KH Equipment

10 - 16 Westpool Drive, Hallam Vic 3803 Australia

- T: +61 3 8786 4766
- E info@khequipment.com.au
- W: www.austart.com



Safe and reliable from start to finish!

Austart air starting provides the safest and most reliable engine starting solutions in the world. Australia is synonymous with high quality manufacturing and none more than Austart, where each component is designed, manufactured and assembled at our world class facility in Melbourne to meet the highest standards.

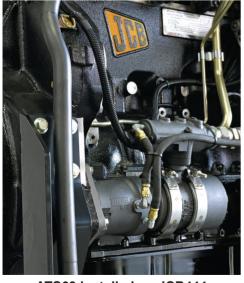
With vast engineering experience, a history of supplying OEM customers and outlasting our competitors in the harshest of environments, you are assured that Austart will solve your engine starting objectives.

ATEX Certified

ATEX is derived from the French words 'Atmosphéres Explosibles'. It's a joint directive of the European states regulating minimum essential health and safety requirements (EHSRs); overseeing the standard of manufacture, installation and usage of equipment in explosive atmospheres and working environments. All equipment sold or installed into potentially explosive atmospheres within Europe after June 2003 must comply with the ATEX 94/9EC standard. The worthiness of the ATEX standard has grown to world-wide acclaim and acceptance, gaining industry respect in the USA, Asia, Australia and beyond.



Due to global demand, (and desiring further certification of our World-class quality) Austart applied for and obtained the latest ATEX certification for our range of turbine air starters.



ATS63 installed on JCB444

By ingenious design, benefits of Austart air starters over electrical starting systems include:

- Higher cranking torque
- Extended cranking periods
- No batteries are required
- Faster, more reliable starting
- Prolonged operating life
- Fewer moving parts
- Longer service intervals
- Immunity to dusty environments
- Immunity to extremely high or low temperatures
- No need for special tools when servicing

Every Austart air starter is guaranteed to produce safe and reliable starting with longevity.



Austart has a long history in the design of starting solutions for some of the most stringent applications. These include:

- Re-fuelling pumps for Military applications.
- Fire Pumps for use on offshore Oil & Gas platforms.
- Underground coal mining equipment.
- Flood Pumps for Navy applications.
- Re-fuelling pumps for the aviation industry.
- Hot engine test benches.
- Kelly Spinner drive applications.
- Chemical dosing pumps.
- Winch drives.
- Post and Pre Lube pumps.
- Remote bayonet mounting applications.



ATS53 installed on Caterpillar C2.2

Air starters come in many configurations for a variety of applications and fitment objectives.

- Turbine/Vane motor options
- Nosecone or overhung pinions
- Beryllium Copper Bronze (BCB) non sparking pinions available
- Clockwise/Counter clockwise rotation
- Pre-engaged or inertia engagement options
- U shaped models available for limited space applications

Austart Turbine Starters

As the name correctly identifies, the driving mechanism is a specially designed 3-stage high speed turbine wheel with aerodynamic braking. The rotating energy is transferred through a series of reduction gears providing the necessary torque and speed to accommodate the particular engine's specifications. Austart single turbine starters are as powerful as the competitors' twin turbine models – with the benefits of requiring less air pressure, having fewer moving parts, being more compact and less expensive when servicing and reconditioning. Austart turbine starters feature full 360-degree indexation of the inlet port which was another industry first, allowing fitment to a far greater array of engines – and easier installation. Additional benefits of the Austart turbine air starter include: fewer moving parts, non-contact turbine wheel, frictionless movements, self-governing speed control, optimised planetary gearing, true lube free operation, ATEX certified models and extended service intervals. The Austart turbine range is the most technically-advanced starter available in the world today.

