

# Motion and Control




Many thanks for clicking on this document.  
Please let us introduce selected highlights  
from our Motion Control offer.




# Motion Control


## High reliance on product availability




**Electric Motors**  
Leading brand single and three phase motors, together with our Servo, Stepper and DC motors give a great choice for motion control applications.




**Motor Drives**  
The correct drive or starter is key for smooth running operation, it improves efficiency and reduces cost. Whatever your needs RS has a great selection of drives and controls to choose from.




**PLC's and HMI's**  
The top PLC and HMI brands know how import their products are to motion and control applications. RS works along side these brands to give you great choice and service.



**Cable and Accessories**  
It's important to consider the integrity of the control system. Our range of power and control cables together with cable accessories such as; cable chain and glands more than meets the mark.




**Pneumatics**  
Pneumatics have high use in motion control applications. Our range includes Cylinders, Fittings, Valves, Air Hose and many more handy accessories.



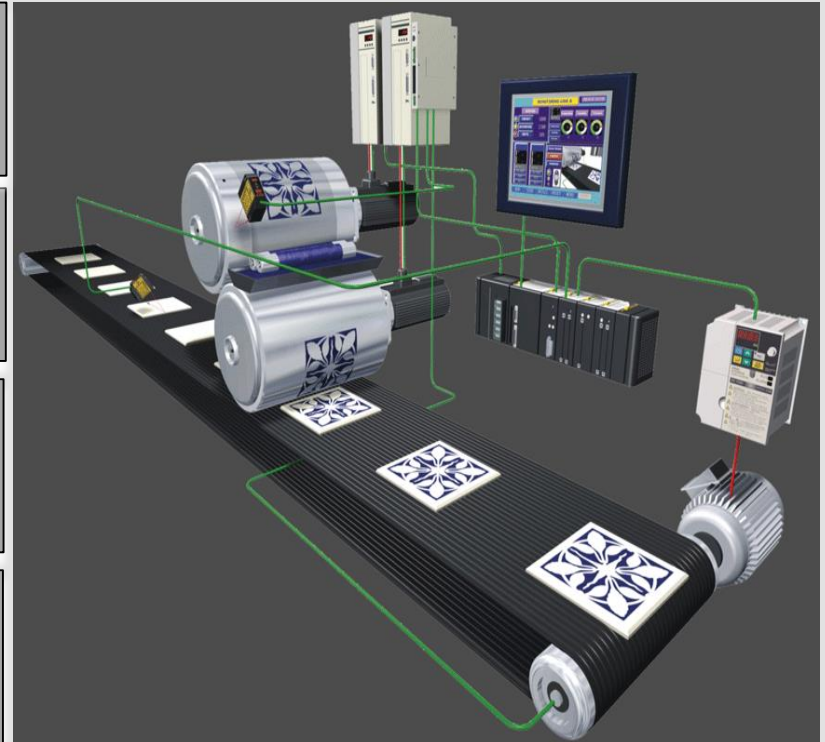
**Power Transmission**  
Important components can sometimes be overlooked, with our Power-Transmission range that's hard to do. Find all those essential products needed to complete your application.



**Processor & Microcontroller Development Kits**  
With 100's of development kits available you can trial and test with rapid Prototyping the applications that you are working on and bring them to life.



**Sensors**  
Detection and measurement is paramount. Integrated equipment needs a host of products that can detect objects, measure movement and provide feedback, to the Control system.



Motion Control is a key requirement for all industrial processes, whether it's assembly lines, conveying and packaging, CNC machining or even 3D printing. RS understands that motion control has many varied needs, from Motors and Controllers to Bearings and Belts, from niche products such as Inclination and Vibration Sensors to standard products like Machine Mounts. With RS these are all stocked and ready for delivery.

Shown here is a small selection of our Motion Control offer, within our website you have access to many thousands more Motion Control products.

# Motors and Drives – Key introductions

## Three great ranges of Motors and Drives.



DC Motors and Motor Drives

Make great choices with the Faulhaber range. From DC Micro Motors with extremely low rotor inertia and zero cogging to Servo Motors which are ideal for heavy duty servo applications.

Also available are motor controllers where minimal wiring and compact design allows for use in many environments such as; distributed automation systems, handling and tooling devices and pumps.

For high torque, high performance applications, look no further than the Precision Gear Heads to match your expectation.



Stepper Motors and Stepper Drives

Introducing the most popular 42mm and 56mm stepper motors from the SANYO DENKI SANMOTION range. Both are available with unipolar or bipolar windings and with a range of matching micro-stepping DC drivers to match.

