



Case Study

A Solutions-Focused Approach.
Resolving harsh environment challenges.

The benefits of a proactive, consultative partnership with KOR Engineering– *How EAO's design expertise helps provide a competitive edge.*

KOR Engineering was originally solving problems piece-by-piece – *We consolidated this process by providing a complete HMI solution.*

“Our proactive, consultative-engineering partnership helped KOR modernise their machinery and maintain a competitive edge.”

Company Profile

Customer
KOR Engineering, Inc.

Market
Labelling and Packaging

Application
Inspection Slitter Rewinders

EAO Series
Series 04
Series 84 E-Stop switch
HMI System



Harsh environments require sealed, rugged, and reliable components.

Business Challenge

KOR Engineering, Inc., a full-service supplier of high-performance Inspection Slitter Rewinders for the label printing industry, approached EAO seeking a control panel for its new line of products. They wanted to modernize the appearance of individual controls located in several operational areas within their equipment.

After further input about the design engineering specifics, EAO implemented a clear and simple direction for the planning of KOR Engineering's end-product: a HMI that is to use, modern and robust.

KOR Engineering's units are machines used within the label printing industry. The equipment often finds itself in aggressive environments that consist of exposure to harsh chemicals, oils and cleaning agents. This presented an opportunity for EAO's design and engineering team to provide a solution that incorporated a Human Machine Interface System (HMIS) able to withstand the specific environments KOR Engineering's machines were exposed to, versus a basic component order.

This scenario presented an opportunity for us to fulfill our mission as a solutions-focused partner. After providing our expert engineering input, KOR asked EAO to develop a complete HMI system capable of withstanding the harsh environments their machines are exposed to.

Solution

EAO developed a critical solution that took into consideration the challenges facing KOR's new product line. We navigated the company through the entire process from concept to production.

Understanding KOR's desire for a clean, sophisticated look, we decided to forego a standard engraving, printing or silk-screening marking process in favor of a "photosensitive, anodized aluminum" finish. This procedure uses an etchant acid to create high-quality images, graphics and/or text on metal plates capable of withstanding severe abuse.

Furthermore, we worked closely with KOR to determine which HMI components would be best suited for their harsh operational environment. After careful deliberation, it was determined that our Series 04 products were ideal for their machines as they meet the IP65 ingress protection standards.

To ensure their new equipment met strict ISO standards, each panel was also fitted with a certified Series 84 Emergency Stop.

Environment is one of the most important factors to consider when designing HMI – EAO products provide durability while maintaining contemporary aesthetics.

Contact

EAO AG
Tannwaldstrasse 88
4600 Olten, Switzerland
Tel. +41 62 286 91 11
info@eao.com

More information
www.eao.com/downloads



If an HMI System fails, it is often seen as a failure of the equipment itself.

Our proactive, consultative-engineering partnership helped KOR modernise their machinery and maintain a competitive edge.

Results

EAO added significant value for KOR by:

- Modernising their machinery through a proactive consultative engineering process
- Increasing productivity and reducing costs by consolidating their system and production procedure – which previously involved numerous different vendors
- Providing them an advantage over their competition by delivering to market faster than expected

EAO won this project through our

- Solutions-focused proposal backed by an HMI expert reputation
- Excellent support from HMI concept to production
- Ability to provide high-quality materials that satisfied their unique environmental and aesthetic requirements
- Modern, sustainable approach toward HMI design

For an optimal HMI, it's critical to work with an Expert Partner who analyses and considers all relevant factors during the development of HMI Components and Systems – related to the customer, the user and technical and commercial considerations.

HMI's are critical elements to the interaction between humans and machines and can directly impact the operability of equipment in a range of markets including Machinery, Transportation, Automotive and Heavy Duty & Special Vehicles, as well as many others. EAO is here to make this interaction innovative, intuitive and reliable.

Furthermore, EAO's Components and Systems undergo rigorous testing to assure required reliability, repeatability, and long service life. EAO is ISO 9001, ISO 14001, IRIS, and ISO/TS 16949 certified for automotive and other industry requirements.

EAO Contact.

Your centre of excellence.

Headquarters

EAO Holding AG
Tannwaldstrasse 88
CH-4600 Olten
Telephone +41 62 286 92 00
info@eao.com

Manufacturing Companies

Switzerland
EAO AG
Tannwaldstrasse 88
CH-4600 Olten
Telephone +41 62 286 91 11
info@eao.com

EAO Systems AG
Tannwaldstrasse 88
CH-4600 Olten
Telephone +41 62 286 91 11
sales.esy@eao.com

China
EAO (Guangzhou) Ltd.
3/F, Block G4, South China
New Materials Innovation Park
31 Kefeng Road
Guangzhou Science City
CN-Guangzhou, PRC
Telephone +86 20 3229 0390
sales.ecn@eao.com

Germany
EAO Automotive GmbH & Co. KG
Richard-Wagner-Straße 3
DE-08209 Auerbach/Vogtland
Telephone +49 3744 8264 0
sales.esa@eao.com

North America
EAO Corporation
One Parrott Drive
Shelton
US-CT 06484
Telephone +1 203 951 4600
sales.eus@eao.com

Sales Companies

China
EAO (Guangzhou) Ltd.
3/F, Block G4, South China
New Materials Innovation Park
31 Kefeng Road
Guangzhou Science City
CN-Guangzhou, PRC
Telephone +86 20 3229 0390
sales.ecn@eao.com

EAO (Shanghai) Office
Rm.401, Lihpao Plaze,
NO.159 Shenwu Road,
Minhang District,
CN-Shanghai, 201106.
PRC
Telephone +86 21 6095 0717
sales.ecn@eao.com

France
EAO France SAS
27 rue Maurice Flandin
FR-69003 Lyon
Telephone +33 426 298 588
sales.efr@eao.com

**Germany, Austria, Czech Republic,
Poland, Slovakia**
EAO GmbH
Langenberger Straße 570
DE-45277 Essen
Telephone +49 201 8587 0
sales.ede@eao.com

Hong Kong (Asia Pacific)
EAO (Far East) Ltd.
Unit A1, 1/F, Block A
Tin On Industrial Building
777 Cheung Sha Wan Road
Lai Chi Kok, Kln
HK-Hong Kong
Telephone +852 27 86 91 41
sales.ehk@eao.com

Italy
EAO Italia S.r.l.
Centro Direzionale Summit –
Palazzo C1
Via Brescia 26
IT-20063 Cernusco sul Naviglio (MI)
Telephone +39 029 247 0722
sales.eit@eao.com

Japan
EAO Japan Co. Ltd.
Net 1 Mita Bldg. 3F
3-1-4 Mita Minato-ku
JP-Tokyo 108-0073
Telephone +81 3 5444 5411
sales.ejp@eao.com

Netherlands, Belgium
EAO Benelux B.V.
Kamerlingh Onnesweg 46
NL-3316 GL Dordrecht
Telephone +31 78 653 17 00
sales.enl@eao.com

North America
EAO Corporation
One Parrott Drive
Shelton
US-CT 06484
Telephone +1 203 951 4600
sales.eus@eao.com

Switzerland
EAO Schweiz AG
Tannwaldstrasse 86
CH-4600 Olten
Telephone +41 62 286 95 00
sales.ech@eao.com

**United Kingdom, Denmark,
Finland, Ireland, Norway, Sweden**
EAO Ltd.
Highland House
Albert Drive
Burgess Hill
GB-West Sussex RH15 9TN
Telephone +44 1444 236 000
sales.euk@eao.com