iCON-100

CNC Pressbrake Controller

Features-

- Latest CNC technology
- 17" Touch screen interface
- Windows 10 operating system
- Pressbrake motion controller
- Direct proportional valve control

- Operator friendly
- Quick draw
- 2D & 3D simulation
- Part modelling
- Automatic bend sequencing

CP iCON interface pendant

iCON-100 CNC

All Axis Configuration
Y1/Y2 - Y - X1/X2 - X - R1/R2 - R - Z1/Z2 - Z - C
Synchro - Nutstop/Torsion Bar - Upstoke - Servo

All makes and models
- Amada - Durma - Gasparini - Steelmaster - Darley - Trumph - Safan
- Kleen - S&E - LVD - Yawei - Promecam - Adira - Haco - Hurco - Baykal - MVD
and many more.....

Part design - Editing - Simulation

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Manual bend sequencing and modelling

AP02_16 F200(B) S4.1 | 0/39 | 24.05.19 2:47 | S-BRACKET 2 > 1.20 > S-RADICAL > S-NARROW 10
Edit Bend Sequence and Functions

Screen Tools

Bend No. = 3

X
29.64

Flip

Rotate

Retract

Delay

Position 0

Edit Sequence

1
4 5 3 2

Last Bend | Next Bend

X To Point | X To Face

Find Seq. | Edit Job | Run Job | Locked Job | Simulate | Jog Axes | Tools | Maint.

AP02_16 F200(B) S4.1 | 0/39 | 24.05.19 2:51 | S-BRACKET 2 > 1.20 > S-STANDARD > S-STANDARD
Edit Bend Sequence and Functions

Screen Tools

Bend No. = 4

X
13.80

Flip

Rotate

Retract

Delay

Position 0

Edit Sequence

Last Bend | Next Bend

X To Point | X To Face

Find Seq. | Edit Job | Run Job | Locked Job | Simulate | Jog Axes | Tools | Maint.

3D Job Library

Screen top: AP02_16 F200(B) S1.1 | 0/34 | 24.05.19 2:30 | QUICK > 1.00 > S-STANDARD > S-STANDARD | Find Old Job

Job ID	Z Length	Bend Qty	Thick	Cut Length	Material	Date↑
S-CLAMP TEST	1000.00	3	3.00	248.09	MS	9/02/2018
S-BRACKET 2	100.00	5	1.20	143.86	AL	9/02/2018
S-BRACKET 1	500.00	5	1.00	357.37	SS	9/02/2018

Right buttons: Screen Tools, Pan, Zoom In, Zoom Out, View All, Switch units, Length, Find Z Length, Delete Job, Save As
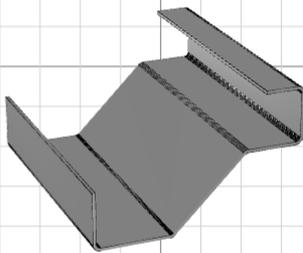
Bottom buttons: New Part, Edit Job, Select Job, Quick Bend, Simulate, Tools, Next, Prev

3D Tooling

Left screen: AP02_22 F200(A) S3.3 | 0/66 | 15.05.19 1:26 | S-BRACKET 2 > 1.20 > S-STANDARD > S-NARROW 10

Die Block ID↓	Shape	V	Height	V Angle	Tons/m	Length
S-STANDARD	Std.	16.00	100.00	88.0°	80	1200.00
S-NARROW 15	Std.	15.00	100.00	88.0°	80	1200.00
S-NARROW 10	Std.	10.00	100.00	88.0°	80	1200.00
S-MULTI 75	Multi	75.00	97.00	88.0°	80	1200.00
S-MULTI 35	Multi	35.00	97.00	88.0°	80	1200.00
S-MULTI 26	Multi	26.00	101.60	75.0°	80	1200.00
S-MULTI 16	Multi	16.00	101.60	88.0°	80	1200.00
S-MULTI 12	Multi	12.00	101.60	88.0°	80	1200.00
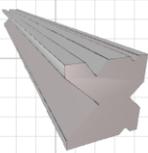
Buttons: Screen Tools, Search Dies, New Die, Search Punches, Position Tools, Save As, Delete Die
Bottom: Edit Job, Select Die, Run Job, Edit Die, Simulate, Jog Axes, Flip Die, Maint.

