



# SimpleSpin™

## Dual Gobo Rotator



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## QUICK SET UP GUIDE

The SimpleSpin™ Dual Gobo Rotator is ready to use with no configuration, right out of the box.

1. Load a standard B size gobo into each gobo wheel. The threaded collar should be tightened until just in contact with the gobo. Do not over tighten.

Tip: When screwing on the Threaded Collar, place one finger from each hand on the machined flat spots and slowly rotate the collar, keeping even pressure on both fingers. This helps the threads to engage evenly and prevents binding and cross threading.

2. Insert SimpleSpin™ into a the iris slot of a compatible luminaire. Make sure unit is completely seated.
3. Engage Friction Lock by depressing plunger. Secure SimpleSpin™ to the luminaire using a safety cable.
4. Connect an IEC 18AWG power cable to an appropriate power supply (100-240VAC 50/60hz). Make sure the Control Mode is set to LOCAL.
5. Use the speed knob to adjust rotation speed from 0.5 – 24 rpm. Use the Rotation Direction switch to reverse the rotation on each gobo.
6. If desired, connect the SimpleSpin™ power cable to an appropriate dimmer circuit and set the Control switch to Dimmer Remote. The speed of rotation can now be adjusted by controlling the output of the dimmer circuit. (Note: Some dimmers may not “recognize” the low wattage draw of the SimpleSpin™ and will fail to control it reliably. Insure that your dimmer is capable of handling inductive loads or low voltage devices.)

## 1. GETTING TO KNOW YOUR SIMPLESPIN™

### SimpleSpin™ Dual Gobo Rotator

SimpleSpin™ combines the perfect mix of a budget conscious price tag and useful features that really matter to a designer, electrician or event planner. A single, variable speed stepper motor is used to rotate two B size gobos. Always rotating in opposition, the movement can be as slow as 0.5rpm for building subtle, naturalistic effects. The maximum speed of 24rpm is perfect for creating a raging inferno or wild kinetic effects.

SimpleSpin™ is primarily a manual control, “set and forget” device. Define the perfect look for your lighting effect by precisely trimming the speed control knob. Cut power to the SimpleSpin™ to turn off, restore power to start your effect again. This simple operation is especially convenient in venues where more complex DMX control is either unavailable or unnecessary.

In instances where limited speed control from the lighting desk is needed, SimpleSpin™ can be operated via dimmer control. Configured this way, the speed of rotation will increase or decrease as the level on the dimmer goes up or down. (Check to insure your dimmers can handle inductive or low-voltage loads without a ghost load)

The SimpleSpin™ features

- A single motor rotates both gobos in opposing directions;
- Modern stepper motor drives with advanced electronic controls allow the designer to dial speed from 0.5rpm to 24rpm with no risk of stalling;
- Convenient on board speed and direction controls;
- Limited dimmer-remote functionality;
- High temperature silicon belt for smooth, reliable, silent (squeak free) operation;
- Threaded gobo collar insures secure fit for any type of gobo – thin metal to thick effects glass;
- Friction Lock™ secure fit mechanism holds the rotator tightly in the iris slot even when the lens barrel is rotated.

Unleash your imagination and browse through more than 2000 steel and glass gobos at [www.rosco.com](http://www.rosco.com) or design your own pattern, made by Rosco to your precise specifications. The lighting effects you will create with the SimpleSpin™ are limitless.

1. THREADED GOBO COLLAR
2. SAFETY CABLE ATTACHMENT
3. FRICTION LOCK
4. LED INDICATORS
5. SPEED CONTROL KNOB
6. DIRECTION SWITCH
7. DIMMER REMOTE SWITCH
8. IEC POWER CONNECTOR (NOT SHOWN)



## 2. WHAT'S IN THE BOX

- SimpleSpin™ dual gobo rotator
- IEC Power cord
- Operator manual

## 3. REQUIREMENTS

- 100-240VAC 50/60 hz mains power
- Modern ellipsoidal spotlight with appropriate sized iris slot including ETC S4, ETC S4 Zoom, Selecon Pacific, Strand SL and Altman Shakespear, among others.
- B size steel or glass gobos

## 4. SPECIFYING AND INSTALLING GOBOS

Your Rosco SimpleSpin™ Dual Gobo Rotator will accept standard B-size gobos of virtually any style, whether steel or glass, b/w or color, textured or flat. A B-size gobo has a diameter of 86mm (3.38in) and an image area of 64.5mm (2.54in).

