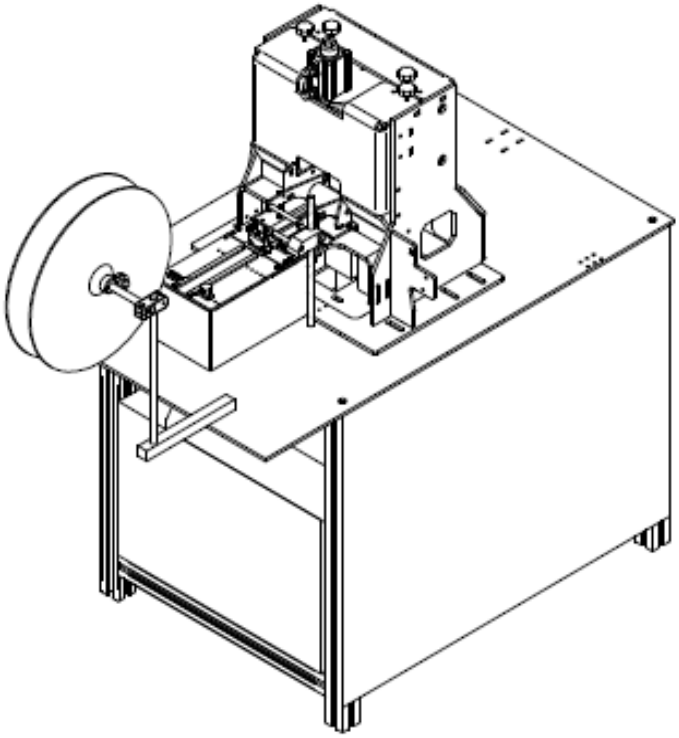
ELITE A.G



KS110 ULTRASONIC CUTTING MACHINE

INSTRUCTION MANUAL

Please read this manual before using.
Please keep this manual within easy reach for quick reference.

ENGLISH

YONTEM MAKINE SERVICE NETWORK
SERVICE HOTLINE : +90 212 433 7743
: +90 212 552 7979
: +90 506 137 8400

E-MAIL : iletisim@yontemmakine.com
WEB : www.yontemmakine.com

SAFETY INSTRUCTIONS

This instruction manual and the indications and symbols that are used on the device itself are provided in order to ensure safe operation of this device and to prevent accidents and injury to yourself or other people.

CAUTION

This thread cutter system should only be used by operators who have received the necessary training in safe use beforehand.
Attach all safety devices before using the cutting machine. If the device is used without these devices attached, injury may result.
Do not touch any of the moving parts or press any objects against the device while sewing, as this may result in personal injury or damage to the device.

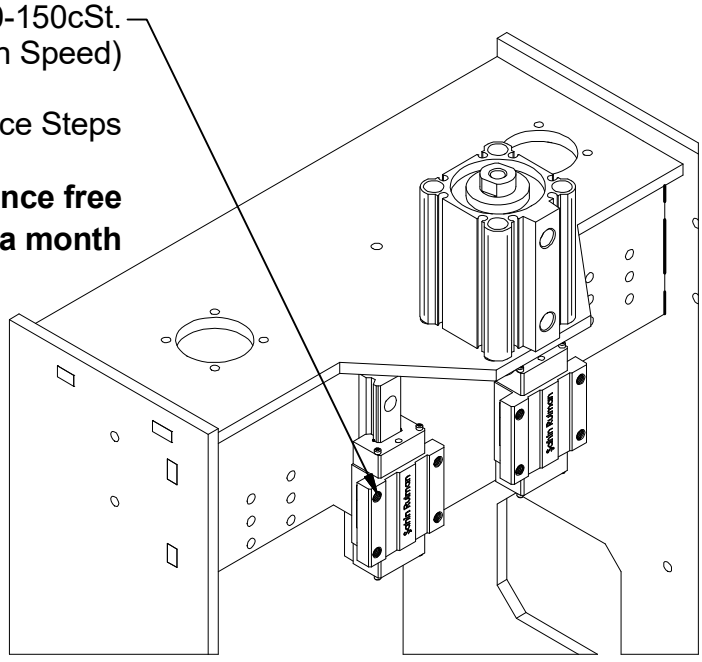
MAINTENANCE INSPECTION

Maintenance and inspection of the device should only be carried out by a qualified technician.
Use only the proper replacement parts as specified by Elite A.G.
If any safety devices have been removed, be absolutely sure to re-install them to their original positions and check that they operate correctly before using the device.
Any problems in device operation which result from unauthorized modifications to the device will not be covered by the warranty.

The recommended viscosity of oil is about 30-150cSt.
(HIWIN G03 Grease of low particle-emitting (High Speed)

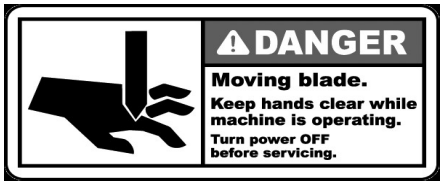
Machine Maintenance Steps

- **Cutting machine maintenance free**
- **Lubricate once a month**



WARNING LABELS

Please follow the instructions on the labels at all times when using the device.If the labels have been removed or are difficult to read please contact ELITE A.G.



INSTALLATION

Parts installation should only be carried out by a qualified technician.

Please contact Elite A.G. for any electrical problem that may need to be repair.

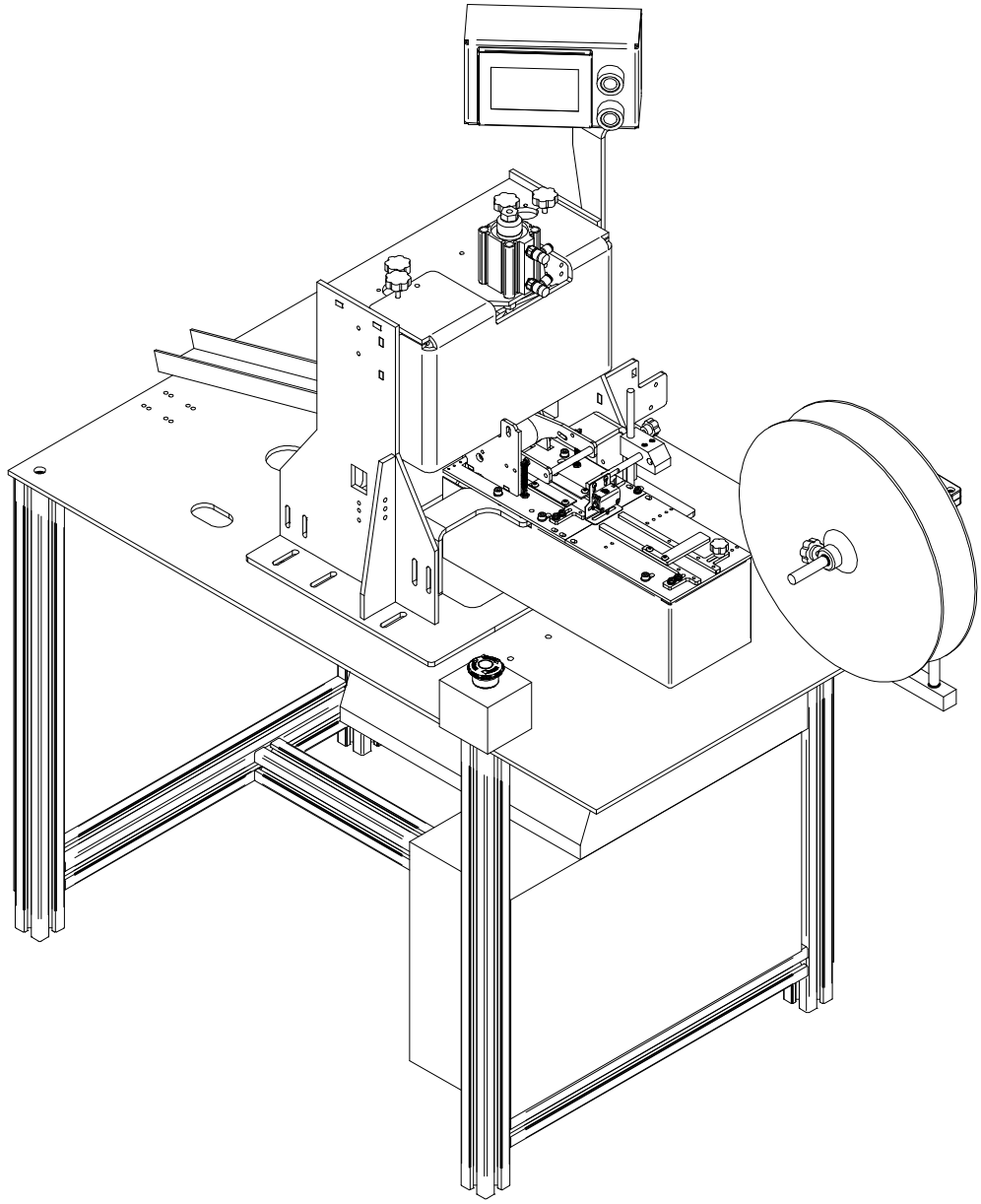
Do not connect the power cord until installation is complete, otherwise the device may operate if the cut switch is depressed by mistake, which could result in injury.

