Rose Mechanism Options

For Lever Handles & Door Knobs

From Joseph Giles

Grip Tight, Self-centring, Sprung Bearing Inner-Rose System

Stainless steel roses with springing mechanism and sealed ball bearings, for optimum performance.

The unique rota-bearing sprung rose brings smooth, positive and flawless operation while addressing all the common lever handle issues. The unique rota-bearing sprung rose is our preferred option to be used with all lever handles.

Common Lever Handle Issues:

- ✕ Handles that droop down or that are slow to return.
- ✕ Excess wobble between the handle and the rose.
- ✕ Handles that point upwards by a couple of degrees.
- ✕ Sluggish operation due to zero installation tolerance.
- ✕ Overly thick roses which are out of proportion.
- ✕ Visible fixings in some instances.

The Rota Bearing Sprung Rose Solutions:

- ✓ Rota bearing spring to ensure a smooth and positive lever handle action.
- ✓ Firm and stable action with as much wobble as possible eliminated.
- ✓ Precise handle alignment and built in ‘stops’ that hold the handles on a perfect plane.
- ✓ Easy to install with a fitting jig available for site use.
- ✓ Slimline rose for a very attractive and subtle appearance.
- ✓ Concealed but strong bolt through fixings.
- ✓ Entirely manufactured in the UK.
- ✓ Completely maintenance free.

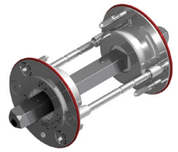
Depth of hole in door	Diameter of hole in door	Angle of movement	Bolt-through fixing position	Can be used without a latch	Sprung	Required latch spring strength for levers	Required latch spring strength for doorknobs
10.5mm (both sides)	30.0mm (both sides)	0 > 48°	Horizontal or vertical, 38mm c-c	✕	✓	Light - Medium	N/A

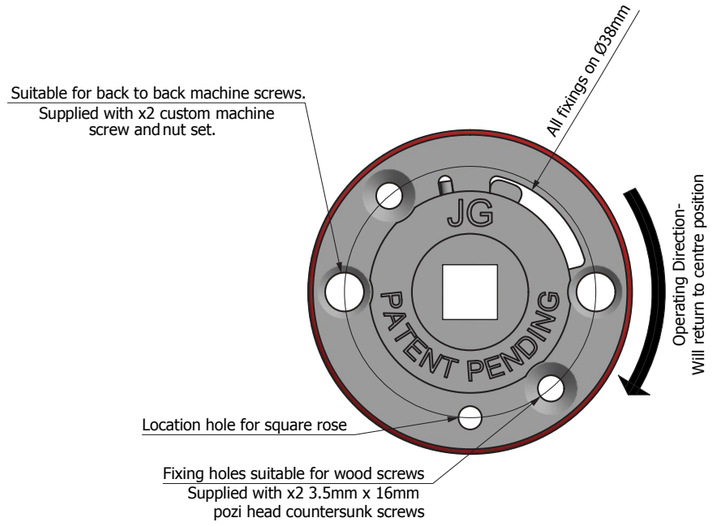
Typical application

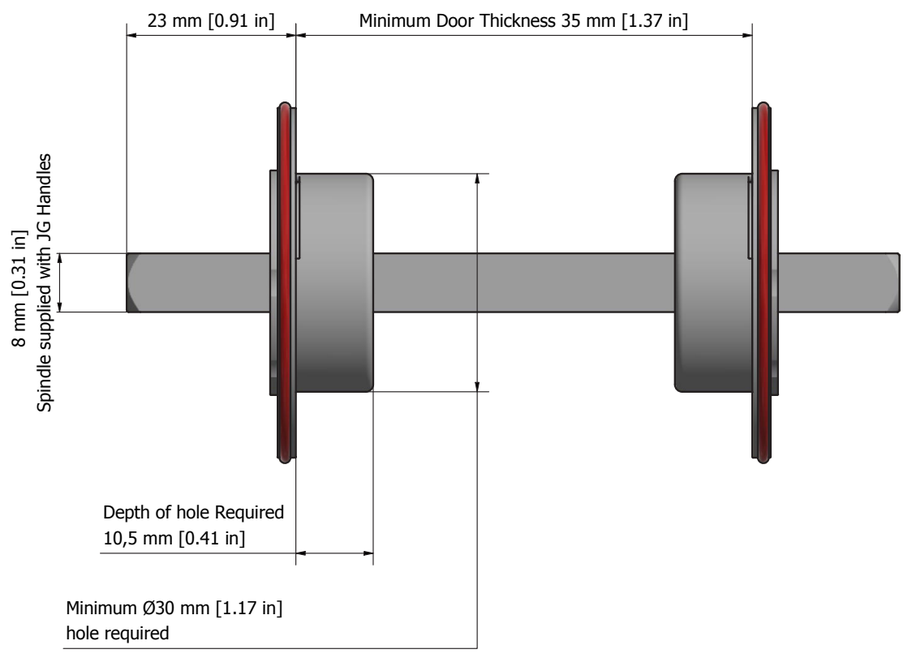
- Internal and/or external timber doors requiring door lever handles
- Areas where aesthetics and high performance are important
- Generally supplied as a pair, i.e. one each side of the door where lever handles operate a mortice latch
- Minimum door thickness of 40mm
- Can be used with lever handles and some multipoint locks.
- Not suitable for use with some tubular latches

