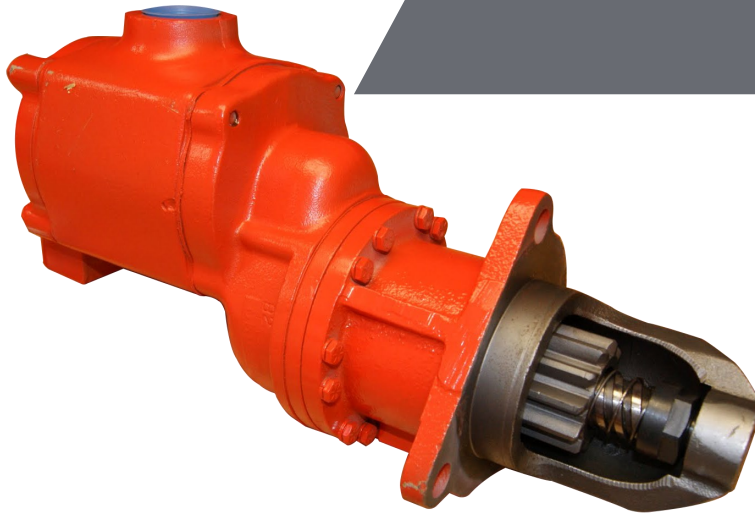


Product Datasheet

REMANUFACTURED STARTERS

When Power is Critical



Rapid replacement of air starters. Cash back for old starter motors.

REMANUFACTURED AIR STARTERS

For diesel and gas engines

Air starters are a compact and powerful way of starting an engine. But, like everything else in this world, air starters eventually fail. When that happens you can't afford to be without an engine for 10 weeks while you wait for a new one. When you need a replacement, you need it yesterday.

IPU can supply a replacement remanufactured air starter motor in just days instead of weeks.

Thanks to a large stock holding we have access to over 3,500 air starters that cover all major makes and models, including:

- Ingersoll Rand
- TDI
- Austart
- Pow-R-Quik

Fast

IPU can supply you with a remanufactured starter motor in days, no matter what make or model it is.

Quality

All of our remanufactured starter motors are tested, certified and come with 6 months warranty.

Guaranteed buy-back

When you purchase a remanufactured air starter from IPU we'll give you a rebate for your old one.

Simple

If you tell us the make and model of your existing starter motor and we'll provide you with a direct replacement.



REMANUFACTURED STARTERS

Remanufactured air starters

What is a remanufactured starter?

A remanufactured starter is a starter motor that has been restored to 'as new' condition. When a starter motor fails we will supply you with a direct replacement. Once your engine is back up and running we offer you a rebate for the old starter motor so we can remanufacture it. Our expert team dismantle the old unit, replace all wear parts and failed components and restore it to full operability. Remanufacturing should not be confused with a simple repair. Our remanufacturing process is much more comprehensive. Once a starter has been remanufactured we'll guarantee it by testing, certifying and giving it 6 months warranty.

Remanufacturing process

Every returned air starter motor undergoes the following remanufacturing process:

- 1) **Disassembly** - All returned starter motors ("cores") are disassembled. Threaded holes are re-tapped. The individual starter motor parts are separated, cleaned and inspected. Any parts that can be reused are further cleaned, polished and sent to the build department. Parts are only reused if they meet the manufacturer's strict specifications.
- 2) **Assembly** - Every remanufactured starter receives new bearings, seals, o-rings, gaskets and vanes. Starters are also built according to the manufacturer's most current specifications including the use of recommended oils and greases.
- 3) **Testing and painting** - Assembled units are inspected for appearance, orientation confirmation, rotation confirmation, clutch(es) operation confirmation, torque of critical fasteners, bendix drive function (inertia models) and general leak test. Our remanufacturing team have access to load testers and real-world test units that provide accurate cycle counts that truly test the components. All units that pass testing are then cleaned, painted and packaged.

Remanufacture vs repair

It's quicker, more cost-effective and more reliable to choose remanufacturing over repair.

- **Starting expertise:** Our remanufacturing team has over 20 years experience rebuilding air starters.
- **Remanufactured starters come with a warranty:** We are so confident in the reliability of our remanufactured air starters that we will provide 6 months warranty for your peace of mind.
- **Remanufacturing replaces all wearing parts:** When we remanufacture a starter motor we replace all wearing components (including bearings, seals, o-rings, gaskets and vanes). A repair usually just replaces the broken parts. This leaves other worn parts inside the starter motor that may fail the following week.
- **Obtaining a remanufactured replacement is quicker and frees up resources:** Purchasing a remanufactured starter is quick, cost-effective and gets your engine back up and running quickly. A repair takes your engineers away from their regular responsibilities. It'll also take them time to dismantle the starter, diagnose faults, source spares and reassemble the motor. It's a slow and expensive process.



REMANUFACTURED STARTERS

Advantages of remanufactured starters

Fast delivery

A remanufactured starter from IPU can be with you in days. We have thousands of remanufactured air starters available. We can deliver them faster than new units are available. Why wait months when we can get a replacement to you in days? When your engine isn't running you're losing time, revenue and reputation. You need a replacement and you need it now.

We stock all major brands including:

- TDI
- Ingersoll Rand
- Austart
- Pow-R-Quik

Guaranteed rebate

When you purchase a remanufactured air starter from IPU we'll offer a guaranteed no quibble rebate for your old one. We'll honour this price no matter what its condition unlike programmes where the amount you receive depends on the damage to the starter.

Replace like-for-like - no engine modifications required

IPU can supply you with a like-for-like replacement for your old starter motor. We have access to over 3,500 remanufactured air starters that cover the majority of makes and models.

Don't worry if you don't know the make and model of your starter motor. We're engine starting experts and can help you identify it.

One supplier for all makes and models of starter motor

Sourcing starter motors for different pieces of equipment used to mean dealing with several different contacts. IPU's remanufactured starter programme gives you a single point of contact for all the starter motors you need. Our engineering and manufacturing department can also supply custom-designed packaged solutions for air, hydraulic, nitrogen and spring starting.

We are your one-stop-shop for non-electric engine starting.

The process for ordering a remanufactured air starter

Our aim is to get your engine running again as quickly as possible. That is why we've made the process of ordering a remanufactured starter very simple:

- 1) Order a remanufactured air starter motor from IPU.
- 2) Receive the remanufactured air starter and fit it to your engine.
- 3) Send the old starter motor to IPU within 30 days.
- 4) Receive the agreed rebate value.



REMANUFACTURED STARTERS

Cost saving examples

	IR Starter RM-150BMPE88R54-R	IR Starter RM-SS350GE03R31-R	IR Starter RM-SS815UGB03R31-R
Typical price of a new starter motor from 3rd party*	£1,697.25	£1,962.75	£2,887.50
Price of a remanufactured starter from IPU*	£1,357.80	£1,570.00	£2,310.00
Total saving (before returning the old starter motor)	£339.45 (20%)	£392.75 (20%)	£577.50 (20%)
Rebate for the old starter motor*	£188.84	£180.00	£342.50
Total saving (after returning the old starter motor)	£528.29 (31%)	£572.75 (29%)	£920.00 (32%)

*Prices are correct at the time of writing but may be subject to change.