Right screen: AP02_22 F200(A) S3.1 | 0/66 | 15.05.19 1:25 | S-BRACKET 2 > 1.20 > S-STANDARD > S-NARROW 10

Punch Tool ID↓	Shape	Angle	Height	Tons/m	Length
S-STANDARD	Standard	80.0°	100.00	80	500.00
S-SIMPLE	Simple	60.0°	110.00	80	1200.00
S-SHARP	Sharp	60.0°	110.00	80	1200.00
S-RADICAL	Radical	80.0°	105.00	80	1200.00
S-NARROW	Narrow	88.0°	120.00	80	1200.00
S-FINE	Fine	88.0°	150.00	80	1200.00
S-BIG RADIUS	Big Radius	90.0°	100.00	60	1200.00
S-BASIC HEAVY	Basic Heavy	80.0°	100.00	100	1200.00
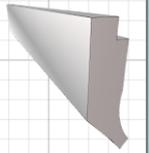
Buttons: Screen Tools, Search Punches, New Punch, Search Dies, Position Tools, Save As, Delete Punch
Bottom: Edit Job, Select Punch, Run Job, Edit Punch, Simulate, Jog Axes, Flip Punch, Maint.

2D Tooling

Punch Library- Create and edit

Punch Tool ID↓	Shape	Angle	Height	Tons/m	Length
S-STANDARD	Standard	80.0°	100.00	80	1200.00
S-SIMPLE	Simple	60.0°	110.00	80	1200.00
S-SHARP	Sharp	60.0°	110.00	80	1200.00
S-RADICAL	Radical	80.0°	105.00	80	1200.00
S-NARROW	Narrow	88.0°	120.00	80	1200.00
S-FINE	Fine	88.0°	150.00	80	1200.00
S-BIG RADIUS	Big Radius	90.0°	100.00	60	1200.00
S-BASIC HEAVY	Basic Heavy	80.0°	100.00	100	1200.00

Property	Value
Shape =	Standard
A =	80.0°
H =	100.00
R =	1.0
W =	30.00
Length [L] =	1200.00
Tons/m =	80
O =	35.00
T =	20.00
J =	40.00
C =	0.00
E =	35.00
G =	30.00
D =	75.00
F =	40.00
B =	12.00

Die Library- Create and edit

Die Block ID↓	Shape	V	Height	V Angle	Tons/m	Length
S-STANDARD	Std.	25.00	100.00	88.0°	80	1200.00
S-NARROW 15	Std.	15.00	100.00	88.0°	80	1200.00
S-NARROW 10	Std.	10.00	100.00	88.0°	80	1200.00
S-MULTI 75	Multi	75.00	97.00	88.0°	80	1200.00
S-MULTI 35	Multi	35.00	97.00	88.0°	80	1200.00
S-MULTI 26	Multi	26.00	101.60	75.0°	80	1200.00
S-MULTI 16	Multi	16.00	101.60	88.0°	80	1200.00
S-MULTI 12	Multi	12.00	101.60	88.0°	80	1200.00

Property	Value
Shape =	Multiple Die
Width [W] =	101.60
V Width [V] =	75.00
Height [H] =	97.0
V Angle [A] =	88.0°
Radius [R] =	1.00
Length [L] =	1200
Tons/m =	80.00
Offset from...	0.00
Shoulder...	0.50
Face [F] =	3

Run Job

First screen (Run Job):

AP02_03 F200(A) S6.4	03.06.19 10:06
0/64	

TEST > 1.20 > S-STANDARD > S-STANDARD
D=190.49 > Touch Point 2 > Touch Point 1 > View All >...

