

Spring starters for diesel engines



- Suitable for diesel engines up to 12 litres
- Simple alternative or back-up start system for most applications
- Easy and reliable bolt-on starter

The IPU range of spring starters are tough, simple and cost effective alternatives to battery starting. Capable of starting diesel engines up to 12 litres with a choice of heavy duty models, as well as alloy and Z drive starters for applications where space and weight are crucial.



Manual spring starters ensure reliable starting - time and time again. They are resistant to damp and extremes of temperature, making them an ideal choice for offshore and saliferous environments. They are also ideally suited to hazardous zones where electric starting is prohibited due to the potential for sparks to cause an explosion.

Customer benefits

Guaranteed starting

Manual starting means that cranking is guaranteed, unaffected by long shutdown, dampness, cold or harsh environments.

Reliable design

Spring starters have a long and well-proven track record with many still in operation after decades of use.

Overall savings

The spring starter weighs only 18kg, less than half the weight of ordinary electrical starting systems. You save on both weight and volume, resulting in reduced loading, higher payloads and easier handling.

Safe to use

Operator safety is a key feature of spring starters. The crank will not kick back or "fly-off" the starter, as can happen with starting handles and it can be unwound, if necessary.

Easy to operate

The spring starter is a direct bolt-on option to an electric starter - installation is a quick and easy task. Push a button to engage the starter, wind the handle until the colour of the spring's changes and pull the trip handle to release the starter - transferring stored energy to the flywheel and turning the engine over so that it fires.

Reduced battery costs

For applications such as pumps, welders, mills and gen-sets you can dispense with batteries altogether.

Lower electrical costs

Remove electric starting, and a lighter capacity alternator suffices for the reduced electrical requirements with the added benefit of alternators and fan belts lasting twice as long.

Environmental gains

Gain the environmental benefits of small size, reduced weight, lower power consumption that results in fuel efficiency as well as removing the need to dispose of lead acid batteries.

Spring starter product range

Simms SM series (Stubby) starter motor

The SM series of heavy-duty manual spring starter motors are ideal for hand starting smaller diesel engines working in tough conditions.

Special features:

- Short length to fit smaller diesel engines where space is restricted
- Smooth action Powerspring for easy manual hand starting action
- Uses standard Simms nosepieces with manual engagement and trip mechanism
- Fits anywhere that a Simms SS starter motor will go, so a wide range of applications is already available
- Standard Simms crank wind with detachable handle
- Variable wind and back wind
- Reverse rotation, marine and lightweight options available



Lowest price spring starter



0.6 > 6 litres

Simms SZ series Z drive starter motor

The SZ series steel spring starters motors are ideal where diesel engine clearance or low flywheel inertia is a problem.

Special features:

- Z drive to fit smaller diesel engines with restricted block clearance
- Smooth action Powerspring for easy hand starting action
- Standard Simms nosepieces with manual engagement and trip mechanism
- Standard Simms crank wind with detachable handle.
- Variable wind and back wind
- Reverse rotation and marine options available



Ideal for restricted block clearance



0.6 > 6 litres

Simms SZH2 series starter motor

The SZH2 heavy-duty steel spring starters are the most powerful in the range. They are designed for diesel engines from 1.25 to over 2 litres per cylinder, but are compact and flexible enough to fit smaller engines where mechanical starting is a problem, typically due to difficult conditions or load at start-up.

Special features:

- Extra powerful spring pack to start large diesel engines
- Z drive to maximise engine clearance – can generally be fitted in place of Simms starter motor for starting in difficult conditions
- Simms crank wind with detachable handle for hand starting generators
- Uses standard Simms nosepieces with manual engagement and trip mechanism
- Smooth action Powerspring
- Variable gearing to meet customer needs
- Variable wind
- Reverse rotation and marine options available



Ideal for larger engines



up to 12 litres



Applications

There are many different applications for the spring starter, these include:

- Where simplicity, robustness and reliability are essential, and the apparent convenience of push button starting is less important
- For environments such as mines and oil refineries, where electrical equipment can be illegal or dangerous
- Where problematic conditions such as vibration, heat, dust, salt water need to be overcome
- In remote locations or, where poor operational skills mean that operability is far more important than push button convenience
- For emergency and strategic use such as on lifeboats, military, emergency or backup generators

Spring starters are suitable for use on all these diesel-powered applications:

- Boats
- Tractors
- Grain mills
- Pumps
- Generator sets and compressors
- Dump trucks
- Fork lifts
- Construction equipment
- Hydraulic power units
- Winches
- Welders
- Drilling equipment

Useful contact numbers

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