Many modern luminaires have optical systems capable of projecting a larger image area. The SimpleSpin™ has an open aperture of 75mm (2.95in) giving you the flexibility to maximize your projection size by using gobos with a larger image area.

SimpleSpin™ will accept a wide range of gobo styles from many manufacturers including stainless steel gobos, Colorizers™, Image Glass™, Primitives™, Colorwaves™, B/W Glass gobos, 1C Glass Gobos, 2C Glass Gobos, 3C Glass Gobos, Multi-Color Gobos and many others.

### Loading Gobos into your SimpleSpin™ rotator

SimpleSpin™ has two gobo wheels into which you can load gobo effects. While it is most common to load just one gobo into each wheel, you can stack gobos together into the same wheel position providing your stack does not exceed the total maximum thickness of 3.5mm (0.138in).

All Rosco BeltDriveFx rotators utilize an innovative Threaded Collar to securely hold gobos of varying thicknesses. Unlike the spring clips common in similar devices, the Threaded Collar screws down to positively secure the gobo in place. This prevents the gobo from slipping during rotation and losing index or centering.

To load a gobo into the gobo wheels

1. Place the rotator on a stable flat surface. Unscrew the Threaded Collar from each gobo wheel (counter-clockwise to unscrew, clockwise to tighten).

There are two flat sections on the collar to give your fingers a place to grip. If the collar has been over tightened and is stuck, another small machined spot on the outer ring allows you to gain purchase when spinning the collar opposite to the entire gobo wheel.



2. Once the Threaded Collars are removed, insert a B size gobo so that it lays flat against the gobo wheel.

**TIP:** When installing a metal gobo, an optional Gobo Spacer Ring (Part no. 205 83007 0000) is available to increase the separation between the gobos to achieve a wider range of focus effects. This spacer can also be useful if two metal gobos with fine thin details are being used. In the event that the heat from the luminaire causes the gobos to warp towards one another, use of the spacer ring will prevent the gobos from getting tangled together.

3. Screw on the Threaded Collar until just in contact with the gobo. Do not over tighten.

The Threaded Collar has Teflon™ threads to ease rotation and avoid binding however there is still a small risk of cross threading. Do not forcibly screw on the Threaded Collar. If you encounter undue resistance, back off and start again. Lay the Threaded Collar flat onto the

ring and slowly and evenly rotate until the threads align and engage properly.

**TIP:** When screwing on the Collar, place one finger from each hand on the machined flats and slowly rotate the collar, keeping even pressure on both fingers. This helps the threads to engage evenly and prevents binding and cross threading. If you are having difficulties getting the thread to “catch,” slowly spin the Collar CCW while continuing to apply gentle even pressure, then reverse back to CW until the threading begins.

4. Repeat this process for both gobo wheels.

**NOTE:** *When using Apollo gobos*

*Apollo Design manufactures a non-standard “B” sized gobo which has an 80mm diameter. Rosco BeltDriveFx rotators can accept these smaller gobos provided you keep a few considerations in mind. The underside of the Threaded Collar which hold gobos in place has been machined with an 80mm recessed lip. To install an Apollo 80mm gobo, you must insure that the gobo sits in the center of the gobo mounting ring as the Threaded Collar slowly tightens down. Slight wiggling of the gobo during this process helps to find the center recessed ridge.*

## 5. INSTALLATION AND POWER CONNECTIONS

The SimpleSpin™ has been engineered to fit into the bodies of most modern ellipsoidal luminaires including ETC Source Four, ETC S4 Zoom, Selecon Pacific, Selecon Pacific Zoom, Altman Shakespeare and Strand SL among others.