Austart ATS53 Series

For Diesel Applications **up to 3 Litres**



Key Features at 100 psi				
Weight	17.6 lb (8 kg)	Power	9 hp (6.6 kW)	
Torque	31 ft lb (42 Nm)	Consumption	4.4 scfs (125 l/s)	
Speed	5500 RPM	Noise Level	100 dBa	

Austart ATS63 Series

For Diesel Applications up to 3 - 8 Litres



Key Features at 100 psi				
Weight	24 lb (10.9 kg)	Power	10 hp (7.4 kW)	
Torque	50 ft lb (67.8 Nm)	Consumption	4.7 scfs (132 l/s)	
Speed	4500 RPM	Noise Level	100 dBa	





Key Features at 100 psi			
Weight	35 lb (15.9 kg)	Power	26 hp (19.1 kW)
Torque	115 ft lb (156 Nm)	Consumption	6 scfs (170 l/s)
Speed	4500 RPM	Noise Level	100 dBa

Austart ATS93 Series For Diesel Applications up to 25 - 70 Litres



Key Features at 100 psi				
Weight	36 lb (16.3 kg)	Power	35 hp (25.7 kW)	
Torque	210 ft lb (284.7 Nm)	Consumption	13.5 scfs (380 l/s)	
Speed	3600 RPM	Noise Level	108 dBa	



Key Features at 100 psi			
Weight	35.3 lb (16 kg)	Power	26 hp (19.1 kW)
Torque	130 ft lb (176.3 Nm)	Consumption	6 scfs (170 l/s)
Speed	4000 RPM	Noise Level	100 dBa

Austart ATS103 Series

For Diesel Applications up to 50 - 250 Litres



Key Features at 100 psi			
Weight	46.3 lb (21 kg)	Power	60 hp (44.1 kW)
Torque	265 ft lb (359.3 Nm)	Consumption	18.3 scfs (520 l/s)
Speed	4600 RPM	Noise Level	108 dBa

Austart Vane Starters

The designation is derived from the driving mechanism being a series of vanes which direct airflow to drive a rotor which in turn provides the necessary torque and speed to accommodate the particular engine's specifications. Vane starters are unmatched in applications where limited space or contorted fitment has to be addressed. Z and U shape configurations, along with an array of flange and pinion options enable fitment where no other air starter can accommodate. Both lube-less and lubricated motor options are available, but decided upon with consideration toward the intended application.



AS67





Austart Accessories

Austart also supplies all necessary start system components. This includes manual or solenoid start valves, quick exhaust valves, Y strainers (provided free of charge with all New Turbine Starter purchases), relay valves and lubrication devices for use with Vane Starters.











Solenoid Valve

Quick Exhaust Valve

Y-Strainer

Relay Valve

Start Button

Special Builds







Overhung Pinion

Various Exhaust Options

Inertia Drive System

Spare Parts

A non-starting or dangerous engine often equates to enormously expensive downtime. Understanding the urgency, we deliberately maintain high stock levels of common Austart parts for immediate dispatch.





Starter Maintenance and Repair

Austart offers genuine factory repairs on all non-electric starting products including pneumatic, spring and hydraulic starting systems. Our workshops are specially equipped with the latest engineering tools with all work carried out by highly qualified and experienced service technicians. We don't just replace the faulty components; every part is checked and measured for wear and expert advice given to provide the best, cost-effective solution. Providing the reconditioning process is approved all bearings, seals and O-rings are replaced. A Dynamometer is utilised for testing so you can rest assured that all starters leave our facilities performing to their required specifications.

Quality Assurance

Austart air starters are manufactured under the strict world recognised ISO 9001:2008 Quality Management System. All our staff are involved in the quality process; from raw material procurement through to dispatch of the final, fully-tested products. This ensures every product exceeds our customer's needs, plus continual improvement and full traceability is met.







Our Worldwide Network:

KH Equipment
10-16 Westpool Drive
Hallam Vic 3803
Australia
T: +61 3 8786 4766
E: info@khequipment.com.au

Universal Starter Inc 40055 Garrett Rd Brookshire Texas USA 77423 T: +1 225 8199608 E: sales@universalstarter.com