



**TESCO®  
AUTOMATED  
CATWALKS  
(TAC)**

"HELPING OUR CUSTOMERS ACHIEVE SUPERIOR RESULTS"

# SPECIFICATIONS AND DIMENSIONS

	TAC 23	TAC 45	TAC 45T
Rig Type	Drilling / Workover / Snubbing	Drilling	Drilling
Drilling Floor Height Range*	4' to 27' (1,219 to 8,229 mm)	4' to 34' (1,219 to 10,363 mm)	6' to 36' (1,828 to 10,972 mm)
Tubular Length Max	Range II / Range III (up to 43')	Range III (up to 45')	Range III (up to 45')
Tubular OD Max	13 3/8" (340 mm)	20" (508 mm)^	20" (508 mm)^
Cycle Time	50 seconds	60 seconds	60 seconds
Transport Length	52' 2" (15,900 mm)	61' (18,593 mm)	66' 2" (20,167 mm)
Transport Width	6' 8" (2,032 mm)	8' 6" (2,591 mm)	9' 9" (2,972 mm) (Based on one set of gullwing on the ODS)
Transport Height (After removing the skate arm)	5' 2" (1,575 mm)	5' 2" (1,575 mm)	7' 2" (2,185 mm)
Total Weight of Base Unit	50,000 lbs (22,680 kg)	65,000 lbs (29,484 kg)	85,000 lbs (38,556 kg)
Working Length (Corresponds to max working height)	64' (19,507 mm)	68' (20,726 mm)	72' (21,946 mm)
Working Width (With gullwings open and only on the ODS)	16' 1" (4,902 mm)	19' 2" (5,842 mm)	20' 2" (6,147 mm)
Working Height (Max. envelope - not rig floor height)	31' 1/2" (9,462 mm)	38' 3/4" (11,601 mm)	40' 3/4" (11,652 mm)
HPU Size	75 hp	100 hp	100 hp
Power Supply 60 Hertz	480V / 600V	480V / 600V	480V / 600V
PLC System	YES	YES	YES
EX Rated Wireless Remote	YES	YES	YES
Gull Wings DS or ODS	Available	Available	Available
4,500 or 10,000 lb Winch	N/A	Available	Available
Pipe Rack Indexers DS	Available	Available	Available
Skate Tool Basket	Available	Available	Available
V-Door	N/A	Available	Available
Pony sub (2 feet)**	N/A	Available	Included

\*Maximum rig floor height may vary based on the rig configuration and catwalk placement.

\*\*A pony sub is a non-permanent structure on which the catwalk may be placed. The pony sub enables the catwalk to reach rig floors 2-feet higher than the maximum reach of the standard catwalk. This structure can be used if the catwalk needs to be moved over wellheads during pad well operations.

^24" tubular OD can be accommodated with certain operational constraints



# The best equipment in the best hands

## **TESCO® AUTOMATED CATWALKS (TAC)**

The TAC system transfers tubulars between the pipe rack and the rig floor in the safest and most controlled manner possible. It is operated wirelessly with an explosion-proof remote from the rig floor, keeping the rig crew out of harm's way.

## **TAC CONTROL SYSTEM**

Every TAC is equipped with an on-board Programmable Logic Controller (PLC), allowing the operator to move critical functions of the catwalk simultaneously. A single toggle on the remote can position the pipe precisely where it needs to be on the rig floor every time.

## **TAC APPLICATIONS**

The TAC's modular design can be configured to meet most onshore or offshore rigs. Offshore TACs can integrate to the existing HPU of the rig. Offshore TACs will need a saddle\* equipped with a force sensor to confirm the TAC is secure before delivering or receiving tubulars to and from the rig floor.

\*Saddle is required when the configuration of the rig requires extra reach for the TAC.

## FEATURES AND BENEFITS

TACs are remotely operated, allowing the operator to work from a safe distance.



FEATURES	BENEFITS
<b>Fully PLC Controlled:</b>	The catwalk's on board PLC system controls each main function when picking up and laying down tubulars. All three main functions (front arm, rear arm, trough extension) are centrally controlled by one toggle switch offering quicker trip times, because the operator no longer needs to feather the trough to its end point on the rig floor or home position.
<b>Open Belly Design:</b>	The TAC's open frame design allows for quick and effortless maintenance to the unit allowing the operator to work in a safe and comfortable environment. The open belly also offers a wide open view of the catwalk's inner system, making it simple to trouble shoot issues from outside of the frame, reducing any possible downtime.
<b>Custom Tubular Presentations:</b>	When tubulars are brought to the rig floor, the TAC can be adjusted to fit the operator's needs. When presenting the tubular to the awaiting elevators, the TAC, unlike other catwalks, offers multiple presentation options that can effortlessly be programmed using the wireless remote.
<b>No Need for Vdoor:</b>	All TACs are designed to be independent of the rig and do not require a Vdoor to operate, reducing the rig up time and integration time for initial placement on the rig, the TAC can be spotted in front of the substructure and simply plug and play. Tesco does offer custom Vdoors for customers who elect to have them, which can easily be integrated to the catwalk.
<b>Multiple Substructures with One Unit:</b>	The TAC systems, using the front scissoring arms, can reach any rig floor within the maximum height range limits of each model. This offers a huge benefit to operators as the catwalk is now a useful tool that can be used on multiple rigs, amplifying the investment.
<b>PLC Control Prolongs Life:</b>	The PLC controls the catwalk's movements, velocities and ramping into the end and home positions. Operators can expect to see longer use from the catwalk with reduced amount of maintenance and replacement parts. Less down time, more up time!

# EQUIPMENT OVERVIEW



## TAC 23

This model is designed specifically for smaller drilling rigs and snubbing rigs. Unlike the TAC 45 and TAC 45T, the TAC 23 uses only two scissoring arms yet maintains the ability to present tubulars to any rig floor at heights of up to 27 feet\*. It can be powered by a 75HP Electrical HPU and has a lifting capacity of 6,000 pounds (three tons), and can handle 13 3/8" tubulars and tubular products.



## TAC 45

The TAC 45 is the largest catwalk in Canrig's offering and is designed to be the most adaptable hydraulic catwalk system in the market. The TAC 45 utilizes four lift arms providing more strength, agility and reliability than the catwalk industry standard. Utilizing the front scissor lift arms and rear cantilever arms, the TAC 45 can present tubulars to any rig floor at heights of up to 34 feet\*. The TAC 45 has a 100HP motor, a lifting capacity of 10,000 pounds (five tons), and can handle 20" diameter tubulars and tubular products.



## TAC 45T

The TAC 45T ("T" denoting "tall") is the tallest catwalk in Canrig's offering. It was built to reach rig floors of up to 36 feet\*, while maintaining the handling and performance of the TAC 45. The TAC 45T has a deck height of six feet, which allows the trough to present tubulars to higher rig floors. It easily picks up tubulars sitting on standard four foot tall pipe racks. However, it can also be equipped with extendable indexers allowing it to reach tubulars sitting on pipe racks with a height as low as 24 inches. Another advantage is that the TAC 45T can be utilized on pad wells where the catwalk may need to walk or be skidded over other well heads that protrude up to 20".

\*Maximum rig floor height may vary based on the rig configuration and catwalk placement.

Tesco<sup>®</sup> Automated Catwalks  
are designed to achieve  
hands-free operation.



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