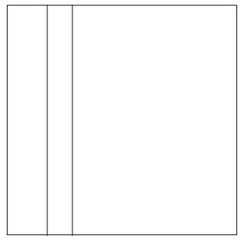
Example of a lever handle with a full code: LV1045.01.SPBEARING.BN

Grip Tight, Self-centring, Sprung Bearing Inner-Rose System



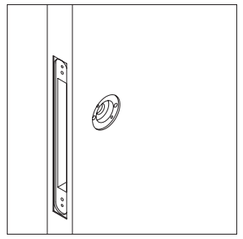






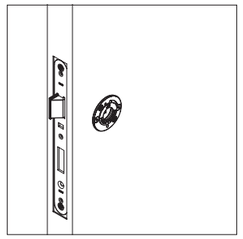
1. Section of door

- Minimum door thickness 40mm.
- Special spindle required for over 54mm.
- Solid door advisable.



2. Mortice holes for latch/lock and rose

- 30mm diameter x 10.5mm deep hole for sprung rose on both sides.
- Latch/lock cut out.
- Create holes for wood screws and bolt-through fixings.



3. Install latch/lock and rose

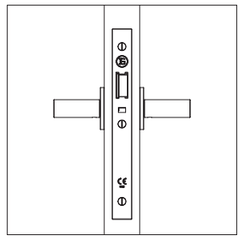
- Install roses with bolt-through fixings and screws.
- Install latch/lock with wood screws.

4. Install spindle and forend

- Spindle inserted through sprung roses.
- Forend screwed on to latch/lock, on front face of the door.

5. Fit handles

- Decorative cover roses installed.
- Lever handles installed with grub screws.



6. Sprung roses installed on both sides

Grip Tight, Bearing Inner-rose System

Stainless steel roses with sealed ball bearings, for optimum performance.

The bearing rose to brings smooth, positive and flawless operation while addressing all the common door knob issues. The unique bearing rose is our preferred option to be used with all door knobs.

Common Door Knob Issues:

- ✕ Excess wobble between the door knob and the rose.
- ✕ Sluggish operation due to zero installation tolerance.
- ✕ Overly thick roses which are out of proportion.
- ✕ Visible fixings in some instances.

The Bearing Rose Solutions:

- ✓ Firm and stable action with as much wobble as possible eliminated.
- ✓ Precise door knob alignment that holds the door knobs on a perfect plane.
- ✓ Easy to install with a fitting jig available for site use.
- ✓ Slimline rose for a very attractive and subtle appearance.
- ✓ Concealed but strong bolt through fixings.
- ✓ Entirely manufactured in the UK.
- ✓ Completely maintenance free.

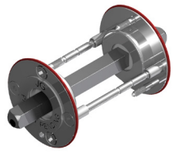
Depth of hole in door	Diameter of hole in door	Angle of movement	Bolt-through fixing position	Can be used without a latch	Sprung	Required latch spring strength for levers	Required latch spring strength for doorknobs
8.0mm (both sides)	30.0mm (both sides)	360°	Any, 38mm c-c	✕	✕	Heavy	Light

