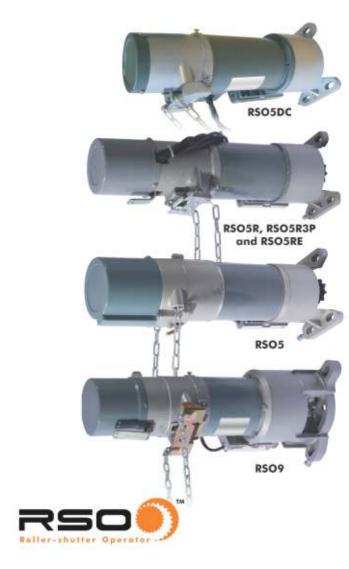






The power lifters of industrial automation



It truly is an awe-inspiring sight to see the CENTURION **RSO** nonchalantly lift a roller-shutter that would make most men tremble in their boots.

From its hardy aluminium gearbox to its powerful AC motor – everything about the **RSO** screams power.

Main Features

A model to suit your needs

Whether you need basic, cost-effective roller-shutter automation or your site calls for something a little more comprehensive, CENTURION has an **RSO** model to suit your unique needs.

Monstrous lifting force

Heavy lifting is its business...and business is good.

Even the baby of the lot, the RSO5R, has enough brawn in its gearbox to automate shutters weighing up to 500kg, and makes for powerful, cost-effective industrial automation.

Then there's the RSO5 – a mean machine of equal strength and durability that also includes a multi-faceted interface board for connecting ancillary and safety devices.

You'll find the perfect union of simplicity and raw, unadulterated power in the RSO5R3P. This three phase model provides the same reliable automation solution as the RSO5R – but with the added might of 380V behind it! That means an increased duty cycle and higher starting thrust - the RSO5R3P has got the OOMPH-factor down to an art!

Take one part gargantuan lifting force and add a never-say-die attitude, mix in a sturdy cast-iron gearbox and what you've got is the recipe for the **RSO** Endurance model, the **RSOSRE**. With an impressive duty cycle and capable of performing in excess of 400 operations per day thanks to the remarkably durable double-layer planetary gear design, the **RSOSRE** is THE solution for high-volume applications.

The RSO5DC is the industrial automation equivalent of the Renaissance Man. It really is the complete package: superior lifting force, reliable battery backup and virtually boundless functionality. Neatly housed within a convenient and secure wall box, two 7Ah batteries provide standby power to this 24V DC titan, while the super-intelligent D-series controller made famous by our D10 slider takes care of... well... just about everything!

Finally, weighing in with a whopping 550W of power and able to lift roller-shutters weighing up to 900kg, is the RSO9.

This beast, which receives an extra dose of power via a three-phase supply, provides all the muscle you need to automate exceptionally heavy shutters such as the entrances to airplane hangars.

Robust construction

Two words: Oblique gear. This proven transmission type, coupled with a motor that packs plenty of clout, makes for an industrial roller-shutter operator that makes quick work of even the heaviest of shutters.

Fail-safe manual operation

What is strength without reliability? In the unlikely event that something goes wrong, the **RSO** is committed to keeping you in business, with not one but two modes of manual operation.

All **RSO** models come standard with a five metre hand chain, ensuring that the shutter can be easily operated even from ground level.

Easy to commission

The strength of a good industrial operator lies not in its complexity, but in its... you guessed it, strength. The **RSO** range of operators is exceptionally easy to set up, and commissioning can be done in mere minutes thanks to a user-friendly cam system.

The exceptionally user-friendly **RSO5DC** takes hassle-free setup to a whole new level by adding a degree of intuitiveness, courtesy of an intelligent controller with LCD interface. Let's face it: we all have an inborn love for pressing buttons and, if you can commission a powerful industrial roller-shutter operator while doing it, all the better!

Reliable position control

Two mechanical limit switches are the heroes that tame the beast, making sure that the shutter stops accurately in the open and closed positions, every time.

Rock-solid mounting system

One can imagine that it takes quite a lot of muscle to keep such a colossus suspended several meters in the air – fortunately, CENTURION custom-made RSO mounting plates are more than up to the challenge, and includes vertical slots for easy adjustment of the operator.



Battery backup 1

A 24V battery with rapid charger ensures that come low voltages, power spikes or failures, you can always get in or out!

1. RSDSDC only

Open it the way you like it 1...

Rapid opening but a more tempered closing just in case a loved one or a truckload full of valuable goods is in the way, that's the sort of sophistication in motor control you can expect from the **RSO5DC**. Added to this, you can vary the acceleration and deceleration of your roller-shutter and make it move so smoothly it will do so for many years to come.

1. RSOSDC only

Plug and play 1

The **RSO5DC** comes standard with an LCD-based controller that makes child's play of setting up the roller-shutter. It is literally plug and play – the controller does all the thinking for you.

1. RSOSDC only

It's got it all 1

What a pleasure to click through an almost endless list of really useful features – from multiple Modes of Operation, shutter operating parameters, Alarm functions, Positive Close Mode and Real Time Clock and Calendar to enable

time-based features – to help diagnostic





Alarm features (a world first)

Recent crime stats indicate that robbery at non-residential properties is on the rise. Fortunately, criminals can't outsmart the RSO5DC. An ambush alarm will alert your security company if the opening or closing beams are interrupted for a predefined, but adjustable, time. Similarly, a Break-in Alarm will go off if the closing beam outside your factory or warehouse is interrupted.