All cord should be secured at least 25mm away from any moving parts.Futhermore , do not excessively bend the cable or secure it too firmly staples, otherwise there is the danger that fire or electric shocks could occur.

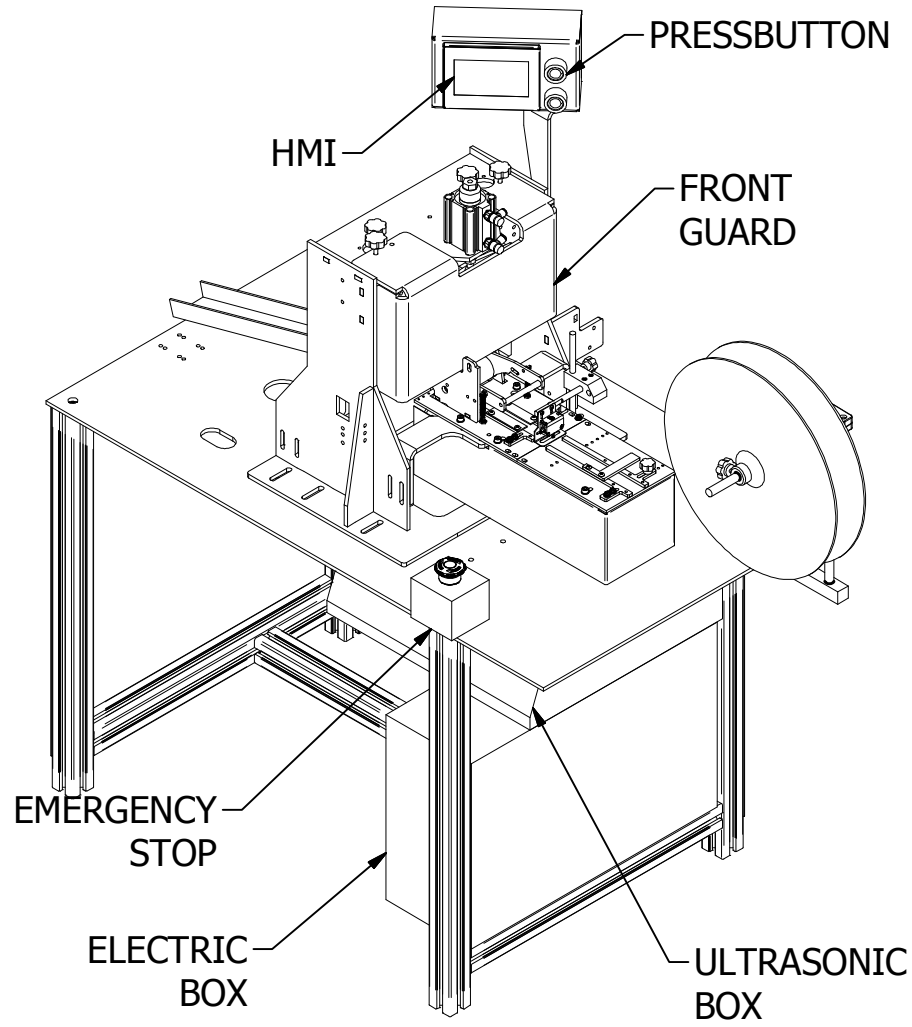
Be sure to connect the ground.If the ground connectıon is not secure, you run the risk of receiving a serious electric shock, and problems with correct operation may also occur.

