

TRANSLAND NEWSLETTER

WINTER 2023

TRANSLAND

DISPERSAL EQUIPMENT FOR PRECISION APPLICATIONS

SATLOC

CP NOZZLES

ACCU-FLO
NOZZLE

Transland Spreader
PN 23537

WHAT'S INSIDE?



Comparison of
Falcon &
Falcon Pro



Accu-Flo™ GPM Chart



Electric Gate &
Electric Wingman



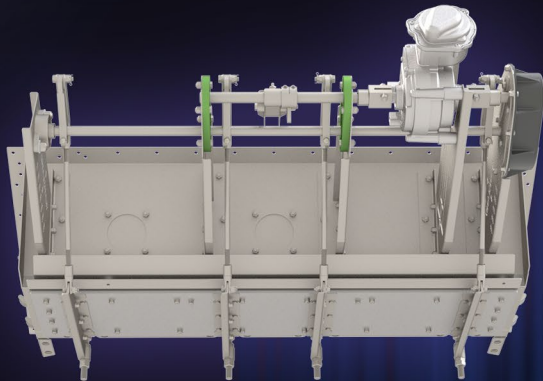
Ian McVay
Allied Industry
Individual Award



DEPENDABLE EQUIPMENT

IT'S ELECTRIC

INTRODUCING TRANSLAND'S TOTAL ELECTRIC LINE

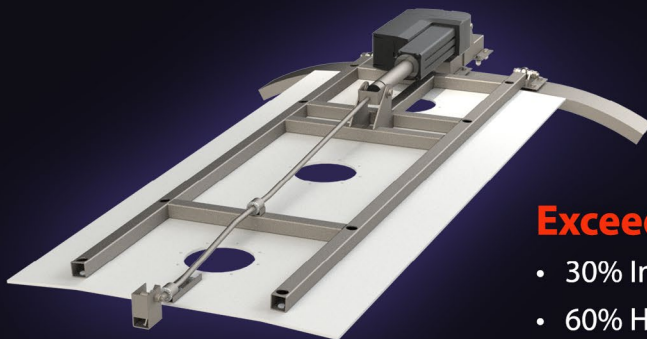


ELECTRIC GATE BOX

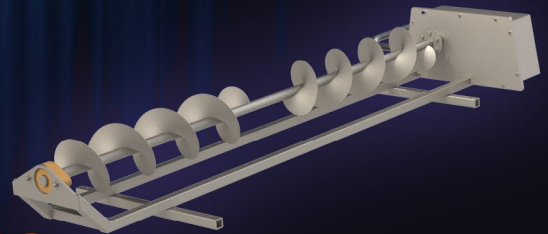


For Air Tractor & Thrush Aircraft with 5" & 7 1/2" Doors

- Totally Operated by the Satloc Controller—No Extra Screens
- 1/32" Door Accuracy (for Dry Applications)
- Door Speed Adjustable
- Kits to Mount and Convert TC 5" Manual Gate



ELECTRIC WINGMAN



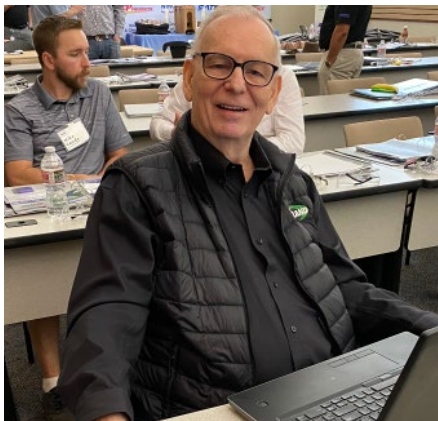
Exceeds Current Hydraulic Wingman Efficiency

- 30% Increase in Auger Speed Over the Current Wingman
- 60% Higher Torque Over the Current Wingman
- Designed for all Current Wingman Styles with more in Development

www.translandllc.com

Dependable Equipment

ALLIED INDUSTRY INDIVIDUAL AWARD



We are proud of Ian McVay for being awarded the Allied Industry Individual Award for the ag aviation industry. This prestigious award is given to an NAAA member whose significant efforts have benefited the allied industry and the aerial application industry.

Since 1979, Ian has been one of the pioneers of incorporating many now standard features in the agricultural aerial industry. He developed gate controllers, flow controllers, guidance

systems, and GPS systems for aerial application systems. Ian is also one of the first individuals to design an automatic aerial flow system.

During the 1980s Ian and his fellow employees at Del Norte Technology, Inc. in Dallas, TX, were instrumental during the design of the first ever airborne ag guidance system.

Also, during the 1990s, Ian assisted the team in designing the first GPS flight logging system. In addition, Ian was the team leader and developer for the automatic IntelliFlow system. Shortly after that, they created the first automatic boom (Spray OFF) system for the ag aviation market, along with a four (4) window SuperTrac lightbar.

