

SmartCat

Catwalk machine for land operations

APPLICATIONS

Onshore drilling operations

BENEFITS

- Hands-off transportation of tubulars between ground level and the drill floor
- Fully automated operation from drillers cabin or remote control
- Handling of casing tong, stabilizers, subs, and other tools between ground level and the drill floor
- Robust design to handle rough environment
- Thread protection for casing
- Increased personnel safety from use of integrated manipulator arm
- Efficient operation and a higher level of control from full automation
- Convenience and flexibility from a wireless portable panel
- Secure and effective handling of alarms

FEATURES

- Full automation
- Ramp with pusher unit for tubular transport
- Wireless portable panel
- Integrated manipulator arm
- Casing thread protection cradle
- Priority-based alarm system
- Walking system with X-Y directional movement
- Anticollision system
- Feeding systems for drillpipe, drill collar, and casing



The SmartCat catwalk machine enables flexible operations.



SmartCat catwalk machine in parked position.

The SmartCat* catwalk machine for land operations improves safety and efficiency of transporting drillpipe, collars, casings, subs, and other equipment between the pipe rack area and the drill floor. The SmartCat machine performs fast, smooth, and more flexible operations than traditional catwalks and conveyor catwalks.

A unique design optimizes the angle of the pipe into the drill floor. Handling of objects such as stabilizers, subs, bits, and pups between ground level and the drill floor is simplified through use of an optional integrated manipulator arm.

Specifications

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|------------------------|---------------------------------|
| Voltage supply | 230 VAC, single phase, 60 Hz |
| Hydraulic consumption | 92 galUS/min [350 L/min] |
| Temperature range | -4 to 131 degF [-20 to 55 degC] |
| Tubular range | 3½ to 13¾ in [89 to 346 mm] |
| Maximum tubular range | 45 ft [14 m] |
| Maximum tubular weight | 8,000 lbm [3,629 kg] |
| Maximum pusher speed | 4.9 ft/s [1.5 m/s] |
| Manipulator arm stroke | 12.5 ft [3.80 m] |
| Base weight | 73,850 lbm [33,498 kg] |