Screen Tools | Measure | Measure X | Measure Y

S 100

Bend No. = 5

QTY 0

S	Y	X	A3	R	C	A6
0%	0.00	0.00	MID	0.00	0.00	0.00

Angle 135.0°
Corr 0.0°
X 163.84
X Corr 0.00
Line OFF
Retract OFF
Y1 132.80
Delay OFF
Dwell 0.3
Flip OFF
X1/0 0
Repeats 0
Rotate OFF
Retract 30

Locked Job | Last Bend | Next Bend
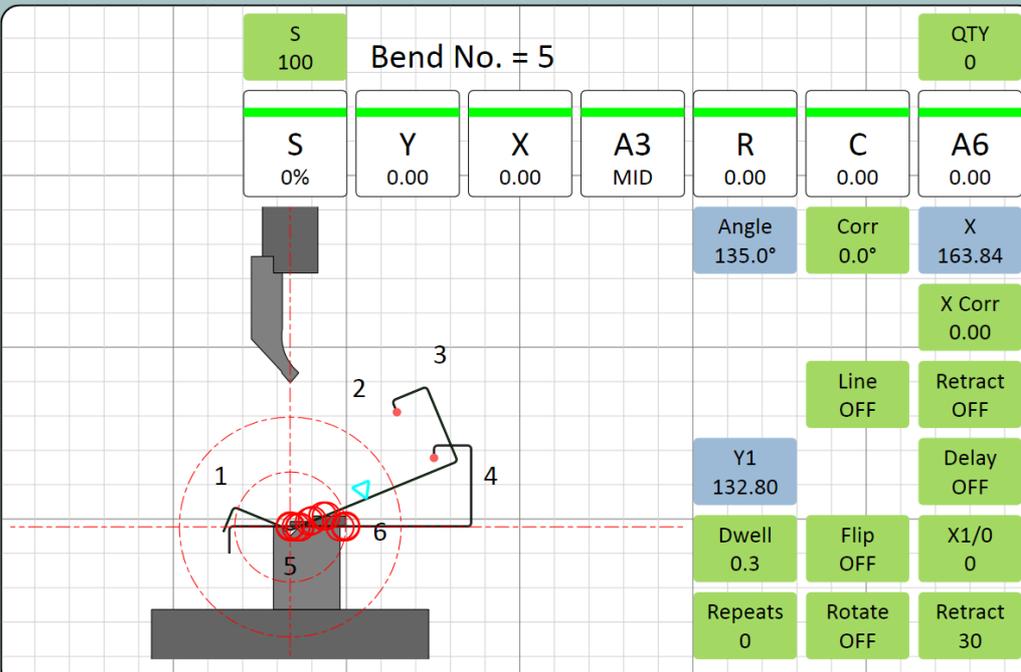
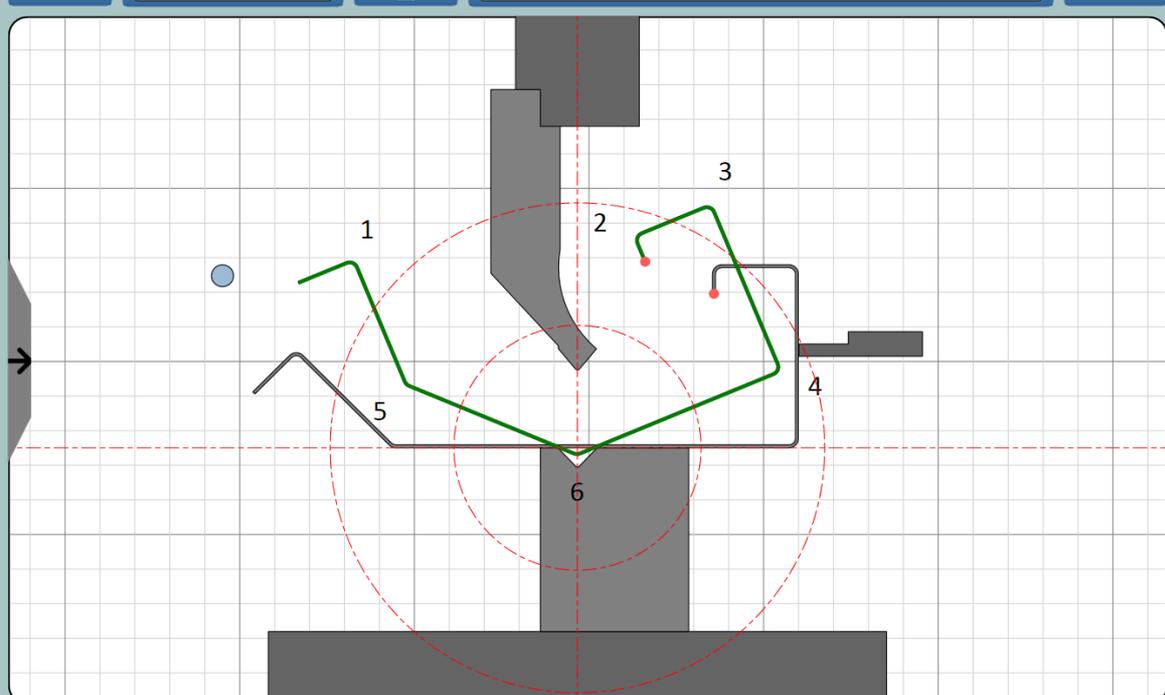Edit Job | Run Job | Single Step | Simulate | Jog Axes | Tools | Maint.

