

PipeCat FX

Catwalk delivery system with variable rig floor heights



The PipeCat™ FX delivers tubulars from the ground level to the drill floor and back. The adjustable catwalk can accommodate floor heights from 25 to 38 ft. Capable of handling Range 2 and Range 3 tubulars with diameters from 3.5 to 20 in., the tool has a lifting capacity of up to 10,000 lbs.

A modular design contributes to easy transportation. Using hydraulic operations and circuitry, the PipeCat FX offers longer duty cycle and increased reliability. Optic sensors automatically shut down operation when movement is detected, ensuring personnel safety.

Features and Benefits:

- Adjustable design reaches drill floor heights ranging from 25 to 38 ft
- Deck height under 48 in. requires no harness
- Lifts up to 10,000 lbs
- Optic sensors ensure safe operation
- Simple drill floor height adjustments
- Variable delivery points from 0 to 184 in. over drill floor
- Modular design enables easy transport
- Offered in a base model or fully kitted with HPU/walkers/wireless controls/ hydraulic support cylinder during detachment





The Pipecat FX is a hydraulically powered machine and requires a 100 HP hydraulic power unit. The default configuration will use rig hydraulics to run the machine and there is an optional on-board HPU if the rig hydraulics do not meet the required hydraulic power.

The various functions of the catwalk are controlled by a series of proportional valves which are activated via electrical solenoids. In the event of power loss the operator has the ability to maneuver the catwalk to home position via separate hydraulic controls mounted in a secure enclosure.

Control System Overview

The standard configuration will have a single board computer (SBC) as well as two in-cylinder linear transducers, one prox sensor, and a stand-alone, hard wired electrical control console (wireless controller will be offered as optional). These elements are responsible for manipulating the main sequence of operation, and slowing down the flow to the cylinders when they are near a set transducer value to ensure smooth, non-jarring operation of the machine. The sequence for bringing tubulars up to the drill floor involves the slide cylinders retracting until they reach a predetermined position and the lift cylinders will extend until they reach a certain distance, which is defined by the operator. The sequence of events is reversed for laying down tubulars.

The primary directive for this order of operations is to eliminate the operator from override capability; thereby offering consistency, efficiency and prevent down time.

The stand-alone, hard wired console will be the primary operator controls and will be located on the rig floor outside the driller's cabin. A radio frequency remote may be elected as an alternative to the hard wired, stand-alone console.

PipeCat FX	Specifications
Drill floor height range	25 to 38 ft
Working load capacity	10,000 lbs
Max tubular length	Range 3 singles
Minimum tubular length	5 ft (utility basket available)
Deck height	43.55-in.
Catwalk width	102-in.
Weight	60,000 lb
Max delivery point over drill floor	184-in.
Hydraulic pressure and max flow	5,500 psi @ 45 gal/m.
Temperature rating	-20 to +45°C
Largest pipe size	20-in.
Smallest pipe size	3-in.
Trough width	25½-in.
Optional Features	Specifications
Onboard HPU	60 gpm 100 HP
Gull wings	40,000 lb working load, 12-ft span
Walking	Four (4) walking feet integrated into skid design. No additional transport width increase.
Wireless remote	Safe area (Class 1, Div 2 available upon request)