ABB Jokab Safety

Americas Quick-Guard Launch

ABB

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Traditional fencing systems

Aluminum kit based systems

- Typically a kit with a drawing that tells you how to assemble the fencing – Made to order
- Difficult to modify because of the need to machine the ends of the extrusion.
- Time consuming – Design (CAD), ordering , delivery, installation, and modification
- Higher cost than steel fencing

Steel modular fencing systems

- Modular system that you purchase in predetermined widths that still need to be designed using (CAD)
- Very difficult to modify, requires saws, welders (hot work permit), painting
- Lots of part numbers

Americas Quick Guard

- We've made the difficult easy
- Combines the modularity of steel with the advantages of Jokab's traditional Quick Guard product
- Only 14 part numbers to design with, and stock
- Can be designed on a Napkin, no CAD required
- Stocked by Jokab Distributors, RFQ to Delivery 1 day

Recent photo of Maryrose Sylvester, US Country Managing Director & Bjorn Rosengren, ABB CEO in front of an ABB Robotic cell guarded by fencing

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What is AQG

Easy to stock, design, order, and install fencing system

- AQG has been developed to be an easy to order and stock fencing system with the distributor and end user in mind
- With 14 part numbers we can easily design a fencing system on a piece of paper
- A distributor can easily stock 1500mm panel, posts, door sections, and hardware kits
- AQG components are stocked and shipped in individual cartons
- Quickly respond to their customers fencing needs with a minimal amount of stock
- Easily replace damaged sections with common panels
- RFQ to Delivery, One Day with a stocking distributor
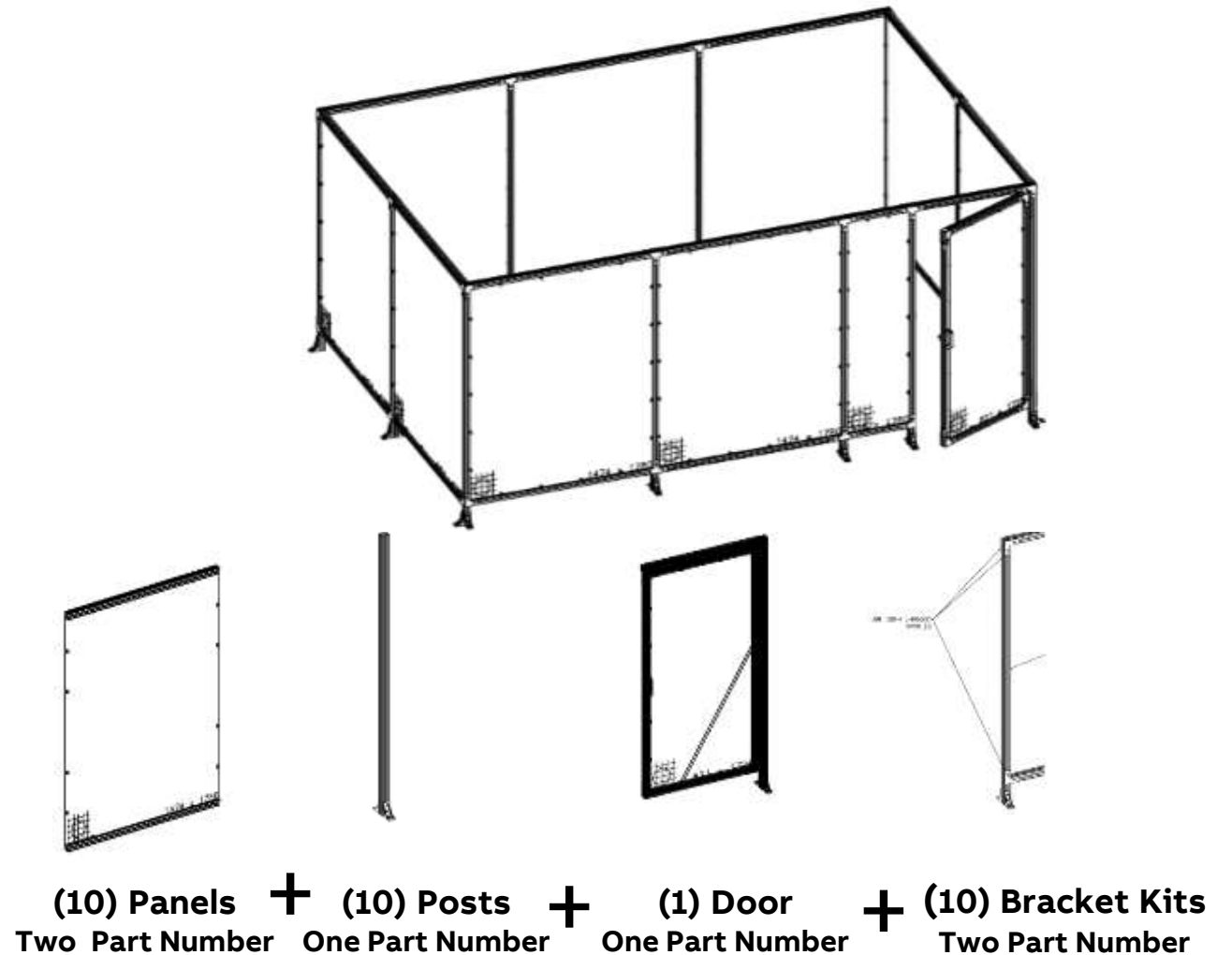
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Start ➡️ To ➡️ Finish

25 Minutes for this AQG E example or 5 minutes per 1500mm Section

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What is AQG

Easy to <u>stock</u> fencing system

- Stocking is easy with AQG
- There are a total of four panels, two for AQG E and two for S. All panels come with hardware to mount to posts.
- Two posts, a 44x44 and a 44x88, both two meters in height, and they come with the floor brackets
- There is only one door that is shared by both systems. The door comes assembled with a vertical post, magnetic latch, handle and a header profile. Ready to be installed.
- Bracket kits cover all the end, middle and corner door and post conditions
- All the components are individually packaged.
- With 14 part numbers we can easily design a fencing system on a piece of paper, and have it to the customer the next day


