



Model: PC8000 Serial #: N/A	Jan. 2, 2020
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## PC8000 Operating Procedure

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The following sections apply to the Canrig Automated Power Catwalk model PC8000. These sections provide information on the proper procedure to raise and lower tubulars to/from the drill floor.



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**Safety:** The catwalk must be operated only by qualified personnel. Ensure no personnel is near the equipment before operation.

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### Caution!

- Before operating the catwalk, verify that the pipe rack hydraulic legs are properly deployed.
  - **NEVER** leave tubulars on the catwalk when the carrier is in operation. All tubulars must be on pipe racks during carrier operation. Tubulars could roll under the carrier or lift arm, causing extensive damage to the equipment.
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## Loading Tubulars to Drill Floor

The following instructions detail the proper procedure for loading the catwalk with a tubular and transporting it to the drill floor.



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**Note: NEVER** double-stack tubulars on the pipe racks, this prevents loading tubulars into the carrier using the indexers.

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1. Set the pipe stopper pin in the appropriate stopper hole so the indexer delivers one tubular at a time. The indexer should catch more than half of the tubular while it rests against the stopper pins.
2. Load the pipe racks with tubulars. The maximum capacity of each rack is 20,000 lbs (9,072 kg). Raise the tubulars on the pipe racks so the tubulars roll up against the pipe stopper pins.
3. Ensure the skate is retracted behind the tubular to be loaded.
4. Extend the opposite side safety pins to prevent tubulars from rolling past the carrier.



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- 5. Using the **OUTER INDEXER** control lever, lift one tubular at a time into the carrier. Once the tubular starts rolling, release the lever to drop the indexer. With practice, it can be anticipated how long to hold the indexer up to cause the tubular to just roll onto the carrier and drop into the trough.
- 6. When the tubular is resting in the carrier trough, use the skate to push the tubular as far forward as possible without hitting the cable protector slots on the ramp. This pushes the weight forward making it easier to lift the load.



**Note:** Maximum carrier lift capacity is 16,000 lbs (7,257 kg).

- 7. Using the **CARRIER UP** control lever, raise the carrier up to the drilling floor. The safety pins will raise automatically as the carrier lifts out of the catwalk. The carrier automatically accelerates and decelerates as it lifts. Run the carrier only as far forward out over the rig floor as necessary. It will stop automatically at mouse hole.



**Note:** There is a safety curtain laser eye on either side of the catwalk that will shut down the equipment if the beam is broken while the carrier is in motion. The carrier lift winch will not operate if there is an object on the catwalk blocking the safety curtain laser eye.

- 8. Use the skate to push the tubular farther off of the end of the carrier into the reach of the elevators.
- 9. Once the elevators have latched, the tubular can be picked up off of the carrier. Depending on the weight of tubular, the carrier can be left in place to help control the tubular as its pin end slides off of the carrier or, the carrier can be lowered slightly sooner to improve cycle time when tripping.



**Caution! DO NOT** push tubulars up the carrier as the elevators are lifting it. This will cause mechanical damage to the elevators.



**Note:** Indexers, kickers, and pipe racks will not operate when the carrier is lifted out of the catwalk or when the skate is in operation.



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## Lowering Tubulars from Drill Floor



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**Caution! Never** leave tubulars on the catwalk when the carrier is in operation. All tubulars must be on pipe racks during carrier operation. Tubulars could roll under the carrier or lift arm, causing extensive damage to the equipment.

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1. Set up the pipe racks so the tubulars roll down the racks onto the stationary racks. Remove the pipe stopper pins. If desired, remove the pipe rack outboard pins.
2. Lift the carrier up to the rig floor and extend it as far over the floor as required. For faster tripping with light pipe, position the carrier closer to the edge of the rig floor. Usually a thread protector is spun on prior to setting the tubular onto the carrier trough.
3. Make sure the skate is positioned back just behind where you anticipate releasing the tubular from the elevators.



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**Note:** When tripping out, ensure the skate supports the tubular before releasing the tubular from the elevators.

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4. Push the tubular out and set it on the carrier trough. Slowly start lowering the blocks. The bottom end of the tubular should slide down the trough as the blocks are lowered. If the tubular sticks, back the carrier up slowly to increase the angle of the tubular until it begins to slide.
5. Prior to releasing the tubular from the elevators, bring the skate forward to support the tubular so it does not slide back uncontrolled and impact the skate. This could easily damage the skate or skate winch and will significantly reduce the life of the skate cable.
6. Once the elevators have been released, retract the tubular just past the end of the carrier. Keep the tubulars, especially heavy tubulars, as close to the front end of the carrier as possible to reduce the load on the carrier lift winch when lowering.
7. Retract the carrier down the ramp to the catwalk. Once the lift arm rollers have left the pocket and the carrier is rolling back on its rear wheels, use the skate and gravity to slide the tubular back to position it over the kickers. This can be done while the carrier is traveling down.
8. When the carrier is fully lowered into the catwalk, the carrier lift winch will automatically stop and the safety pins will lower.



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9. When the tubular is properly positioned, retract the skate back away from the tubular, and then actuate the appropriate kickers to eject the tubular out of the carrier groove. Raise the inner indexers to roll the tubular onto the pipe racks.



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**Caution!** To prevent mechanical damage to the skate mechanism, **DO NOT** position the skate over the kickers.

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10. As soon as the tubular is onto the pipe racks the carrier can be lifted to retrieve the next tubular.

Refer to the product manual and contact RIGLINE 24/7™ Support if you need additional assistance.