENSIONS ARE IN INCHES

THIRD ANGLE PROJECTION

HYDMECH GROUP LIMITED
WOODSTOCK, ONTARIO, CANADA N4S 0A9

TITLE **H28SV BANDSAW ASSEMBLY**

MODEL:	COMPONENT GROUP:	DRWN BY: MSILOS DATE: AUG 2016	CHKED BY: DATE:	SCALE 1:38	SHEET 1
MATERIAL CODE:	MAT'L:	PART WEIGHT:	COATING:		
		DRAWING NUMBER: **H28SV-0-00**		REV	

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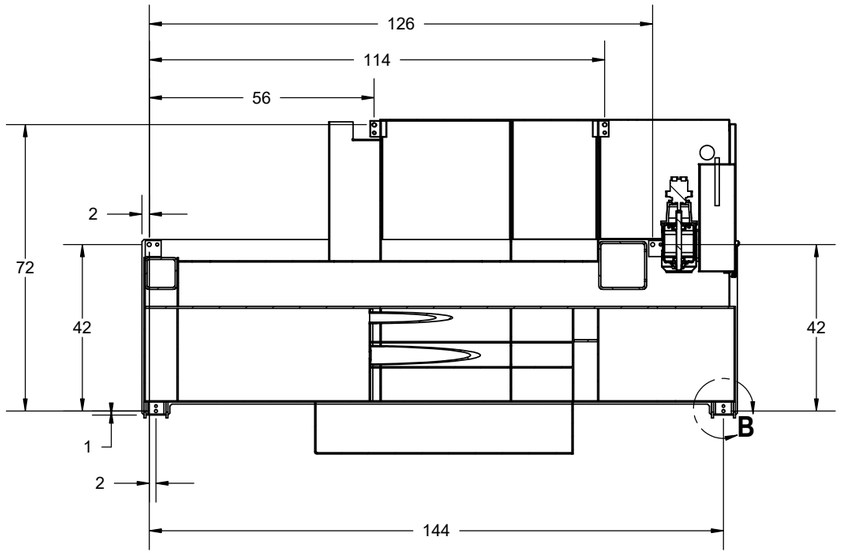
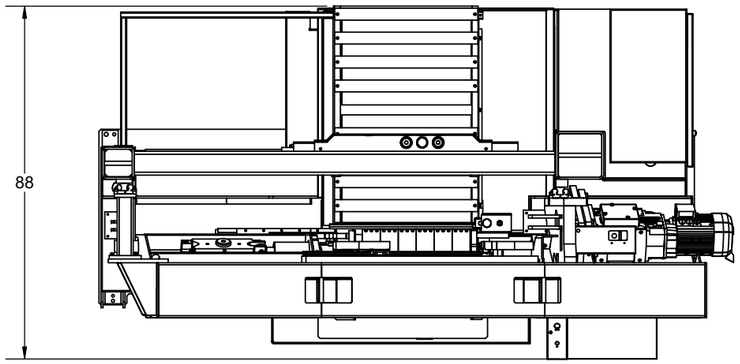
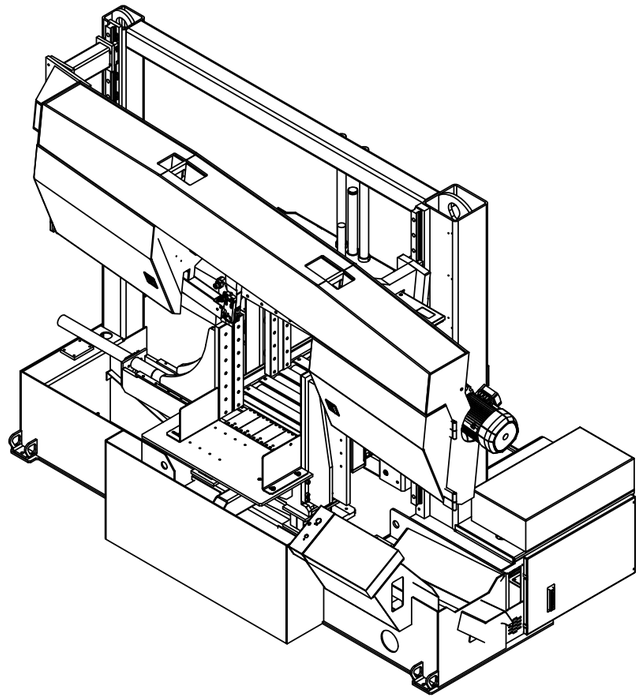
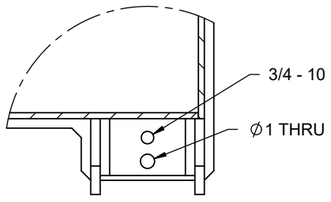


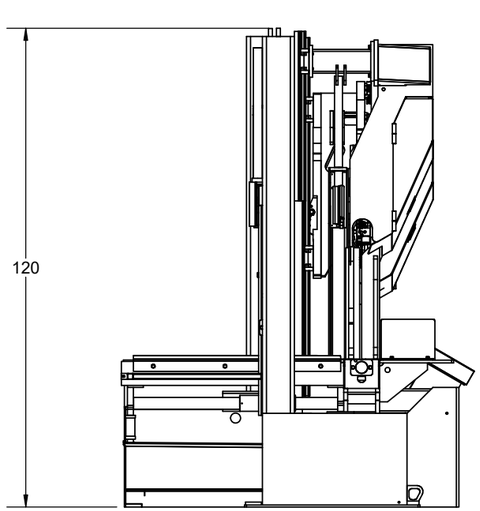
SECTION **A-A**
FOUNDATION PLAN

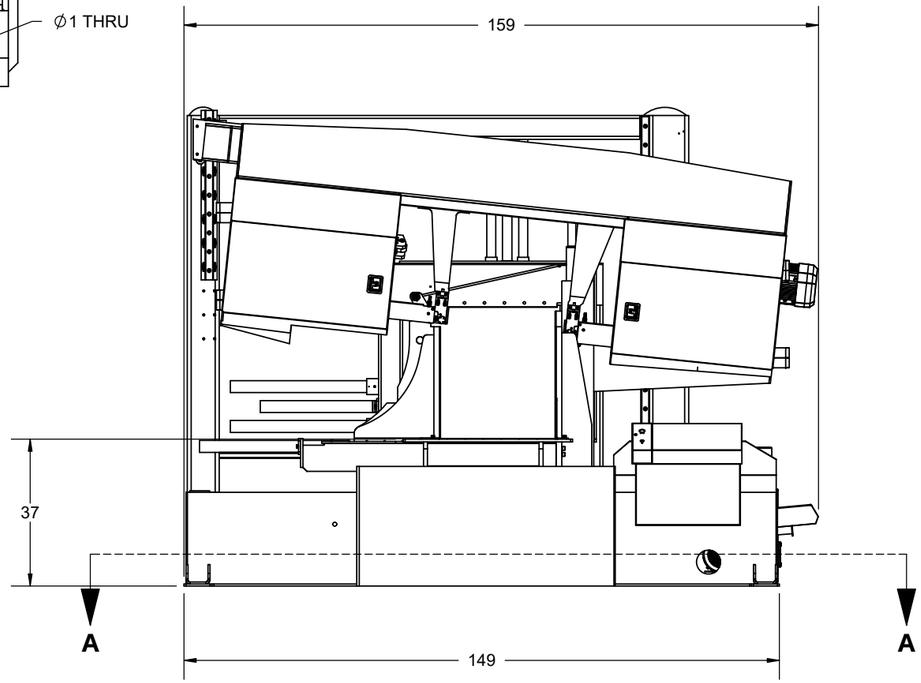






DETAIL **B**
SCALE 1 : 8





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ALL RIGHTS RESERVED.

REVISIONS			
REV	ECN NUMBER	DATE	BY
-	-	-	-
-	-	-	-

STANDARD HYDMECH TOLERANCES UNLESS OTHERWISE SPCIFIED

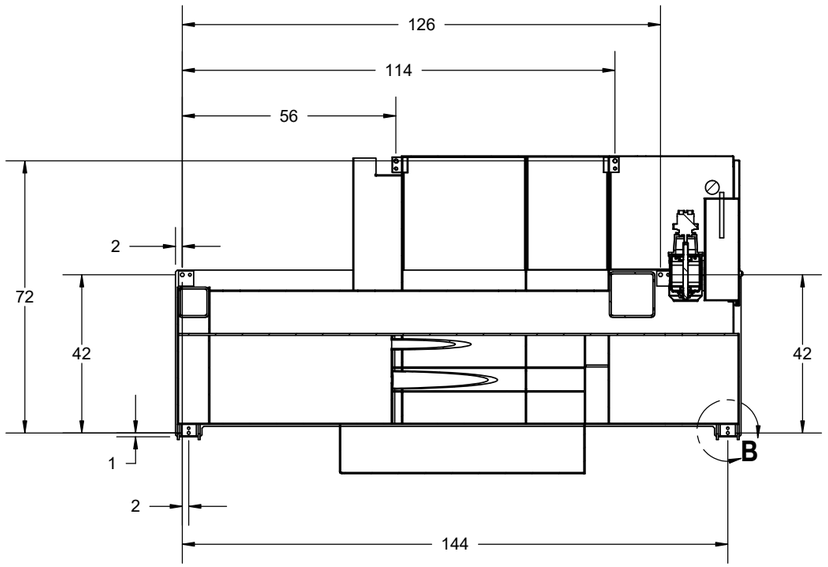
DIMENSIONS ARE IN INCHES

THIRD ANGLE PROJECTION

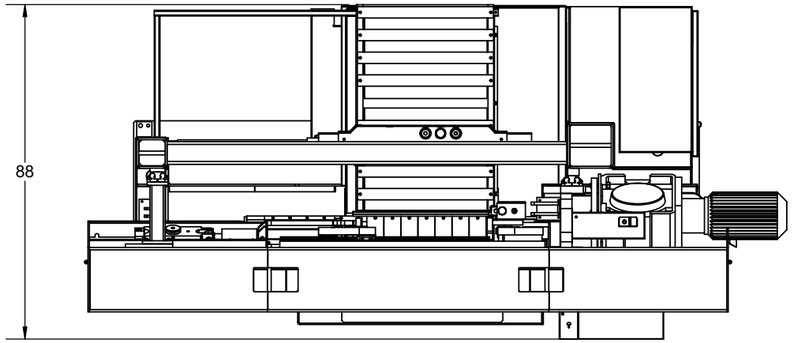
HYDMECH GROUP LIMITED
WOODSTOCK, ONTARIO, CANADA N4S 0A9

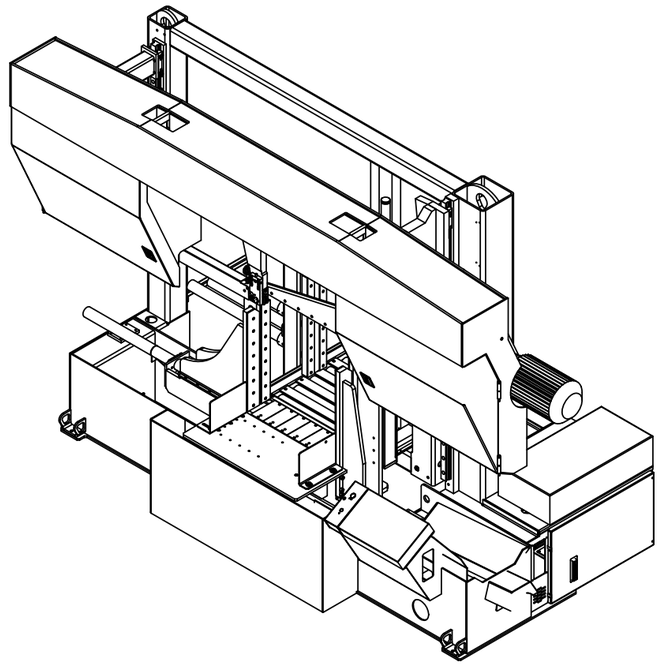
TITLE: **H28SV 6 DEGREE CANTED HEAD BANDSAW ASSEMBLY**

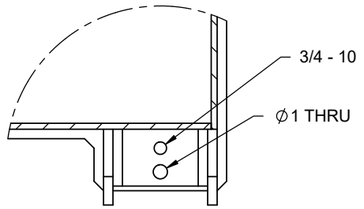
MODEL:	COMPONENT GROUP:	DRWN BY: MSILOS DATE: AUG 2016	CHKED BY: DATE:	SCALE: 1:38 / SHEET: 2
MATERIAL CODE:	MATL:	PART WEIGHT:	COATING:	
		DRAWING NUMBER: **H28SV_6D-0-00**		REV



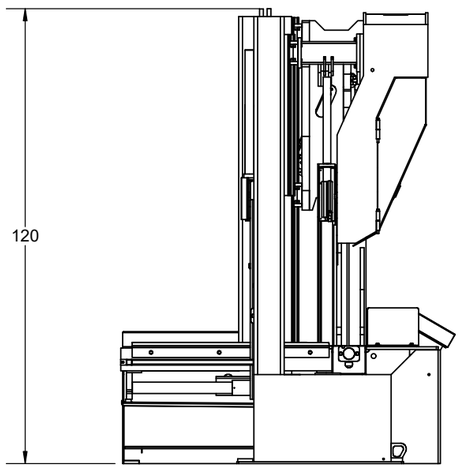
SECTION **A-A**
FOUNDATION PLAN

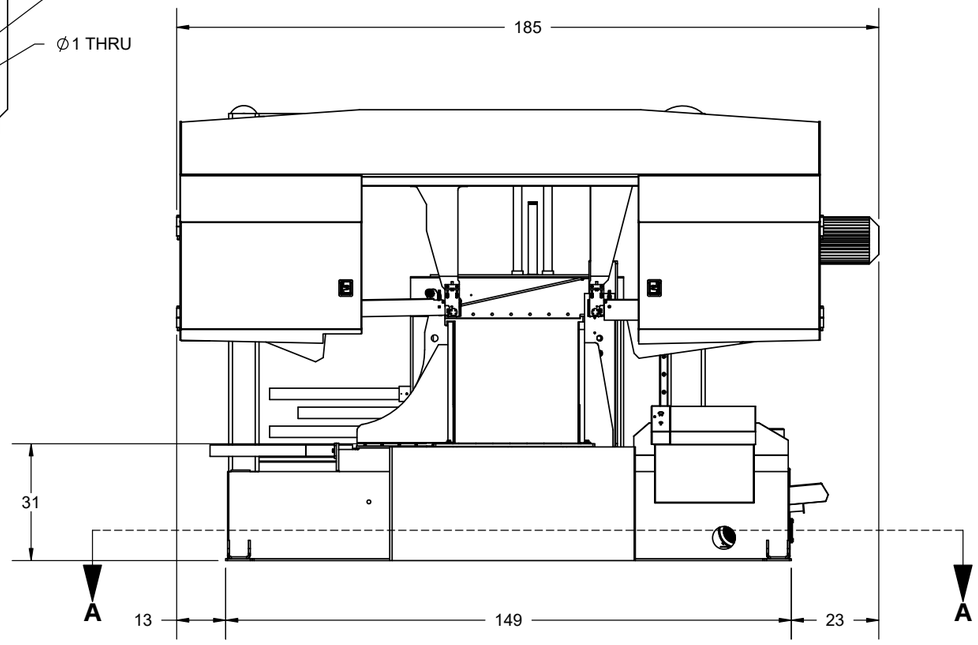






DETAIL **B**
SCALE 1 : 8





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REVISIONS

REV	ECN NUMBER	DATE	BY
-	-	-	-
-	-	-	-

STANDARD HYDMECH TOLERANCES UNLESS OTHERWISE SPCIFIED

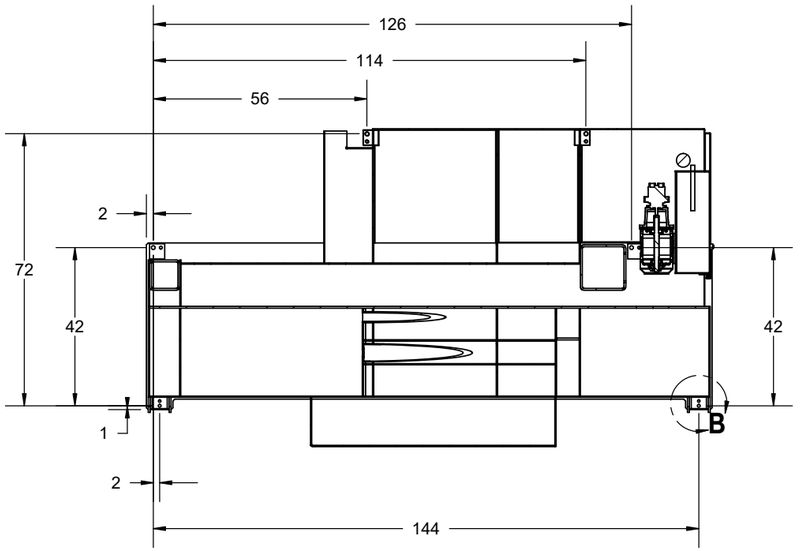
DIMENSIONS ARE IN INCHES

THIRD ANGLE PROJECTION

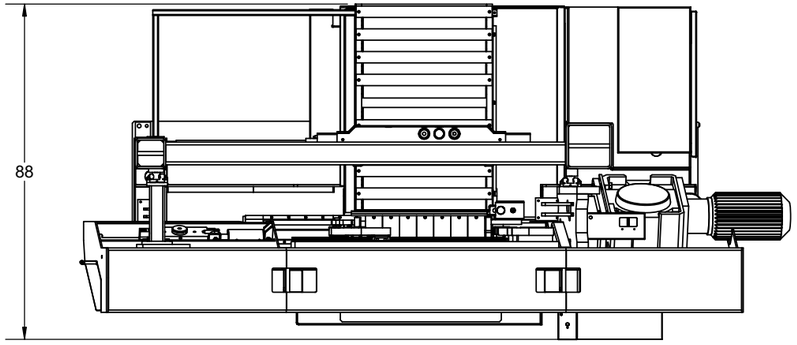
HYDMECH GROUP LIMITED
WOODSTOCK. ONTARIO. CANADA N4S 0A9

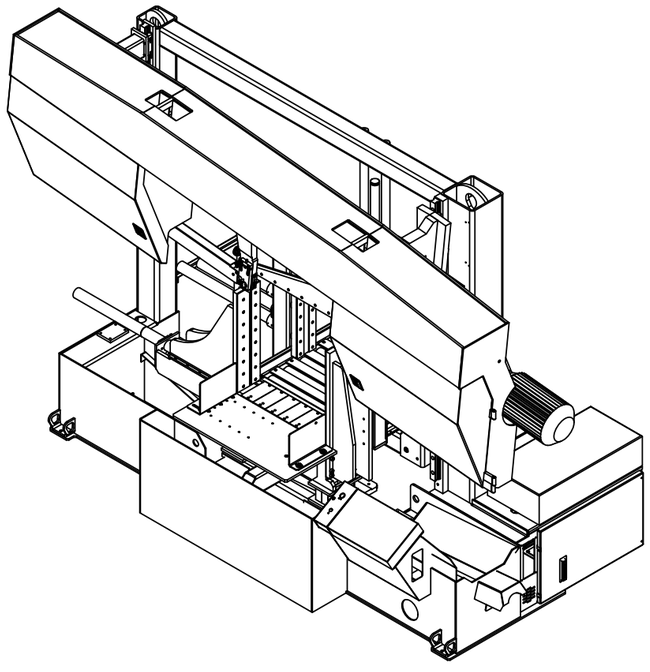
TITLE: **H32SV BANDSAW ASSEMBLY**

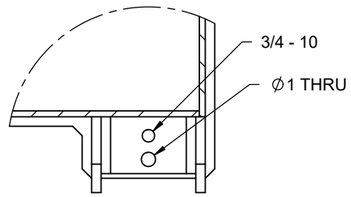
MODEL:	COMPONENT GROUP:	DRWN BY: MSILOS DATE: AUG 2016	CHKED BY: DATE:	SCALE: 1:40	SHEET: 1
MATERIAL CODE:	MATL:	PART WEIGHT:	COATING:		
		DRAWING NUMBER: **H32SV-0-00**		REV	



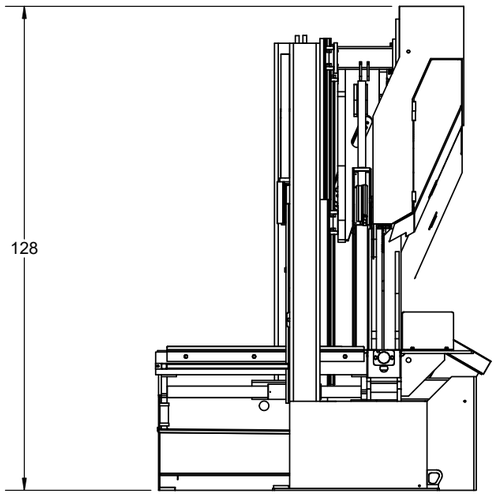
SECTION **A-A**
FOUNDATION PLAN

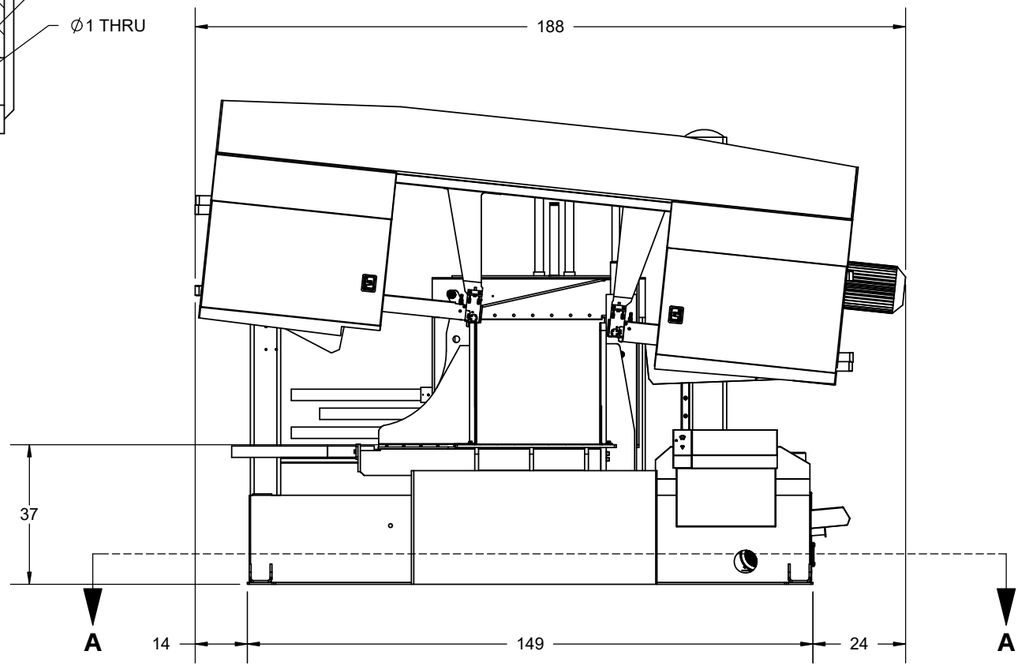






DETAIL **B**
SCALE 1 : 8





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REVISIONS			
REV	ECN NUMBER	DATE	BY
-	-	-	-
-	-	-	-

STANDARD HYDMECH TOLERANCES UNLESS OTHERWISE SPCIFIED

DIMENSIONS ARE IN INCHES

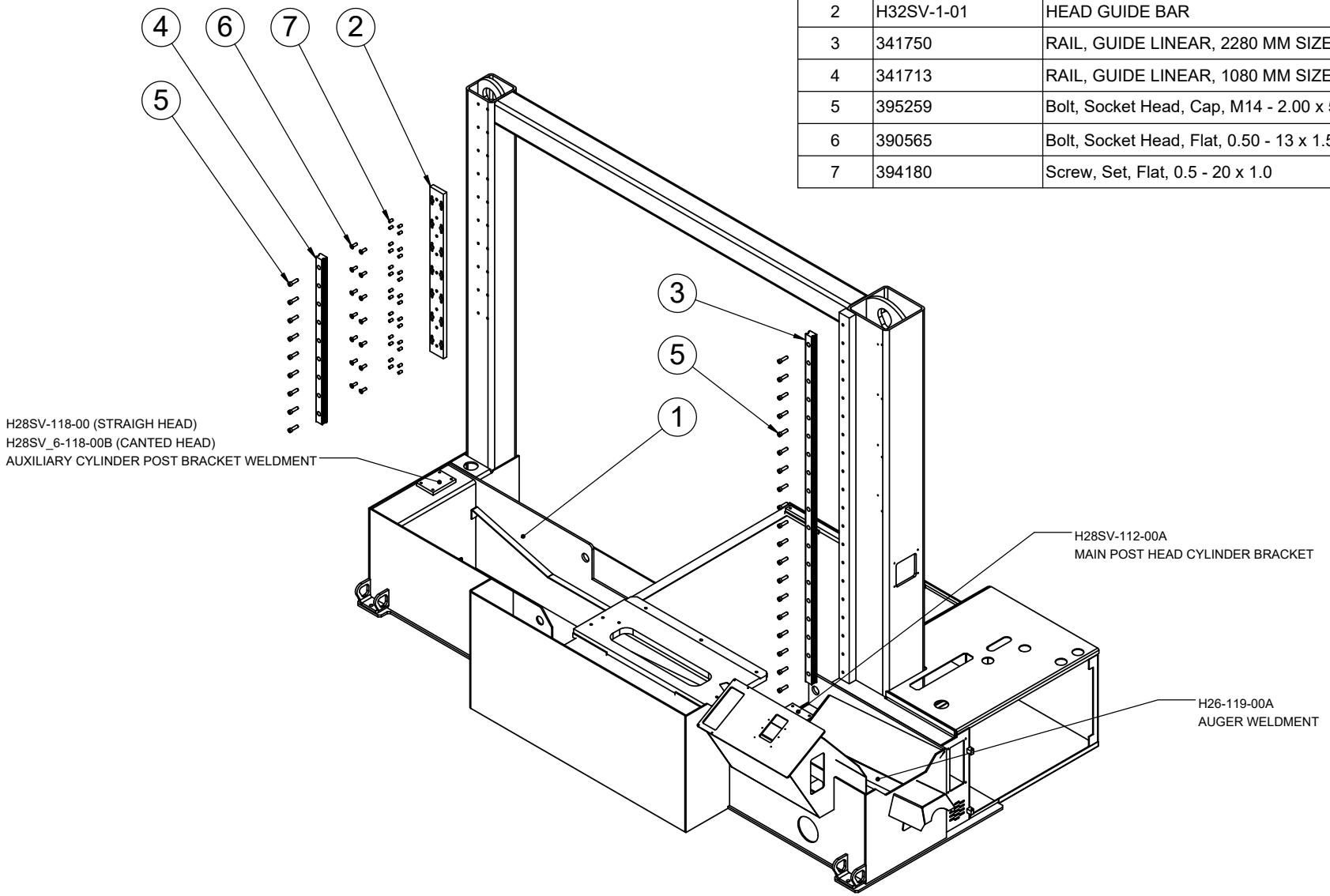
THIRD ANGLE PROJECTION

HYDMECH GROUP LIMITED
WOODSTOCK. ONTARIO. CANADA N4S 0A9

TITLE
H32SV 6 DEGREE CANTED HEAD BANDSAW ASSEMBLY

MODEL:	COMPONENT GROUP:	DRWN BY: MSILOS DATE: AUG 2016	CHKED BY: DATE:	SCALE 1:40	SHEET 1
MATERIAL CODE:	MAT'L:	PART WEIGHT:	COATING:		
		DRAWING NUMBER: **H32SV_6D-0-00**			REV

ITEM#	PART NUMBER	DESCRIPTION	QUANTITY
1		BASE WELDMENT	1
2	H32SV-1-01	HEAD GUIDE BAR	1
3	341750	RAIL, GUIDE LINEAR, 2280 MM SIZE 55, H C	1
4	341713	RAIL, GUIDE LINEAR, 1080 MM SIZE 55, H C	1
5	395259	Bolt, Socket Head, Cap, M14 - 2.00 x 50	28
6	390565	Bolt, Socket Head, Flat, 0.50 - 13 x 1.50	14
7	394180	Screw, Set, Flat, 0.5 - 20 x 1.0	28



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REVISIONS

REV	ECN NUMBER	DATE	BY
-	ECN00117	MAY 2014	WR
-	-	-	-

STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED

DIMENSIONS ARE IN INCHES

LINEAR
.X +/- .015 IN
.XX +/- .010 IN
.XXX +/- .005 IN
= 125 MICROINCHES

ANGULAR
X.X =/- 0.5 DEG

THIRD ANGLE PROJECTION

HYD - MECH
The Rock Solid Solution

HYD - MECH GROUP LIMITED
WOODSTOCK. ONTARIO. CANADA N4S 8A4

TITLE
BASE ASSEMBLY

MATERIAL CODE:	MAT'L:	SAW CUT LENGTH	DRWN BY: MSILOS	CHKED BY:	SCALE	SHEET	REV
ASSEMBLY			DATE: SEPT 2012	DATE:	1:32	1 OF 1	-

