

Here at LC Automation, we are committed to keeping you up to date.

Whether that is innovative new products, new supplier announcements or industry developments, we will bring you the news that counts. In this issue, we include;

We Can Help You to Save Energy

As energy costs continue to rise, our customers are more interested in saving energy than ever before. In fact, many are re-visiting previous projects that were shelved due to long payback times, but now have a more attractive ROI. Find out more on page 6.

We Announce Two Great New Suppliers

We recently launched two new suppliers; AuCom soft starters (page 7) and Apex Dynamics gearboxes (page 8).

Both companies heard about our focus on training and expert customer support, and approached LC Automation to be a key distribution partner for the UK.

Pull Out and Keep Supplier Listing

Do you know how many leading suppliers we represent? It can be hard to keep up, so we have added a handy supplier listing to the centre pages to make sure you don't miss out.

Pull it out and stick it on your wall, so you can get in touch next time you have a requirement for any of our world leading products!

update

Latest Developments from LC Automation Ltd

Think you know all about Red Lion Panel Meters?



The revolutionary Red Lion PM-50 Panel Meter Range is now available

Monitor your equipment and see your data like never before with Red Lion's Graphical Panel Meter, the brand new PM-50.

This next-generation graphical panel meter connects you to the information that matters most, where you need it most. Unplug your old meter, insert the PM-50, connect it to Wi-Fi and start harvesting your data. Creating a smart plant floor has never been easier.

Smart Device Connectivity

Smart-device connectivity frees critical data from the confines of the plant floor, so you can remotely gather the process insights that will increase production. Instant notifications reduce downtime by keeping you on top of equipment needs. On the panel, a touchscreen interface loaded with user-friendly

...think again!

Red Lion PM50 Features Include;

- Full Colour Touchscreen
- Analogue and Digital Models
- 1/16 or 1/8 DIN Panel Cut-out
- Smart Device Connectivity
- Wi-Fi and Modbus communication
- Universal inputs
- Dual solid state outputs



Scan Here to see how easy it is to Retrofit the new Red Lion PM50

graphics allows you to view more data with less effort. With the revolutionary Red Lion PM-50, the simplicity of a panel meter meets the power of your connected future.

Call Blackburn On
 01254 685900

Call Chippenham On
 01249 460099



LC Automation
control & safety

www.lcautomation.com

Why Have Plastic, When You Can Have Steel?

Designed & Built in the **UK**



Did you know that every time you buy a plastic safety switch from a leading brand, you are probably missing out?

That's a bold statement. Surely there is a reason why leading brands are the leading brands? Well that may have been true in the past, but now there is a better alternative... and it comes in stainless steel!

Buy From the UK's Largest Supplier

IDEM is the UK's largest manufacturer of Stainless Steel Safety Switches, producing the highest quality and most reliable switches we have ever seen - but at a similar price to your leading brand plastic switches.

You get a stronger, more reliable and longer lasting safety switch that can be used in more applications, without increasing the price you pay.

Give LC Automation a chance to compare your usual plastic switch with an IDEM Stainless Steel alternative. You will love the quality and be amazed by our prices. Call us today on 01254 685900.

Why Do Our Customers Buy IDEM Stainless Steel Switches?

- ✓ Steel is a stronger and has a longer lifespan than plastic
- ✓ Tolerant to more extreme high and low temperatures
- ✓ Suitable for high pressure hosing with chemicals
- ✓ Can be used outdoors and they do not rust
- ✓ Lower cost and better quality than leading competitors
- ✓ Shorter lead times - usually delivered in days, not weeks!

TOSIBOX®

Transform
Their Remote
Connectivity
Range →

Tosibox 175 - Cost-effective Plug and Go™ Connectivity Device

- All-in-one solution
- Compact
- Integrated WiFi with built-in global LTE modem
- High VPN throughput
- End-to-end encryption



Tosibox 610 - for Applications Without Wireless Networking

- Four Gigabit Ethernet ports (up to 1000 Mbps)
- Aluminium shell
- IP30 protection
- Operating temp -40°C to +75°C
- End-to-end encryption



Call LC Automation Blackburn on 01254

IAI Servo Presses. Incredible Accuracy from 2Kg to Five Tonne Push Force

Electrical IAI RCS3 Servo Presses are becoming a popular choice for precision press-fitting, joining, crimping and fastening applications in many electrical or mechanical engineering companies.