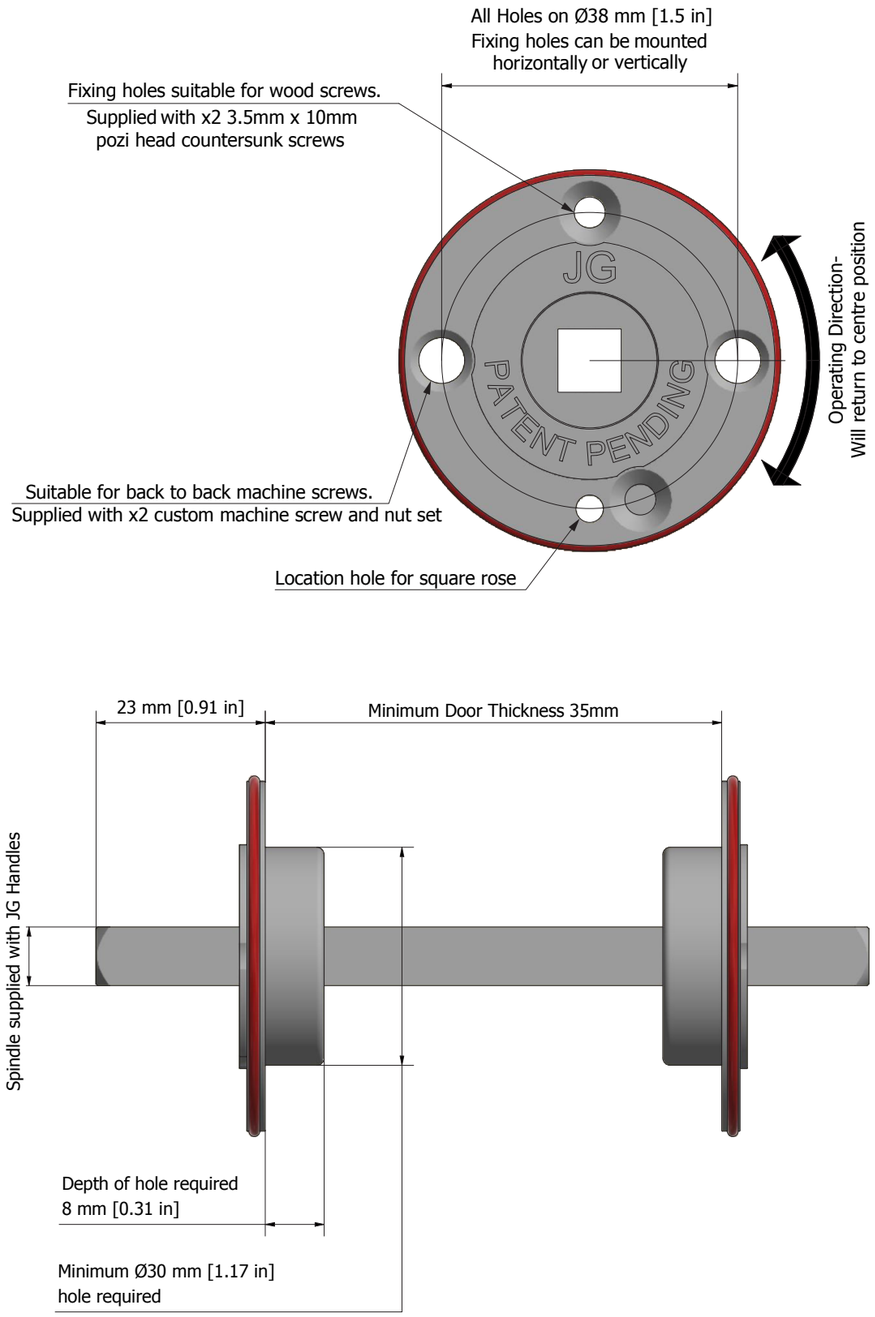
Typical application

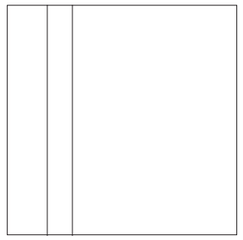
- Internal and/or external timber doors requiring door knobs
- Areas where aesthetics and high performance are important
- Generally supplied as a pair, i.e. one each side of the door where door knobs operate a mortice latch
- Minimum door thickness of 35mm
- N.B. Can be used with lever handles and some multipoint locks

Example of full code: DK1022.01.BEARING.BN

Grip Tight, Bearing Inner-rose System

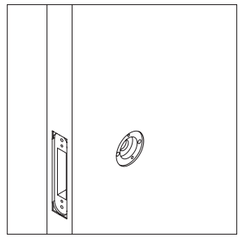






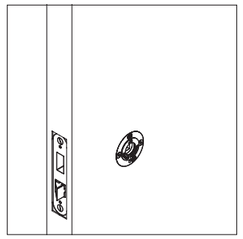
1. Section of door

- Minimum door thickness 35mm.
- Special spindle required for over 54mm.
- Solid door advisable.



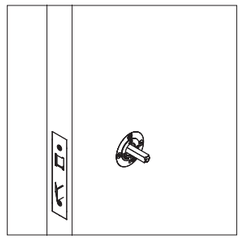
2. Mortice holes for latch/lock and rose

- Mortice holes for latch/lock and rose.
- 12mm diameter hole through the door for rose on both sides.
- Latch/lock cut out.
- Create holes for wood screws and bolt-through fixings.



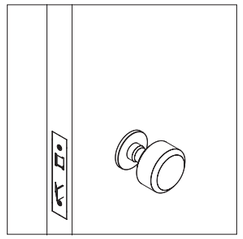
3. Install latch/lock and rose

- Install roses with bolt-through fixings and screws.
- Install latch/lock with wood screws.



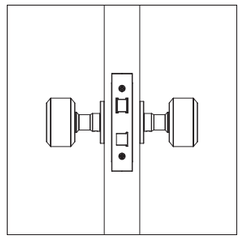
4. Install spindle and forend

- Spindle inserted through sprung roses.
- Forend screwed on to latch/lock, on front face of the door.



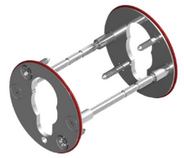
5. Fit handles

- Decorative cover roses installed.
- Door knobs installed with grub screws.



6. Roses installed on both sides

Basic Unsprung
Inner-rose Mechanism



Flat aluminium rose, that may have to be used in some situations where the Grip Tight, Self-centring, Sprung Bearing Inner-Rose System cannot be accommodated, for example, thin metal doors.