(10) Panels + **(10) Posts** + **(1) Door** + **(10) Bracket Kits**

Two Part Number   **One Part Number**   **One Part Number**   **Two Part Number**

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What is AQG E

Americas Quick-Guard E

- Most economical & flexible AQG style
- AQG panels are based on a 1500mm center to center dimension. If overall section is too long, it can easily be shorted by using standard hand tools.
- The "E" Style utilizes the H-Channel (upper beam) and U-Channel (lower beam) extrusions for the horizontal beams.
- Using the supplied sweep guide you can easily secure the JSM 37 support screw to the proper height, providing a uniform installation height for the mesh panels.
- Trimming the wire mesh panel to length with bolt cutters makes exact sizes easy


2000 mm

JSM 37 Support Clip

1500 mm center to center

1544 mm outside to outside

152 mm

H - Channel

U - Channel
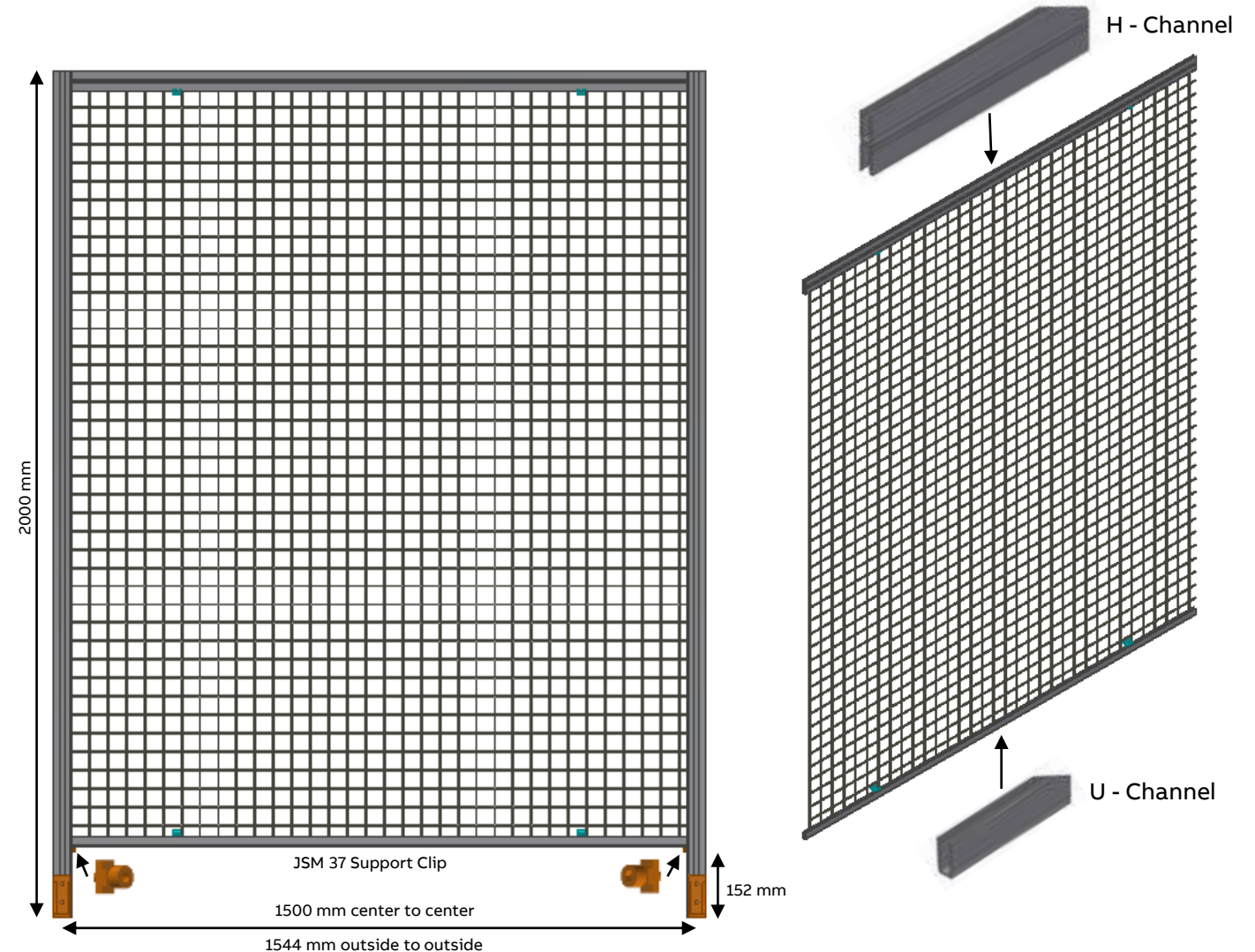
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What is AQG S

Americas Quick-Guard S

- AQG S is used when more rigidity is required
- AQG panels are based on a 1500mm center to center dimension. If overall section is too long, it can easily be shorted by using standard hand tools.
- The "S" Style utilizes the same 44mm x 44 mm extrusion as the post for it's upper and lower horizontal beams.
- Using the supplied sweep guide you can easily hold your fence panel in position while you install the bracket kits, providing a uniform installation height for the mesh panels.
- Trimming the wire mesh panel to length with bolt cutters makes exact sizes easy. Horizontal headers can be cut with a cutoff saw.