Why is IAI RoboCylinder ideal for your servo press applications?

To start with, a load cell on the thrust rod tip provides force feedback, enabling high-precision position control & force adjustment that is difficult to set using a pneumatic or hydraulic alternative.

With a range of stroke lengths and push forces (from 2Kg to 5 tonnes), the IAI RCS3 is ideal for a range of servo press applications.

IAI
Quality and Innovation

What does the RCS3 provide?

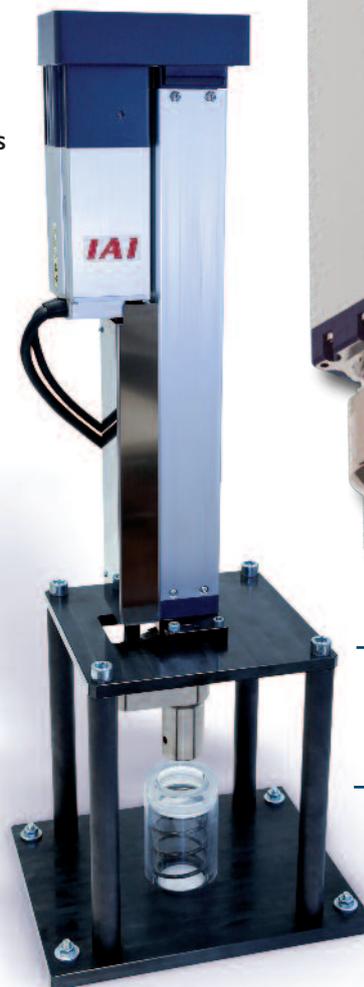
- Repeat accuracy of +/- 0.01mm
- Easy programming in just 4 Steps
- Maximum push force - 5 tonnes
- Maximum speed - 200mm/sec
- A choice of stroke lengths from 100 to 520mm
- 8 models available (see below)

RCS3- RA20R	5,000-50,000N
RA15R	5,000-30,000N
RA13R	2,000-19,600N 1t and 2t types
RA10R	600-6,000N
RA8R	200-2,000N
RA7R	200-1,200N
RA6R	60-600N
RA4R	20-200N



The IAI software also makes it easy to program or adjust your servo press settings, so you can utilise the same press for several different products, efficiently switching from one product to another with minimum disruption.

For more information, or to see how IAI RoboCylinder can make your Servo Press application more efficient, call our Motion Control Experts on 01254 685900.



A Servo Press application using a RoboCylinder RCS3 with Load Cell from IAI

Tosibox 650 - All-round Plug and Go™ Connectivity Device

- Integrated WiFi
- Built-in global LTE modem
- End-to-end encryption
- IP30 protection
- Operating temperature -40°C to +75°C
- Aluminium shell



Tosibox 670 - LTE Plug and Go™ Connectivity Device

- Built-in global LTE modem
- Cellular speeds up to 300Mbps
- Dual-SIM slots
- IP30 protection
- Operating temp -40°C to +75°C
- End-to-end encryption



Tosibox 675 - High-performance Plug & Go™ Connectivity Device

- Massive VPN throughput
- Integrated WiFi
- Built-in LTE modem
- IP30 protection
- Operating temperature -40°C to +75°C
- Aluminium shell



685900 or Chippenham on 01249 460099

Did You Know You Can



IDEM is the UK's Largest Manufacturer of Safety Switches



Data acquisition from factory floor to your management system



Tosibox provide unique, patented Remote Access Solutions



We are a Rittal Partner covering the whole of the UK

For All These Worlds

n Call LC Automation

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BROOK CROMPTON
Keeping Industry Turning

Cablecraft

We are the UK's only distributor of IAI Electrical Actuators



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IAI
Quality and Innovation

Key UK Partner for PLCs, a.c. Inverters, Servos and HMIs in Factory Automation

SUBISHI ELECTRIC

f PEPPERL+FUCHS

S SCHMERSAL

SICK

Sick UK Elite Distributor Partner

S SONTHEIMER



Weidmüller

We are Weidmuller's Automation Partner



Weidmuller Ltd
AUTOMATION PARTNER

l Alliance
ing the
UK



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d Leading Brands?

AuCom Soft Starts Complete Our Motor Control Solution

Electric motors account for roughly two thirds of all industrial energy consumption, so it's clear that choosing the right motors and controlling them efficiently is key to reducing energy consumption.