This rose option is not our preferred rose to supply with lever handles or door knobs, it does not offer any of the properties and or performance of the grip tight or sprung rose designs, and operation of the handles are purely down to the strength of the lock and highly accurate installation.

The Basic Unsprung Solutions:

- ✓ Slimline rose for a very attractive and subtle appearance.
- ✓ Concealed but strong bolt through fixings.
- ✓ Entirely manufactured in the UK.
- ✓ Completely maintenance free.

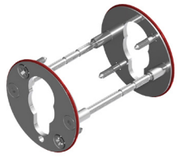
Depth of hole in door	Diameter of hole in door	Angle of movement	Bolt-through fixing position	Can be used without a latch	Sprung	Required latch spring strength for levers	Required latch spring strength for doorknobs
0.0mm (both sides)	0.0mm (both sides)	360°	Any, 38mm c-c	✗	✗	Heavy	Light

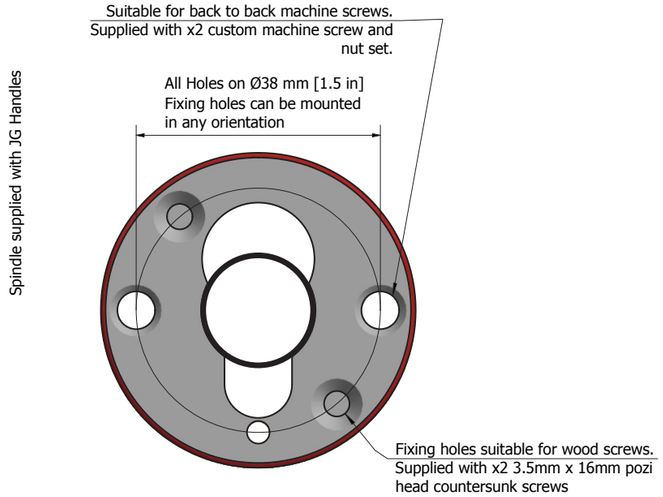
Typical application

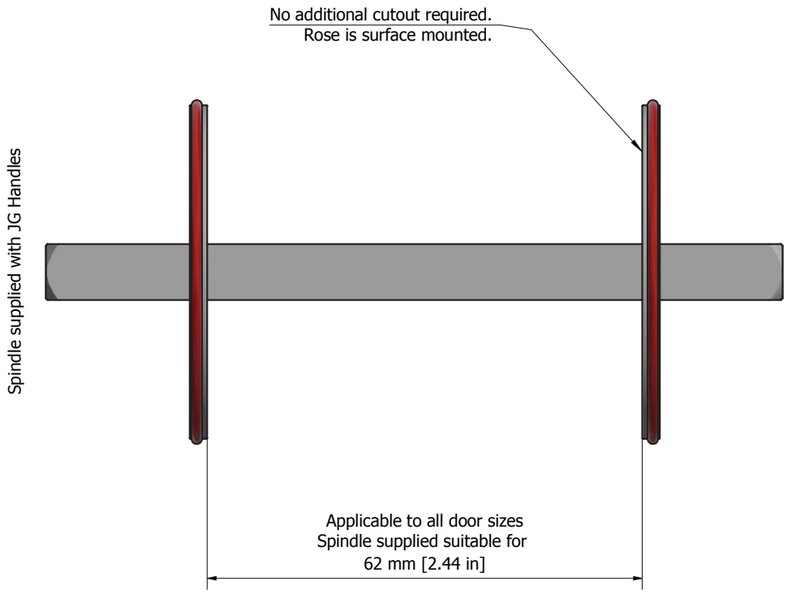
- Not recommended for areas where aesthetics and high performance are important
- Can be fitted to some metal or crittall doors, where a sprung rose could not be accommodated
- Can be used with some multipoint locks
- Minimum door thickness of 25mm

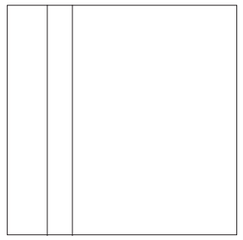
Example of full code: LV1045.01.BASIC.BN

Basic Unsprung
Inner-rose Mechanism



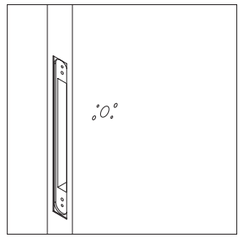






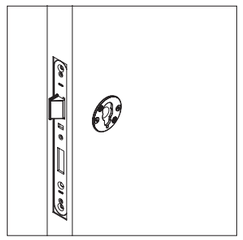
1. Section of door

- Minimum door thickness 25mm.
- Special spindle required for over 54mm.
- Solid door advisable.



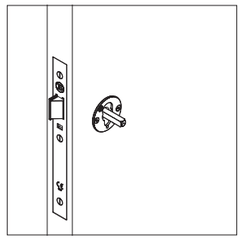
2. Mortice holes for latch/lock and rose

- Mortice hole for latch/lock.
- 12mm diameter hole through the door for rose on both sides.
- Latch/lock cut out.
- Create holes for wood screws and bolt-through fixings.