2000 mm

1500 mm center to center

1544 mm outside to outside

152 mm

44mm x 44mm

44mm x 44mm
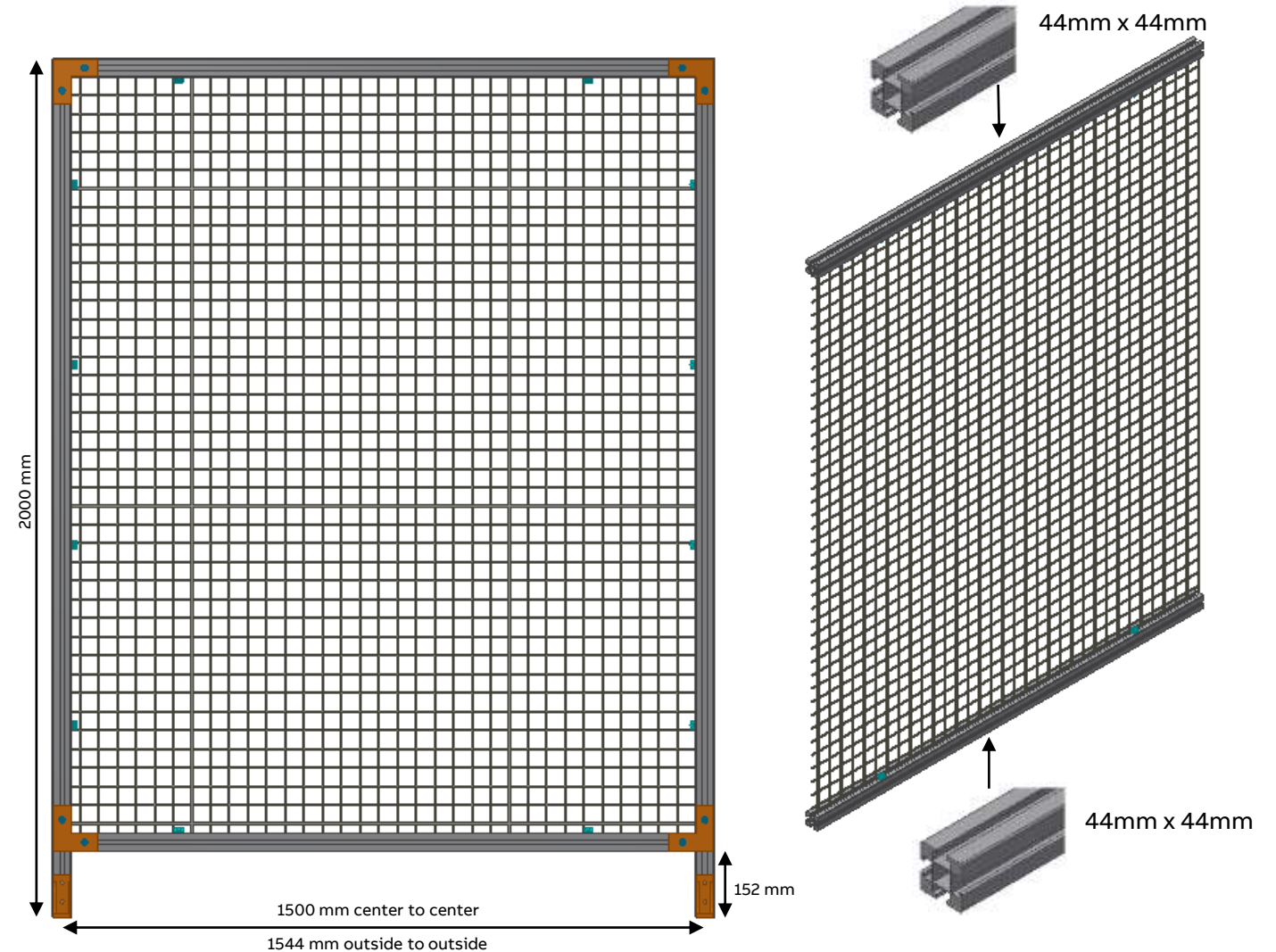
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14 part numbers

Easy to <u>order</u> fencing system
- Currently AQG (S&E) has 14 part numbers including the bracket kits
- With 14 part numbers a fencing system can be designed on a piece of paper

Easy to <u>stock</u> fencing system
- Four mesh panels
- Two vertical posts
- One mesh door
- Seven bracket kits

Easy to <u>install</u> fencing system
- Easy to assemble
- About 5 minutes per 1500mm section

If a <u>custom</u> design is needed
- We do that also, just contact you distributor
- We will need all the details to design a custom fencing solution

Americas Quick Guard, E & S

Call Out	Qty	S Panels	Order code
A		S Mesh Panel	2TLA140040R1000
B		S Mesh Small Panel	2TLA140040R1100
		E Panels	
C		E Mesh Panel	2TLA140040R3000
D		E Mesh Small Panel	2TLA140040R3100
		Posts E&S	
E		44mm X 44mm - 2M Tall Post With (2) Floor Brackets	2TLA140037R1000
F		44mm X 88mm - 2M Tall Heavy Duty Post With (2) Floor Brackets	2TLA140037R1100
		Doors E&S, (Includes Hinge Side 44X44 Post & Hinges)	
G		Mesh Door, 36" Opening, 2M Height, (2) Hinges, Magnetic Door Latch, Handle	2TLA140037R3000
		BRACKET KITS, S except for E door kit	
H		Bracket Kit for End Post, (3) L Brackets	2TLA140034R1000
I		Bracket Kit for Middle Post, (3) T Brackets	2TLA140034R1100
J		Bracket Kit for Corner Post, (4) L Brackets and (1) Angle Bracket	2TLA140034R1200
K		Bracket Kit for All Express Doors, (4) L Brackets	2TLA140034R1400
L		Bracket Kit for Standard End Door, (3) L Brackets and (2) T Brackets	2TLA140034R1500
M		Bracket Kit for Standard Middle Door, (4) L Brackets and (3) T Brackets	2TLA140034R1600
N		Bracket Kit for Standard Corner Door, (4) L & (2) T Brackets and (1) Angle Brackets	2TLA140034R1700