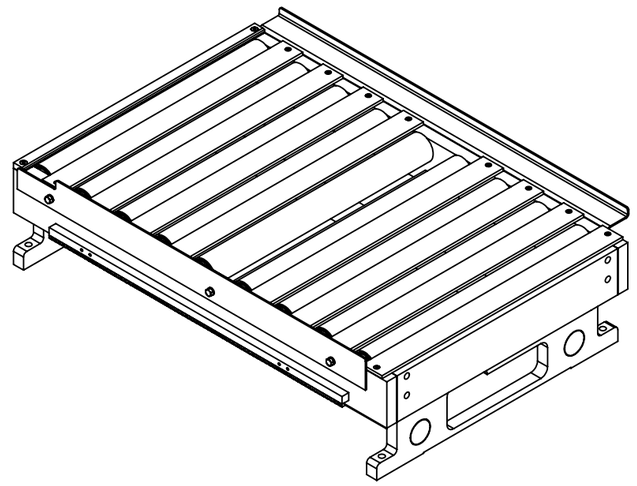
OVERALL DIMENSIONS
THK/OD WDTH/ID WALL/WT LENGTH

PART WEIGHT

COATING No Coating

DRAWING NUMBER: **H32SV-1-00**

ITEM#	PART NUMBER	DESCRIPTION	QUANTITY
1	H28SV-21-00B	INFEED CONVEYOR	1
2	H28-2-08	REMOVABLE COVER	8
3	H28SV-2-01	INFEED PLATE	1
4	M20-24-00	ASSEMBLY, ROLLER	9
5	H28-2-03A	PIN	9
6	H28-2-04	PIN HOLDER, DRIVE SIDE	1
7	H28-2-05	PIN HOLDER, IDLER SIDE	1
8	H18-724-00	WELDMENT, BAR RACK	1
9	394775	Lock Washer, 0.5"	6
10	395292	Bolt, Socket Head, Flat, 0.375 - 16 x 1.25	2
11	390645	Bolt, Socket Head, Flat, 0.3125 - 18 x 0.75	16
12	390170	Bolt,Hex Head Cap, 0.50-13x1.25	6
13	H28SV-2-06B	REAR INFEED MTG BKT	1
14	H28SV-2-08C	REAR INFEED MTG BKT	1
15	H28SV-2-09	SHUTTLE SHAFT	2
16	394055	Screw, Set, Cup, 0.50 - 13 x 0.75	4
17	394785	Washer, Lock, 0.75	4
18	390330	Bolt, Hex Head Cap, 0.50 - 13 x 2.25	4



REVISIONS

REV	ECN NUMBER	DATE	BY
-	-	-	-
-	-	-	-

STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED

DIMENSIONS ARE IN INCHES

LINEAR

.X +/- .015 IN
.XX +/- .010 IN
.XXX +/- .005 IN

= 125 MICROINCHES

ANGULAR

X.X =/- 0.5 DEG

THIRD ANGLE PROJECTION

HYD - MECH
The Rock Solid Solution

HYD - MECH GROUP LIMITED
WOODSTOCK, ONTARIO, CANADA N4S 8A4

TITLE
CONVEYOR ASSEMBLY

MATERIAL CODE:	MAT'L:	SAW CUT LENGTH	DRWN BY: MSILOS	CHKED BY:	SCALE	SHEET	REV
ASSEMBLY			DATE: SEPT 2012	DATE:	1:12	1 OF 1	-

OVERALL DIMENSIONS
THK/OD WDTH/ID WALL/WT LENGTH

PART WEIGHT

COATING

DRAWING NUMBER: **H28SV-2-00**

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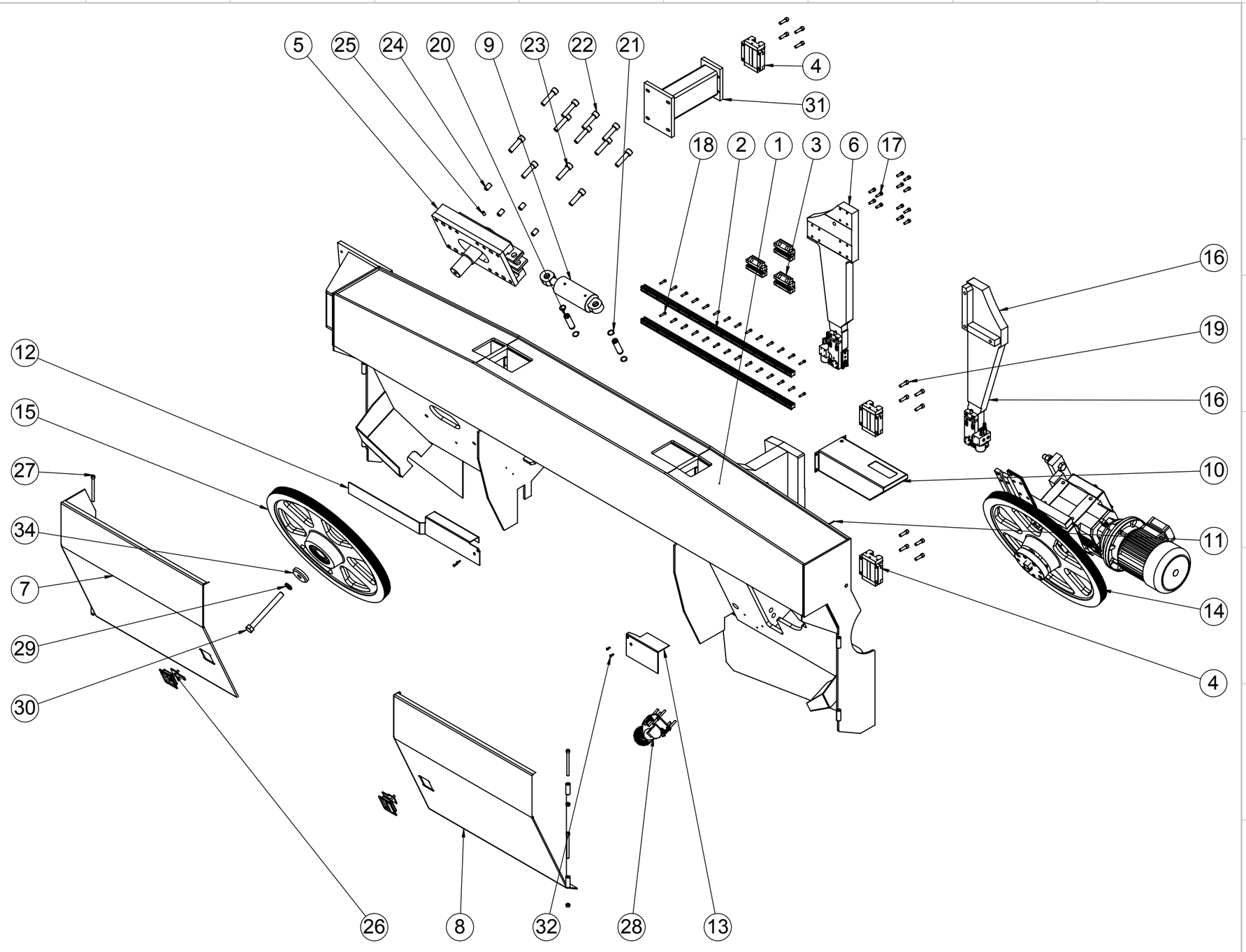
ITEM#	PART NUMBER	DESCRIPTION	QTY
1		HEAD WELDMENT	1
2	341723	Rail, Guide, Linear, 1120mm Size 30	2
3	341715	Block, Runner, Linear, Size 30, BRH30A	3
4	340523	BLOCK, RUNNER, LINEAR, SIZE 55, 1651-514	3
5	H28SV-43-00	IDLER WHEEL SLIDER ASSEMBLY	1
6	H28SV-47-00	ASSEMBLY, GUIDE ARM, IDLER SIDE	1
7	H28SV-32-00	DOOR WELDMENT - IDLER SIDE	1
8	H28SV-33-00	DRIVE DOOR WLDT	1
9	H22-C5-00A	ASSEMBLY, CYLINDER, BLADE TENSION	1
10	H28-361-00A	TRACK MTG BKT	1
11	H28-36-01	COVER	1
12	H28SV-93-01	LOWER BLADE COVER	1
13	H28SV-94-02	DRIVE SIDE LOWER BLADE COVER	1
14	H28-49-00	KIT, BLADE DRIVE, A603 GEARBOX	1
15	W32-45-00	IDLER WHEEL ASSY	1
16	H28SV-46-00	ASSEMBLY, GUIDE ARM, DRIVE SIDE	1
17	390885	Bolt, Socket Head, Cap, M10x1.50x30mm	12
18	390703	Bolt, Socket Head, Cap, 0.312 - 18 x 1.25	28
19	390785	Bolt, Socket Head Cap, 0.50 - 13 x 1.75	12
20	H22-6-01	PIN, MOUNTING, TENSION CYLINDER	2
21	393540	RING, RETAINING, EXTERNAL 1 1/8	4
22	390840	Bolt, Socket Head, Cap, 0.875 - 9 x 3.25	8
23	395298	Bolt, Socket Head, Cap, 0.875 - 9 x 3.25	4
24	394205	Screw, Set, Flat, 0.875 - 9 x 1.5	4
25	395299	Screw, Set, Cup Point, 0.50 - 13 x 1.0	1
26	341251	HANDLE, DOOR LATCH, T HANDLE, 698-6950	2
27	395091	Bolt, Socket Head, Cap, M12 - 1.75 x 150	4
28	H22-48-00	ASSEMBLY, BLADE BRUSH	1
29	394795	Washer, Lock, 1.0	1
30	390390	Bolt, Hex Head Cap, 1.0-8 x 2.50	1
31	H32SV-35-00A	AUX BEARING MTG BKT	1
32	390024	BOLT, BUTTON HEAD CAP, 0.25 - 20 X 0.75	4
33	392910	Nut, Hex, M12 -1.75	4
34	H22SV-49-03	Cap, Retaining, Rear, A603 & A703 Gear Box	1



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REVISIONS

REV	ECN NUMBER	DATE	BY
-	-	-	-
-	-	-	-

STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED

DIMENSIONS ARE IN INCHES

LINEAR
.X +/- .015 IN
.XX +/- .010 IN
.XXX +/- .005 IN
= 125 MICROINCHES

ANGULAR
X.X =/- 0.5 DEG

THIRD ANGLE PROJECTION

HYD - MECH
The Rock Solid Solution

HYD - MECH GROUP LIMITED
WOODSTOCK, ONTARIO, CANADA N4S 8A4

TITLE
H28SV HEAD ASSEMBLY

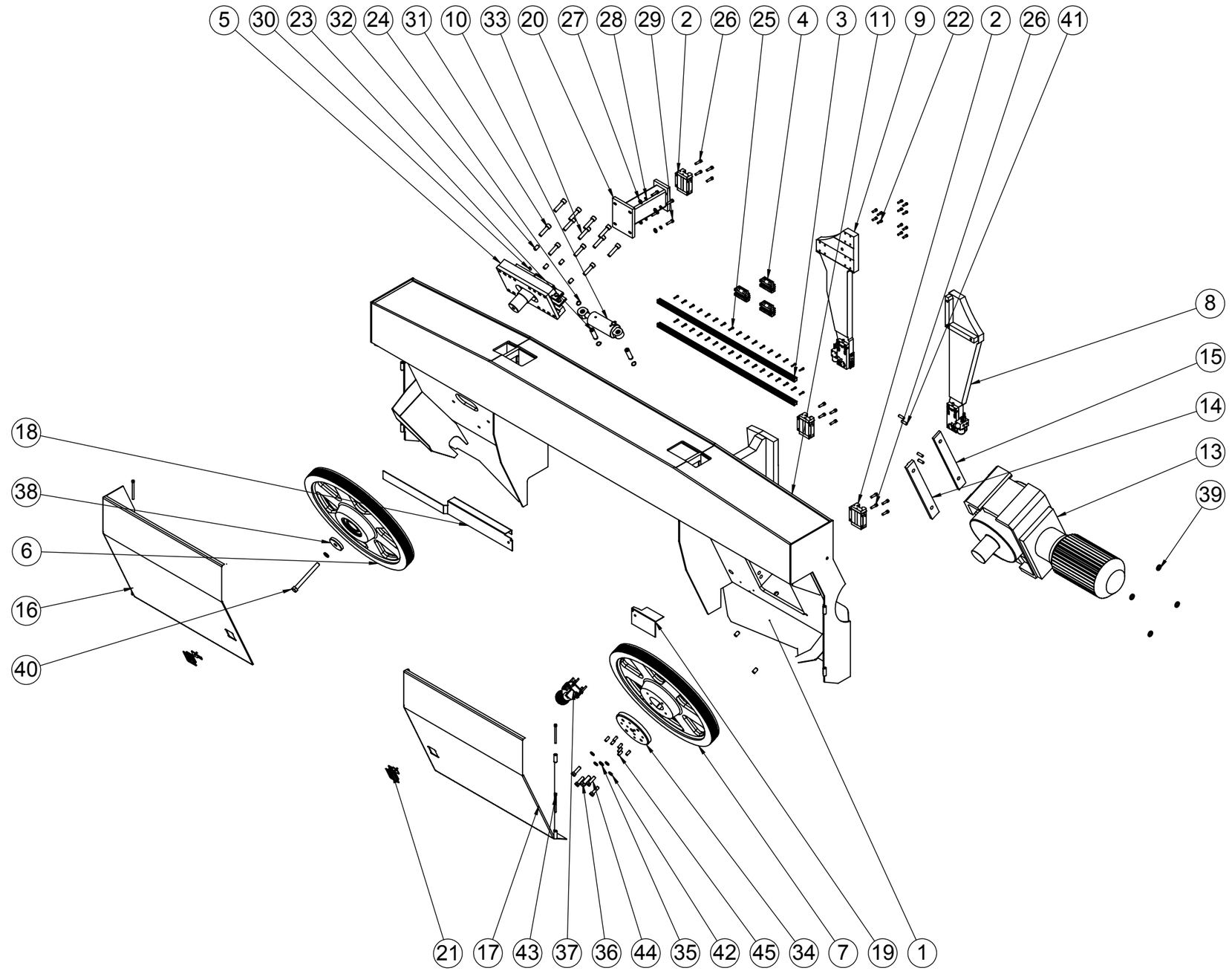
MATERIAL CODE:	MAT'L:	SAW CUT LENGTH	DRWN BY: MSILOS	CHKED BY:	SCALE	SHEET	REV
			DATE: OCT 2012	DATE:	1:22	1 OF 1	-

OVERALL DIMENSIONS
THK/OD WDTH/ID WALL/WT LENGTH

PART WEIGHT
COATING

DRAWING NUMBER: **H28SV-3-00**

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1		HEAD WELDMENT	1
2	340523	BLOCK, RUNNER, LINEAR, SIZE 55, 1651-514	3
3	341721	Rail, Guide Linear, 1400mm size 30, AGR30R-1400	2
4	341715	Block, Runner, Linear, Size 30, BRH30A	3
5	H32-43A-00	IDLER WHEEL SLIDER ASSEMBLY	1
6	W38-45-00	38" IDLER WHEEL ASSEMBLY	1
7	W38-44-01	Wheel, Drive, 38 In, Machined	1
8	H32SV-46-00	ASSEMBLY, GUIDE ARM, DRIVE SIDE	1
9	H32SV-47-00	ASSEMBLY, GUIDE ARM, IDLER SIDE	1
10	H22-C5-00A	ASSEMBLY, CYLINDER, BLADE TENSION	1
11	H28-361-00	TRACK MTG BKT	1
12	H28-36-01	COVER	1
13	EPM80	GEARBOX	1
14	H40-3-06	GEARBOX PIVOT PLATE	1
15	H26-4A-05	GEARBOX TIPPING PLATE	1
16	H32SV-32-00A	DOOR WELDMENT - IDLER SIDE	1
17	H32SV-33-00A	DOOR WELDMENT - DRIVE SIDE	1
18	H32SV-93-01B	LOWER BLADE COVER	1
19	H32SV-94-02A	DRIVE SIDE LOWER BLADE COVER	1
20	H32SV-35-00A	AUX BEARING MTG BKT	1
21	341251	HANDLE, DOOR LATCH, T HANDLE, 698-6950	2
22	390885	Bolt, Socket Head, Cap, M10x1.50x30mm	12
23	H22-6-01	PIN, MOUNTING, TENSION CYLINDER	2
24	393540	RING, RETAINING, EXTERNAL 1 1/8	4
25	390703	Bolt, Socket Head, Cap, 0.312 - 18 x 1.25	34
26	390785	Bolt, Socket Head Cap, 0.50 - 13 x 1.75	12
27	394670	Washer,Flat, 0.50	4
28	394775	Washer, Lock, 0.5	4
29	390190	Bolt, Hex Head Cap, 0.50 - 13 x 2.00	4
30	395299	Screw, Set, Cup Point, 0.50 - 13 x 1.0	1
31	395298	Bolt, Socket Head, Cap, 0.875 - 9 x 3.25	4
32	394205	Screw, Set, Flat, 0.875 - 9 x 1.5	6
33	390840	Bolt, Socket Head, Cap, 0.875 - 9 x 3.25	8
34	M-H40-3-02A	Retainer, Drive Wheel, Machined	1
35	342535	Washer, Lock, M24	1
36	390439	Bolt, Hex Head Cap, M24 - 3.0 x 70	1
37	H22-48-00	ASSEMBLY, BLADE BRUSH	1
38	H40-3-05	IDLER WHEEL HOLDER	1
39	394795	Washer, Lock, 1.0	5
40	390390	Bolt, Hex Head Cap, 1.0-8 x 2.50	1
41	394081	Screw, Set, Cup Point, 0.625 - 11 x 2.0	4
42	394785	Washer, Lock, 0.75	4
43	395091	Bolt, Socket Head, Cap, M12 - 1.75 x 150	4
44	390335	Bolt, Hex Head Cap, 0.75-10 x 2.50	4
45	394185	Screw, Set, Flat Point, 0.625 - 11 x 1.5	7



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REVISIONS

REV	ECN NUMBER	DATE	BY
-	ECN00117	MAY 2014	WR
-	-	-	-

STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED

DIMENSIONS ARE IN INCHES

LINEAR
.X +/- .015 IN
.XX +/- .010 IN
.XXX +/- .005 IN
= 125 MICROINCHES

ANGULAR
X.X =/- 0.5 DEG

THIRD ANGLE PROJECTION

HYD - MECH
The Rock Solid Solution

HYD - MECH GROUP LIMITED
WOODSTOCK, ONTARIO, CANADA N4S 8A4

TITLE
H32SV HEAD ASSEMBLY

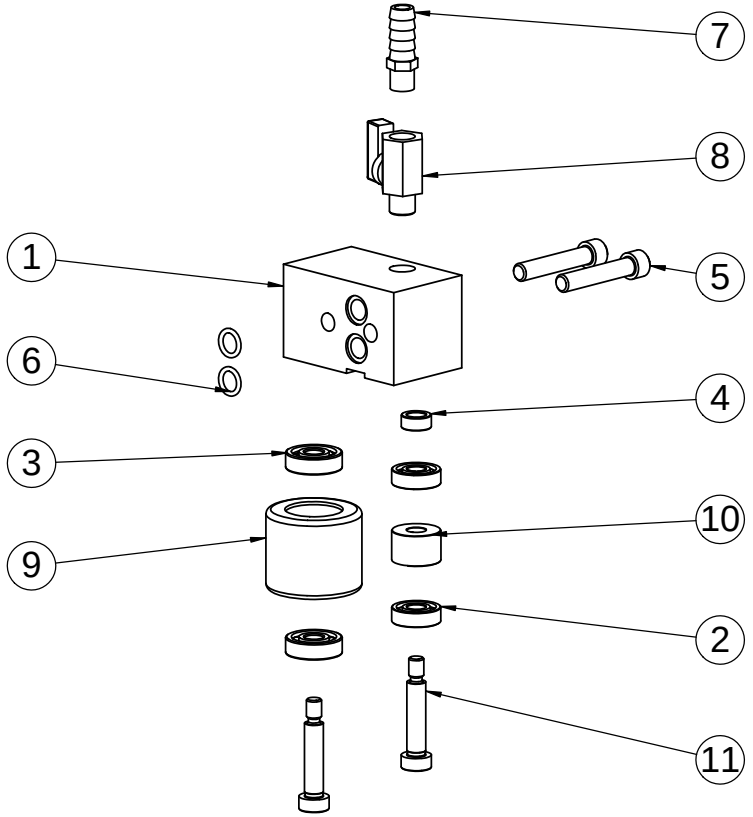
MATERIAL CODE:	MAT'L:	SAW CUT LENGTH	DRWN BY: MSILOS	CHKED BY:	SCALE	SHEET	REV
			DATE: OCT 2012	DATE:	1:32	1 OF 1	-

OVERALL DIMENSIONS
THK/OD WDTH/ID WALL/WT LENGTH

PART WEIGHT
COATING

DRAWING NUMBER: **H32SV-3-00**

ITEM#	PART NUMBER	DESCRIPTION	QUANTITY
1	AVR-471-01C	BLOCK, IDLER SIDE	1
2	340045	BEARING, BALL, 6000 2RS	2
3	340075	BEARING, BALL, 6200 2RS	2
4	AVR-471-02A	BUSHING	1
5	390730	Bolt, Socket Head, Cap, 0.375-16 x 2.00	2
6	362894	Seal, Oring, 0.625 x 0.437 x 0.094	2
7	H125HBL-8-4	FITTING	1
8	MV608-4	VALVE	1
9	AVR-461-05	BACK ROLLER RACE	1
10	AVR-471-05	BUSHING	1
11	395159	Bolt, Shoulder Screw, M10 - 1.5 x 16	2



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REVISIONS

REV	ECN NUMBER	DATE	BY
-	ECN00051	JAN 2013	WR
-	-	-	-

STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED

DIMENSIONS ARE IN INCHES

LINEAR
.X +/- .015 IN
.XX +/- .010 IN
.XXX +/- .005 IN
= 125 MICROINCHES

ANGULAR
X.X =/- 0.5 DEG

THIRD ANGLE PROJECTION

HYD - MECH
The Rock Solid Solution

HYD - MECH GROUP LIMITED
WOODSTOCK. ONTARIO. CANADA N4S 8A4

TITLE
ASSEMBLY, ANTI VIBRATION ROLLER, IDLER

MATERIAL CODE:	MAT'L:	SAW CUT LENGTH	DRWN BY: MSILOS	CHKED BY:	SCALE	SHEET	REV
ASSEMBLY			DATE: JAN 2013	DATE:	1:4	1 OF 1	-

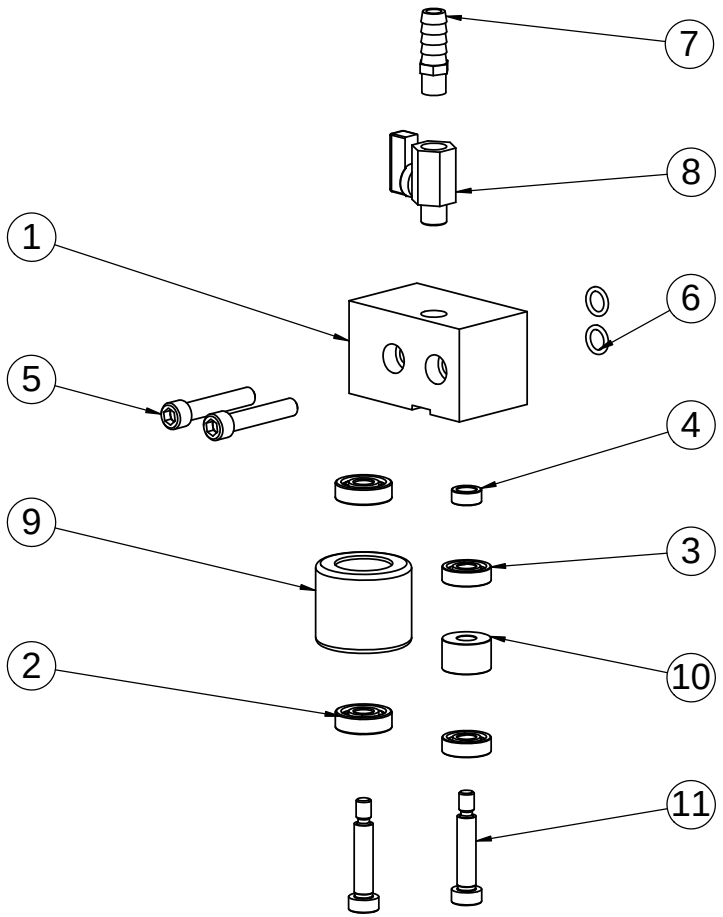
OVERALL DIMENSIONS
THK/OD WDTH/ID WALL/WT LENGTH

PART WEIGHT

COATING

DRAWING NUMBER: **AVR-474-00**

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	AVR-461A-01B	BLOCK, DRIVE SIDE	1
2	340075	BEARING, BALL, 6200 2RS	2
3	340045	BEARING, BALL, 6000 2RS	2
4	AVR-471-02A	BUSHING	1
5	390730	Bolt, Socket Head, Cap, 0.375-16 x 2.00	2
6	362894	Seal, Oring, 0.625 x 0.437 x 0.094	2
7	H125HBL-8-4	FITTING	1
8	MV608-4	VALVE	1
9	AVR-461-05	BACK ROLLER RACE	1
10	AVR-471-05	BUSHING	1
11	395159	Bolt, Shoulder Screw, M10 - 1.5 x 16	2



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REVISIONS

REV	ECN NUMBER	DATE	BY
-	ECN00051	JAN 2013	WR
-	-	-	-

STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED

DIMENSIONS ARE IN INCHES

LINEAR
.X +/- .015 IN
.XX +/- .010 IN
.XXX +/- .005 IN
= 125 MICROINCHES

ANGULAR
X.X =/- 0.5 DEG

THIRD ANGLE PROJECTION

HYD - MECH
The Rock Solid Solution

HYD - MECH GROUP LIMITED
WOODSTOCK. ONTARIO. CANADA N4S 8A4

TITLE
ASSEMBLY, ANTI VIBRATION ROLLER, DRIVE, SV ONLY

MATERIAL CODE:	MAT'L:	SAW CUT LENGTH	DRWN BY: MSILOS	CHKED BY:	SCALE	SHEET	REV
ASSEMBLY			DATE: JAN 2013	DATE:	1:4	1 OF 1	-

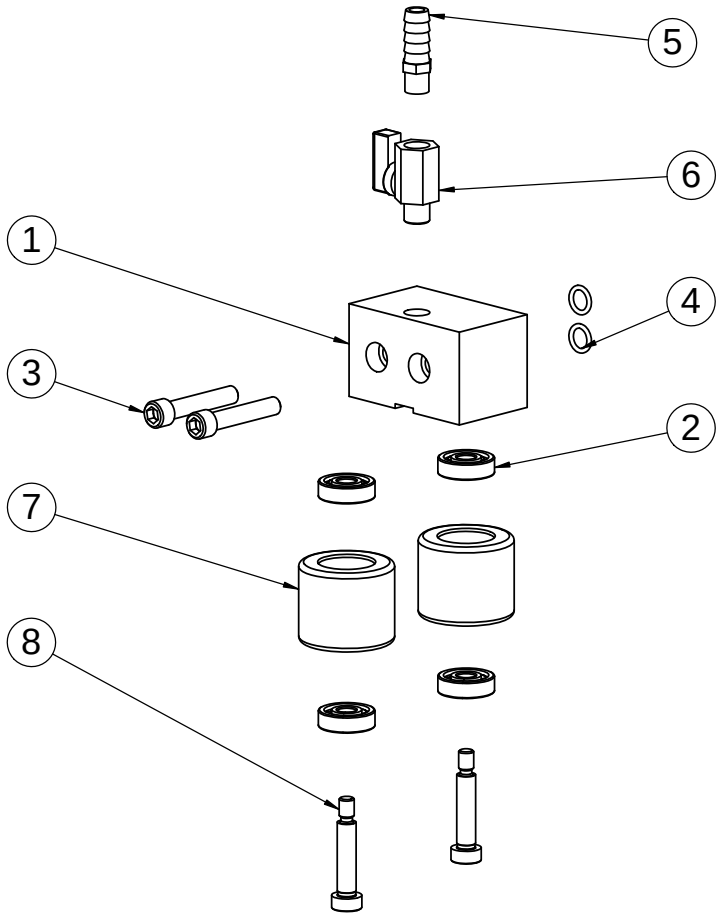
OVERALL DIMENSIONS
THK/OD WDTH/ID WALL/WT LENGTH

PART WEIGHT

COATING

DRAWING NUMBER: **AVR-465-00**

ITEM#	PART NUMBER	DESCRIPTION	QUANTITY
1	AVR-461-01B	BLOCK, DRIVE SIDE	1
2	340075	BEARING, BALL, 6200 2RS	4
3	390730	Bolt, Socket Head, Cap, 0.375-16 x 2.00	2
4	362894	Seal, Oring, 0.625 x 0.437 x 0.094	2
5	H125HBL-8-4	FITTING	1
6	MV608-4	VALVE	1
7	AVR-461-05	BACK ROLLER RACE	2
8	395159	Bolt, Shoulder Screw, M10 - 1.5 x 16	2



