

AIRLESS SOLUTION FOR IRRIGATION

SHARK WHEEL SWIFT



USER GUIDE



ADVANTAGES

AIRLESS. RUTTING SOLVED

- ✓ Airless
- ✓ Rutting Solved
- ✓ Modular Design
- ✓ Flexing/Compliant Paddles
- ✓ 60 Second Field Repairs
- ✓ Best-in-Industry Performance
- ✓ DNA Footprint - Pushes Soil Toward Center



SWIFT

IRRIGATION WHEEL

The Shark Wheel is the world's only sinusoidal wheel and has University and real-world proven scientific advantages compared to the

- ✓ CENTER PIVOT IRRIGATION
- ✓ LATERAL MOVE IRRIGATION
- ✗ SWING ARM*



*Testing has not been thoroughly conducted for swing arm performance. The warranty does not cover swing arm installation and is to be used at the farmer's discretion and liability



TRACTION

Sufficient bite with bi-directional tread pattern allows the wheel to work equally well in both directions



PRICE

Priced lower than other airless tire designs with a significant rutting advantage



COMPLIANT

The paddles flex to absorb load and increase surface area to minimize drivetrain failures



MODULAR DESIGN

60 second fixes in field if any modular paddles break



AIRLESS

Airless tire that can never go flat

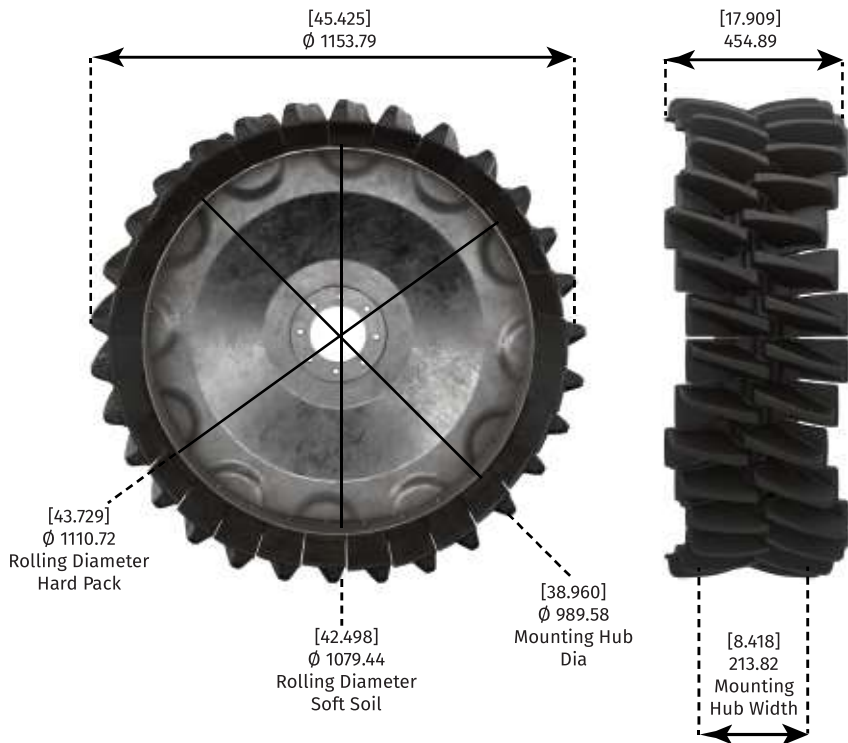


MINIMIZE RUTTING

Least amount of rutting in the industry. The out-of-phase wheels push soil toward center unlike a traditional wheel

The Shark Wheel's SWIFT (Sine Wave Innovative and Flotation Traction wheel) has shown best-in-industry performance in center pivot irrigation for rutting performance. A recent test saw an industrial leading wheel dig a 14" deep rut compared to a Shark Wheel's 1" rut

WHEEL DIMENSIONS



Crops sometimes grow in Shark Wheel's tracks and Shark Wheels leave substantially less of a berm. The sweeping motion of the wheel reduces soil compaction

MODULAR PADDLE DESIGN



Flexing of the paddles increases surface area and reduces stress on the drivetrain

- 1 Paddles are comprised of spring steel with overmolded rubber. They were modeled after a seagull's wings in flight
- 2 Your Shark Wheel SWIFT may come assembled except for 3 paddles. Use the 2 included bolts to easily assemble the remaining paddles
- 3 The wheel is hot dip galvanized steel and is made specifically for the Shark Wheel paddles. The custom wheel design supports the sine wave shape and has a custom sine wave hole configuration

WHEEL OPTIONS

If your field has difficult soil, consider choosing the high traction option. Distributors can order replacement High Traction Paddles to have on hand for farmers with challenging soils/gumbos

OPTION 1



**STANDARD WHEEL
OPTION**

Wheels will arrive mostly assembled. Roughly 3 paddles may have to be assembled to complete assembly