1. Insert SimpleSpin™ into the iris slot of the luminaire with the motor box facing forward, towards the lens.

Inserting the rotator in the opposite orientation will cause the motor box to interfere with the shutter handles.

It may be necessary to angle the yoke of the luminaire back to allow access into the accessory iris slot.

On certain luminaires, the sliding cover over the iris slot may have to be removed to allow the SimpleSpin™ to fit properly.

Note: When installing into a Selecon Pacific luminaire, align the groove in the edge of the SimpleSpin™ body with the rear-most tab of the Iris Slot.

2. When seated fully and completely, the gobo wheel should be centered in the lens tube. If necessary, remove the lens tube and visually confirm

that the rotator is seated and aligned properly. It is important that the aperture of the gobo rotator be centered in the optical path of the luminaire in order to project without obstructions to the gobo design.

3. The SimpleSpin™ is equipped with a unique safety feature, the Friction Lock. Depress the metal slider located on the left side of the SimpleSpin™ to extend a knurled brake cylinder.

This brake presses against the inside wall of the iris slot, securely holding the SimpleSpin™ in place.



Note: To install the SimpleSpin™ into your luminaire it is necessary that the Friction Lock Slider be in the UP position, with the lock disengaged.

4. Attach a safety cable to the SimpleSpin™ and then to the yoke of your luminaire or other secure point.

The D-cut out in the metal housing to the right of the motor box will accept the spring clip of a standard safety cable or the loop end of a small safety cable.

### Power

The SimpleSpin™ uses an internal, auto-sensing, auto-switching power supply suitable for almost any location.

1. Connect it to any suitable 100-240VAC 50/60hz power source using an ANSI standard IEC cable.
2. You have two power and control options with the SimpleSpin™. Using the switch on the top of the motor box, specify either LOCAL or DIMMER REMOTE modes. If used in LOCAL mode, make sure the SimpleSpin™ is connected to a constant voltage source. If used in DIMMER REMOTE mode, make sure the SimpleSpin™ is plugged into a suitable SCR or IGBT dimmer module.

## 6. OPERATING THE SimpleSpin™

The SimpleSpin™ is intended for ease of use and operation. The single motor design drives the gobo wheels in opposing direction, with variable speed consistent between the two. SimpleSpin™ cannot spin two gobos in the same direction. If this effect is desired, consider using either the REVO™ or Revo-Pro™.

1. With the Control switch set to LOCAL mode, turn the speed knob to begin rotation of the gobos. Rotation speed can be adjusted from approximately 0.5 rpm to 24rpm. Set the speed control knob to the speed for your desired effect. Many applications call for this “set and forget” style of operation. Once the speed has been adjusted, power to the SimpleSpin™ can be cut to turn off the rotator, and then back on to start rotation again at the previously set speed.
2. If desired, flip the ROTATE DIRECTION switch to reverse the gobos’ rotation
3. Instead of “set and forget” manual operation, it is possible to control the speed of rotation remotely, bypassing the onboard speed knob. Flip the CONTROL MODE switch to the DIMMER REMOTE setting. When set in this mode, and plugged into a dimmer module, the speed of rotation can be adjusted by varying the output of the dimmer. In this mode, the speed knob has no affect on rotation. Depending on the sensitivity of your dimmer and lighting console, you may not have fine control over the entire range of speed settings.

**NOTE:** Some dimmers may not “recognize” the low wattage draw of the SimpleSpin™ and fail to operate it reliably. Insure that your dimmer is capable of handling inductive loads or low voltage devices.

4. If you prefer, you can black out the LED indicator lights on the control box using the LED OFF switch. This is convenient if operating the SimpleSpin™ in a dark, enclosed environment such as a small theatre space or Haunted Attraction.

### Controls

#### SPEED KNOB

Controls speed of gobo rotation from 0.5rpm to 24rpm

#### CONTROL MODES

Switches between LOCAL or manual control where speed is controlled by speed knob and DIMMER REMOTE where speed is controlled by varying the input voltage using an SCR or IGBT dimmer.

#### ROTATE DIRECTION

Switches relative direction of each gobo wheel. Gobos always rotate in opposite directions to one another.