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THIRD ANGLE PROJECTION

HYD - MECH
The Rock Solid Solution

HYD - MECH GROUP LIMITED
WOODSTOCK. ONTARIO. CANADA N4S 8A4

TITLE
ASSEMBLY, ANTI VIBRATION ROLLER, DRIVE

MATERIAL CODE:	MAT'L:	SAW CUT LENGTH	DRWN BY: MSILOS	CHKED BY:	SCALE	SHEET	REV
ASSEMBLY			DATE: JAN 2013	DATE:	1:4	1 OF 1	-

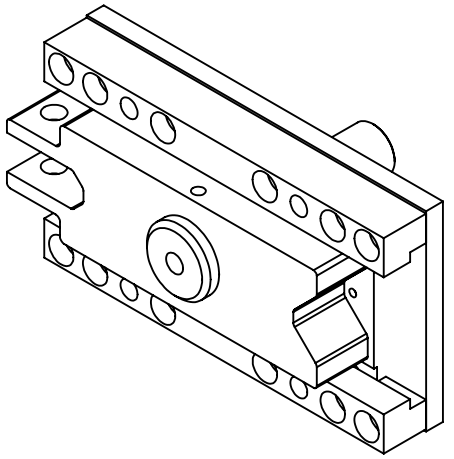
OVERALL DIMENSIONS
THK/OD WDTH/ID WALL/WT LENGTH

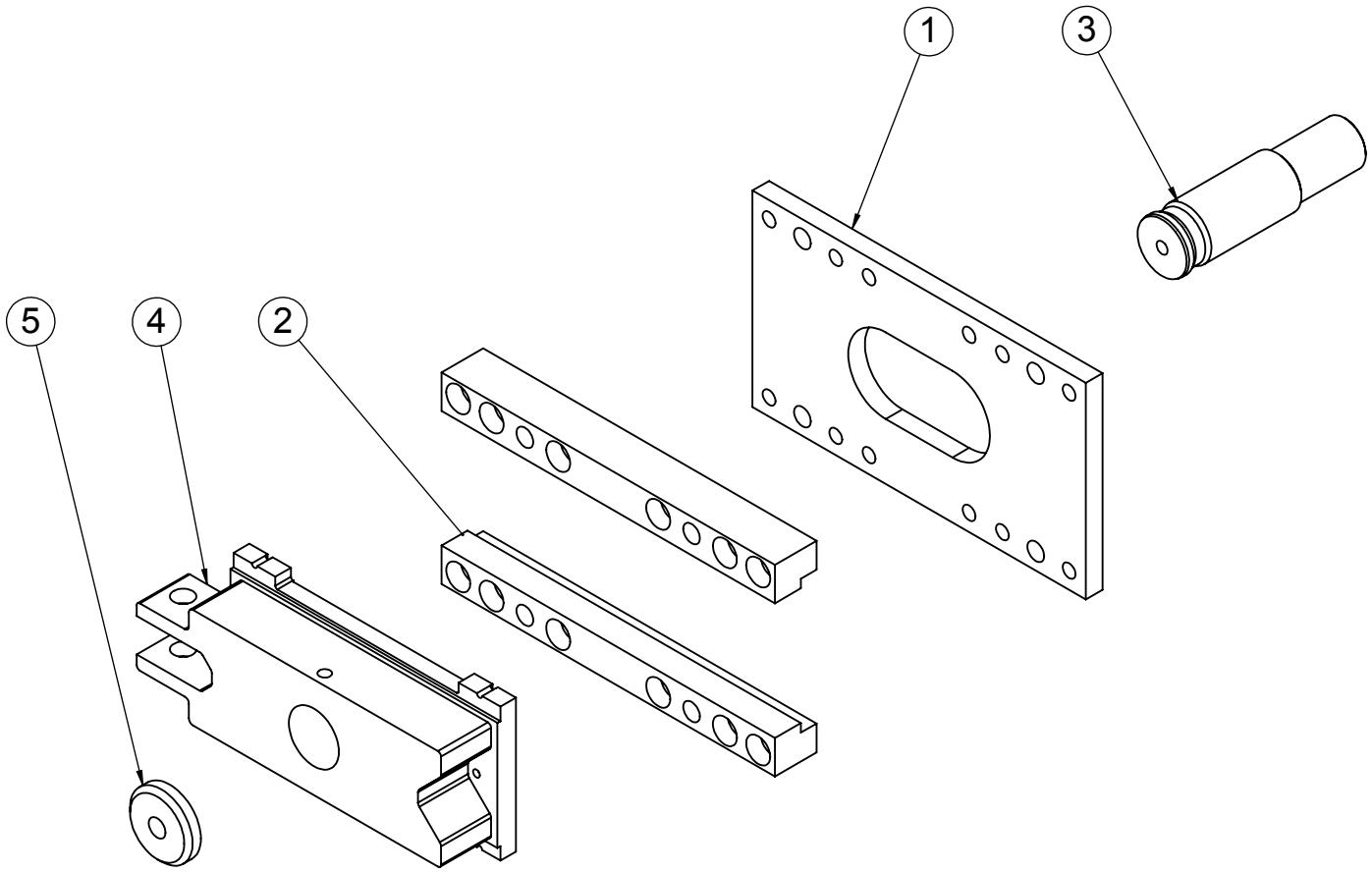
PART WEIGHT

COATING

DRAWING NUMBER: **AVR-464-00**

ITEM#	PART NUMBER	DESCRIPTION	QUANTITY
1	H22-43-01B	TENSION SLIDER BACK PLATE	1
2	H22-43-02	BLADE TENSION TRACK	2
3	H22-43-03A	SHAFT, IDLER WHEEL	1
4	M-H22-431-00	WELDMENT, SLIDER, MACHINED	1
5	H22SV-49-03	Cap, Retaining, Rear, A603 & A703 Gear Box	1





REVISIONS			
REV	ECN NUMBER	DATE	BY
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-	-	-	-

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THIRD ANGLE PROJECTION

HYD - MECH
The Rock Solid Solution

HYD - MECH GROUP LIMITED
WOODSTOCK, ONTARIO, CANADA N4S 8A4

TITLE
IDLER WHEEL SLIDER ASSEMBLY

MATERIAL CODE:	MAT'L:	SAW CUT LENGTH	DRWN BY: MSILOS DATE: OCT 2012	CHKED BY: DATE:	SCALE 1:8	SHEET 1 OF 1	REV -

OVERALL DIMENSIONS
THK/OD WDTH/ID WALL/WT LENGTH

PART WEIGHT

COATING

DRAWING NUMBER: **H28SV-43-00**

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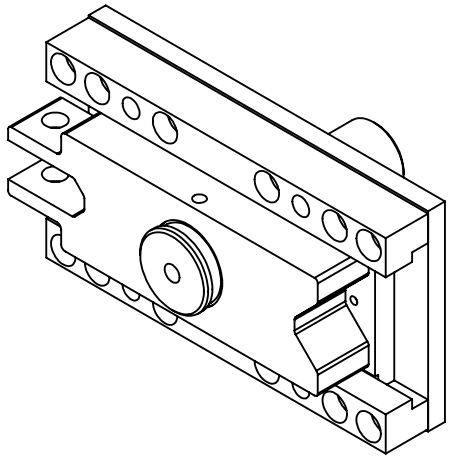
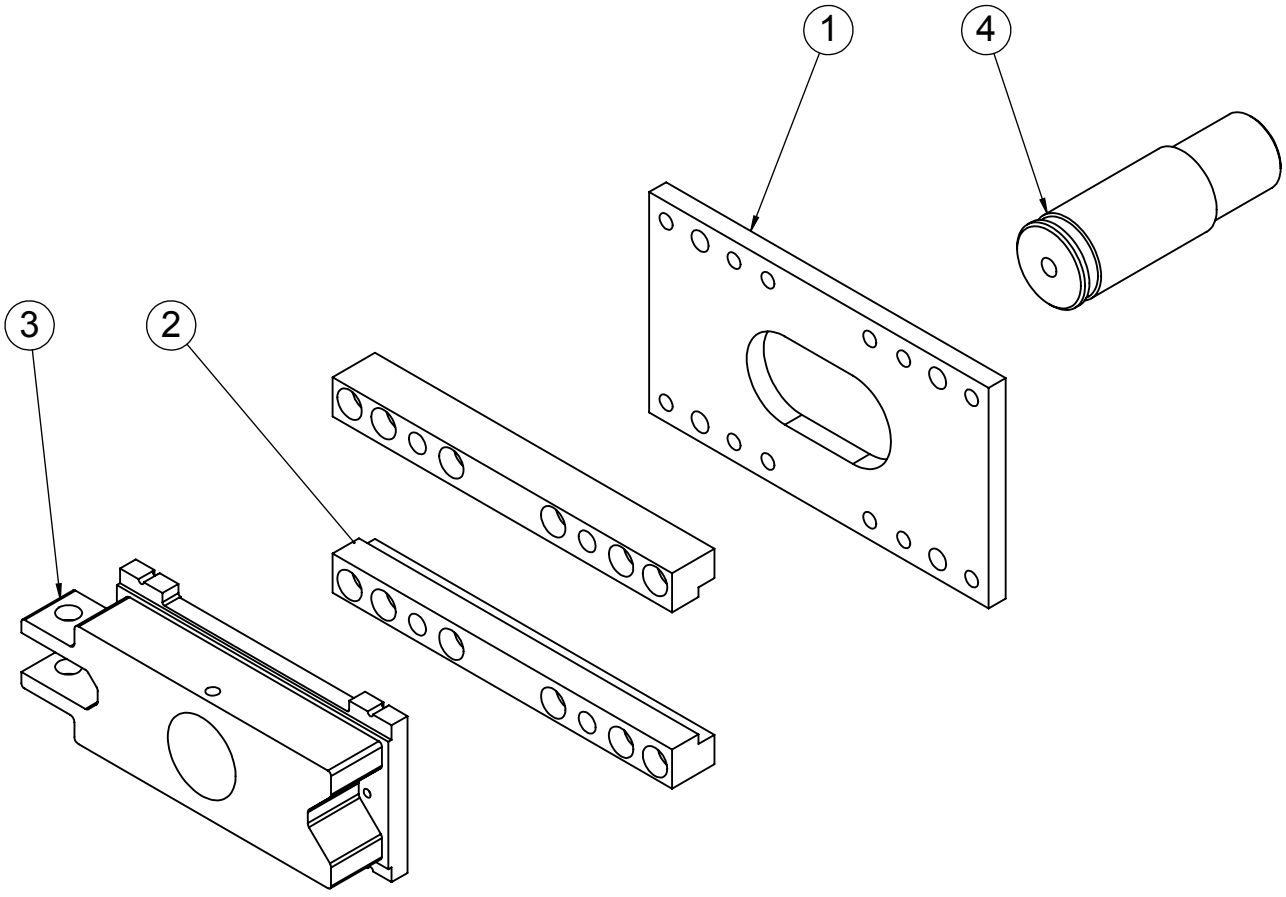
ITEM#	PART NUMBER	DESCRIPTION	QUANTITY
1	H22-43-01B	TENSION SLIDER BACK PLATE	1
2	H22-43-02	BLADE TENSION TRACK	2
3	H32-431-00	WELDMENT, SLIDER, MACHINED	1
4	H32-43A-03B	BLADE TENSION SHAFT	1





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THIRD ANGLE PROJECTION

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The Rock Solid Solution

HYD - MECH GROUP LIMITED
WOODSTOCK, ONTARIO, CANADA N4S 8A4

TITLE
IDLER WHEEL SLIDER ASSEMBLY

MATERIAL CODE:	MAT'L:	SAW CUT LENGTH	DRWN BY: MSILOS	CHKED BY:	SCALE	SHEET	REV
			DATE: OCT 2012	DATE:	1:8	1 OF 1	-

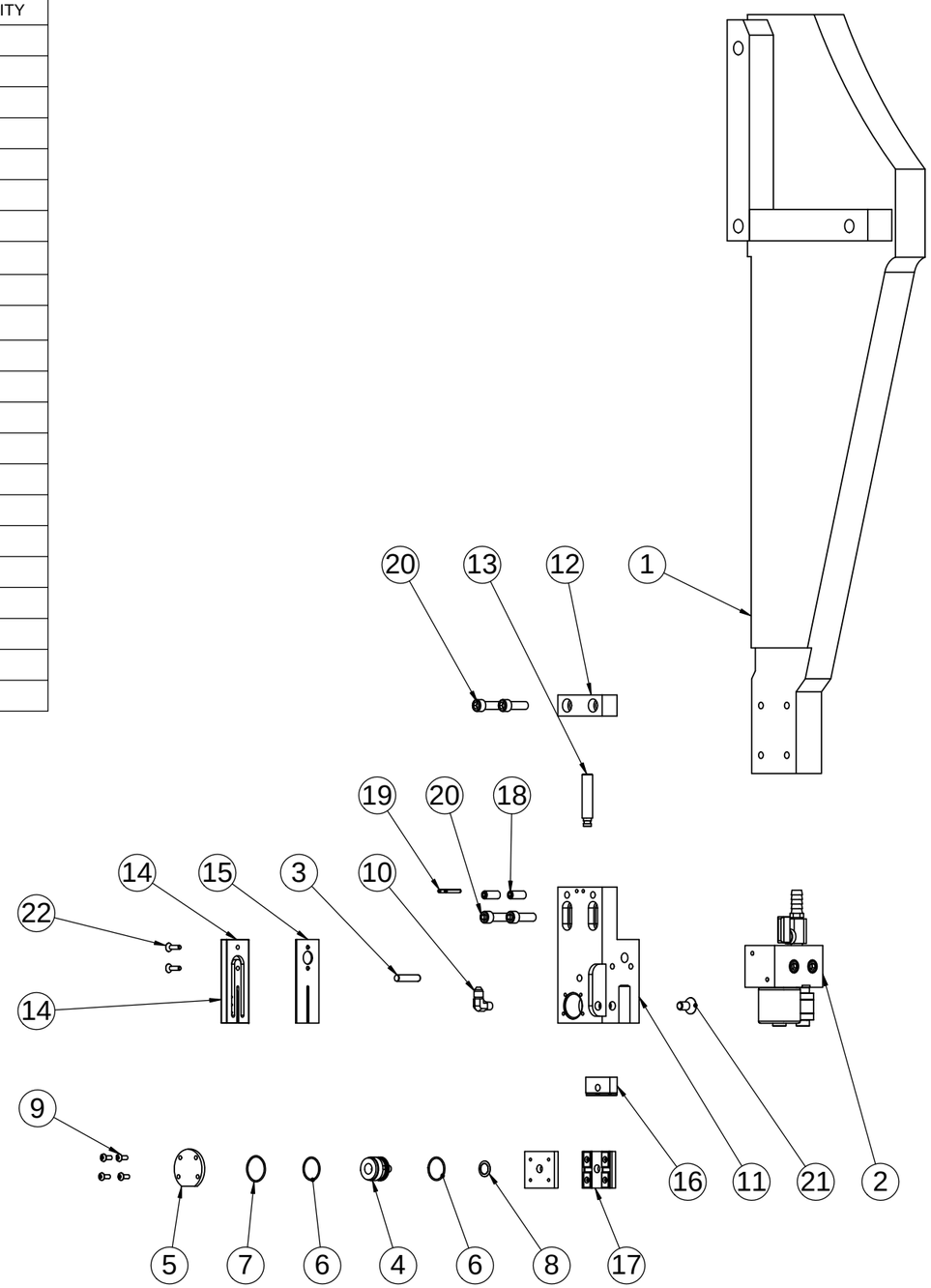
OVERALL DIMENSIONS
THK/OD WDTH/ID WALL/WT LENGTH

PART WEIGHT

COATING

DRAWING NUMBER: **H32-43A-00**

ITEM#	PART NUMBER	DESCRIPTION	QUANTITY
1	H28SV-461-00	GUIDE ARM WELDMENT - DRIVE SIDE	1
2	AVR-465-00	ASSEMBLY, ANTI VIBRATION ROLLER, DRIVE, SV ONLY	1
3	395254	PIN, DOWEL, 0.312 X 1.50	1
4	H22SV-47-04	PISTON, CARBIDE LOCKING	1
5	H22SV-47-05	COVER, CARBIDE LOCKING CYLINDER	1
6	362932	Seal, Oring, 1.125 x .1.00 x .0625	2
7	362933	Seal, Oring, 1.25 x 1.125 x .0625	1
8	394880	Washer, Spring Tension, Belleville, 0.505 x 0.75 x 015, W-270	1
9	390025	Bolt, Button Head Cap Screw, 10-24 x 0.50	4
10	360530	Fitting, Hydraulic, Steel, Elbow Adapter 90 MNPT-MJIC, 2103-2-4	1
11	H22SV-462-01	CARBIDE BLOCK - DRIVE SIDE	1
12	H22SV-462-02	MTG BLOCK	1
13	H22SV-461-04	ADJUSTING SCREW, GUIDE ARM BLOCK	1
14	COOL201A	COOLANT NOZZLE	1
15	COOL202D	BACK PLATE	1
16	CRBTOP-00	ASSEMBLY, TOP CARBIDE	1
17	CRB200-22-00	CARBIDE PAD - REAR 2" BLADE	2
18	394005	Screw, Set, Cup Point, 0.375-16 x 1.00	2
19	393690	Roll pin, 0.156 X 1.00	2
20	390720	Bolt, Socket Head, Cap, 0.375 - 16 x 1.25	4
21	390625	Bolt, Socket Head, Flat, 0.375 - 16 x 0.75	1
22	390600	Bolt, Socket Head, Flat, 10-24 x 0.75	2



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THIRD ANGLE PROJECTION

HYD - MECH
The Rock Solid Solution

HYD - MECH GROUP LIMITED
WOODSTOCK, ONTARIO, CANADA N4S 8A4

TITLE
ASSEMBLY, GUIDE ARM, DRIVE SIDE

MATERIAL CODE:	MAT'L:	SAW CUT LENGTH	DRWN BY: MSILOS	CHKED BY:	SCALE	SHEET	REV
ASSEMBLY			DATE: OCT 2012	DATE:	1:7	1 OF 1	-

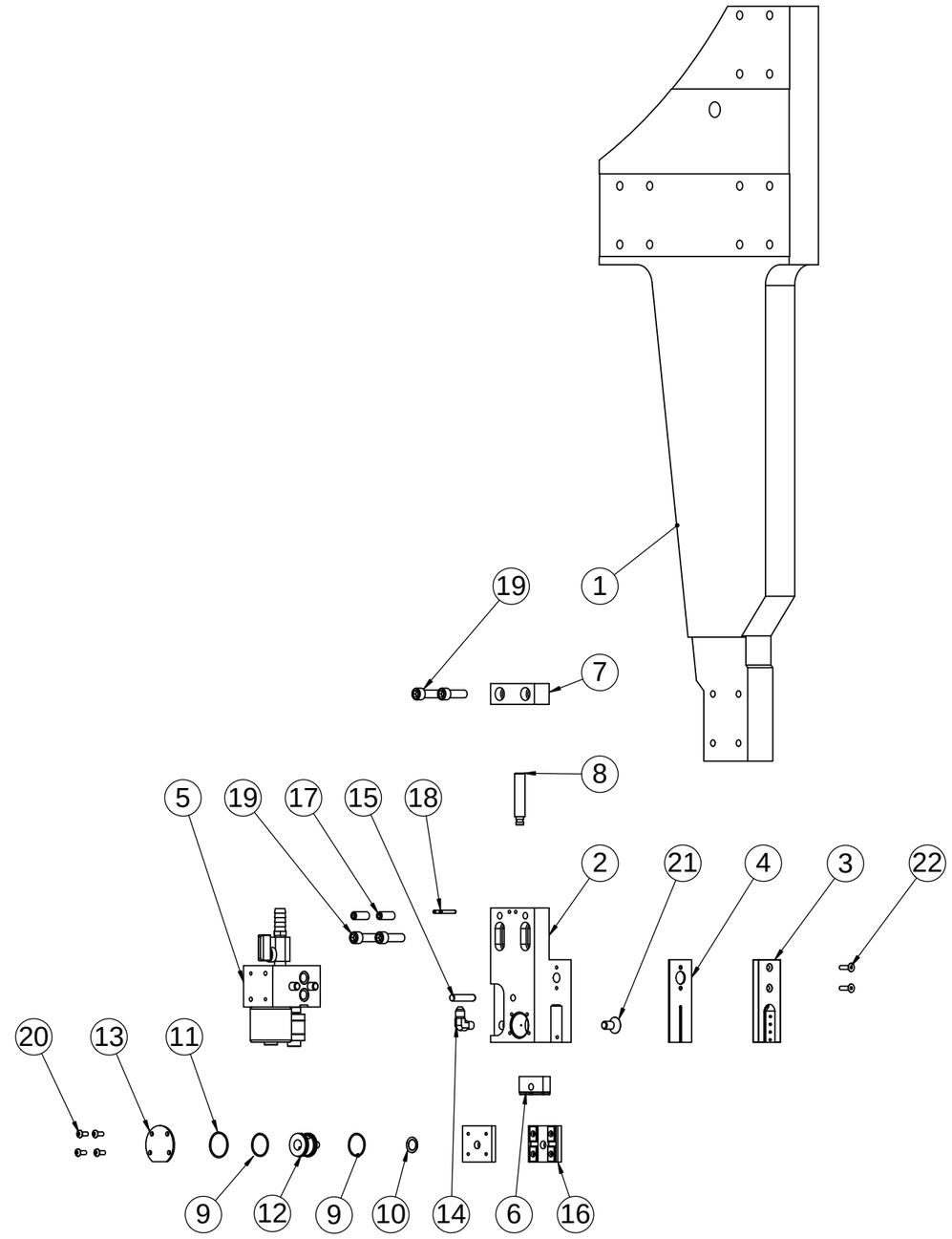
OVERALL DIMENSIONS
THK/OD WDTH/ID WALL/WT LENGTH

PART WEIGHT

COATING

DRAWING NUMBER: **H28SV-46-00**

ITEM#	PART NUMBER	DESCRIPTION	QUANTITY
1	H28SV-471-01	GUIDE ARM - IDLER SIDE	1
2	H22SV-472-01A	CARBIDE BLOCK - IDLER SIDE	1
3	COOL201A	COOLANT NOZZLE	1
4	COOL202	BACK PLATE	1
5	AVR-474-00	ASSEMBLY, ANTI VIBRATION ROLLER, IDLER	1
6	CRBTOP-00	ASSEMBLY, TOP CARBIDE	1
7	H22SV-462-02	MTG BLOCK	1
8	H22SV-461-04	ADJUSTING SCREW, GUIDE ARM BLOCK	1
9	362932	Seal, Oring, 1.125 x .1.00 x .0625	2
10	394880	Washer, Spring Tension, Belleville, 0.505 x 0.75 x 015, W-270	1
11	362933	Seal, Oring, 1.25 x 1.125 x .0625	1
12	H22SV-46-04	PISTON	1
13	H22SV-46-05	COVER	1
14	360530	Fitting, Hydraulic, Steel, Elbow Adapter 90 MNPT-MJIC, 2103-2-4	1
15	395254	PIN, DOWEL, 0.312 X 1.50	1
16	CRB200-22-00	CARBIDE PAD - REAR 2" BLADE	2
17	394005	Screw, Set, Cup Point, 0.375-16 x 1.00	2
18	393690	Roll pin, 0.156 X 1.00	2
19	390720	Bolt, Socket Head, Cap, 0.375 - 16 x 1.25	4
20	390025	Bolt, Button Head Cap Screw, 10-24 x 0.50	4
21	390625	Bolt, Socket Head, Flat, 0.375 - 16 x 0.75	1
22	390600	Bolt, Socket Head, Flat, 10-24 x 0.75	2



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THIRD ANGLE PROJECTION

HYD - MECH
The Rock Solid Solution

HYD - MECH GROUP LIMITED
WOODSTOCK. ONTARIO. CANADA N4S 8A4

TITLE
ASSEMBLY, GUIDE ARM, IDLER SIDE

MATERIAL CODE:	MAT'L:	SAW CUT LENGTH	DRWN BY: MSILOS	CHKED BY:	SCALE	SHEET	REV
ASSEMBLY			DATE: OCT 2012	DATE:	1:7	1 OF 1	-

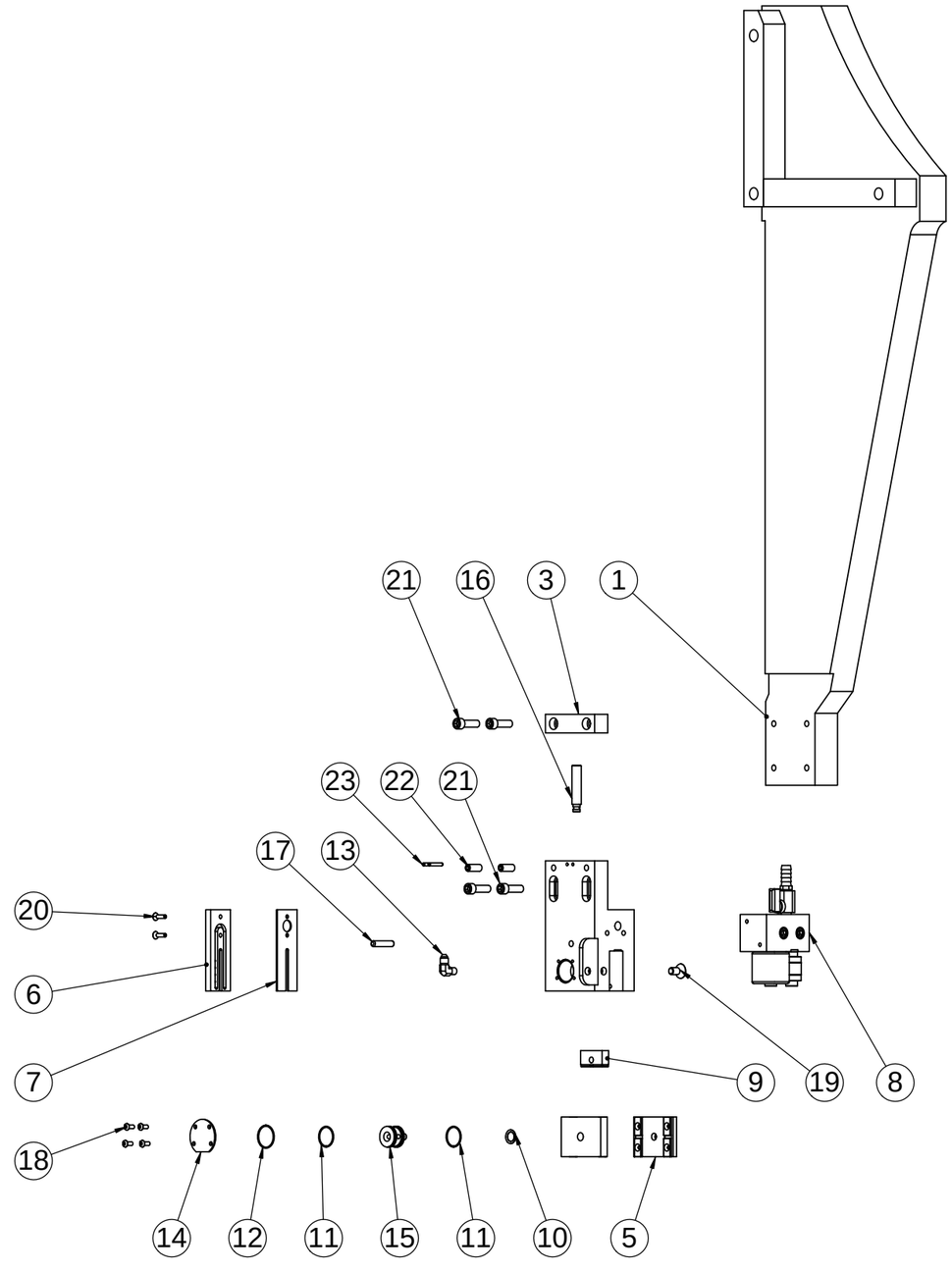
OVERALL DIMENSIONS
THK/OD WDTH/ID WALL/WT LENGTH

PART WEIGHT

COATING

DRAWING NUMBER: **H28SV-47-00**

ITEM#	PART NUMBER	DESCRIPTION	QUANTITY
1	M-H32SV-461-00	GUIDE ARM WELDMENT - DRIVE SIDE	1
2	H32SV-462-01	CARBIDE BLOCK - DRIVE SIDE	1
3	H32SV-462-02	MTG BLOCK	1
4	CRB262-31A-00	CARBIDE PLATE - REAR	1
5	CRB262-32A-00	CARBIDE PAD - FRONT	1
6	COOL321	Coolant Nozzle	1
7	COOL322B	NOOZLE, COOLANT, BACK PLATE	1
8	AVR-465-00	ASSEMBLY, ANTI VIBRATION ROLLER, DRIVE, SV ONLY	1
9	CRBTOP-00	ASSEMBLY, TOP CARBIDE	1
10	394880	Washer, Spring Tension, Belleville, 0.505 x 0.75 x 015, W-270	1
11	362932	Seal, Oring, 1.125 x .1.00 x .0625	2
12	362933	Seal, Oring, 1.25 x 1.125 x .0625	1
13	360530	Fitting, Hydraulic, Steel, Elbow Adapter 90 MNPT-MJIC, 2103-2-4	1
14	H22SV-46-05	COVER	1
15	H22SV-46-04	PISTON	1
16	H22SV-461A-04	ADJUSTING SCREW, GUIDE ARM BLOCK	1
17	395254	PIN, DOWEL, 0.312 X 1.50	1
18	390025	Bolt, Button Head Cap Screw, 10-24 x 0.50	4
19	390625	Bolt, Socket Head, Flat, 0.375 - 16 x 0.75	1
20	390600	Bolt, Socket Head, Flat, 10-24 x 0.75	2
21	390720	Bolt, Socket Head, Cap, 0.375 - 16 x 1.25	4
22	394005	Screw, Set, Cup Point, 0.375-16 x 1.00	2
23	393690	Roll pin, 0.156 X 1.00	2