1. RSOSDC poly. Requires gate safety become to be installed

Operate wirelessly, thanks to CENTURION 1

Besides its code-hopping technology offering the highest level remote control security, this multichannel and multi-user CENTURION onboard receiver allows for a multi-button remote to operate any combination of the system inputs, such as trigger, Holiday Lockout, etc.

1. K5O5DC only

Features and Functions

| | HOODE | NO SHOP | 1000 | MJG JGC | Magazine | KJO F |
|---|-------|---------|-------|---------|----------|-------|
| Max. shutter weight | 500kg | 500kg | 500kg | 500kg | 500kg | 900kg |
| Battery backup | | + | | Yes | 13 | - |
| Integrated wall- pendant | Yes | Yes | Yes | 1 | Yes | Yes |
| LCD interface | - 16 | × 1 | 100 | Yes | 136 | (4) |
| Manual override facility | Yes | Yes | Yes | Yes | Yes | Yes |
| Hand chain | Yes | Yes | Yes | Yes | Yes | Yes |
| Safety Beam Input | | | Yes | Yes | | 1,00 |
| Input for ancillary devices, e.g. keypads, pushbuttons, etc. | | 7. | Yes | Yes | 97 | |
| Courtesy Light input | 9 | 96 | Yes | Yes | 84 | 2 |
| Autoclose | - 26 | * | Yes | Yes | 134 | - |
| Local test button | - | | Yes | Yes | | |
| Multiple Modes of Operation | | 3 | 0.70 | Yes | (7 | 17 |
| ChronoGuard | | +. | | Yes | | |
| Onboard receiver | 2 | 2 | | Yes | 32 | - 12 |
| Beam Alarm Modes | - | - | | Yes | | |
| Adjustable speed | - 12 | | 573 | Yes | # 1 | - |
| Dual brake system | | - | Yes | 2 | | 0+1 |

RSOSR3P RSOS

RSO5DC

RSO9

Technical Specifications

| | R5O5R | RSO5R3P | RSO5 | RSO5DC | RSO5RE | RSO9 |
|--------------------------|--|--|--|--|--|--|
| Supply voltage | 220V-240V AC 50Hz | 380V AC 3Ø | 220V-240V AC 50Hz | 90V-240V AC 50Hz | 220V-240V AC 50Hz | 380V AC 3Ø |
| Power | 250W | 360W | 360W | 220W | 375W | 550W |
| Motor speed | 1780rpm | 1780rpm | 1780rpm | 1440rpm | 1780rpm* | 1780rpm |
| Door travel speed | 140mm/sec | 100mm/sec | 100mm/sec | 130mm/sec | 74mm/sec | 45mm/sec |
| Current | 3.5A 1Ø | 1.5 - 2A 3Ø | 3.7A 1Ø | 4.6A 1Ø | 3A | 2.2A 3Ø |
| Time rating | 7 min | 10 min | 10 min | 7 – 8min | 30 min | 8 min |
| Temperature protector | 95°C | 70°C | 105°C | 70°C | 125" | 115°C |
| Output shaft rotation | 53rpm | 35rpm | 35rpm | 50rpm | 28 | 17rpm |
| Gear ratio | 34:1 | 55:1 | 51:1 | 55:1 | 64:1 | 105:1 |
| Gear transmission | Single-row oblique gear | Single-row oblique gear | Single-row oblique gear | Double-row oblique gear | Double-layer planetary gear | Double-laye oblique gear |
| Gearbox material | Aluminium | Aluminium | Aluminium | Aluminium | Cast-iron | Aluminium |
| Drive type | Chain- driven | Chain- driven | Chain- driven | Chain- driven | Chain- driven | Chain- driven |
| Sprocket | 9T | 91 | 9T | 9T | 9T | 10T |
| Chain | 5/8 inch | 1 inch |
| Length | 540mm | 500mm | 570mm | 450mm | 530mm | 600mm |
| Net weight | 12.7kg | 12.8kg | 12.8kg | 9.64kg | 20.2kg | 22.1kg |
| Gross weight | 13.5kg | 13.5kg | 13.5kg | 10.4kg | 21.0kg | 23.0kg |
| Packing dimensions | Width: 260mm x Depth: 200mm x Height: 540mm | Width: 265mm x Depth: 210mm x Height: 570mm | Width: 265mm x Depth: 210mm x Height: 570mm | Width: 265mm x Depth: 210mm x Height: 570mm | Width: 260mm × Depth: 200mm × Height: 665mm | Width: 345mm x Depth: 285mm x Height: 600mm |

2 = 10%

Minimum Clearance



| Operator | Minimum A dimensions | | |
|----------|----------------------|--|--|
| RSO5R | 590mm | | |
| RSO5R3P | 590mm | | |
| RSO5 | 620mm | | |
| RSO5DC | 460mm | | |
| RSO9 | 650mm | | |

The 'A' dimension refers to the minimum amount of space needed to install each operator, i.e. the distance from the side of the shutter box to the first obstruction (eg. a pillar)







CENTURION infrared beams Always recommended on any

automation system



access control reader

Gooseneck Steel pale for mounting intercom gate station or



Available in one, two, three and four button variants. Incorporates code-hopping technology



SMARTGUARD or **SMARTGUARDair**

keypad Cost-effective and versatile wired and wireless keypad, allowing access to pedestrians



SupaNOVA receiver

Versatile multi-user compatible with the CENTURION codehopping range of remote controls



RSO5DC controller wallbox Durable, weather-resistant wall box housing all RSO5DC electronics.

0.67.A.0052_10092014

ESOE Conturion Systems (Pty) Ltd reserves the right to change any product without prior natice