

A large yellow and red mechanical system, the Iron Derrickman S3 Pipe-Handling System, is shown in operation. The system consists of a yellow boom with a red gripper at the end, positioned to handle a vertical pipe. The boom is mounted on a yellow lattice structure. The background is a clear blue sky.

WELL CONSTRUCTION



# Iron Derrickman<sup>®</sup> S3 Pipe-Handling System

Enables hands-free tripping of  
drillpipe and collars to maximize  
safety and efficiency



**Weatherford<sup>®</sup>**



## **Protect your workers and optimize your operations with our automated pipe-handling system**

The Weatherford Iron Derrickman S3 pipe-handling system makes tripping drillpipe and collars a safer, more efficient process. The system leverages industrial robotics—a proven manufacturing technology—to move pipe stands from the well center to programmed coordinates on the racking board. By automating the racking process, the Iron Derrickman S3 system eliminates the need to place rig personnel in a high-risk zone and reduces the potential for injury and lost-time incidents (LTI). The easy-to-operate Iron Derrickman S3 system can be installed in double and triple land rigs, jackup rigs, platforms, and barges with minimal modifications to the rig.

## Enhance rig safety

Every time derrick and floor hands manually trip pipe or make up connections, they face the risk of falling or being struck by a pipe. Our remotely operated Iron Derrickman S3 system eliminates the need for derrick hands to stand on the monkeyboard—a particularly high-risk zone—which helps keep your workers out of harm's way.

## Improve well integrity

Swinging pipe, accidental pin-stump contact, and misalignment all have the potential to cause pipe damage, which leads to drillstring instability. By providing enhanced control during loading, racking, moving, and stabbing, the Iron Derrickman S3 system helps improve well integrity and extend the life of your well by protecting your drillpipe threads from excessive wear and tear.

## Feel confident with our value-added support services

Our tubular running services team will help you configure the system to work with your particular racking board. We also offer comprehensive training on the use, maintenance, and repair of the system. And, should you require additional assistance during an operation, our technical support specialists are available 24 hours a day, 7 days a week.



# A better way to trip and rack

The innovative design of the Iron Derrickman S3 system borrows proven technology from the manufacturing floor to enhance safety and efficiency on the rig floor. The system improves on the traditional pick-and-place machine in several ways:

## Reduces potential for LTI

Safer operations are more efficient operations. The Iron Derrickman S3 system reduces the risk of worker injury by automating one of the most dangerous jobs on the rig.

## Decreases cycle durations

The Iron Derrickman S3 system enables tripping at speeds equal to or beyond what even the best-trained crews can achieve manually. And unlike your workers, the automated system resists fatigue and other human factors that can result in slow or inconsistent pipe handling.

## Provides consistency

The automated Iron Derrickman S3 system delivers consistent tripping speeds even in extreme cold and high winds. This eliminates the need for a rig shut-down in inclement weather conditions, which improves operational efficiency and reliability.

## Minimizes personnel needs

A single worker can operate the Iron Derrickman S3 system from the driller's cabin or the rig floor.

## Requires few, if any, rig modifications

The Iron Derrickman S3 system is designed to fit double or triple land rigs with minimal rig modifications, which reduces installation time. It also has a highly compact design to take up less of your valuable rig space.

## Facilitates operator training

Preprogrammed, sequential functions make the system particularly easy to use, so new operators face less of a learning curve.

## Lowers costs

Faster tripping reduces rig time, which ultimately results in lower drilling costs.

To learn more about how the Iron Derrickman S3 system can make tripping drillpipe and collars a safer, more efficient process, contact an authorized Weatherford representative, or visit [weatherford.com](http://weatherford.com).



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