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The Rock Solid Solution

HYD - MECH GROUP LIMITED
WOODSTOCK, ONTARIO, CANADA N4S 8A4

TITLE
ASSEMBLY, GUIDE ARM, DRIVE SIDE

MATERIAL CODE:	MAT'L:	SAW CUT LENGTH	DRWN BY: MSILOS	CHKED BY:	SCALE	SHEET	REV
ASSEMBLY			DATE: OCT 2012	DATE:	1:8	1 OF 1	-

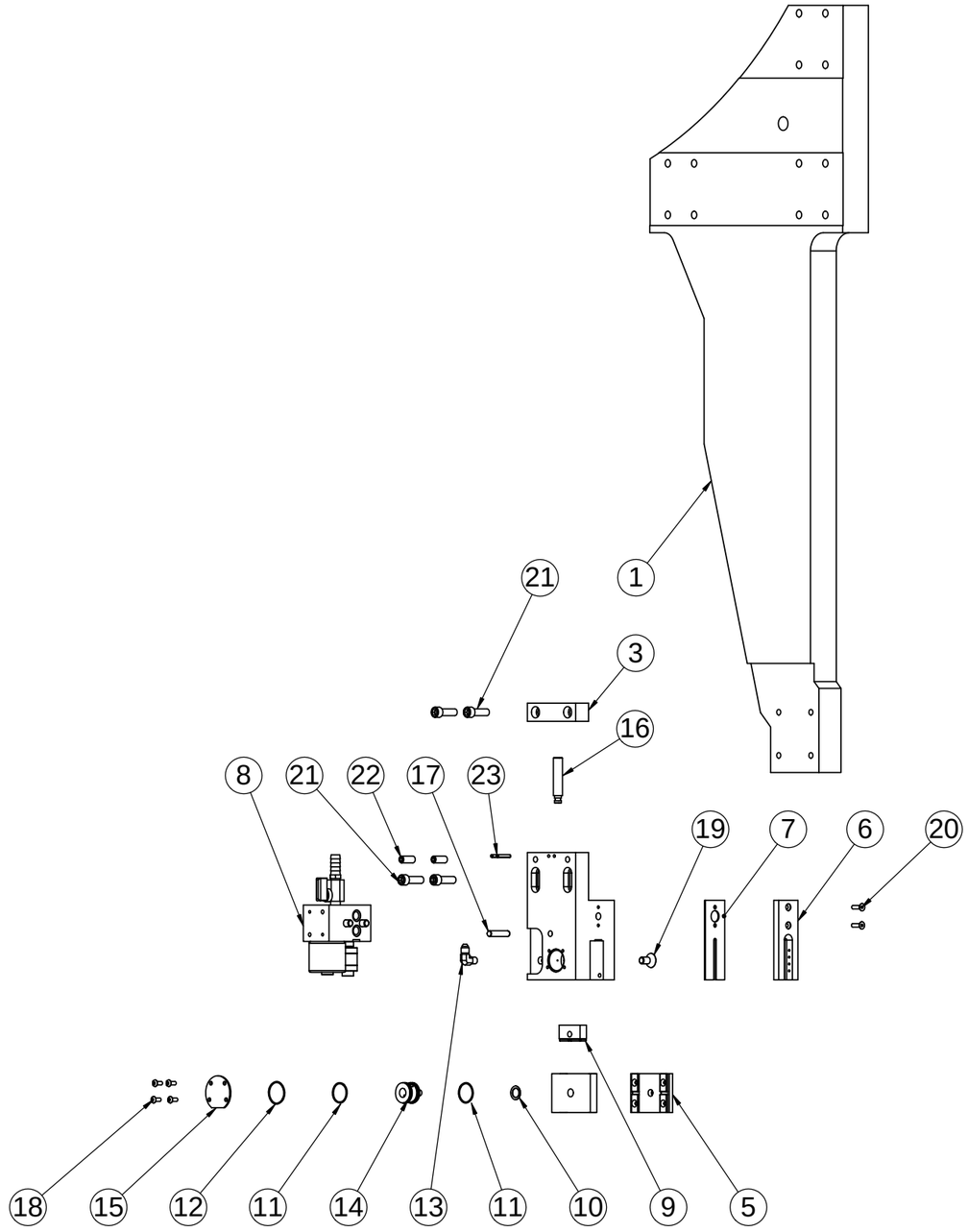
OVERALL DIMENSIONS
THK/OD WDTH/ID WALL/WT LENGTH

PART WEIGHT

COATING

DRAWING NUMBER: **H32SV-46-00**

ITEM#	PART NUMBER	DESCRIPTION	QUANTITY
1	H32SV-471-01	GUIDE ARM - IDLER SIDE	1
2	H32SV-472-01A	CARBIDE BLOCK - IDLER SIDE	1
3	H32SV-462-02	MTG BLOCK	1
4	CRB262-31A-00	CARBIDE PLATE - REAR	1
5	CRB262-32A-00	CARBIDE PAD - FRONT	1
6	COOL321	Coolant Nozzle	1
7	COOL322B	NOOZLE, COOLANT, BACK PLATE	1
8	AVR-474-00	ASSEMBLY, ANTI VIBRATION ROLLER, IDLER	1
9	CRBTOP-00	ASSEMBLY, TOP CARBIDE	1
10	394880	Washer, Spring Tension, Belleville, 0.505 x 0.75 x 015, W-270	1
11	362932	Seal, Oring, 1.125 x .1.00 x .0625	2
12	362933	Seal, Oring, 1.25 x 1.125 x .0625	1
13	360530	Fitting, Hydraulic, Steel, Elbow Adapter 90 MNPT-MJIC, 2103-2-4	1
14	H22SV-46-04	PISTON	1
15	H22SV-46-05	COVER	1
16	H22SV-461A-04	ADJUSTING SCREW, GUIDE ARM BLOCK	1
17	395254	PIN, DOWEL, 0.312 X 1.50	1
18	390025	Bolt, Button Head Cap Screw, 10-24 x 0.50	4
19	390625	Bolt, Socket Head, Flat, 0.375 - 16 x 0.75	1
20	390600	Bolt, Socket Head, Flat, 10-24 x 0.75	2
21	390720	Bolt, Socket Head, Cap, 0.375 - 16 x 1.25	4
22	394005	Screw, Set, Cup Point, 0.375-16 x 1.00	2
23	393690	Roll pin, 0.156 X 1.00	2



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HYD - MECH
The Rock Solid Solution

HYD - MECH GROUP LIMITED
WOODSTOCK, ONTARIO, CANADA N4S 8A4

TITLE
ASSEMBLY, GUIDE ARM, IDLER SIDE

MATERIAL CODE:	MAT'L:	SAW CUT LENGTH	DRWN BY: MSILOS	CHKED BY:	SCALE	SHEET	REV
ASSEMBLY			DATE: OCT 2012	DATE:	1:8	1 OF 1	-

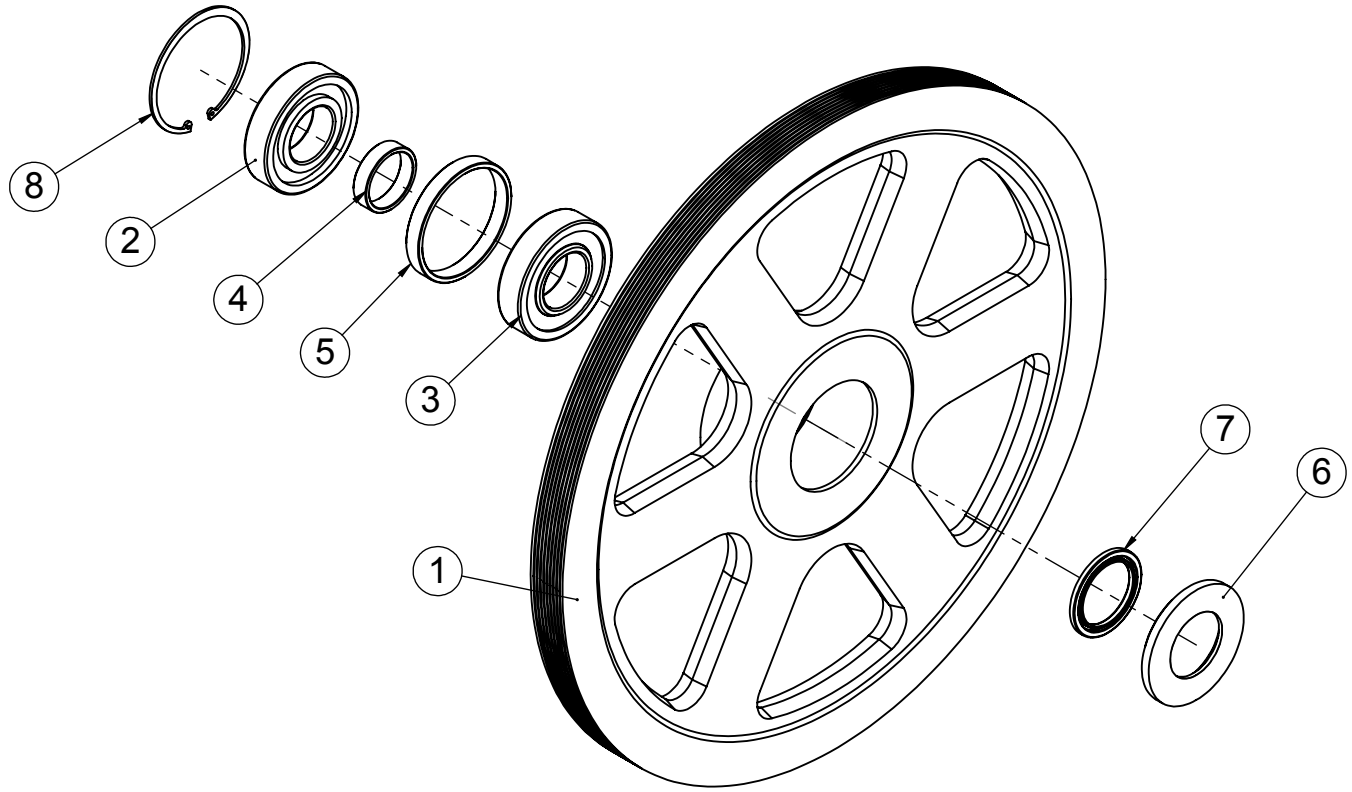
OVERALL DIMENSIONS
THK/OD WDTH/ID WALL/WT LENGTH

PART WEIGHT

COATING

DRAWING NUMBER: **H32SV-47-00**

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	W32-44-01	IDLER WHEEL, MACHINED	1
2	340135	BEARING, BALL, 6313 2RS	1
3	340160	BEARING, ROLLER, NU313W	1
4	W27-45-02	SPACER, BEARING, IDLER WHEEL	1
5	W27-45-03	SPACER, BEARING, OD, IDLER WHEEL	1
6	W32-45-02	ADAPTER, SEAL	1
7	362866	Seal, Oil, CR27790	1
8	393640	RING, RETAINING, INTERNAL, 5.5	1



REVISIONS

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THIRD ANGLE PROJECTION

HYD - MECH
The Rock Solid Solution

HYD - MECH GROUP LIMITED
WOODSTOCK, ONTARIO, CANADA N4S 8A4

TITLE
IDLER WHEEL ASSY

MATERIAL CODE:	MAT'L:	SAW CUT LENGTH	DRWN BY: W.R.	CHKED BY:	SCALE	SHEET	REV
ASSEMBLY		0	DATE: 11/8/07	DATE:	1:8	1 OF 1	-

OVERALL DIMENSIONS
THK/OD WDTH/ID WALL/WT LENGTH

PART WEIGHT 261.22

COATING

DRAWING NUMBER: **W32-45-00**

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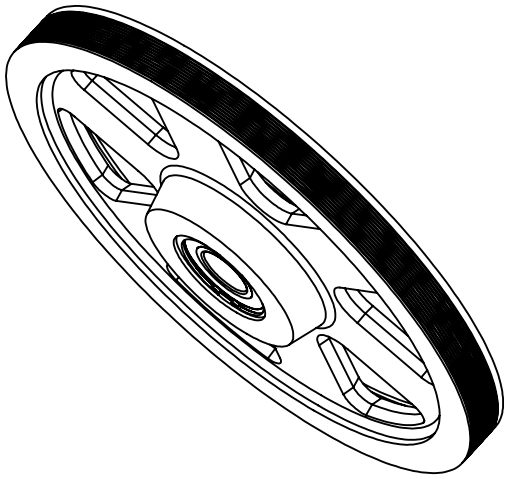
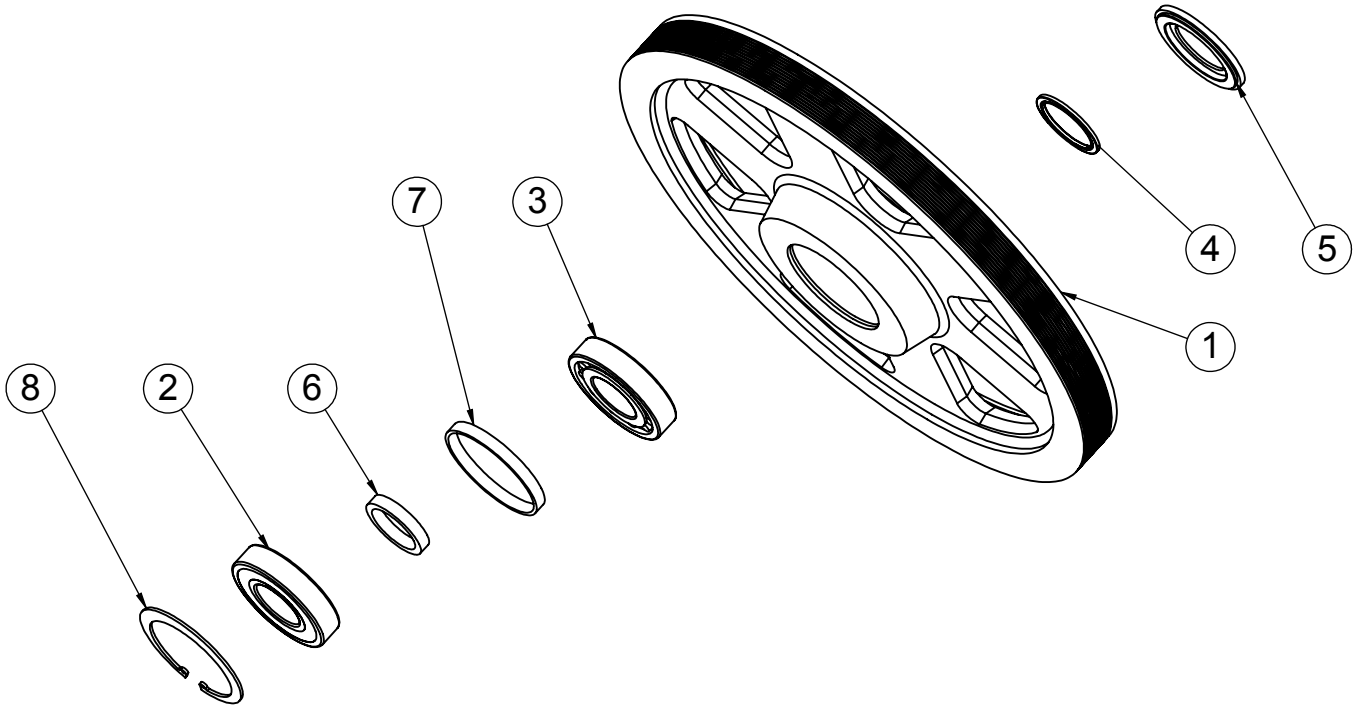
ITEM#	PART NUMBER	DESCRIPTION	QUANTITY
1	W38-45-01	Wheel, Drive, 38 In, Machined	1
2	340145	BEARING, BALL, 6318 2RS	1
3	340175	BEARING, CYLINDRICAL ROLLER, NU318E	1
4	362855	Seal, Oil, CR39961	1
5	W45-45-02	SEAL ADAPTER	1
6	W45-45-03	IDLER WHEEL-BEARING SPACER	1
7	W45-45-04	IDLER WHEEL-BRG UOTER SPACER	1
8	393645	RING, RETAINING, INTERNAL, 7.5	1





REVISIONS

REV	ECN NUMBER	DATE	BY
-	-	-	-
-	-	-	-

STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED

DIMENSIONS ARE IN INCHES

LINEAR
.X +/- .015 IN
.XX +/- .010 IN
.XXX +/- .005 IN
= 125 MICROINCHES

ANGULAR
X.X =/- 0.5 DEG

THIRD ANGLE PROJECTION

HYD - MECH
The Rock Solid Solution

HYD - MECH GROUP LIMITED
WOODSTOCK, ONTARIO, CANADA N4S 8A4

TITLE
38" IDLER WHEEL ASSEMBLY

MATERIAL CODE:	MAT'L:	SAW CUT LENGTH	DRWN BY:	CHKED BY:	SCALE	SHEET	REV
			DATE: Jan 30, 2012	DATE: Jan 30, 2012	1:12	1 OF 1	-

OVERALL DIMENSIONS
THK/OD WDTH/ID WALL/WT LENGTH

PART WEIGHT

COATING

DRAWING NUMBER: **W38-45-00**

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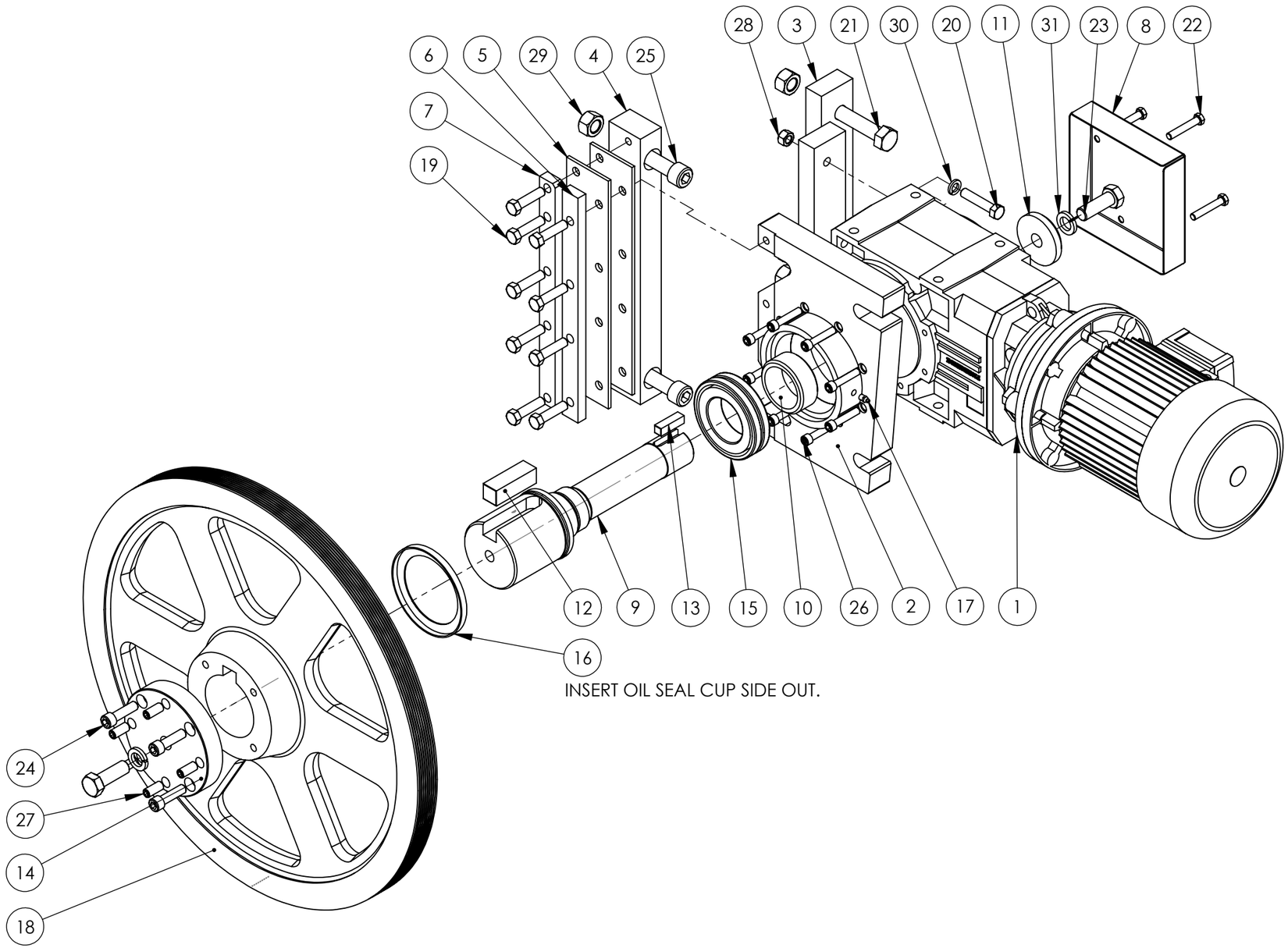
ALL RIGHTS RESERVED.

ITEM #	QTY.	PART #	DESCRIPTION
1	1	345527	Gearmotor, 10HP, A603, Compact, 230V/460V
2	1	H28-491-00	Weldment, Adapter, A603 Gear Box, Machined
3	1	M-H28-492-00	Weldment, Tracking Adjuster, Machined
4	1	H28-49-05	Bar, Mounting, Hinge
5	2	H28-49-06	Plate, Hinge
6	1	H28-49-07	Bar, Clamp, Hinge, Box Side
7	1	H28-49-08	Bar, Clamp, Hinge, Head Side
8	1	H18SV-49-04	Guard, Shaft, Rear, A503 & A603 Gear Box
9	1	H22SV-49-01D	Shaft, A603 Gear Box
10	1	H22SV-49-02	Spacer, Shaft, A603 Gear Box
11	1	H22SV-49-03	Cap, Retaining, Rear, A603 & A703 Gear Box
12	1	H22SV-49-05	Key, Drive Wheel, A603 & A703
13	1	H22SV-49-06	Key, Gear Box, A603
14	1	M-H22-44-02	Cap, Retaining, Drive Wheel, Machined
15	1	340279	Bearing, Roller, 22217
16	1	362861	Seal, Oil, CR51140
17	1	391195	Fitting, Grease, 45 Degree, 0.125 NPT
18	1	W32-44-01	Wheel, Blade Drive, Machined
19	9	390265	Bolt, Hex Head Cap, 0.6250-11x2.50
20	2	390270	Bolt, Hex Head Cap, 0.6250-11x3.00
21	2	390405	Bolt, Hex Head, Cap, 1.0 - 1 x 5.0
22	4	390437	Bolt, Hex Head Cap, M12 x 1.75 x 70
23	2	390439	Bolt, Hex Head Cap, M24 - 3.0 x 70
24	4	390822	Bolt, Socket Head, Cap, 0.625 - 11 x 2.25
25	2	390837	Bolt, Socket Head, Cap, 1.0 - 8 x 5.0
26	8	390438	Bolt, Socket Head, Cap, M12 - 1.75 x 60
27	4	394185	Screw, Set, Flat Point, 0.625 - 11 x 1.5
28	2	392870	Nut, Hex, 0.625 - 11
29	4	393019	Nut, Lock, 1.0 - 8
30	2	394780	Washer, Lock, 0.625
31	2	394795	Washer, Lock, 1.0



INSERT OIL SEAL CUP SIDE OUT.

