

Ayres 600 Thrush



It's the plane that wrote its own chapter in the history of ag aviation. 400 gallons long and 600 horsepower strong, Thrush is still recognized as the workhorse of the industry. Now the aircraft has been further refined to improve efficiency and performance.

Maybe there's a bit of history in your future.



Thrush...Built Tough,

for safety and maximum performance.

Rugged Structure

Thrush yields to no competitor on structural features. Key examples include full cantilever wing, with massive main spar and all metal construction to resist fatigue and corrosion, rugged heli-arc welded 4130 steel truss fuselage, stainless steel belly skins and alclad aluminum top and side panels, cockpit roll cage (designed to withstand high G overturn impact) and a tough fiberglass cockpit canopy. Other examples are the wide-stance landing gear capable of absorbing full-capacity loads on short or rough strips.

Simplified Systems

Simplicity - another key requirement with ag aircraft - a point where Thrush wins high marks. Refined, simplified systems make it a superior aircraft to own, operate and maintain. Check the straightforward, pilot-oriented cockpit arrangement, the simple, responsive control systems, and the interconnected simple-to-manage fuel system, to name a few examples. A simple ag aircraft makes life easier for everyone concerned, so we've kept working to design simplicity into the Thrush.

Low Maintenance

A key result of Thrush simplicity is basic, yet important: minimum maintenance requirements. Thrush maintenance ease is demonstrated in its universal dispersal system, easy interchange between application systems, and designed-in service accessibility of engines and systems. Plus, the speed and ease with which Thrush strips down for cleaning and maintenance.



Corrosion-Treated Parts

While Thrush is helping you realize increased profits, you can be confident of its capability to do so year after year. Another key enduring value is corrosion-proofing of all detail parts prior to assembly. Even the interiors of removable skins are protected against the harsh ag aviation environment. Add extensive corrosion-proofing to other key characteristics - rugged structure, simplicity, outstanding maintenance ease - and you've written the formula for a profit-oriented ag aircraft.

It's the formula Ayres will follow in building Thrushes in the years to come.

RESPONSIVE SERVICE, SOLID SUPPORT:

Ayres Corporation's commitment to customer satisfaction. There's one more aspect to the proven formula the Ayres Thrush offers. In short, it's our comprehensive approach to customer service, support...and satisfaction.

Ayres Corporation knows of no business that calls for more responsive support than ag aviation. That's why behind every Thrush there's a trained and well-equipped team of dealers and technical representatives.

Response to service requirements is equally outstanding. Ayres Corporation and its dealers are ready, when and where you need us, to keep your Thrush producing.

All told, we think ours is a sound package. Thrush and Turbo Thrush, the profit machines, plus the full resources of a first-rate organization,



Get down to business, and get a firsthand look at the Thrush soon...

New High Performance 600 Thrush

New Lightweight Fuselage

The newly designed fuselage of the Thrush is designed to handle the demanding loads of ag aviation without sacrificing performance.

Long Wingspan & Wide Chord for Increased Performance

The wing span of 47' 6" gives the Thrush a wing area of 350 sq. ft. This allows The Thrush to carry larger loads without the use of flaps or other devices during turns.

Aerodynamic Wing Root Fairings

Wing Root Fairings increase performance, and seal the wing from unwanted chemicals.

Superior Spray Pattern.

The wide chord wing and spray boom placement give the Thrush a superior spray pattern while reducing drift.

Aileron Servos

The aileron servos give the 600 Thrush a balanced feel without the loss of stability that the Thrush is known for. In addition, reduces pilot work load and enhances safety.

Engine Speed Ring

The engine speed ring increases speed and smooths air flow over the empennage.

Rugged Three Point Landing Gear

Landing loads are dispersed into three points in the fuselage giving the Thrush a trouble free landing gear system able to handle the larger loads.



Thrush...The only choice.