## LED OFF

Blacks out the LED indicator lights on the front of the motor control box.

## 7. PRECAUTIONS

- Use only properly rated IEC power cord (18AWG 3C SJT) and connect only to compatible voltage supplies (100-240v 50-60hz).
- Always use a safety cable to insure the SimpleSpin™ cannot fall out of the fixture.
- Do not allow power cord to come in contact with the hot body of the luminaire or the rear lamp cap.
- Keep fingers clear of moving parts.
- The metal case of the SimpleSpin™ may get very hot after continuous use in a luminaire. Use caution to avoid burns when handling units that have been in running luminaires.

## 8. TROUBLESHOOTING

1. The SimpleSpin™ will not fit into the Iris Slot.
  - a. Make sure the Friction Lock is in the up (disengaged) position and that the lock itself is not extending outside the metal case.
  - b. The iris slot cover of the luminaire may need to be removed to allow complete access to the slot. Fully remove the two screws holding the cover and lift off. Set aside so that the cover can be reinstalled at a later date.
  - c. Installing the SimpleSpin™ into the Selecon Pacific Coolight requires that the guide channel in the side cut of the SimpleSpin™ align with the rear guide track in the Pacific's iris slot.
  - d. The Selecon SPX and Leviton Leo luminaires are not currently compatible with the SimpleSpin™ rotator.
2. Threaded Collar will not tighten down on gobo
  - a. Check that Threaded Collar is not cross-threaded. Gently unscrew the Threaded Collar. Reset gobo and re-thread Threaded Collar following the instructions in Section 4, Installing Gobos.
3. The projected gobo appears out of round or cut off.
  - a. The SimpleSpin™ is not properly seated in the luminaire. Remove SimpleSpin™ unit and reinsert making sure that the unit is

seated all the way down in the light.

- b. The Selecon SPX and Leviton Leo luminaires are not currently compatible with the SimpleSpin™ rotator.
4. SimpleSpin™ is powered on but no LED lights appear to indicate that the unit is receiving power.
  - a. Check LED OFF switch is set to the ON position.
  - b. Confirm power to IEC cable.
5. Motor is turning, but one or both gobos are not turning.
  - a. Check belts. Replace if broken. Reset if out of alignment.
  - b. Check to see if gobos have warped and are entangled. If necessary, use a Gobo Spacer Ring (205 83007 0000) underneath one or both metal gobos.
6. SimpleSpin™ is powered on but speed control knob has no affect on speed.
  - a. Check that Control Switch is set to LOCAL not Dimmer Remote
7. Gobo rotation is erratic and irregular.
  - a. Make sure Threaded Collar is tight enough on the gobo to prevent slipping. Do Not Over Tighten.
  - b. If using two steel gobos, check to make sure gobos have not warped towards one another and become entangled. If this has happened, use a Gobo Spacer Ring (205 83007 0000) underneath one or both metal gobos.

## 9. Technical Specifications

### Dimensions (w x h x d)

4.67in x 10.375in x 0.53/2.4in

119mm x 263.5mm x 13.4/63.6 mm

### Weight

22.4 oz (0.63Kg)