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Easy to design example

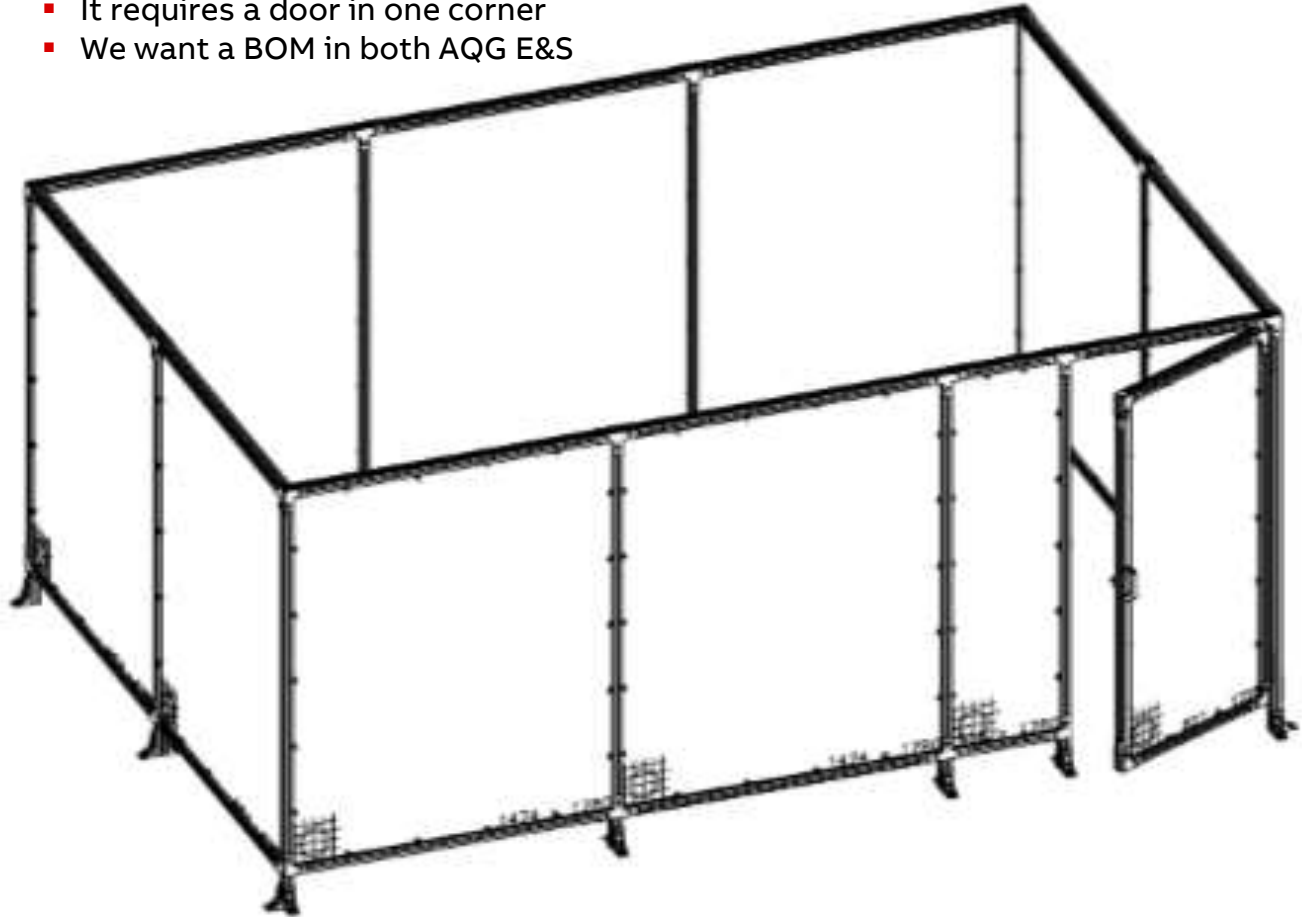### The design process, AQG E&S
- Convert your dimensions to millimeters
- Figure out how many 1500mm panels are on a side, if one is a partial* consider it a full panel. Do this for all sides.
- Locate your doors and replace that 1500mm panel with a door and filler panel.

Lets fill out the BOM
- Count your panels including partials and record
- Count the posts between panels, note that the door comes with a post and should not be counted
- Count your doors and filler panels
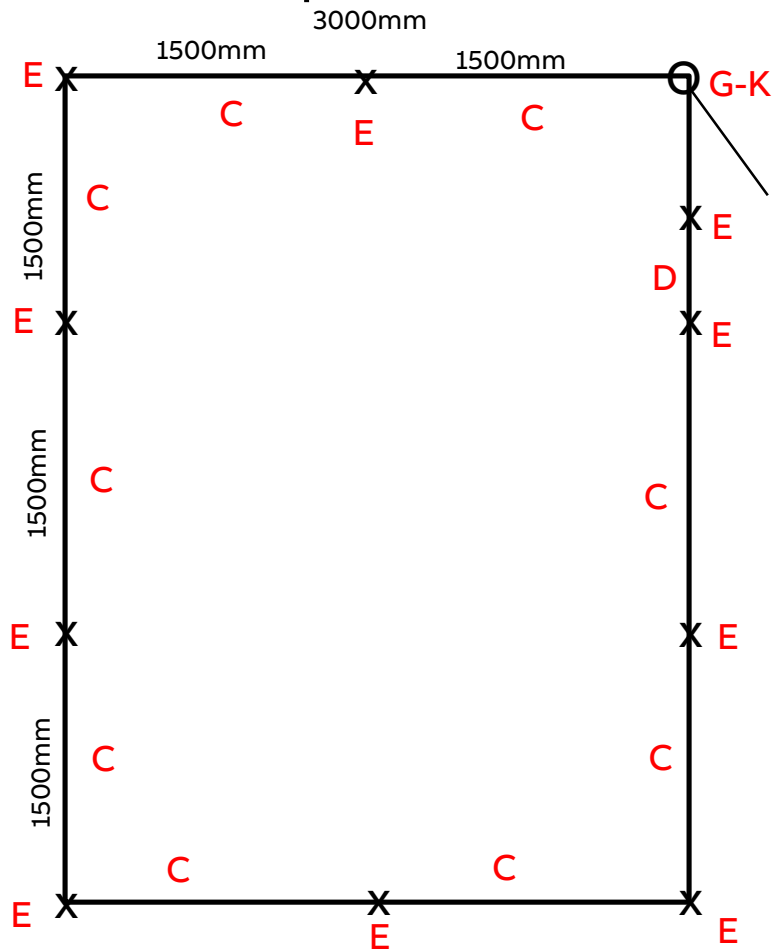
For AQG S add these additional steps
- Count the corner post kits you need and record
- Count the end and middle post kits you need and record
- Note, posts next to the open side of a door are usually considered middle posts
- *Partial panels can be trimmed to size with bolt cutters, headers can be trimmed with a cut off saw