STANDARD EQUIPMENT

- Pratt & Whitney R1340 (600 H.P.) Engine
- Constant-Speed Hamilton Standard 12D40 Propeller with New EAC AG100-2 Blades
- 400 Gallon (53 Cubic Foot) Clear-vision Fiberglass Hopper
- 136 Gallon Fuel Capacity
- Universal Spray System with External 2-inch Stainless Steel Plumbing
- 2-inch Transland Pump
- Four Blade Adjustable Weath-Aero Fan Assy.
- Streamlined Spray Booms with 68 Nozzles Installed
- 3 inch Left Side Loader
- 24 Volt Electrical System
- 24 Volt Battery
- 50 Ampere Alternator
- Electric Starter
- Ground Start Receptacle
- Navigation and Instrument Lights
- Wingtip Strobe Lights
- 29 inch High Flotation Tires & Wheels
- Cleveland 4-Piston Disc Brakes
- 5:00x5 Tail Wheel Assembly
- Steel Tail Wheel Spring

- Windshield Wiper & Washer
- Polyurethane Finish on All Exterior Metal Surfaces
- All Aluminum Surfaces Etched with Chromicoat L25 for Corrosion Resistance
- Sealed Cockpit Enclosure
- Quick Detach Fuselage Skins
- Stainless Steel Bottom Fuselage Skins
- Massive Overturn Structure
- 4130 Chrome-moly Tubular Steel Fuselage Construction
- 4130 Chrome-moly Steel Upper and Lower Steel Spar Caps
- Adjustable Mesh (cool) Seat
- Adjustable Rudder Pedals
- Stainless Steel Rudder Cables
- Wire Cutters on Main Landing Gear
- Cockpit Wire Deflector
- Wire Deflector Cable (Canopy to Vertical Fin)
- Wing Root Seals & Fairing
- Upper and Lower Hopper Windows
- All Metal Empennage
- Aileron Servo Tabs
- Speed Ring

OPTIONAL EQUIPMENT

- Ferry Fuel System
- 228 Gallon Fuel System
- Custom Paint Scheme
- Cockpit Fire Extinguisher
- Cockpit Map Light
- Agitator Installation
- AU5000 Micronair Installation
- Automatic Flagman Installation
- Fire Bomber Installation
- Smoker Installation
- Crop Hawk Elow Meter
- 5 Blade Weath Aero Fan Assembly
- Micronair Application Monitor
- Transland Stainless Steel Spreader
- Electric Fan Brake with 2 Blade Pump Fan
- Electric Fan Brake with 111F Fan
- Hopper Rinse System (20 gal.)
- Landing Lights
- Night Working Lights
- Hopper Level Indicator
- Avionics & Instrument Installation

SPECIFICATIONS AND PERFORMANCE DATA

• Fuel Capacity	136 Gallons	515 Liters
• Empty Weight	4,250 Pounds	1,928 Kilograms
• Typical Operating Wt	8,000 Pounds	3,629 Kilograms
• Hopper Capacity		
	(Dry)	53 Cu. Feet 1.50 Cu. Meters
	(Liquid)	400 Gallons 1,514 Liters
• Length	29 Ft. 4.5 In.	9.00 Meters
• Height	9 Ft. 2 In.	2.796 Meters
• Wing Span (Long)	47 Ft. 6 In.	14.478 Meters
• Wing Area (Long)	350 Sq. Ft.	32.516 Meters
• Tread Width	9 Ft.	2.74 Meters
• Velocity Never Exceed	159 Mph	256 Kph
• Working Speeds	115 - 135 Mph	185-217 Kph
• Stall Speed As Usually Landed	52 Mph	83.68 Kph
• Sea Level Rate of Climb at 6,000 Pounds	1,040 Fpm	317 Mpm
• Sea Level Rate of Climb at 7,900 Pounds	520 Fpm	159 Mpm
• Take Off Distance @ 7,900 Lbs.	1,320 Feet	402 Meters
• Landing Distance as Usually Landed	600 Feet	183 Meters
• Fuel Consumption	30-40 Gph	114-151 Lph
• Cruising Speed @ 70% Power (4000' MSL)	130 Mph	209.21 Kph
• Ferry Range, @ 70% Power	403 Miles	649 Kph

* Under Part 8, Operator May Choose Own Gross Weight Within Approved Limits.