We have been supplying electric motors and Mitsubishi a.c. Inverters as a variable speed solution for many years.

Alongside that, we can now offer AuCom soft starters for fixed speed motor applications - giving you a complete motor control solution.

AUCom



Mitsubishi Electric is a world-leader in Energy Efficient a.c. Inverters (Variable Speed Drives)

No matter what application you have, we have a great value TEC electric motor that will do the job.

If you are looking to reduce energy usage, protect your electric motors or design a trouble free solution that will continue to work for years, you will probably need to consider a fixed (motor soft starters) or variable (a.c. inverters) motor control solution.

Unbiased Advice

As part of our complete motor control solution, our experts provide unbiased advice on the right products for your application. Fixed or variable speed? Which is best? Which option will be most reliable? Which will cost less?

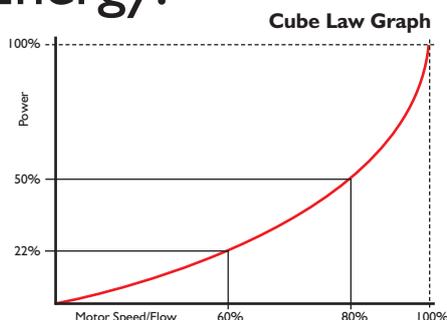
Give us a call on 01254 685900 and we will be happy to answer your questions, or take a look at your application before suggesting the best solution. We have all the support you need to help make the right choice for your business.

Where Can I Save Energy?

a.c. Inverters or Variable Speed Drives save energy when they are used to reduce the speed of a motor by reducing it's power.

If you have processes, pumps or fans that can be run at a slower speed, or where the speed needs to change, an a.c. Inverter could save energy.

But, with centrifugal pumps or fans the savings can be greater. Using cube law, a 20% reduction in the motor speed, reduces it's power by a whopping 50%. If your motor needs to run at full capacity all the time, an a.c. Inverter will



make it more reliable, but won't save you energy. In these 'fixed-speed' applications, the correct Soft Starter will protect your motor and is the most energy efficient option available.



Scan Here to see how Mitsubishi a.c. Inverters can save you money

Call LC Automation Blackburn on 01254

AuCom Soft Starts for your Fixed-Speed Applications

You may not recognise the name, but AuCom are specialists in fixed speed motor control, providing reliable high quality soft starters, with the know-how & support to make sure everything goes right. Although they operate globally, we are proud to say that AuCom CSXi and EMX4 Soft Starters are now available in the UK from LC Automation.



Around 80% of Electric Motors are used in Fixed-Speed applications

Who is AuCom?

AuCom pride themselves on understanding your business so they can create a solution that makes your life easier. Their technical knowledge and range of technologies enable them to deliver straight forward solutions for simple applications and fully advanced products if you have more complex requirements.

Get in Touch

AuCom is a great option if you are looking for a fixed-speed motor solution, Give us a call on 01254 685900 to discuss your application or to request a competitive quote.

Great Value TEC Energy Efficient Electric Motors

Established in 2006, TEC have grown to become one of the largest suppliers of low-voltage electric motors in the UK.



Over the years they have built an enviable reputation for high quality, reliable products and great value prices.

With a massive range of options available, we don't carry stock of TEC Electric Motors. Fortunately, TEC have large stocks available for quick delivery.

Looking for more info or a Quote?

Call 01254 685900 if you would like a competitive quote, some advice, or can't find what you are looking for.

Our sales team or Technical Support Engineers will be happy to help you out.

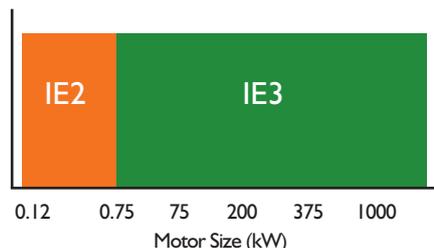


IE1, IE2 or IE3? How do the Latest Motor Regulations affect me?

On 1st July 2021 the old motor regulations were replaced by the Ecodesign Regulation (EU) 2019/1781. Basically, this made IE1 motors obsolete and restricted use of IE2 motors, regardless of whether you use an a.c. Inverter (Variable Speed Drive) or not.

How did the regulations change?