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REVISIONS

REV	ECN NUMBER	DATE	BY

STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED

DIMENSIONS ARE IN INCHES

LINEAR
.X +/- .015 IN
.XX +/- .010 IN
.XXX +/- .005 IN
= 125 MICROINCHES

ANGULAR
X.X =/- 0.5 DEG

THIRD ANGLE PROJECTION

HYD - MECH
The Rock Solid Solution

HYD - MECH GROUP LIMITED
WOODSTOCK, ONTARIO, CANADA N4S 8A4

TITLE
KIT, BLADE DRIVE, A603 GEAR BOX

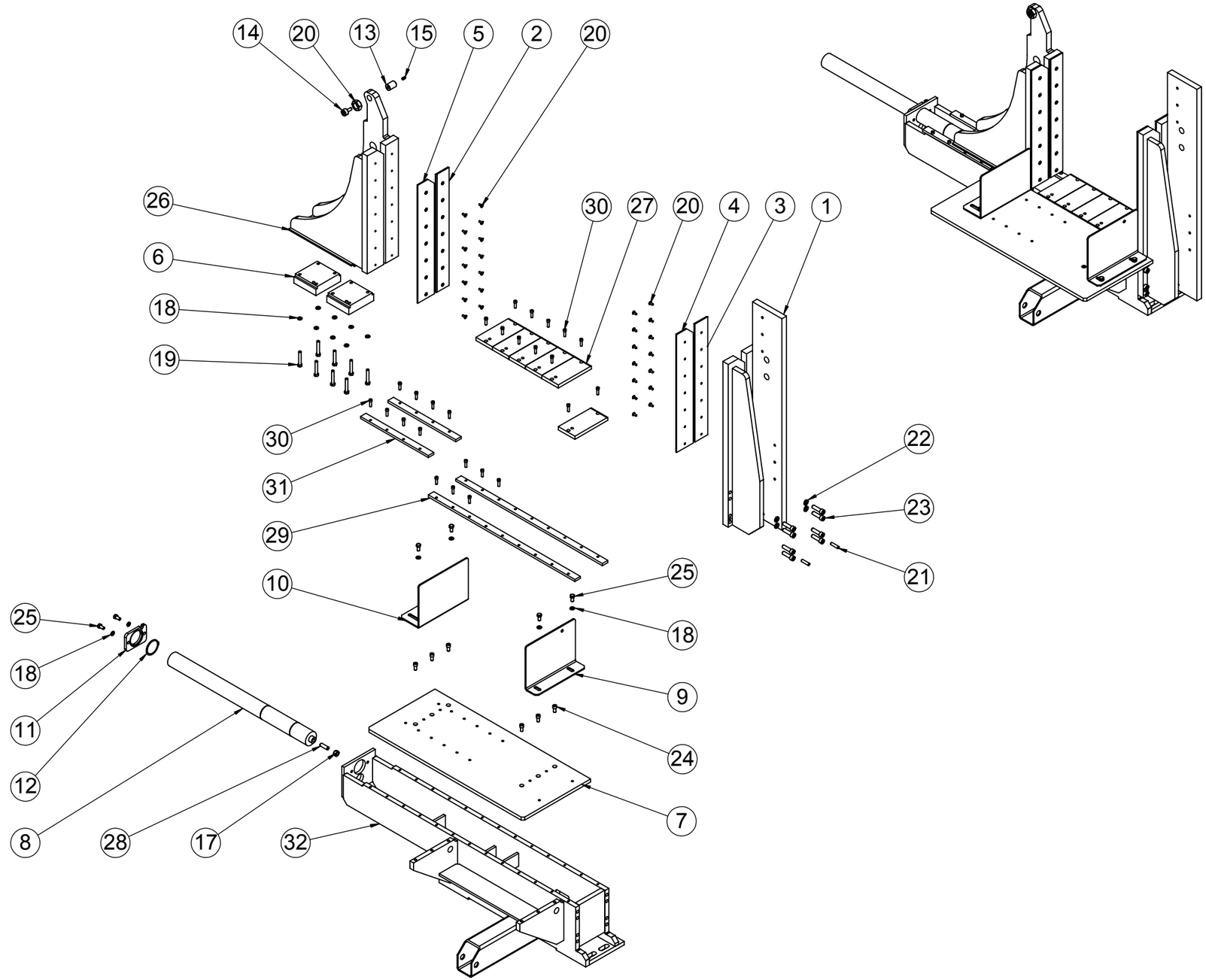
MATERIAL CODE:	MAT'L:	SAW CUT LENGTH	DRWN BY: M.S. DATE: 11/29/04	CHKED BY: DATE:	SCALE 1:8	SHEET 1 OF 1	REV -

OVERALL DIMENSIONS: THK/OD | WDTH/ID | WALL/WT | LENGTH

PART WEIGHT | COATING

DRAWING NUMBER: **H28-49-00**

ITEM#	PART NUMBER	DESCRIPTION	QUANTITY
1	M-H28SV-512-00A	FRONT VISE DATUM JAW	1
2	H28SV-5-01	Wear Strip	1
3	H28SV-5-02	WEARSTRIP	1
4	H28SV-5-05	WEARSTRIP	1
5	H28SV-5-06	WEARSTRIP	1
6	H32SV-5-04	VISE SLIDER	2
7	H32SV-2-07B	OUTFEED TABLE	1
8	H32SV-C31-00	Assembly, Cylinder, Front Vise	1
9	H18SV-2-08A	FIXED FENCE	1
10	H18SV-2-09	ADJUSTABLE FENCE	1
11	H22-5-05B	Plate, Cylinder Mounting	1
12	393575	Ring, Retaining, External 3.00	1
13	H32SV-514-01	ROLLER HOLDER	1
14	340739	Cam Follower, 1 1/4	1
15	391175	FITTING, GREASE STRAIGHT, 0.125 NPT	1
20	392950	Nut, Jam, 1.25-12	1
17	392875	Nut, Hex, 0.625-18	1
18	394775	Washer, Lock, 0.5	14
19	390475	Bolt, Hex Head, Cap, 0.50 - 13 x 3.00	8
20	390645	Bolt, Socket Head, Flat, 0.3125 - 18 x 0.75	28
21	394069	Screw, Set, Cup, 0.50 - 13 x 2.0	2
22	394780	Washer, Lock, 0.625	4
23	390822	Bolt, Socket Head, Cap, 0.625 - 11 x 2.25	8
24	390751	Bolt, Socket Head, Cap, 0.5 - 13 x 1.0	6
25	390165	Bolt, Hex Head Cap, 0.5-13 X 1	6
26	M-H28SV-513-00B	FRONT VISE MOVEABLE JAW	1
27	H32SV-2-06A	VISE INSERT	6
28	394087	SCREW, SET, CUP POINT, 0.625-18 x 2.0	1
29	H22SV-51-01	FRONT VISE WAY	2
30	390720	Bolt, Socket Head, Cap, 0.375 - 16 x 1.25	26
31	H32SV-51-01C	GUIDE RAIL	2
32	H32SV-511-00F	FRONT VISE FRAME	1



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REVISIONS

REV	ECN NUMBER	DATE	BY
-	ECN00080	JAN 2014	MS
-	-	-	-

STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED

DIMENSIONS ARE IN INCHES

LINEAR
.X +/- .015 IN
.XX +/- .010 IN
.XXX +/- .005 IN
= 125 MICROINCHES

ANGULAR
X.X =/- 0.5 DEG

THIRD ANGLE PROJECTION

HYD - MECH
The Rock Solid Solution

HYD - MECH GROUP LIMITED
WOODSTOCK, ONTARIO, CANADA N4S 8A4

TITLE
FRONT VISE ASSEMBLY

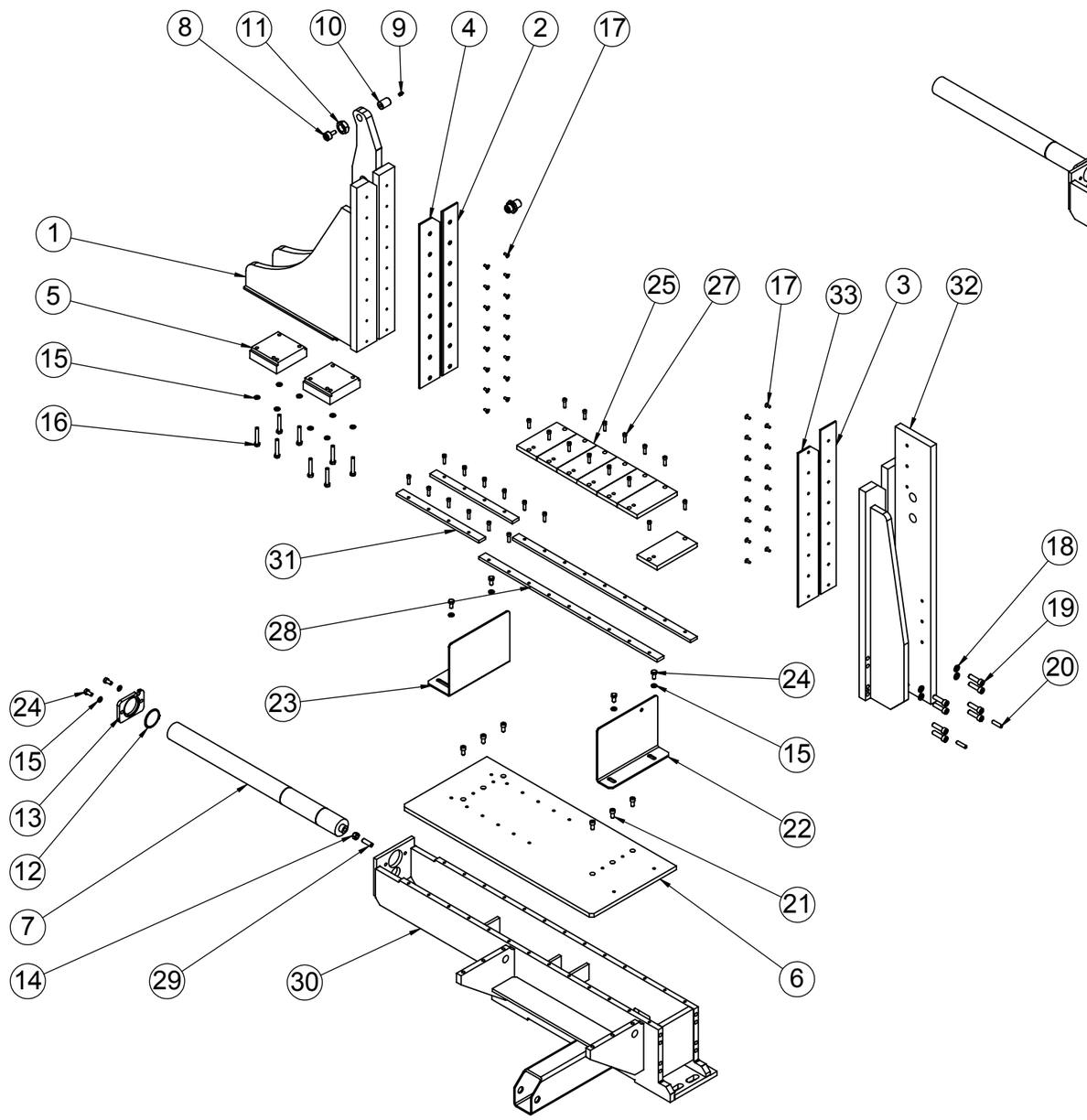
MATERIAL CODE:	MAT'L:	SAW CUT LENGTH	DRWN BY: MSILOS	CHKED BY:	SCALE	SHEET	REV
ASSEMBLY			DATE: SEPT 2012	DATE:	1:22	1 OF 1	-

OVERALL DIMENSIONS
THK/OD WDTH/ID WALL/WT LENGTH

PART WEIGHT
COATING

DRAWING NUMBER: **H28SV-51-00**

ITEM#	PART NUMBER	DESCRIPTION	QUANTITY
1	M-H32SV-513-00	FRONT VISE MOVEABLE JAW	1
2	H22SV-5-01	Wear Strip	1
3	H32SV-5-02	WEARSTRIP	1
4	H32SV-G5-06	WEARSTRIP	1
5	H32SV-5-04	VISE SLIDER	2
6	H32SV-2-07B	OUTFEED TABLE	1
7	H32SV-C31-00	Assembly, Cylinder, Front Vise	1
8	340739	Cam Follower, 1 1/4	1
9	391175	FITTING, GREASE STRAIGHT, 0.125 NPT	1
10	H32SV-514-01	ROLLER HOLDER	1
11	392950	Nut, Jam, 1.25-12	1
12	393575	Ring, Retaining, External 3.00	1
13	H22-5-05B	Plate, Cylinder Mounting	1
14	392875	Nut, Hex, 0.625-18	1
15	394775	Washer, Lock, 0.5	14
16	390475	Bolt, Hex Head, Cap, 0.50 - 13 x 3.00	8
17	390645	Bolt, Socket Head, Flat, 0.3125 - 18 x 0.75	32
18	394780	Washer, Lock, 0.625	4
19	390822	Bolt, Socket Head, Cap, 0.625 - 11 x 2.25	8
20	394069	Screw, Set, Cup, 0.50 - 13 x 2.0	2
21	390751	Bolt, Socket Head, Cap, 0.5 - 13 x 1.0	6
22	H18SV-2-08A	FIXED FENCE	1
23	H18SV-2-09	ADJUSTABLE FENCE	1
24	390165	Bolt, Hex Head Cap, 0.5-13 X 1	6
25	H32SV-2-06A	VISE INSERT	7
27	390720	Bolt, Socket Head, Cap, 0.375 - 16 x 1.25	26
28	H22SV-51-01	FRONT VISE WAY	2
29	394087	SCREW, SET, CUP POINT, 0.625-18 x 2.0	1
30	H32SV-511-00F	FRONT VISE FRAME	1
31	H32SV-51-01C	GUIDE RAIL	2
32	M-H32SV-G512-00A	FRONT VISE DATUM JAW	1
33	H32SV-G5-05	WEARSTRIP	1



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REVISIONS

REV	ECN NUMBER	DATE	BY
-	ECN00080	JAN 2014	MS
-	ECN00116	MARCH 2014	MS

STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED

DIMENSIONS ARE IN INCHES

LINEAR
.X +/- .015 IN
.XX +/- .010 IN
.XXX +/- .005 IN
= 125 MICROINCHES

ANGULAR
X.X =/- 0.5 DEG

THIRD ANGLE PROJECTION

HYD - MECH
The Rock Solid Solution

HYD - MECH GROUP LIMITED
WOODSTOCK, ONTARIO, CANADA N4S 8A4

TITLE
FRONT VISE ASSEMBLY

MATERIAL CODE:	MAT'L:	SAW CUT LENGTH	DRWN BY: MSILOS	CHKED BY:	SCALE	SHEET	REV
ASSEMBLY			DATE: SEPT 2012	DATE:	1:22	1 OF 1	-

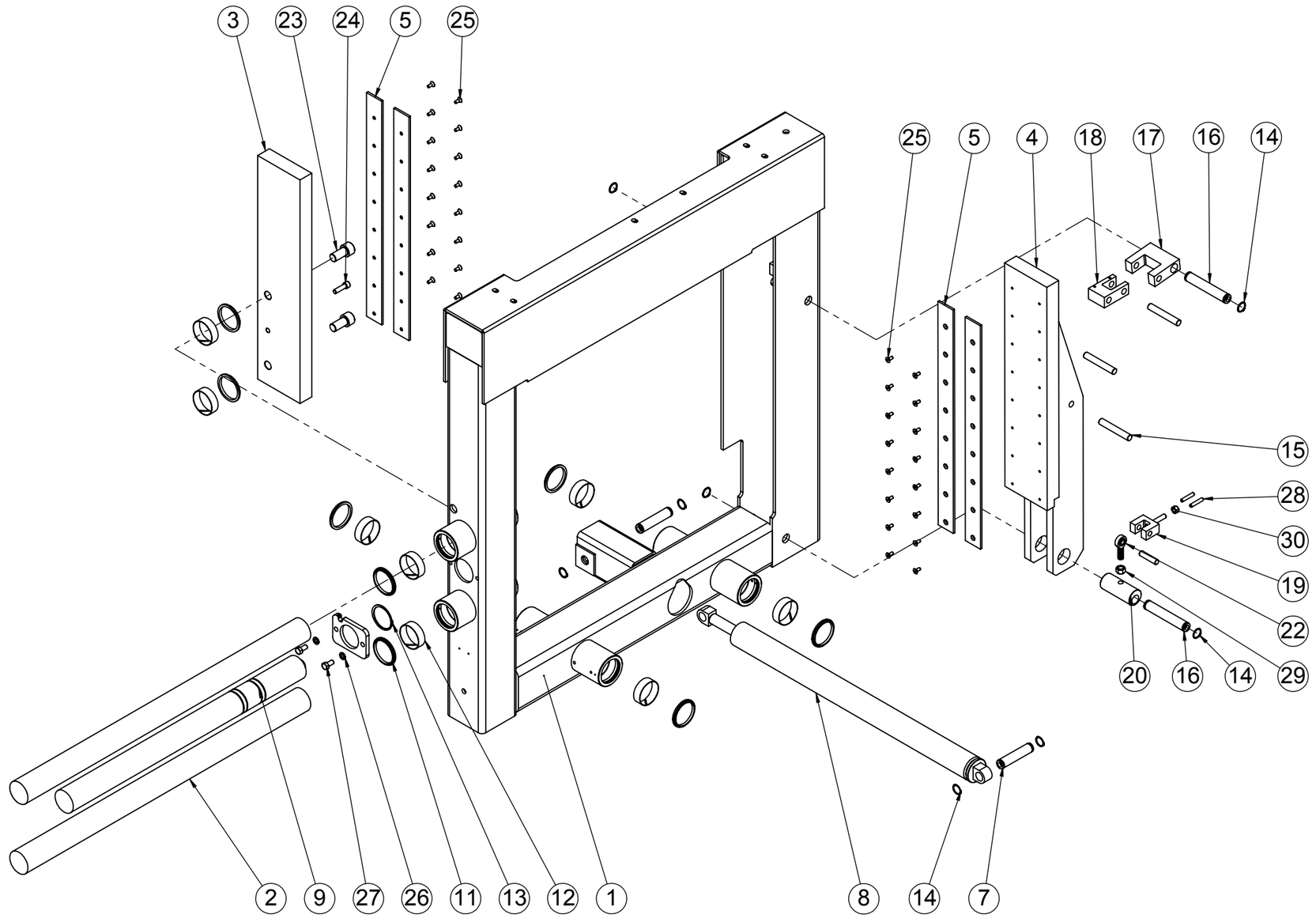
OVERALL DIMENSIONS
THK/OD WDTH/ID WALL/WT LENGTH

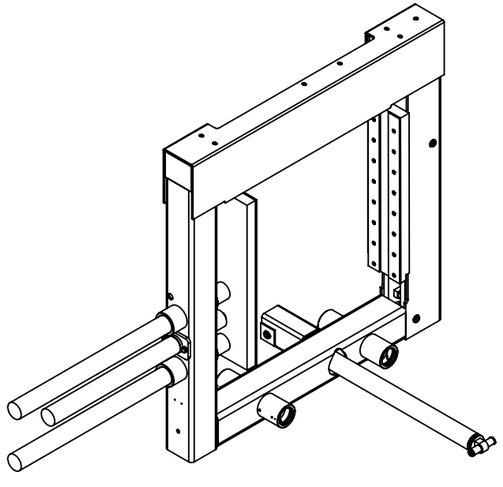
PART WEIGHT

COATING

DRAWING NUMBER: **H32SV-51-00**

ITEM#	PART NUMBER	DESCRIPTION	QUANTITY
1	H32-521A-00C	SHUTTLE VISE FRAME	1
2	H32-5A-01A	MOVABLE JAW SHAFT	2
3	H32-5A-02F	MOVABLE JAW PLATE	1
4	H32-522A-00A	SHUTTLE VISE - MOVABLE JAW	1
5	H32-5A-03	WEAR STRIP	4
7	H18-2-06	SHUTTLE PIN	2
8	H28SV-C1-00	SHUTTLE CYL	1
9	H32-C31-00B	VISE CYLINDER	1
10	H22-5-05B	Plate, Cylinder Mounting	1
11	363325	WIPER, SHAFT, 1.5 X 1.25 X 0.188, U-1125	8
12	342170	STRIP, WEAR RING, 3IN. SHAFT, 9.678 X 1	8
13	393575	Ring, Retaining, External 3.00	1
14	393540	RING, RETAINING, EXTERNAL 1 1/8	8
15	H14-5-10	Jaw Mounting Pin, Smaller	3
16	H14-5-15	Jaw Mounting Pin, Larger	2
17	M-H14-5-11	Link, Larger	1
18	M-H14-5-12	Datum Jaw Link, Smaller	1
19	H14-523-00	Weldment, Yoke	1
20	H14-5-13	Eccentric Shaft	1
21	H14-5-14	Pin, Yoke Assembly	1
22	341795	ROD END, 0.625-18, CM-10, RIGHT THREAD	1
23	390880	Bolt, Socket Head Cap, 1-14 x 2.00	2
24	390785	Bolt, Socket Head Cap, 0.50 - 13 x 1.75	1
25	390645	Bolt, Socket Head, Flat, 0.3125 - 18 x 0.75	32
26	394775	Washer, Lock, 0.5	2
27	390165	Bolt, Hex Head Cap, 0.5-13 X 1	2
28	394040	Screw, Set, Cup Point, 0.375-16 x 2.00	2
29	392875	Nut, Hex, 0.625-18	1
30	392860	Nut, Hex, 0.50-13	1





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REVISIONS

REV	ECN NUMBER	DATE	BY
-	-	-	-
-	-	-	-

STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED

DIMENSIONS ARE IN INCHES

LINEAR
.X +/- .015 IN
.XX +/- .010 IN
.XXX +/- .005 IN
= 125 MICROINCHES

ANGULAR
X.X =/- 0.5 DEG

THIRD ANGLE PROJECTION

HYD - MECH
The Rock Solid Solution

HYD - MECH GROUP LIMITED
WOODSTOCK, ONTARIO, CANADA N4S 8A4

TITLE
SHUTLE VISE ASSEMBLY

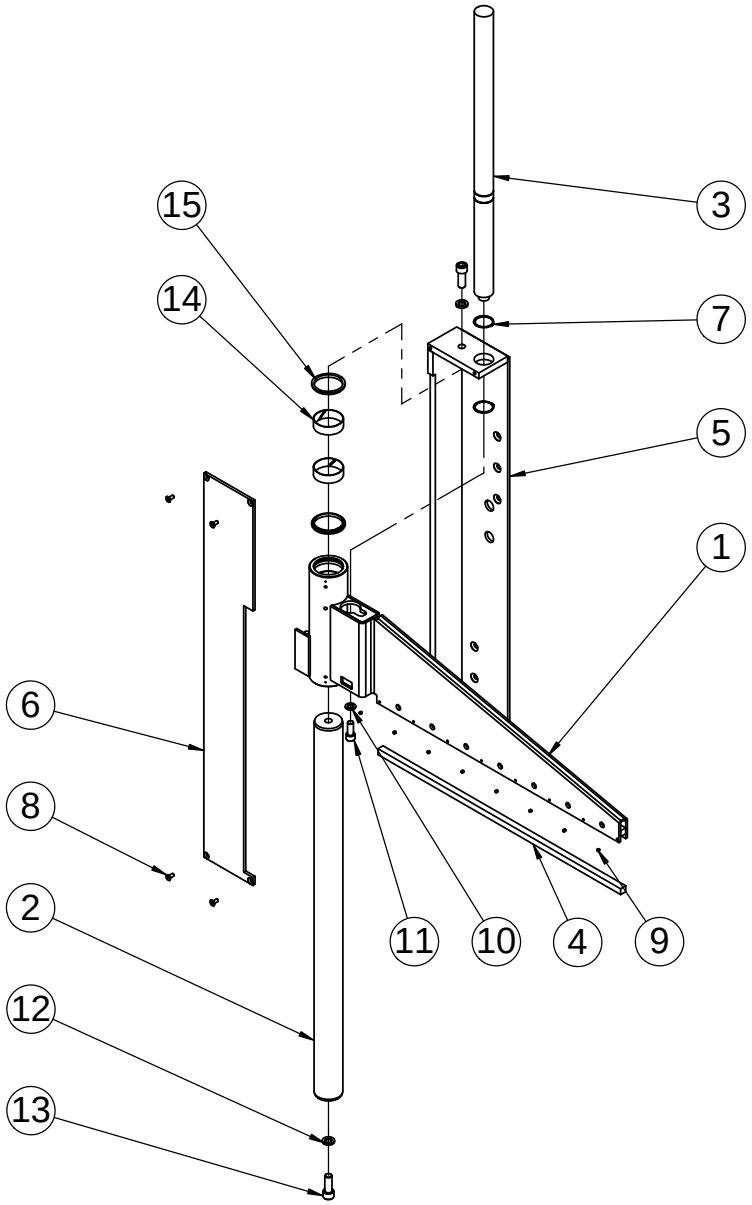
MATERIAL CODE:	MAT'L:	SAW CUT LENGTH	DRWN BY: MSILOS	CHKED BY:	SCALE	SHEET	REV
ASSEMBLY			DATE: SEPT 2012	DATE:	1:14	1 OF 1	-

OVERALL DIMENSIONS: THK/OD | WDTH/ID | WALL/WT | LENGTH

PART WEIGHT | COATING

DRAWING NUMBER: **H32-52-00**

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	H32SV-G542-00	BUNDLING ARM	1
2	H32SV-G54-01	BUNDLING SHAFT	1
3	H32SV-C23A-00	FRONT BUNDLING CYL	1
4	H32SV-G54-03	WEARSTRIP	1
5	H32SV-G543-00A	BUNDLING FRAME	1
6	H32SV-G54-02A	COVER	1
7	393553	RING, RETAINING, EXTERNAL 2	2
8	390645	Bolt, Socket Head, Flat, 0.3125 - 18 x 0.75	4
9	393950	Screw, Set, Cup, 0.25 - 20 x 0.25	8
10	394780	Washer, Lock, 0.625	1
11	395417	Bolt, Socket Head, Cap, 0.625 - 18 x 1.50	1
12	394785	Washer, Lock, 0.75	2
13	395083	Bolt, Socket Head, Cap, 0.75 - 10 x 2.0	2
14	342170	STRIP, WEAR RING, 3IN. SHAFT, 9.678 X 1	2
15	363325	WIPER, SHAFT, 1.5 X 1.25 X 0.188, U-1125	2



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REV	ECN NUMBER	DATE	BY
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-	-	-	-

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.XXX +/- .005 IN
= 125 MICROINCHES

ANGULAR
X.X =/- 0.5 DEG

THIRD ANGLE PROJECTION

HYD - MECH
The Rock Solid Solution

HYD - MECH GROUP LIMITED
WOODSTOCK. ONTARIO. CANADA N4S 8A4

TITLE
FRONT VISE BUNDLING ASSEMBLY, SPLIT VISE

MATERIAL CODE:	MAT'L:	SAW CUT LENGTH	DRWN BY: MSILOS	CHKED BY:	SCALE	SHEET	REV
			DATE: OCT 2012	DATE:	1:20	1 OF 1	-

OVERALL DIMENSIONS
THK/OD WDTH/ID WALL/WT LENGTH

PART WEIGHT

COATING

DRAWING NUMBER: **H32SV-G53-00**

ITEM#	PART NUMBER	DESCRIPTION	QUANTITY
1	H32-G531-00	BUNDLING BRACKET	1
2	H32-G53-01A	BUNDLING SHAFT	2
3	H32-G53-02A	BUNDLING CLAMP	1
4	H32-G53-03	WEAR STRIP, BUNDLING CLAMPS	1
6	393560	RING,RETAINING,EXTERNAL,2.375	1
7	363320	WIPER, 2.25	4
8	342165	STRIP, WEAR RING, 2.25IN SHAFT	4
9	390880	Bolt, Socket Head Cap, 1-14 x 2.00	2
10	390790	Bolt, Socket Head, Cap, 0.50-13x2.0	1
11	390695	Bolt, Socket Head, Cap, 0.312 - 18 x 0.75	9

SHUTTLE BUNDLING "STRAIGHT HEAD"

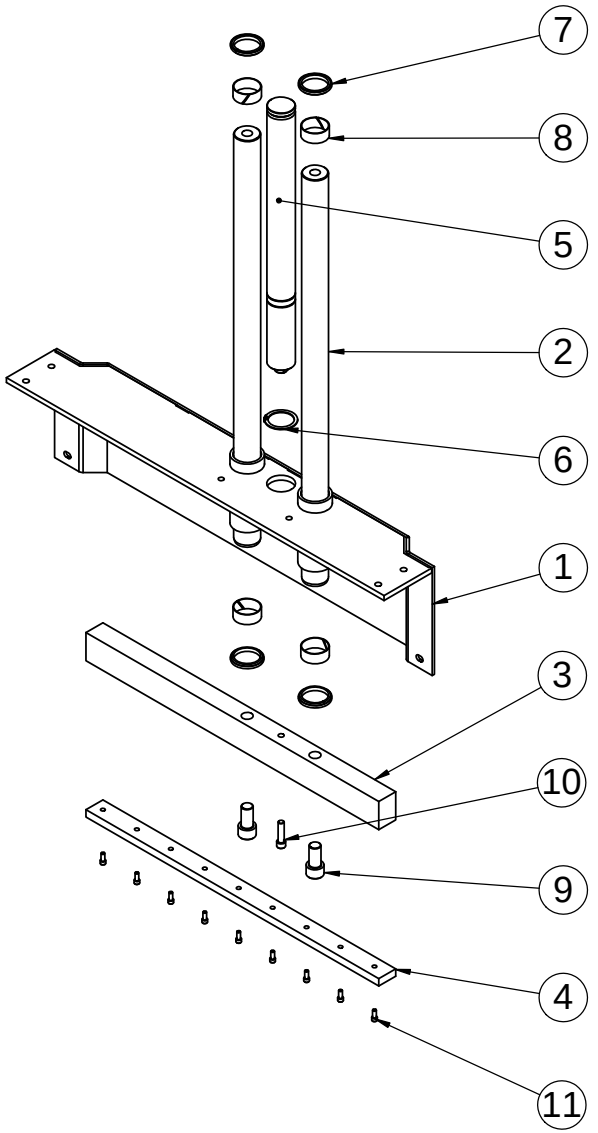
5	H32-C23-00	BUNDLING CYLINDER	1

SHUTTLE BUNDLING "CANTED HEAD" & FRONT BUNDLING "RV MACHINE"

5	H28-C23-00	BUNDLING CYLINDER	1

OUTBOARD VISE BUNDLING

3	H28OV-G53-02	BUNDLING CLAMP	1
4	H28OV-G53-03	WEAR STRIP	1
5	H28-C23-00	BUNDLING CYLINDER	1



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REVISIONS

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-	-	-	-

STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED

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ANGULAR
X.X =/- 0.5 DEG

THIRD ANGLE PROJECTION

HYD - MECH
The Rock Solid Solution

HYD - MECH GROUP LIMITED
WOODSTOCK. ONTARIO. CANADA N4S 8A4

TITLE
BUNDLING ASSEMBLY, SHUTTLE VISE AND FRONT VISE "RV MACHINES"