3. Install lock/latch and rose

- Install roses with bolt-through fixings and screws.
- Install latch/lock with wood screws.

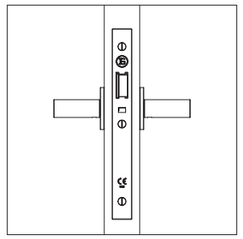


4. Install spindle and forend

- Spindle inserted through sprung roses.
- Forend screwed on to latch/lock, on front face of the door.

5. Fit handles

- Decorative cover roses installed.
- Lever handles installed with grub screws.



6. Basic roses installed on both sides

Extra Strong Fixed Spindle for Inner-rose System

Stainless steel roses with TIG-welded fixed spindles.

A highly durable fixed rose for use where a lever handle or door knob is not required to turn, or rotate but is needed to be installed in a push/pull application, e.g. when used in conjunction with a magnetic catch on a cupboard door.

The Fixed Spindle Solutions:

- ✓ Slimline rose for a very attractive and subtle appearance.
- ✓ Concealed but strong bolt through fixings.
- ✓ Entirely manufactured in the UK.
- ✓ Completely maintenance free.

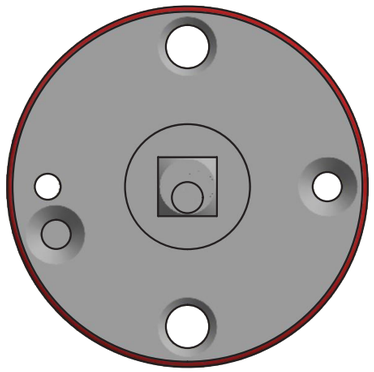
Depth of hole in door	Diameter of hole in door	Angle of movement	Bolt-through fixing position	Can be used without a latch	Sprung	Required latch spring strength for levers	Required latch spring strength for doorknobs
6.5mm (one or both sides)	24.0mm (one or both sides)	0° (fixed)	Horizontal or vertical, 38mm c-c	✓	✗	N/A	N/A

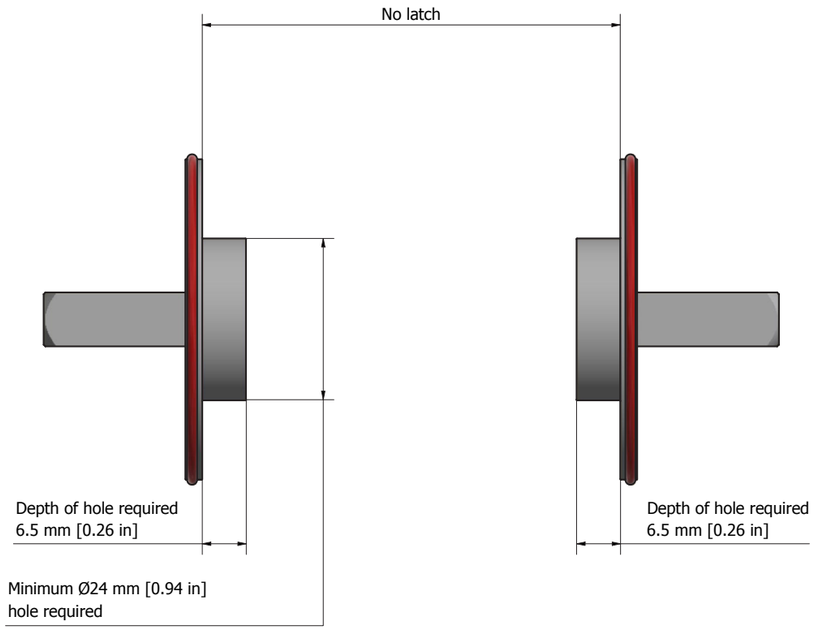
Typical application

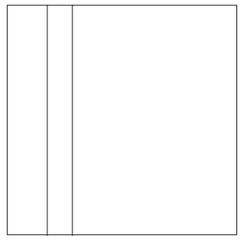
- Timber doors
- Where lever handles or door knobs are required to be used in a push/pull application
- Often used with a magnetic or roller catch
- Cupboard or closet doors where the lever handles or door knobs are fixed
- Double doors where the lever handles or door knobs are fixed
- Minimum door thickness of 25mm

Example of full code: LV1045.01.FIXED.BN

Extra Strong Fixed Spindle for Inner-rose System

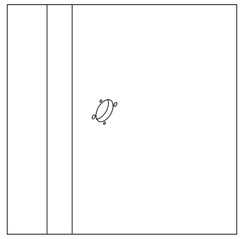






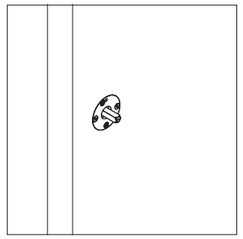
1. Section of door

- Minimum door thickness 25mm.
- Solid door advisable.