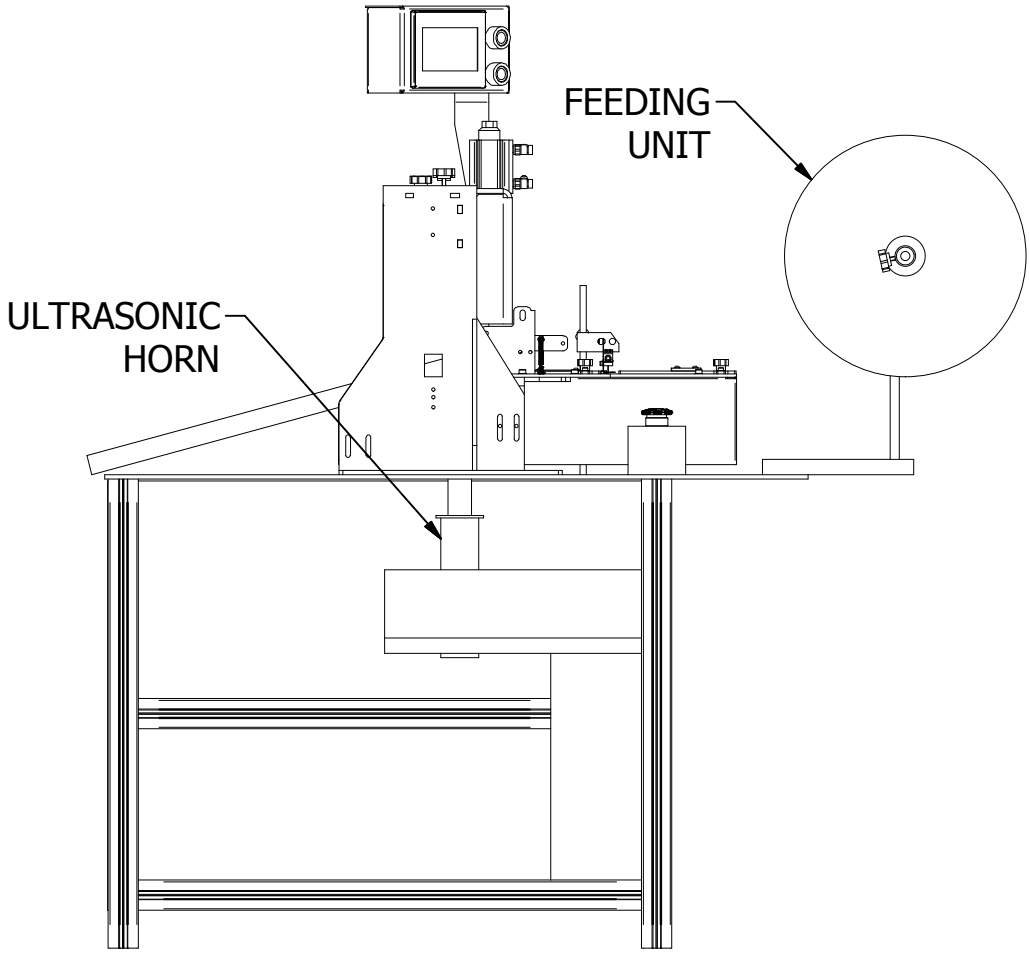
ELITE A.G

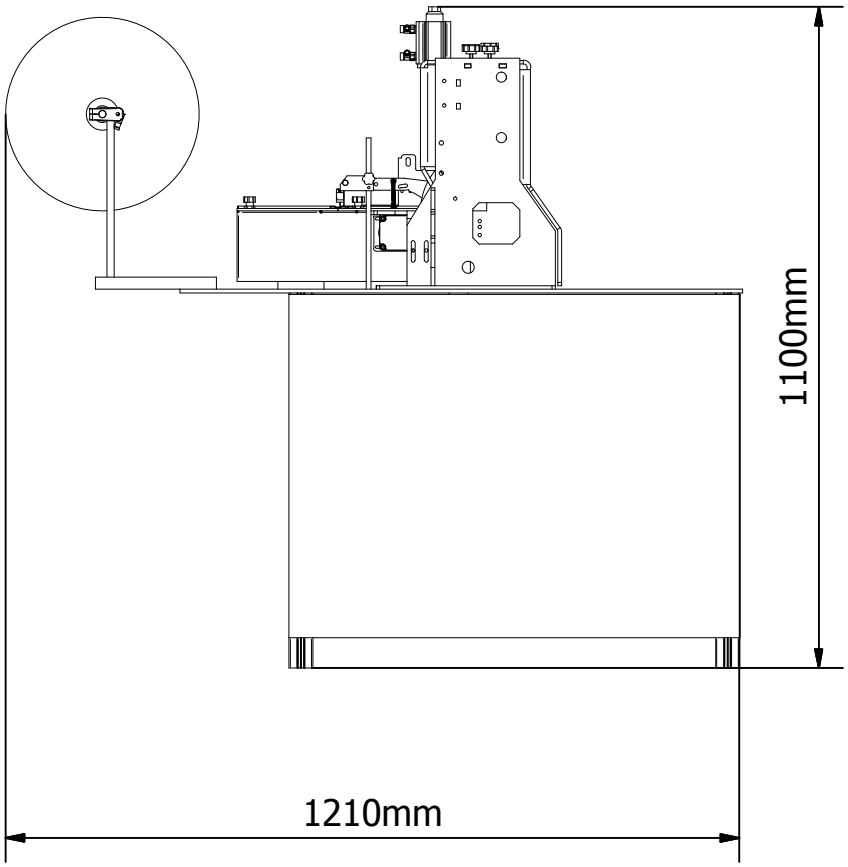
TECHNICAL DATA

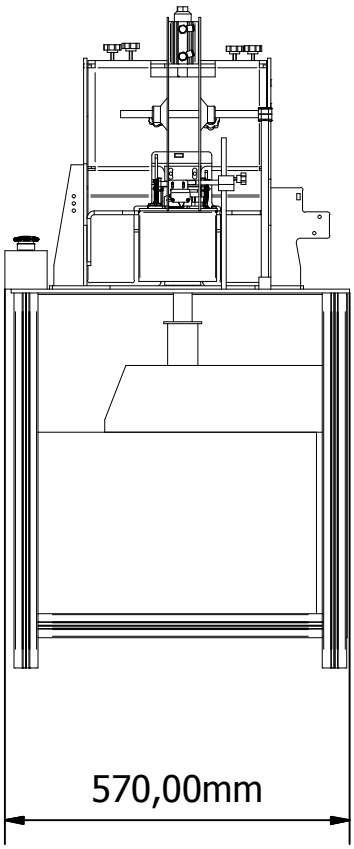


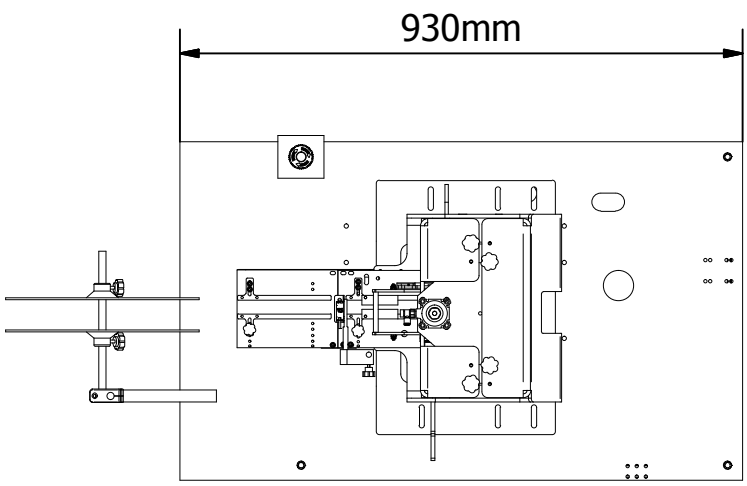
MACHINE TECHNICAL DATA	
1	2
Air Consumption	2lt/Min
Energy	220v
Valve	5/2
Valve Pressure	0.15-0.8Mpa
Valve Energy	DC24V 25W 21.6-26.4V
Regulator Setpress	0.05-0.05 Mpa

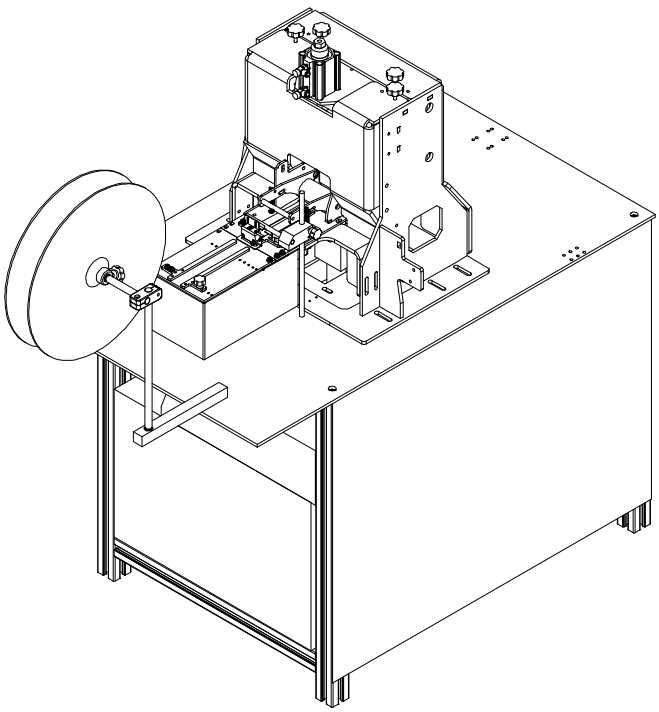

PRESSBUTTON
HMI
FRONT
GUARD
EMERGENCY
STOP
ELECTRIC
BOX
ULTRASONIC
BOX


FEEDING
UNIT
ULTRASONIC
HORN


1100mm
1210mm


570,00mm


930mm



文書 No. :CJ2*-SM0001N

信頼性特性データ：エアシリンダ

型式：標準形／ＣＪ２、低摩擦形／ＣＪ２Ｑ、低速シリンダ／ＣＪ２Ｘシリーズ

B10 データ

エアシリンダ CJ2 標準形、低摩擦、低速シリンダシリーズの以下の耐久性試験結果から、故障確率分布をワイブル分布と仮定した場合の、B10 データの推定値（信頼水準 90%）を以下に示します。

