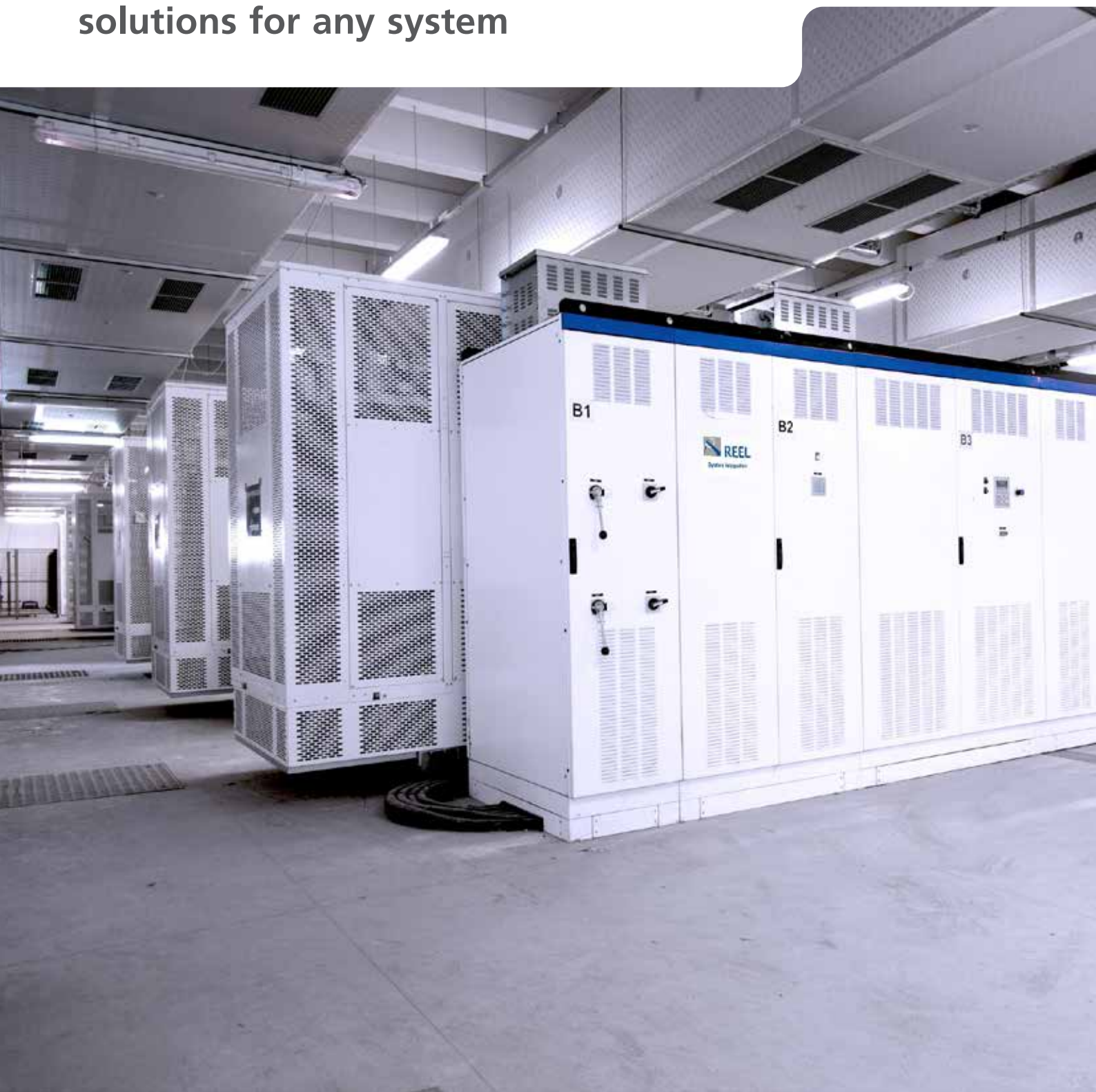


> High Efficiency Drives



A KSB Company • KSB 

Systems Integration – State-of-the-art solutions for any system



REEL are expert **System Integrators**

About us

REEL was founded over 30 years ago with a very precise mission – to provide our customers exclusively with state-of-the-art products and services in the Power Electronics, Electrical Energy Conversion and Industrial Automation fields.

By following our mission, Systems Integration has today become REEL's flagship division, a true Solutions Provider for firms looking to make the most of our technological innovations.

Our product offering

Here at REEL, we create integrated systems using our

- capacity
- experience
- innovation
- passion

Placing your trust in REEL means finding the solution to your needs.





Over the years, here at REEL we have made a name for ourselves with our outstanding technical ability to handle every tiny detail, focusing closely on:

- innovation
- energy saving
- environment
- performance

and, most of all, on customer satisfaction.

Custom solutions

Whatever systems integration needs you might have, the REEL Systems Integration team always puts your ideas at the forefront, working alongside you and providing you with the support you need to get the best possible solution available.