From 1980 to 2020, Ian had the privilege to install GPS systems and train hundreds of pilots, many times introducing for the first time the electronic airborne guidance systems into many countries worldwide.

One of the most impactful contributions Ian made along with the team was the software code development for the Satloc GPS G4 and Bantam Systems, along with the Pre-Post data analysis software called MapStar.

The Satloc G4 introduced a high-quality and rugged system. More than any other preceding GPS ag system, the G4 allowed pilots to benefit from a faster, more advanced, and fully featured system. This was partly due to the improved operating systems, added connectivity, and enhanced flexible computer coding. Ian always gives credit to the team of programmers he had the privilege of working with on the GPS software. The success of the Satloc G4 was always due to good teamwork and Ian's contribution to the AirTrac and IntelliTrac applications.

CONGRATULATIONS, Ian. We are so proud of you and your accomplishments.

TRANSLAND DEALER MEETING



Transland's Annual Dealer Meeting consisted of training the dealers on installing Satloc Falcon and using it. One great benefit from the start for the pilots is the How-To videos that will be available on Satloc's YouTube channel. Video topics include how-to setup hot keys, booms, flow control, pins, and lightbar. Needless to say, Transland is excited about Satloc Falcon's launch.

As well as training on Satloc Falcon, dealers learned about Transland manufacturing electric gates and electric Wingmans. Transland's electric gate box brings the ruggedness and

durability that our gates are known for, plus it meets modern-day electric actuation control. The electric gate box integrates an electric actuator with the Satloc controller, which means there only needs to be one screen in the cockpit. In addition, reducing the components reduces the total weight and complexity of the system.

The electric Wingman fits right into the total electric concept. Our engineers exceeded the goal of improving the performance of the electric Wingman over the current Wingman by a 30% increase in auger speed and a 60% higher torque in the electric Wingman over the hydraulic Wingman design. Transland plans to obtain STCs for the electric gate box and electric Wingman.

A tour of the facilities spotlighted the expanded area for Transland's research and development. This larger space allows the engineers to gain a better understanding and insights into the products. A few goals of this area are to improve existing products, create other

products that help aerial applicators become more efficient, and reduce costs for people in the industry.

Back in the training room, other sessions included Transland's boom shut-off (50%, 60% and right-hand shut-off), Meterate, and hydraulic electric gate boxes. Many people might not know that Transland is adding more instructional information to its different websites— www.translandllc.com, www.satloc.com, and www.cpnuzzles.com. Please note that Transland is incorporating all its nozzle lines into one website. Resources on the website include calculation tools for Accu-Flo nozzles, CP nozzles, and the Tri-Set nozzle. Charts are also available for the nozzles.





Accu-Flo™ GPM Chart*

Using ACCU-FLO Internal Check Valve For Liters Per Minute x 3.785

*Based on one nozzle on test stand. (Spraying Systems #8360 and #8355 Check Valve will yield slightly higher volume.)

.016-40 TUBE ACCU-FLO RADIAL NOZZLE				
	20 PSI	25 PSI	30 PSI	35 PSI
NO RESTRICTOR	0.39	0.52	0.63	0.73
3/16" RESTRICTOR	0.37	0.50	0.59	0.70
1/8" RESTRICTOR	0.32	0.45	0.56	0.65
3/32" RESTRICTOR	0.32	0.40	0.50	0.58

.016-76 TUBE ACCU-FLO RADIAL NOZZLE			
	20 PSI	30 PSI	40 PSI
NO RESTRICTOR	0.63	1.16	1.37
3/16"	0.49	0.95	1.31
1/8" RESTRICTOR	0.40	0.80	1.00

.020-40 TUBE ACCU-FLO RADIAL NOZZLE			
	20 PSI	25 PSI	30 PSI
NO RESTRICTOR	0.46	0.67	0.80
3/16"	0.45	0.63	0.78
1/8" RESTRICTOR	0.42	0.57	0.75

.020-48 TUBE ACCU-FLO RADIAL NOZZLE			
	20 PSI	25 PSI	30 PSI
NO RESTRICTOR	0.62	0.90	1.12
3/16"	0.57	0.85	1.05
1/8" RESTRICTOR	0.53	0.74	0.88

.020-64 TUBE ACCU-FLO RADIAL NOZZLE				
	20 PSI	25 PSI	30 PSI	40 PSI
NO RESTRICTOR	0.71	1.06	1.37	1.80
3/16" RESTRICTOR	0.63	0.95	1.19	1.61
1/8" RESTRICTOR	0.54	0.77	0.96	1.28
3/32" RESTRICTOR	0.42	0.59	0.71	0.97