Let look at an example
- Let's use the example from the first slide
- The example is 3000mm x 4500mm
- It requires a door in one corner
- We want a BOM in both AQG E&S

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Here's the example with AQG E

Bill of Material

Call Out	Qty	E Panels	Order code
C	9	E Mesh Panel	2TLA140040R3000
D	1	E Mesh Small Panel	2TLA140040R3100
		Posts E&S	
E	10	44mm X 44mm - 2M Tall Post With (2) Floor Brackets	2TLA140037R1000
		Doors E&S, (Includes Hinge Side 44X44 Post & Hinges)	
G	1	Mesh Door, 36" Opening, 2M Height, (2) Hinges, Magnetic Door Latch, Handle	2TLA140037R3000
		BRACKET KITS, S except for E door kit	
K	1	Bracket Kit for All E Doors, (4) L Brackets	2TLA140034R1400

Extra lines removes for clarity

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Here's the example with AQG S

Bill of Material

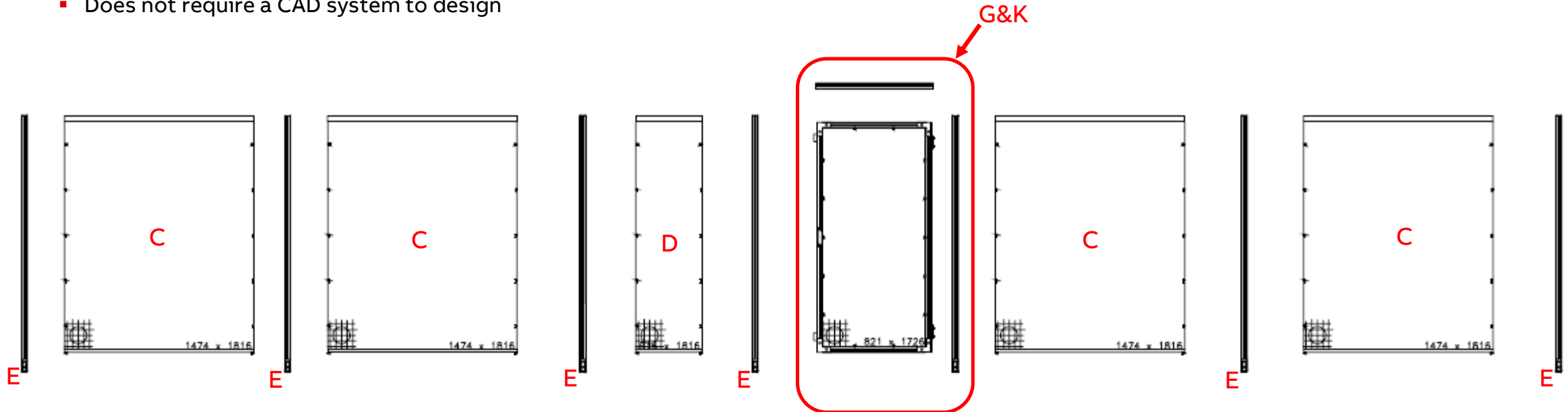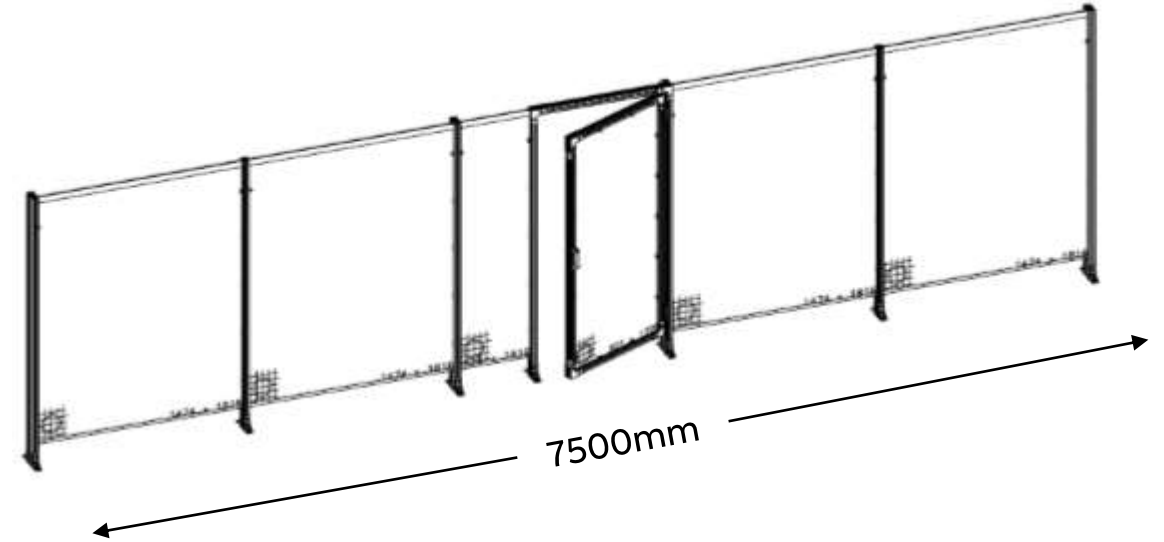| Call Out	Qty	S Panels	Order code
A	9	S Mesh Panel	2TLA140040R1000
B	1	S Mesh Small Panel	2TLA140040R1100
		Posts E&S	
E	10	44mm X 44mm - 2M Tall Post With (2) Floor Brackets	2TLA140037R1000
		Doors E&S, (Includes Hinge Side 44X44 Post & Hinges)	
G	1	Mesh Door, 36" Opening, 2M Height, (2) Hinges, Magnetic Door Latch, Handle	2TLA140037R3000
		BRACKET KITS, S except for E door kit	
I	6	Bracket Kit for Middle Post, (3) T Brackets	2TLA140034R1100
J	3	Bracket Kit for Corner Post, (4) L Brackets and (1) Angle Bracket	2TLA140034R1200
N	1	Bracket Kit for Standard Corner Door, (4) L & (2) T Brackets and (1) Angle Brackets	2TLA140034R1700