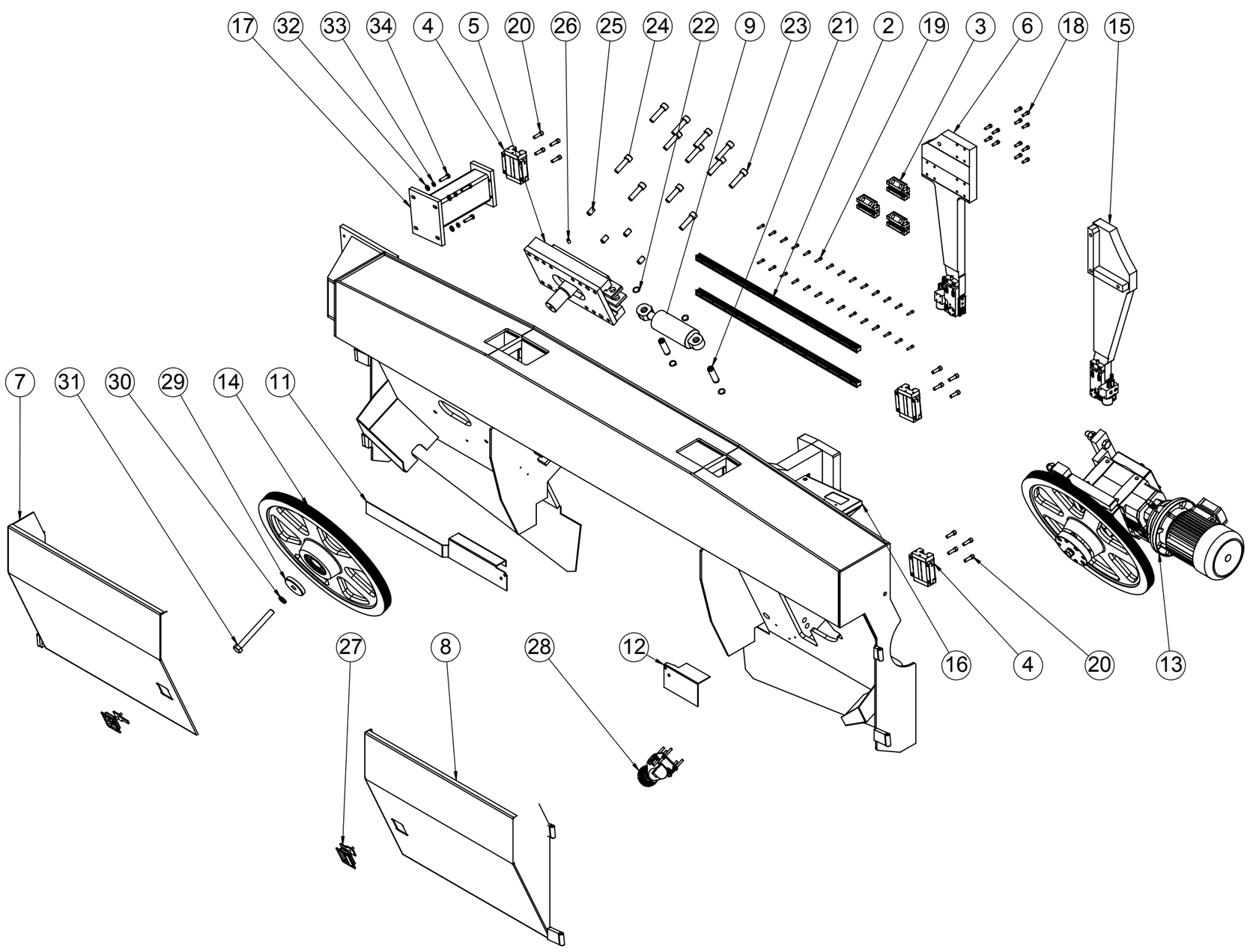
MATERIAL CODE:	MAT'L:	SAW CUT LENGTH	DRWN BY: MSILOS	CHKED BY:	SCALE	SHEET	REV
			DATE: OCT 2012	DATE:	1:16	1 OF 1	-

OVERALL DIMENSIONS
THK/OD WDTH/ID WALL/WT LENGTH

PART WEIGHT | COATING

DRAWING NUMBER: **H32-G53-00**

ITEM#	PART NUMBER	DESCRIPTION	QTY
1		HEAD WELDMENT	1
2	341723	Rail, Guide, Linear, 1120mm Size 30	2
3	341715	Block, Runner, Linear, Size 30, BRH30A	3
4	340523	BLOCK, RUNNER, LINEAR, SIZE 55, 1651-514	3
5	H28SV-43-00	IDLER WHEEL SLIDER ASSEMBLY	1
6	H28SV_6-47-00A	ASSEMBLY, GUIDE ARM, IDLER SIDE, 6 DEG.	1
7	H28SV_6-32-00	DOOR WELDMENT - IDLER SIDE	1
8	H28SV_6-33-00	DRIVE DOOR WLDT	1
9	H22-C5-00A	ASSEMBLY, CYLINDER, BLADE TENSION	1
10	H28-36-01	COVER	1
11	H28SV-93-01	LOWER BLADE COVER	1
12	H28SV-94-02	DRIVE SIDE LOWER BLADE COVER	1
13	H28-49-00	KIT, BLADE DRIVE, A603 GEARBOX	1
14	W32-45-00	IDLER WHEEL ASSY	1
15	H28SV-46-00	ASSEMBLY, GUIDE ARM, DRIVE SIDE	1
16	H286D-361-00	CABLE TRACK MTG BOX	1
17	H32SV-35-00A	AUX BEARING MTG BKT	1
18	390885	Bolt, Socket Head, Cap, M10x1.50x30mm	12
19	390703	Bolt, Socket Head, Cap, 0.312 - 18 x 1.25	28
20	390785	Bolt, Socket Head Cap, 0.50 - 13 x 1.75	12
21	H22-6-01	PIN, MOUNTING, TENSION CYLINDER	2
22	393540	RING, RETAINING, EXTERNAL 1 1/8	4
23	390840	Bolt, Socket Head, Cap, 0.875 - 9 x 3.25	8
24	395298	Bolt, Socket Head, Cap, 0.875 - 9 x 3.25	4
25	394205	Screw, Set, Flat, 0.875 - 9 x 1.5	4
26	395299	Screw, Set, Cup Point, 0.50 - 13 x 1.0	1
27	341251	HANDLE, DOOR LATCH, T HANDLE, 698-6950	2
28	H22-48-00	ASSEMBLY, BLADE BRUSH	1
29	H40-3-05	IDLER WHEEL - HOLDER	1
30	394795	Washer, Lock, 1.0	1
31	390390	Bolt, Hex Head Cap, 1.0-8 x 2.50	1
32	FW 0.5	0.5 Flat Washer	4
33	394775	Washer, Lock, 0.5	4
34	390190	Bolt, Hex Head Cap, 0.50 - 13 x 2.00	4



REVISIONS			
REV	ECN NUMBER	DATE	BY
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STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED

DIMENSIONS ARE IN INCHES

LINEAR
.X +/- .015 IN
.XX +/- .010 IN
.XXX +/- .005 IN

ANGULAR
X.X =/- 0.5 DEG

= 125 MICROINCHES

THIRD ANGLE PROJECTION

HYD - MECH
The Rock Solid Solution

HYD - MECH GROUP LIMITED
WOODSTOCK, ONTARIO, CANADA N4S 8A4

TITLE
H28SV_6 DEG HEAD ASSEMBLY

MATERIAL CODE:	MAT'L:	SAW CUT LENGTH	DRWN BY: MSILOS	CHKED BY:	SCALE	SHEET	REV
			DATE: FEB 2013	DATE:	1:22	1 OF 1	-

OVERALL DIMENSIONS
THK/OD WDTH/ID WALL/WT LENGTH

PART WEIGHT

COATING

DRAWING NUMBER: **H28SV_6-3-00**

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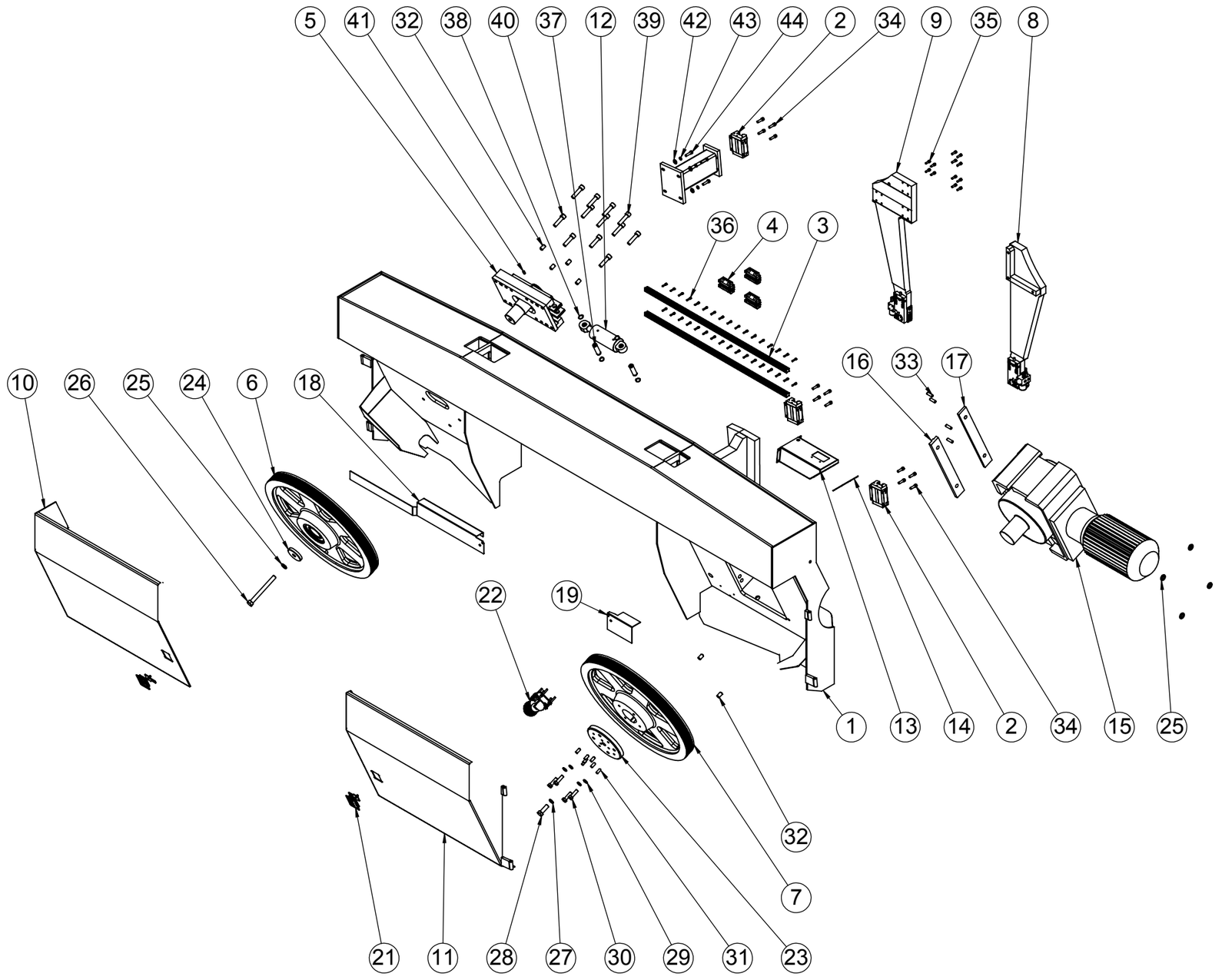
ALL RIGHTS RESERVED.

ITEM#	PART NUMBER	DESCRIPTION	QTY
1		HEAD WELDMENT	1
2	340523	BLOCK, RUNNER, LINEAR, SIZE 55, 1651-514	3
3	341721	Rail, Guide Linear, 1400mm size 30, AGR30R-1400	2
4	341715	Block, Runner, Linear, Size 30, BRH30A	3
5	H32-43A-00	IDLER WHEEL SLIDER ASSEMBLY	1
6	W38-45-00	38" IDLER WHEEL ASSEMBLY	1
7	W38-44-01	Wheel, Drive, 38 In, Machined	1
8	H32SV-46-00	ASSEMBLY, GUIDE ARM, DRIVE SIDE	1
9	H32SV-G47-00	ASSEMBLY, GUIDE ARM, IDLER SIDE, 6 DEG.	1
10	H32SV-G32-00	DOOR WELDMENT - IDLER SIDE	1
11	H32SV-G33-00	DRIVE DOOR WLDT	1
12	H22-C5-00A	ASSEMBLY, CYLINDER, BLADE TENSION	1
13	H286D-361-00A	CABLE TRACK MTG BOX	1
14	H28-36-01	COVER	1
15	EPM80	GEARBOX	1
16	H40-3-06	GEARBOX PIVOT PLATE	1
17	H26-4A-05	GEARBOX TIPPING PLATE	1
18	H32SV-93-01B	LOWER BLADE COVER	1
19	H32SV-94-02A	DRIVE SIDE LOWER BLADE COVER	1
20	H32SV-35-00A	AUX BEARING MTG BKT	1
21	341251	HANDLE, DOOR LATCH, T HANDLE, 698-6950	2
22	H22-48-00	ASSEMBLY, BLADE BRUSH	1
23	M-H40-3-02A	Retainer, Drive Wheel, Machined	1
24	H40-3-05	IDLER WHEEL - HOLDER	1
25	394795	Washer, Lock, 1.0	5
26	390390	Bolt, Hex Head Cap, 1.0-8 x 2.50	1
27	342535	Washer, Lock, M24	1
28	390439	Bolt, Hex Head Cap, M24 - 3.0 x 70	1
29	394785	Washer, Lock, 0.75	4
30	390335	Bolt, Hex Head Cap, 0.75-10 x 2.50	4
31	394185	Screw, Set, Flat Point, 0.625 - 11 x 1.5	7
32	394205	Screw, Set, Flat, 0.875 - 9 x 1.5	6
33	394081	Screw, Set, Cup Point, 0.625 - 11 x 2.0	4
34	390785	Bolt, Socket Head Cap, 0.50 - 13 x 1.75	12
35	390885	Bolt, Socket Head, Cap, M10x1.50x30mm	12
36	390703	Bolt, Socket Head, Cap, 0.312 - 18 x 1.25	34
37	H22-6-01	PIN, MOUNTING, TENSION CYLINDER	2
38	393540	RING, RETAINING, EXTERNAL 1 1/8	4
39	390840	Bolt, Socket Head, Cap, 0.875 - 9 x 3.25	8
40	395298	Bolt, Socket Head, Cap, 0.875 - 9 x 3.25	4
41	395299	Screw, Set, Cup Point, 0.50 - 13 x 1.0	1
42	394670	Washer,Flat, 0.50	4
43	394775	Washer, Lock, 0.5	4
44	390190	Bolt, Hex Head Cap, 0.50 - 13 x 2.00	4



REVISIONS			
REV	ECN NUMBER	DATE	BY
-	ECN00117	MAY 2014	WR
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STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED

DIMENSIONS ARE IN INCHES

LINEAR
.X +/- .015 IN
.XX +/- .010 IN
.XXX +/- .005 IN
= 125 MICROINCHES

ANGULAR
X.X =/- 0.5 DEG

THIRD ANGLE PROJECTION

HYD - MECH
The Rock Solid Solution

HYD - MECH GROUP LIMITED
WOODSTOCK, ONTARIO, CANADA N4S 8A4

TITLE
HEAD ASSEMBLY, H32SV 6 DEG.

MATERIAL CODE:	MAT'L:	SAW CUT LENGTH	DRWN BY: MSILOS DATE: FEB 2013	CHKED BY: DATE:	SCALE 1:32	SHEET 1 OF 1	REV -

OVERALL DIMENSIONS
THK/OD WDTH/ID WALL/WT LENGTH

PART WEIGHT

COATING

DRAWING NUMBER: **H32SV_6D-3-00**

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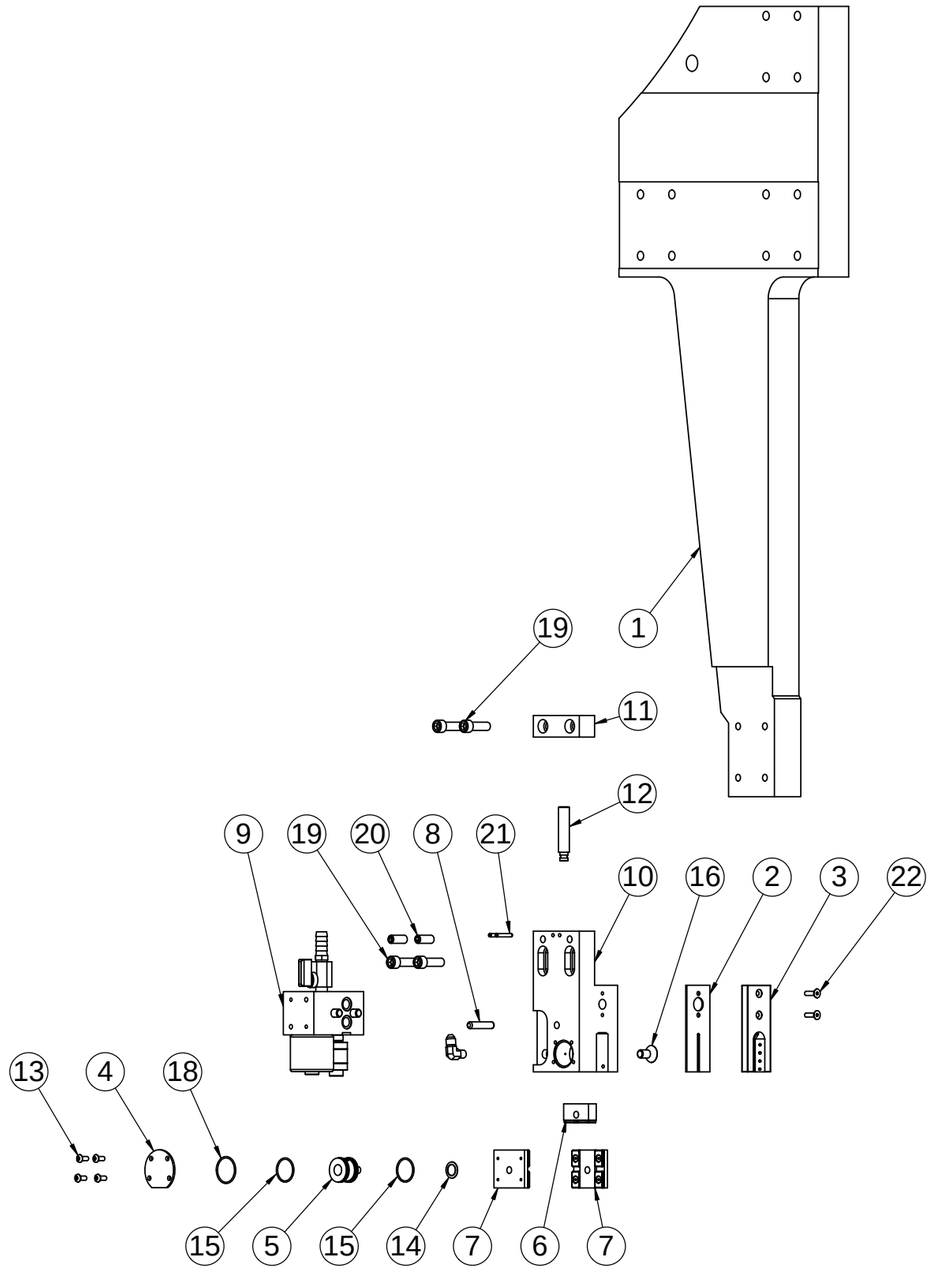
ALL RIGHTS RESERVED.

ITEM#	PART NUMBER	DESCRIPTION	QUANTITY
1	H28SV_6-471-01A	GUIDE ARM - IDLER SIDE	1
2	COOL202	BACK PLATE	1
3	COOL201A	COOLANT NOZZLE	1
4	H22SV-46-05	COVER	1
5	H22SV-46-04	PISTON	1
6	CRBTOP-00	ASSEMBLY, TOP CARBIDE	1
7	CRB200-22-00	ASSEMBLY, PAD, CARBIDE	2
8	395254	PIN, DOWEL, 0.312 X 1.50	1
9	AVR-474-00	ASSEMBLY, ANTI VIBRATION ROLLER, IDLER	1
10	H22SV-472-01A	CARBIDE BLOCK - IDLER SIDE	1
11	H22SV-462-02	MTG BLOCK	1
12	H22SV-461-04	ADJUSTING SCREW, GUIDE ARM BLOCK	1
13	390025	Bolt, Button Head Cap Screw, 10-24 x 0.50	4
14	394880	Washer, Spring Tension, Belleville, 0.505 x 0.75 x 015, W-270	1
15	362932	Seal, Oring, 1.125 x .1.00 x .0625	2
16	390625	Bolt, Socket Head, Flat, 0.375 - 16 x 0.75	1
17	360530	Fitting, Hydraulic, Steel, Elbow Adapter 90 MNPT-MJIC, 2103-2-4	1
18	362933	Seal, Oring, 1.25 x 1.125 x .0625	1
19	390720	Bolt, Socket Head, Cap, 0.375 - 16 x 1.25	4
20	394005	Screw, Set, Cup Point, 0.375-16 x 1.00	2
21	393690	Roll pin, 0.156 X 1.00	2
22	390600	Bolt, Socket Head, Flat, 10-24 x 0.75	2



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REVISIONS

REV	ECN NUMBER	DATE	BY
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STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED

DIMENSIONS ARE IN INCHES

LINEAR
.X +/- .015 IN
.XX +/- .010 IN
.XXX +/- .005 IN
= 125 MICROINCHES

ANGULAR
X.X =/- 0.5 DEG

THIRD ANGLE PROJECTION

HYD - MECH
The Rock Solid Solution

HYD - MECH GROUP LIMITED
WOODSTOCK. ONTARIO. CANADA N4S 8A4

TITLE
ASSEMBLY, GUIDE ARM, IDLER SIDE, 6 DEG.

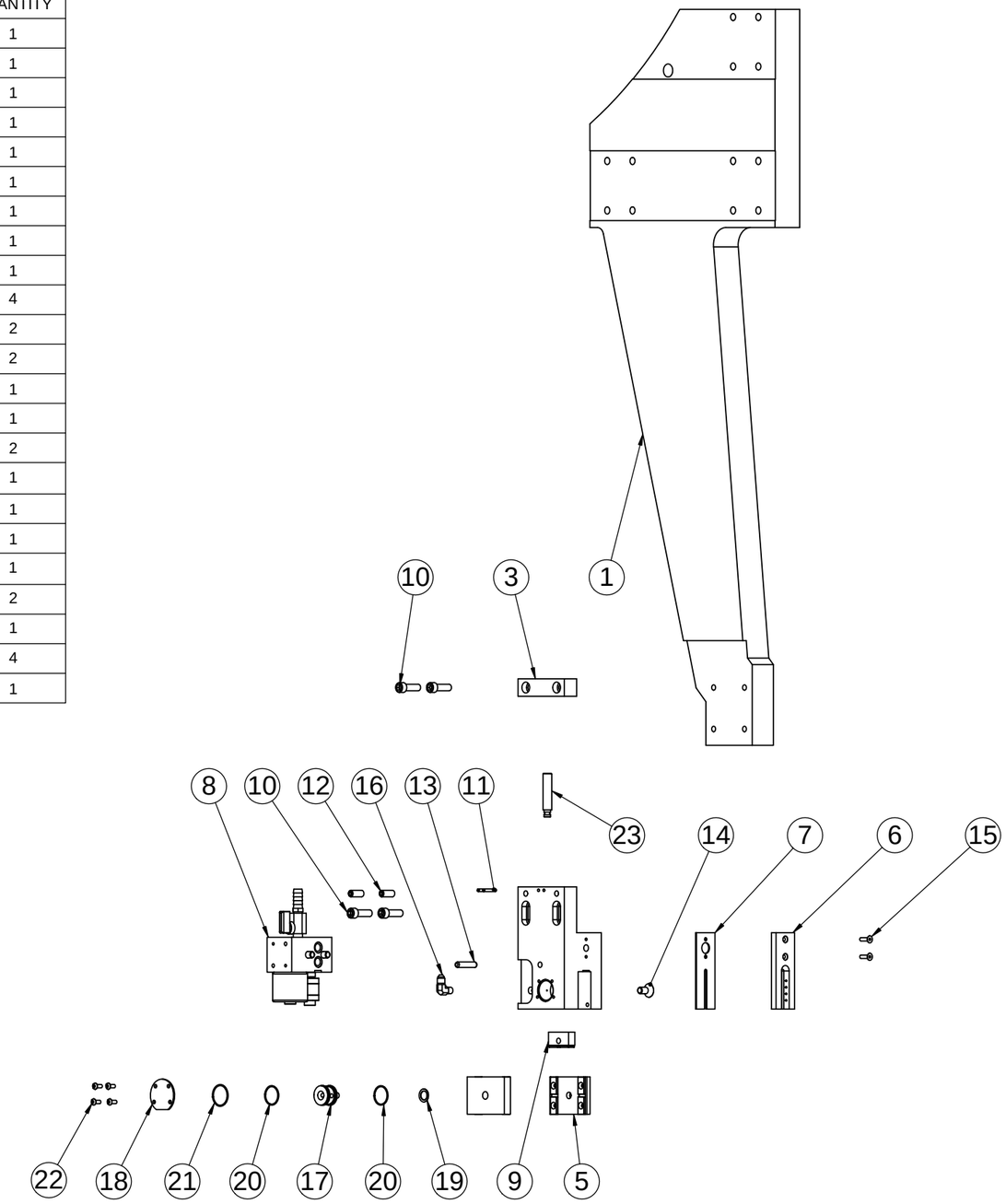
MATERIAL CODE:	MAT'L:	SAW CUT LENGTH	DRWN BY: MSILOS	CHKED BY:	SCALE	SHEET	REV
			DATE: FEB 2013	DATE:	1:7	1 OF 1	-

OVERALL DIMENSIONS
THK/OD WDTH/ID WALL/WT LENGTH

PART WEIGHT
COATING

DRAWING NUMBER: **H28SV_6-47-00A**

ITEM#	PART NUMBER	DESCRIPTION	QUANTITY
1	H32SV-G471-01	GUIDE ARM - IDLER SIDE	1
2	H32SV-472-01A	CARBIDE BLOCK - IDLER SIDE	1
3	H32SV-462-02	MTG BLOCK	1
4	CRB262-31A-00	CARBIDE PLATE - REAR	1
5	CRB262-32A-00	CARBIDE PAD - FRONT	1
6	COOL321	Coolant Nozzle	1
7	COOL322B	NOOZLE, COOLANT, BACK PLATE	1
8	AVR-474-00	ASSEMBLY, ANTI VIBRATION ROLLER, IDLER	1
9	CRBTOP-00	ASSEMBLY, TOP CARBIDE	1
10	390720	Bolt, Socket Head, Cap, 0.375 - 16 x 1.25	4
11	393690	Roll pin, 0.156 X 1.00	2
12	394005	Screw, Set, Cup Point, 0.375-16 x 1.00	2
13	395254	PIN, DOWEL, 0.312 X 1.50	1
14	390625	Bolt, Socket Head, Flat, 0.375 - 16 x 0.75	1
15	390600	Bolt, Socket Head, Flat, 10-24 x 0.75	2
16	360530	Fitting, Hydraulic, Steel, Elbow Adapter 90 MNPT-MJIC, 2103-2-4	1
17	H22SV-46-04	PISTON	1
18	H22SV-46-05	COVER	1
19	394880	Washer, Spring Tension, Belleville, 0.505 x 0.75 x 015, W-270	1
20	362932	Seal, Oring, 1.125 x .1.00 x .0625	2
21	362933	Seal, Oring, 1.25 x 1.125 x .0625	1
22	390025	Bolt, Button Head Cap Screw, 10-24 x 0.50	4
23	H22SV-461A-04	ADJUSTING SCREW, GUIDE ARM BLOCK	1



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REVISIONS

REV	ECN NUMBER	DATE	BY
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STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED

DIMENSIONS ARE IN INCHES

LINEAR
.X +/- .015 IN
.XX +/- .010 IN
.XXX +/- .005 IN
= 125 MICROINCHES

ANGULAR
X.X =/- 0.5 DEG

THIRD ANGLE PROJECTION

HYD - MECH
The Rock Solid Solution

HYD - MECH GROUP LIMITED
WOODSTOCK, ONTARIO, CANADA N4S 8A4

TITLE
ASSEMBLY, GUIDE ARM, IDLER SIDE, 6 DEG.