Second screen (Simulate Job):

AP02_03 F200(A) S1.3	03.06.19 10:04
0/63	

NEW19060304 > 1.20 > S-STANDARD > S-STANDARD
Simulate Job

Screen Tools

Edit Job | Run Job | Set Opening | Simulate | Tools | Next | Prev

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Screen 1:

AP02_03 F200(A) S4.1
0/66

03.06.19
10:08

TEST > 1.20 > S-STANDARD > S-STANDARD
Edit Bend Sequence and Functions

Screen Tools

Bend No. = 4

A3
73.53
R
92.36

Flip
Rotate
Retract
Delay
Position 0
Edit Sequence

Last Bend | Next Bend | | | | X To Point | X To Face

Find Seq. | Edit Job | Run Job | | Locked Job | Simulate | Jog Axes | Tools | Maint.

Screen 2:

AP02_03 F200(A) S4.1
0/64

03.06.19
10:06

TEST > 1.20 > S-STANDARD > S-STANDARD
Edit Bend Sequence and Functions

Screen Tools

Bend No. = 5

A3
163.84
R
112.36

Flip
Rotate
Retract
Delay
Position 0
Edit Sequence

Last Bend | Next Bend | | | | X To Point | X To Face

Find Seq. | Edit Job | Run Job | | Locked Job | Simulate | Jog Axes | Tools | Maint.