Whether it's developing your germ of an idea or modernizing a consolidated application, REEL is the ideal partner for turning your ideas into technological innovation.



A control panel for wind power generation



We breathe life **into your ideas**

Automatic warehouses



Supervision and remote monitoring



Electrical generation (mini hydro, wind power, etc.)



Slitting lines



Levelling lines



Textiles machinery



50/60 Hz conversion systems



High-efficiency ventilation/pumping systems



Process control in general (metal working and paper factories, wine and food cellars, cement production, etc.)



Test benches (electric and combustion engines, transmission systems)



Industrial sector

Systems Integration without limits

Energy management

Regenerative systems for battery formation



Energy efficiency / power quality systems



With a combined total of over 100 years' experience in various industrial fields, REEL's Systems Integration division has built up considerable knowhow when it comes to creating different types of integrated systems, covering the most diverse and complex needs.

In the industrial and energy management sectors, at REEL we have achieved our aim of providing you with the solution you were looking for in terms of performance, innovation, efficiency and size.

REEL will boldly go that one step further, where others fear to tread.

For you only the best **technology**

What we use for your systems

The components we use in our REEL Systems Integration projects are selected from the most state-of-the-art technology available on the market.

Motors, drive systems/frequency converters, PLCs, HMIs, sensors, networking equipment etc. are selected exclusively from the world's leading manufacturers, with whom REEL has direct partnership agreements.

Our customers can count on a considerable plus, which very few systems integrators can boast: REEL is the leading manufacturer of some main components,

i.e. drives and electric motors, with thousands of applications around the world.

These are top-quality, high-performance products, leaders in the energy efficiency field, which provide our customers with significantly lower running costs or, in the event of energy generation, higher earnings.

REEL's skills at your service

Here at REEL, our Systems Integration technical staff can provide you with automation solutions using commercial PLCs and Inverters that can meet narrower specifications, but will also use REEL products to implement projects focused on maximum reliability and space saving.

Automation in the broadest sense: a non-stop search for answers to questions from customers who need something that is not a market standard

but which at the same time also offers technical and price advantages, without affecting performance in the least.

Why choose REEL?

When you come into contact with the REEL Systems Integration team, you will benefit from all our unparalleled knowhow and skills, safe in the knowledge that our highly-qualified expert staff are coming up with the solution you need.

Here at REEL, we are convinced that our customers deserve only the best.



Power is at home here, controlling it's what we do best

Our company's history and category of products have ensured that REEL's Systems Integration division has always been highly appreciated in the management of electrical power generally considered to be "high" for low-voltage systems.

REEL can handle from 0.15 kW to 2 MW in low voltage, but in a project the 'power' component is often only one part of the system as a whole: the customer needs **turnkey solutions** that will also encompass the software, the sensors, the instrumentation etc. Here at REEL we have always been renowned for our great capacity.

Our firm conviction that a **fully-comprehensive service** and close customer proximity are invaluable ways of creating value for the customer explains why REEL Systems Integration has been chosen as a privileged technology business partner by so many successful companies.



What REEL can offer you:

- Preliminary project consultancy and executive consultancy
- System supply (electrical power panels, control and supervision systems, etc.)
- Commissioning
- Service tasks
- Remote assistance
- Contactability



As well as supplying and installing the best components on the market, REEL is also proud to be a leading supplier of power electronics and synchronous reluctance motors.



High-efficiency synchronous reluctance motors - REEL SuPremE®

The magnet-free synchronous reluctance motor in efficiency class IE4, in accordance with IEC 60034-30 efficiency regulations.

The current range includes powers from 0.55 kW to 450 kW, compliant with IEC standards. The square-frame motor range is available as well, with IP23, IP54 or IP55 protection.

REEL SuPremE® motors are regulated by inverters and help to maximize efficiency in variable-speed applications (compressors, pumps, ventilators, rotating machinery).

REEL SuPremE® provides the best advantages in terms of efficiency especially with partial loads and/or speeds, compared to traditional asynchronous IE3 & IE4 motors controlled by inverters.



High-power density synchronous reluctance motors - SSP®

The magnet-free high-power density version of the synchronous reluctance motor.

The current range includes powers from 0.15 kW to 61 kW.

SSP® motors are regulated by inverters and provide more power than an IE2 induction motor of the same size.

It requires no additional sensors to ensure positioning and speed accuracy.



Speed control systems for wall or cabinet mounting - FlexiMova® cm

Range of high-performance inverters for wall or cabinet mounting, available from 0.37 kW to 1400 kW, with IP20 to IP66 protection and a vast assortment of options. Suitable for controlling asynchronous, synchronous reluctance, and PM synchronous motors.

With a typical efficiency of 98%, it allows a system to maintain extremely high energy efficiency and performance levels.