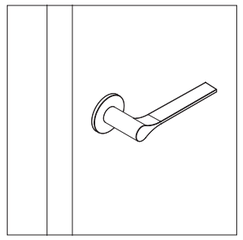
2. Mortice hole for latch/lock and rose

- Mortice hole for latch/lock and rose.
- 24mm x 6.5 deep hole for fixed rose.
- Drill pilot holes for rose fixing screws.



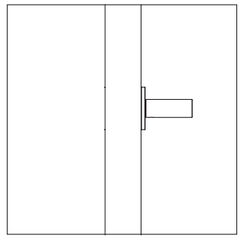
3. Install Rose

- Install fixed spindle inner-rose.



4. Fit handle

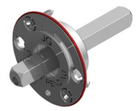
- Decorative cover rose installed.
- Lever handle installed with grub screws.



5. Fixed rose installed on one side

- Can be installed on both sides.

JG Grip Tight, Self-centring, Sprung Bearing Inner-Rose System with TIG-Welded Half Spindle to Operate A Single (Half Pair) Lever Handle



Stainless steel single sided rose with TIG welded spindle and unique rota-bearing to bring smooth, positive and flawless operation, designed for lever handles.

The unique rota-bearing sprung rose brings smooth, positive and flawless operation while addressing all the common lever handle issues. To be operated from one side of the door by the use of a single lever handle.

Common Lever Handle Half Spindle Issues:

- ✕ Handles that droop down or that are slow to return.
- ✕ Excess wobble between the handle and the rose.
- ✕ Handles that point upwards by a couple of degrees.
- ✕ Sluggish operation due to zero installation tolerance.
- ✕ Overly thick roses which are out of proportion.
- ✕ Visible fixings in some instances.

The Rota-Bearing Sprung Rose Solutions:

- ✓ Rota bearing spring to ensure a smooth and positive lever handle action.
- ✓ Firm and stable action with as much wobble as possible eliminated.
- ✓ Precise handle alignment and built in ‘stops’ that hold the handles on a perfect plane.
- ✓ Easy to install with a fitting jig available for site use.
- ✓ Slimline rose for a very attractive and subtle appearance.
- ✓ Concealed but strong bolt through fixings.
- ✓ Entirely manufactured in the UK.
- ✓ Completely maintenance free.

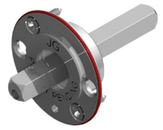
Depth of hole in door	Diameter of hole in door	Angle of movement	Bolt-through fixing position	Can be used without a latch	Sprung	Required latch spring strength for levers	Required latch spring strength for doorknobs
11mm (one side only)	30mm (one side only)	N/A	N/A	✕	✓	Any	N/A