3D Modelling

Bend No. = 1

A3
286.75

Flip

Rotate

Retract

Delay

Position 0

Edit Sequence

Last Bend   Next Bend

X To Point   X To Face

Bend No. = 3

A3
113.68

Flip

Rotate

Retract

Delay

Position 0

Edit Sequence

Last Bend   Next Bend

X To Point   X To Face
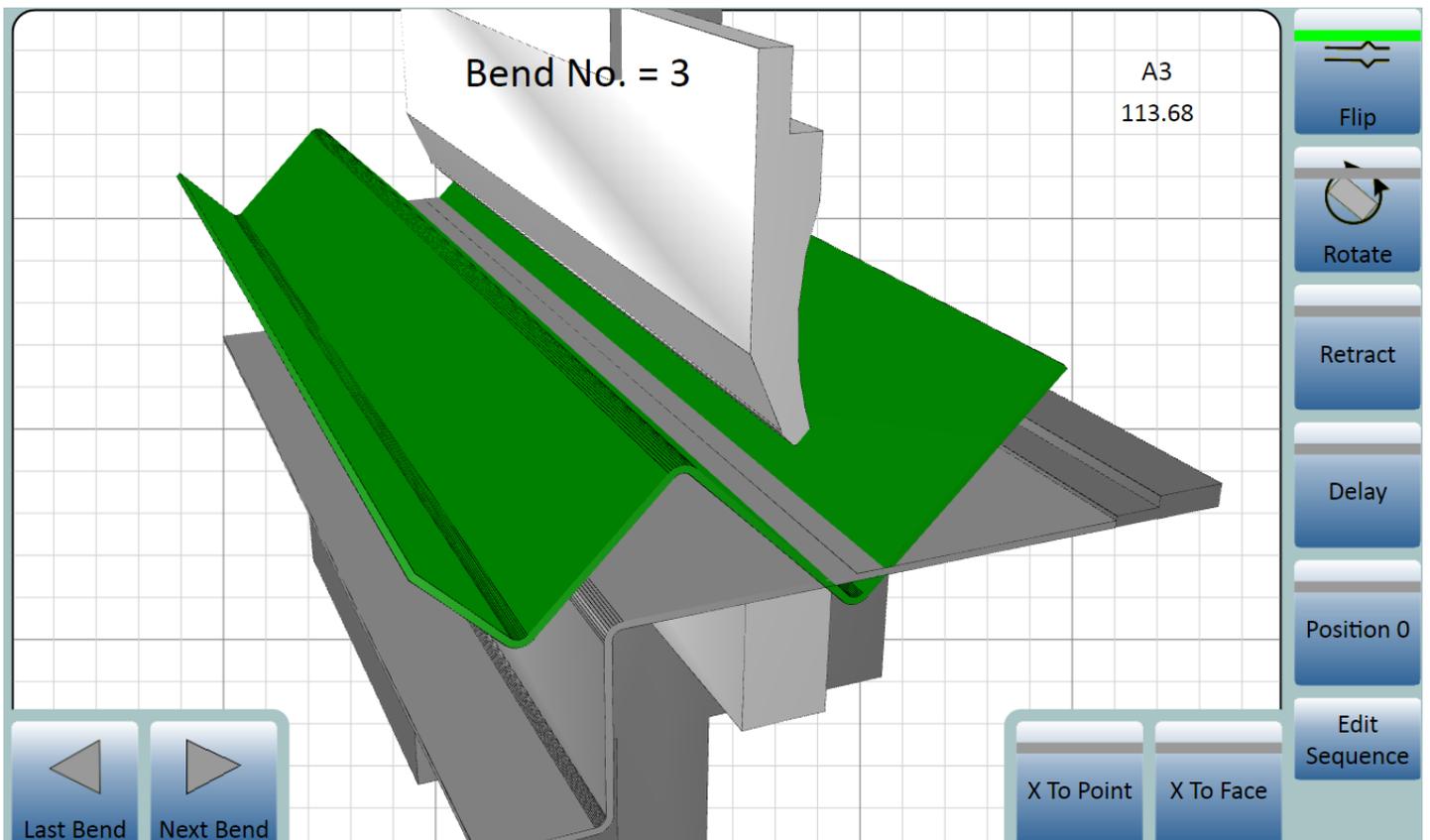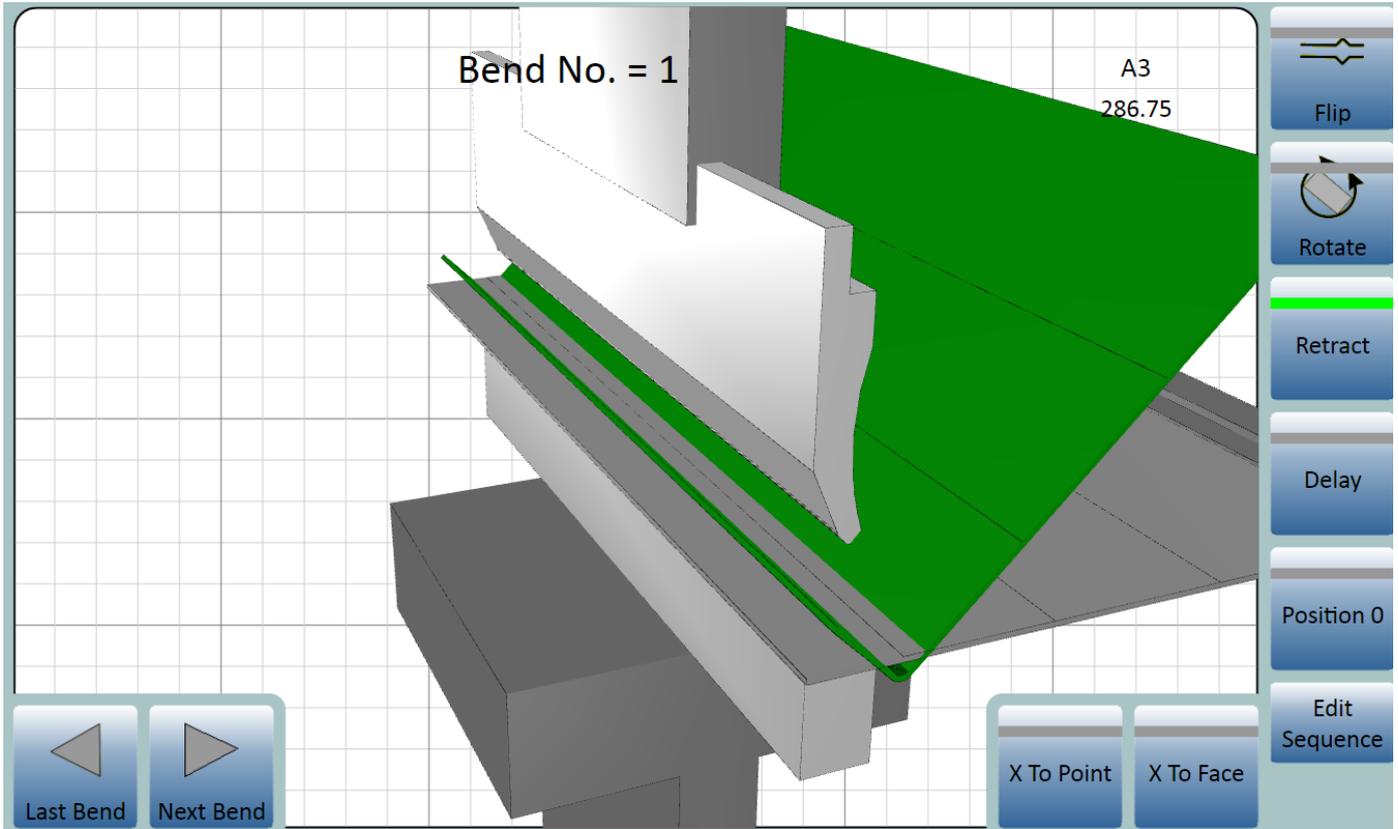
Calibration
Automatic Y Axis Calibration