	B10
標準形／ＣＪ２シリーズ	2,280 万回
低摩擦形／ＣＪ２Ｑシリーズ	410 万回
低速シリンダ／ＣＪ２Ｘシリーズ	80 万回

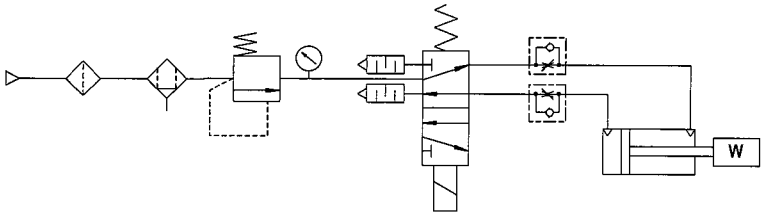
※上表の値は下記耐久試験における部品固有の値ですので、安全機能における本製品の使用可否につきましては、設備設計仕様の枠内においてご判断ください。

耐久試験結果

- 標準形／ＣＪ２シリーズ：15 台の試験を行い、2,500 万回経過後、故障数 0 個
- 低摩擦形／ＣＪ２Ｑシリーズ：10 台の試験を行い、500 万回経過後、故障数 0 個
- 低速シリンダ／ＣＪ２Ｘシリーズ：10 台の試験を行い、100 万回経過後、故障数 0 個

耐久試験条件

① 試験回路



② 圧力　　：0.5MPa
③ 給油　　：無給油
④ 空気源　：ドライエア
⑤ 作動頻度：CJ2&CJ2Q：120 回/秒
　　CJ2X：60 回/秒
⑥ 実験場所：ライフ室
⑦ 周囲温度：常温
⑧ 負荷　　：
CJ2&CJ2Q：軸受部分に加わる横荷重が出力の 1/40 となる負荷
CJ2X：無負荷

承認	確認	作成
課長 10.2.24 佐藤		係長 2010.2.24 松田

Reliability characteristic data for: Air cylinder

Model number : Standard type/CJ2 series

: Low friction type/CJ2Q series

: Low-speed cylinders/CJ2X series

B10 data

Based on the following endurance test results of the cylinder CJ2 series, and assuming a failure mode following the Weibull distribution the following B10 data has been estimated. (90% confidence level)

	B10
Standard type/CJ2 series	22.8 million cycles
Low friction type/CJ2Q series	4.1 million cycles
Low-speed cylinders/CJ2X series	0.8 million cycles

NOTE:
The estimated reliability data provided is only applicable to the component in the stated operating conditions.
Use of this data for any assessment under standards or otherwise, is at the sole risk of the user.
This product is not a safety component and is not supplied to provide a safety function.

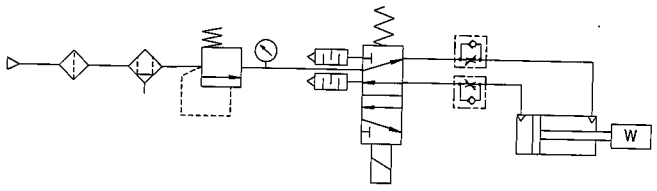
Endurance test results

For reference

- Standard type: 15 pieces were tested up to 25 million cycles, and found to have zero failure.
- Low friction type: 10 pieces were tested up to 5 million cycles, and found to have zero failure.
- Low-speed cylinders: 10 pieces were tested up to 1 million cycles, and found to have zero failure.

Endurance test conditions

1) Test circuit



2) Pressure: 0.5MPa
3) Lubrication: None
4) Air supply: Dry air
5) Operating freq.: CJ2&CJ2Q : 120times / sec.
CJ2X : 60 times / sec.
6) Laboratory: Life test room
7) Ambient temp.: Normal temp. (13 to 33 °C)
8) Load:
CJ2&CJ2Q : The load whose lateral load applied to the bushing is 1/40 of the maximum theoretical output/
CJ2X : No load

Prepared	T. MATSUDA Feb-24-2010
Checked	
Approved	T. Sato Feb-24-2010

Reliability Data : Compact Cylinder

Prepared	H.GOTO 12.JUL.2018
Checked	K.NIKAIDO 12.JUL.2018
Approved	M.OKUMA 12.JUL.2018

Model:CQ2 series

B_{10}data

Based on the life test results of CQ2 series, assuming that a failure mode following the weibull distribution, the following B_{10} data has been estimated (90% confidence level).

Model/Series	B_{10}	Pressure (MPa)	Load
CQ2 series (φ12～200)	8 million cycles	0.5MPa	Maximum allowable lateral load applied to the bushing is 1/20 of the maximum cylinder force.

Notes)

The determination of B_{10} is generally based on the methods described in ISO19973, except for pressure, load.

Warning)

SMC does not take any responsibility for the use of this data or for the use of the product when used in the safety related part of a control system (SRP/CS) according to ISO13849-1.

ELITE A.G

CE
CERTIFICATE

Smarter. Greener. Together.

EC Declaration of Conformity

Product Name: *Human Machine Interface (HMI)* Rev.23

Product identification (catalogue number): DOP-B series
See Appendix for details

are in conformity with the provisions of the following EC Directive(s) when installed in accordance with the installation instructions contained in the product documentation:
We declare under our sole responsibility that the product

2014/35/EU	***Low Voltage Directive (LVD)***
2014/30/EU	***Electromagnetic Compatibility Directive (EMC)***

is herewith confirmed to comply with the requirements set out in the Council Directive(s) for electrical equipment used within certain voltage limits. For the evaluation of the compliance with the Directive(s), the following standards were applied:

LVD :	***EN 61131-2:2007-07***
EMC :	***EN 61131-2: 2007, EN 61000-6-1: 2007, EN61000-6-2: 2005, EN61000-6-4: 2007/A1:2011***

The object of the declaration described above is in conformity with the relevant Union harmonisation legislation: Directives 2006/95/EC and 2004/108/EC(until April 19th, 2016) and Directive 2014/35/EU and 2014/30/EU(from April 20th, 2016).

The following manufacturer/importer is responsible for this declaration:

Delta Electronics, Inc.
(Company Name)

No. 18, Xinglong Rd., Taoyuan City 33068, Taiwan.
(Company Address)

Person responsible for making this declaration:

Brad Wang
(Name)

Industrial Automation Business Group / QE Manager
(Position/Title)

886-3-362-6301 / 886-3-362-7267
(TEL / FAX)

TAIWAN	***Nov. 11th, 2016***	Brad. wang
(Place)	(Date)	(legal Signature)

The First CE Taken Date on April 7th, 2008
Rev. 1.0 was issued on April 17th, 2008
Rev. 2.0 was issued on July 3rd, 2009
Rev. 3.0 was issued on Dec. 25th, 2009
Rev. 4.0 was issued on July 28th, 2010
Rev. 5.0 was issued on Sept. 17th, 2010
Rev. 6.0 was issued on Oct. 19th, 2010
Rev. 7.0 was issued on Feb. 10th, 2011
Rev. 8.0 was issued on Feb. 17th, 2011
Rev. 9.0 was issued on Sep. 15th, 2011
Rev. 10.0 was issued on Oct. 25th, 2011
Rev. 11.0 was issued on Dec. 5th, 2011
Rev. 12.0 was issued on Dec. 28th, 2011
Rev. 13.0 was issued on Mar. 27th, 2012
Rev. 14.0 was issued on Jun. 7th, 2012
Rev. 15.0 was issued on Sep. 3rd, 2012
Rev. 16.0 was issued on Nov.29th,2012
Rev. 17.0 was issued on Jan.07th,2013
Rev. 18.0 was issued on May.16th,2013
Rev. 19.0 was issued on Oct. 22nd, 2013
Rev. 20.0 was issued on May. 23rd, 2014
Rev. 21.0 was issued on Aug. 10th, 2015
Rev. 22.0 was issued on Oct. 21st, 2015