Remote drive systems for wall or motor mounting - FlexiMova® mm

Range of remote inverters for installing on motors or shiftable to the edge of the machine (from 0.55 kW to 55 kW), making the system more flexible and compact, without affecting the reliability of the system as a whole.

Suitable for controlling asynchronous, synchronous reluctance, and PM synchronous motors.

Our products



Modular drive systems - MDS®

Modular inverters for controlling multi-axle machines, up to 160 kW. The energy recycling function optimizes machine system consumption. The MDS® system's module composition facilitates mounting of the whole system and replacement of single units. The vertical modular structure makes it possible to save space compared to other modular solutions.



Our systems

Some of our control systems



Hydraulic turbine command and control systems

REEL is more than just products

In addition to the company's 30 years of providing customers with applied solutions, REEL's Systems Integration can also count on a total of over 100 years' experience among the technical staff working in this division, which they have built up in a wide range of different industrial settings.

REEL Systems Integration is your partner for designing and implementing turnkey applications which can transform your requirements into reality.



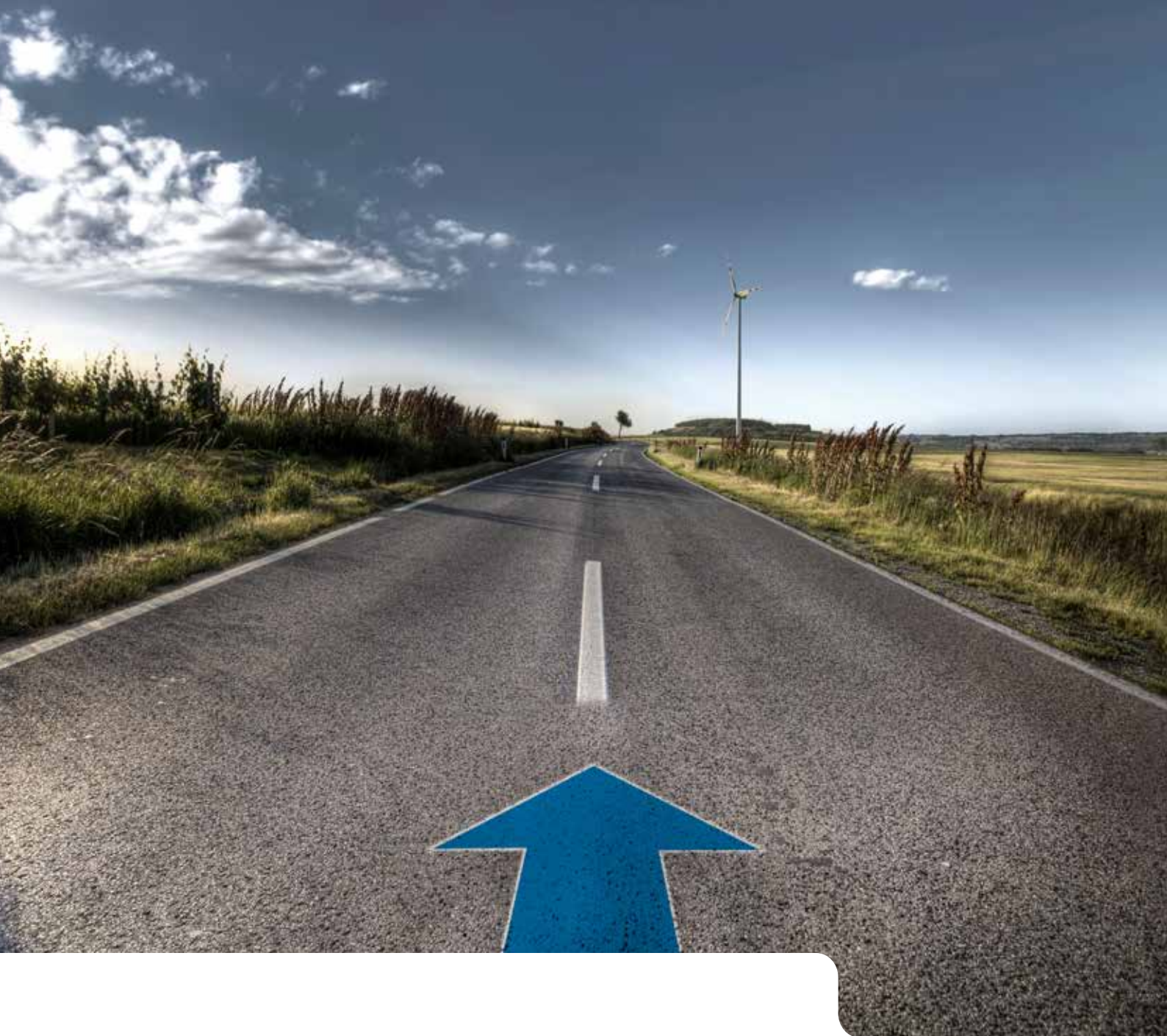
Command and control systems for test benches



Regenerative systems for battery formation



Pump command systems



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