### Electrical

Input: 100-240VAC 50/60hz

Max Power Draw: 1A

Connector Type: IEC C13

### Operation

Speed 0.5 - 24 rpm via on-board potentiometer

Control Manual or dimmer remote

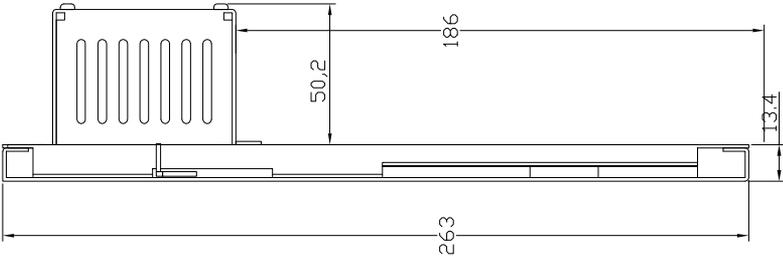
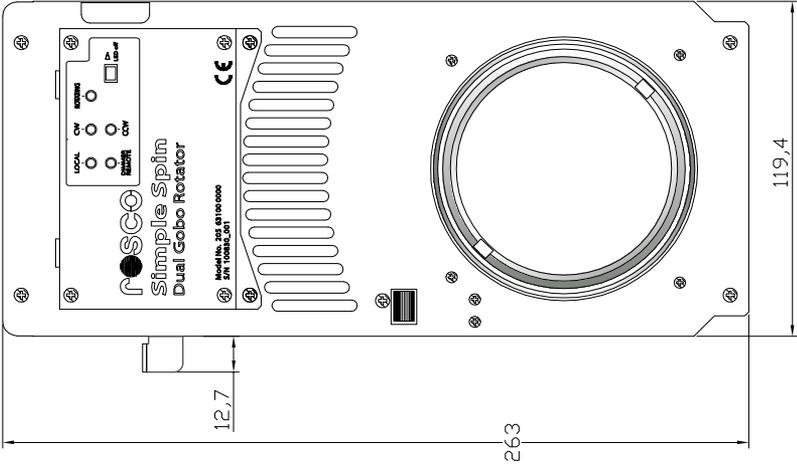
### Gobos Type and Sizes

86mm Std B Size (metal or glass)

Apollo B (80mm) metal or glass

86mm OD x 75mmIA x 3.5mm thick

(maximum dimensions)



10. Compliance and Certifications

**DECLARATION OF CONFORMITY**

**ROSCO LABORATORIES INC.,**  
52 Harbor View Ave  
Stamford, CT 06902  
United States

Hereby declares that the product(s):  
**Rosco DMX Iris, Rosco Simple Spin, Rosco REVO, Rosco Revopro**

Model Number(s)  
**74500, 63100, 64200, 64250**

Conform(s) to the following Product Specifications:

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**European Council Directive 2004 / 108 / EC**

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**EN 61326-1:2006, EN 61000-3-2:2006, EN 61000-3-3, 1995+A1:2001+A2:2005**

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**European Council Directive 2006 / 95 / EC**

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**EN 61010-1:2001**



  
Joshua Alemany  
Director of Products

Date: June 11, 2009

## 11. Warranty

The warranty protection described below covers the following list of Rosco lighting effects equipment (the "Product"): Vortex 360 Gobo Rotator (all styles), DHA Gobo Rotators (all styles), DHA Animation Motor (all styles), Infinity Animation System (all styles), I-Cue Moving Mirror, X24 Effects Projector (all styles), PSU 50, PSU 51, PSU 200, PSU 400, SimpleSpin™ Rotator, REVO Rotator, and RevoPro™ Rotator.

### 1 YEAR LIMITED WARRANTY

Rosco Laboratories warrants to the first retail purchaser that this Product will be free from defects in workmanship and material for a period of twelve (12) months from the date of original purchase. For warranty service you must be able to provide proof of purchase.

Should this Product prove defective during the warranty period, please contact your local Rosco office for return authorization. No warranty service will be performed without Return Authorization. At Rosco's sole discretion, covered Products will be repaired or replaced with new or refurbished equipment or a model of like kind and quality. Exchanged or replaced parts and Products assume the remaining warranty period of the original Product covered by this limited warranty.

You are responsible for securely packaging the defective Product and returning it to Rosco as per the instructions on the Return Authorization. Within North America, Rosco will ship the repaired or replaced Product back to you freight prepaid. Shipments to other locations will be made freight collect.

This warranty is not transferable and does not extend beyond the first retail purchase of the Product. This warranty does not cover damage to the Rosco product caused by parts not manufactured, distributed or certified by Rosco. Rosco is not obligated to provide warranty service should the product fail to be properly maintained or fail to function properly as a result of misuse, abuse, improper installation, neglect, improper shipping, damage caused by disasters such as flood, fire and lightning, improper electrical current or connection or service other than by a Rosco Authorized Servicer. If a claimed defect cannot be identified or reproduced, you will be held responsible for the costs incurred.