In addition, RS stocks the latest high technology stepper motors for space critical applications, the super slim SS2421- 5041 42mm motor offers a compact stepping system in a package that is only 11.6mm deep, find these and further renowned motors and DC drives in our Sanyo Denki range.



Three ranges of inverters

VLT® Micro Drive FC 51 -The small drive with maximum strength and reliability, AC motors up to 22 kW.

VLT® Midi Drive FC 280 - the key to unlocking your efficiency potential. For precise and efficient motor control ideal for food and beverage, material handling, and processing industries.

LTR HVAC Basic Drive - is supplied with built-in functions that reduce initial costs and increase productivity. Automatic Energy Optimizer saves 15-25% energy from the second you turn it on.



# Electric motors and controllers – Vast range for vast applications

## AC motors



## Servo & Stepper Motors



## DC Motors



## Inverter Drives



## Servo & Stepper Drives



## DC Motor Drives



## Soft Starters





# PLC's and HMI's – Stay on top with our PLC and HMI offer

## Logic Modules



## PLC's



## HMI's



# Barth Elektronik – Innovation for PLC's

## Barth Elektronik Mini PLC's

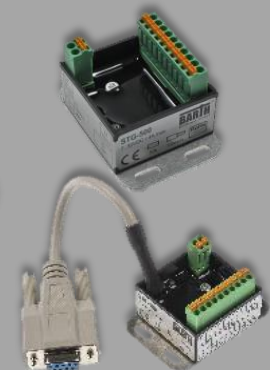
The STG-600 & STG-500 are highly integrated programmable logic controllers providing outstanding graphical programming capability at lowest current consumption and small form factor. With their cutting edge features they open up a variety of application fields in industrial, automotive and maritime technology. Ideal for use in restricted space and remote applications. The STG-600 & 500 have highly integrated and rugged protection circuits allowing the Mimi-PLC's to operate in harsh environments. With easy programming and no peripheral components required, they can be up and running in no time.



## STG-600



## STG-500

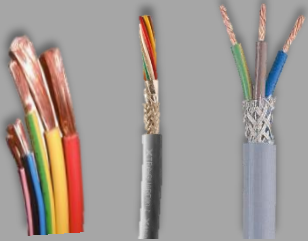
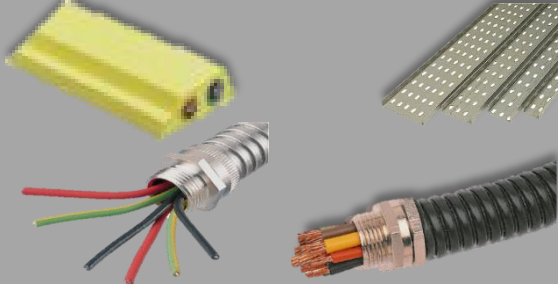






# Pneumatics and Power Transmission – For smooth motion control

Cylinders	Guide Cylinders	Grippers
		
		

Belts, Chains, Pulleys & Couplings	Bearings	Linear Guides	Screw Sets	Machine Mounts & Anti vibration
				
				


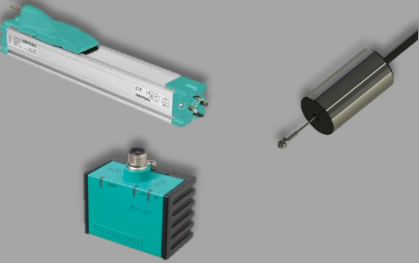

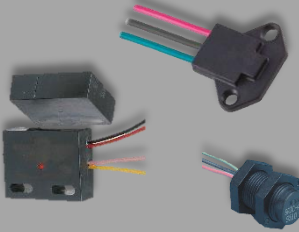




# Cable and Accessories – For Motion Control Applications

Cable	Conduit and Trucking	Cable Chain
		
		

# Industrial Switches – Control across your whole process

Limit Switches	Switch Disconnectors	Joystick and Keypads
		
		

# Sensors and Transducers - In addition to Proximity Sensors we have

Rotary Encoders	Linear and Angular Sensors	Precision Sensors	Hall Effect Sensors
			
			

## Complete Motion and Control – More than just a single product

Here you have seen only a small selection of products and technologies that make up motion control. But did you know that RS and our suppliers are working together, continually updating ranges and bringing new innovative products to market. Whether it's the latest products around IoT or a simple bearing or timing belt you can be sure it's available for order.

