

SRR SWIFT

SPECIFICATIONS



Automation

Prostar is the world's first proven automated well servicing company. Based in the heart of Alberta's oil industry, Prostar is producing service rigs that solve some of the most challenging problems for oil producers. We have developed service rigs that can be entirely run by touch screen and joystick pannels controlled by a single operator using our engineering know-how.

Safety & Competent Employees

Thanks to its rig technology and ability to attract top talent, the SRR SWIFT rigs have the industry's leading safety record. Our efforts to engineer and eliminate hazards have eliminated many fatalities and severe injury potentials from our client's sites.

Today's oil and gas industry can not attract the necessary workforce to meet activity levels. As this issue grows, Prostar will rely on competitive wages, the draw of technology, worker safety, and comforts to ensure our clients have the industry's top talent.



SRR SWIFT RIG ADVANTAGES:

Push & Rotate Pipe

Prostar's tool carriage can push or rotate which allows for many niche advantages. Horizontal wells or setting tools is no longer a challenge.

Patented Top Drive

Prostar's 100-ton top drive with auto-drill programming, makes fast work of cement, frac plugs and any other milling and drilling tasks.

PRESS Well Control

A shut-in system for the tubing during a kick. Greatly reduce the risks to workers and the environment especially on thermal or H2S sites.

Pipe Handling Automation

Automated tongs, pipe grabber, bails, elevators, cat-walk and pipe racks mean that no worker has to touch pipe and risk hand crush injuries.

Doing Business with Prostar

Prostar Energy controls the execution of all aspects of the proposal, design, client pricing, field implementation, well service work and continuous improvements. Our team is excited to help solve your company's unique challenges while providing mature safety systems, support, and the qualified labour your organization demands. Please reach out to us to find out more, inquire about using our rigs, or come to see our rigs in action.

SWIFT RIG

Layout

01 SRR 150/200 SWIFT RIGS

The SWIFT rigs are built on a Western Star 4900TS Chassis with a Detroit DD16 - 600 HP Engine, Allison 4700 OFS 7-speed auto transmission, and a Namco 600 HP splitter box. Its stabilizing jacks and mast raising cylinder are wirelessly operated for the industry's safest rig-up procedure.

02 SST-100 Top Drive

The rig comes equipped with a 100-ton top drive with a hoisting capacity that matches the mast. (200,000 lbs). The power swivel operates at 150 RPM maximum speed and 7,500 ft-lbs and is capable of managing a wide range of tubing sizes.

03 Automated Power Tong

The AWP-15 automates the pipe handling process and provides monitored and recorded torque readings for pipe ranging between 1.66" to 5.5". The max torque is 15,000 lb-ft and is powered and controlled by the rig's control system.



04 Crew-Change Unit & Office

The trailer has a rig manager office, rig data readouts, toilet facility, crew change area and 100 kW diesel generator. The generator runs LED rig, pump, tank, and crew change unit lighting. Units with a Class III accumulator are also available.

05 R3R Hydraulic Tiering Catwalk

Prostar's range III pipe handler has an, extendable v-door, controls integrated into the rigs control system, hydraulic tiering pipe racks, and a push button loading system for pipe. The unit is trailerized and is hauled by a king pin hitch and crew truck.

06 SWIFT Work Floor

Rig floor can be hydraulically positioned between 5' to 16" with two egress paths. It allows for pipe laydown on both sides, has crown-mounted winches (gives 360-degree coverage for rigging in equipment), and prefabs for blocking wind.

07 Operator's Cab

Heated operators cab has full visibility of the rig's working floor, catwalk and tool carrier. Touchscreens and joysticks allow the operator to function the rig, bop, catwalk, data collection, fail safes, and pump systems.



Three pump and tank options can be paired with the SWIFT:

1. Prostar's Hooklift Pump and Tank System

The hooklift system safely places the skid tank on the truck bed for legal road transport. Trucks have Gardner Denver TEED Mud Pump, hydraulically actuated manifold (for control at the rig), 35 m3 tank, lighting, digital tank level and pump rate readouts.