Extra lines removes for clarity

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Another design with AQG E

Easy to **design** fencing system
- The example above uses AQG E
- Based on a 1500mm panel center to center spacing
- The AQG Fencing system above was designed with just 5 part numbers
- Can be designed using Americas Quick Guard E or S panel sections
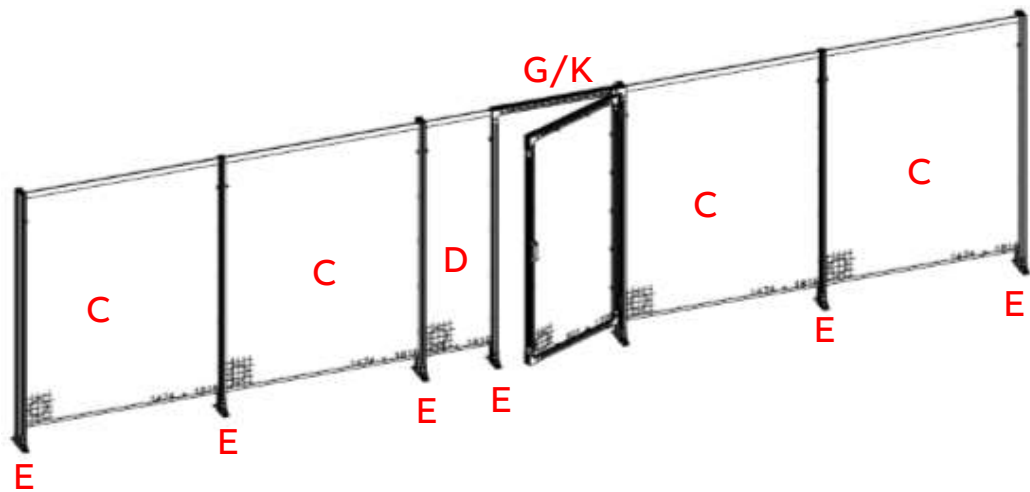- Does not require a CAD system to design

7500mm

G&K

C   C   D   C   C

E   E   E   E   E   E

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How to <u>design</u> with AQG E

AQG uses only 5 part numbers for this example

Bill of Material

Call Out	Qty	E Panels	Order code
C	4	E Mesh Panel	2TLA140040R3000
D		E Mesh Small Panel	2TLA140040R3100
		Posts E&S	
E	6	44mm X 44mm - 2M Tall Post With (2) Floor Brackets	2TLA140037R1000
		Doors E&S, (Includes Hinge Side 44X44 Post & Hinges)	
G	1	Mesh Door, 36" Opening, 2M Height, (2) Hinges, Magnetic Door Latch, Handle	2TLA140037R3000
		BRACKET KITS, S except for E door kit	
K	1	Bracket Kit for All E Doors, (4) L Brackets	2TLA140034R1400

Extra lines removes for clarity

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What is AQG

Easily add mounting plates and devices to doors and openings

Mounting plates are available for
- Eden Safety Sensors
- Smile Estops (no mounting plate necessary)
- Many Mkey mechanical safety switches
- Mkey 8-9 solenoid safety switches
- Sense 7 magnetic safety switches
- Magne Magnetic door locking safety switches
- Orion Safety Light Curtains (no mounting plate necessary)
- Gkey Gate Box with integral solenoid safety Switch
- Many other Jokab devices are already designed to fit on AQG

Every safety sensor needs ABB Jokab Safety controls
- Sentry safety relays
- Pluto Safety PLCs
- Jokab Safety controls need ABB complementary products such as
- AFS Contactors for safety applications
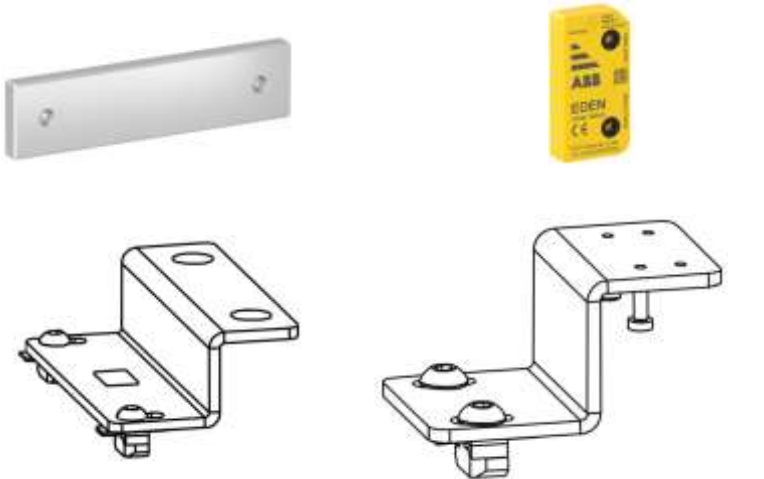- ABB Stack lights
- ABB Pilot devices