	AP02_02 F200(S) S7.1	01.12.18 12:16 🔒	QUICK | 3.00 | S-STANDARD | S-STANDARD			Screen Tools
	0/51		Jog Axes | ???			

Y AXES

0.00	0.00	0.00
Move Y1	Move Y1 +Y2	Move Y2
Man Cal	AutoCal	Set Y Feedrate
Feedrate -10	0%	Feedrate +10

Pressure

	80%	Set Pressure
Pressure -10%		Pressure +10%

X AXIS

0.00
Move X
Set X Feedrate

Feedrate -10	0%	Feedrate +10
Abs Cal		GOTO
◀ FWD	Auto Off	▶ REV

◀	Edit Job	Run Job	⟳	Tools	Maint.

Machine Parameters

Height [H] = 2000.00
Width [W] = 1500.00
Throat Width [TW] = 1250.00
Plate Thickness [T] = 30.00
Throat Height [TH] = 450.00
Throat Depth [TD] = 550.00
Throat Position [TP] = 800.00
Throat Radius [TR] = 50.00
Distance between side cheeks [DS] = 2500.00

Frame Dimensions
Top Beam Dimensions
Bottom Dimensions
X Finger Dimensions
Adapter Dimensions
Aux Dimensions

Setting	Value
Setup	
1. Span	156.00
2. Pos Limit	150.00
3. Neg Limit	0.00
4. Output Range	0-10
5. Quad Multiplier	X4
6. PPMM	100.00
7. Calibration Direction	UP
8. Calibration Position	75.00
9. Positioning Style	VELOCITY
10. Fast Dist	20
11. Slow Dist	10
Feedrates	
12. Jog Min	0

Change Value
△ Next UP
▽ Next DN

General Settings
Y Axis
X Axis
Axis 3
Axis 4
Axis 5
Maint.

iCON 100 – Main Hardware Components

Controller Interface
Windows 10, WiFi, Bluetooth, USB 3.0

iCON-1 Pressbrake Controller

Other Components

AC Servo

Digital Linear Encoders and Analog Transducers

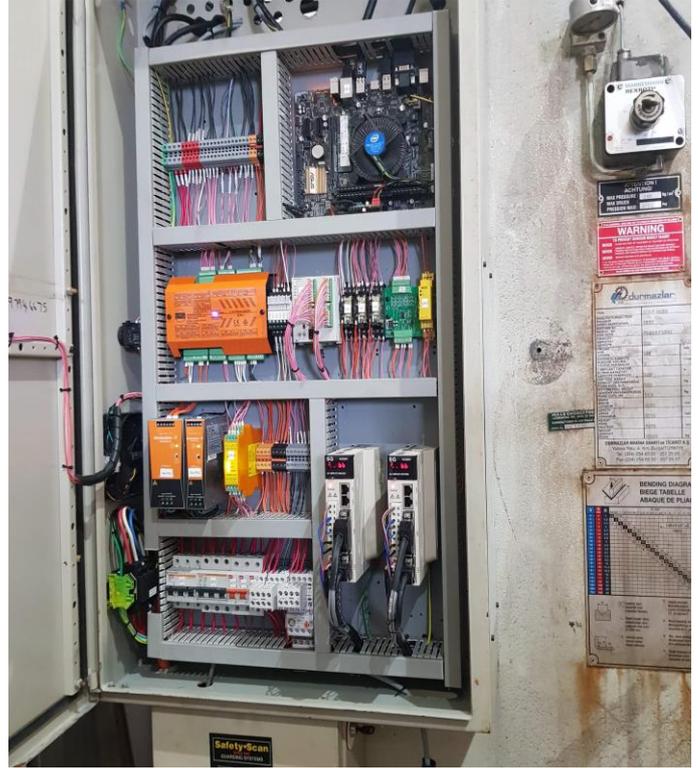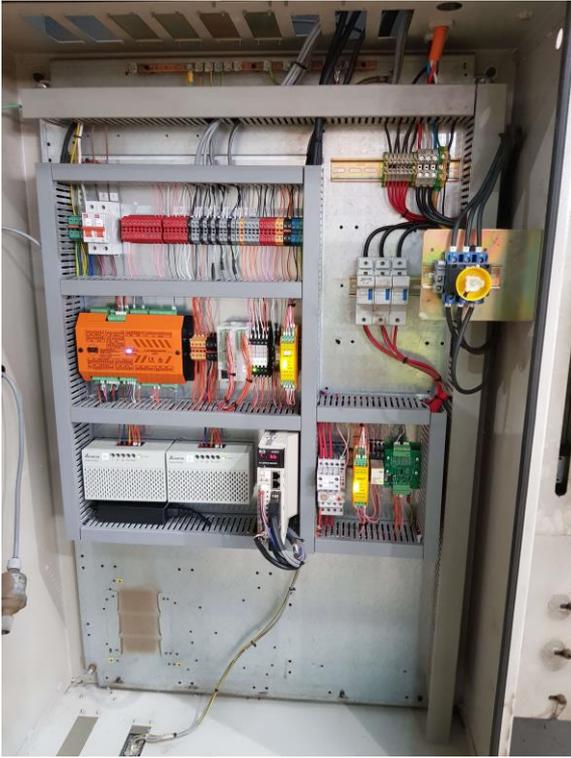
Digital

Analog

CP BLPS Safety Lasers

Omron Safety PLC - Programmed by CP Machinery

Online updates and support

Contact-

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We reserve the right to make changes to equipment presented without prior notice

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