Issued to:	SICK PRODUCT CENTER ASIA PTE LTD 8, Admiralty Street #04-11, Admirax Singapore757438 SG
This is to certify that representative samples of	PROXIMITY SWITCHES See Addendum Page for Product Designation(s).
	Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.
Standard(s) for Safety:	UL 60947-1 - Low-Voltage Switchgear and Controlgear – Part 1: General Rules UL 60947-5-2 Low-voltage Switchgear and Controlgear - Part 5-2: Control Circuit Devices and Switching Elements - Proximity Switches CSA C22.2 No. 60947-1 Low-Voltage Switchgear and Controlgear - Part 1: General Rules CSA C22.2 No. 60947-5-2 Low-voltage switchgear and Controlgear - Part 5-2: Control circuit devices and switching elements - Proximity switches
Additional Information:	See the UL Online Certifications Directory at https://iq.ulprospector.com for additional information

This Certificate of Compliance does not provide authorization to apply the UL Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements

Class 2, Photoelectric Proximity Switches, Series KT, consisting of Models KT, followed by M, followed by -W, -M, -R, -G, -B, -L or -S, followed by N, P, B or 0, followed by 4 numbers or characters, followed by 0, 1, 2, 3 or 4, followed by P or V, may be followed by a character, may be followed by 2 numbers.

Class 2, Photoelectric Proximity Switches, Series CS, consisting of Models CS, followed by M, followed by –W or -S, followed by N, P, B or 0, followed by 4 numbers or characters, followed by 0, 1, 2, 3 or 4, followed by P or V, may be followed by a character, may be followed by 2 numbers.

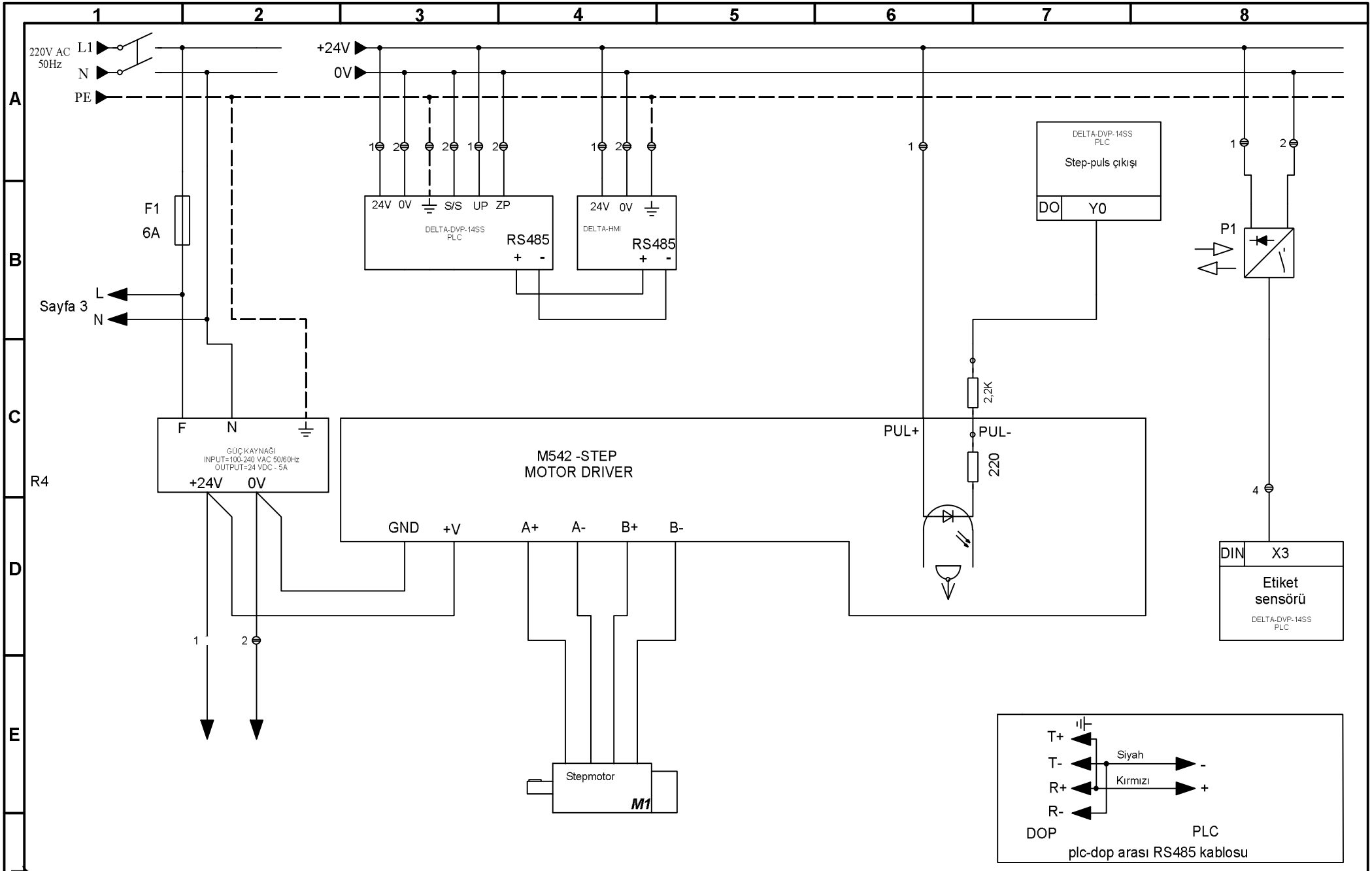
Class 2, Photoelectric Proximity Switches, Series LUT, consisting of Models LUT, followed by M, followed by –B, -U or -S, followed by N, P, B or 0, followed by 4 numbers or characters, followed by 0, 1, 2, 3 or 4, followed by P or V, may be followed by a character, may be followed by 2 numbers.

Product p/n.				
DOP-B03S210	DOP-B07E411	DOP-B07S401K	DOP-B08E515	DOP-B10S511Z0
DOP-B03E211	DOP-B07E415	DOP-B07S410	DOP-B08S515	DOP-B10S615
DOP-B03S211	DOP-B07E515	DOP-B07S411	DOP-B0S211	DOP-B10S651
DOP-B03S211Z0	DOP-B07HE415	DOP-B07S411K	DOP-B10E515	DOP-B10VS511
DOP-B04S11	DOP-B07PS415	DOP-B07S411Z0	DOP-B10E615	DOP-B10WE615
DOP-B04S211	DOP-B07PS515	DOP-B07S411Z1	DOP-B10HE615	-
DOP-B05S100	DOP-B07S200	DOP-B07S411ZF	DOP-B10PE515	-
DOP-B05S101	DOP-B07S201	DOP-B07S415	DOP-B10S411	-
DOP-B05S111	DOP-B07S201A	DOP-B07S515	DOP-B10S411Z0	-
DOP-B07410	DOP-B07S211	DOP-B07WE415	DOP-B10S511	-