MATERIAL CODE:	MAT'L:	SAW CUT LENGTH	DRWN BY: MSILOS	CHKED BY:	SCALE	SHEET	REV
			DATE: FEB 2013	DATE:	1:8	1 OF 1	-

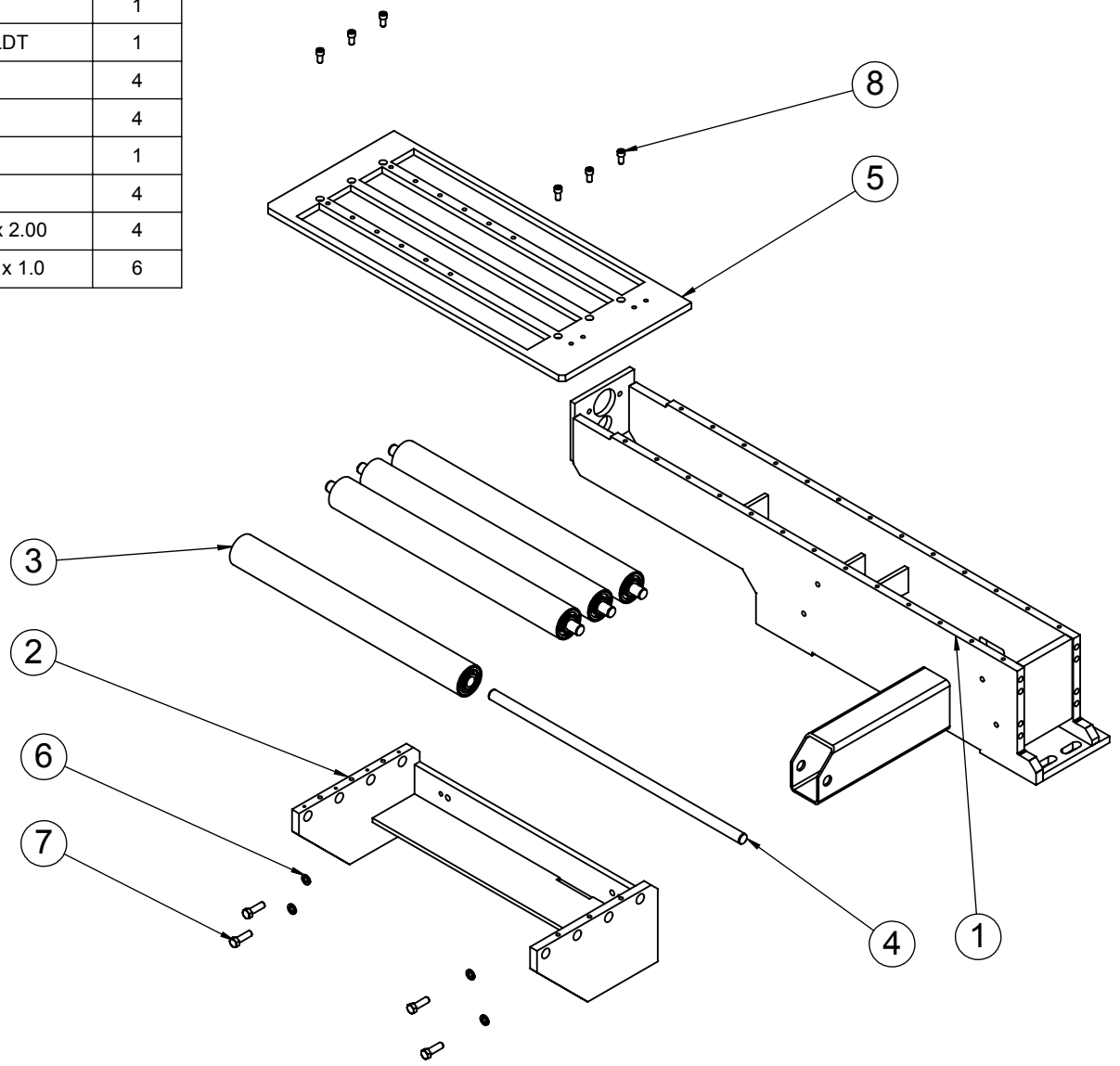
OVERALL DIMENSIONS
THK/OD WDTH/ID WALL/WT LENGTH

PART WEIGHT

COATING

DRAWING NUMBER: **H32SV-G47-00**

ITEM#	PART NUMBER	DESCRIPTION	QTY
1	H28SV-G511-00C	FRONT VISE FRAME	1
2	H28SV-G271-00	OUTFEED ROLLER FRAME WLDT	1
3	M20-24-00	ASSEMBLY, ROLLER	4
4	H28-2-03A	PIN	4
5	H28SV-G2-07	OUTFEED TABLE	1
6	394780	Washer, Lock, 0.625	4
7	390260	Bolt, Hex Head Cap, 0.625 - 11 x 2.00	4
8	390751	Bolt, Socket Head, Cap, 0.5 - 13 x 1.0	6



REVISIONS

REV	ECN NUMBER	DATE	BY
-	ECN00080	JAN 2014	MS
-	-	-	-

STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED

DIMENSIONS ARE IN INCHES

LINEAR: .X +/- .015 IN; .XX +/- .010 IN; .XXX +/- .005 IN

ANGULAR: X.X =/- 0.5 DEG

= 125 MICROINCHES

THIRD ANGLE PROJECTION

HYD - MECH
The Rock Solid Solution

HYD - MECH GROUP LIMITED
WOODSTOCK, ONTARIO, CANADA N4S 8A4

TITLE: OUTFEED ROLLER TABLE - SV

MATERIAL CODE:	MAT'L:	SAW CUT LENGTH	DRWN BY: MSILOS	CHKED BY:	SCALE	SHEET	REV
ASSEMBLY			DATE: FEB 2013	DATE:	1:18	1 OF 1	-

OVERALL DIMENSIONS: THK/OD | WDTH/ID | WALL/WT | LENGTH

PART WEIGHT | COATING

DRAWING NUMBER: **H28SV-G27-00**

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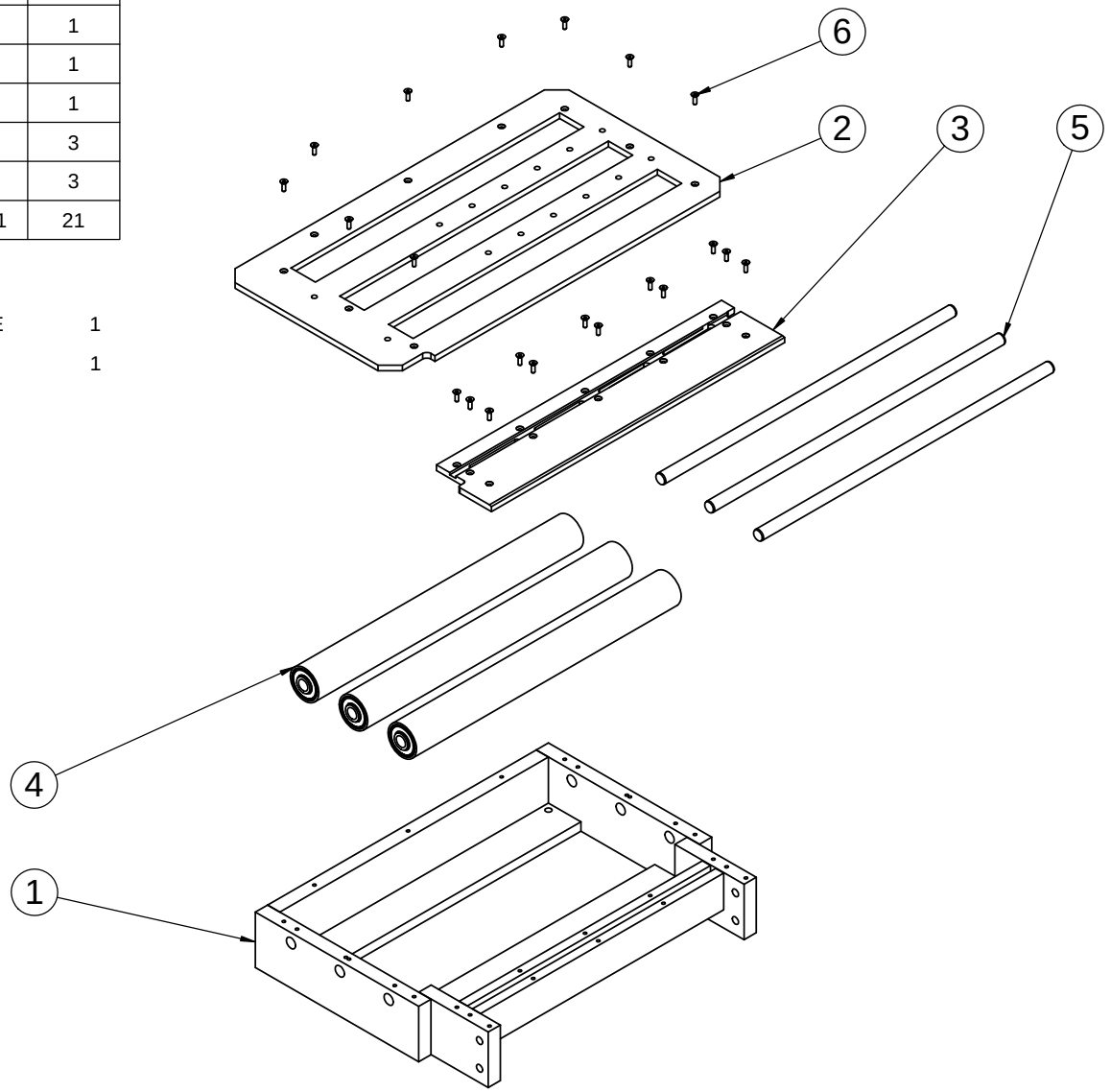
ITEM#	PART NUMBER	DESCRIPTION	QTY
1	M-H28SV_6-22-00	OUTFEED CONVEYOR FRAME	1
2	H28SV_6-2-04	OUTFEED TABLE PLATE	1
3	H28-2-01	INFEED PLATE	1
4	M20-24-00	ASSEMBLY, ROLLER	3
5	H28-2-03A	PIN	3
6	390635	Bolt, Socket Head, Flat, .313-18 x 1	21

WITH OUTBOARD VISE ASSEMBLY

1	H28_F-22-00A	OUTFEED CONVEYOR FRAME	1
2	H28OV-2-03A	OUTFEED TABLE PLATE	1



REVISIONS			
REV	ECN NUMBER	DATE	BY
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STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED

DIMENSIONS ARE IN INCHES

LINEAR: .X +/- .015 IN; .XX +/- .010 IN; .XXX +/- .005 IN

ANGULAR: X.X =/- 0.5 DEG

= 125 MICROINCHES

THIRD ANGLE PROJECTION

HYD - MECH
The Rock Solid Solution

HYD - MECH GROUP LIMITED
WOODSTOCK. ONTARIO. CANADA N4S 8A4

TITLE: OUTFEED ROLLER TABLE ASSEMBLY, RETRACTABLE VISE

MATERIAL CODE:	MAT'L:	SAW CUT LENGTH	DRWN BY: MSILOS DATE: FEB 2013	CHKED BY: DATE:	SCALE	SHEET	REV
					1:16	1 OF 1	-

OVERALL DIMENSIONS: THK/OD | WDTH/ID | WALL/WT | LENGTH

PART WEIGHT | COATING

DRAWING NUMBER: **H28-G27-00**

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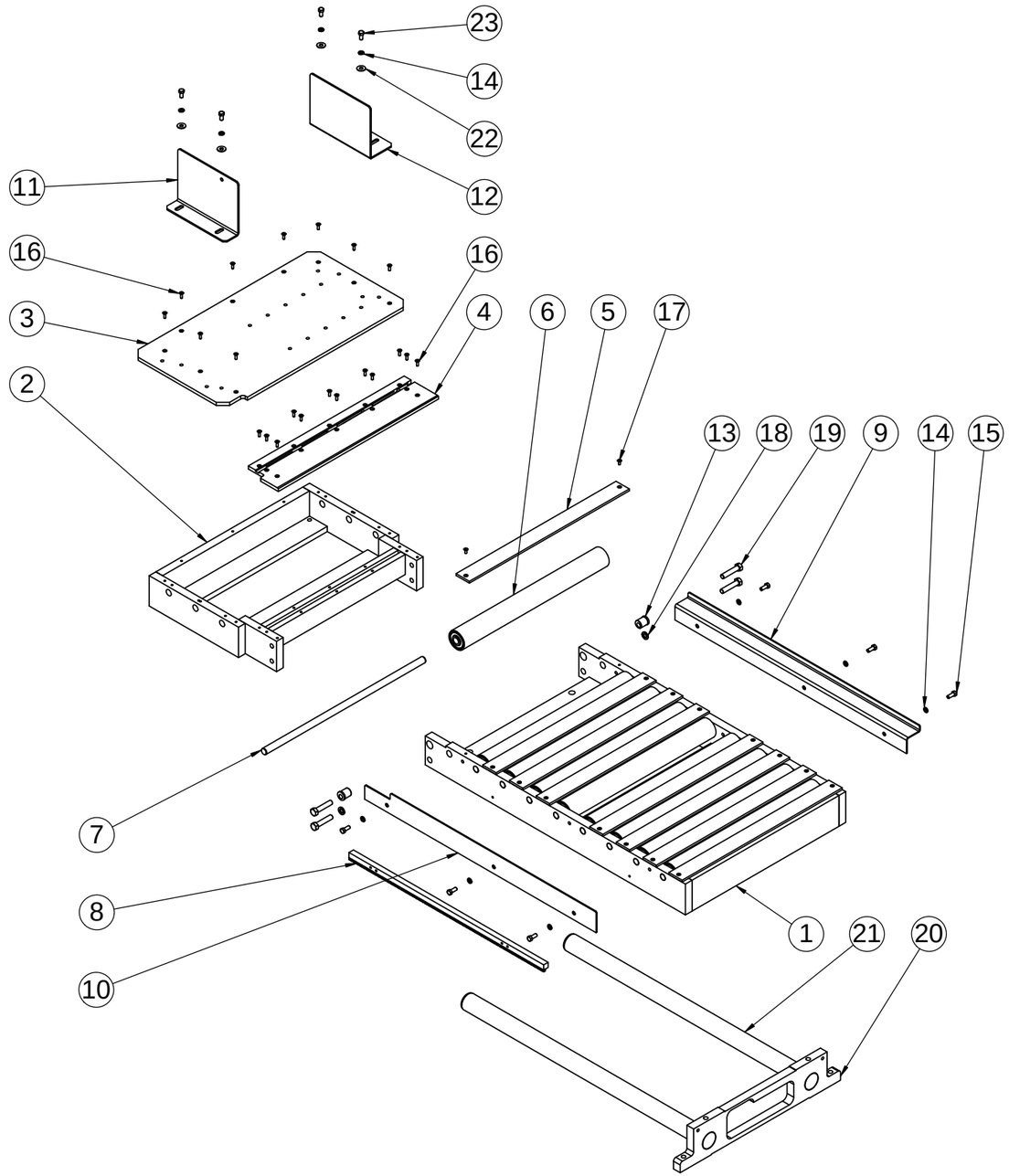
ITEM#	PART NUMBER	DESCRIPTION	QUANTITY
1	H28-21-00B	INFEED CONVEYOR	1
2	M-H28SV_6-22-00	OUTFEED CONVEYOR FRAME	1
3	H28SV_6-2-02A	OUTFEED TABLE PLATE	1
4	H28-2-01	INFEED PLATE	1
5	H28-2-08	REMOVABLE COVER	8
6	M20-24-00	ASSEMBLY, ROLLER	9
7	H28-2-03A	PIN	9
8	H18-724-00	WELDMENT, BAR RACK	1
9	H28-2-05	PIN HOLDER, IDLER SIDE	1
10	H28-2-04	PIN HOLDER, DRIVE SIDE	1
11	H18SV-G2A-08	FIXED FENCE	1
12	H18SV-2-09	MOVABLE FENCE	1
13	H28-25-01	CONVEYOR ECCENTRIC BUSHING	2
14	394775	Washer, Lock, 0.5	10
15	390170	Bolt,Hex Head Cap, 0.50-13x1.25	6
16	390635	Bolt, Socket Head, Flat, .313-18 x 1	21
17	390645	Bolt, Socket Head, Flat, 0.3125 - 18 x 0.75	16
18	394785	Washer, Lock, 0.75	2
19	390345	Bolt, Hex Head Cap, 0.75 - 10 x 3.50	4
20	H28SV-2-06B	REAR INFEED MTG BKT	1
21	H28SV-2-09	SHUTTLE SHAFT	2
22	394743	Washer, Flat, USS, 0.5	4
23	390165	Bolt, Hex Head Cap, 0.5-13 X 1	4



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REVISIONS

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-	-	-	-

STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED

DIMENSIONS ARE IN INCHES

LINEAR
.X +/- .015 IN
.XX +/- .010 IN
.XXX +/- .005 IN
= 125 MICROINCHES

ANGULAR
X.X =/- 0.5 DEG

THIRD ANGLE PROJECTION

HYD - MECH
The Rock Solid Solution

HYD - MECH GROUP LIMITED
WOODSTOCK, ONTARIO, CANADA N4S 8A4

TITLE
CONVEYOR ASSEMBLY, RETRACTABLE VISE

MATERIAL CODE:	MAT'L:	SAW CUT LENGTH	DRWN BY: MSILOS DATE: FEB 2013	CHKED BY: DATE:	SCALE 1:22	SHEET 1 OF 1	REV -

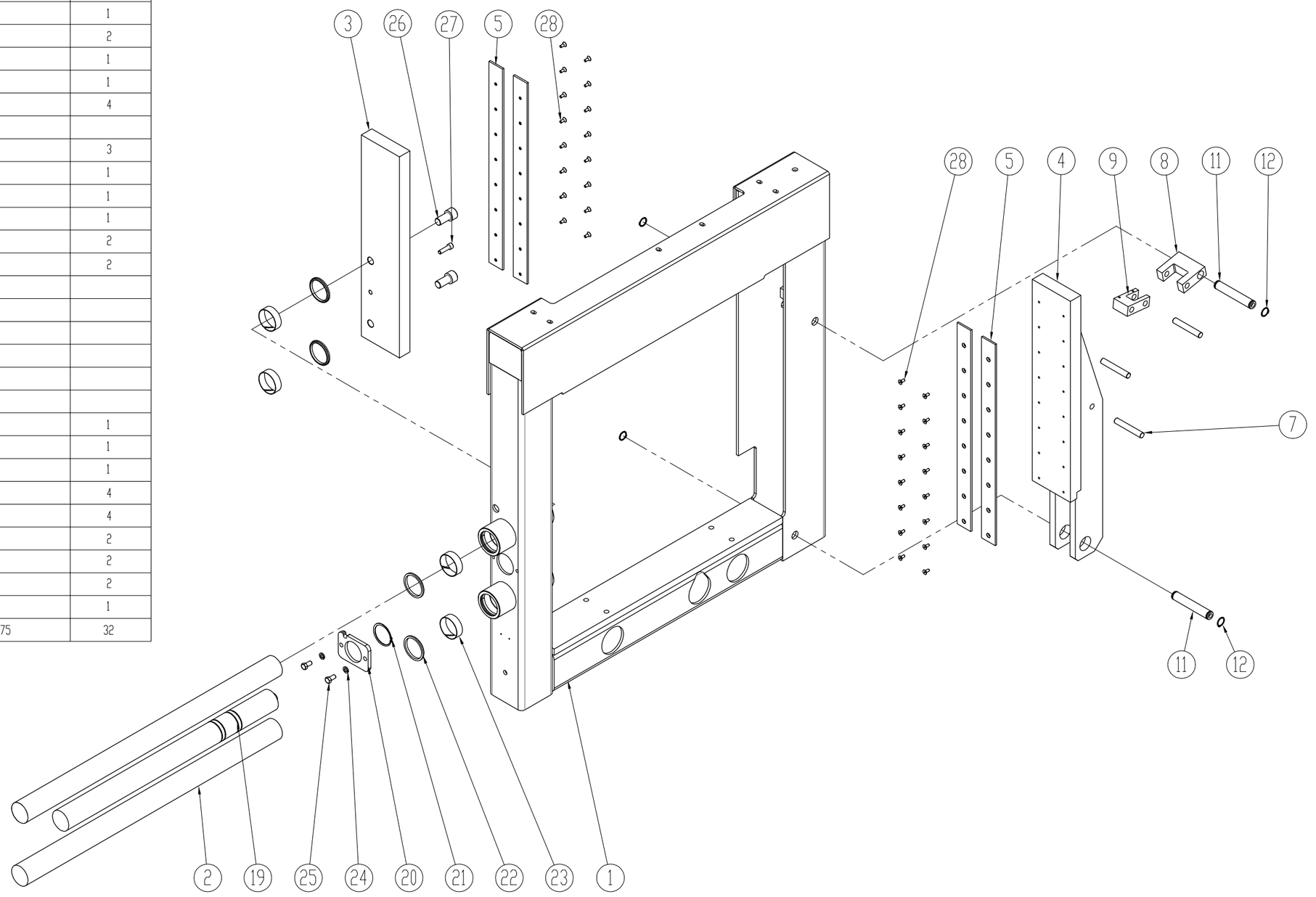
OVERALL DIMENSIONS
THK/OD WDTH/ID WALL/WT LENGTH

PART WEIGHT

COATING

DRAWING NUMBER: **H28SV_6-2-00**

ITEM#	PART NUMBER	DESCRIPTION	QUANTITY
1	H32-511A-00E	SHUTTLE VISE FRAME	1
2	H32-5A-01A	MOVABLE JAW SHAFT	2
3	H32-5A-02F	MOVABLE JAW PLATE	1
4	H32-512A-00A	FRONT DATUM JAW WELDMENT	1
5	H32-5A-03	WEAR STRIP	4
7	H14-5-10	Jaw Mounting Pin, Smaller	3
8	M-H14-5-11	Link, Larger	1
9	M-H14-5-12	Datum Jaw Link, Smaller	1
10	H14-5-14	Pin, Yoke Assembly	1
11	H14-5-15	Jaw Mounting Pin, Larger	2
12	393540	RING, RETAINING, EXTERNAL 1 1/8	2
19	H32-C31-00B	VISE CYLINDER	1
20	H22-5-05B	Plate, Cylinder Mounting	1
21	393575	Ring, Retaining, External 3.00	1
22	363325	WIPER, SHAFT, 1.5 X 1.25 X 0.188, U-1125	4
23	342170	STRIP, WEAR RING, 3IN. SHAFT, 9.678 X 1	4
24	394775	Washer, Lock, 0.5	2
25	390165	Bolt, Hex Head Cap, 0.5-13 X 1	2
26	390880	Bolt, Socket Head Cap, 1-14 x 2.00	2
27	390785	Bolt, Socket Head Cap, 0.50 - 13 x 1.75	1
28	390645	Bolt, Socket Head, Flat, 0.3125 - 18 x 0.75	32



REVISIONS			
REV	ECN NUMBER	DATE	BY
–	–	–	–
–	–	–	–

STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED

DIMENSIONS ARE IN INCHES

LINEAR
.X +/- .015 IN
.XX +/- .010 IN
.XXX +/- .005 IN
= 125 MICROINCHES

ANGULAR
X.X =/- 0.5 DEG

THIRD ANGLE PROJECTION

HYD - MECH
The Rock Solid Solution

HYD - MECH GROUP LIMITED
WOODSTOCK, ONTARIO, CANADA N4S 8A4

TITLE
FRONT VISE ASSEMBLY, RETRACTABLE VISE

MATERIAL CODE:	MAT'L:	SAW CUT LENGTH	DRWN BY: MSILOS	CHKED BY:	SCALE	SHEET	REV
			DATE: MARCH 2013	DATE:	1:14	1 OF 1	–

OVERALL DIMENSIONS: THK/OD | WIDTH/ID | WALL/WT | LENGTH

PART WEIGHT

COATING

DRAWING NUMBER: H32-51-00

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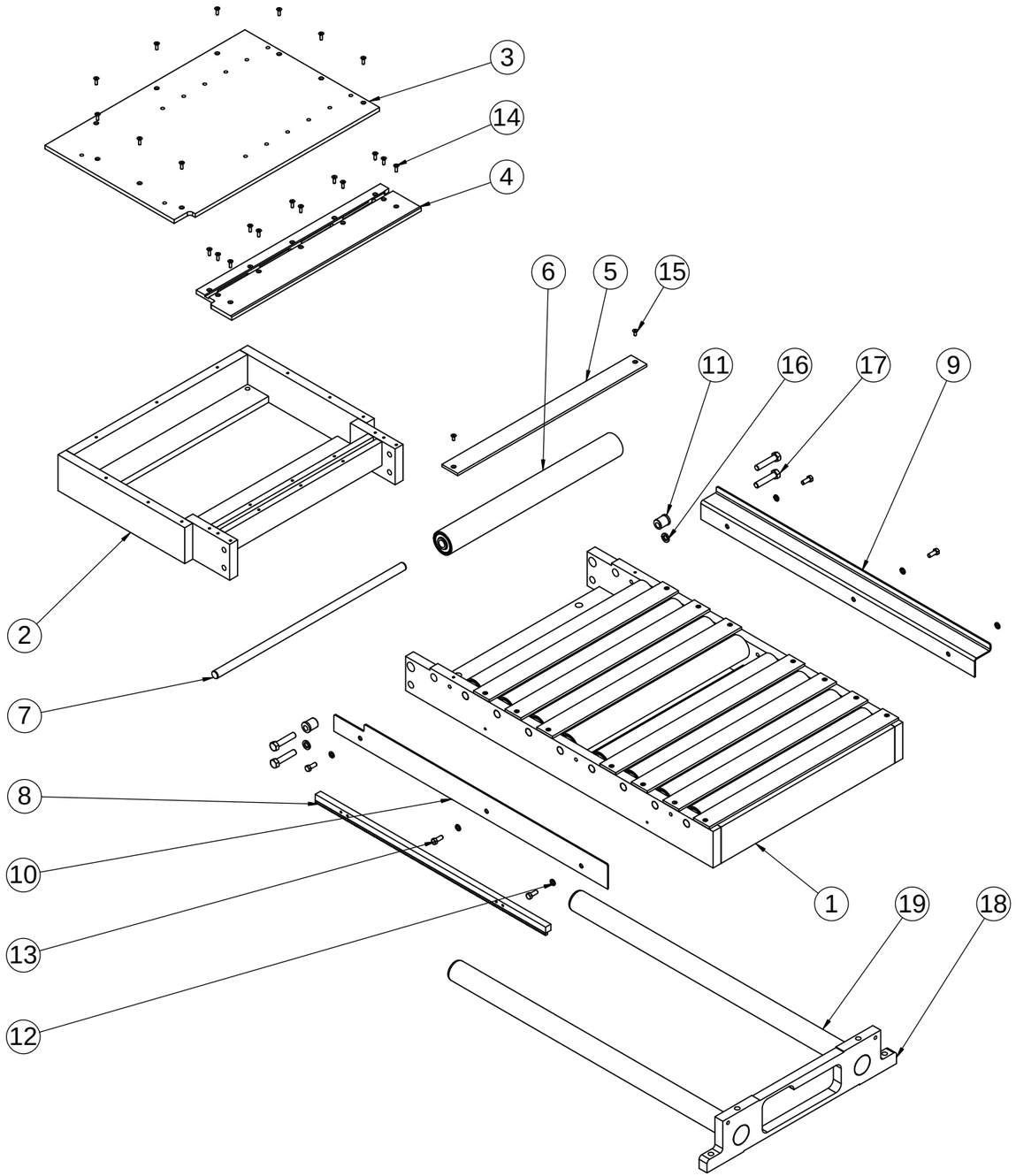
ALL RIGHTS RESERVED.