.028-32 TUBE ACCU-FLO RADIAL NOZZLE				
	20 PSI	25 PSI	30 PSI	35 PSI
NO RESTRICTOR	0.32	0.79	1.16	1.37
1/8" RESTRICTOR	0.21	0.69	0.90	1.10
3/32" RESTRICTOR	---	0.48	0.63	0.79

.028-64 TUBE ACCU-FLO RADIAL NOZZLE				
	20 PSI	25 PSI	30 PSI	35 PSI
NO RESTRICTOR	1.20	2.00	2.60	
3/16" RESTRICTOR	0.90	1.70	2.00	
1/8" RESTRICTOR	0.76	1.15	1.30	

.033-48 TUBE ACCU-FLO RADIAL NOZZLE				
	20	25 PSI	30 PSI	35 PSI
NO RESTRICTOR	1.23	1.69	2.11	2.38
3/16" RESTRICTOR	1.05	1.42	1.72	2.01
1/8" RESTRICTOR	---	1.00	1.19	1.42

.047-16 TUBE ACCU-FLO RADIAL NOZZLE			
	20 PSI	25 PSI	30 PSI
NO RESTRICTOR	1.00	1.60	2.00
3/16" RESTRICTOR	0.85	1.37	1.70
1/8" RESTRICTOR	0.74	1.00	1.18

.047-24 TUBE ACCU-FLO RADIAL NOZZLE				
	20	25 PSI	30 PSI	35 PSI
NO RESTRICTOR	1.30	2.00	2.30	2.60
3/16"RESTRICTOR	1.10	1.50	1.90	2.30
1/8" RESTRICTOR	0.73	1.10	1.40	1.70

.063-16 TUBE ACCU-FLO RADIAL NOZZLE				
	20 PSI	25 PSI	30 PSI	
NO RESTRICTOR	1.50	2.60	3.40	
3/16" RESTRICTOR	1.20	1.90	2.40	
1/8" RESTRICTOR	.75	1.00	1.40	

.085-16 TUBE ACCU-FLO RADIAL NOZZLE				
	20 PSI	25 PSI	30 PSI	
NO RESTRICTOR	2.19	3.40	4.19	
3/16" RESTRICTOR	1.40	2.00	2.50	
1/8" RESTRICTOR	.95	1.20	1.43	



Make a **Choice** for the system that Best Fits You

SATLOC

Guidance. Control. Software. Service.

System DESCRIPTION November 11, 2022	<i>SATLOC</i> FALCON	<i>SATLOC</i> FALCON <i>PRO</i>
CPU with 2 Mounting Options	✓	✓
ADS-B In	✓	✓
7" Screen	✓	✓
9" Screen	✓	✓
Hard Drive	256 GB	512 GB
Multi-Language (English, Spanish, Portuguese)	✓	✓
Built In WiFi Connection	✓	✓
Flight Modes	Application, Navigation, To Poly	Application, Navigation, To Poly, Take-Off, Hopper Fill, Meterate & Others
Real Time Background Maps	✓	✓
Offline Background Maps Connection (Additional Charges May Apply)	✓	✓
Ag Laser Connection (Plug & Fly)	✓	✓
Shape File Support	✓	✓
Cloud 3rd Party Connections	✓	✓
Satloc Cloud Connection	✓	One Year Free of Satloc Cloud
Across Fleet Data Sharing (Must be Connected Online)	✓	✓
PMAP's	Unlock Required — \$	✓
Auto Dispersal (Formerly Spray Off)	Unlock Required — \$	✓
Boom Control Input w/Enhanced Patterns	Unlock Required — \$	✓
Controls & Monitors 4 Valves		✓
Cockpit Encoder	Single for L8 Dimming	Dual with Button for Multi-Function
Dry Controller / Variable Rate		✓
Transland Meterate		✓
Top Hat Control Inputs (Additional Hardware Required)		✓
External CAN		✓
Flow Meter Input		✓
Inertial Measurement Unit (IMU)		✓
Integrated AIMMS Capability		Optional Upgrade

SATLOC FALCON

SATLOC FALCON PRO

Integrated
ADS-B In
Standard in
All Falcons
(No Fee)

7" or 9"
Touchscreen
Multi-Function
Display

Built-In
WiFi
Connection

Setup
Wizard

Flight
Modes



Wireless File
Transfer

Realtime
DAAM®
Connection
(optional)

Integrated
AIMMS
[capability
with Pro]

Serial/CAN
for 3rd Party
Connection

Combined and
Integrated with
IntelliFlow 1, 2, and 3
(Wet/Dry/Granular)

Prescription
Maps/Variable Rate
Liquid & Dry
[With Pro]
[Unlock on Falcon]

2
Mounting
Options

AG
Laser
Connection

Controls
and/or Monitors 4
Boom Valves
[with Pro]

Enhanced
Patterns
with boom control

Shape
File Support

Background
Maps