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Mounting plates

Magne mounting plates
Mounts on door

2TLA042023R0500
JSMD21B – for
anchor plate for
Magne 3 & 4

2TLA042023R0300
JSMD24 – for
Eva General/Unique
with Magne 4

Magne 3 & 4 mounts on door frame

2TLA040033R3600
JSMD4H – For Eden (2
required per Eden
Sensor)
Eden OSSD/DynLink

2TLA040033R3600
JSM D29A - Mkey
4/5 for Conventional
Door

2TLA040033R3300
JSMD29C – for Mkey
8/9 for Conventional
Door

2TLA040033R6200
JSMD4G – for Sense 7
for Conventional Door

Mounting Plates

Qty	Mounting Plate	Order code
	JSMD4H – For Eden (2 required per Eden Sensor)	2TLA040033R3600
	JSM D29A - Mkey 4/5 for Conventional Door	2TLA040033R6000
	JSM D4G – Sense 7 for conventional door	2TLA040033R3300
	JSMD29C – for Mkey 8/9 for Conventional Door	2TLA040033R6200
	JSMD21B – for anchor plate for Magne 3 & 4	2TLA042023R0500
	JSMD24 – for Eva with Magne 4	2TLA042023R0300

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Installing and modifying AQG S/E

Easy to <u>install</u> fencing system
- AQG saves time and money
- It takes about 5 minutes per 1500mm section to assemble
- The netlocks use a T25 Torx head screw driver to install
- The screws with the T nuts use 5/6/8 mm hex keys

Easy to <u>modify</u> fencing system
- If you need to make a panel shorter, for example 1350mm center to center
- 1500mm panel minus 1350mm equals 150mm
- Shorten your panel and if AQG S, the header by 150mm
- Simply use bolt cutters to cut wire mesh for the 1350mm custom width
- If you are using AQG S you will need to shorten the aluminum profile headers by the same amount (150mm) with a cutoff saw

Quick Guard

Custom Aluminum Fencing Systems

Quick-Guard

- Quick Guard is a traditional kit based fencing solution
- Using 44x44 and 44x88 aluminum we can create complex fencing systems.
- We can also enhance your AQG S/E systems with sliding doors and other features

- Send your fencing requests with as much detail as possible to your ABB Jokab distributor

Quick Guard fencing can go around your machines to protect both the employee and the machine

For assistance contact your local ABB/JOKAB SAFETY representative

ABB Jokab Safety

Typical safety system

ABB Jokab Safety
- Breadth of product
- Unique solutions
- DynLink
- Dual Channel
- AQG
- Safety Services