The First CE Taken Date on April 7th, 2008
Rev. 1.0 was issued on April 17th, 2008
Rev. 2.0 was issued on July 3rd, 2009
Rev. 3.0 was issued on Dec. 25th, 2009
Rev. 4.0 was issued on July 28th, 2010
Rev. 5.0 was issued on Sept. 17th, 2010
Rev. 6.0 was issued on Oct. 19th, 2010
Rev. 7.0 was issued on Feb. 10th, 2011
Rev. 8.0 was issued on Feb. 17th, 2011
Rev. 9.0 was issued on Sep. 15th, 2011
Rev. 10.0 was issued on Oct. 25th, 2011
Rev. 11.0 was issued on Dec. 5th, 2011
Rev. 12.0 was issued on Dec. 28th, 2011
Rev. 13.0 was issued on Mar. 27th, 2012
Rev. 14.0 was issued on Jun. 7th, 2012
Rev. 15.0 was issued on Sep. 3rd, 2012
Rev. 16.0 was issued on Nov.29th,2012
Rev. 17.0 was issued on Jan.07th,2013
Rev. 18.0 was issued on May.16th,2013
Rev. 19.0 was issued on Oct. 22nd, 2013
Rev. 20.0 was issued on May. 23rd, 2014
Rev. 21.0 was issued on Aug. 10th, 2015
Rev. 22.0 was issued on Oct. 21st, 2015

ELITE A.G

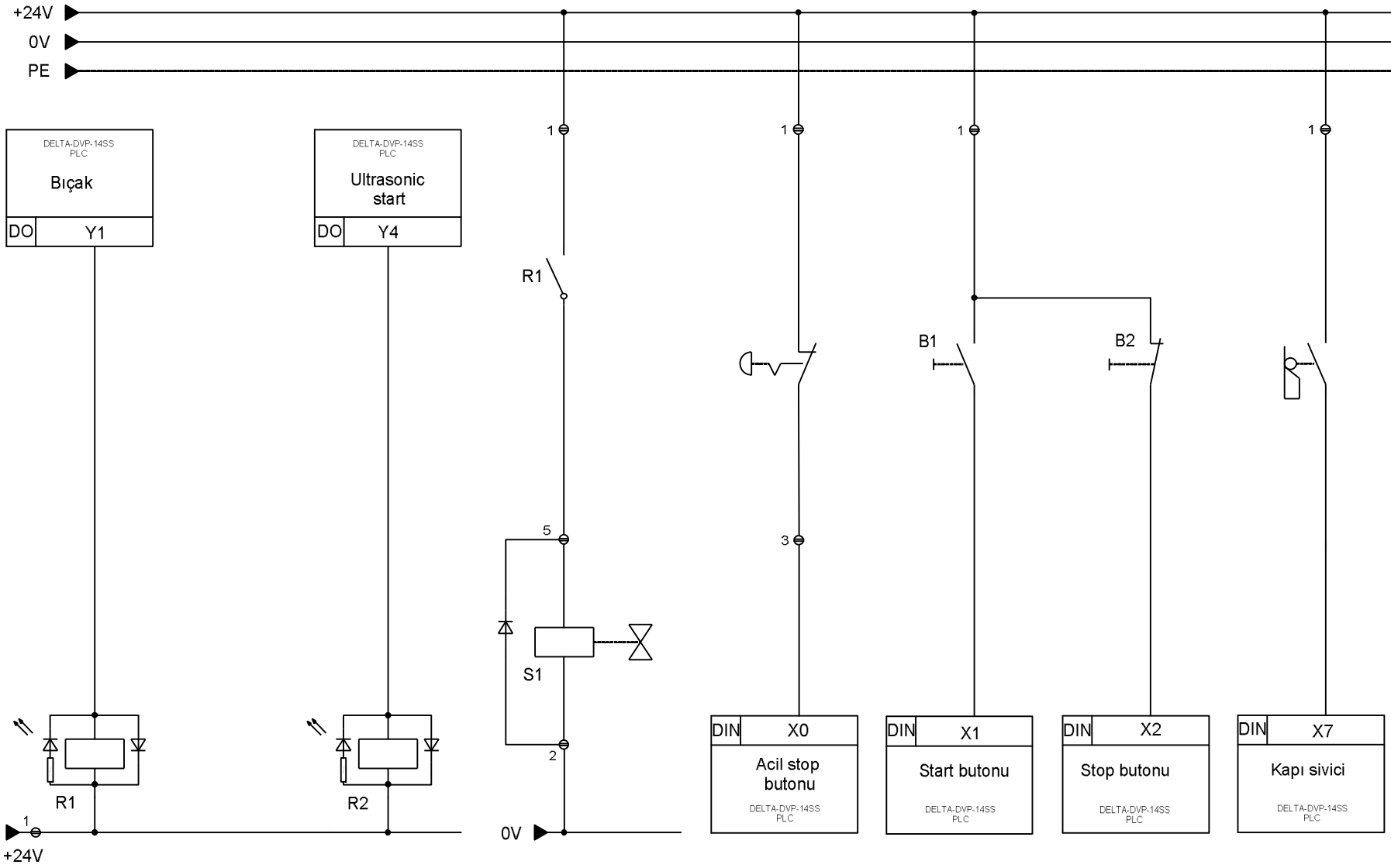
ELECTRICAL DRAWING



Tarih	1.04.2022	İmza	
Çizen	Hasan GÜLDOĞUŞ		
Kontrol			**Açıklama:**
Onay			

Sayfa No: 1

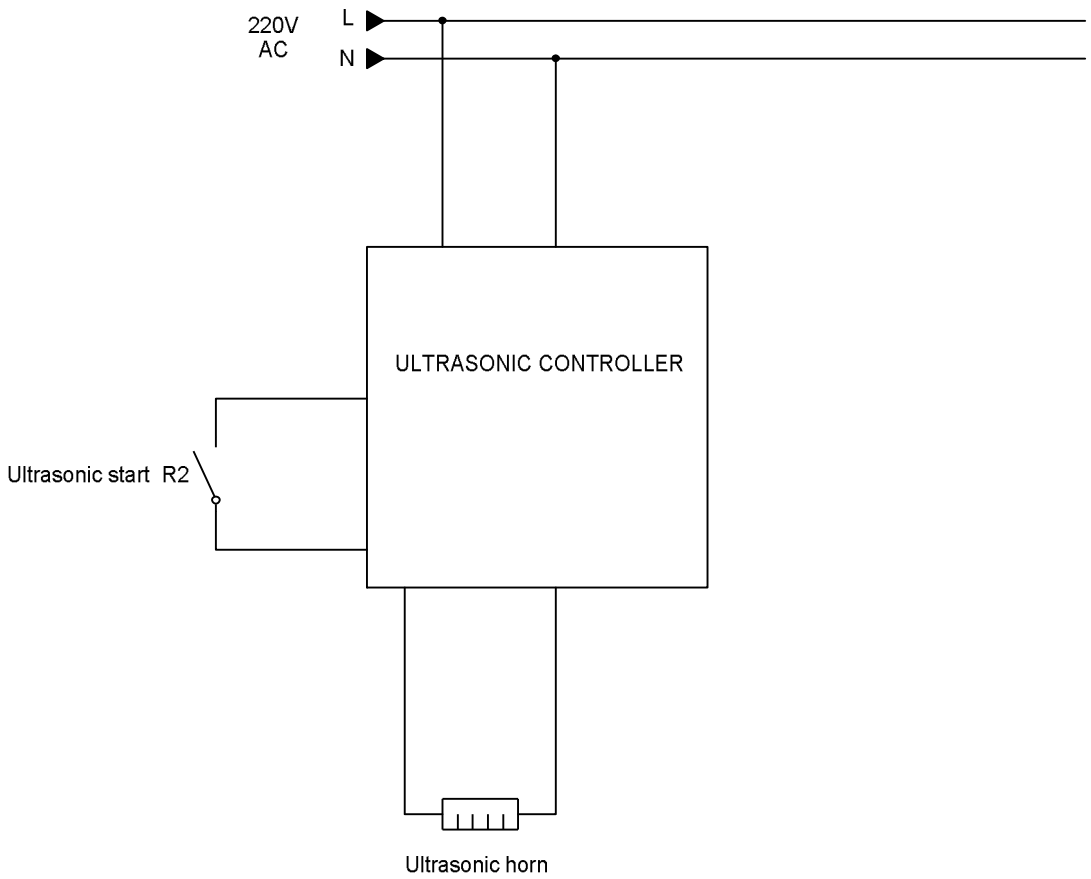
ELITE A.G.