On 1st July 2021 the motor powers between 0.12kw and 0.74kw, were required to reach the IE2 standard.



IE1 Motors (Standard Efficiency)

IE2 Motors (High Efficiency)

IE3 Motors (Premium Efficiency)

The IE3 standard also increased and is now applicable for motors from 0.75kW to 1000kW.

We only recommend IE3...

Because there is very little price difference between IE2 and IE3, LC Automation only recommend IE3 premium efficiency motors, even for smaller applications. The improvement in energy efficiency far outweighs the extra initial cost.

685900 or Chippenham on 01249 460099

Apex Dynamics High-Quality Gearboxes. Delivered in 3-weeks or You Get it FREE!

Supply issues are a fact of life at the moment, so you could expect to be waiting a long time if you order a high-quality gearbox - but not with Apex Dynamics.

They recently opened a second 1,000,000 ft² factory, increasing their production capacity to over 200,000 gearboxes a month!

Seriously? Delivery in 3-weeks... or I Get it For Free?

That's right. Along with fantastic build quality, one of the major benefits of Apex Dynamics (especially at the moment) is unbelievable delivery times. If they don't hit their 2-3 weeks delivery schedule, your gearbox is totally free!

Who is Apex Dynamics?

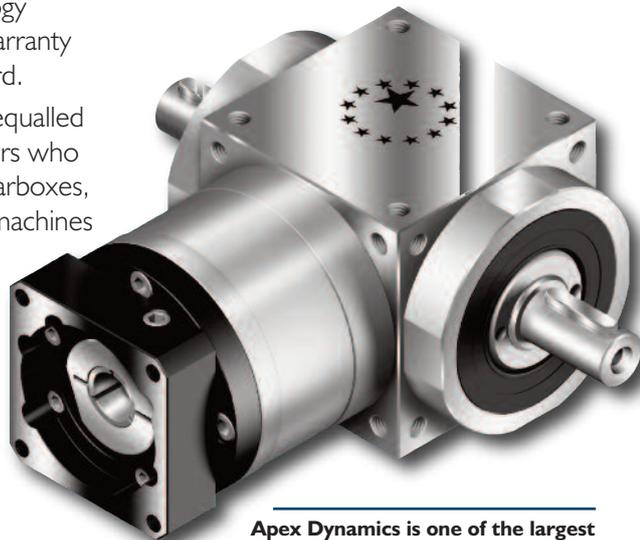
Apex Dynamics is one of the largest manufacturers of Planetary Gearboxes in the world. Patented technology allows them to give a 5-year warranty and ATEX protection as standard.

Apex gearboxes provide an unequalled supply package to give customers who use planetary or spiral bevel gearboxes, confidence that they can build machines with much shorter time scales.

**Put them to the test.
Call 01254 685900 for a competitive quote and see how quickly Apex Dynamics can deliver on their promises.**



APEX DYNAMICS UK



Apex Dynamics is one of the largest manufacturers of Planetary Gearboxes

Do You Want to Start Exporting Your Control Panels to the USA?

If you want to target the lucrative US market with your machines or control panels, you will need to be UL approved... or do you?

Any control panel that's delivered into the USA will be inspected by an Authority Having Jurisdiction (AHJ) for compliance with UL standards. This focuses primarily on UL508A; being the standard for functional design,



Certified Industrial Control Panel Builder
File No. E514251

calculation of ratings, wiring design and creation of the necessary name plate and identifications.

Only a UL certified control panel builder can certify to UL508A compliance and affix the UL marking the AHJ requires.

But UL Approval is a large investment in both time & money (approval generally takes 6 months & costs £10,000). If you're starting to export, that may be a risk you are not willing to take.

We Can Be Your UL Certified Industrial Control Panel Builder

LC Automation is UL 508A certified panel builder and we make it easier to start selling your machinery to the USA straight away.

Adapting Your Existing Design

We can take your existing design and adapt it to meet UL 508A standards. Then we build your control panel, thoroughly test it and supply the all-important documentation, UL serial number and plate indication.

All this ensures the export and installation of your control panel will be as quick and trouble free as possible.



On average, it takes 6 months and costs £10,000 to become UL approved

To target the US market without investing time and money, talk to Marc Wheeler on 01254 685900 or email marc.wheeler@lca.co.uk.

Call Blackburn on 01254 685900 or Chippenham on 01249 460099