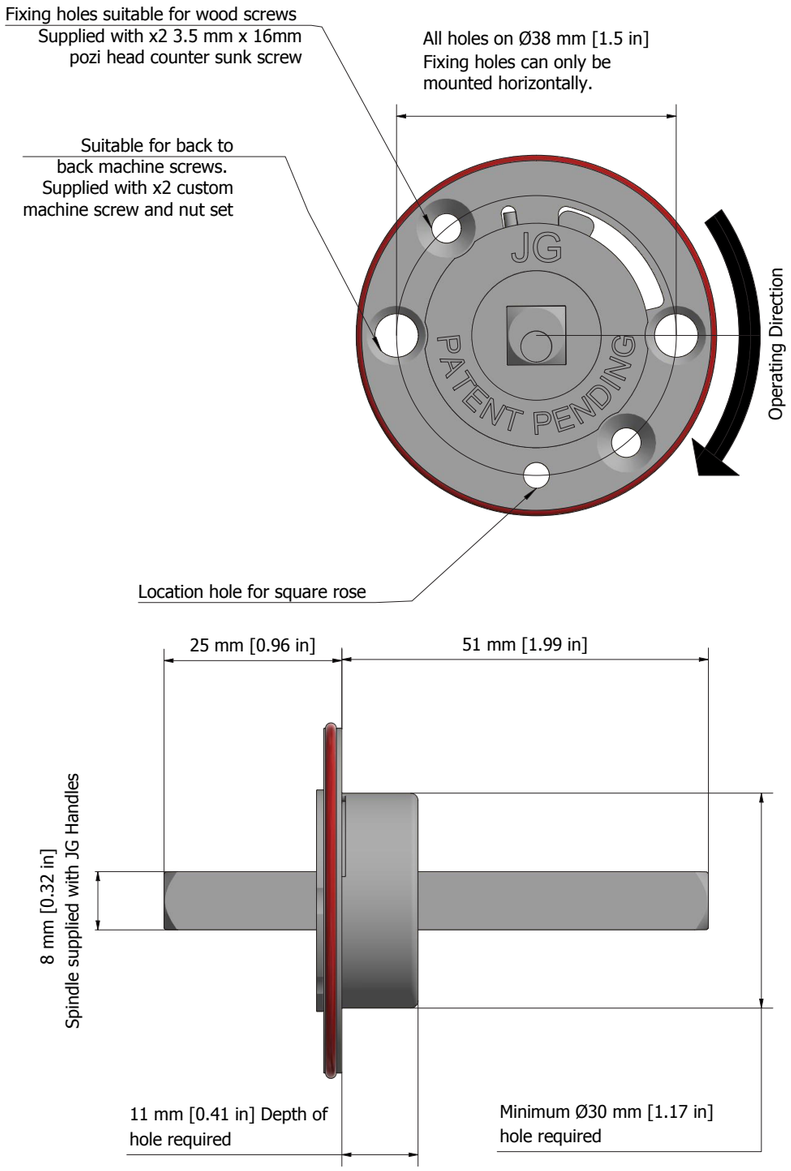
Typical application

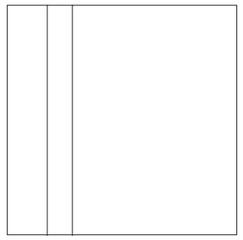
- Front entrance doors with a multipoint lock which require a single lever handle on the inside
- Areas where aesthetics and high performance are important
- Only suitable for single sided lever handle applications
- Minimum door thickness of 30mm

Example of full code: LV1045.01.HSTO-SPBEARING.BN

JG Grip Tight, Self-centring, Sprung Bearing Inner-Rose System with TIG-Welded Half Spindle to Operate A Single (Half Pair) Lever Handle

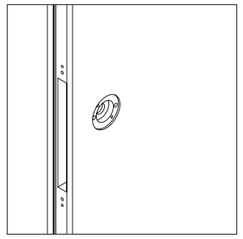






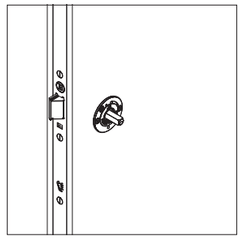
1. Section of door

- Minimum door thickness 30mm.
- Special spindle required for over 54mm when installed on both sides.
- Solid door advisable.



2. Mortice holes for latch/lock and rose

- 30mm diameter x 10.5mm deep hole for sprung rose on one side.
- Latch/lock cut out.
- Create holes for wood screws.

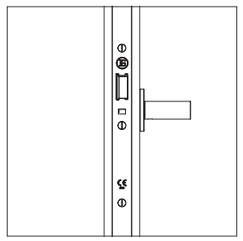


3. Install latch/lock and rose

- Install rose with wood screws.
- Install latch/lock with wood screws.

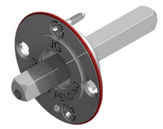
4. Fit handle

- Decorative cover rose installed.
- Lever handle installed with grub screws.



5. Sprung rose installed on one side

JG Grip Tight, Bearing Inner-rose System with TIG-Welded Spindle To Operate a Single (Half Pair) Door Knob



Stainless steel single sided rose with TIG welded spindle with bearing for smooth operation, designed for door knobs.

The bearing rose to brings smooth, positive and flawless operation while addressing all the common door knob issues. To be operated from one side of the door by the use of a single door knob.

Common Door Knob Issues:

- ✕ Excess wobble between the door knob and the rose.
- ✕ Sluggish operation due to zero installation tolerance.
- ✕ Overly thick roses which are out of proportion.
- ✕ Visible fixings in some instances.

The Bearing Rose Solutions:

- ✓ Firm and stable action with as much wobble as possible eliminated.
- ✓ Precise door knob alignment that holds the door knobs on a perfect plane.
- ✓ Easy to install with a fitting jig available for site use.
- ✓ Slimline rose for a very attractive and subtle appearance.
- ✓ Concealed but strong bolt through fixings.
- ✓ Entirely manufactured in the UK.
- ✓ Completely maintenance free.

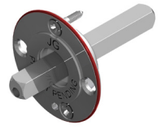
Depth of hole in door	Diameter of hole in door	Angle of movement	Bolt-through fixing position	Can be used without a latch	Sprung	Required latch spring strength for levers	Required latch spring strength for doorknobs
8mm (one side only)	30mm (one side only)	N/A	N/A	✕	✕	Any	Light