Tarih	1.04.2022	İmza	
Çizen	Hasan GÜLDOĞUŞ		
Kontrol			*Açıklama:*
Onay			

Sayfa No: 2

ELITE A.G.



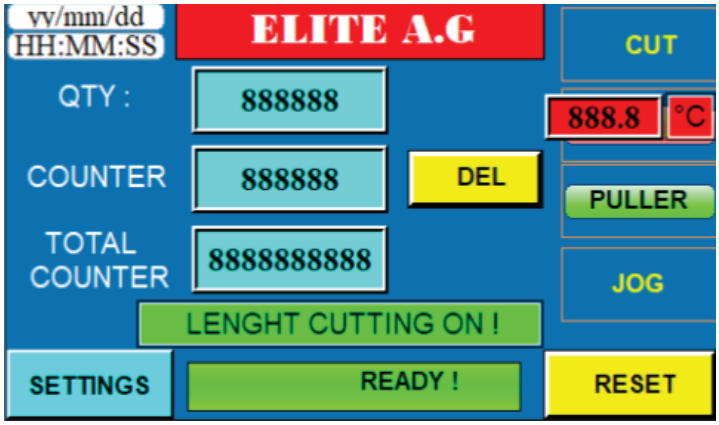
Tarih	1.04.2022	İmza	
Çizen	Hasan GÜLDOĞUŞ		
Kontrol			*Açıklama:*
Onay			

Sayfa No: 3

ELITE A.G.

ELITE A.G

USER MANUAL



Main screen function buttons ;

SETTINGS : Enter settings menu.

CUT : Manual knife cutting.(**Only works on when machine STOP**).

PULLER : Increase or Decrease puller.

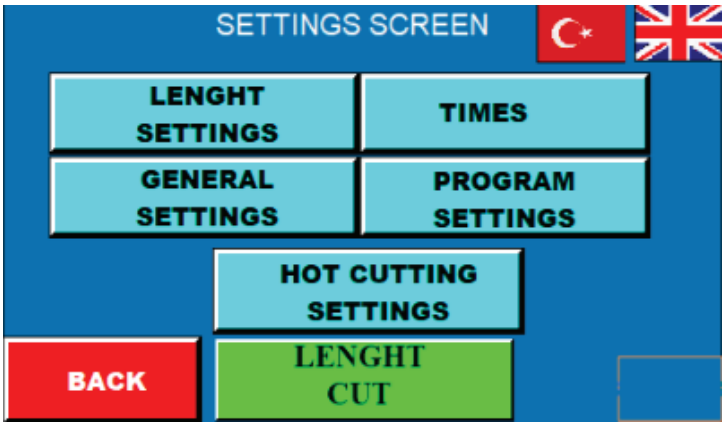
JOG : Manually working freeding motor. (**Only works on when machine STOP**).

QTY : Enter working quantity.

COUNTER : Already finish quantity.You can reset with **RESET** button.

TOTAL COUNTER : This shows total working quantity, from beginning.You can RESET if you wish.

READY ! : It show all problems about machine in this area. READY ! You can start working.



LENGHT SETTINGS : Enter for adjust lenght.

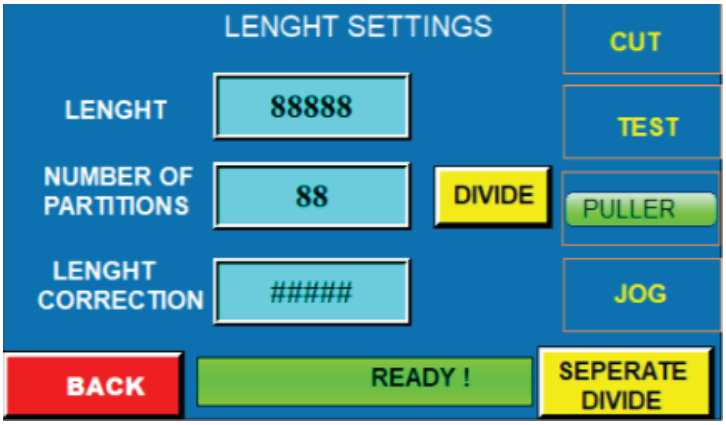
TIMES : Enter for adjust cutting time.

GENERAL SETTINGS : Enter for adjust machine general settings.

PROGRAM SETTINGS : Enter for save or load your ADJUSTMENTS.

HOT CUTTING SETTINGS : Enter for adjust temperature.

BACK : Enter for back to previous menu.

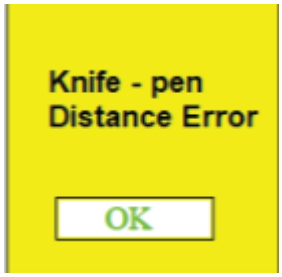


LENGTH : Enter you lenght with Milimeter.

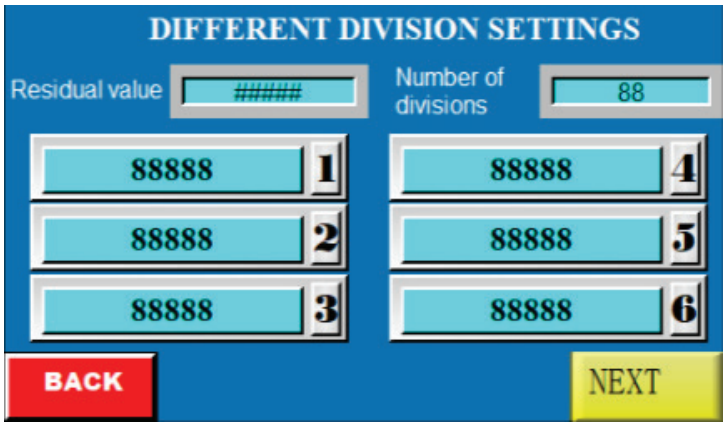
TEST : Push for test your lenght.

NUMBER OF PARTITIONS : After entering the lenght , lenght is taken into the memory of the machine by pressing this button. Press the divide button each lenght change.

LENGHT CORRECTION :If machine give shorter than your lenght you can make correction from here.

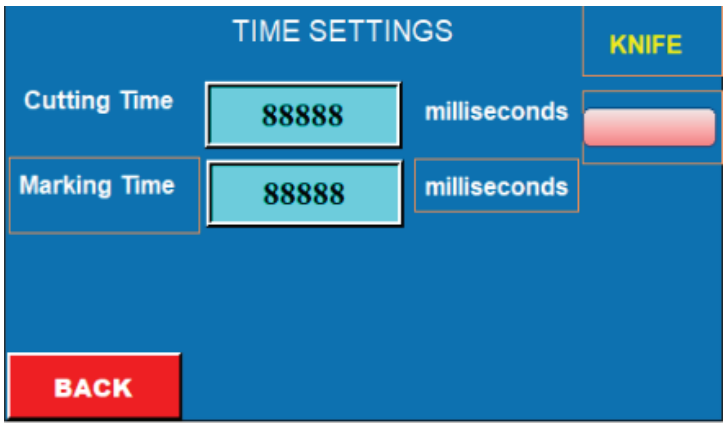


KNIFE-PEN DISTANCE CANNOT BE ENTERED LESS THAN 104MM

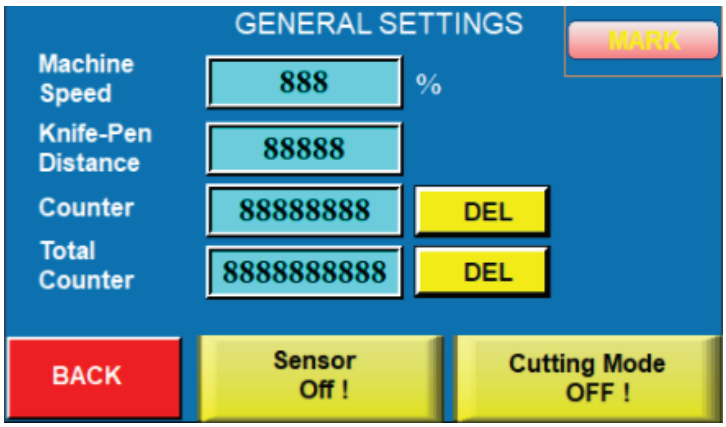


RESIDUAL VALUE : INCREASING VALUE FROM INTEGER.