OPTION 2



**HIGH TRACTION WHEEL
ELEVATED PADDLES**



All paddles can be removed or installed rather simply



*Turquoise color paddles shown for illustration purposes only



TESTED EXTENSIVELY PROVEN PERFORMANCE

Shark Wheel is a 3-time National Science Foundation award winner and has been thoroughly tested with industry leaders for 4 years

BEST-IN-INDUSTRY tracking. Significantly reduced ruts with an airless, modular flexing design

✓ 55% LESS RUTS*

✓ 100% LESS
FLAT TIRES

**Based on 4 years of data*

WARRANTY
LIMITED



For full information on warranty please visit SharkWheelAG.com



ROLLING RADIUS SETUP

- Rolling Circumference 140"
- Wheels come pre-assembled minus 3 paddles
- Make sure to clock your last tower setup according to Shark Wheel's 140" rolling circumference
- No need to change anything for other towers



NO SWING ARM INSTALLATION

Testing has not been thoroughly conducted for swing arm performance. The warranty does not cover swing arm installation and is to be used at the farmer's discretion and liability



DNA Footprint
Proper Alignment

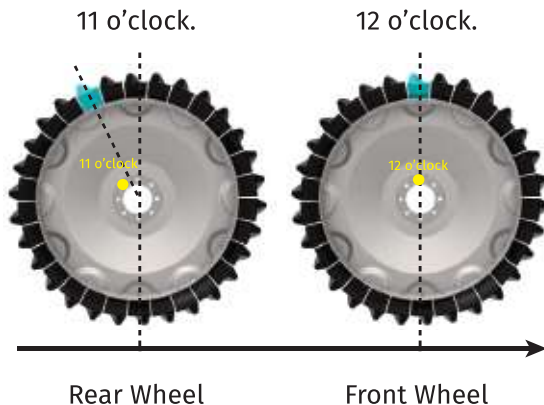
Improper Alignment

PROPER INSTALLATION FOR BEST PERFORMANCE

IMPORTANT!

Ideally, install the Shark Wheel SWIFT where the Front Wheel is installed at 12 o'clock and the Rear Wheel is installed at 11 o'clock. **This will ensure best performance with a DNA helix footprint left in the soil**

Most test farms did not install correctly and test data still showed best-in-industry performance. Installing at 12 o'clock and 11 o'clock is ideal, but not essential





VALLEY



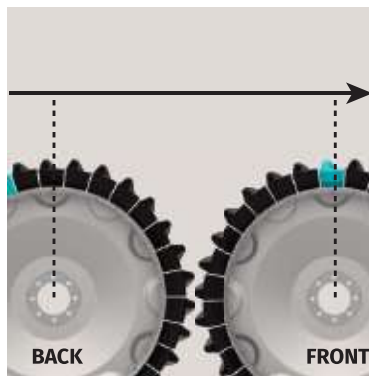
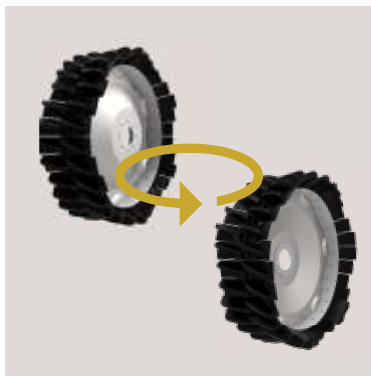
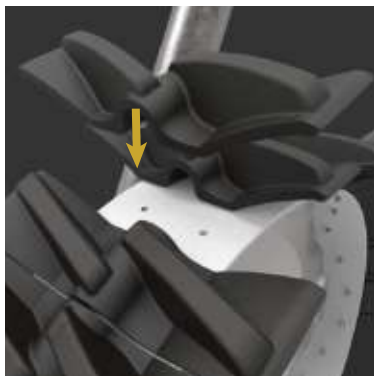
REINKE



ZIMMATIC



T-L



STEP 1 REPLACE PADDLE

Assemble any remaining paddles if necessary with the two included bolts with torque of 41-51NM

STEP 2 INSTALL WHEEL

Shark Wheels fit all pivots. Depending if your machine is Valley or Reinke/Zimmatic/T-L etc. just flip the wheel according to your machine

Follow the OEM instructions for wheel mounting

STEP 3 ALIGNMENT

Install wheels as directed on the previous page if possible (not required)*

**Installation during 4 years of testing that differed from the recommended installation still resulted in best-in-industry rutting performance. This installation is recommended for optimal performance, but not required*

INSTALLATION GUIDE

IMPORTANT 
FOR T-L
SYSTEMS
EXTRA SPACER
REQUIRED

T-L machines require a spacer that can be purchased directly through T-L Irrigation

Please contact T-L at
402-462-4128 ext 232