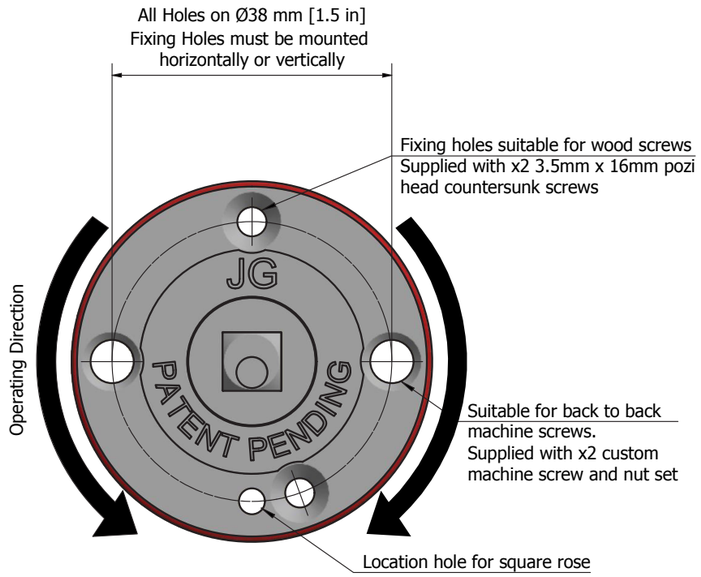
Typical application

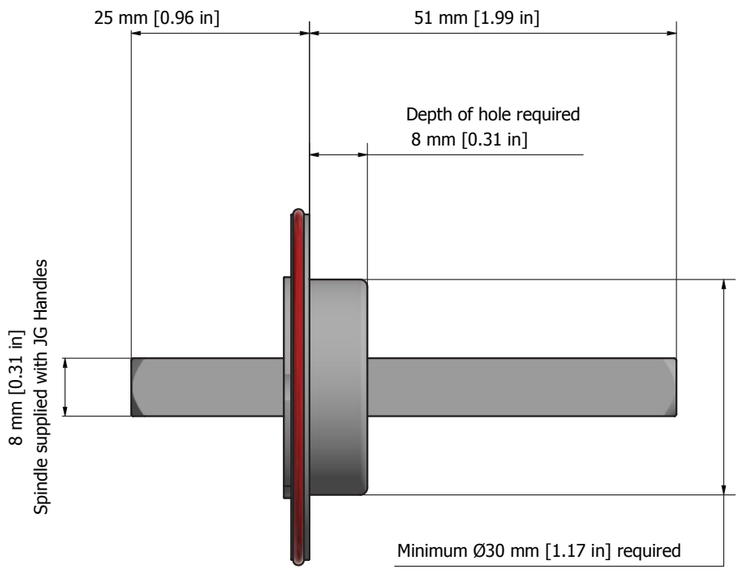
- Front entrance doors with a multipoint lock which require a single door knob on the inside
- Areas where aesthetics and high performance are important
- Only suitable for single sided door knob applications
- Minimum door thickness of 30mm

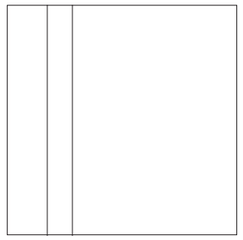
Example of full code: DK1022.01.HSTO-BEARING.BN

JG Grip Tight, Bearing Inner-rose System with TIG-Welded Spindle To Operate a Single (Half Pair) Door Knob



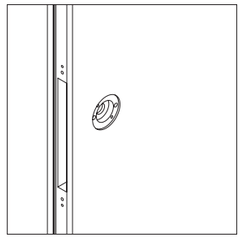






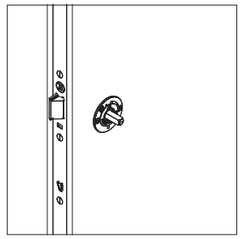
1. Section of door

- Minimum door thickness 30mm.
- Special spindle required for over 54mm when installed on both sides.
- Solid door advisable.



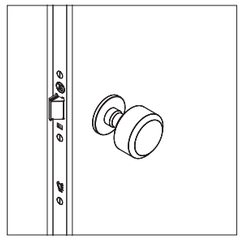
2. Mortice holes for latch/lock and rose

- 30mm diameter x 10.5mm deep hole for sprung rose on one side.
- Latch/lock cut out.
- Create holes for wood screws.



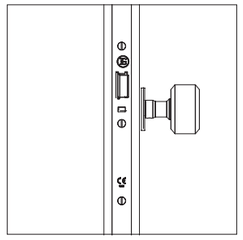
3. Install latch/lock and rose

- Install rose with wood screws.
- Install latch/lock with wood screws.



4. Fit handle

- Decorative cover rose installed.
- Door knob installed with grub screws.



5. Rose installed on one side

Rose Mechanism Technical Comparison

	Depth of hole in door	Diameter of hole in door	Angle of movement	Bolt-through fixing position	Can be used without a latch	Sprung	Required latch spring strength for levers	Required latch spring strength for doorknobs
SPBEARING	10.5mm (both sides)	30.0mm (both sides)	0 > 48°	Horizontal or vertical, 38mm c-c	×	✓	Light - Medium	N/A
BEARING	8.0mm [1] (both sides)	30.0mm (both sides)	360°	Any, 38mm c-c	×	×	Heavy	Light
BASIC	0.0mm [1] (both sides)	0.0mm [2] (both sides)	360°	Any, 38mm c-c	×	×	Heavy	Light
FIXED	6.5mm (one or both sides)	24.0mm (one or both sides)	0° (fixed)	Horizontal or vertical, 38mm c-c	✓	×	N/A	N/A
HALF-SPINDLE SPBEARING	11mm (one side only)	30mm (one side only)	N/A	N/A	×	✓	Any	N/A
HALF-SPINDLE BEARING	8mm (one side only)	30mm (one side only)	N/A	N/A	×	×	Any	Light

1. hole through the door for the 8mm square spindle is also required
2. hole through the door for the 8mm square spindle is also required
3. only when fitted as a pair

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