NUMBER OF DIVISIONS : THE DESIRED PARTITION RANGES VALUE IS ENTERED



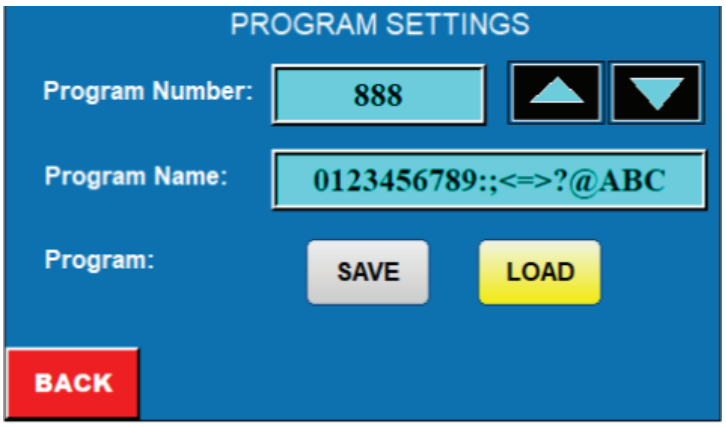
Knife cutting time and marking time are precisely adjusted in mm on this screen.



Knife-Pen Distance : Measure the distance between the pencil and knife and entered mm.The machinbe only uses this value in marking mode. (DONT CHANCE THIS SETTINGS UNLESS THE KNIFE-PEN CHANGES.)

If you read empyt program, the value here may be zero.In this case, the blade spacing value must be entered here again.

If cuttıng is disabed the machine works without cutting.



You can SAVE or LOAD your programs from this MENU.
You can SAVE maximum 900 programs to memory

SAVING PROGRAM;

1. First enter Program Number and Name.
2. Push SAVE 2 secs for save it.

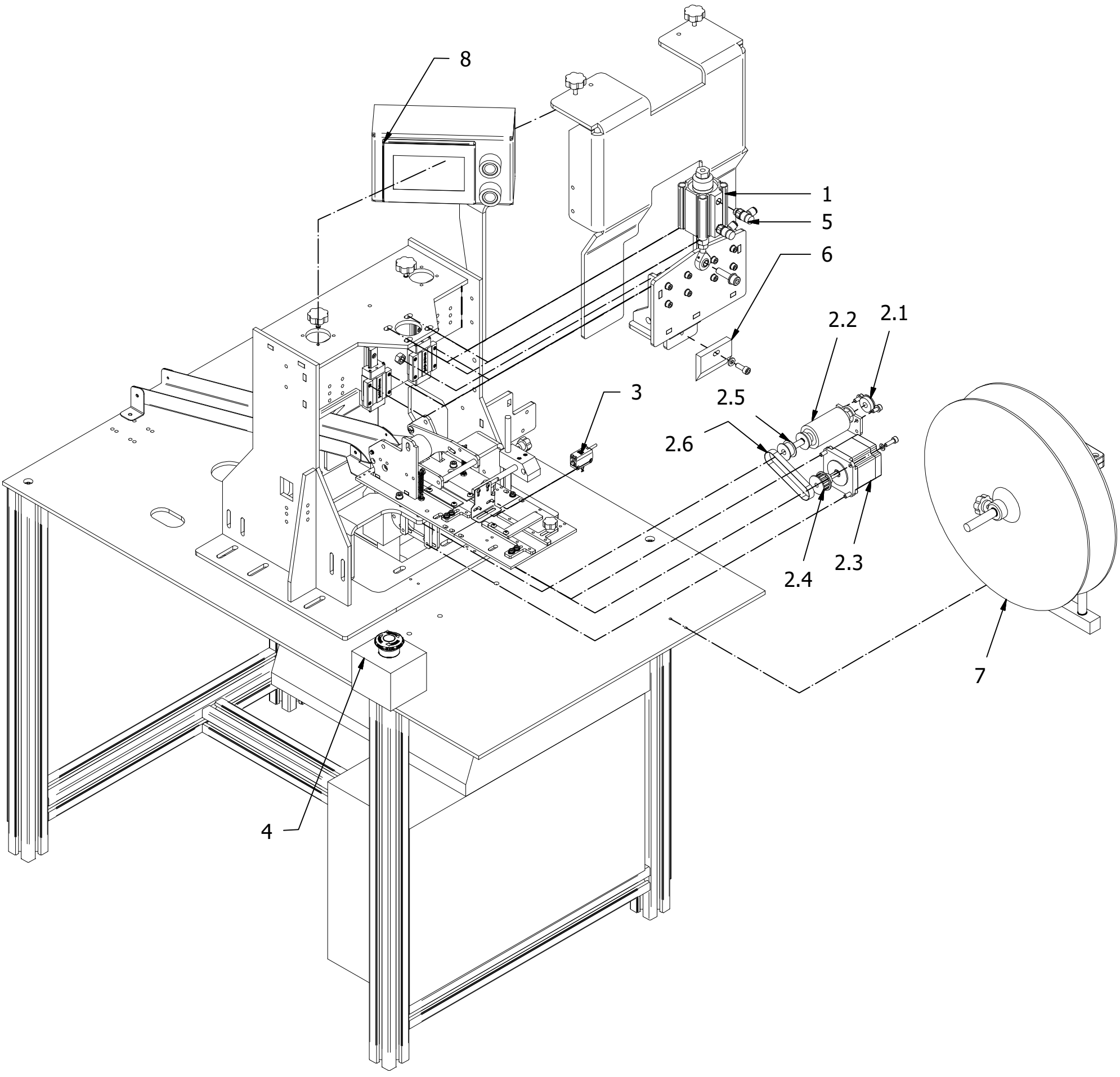
LOADING PROGRAM;

1. First enter Program NO.
2. Than push LOAD 2 secs.

Please dont save empty programs than you should adjust that.

ELITE A.G

PART LIST


8
1
5
6
2.2
2.1
3
2.5
2.6
2.4
2.3
7
4

ITEM	QTY	DESCRIPTION	PART NUMBER
1	1	CDQ2WB40TF-20 Compact Cylinder	CDQ2WB40TF-20
2.1	4	Bearings	KS110_UC_037
2.2	1	Bottom Roller	KS110_UC_038
2.3	1	Stepper Motor	KS110_UC_026
2.4	1	Pulley	KS110_UC_048
2.5	1	Pulley	KS110_UC_049
2.6	1	Belt	KS110_UC_050
3	1	Sensor	KS100-A_066
4	1	Emergency Button	KS110_UC_065
5	2	Speed Controller With One Touch Fitting/Elbow Type	KS110_UC_069
6	1	Knife	KS110_UC_071
7	2	Feeding Unit	KS110_UC_072
8	1	HMI	KS110_UC_078

MAKINE SAN.TIC.LTD.STI

YENIGUN MAHALLESI BAGCILAR CADDESI
615 SK. NO 14/A
BAGCILAR/ISTANBUL/TURKEY