Unless otherwise stipulated by state law, all warranties expressed or implied are limited to the twelve (12) month period of this warranty.

THE WARRANTY AND REMEDY PROVIDED ABOVE ARE EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESS OR IMPLIED WARRANTIES INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY, NON-INFRINGEMENT OR FITNESS FOR A PARTICULAR PURPOSE. EXCEPT AS PROVIDED IN THIS WRITTEN WARRANTY AND UNLESS EXCLUSIONS ARE SPECIFICALLY FORBIDDEN BY STATE LAW, NEITHER ROSCO NOR ITS AFFILIATES WILL BE LIABLE FOR ANY LOSS, INCONVENIENCE, OR DAMAGE, INCLUDING DIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING INJURY TO PERSONS OR PROPERTY, RESULTING FROM THE USE OR INABILITY TO USE THE ROSCO PRODUCT, WHETHER RESULTING FROM BREACH OF WARRANTY OR ANY OTHER LEGAL THEORY.

## 12. ACCESSORIES AND PARTS

Metal and Glass Gobos	<a href="http://www.rosco.com/us/gobos">www.rosco.com/us/gobos</a>
Gobos Spacer Ring	Part No. 205 83007 0000
Threaded Collar – Gobo mounting wheel	Part No. 205 65002 0001
Silicon Belts – Set of 2 – SimpleSpin™	Part No. 205 65310 0000
Silicon Belts – Set of 2 – REVO & RevoPro™	Part No. 205 65420 0000
Safety Cable	Part No. 205 65008 0001
Power Cord 16/3 IEC - 6ft (1.8m)	Part No. 226 19903 0119
4-Pin Power / Data Cable – 25 ft	Part No. 205 70002 0025
5-Pin DMX Cable – 25 ft	Part No. 201 50425 0025
PSU 50	Part No. 205 71402 0050
PSU 51 (includes DMX pass-thru)	Part No. 205 71402 0051
PSU 200	Part No. 205 71402 0200



### Gobo Library

Rosco's extensive gobo library contains more than 2500 steel and glass designs and provides the inspiration and creative tools to invent almost any lighting effect a designer needs. [www.rosco.com/us/gobos/](http://www.rosco.com/us/gobos/)



### REVO™ Dual Indexing Rotator

Quiet, reliable, versatile, double gobo rotator. Fully independent indexing control of both gobos. Powered by an industry standard 24v PSU for easy installation in most lighting rigs.



### RevoPro™ Dual Programmable Rotator

Many of the same features as the REVO™ but needs no external PSU. A library of 99 effects sequences offers versatility without requiring a DMX lighting console. "Set and Store" stand-alone mode is also available



### DHA Double Gobo Rotator

Proven reliable for more than 25 years, the Double Gobo Rotator uses a precision engineered gear drive to rotate two gobos independent of one another. Manual and DMX Controllers are available for this 12v device.



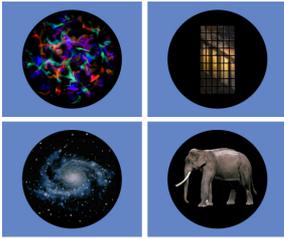
### Vortex 360 Gobo Rotator

The durability and reliability of a gear drive at a value-engineered price. The Vortex uses an external 12v transformer and is controlled by an on-board speed potentiometer.



### Infinity Animation Effects System

A large rotating disk of your selection animates any gobo with realistic and kinetic movement. Shimmering fire, falling rain, blowing clouds and leaves are among a few of the linear effects created with the Infinity.



## iPro Image Projector

This innovative accessory holds and cools a plastic gobo printed from an ordinary ink jet printer. From your Source Four or similar leko, project any full color or black and white design you imagine within minutes.



## I-Cue Moving Mirror

A perfect accessory to expand your light-plot. This silent, accurate motorized mirror attachment turns your simple leko into an infinite number of repositionable lighting specials.



## X24 Effects Projector

Bright, dynamic, unique rippling light effects. Weighing barely 12 lbs but with a 5000 lumen output, the X24 projector creates dazzling, water and fire effects, aurora borealis, and more.



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