ITEM#	PART NUMBER	DESCRIPTION	QUANTITY
1	H28-21-00B	INFEED CONVEYOR	1
2	M-H28_F-22-00A	OUTFEED CONVEYOR FRAME	1
3	H28OV-2-02A	OUTFEED TABLE PLATE	1
4	H28-2-01	INFEED PLATE	1
5	H28-2-08	REMOVABLE COVER	8
6	M20-24-00	ASSEMBLY, ROLLER	9
7	H28-2-03A	PIN	9
8	H18-724-00	WELDMENT, BAR RACK	1
9	H28-2-05	PIN HOLDER, IDLER SIDE	1
10	H28-2-04	PIN HOLDER, DRIVE SIDE	1
11	H28-25-01	CONVEYOR ECCENTRIC BUSHING	2
12	394775	Washer, Lock, 0.5	6
13	390170	Bolt,Hex Head Cap, 0.50-13x1.25	6
14	390635	Bolt, Socket Head, Flat, .313-18 x 1	21
15	390645	Bolt, Socket Head, Flat, 0.3125 - 18 x 0.75	16
16	394785	Washer, Lock, 0.75	2
17	390345	Bolt, Hex Head Cap, 0.75 - 10 x 3.50	4
18	H28SV-2-06B	REAR INFEED MTG BKT	1
19	H28SV-2-09	SHUTTLE SHAFT	2

H18SV-G2A-08	FIXED FENCE	1
H18SV-2-09	MOVABLE FENCE	1



REVISIONS			
REV	ECN NUMBER	DATE	BY
-	-	-	-
-	-	-	-

STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED

DIMENSIONS ARE IN INCHES

LINEAR
.X +/- .015 IN
.XX +/- .010 IN
.XXX +/- .005 IN
= 125 MICROINCHES

ANGULAR
X.X =/- 0.5 DEG

THIRD ANGLE PROJECTION

HYD - MECH
The Rock Solid Solution

HYD - MECH GROUP LIMITED
WOODSTOCK, ONTARIO, CANADA N4S 8A4

TITLE
CONVEYOR ASSEMBLY, RETRACTABLE VISE WITH OUTBOARD VISE

MATERIAL CODE:	MAT'L:	SAW CUT LENGTH	DRWN BY: MSILOS DATE: MARCH 2013	CHKED BY: DATE:	SCALE 1:18	SHEET 1 OF 1	REV -

OVERALL DIMENSIONS
THK/OD WDTH/ID WALL/WT LENGTH

PART WEIGHT

COATING

DRAWING NUMBER: **H28OV_6-2-00**

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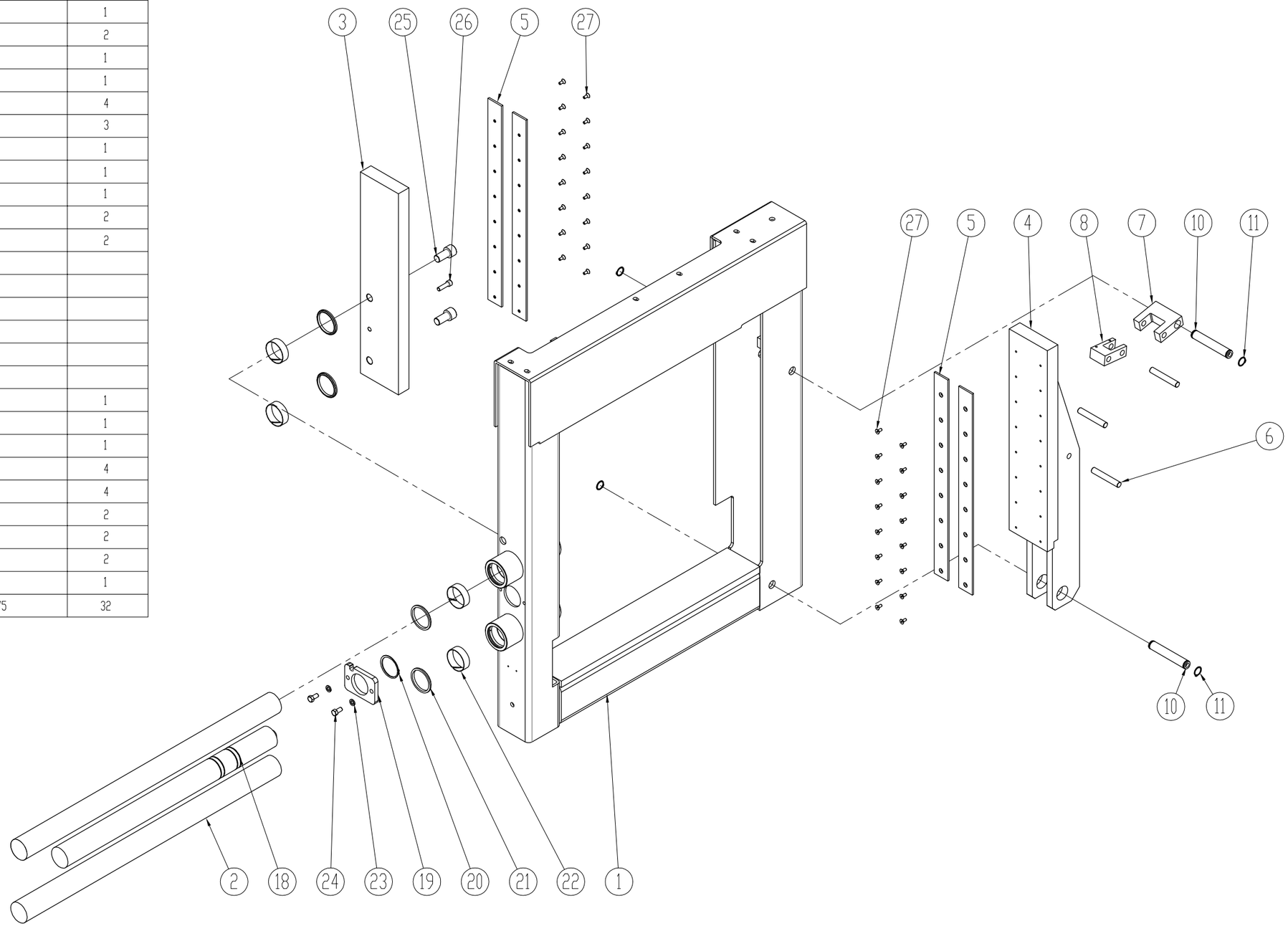
ITEM#	PART NUMBER	DESCRIPTION	QUANTITY
1	H28□V-511-00	SHUTTLE VISE FRAME	1
2	H32-5A-01A	MOVABLE JAW SHAFT	2
3	H32-5A-02F	MOVABLE JAW PLATE	1
4	H32-512A-00A	SHUTTLE VISE - MOVABLE JAW	1
5	H32-5A-03	WEAR STRIP	4
6	H14-5-10	Jaw Mounting Pin, Smaller	3
7	M-H14-5-11	Link, Larger	1
8	M-H14-5-12	Datum Jaw Link, Smaller	1
9	H14-5-14	Pin, Yoke Assembly	1
10	H14-5-15	Jaw Mounting Pin, Larger	2
11	393540	RING, RETAINING, EXTERNAL 1 1/8	2
18	H32-C31-00B	VISE CYLINDER	1
19	H22-5-05B	CYLINDER MOUNTING PLATE	1
20	393575	Ring, Retaining, External 3.00	1
21	363325	WIPER, SHAFT, 1.5 X 1.25 X 0.188, U-1125	4
22	342170	STRIP, WEAR RING, 3IN. SHAFT, 9.678 X 1	4
23	394775	Washer, Lock, 0.5	2
24	390165	Bolt, Hex Head Cap, 0.5-13 X 1	2
25	390880	Bolt, Socket Head Cap, 1-14 x 2.00	2
26	390785	Bolt, Socket Head Cap, 0.50 - 13 x 1.75	1
27	390645	Bolt, Socket Head, Flat, 0.3125 - 18 x 0.75	32



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REVISIONS

REV	ECN NUMBER	DATE	BY
-	-	-	-
-	-	-	-

STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED

DIMENSIONS ARE IN INCHES

LINEAR
.X +/- .015 IN
.XX +/- .010 IN
.XXX +/- .005 IN
= 125 MICROINCHES

ANGULAR
X.X +/- 0.5 DEG

THIRD ANGLE PROJECTION

HYD - MECH
The Rock Solid Solution

HYD - MECH GROUP LIMITED
WOODSTOCK. ONTARIO. CANADA N4S 8A4

TITLE
OUTBOARD VISE ASSEMBLY

MATERIAL CODE:	MAT'L:	SAW CUT LENGTH	DRWN BY: MSILOS	CHKED BY:	SCALE	SHEET	REV
			DATE: MARCH 2013	DATE:	1:14	1 OF 1	-

OVERALL DIMENSIONS
THK/OD WDTH/ID WALL/WT LENGTH

PART WEIGHT

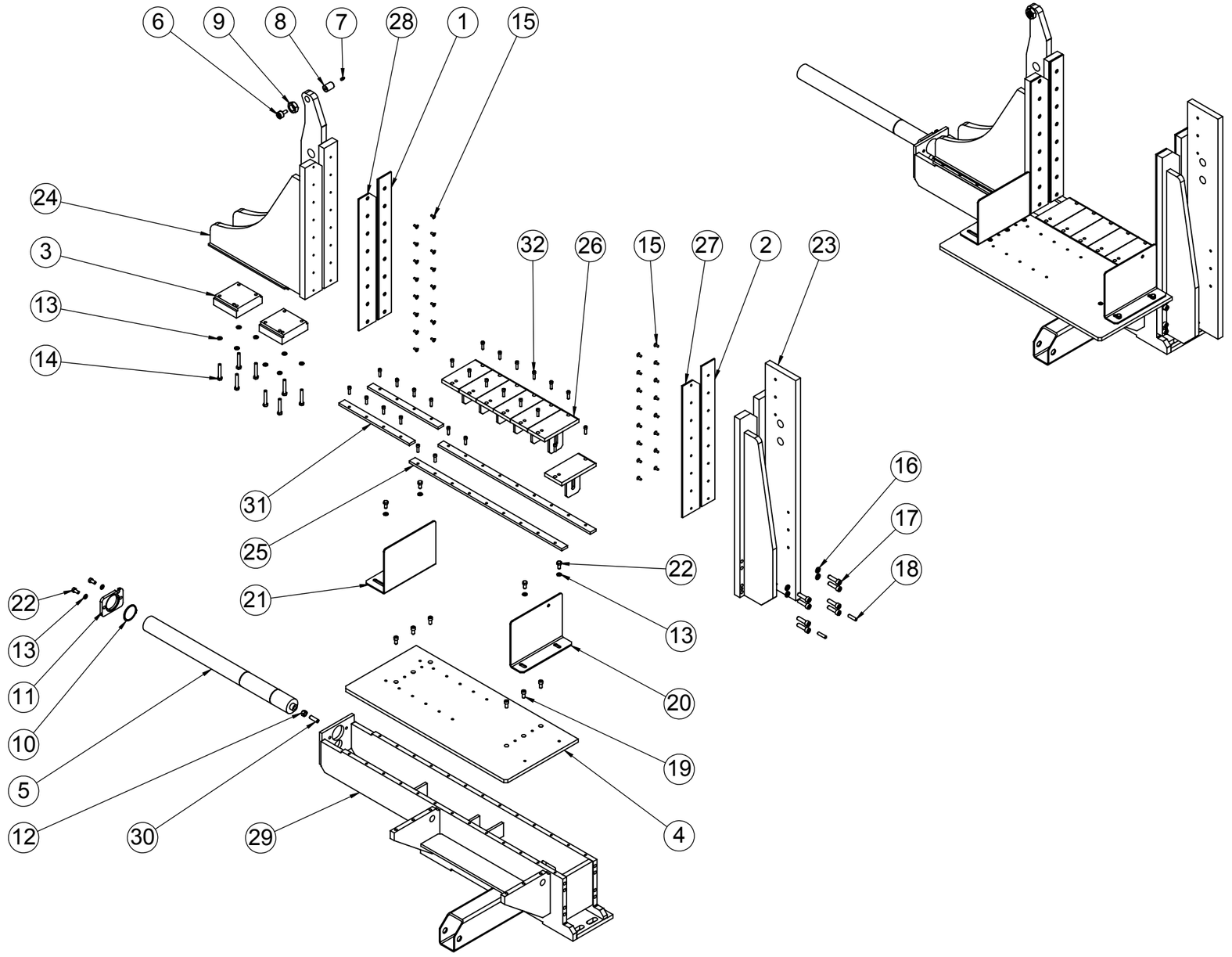
COATING

DRAWING NUMBER: H28□V-51-00

ITEM#	PART NUMBER	DESCRIPTION	QUANTITY
1	H22SV-5-01	Wear Strip	1
2	H32SV-5-02	WEARSTRIP	1
3	H32SV-5-04	VISE SLIDER	2
4	H32SV-2-07B	OUTFEED TABLE	1
5	H32SV-C31-00	Assembly, Cylinder, Front Vise	1
6	340739	Cam Follower, 1 1/4	1
7	391175	FITTING, GREASE STRAIGHT, 0.125 NPT	1
8	H32SV-514-01	ROLLER HOLDER	1
9	392950	Nut, Jam, 1.25-12	1
10	393575	Ring, Retaining, External 3.00	1
11	H22-5-05B	Plate, Cylinder Mounting	1
12	392875	Nut, Hex, 0.625-18	1
13	394775	Washer, Lock, 0.5	14
14	390475	Bolt, Hex Head, Cap, 0.50 - 13 x 3.00	8
15	390645	Bolt, Socket Head, Flat, 0.3125 - 18 x 0.75	32
16	394780	Washer, Lock, 0.625	4
17	390822	Bolt, Socket Head, Cap, 0.625 - 11 x 2.25	8
18	394069	Screw, Set, Cup, 0.50 - 13 x 2.0	2
19	390751	Bolt, Socket Head, Cap, 0.5 - 13 x 1.0	6
20	H18SV-2-08A	FIXED FENCE	1
21	H18SV-2-09	ADJUSTABLE FENCE	1
22	390165	Bolt, Hex Head Cap, 0.5-13 X 1	6
23	M-H32SV-G512-00A	FRONT VISE DATUM JAW	1
24	M-H32SV-513-00	FRONT VISE MOVEABLE JAW	1
25	H22SV-51-01	FRONT VISE WAY	2
26	H32SV-G22-00	TABLE INSERT, CANTED HEAD	7
27	H32SV-G5-05	WEARSTRIP	1
28	H32SV-G5-06	WEARSTRIP	1
29	H32SV-511-00F	FRONT VISE FRAME	1
30	394087	SCREW, SET, CUP POINT, 0.625-18 x 2.0	1
31	H32SV-51-01C	GUIDE RAIL	2
32	390720	Bolt, Socket Head, Cap, 0.375 - 16 x 1.25	26

H28SV CANTED HEAD

1	50000838	WEARSTRIP	1
8	H28SV-514-01	ROLLER HOLDER	1
24	50000845	FRONT VISE MOVEABLE JAW	1
23	50000846	FRONT VISE DATUM JAW	1
27 & 28	50000837	WEARSTRIP	2



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REVISIONS

REV	ECN NUMBER	DATE	BY
A	ECN00133	MAY 2014	RvS
-	-	-	-

STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED

DIMENSIONS ARE IN INCHES

LINEAR
.X +/- .015 IN
.XX +/- .010 IN
.XXX +/- .005 IN
= 125 MICROINCHES

ANGULAR
X.X =/- 0.5 DEG

THIRD ANGLE PROJECTION

HYD - MECH
The Rock Solid Solution

HYD - MECH GROUP LIMITED
WOODSTOCK, ONTARIO, CANADA N4S 8A4

TITLE
FRONT VISE ASSEMBLY, CANTED HEAD, H28SV_H32SV

MATERIAL CODE:	MAT'L:	SAW CUT LENGTH	DRWN BY: MSILOS	CHKED BY:	SCALE	SHEET	REV
ASSEMBLY			DATE: SEPT 2012	DATE:	1:22	1 OF 1	-

OVERALL DIMENSIONS: THK/OD | WDTH/ID | WALL/WT | LENGTH

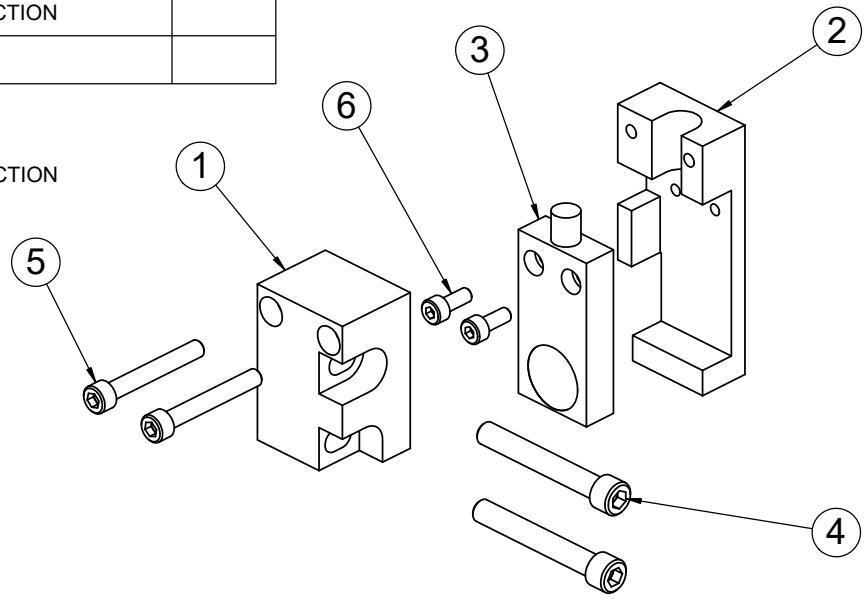
PART WEIGHT | COATING

DRAWING NUMBER: **H32SV-G51-00A**

ITEM#	PART NUMBER	DESCRIPTION	QTY.
1	BD4-1-01	MOUNTING FRONT BLOCK	1
2	BD4-1-02	SENSOR MTG BLOCK	1
3	372435	SENSOR PROXIMITY ANALOG M8 CONNECTOR	1
4	390677	BOLT, SOCKET HEAD, CAP, 0.25-20 X 1.75	2
5	395197	BOLT, SOCKET HEAD CAP, 10-24 x 1.0	2
6	394237	BOLT, SOCKET HEAD CAP, M4-0.7 x 10	2
-	COOL201B_BLDF	COOLANT NOZZLE, BLADE DEFLECTION	
-	COOL202D	COOLANT NOZZLE BACK PLATE	

H32SV

-	COOL321B_BLDF	COOLANT NOZZLE, BLADE DEFLECTION
-	COOL322B	COOLANT NOZZLE BACK PLATE



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REVISIONS

REV	ECN NUMBER	DATE	BY
-	-	-	-
-	-	-	-

STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED

DIMENSIONS ARE IN INCHES

LINEAR
.X +/- .015 IN
.XX +/- .010 IN
.XXX +/- .005 IN
= 125 MICROINCHES

ANGULAR
X.X =/- 0.5 DEG

THIRD ANGLE PROJECTION

HYD - MECH GROUP LIMITED
WOODSTOCK. ONTARIO. CANADA N4S 0A9

TITLE
BLADE DEFLECTION SENSOR

MATERIAL CODE:	MAT'L:	SAW CUT LENGTH	DRWN BY: RvS	CHKED BY:	SCALE	SHEET	REV
ASSEMBLY			DATE: APR 2014	DATE:	1:4	1 OF 1	-

OVERALL DIMENSIONS
THK/OD WDTH/ID WALL/WT LENGTH

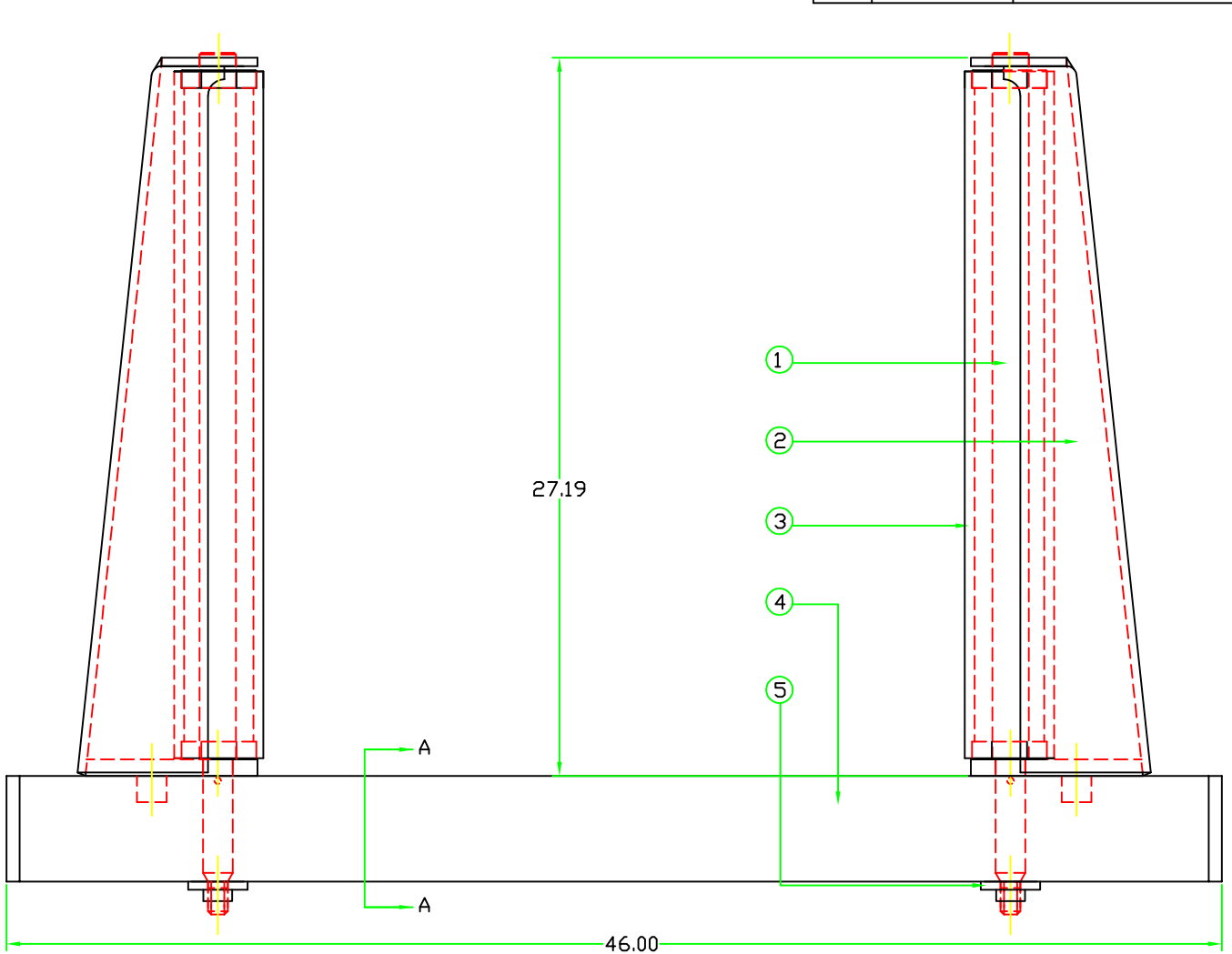
PART WEIGHT | COATING

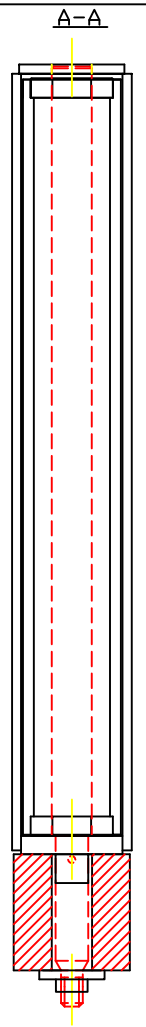
DRAWING NUMBER: **BD4-1-00**

REV#	COORD	CHANGE MADE	DATE	FROM MACH SER.#	APPR. BY
-	-	-	-	-	-

ITEM#	PART#	DESCRIPTION	MAT. CODE	MATERIAL SIZE	QTY
1	H26-G24-01A	PIN	C2-HR-RD	1.375 DIA. X 32.375	2
2	V25-1G11-01	ROLLER TUBE	-	-	2
	340115	BALL BEARING, 6307 2RS	-	-	
3	H26-G242-00	ROLLER HOLDER	WELDT	-	2
4	H26-G243-00A	V. ROLLER MTG. BKT.	WELDT	-	1
5	H26-G24-03	LOWER MOUNTING FLANGE	C3-CR-RD	2.250 DIA X 0.313	2

RTG
OPER-1
-
OPER-2
-
OPER-3
-
OPER-4
-
OPER-5
-
OPER-6
-



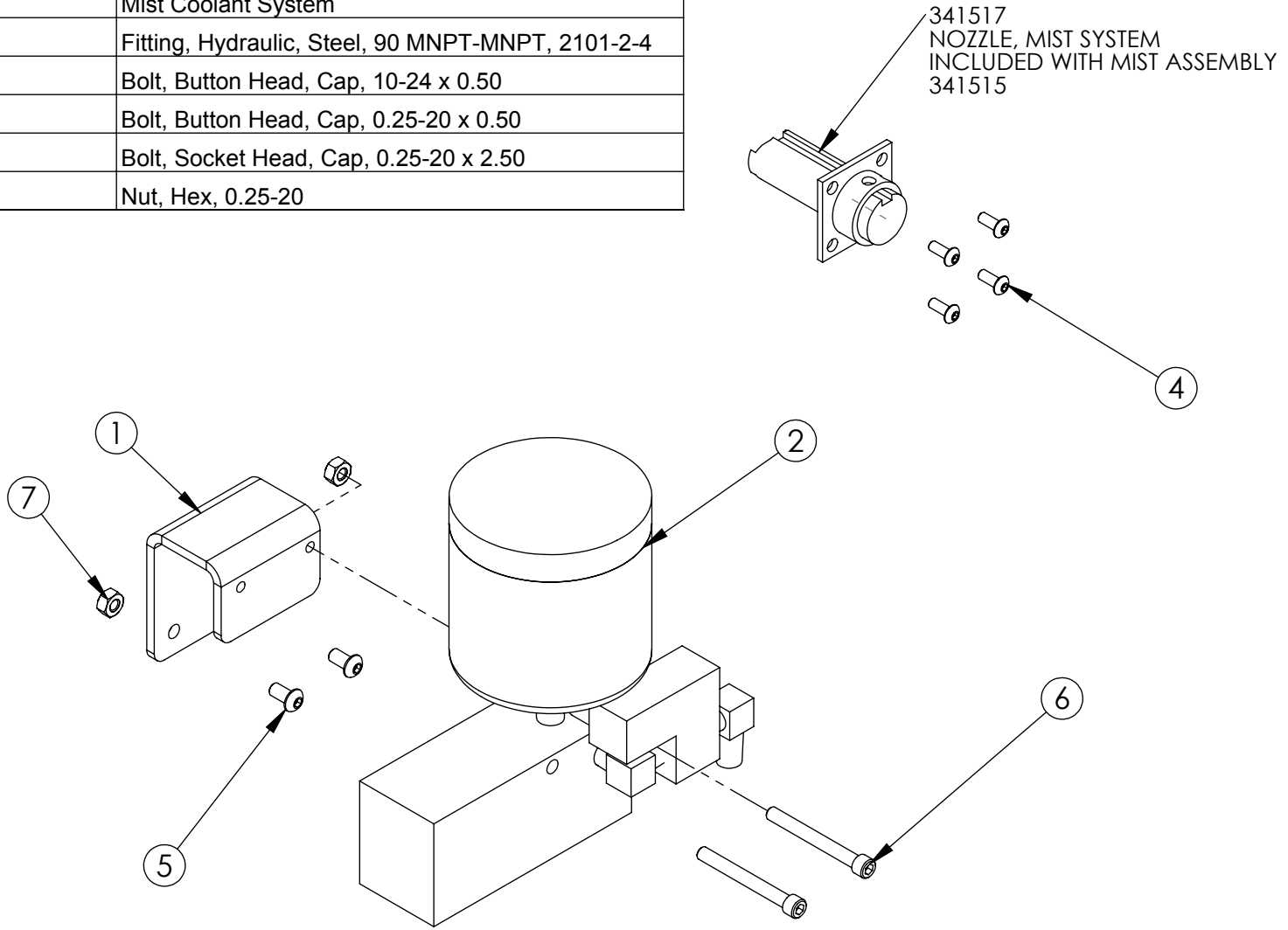


WAS H26-24A-00

TOLERANCES UNLESS OTHERWISE SPECIFIED:					
	MACHINING		WELDING		
ANG:	.X	+/- 0.5 DEG	.X	+/- 0.5 DEG	
DEC:	.X	+/- .015 IN	.X	+/- .063 IN	
DEC:	.XX	+/- .010 IN	.XX	+/- .032 IN	
	.XXX	+/- .005 IN	.XXX	+/- .016 IN	

PART WGT.	DRAWN BY	DATE	HYD-MECH CORP.	PART NUMBER
-	WTR/JCH	MAR.29.99	HOUSTON, TEXAS.	H26-G24A-00
				SHEET 1 OF 1
QTY/MACH	CHKD BY	DATE	PART DESCRIPTION	
-	SCS	-	VERTICAL ROLLER ASSEMBLY	

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	VW18-96A-01	Bracket Dispencer Unit Mounting
2	1	341515	Mist Coolant System
3	2	360515	Fitting, Hydraulic, Steel, 90 MNPT-MNPT, 2101-2-4
4	4	390025	Bolt, Button Head, Cap, 10-24 x 0.50
5	2	390022	Bolt, Button Head, Cap, 0.25-20 x 0.50
6	2	390680	Bolt, Socket Head, Cap, 0.25-20 x 2.50
7	2	392835	Nut, Hex, 0.25-20



REVISIONS			
REV	ECN NUMBER	DATE	BY

STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED

DIMENSIONS ARE IN INCHES

LINEAR: .X +/- .015 IN; .XX +/- .010 IN; .XXX +/- .005 IN

ANGULAR: X.X =/- 0.5 DEG

= 125 MICROINCHES

THIRD ANGLE PROJECTION

HYD - MECH
The Rock Solid Solution

HYD - MECH GROUP LIMITED
WOODSTOCK, ONTARIO, CANADA N4S 8A4

TITLE: ASSEMBLY, MIST COOL, GENERIC

MATERIAL CODE:	MAT'L:	SAW CUT LENGTH	DRWN BY: M.S. DATE: MARCH 2010	CHKED BY: DATE:	SCALE	SHEET	REV
ASSEMBLY					1:3	1 OF 1	-

OVERALL DIMENSIONS THK/OD	WDTH/ID	WALL/WT	LENGTH	PART WEIGHT	COATING
X	X	X			

DRAWING NUMBER: **VW18-96A-00**

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