2. Prostar's Pump House and Trailer Tank

In-field applications can be supplied with an enclosed pump house (for winter heating and tool storage) as well as trailer tank that can be moved site to site with 25 m3 of fluid.

3. Drilling Rig Pump and Tank

If either of the above doesn't work, Prostar can line up drilling rig pump and tank systems to use with our built-in top drive.

Other Optional Equipment:

1. Continuous Rod Gripper and Rod BOP

At the client's request, Prostar can dispatch an open-faced rod gripper that suspends from the tool carrier with a 38,000 lb pull capacity. We also supply an integrated rod guide (installed in rig mast), BOP, stripper, and handling equipment for rod sizes 2e to 8.5R.

2. Picker Truck

Prostar provides a tandem drive Freightliner M2106 (Cummins L9 diesel & Alison 3500 RDS automatic transmission). The truck is outfitted with a Hiab model 218B-3 articulating crane and a custom deck for equipment storage.

SRR 150 / 200 SWIFT

SPECIFICATIONS AND DIMENSIONS

		Specification or Dimension	Imperial	Metric
Service Rig	Transport	Overall Length	70'	21.2 m
		Overall Width	126"	3.2 m
		Overall Height (Not Including Tool Carrier)	16.5'	5 m
		Overall Height (Including Tool Carrier)	17' 3"	5.3 m
		Deck Height	60"	1.5 m
		Deck Width	120"	3.0 m
		Deck Length	30'	9.1 m
		GVW - Fully Loaded with Co-Rod, Tool Carrier and Tong	114,640 lbs	52,000 kg
	Wheel Base	28' 10"	8.8 m	
	Operational	Overall Length (Front Bumper to Well Center)	52'	15.8 m
Overall Width (Including Outriggers)		21'	6.4 m	
Derrick Height (Ground to Beacon Light)		77' 6"	23.6 m	
Deck Width		120"	3.0 m	
Deck Length		30'	9.1 m	
Setback from Well		3'	0.91 m	
Specifications	Max Pull Load (For SRR 150 SWIFT)	150,000 lbs	66,700 daN	
	Max Pull Load (For SRR 200 SWIFT)	200,000 lbs	89,000 daN	
	Max Push Load (Max Chassis Weight)	30,000 lbs	13,300 daN	
	Max Elevator Height (72" Links)	60' 10"	18.25 m	
	Floor Height Range	5' to 16'	3.6 m to 6.7 m	
	Max Carriage Speed	5'/sec	1.5 m/sec	
	Included Pipe Size Handling	1.66" to 5.5"	42 mm to 139.7 mm	
	Max Wind Load for Full Rated Capacity	37 m/hr	59 km/hr	
	Tugger Winch (Dual Winches Mounted at Crown)	4500 lbs	2000 daN	
	API Compliance Transport Canada	Tool Carrier & Swivel 8C Accordance National Safety Mark		
R3R Trailer Power Catwalk	Dimensions	Overall Length (Kingpin to Bumper)	50' 6"	15.5 m
		Overall Width (Transport)	102.5"	2.6 m
		Height (Transport)	86"	2.18 m
		Trailer Weight	25,000 lbs	11,365 kg
		Deck Height	47"	1.2 m
		Max V-Door Height (Operation)	22'	6.7 m
		Max Pipe Length	45'	13.7 m
		Max Pipe OD	11"	279 mm
		Max Tubular Weight	2000 lbs	900 kg
		Pipe Rack Capacity	30,000 lbs	13,600 kg
Well Site Trailer	Dimensions	Overall Length	40'	9.1 m
		Overall Width	102"	2.6 m
		Overall Height	13' 6"	4.1 m
		GVWR (Estimated Max)	40,000 lbs	18,150 kg
		Wheel Base (Estimate)	25'	7.6 m
Pump & Tank	Specifications	Max Flow Rate @ 3500 PSI	245 gpm	0.93 m3/min
		Max Pressure (Based on Piston Size)	3500 to 10,000 psi	24 to 69 mPa
		Max HP	165 HP	123 kW
		Tank Volume (Static)	294 US bbl	35 m3
		Tank Volume (Dynamic)	210 US bbl	25 m3