Every powered machine requires safety

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eStops

Safety Switches

Light Curtains

Safety Mats, Bumpers, and Edges

Pluto Safety PLC, Vital, or Sentry Safety Relay

AFS Contactor

Machine Runs

Pluto Manager
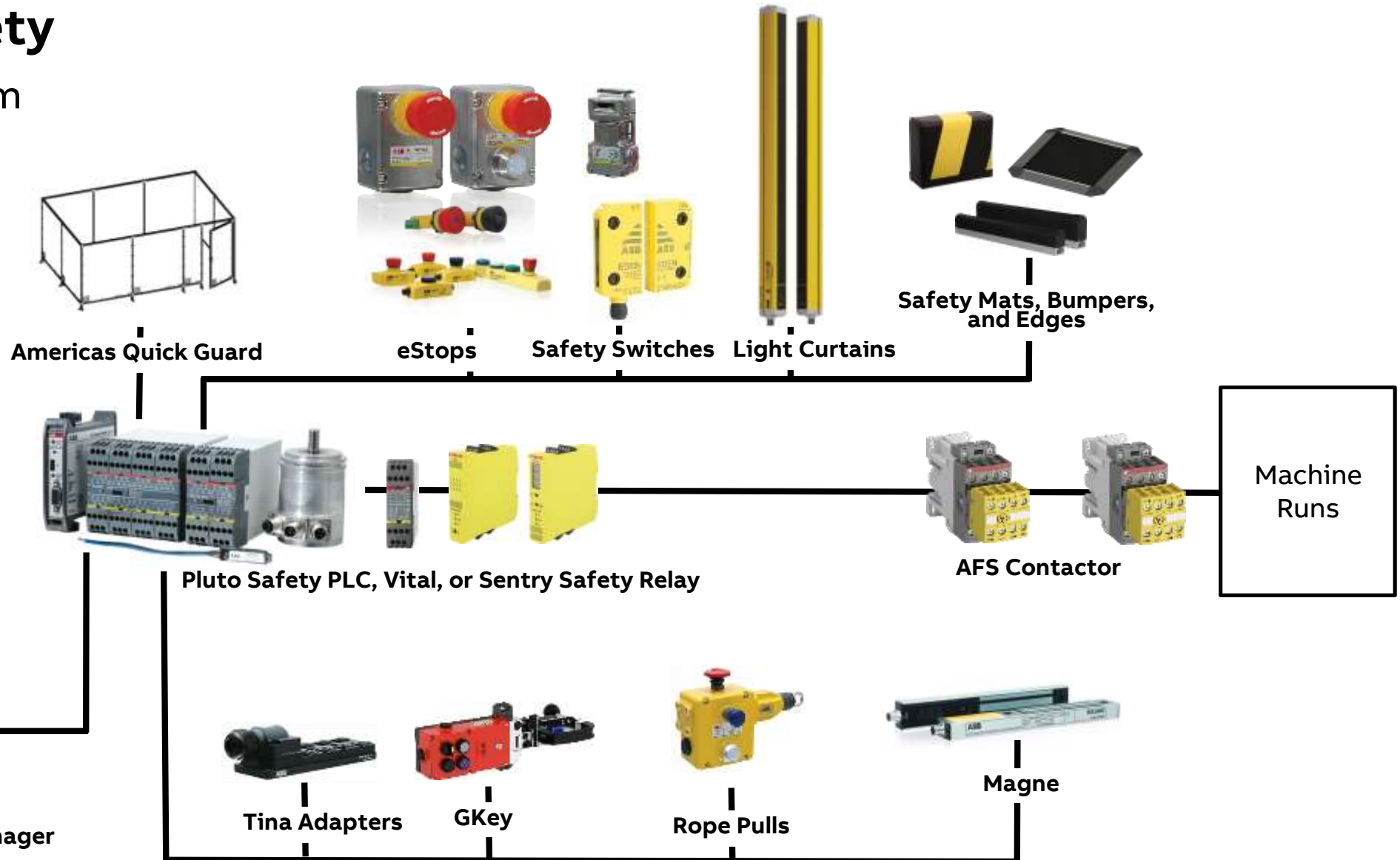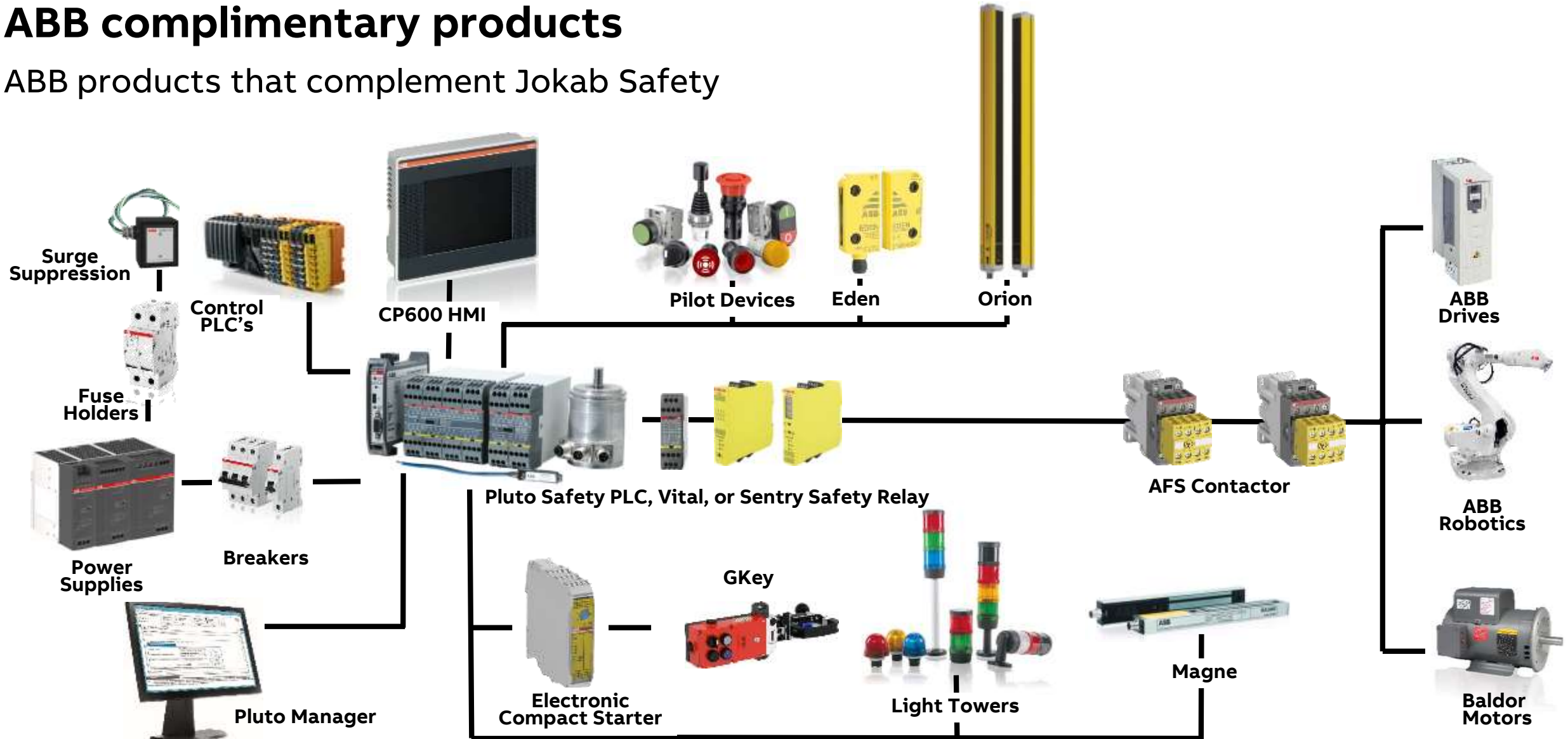
Tina Adapters

GKey

Rope Pulls

Magne

ABB complimentary products

ABB products that complement Jokab Safety

Surge Suppression

Control PLC's

CP600 HMI

Pilot Devices

Eden

Orion

ABB Drives

Fuse Holders

Pluto Safety PLC, Vital, or Sentry Safety Relay

AFS Contactor

ABB Robotics

Power Supplies

Breakers

Pluto Manager

Electronic Compact Starter

GKey

Light Towers

Magne

Baldor Motors