

+ Highly Innovative Rotary Piston Engine.

+ Cheap, Robust, Low Maintenance.

+ Efficiency >92%



FS ENGINE+

OVERVIEW

FS ENGINE+ is a patent pending, novel and innovative rotary piston engine, which enables a highly efficient & cost effective, yet powerful solution for yield increase and cost reduction in different engine applications! FS ENGINE+ is being used as a core component in several FUELSAVE solutions and is being further developed for even more possibilities in the future.

In comparison with conventional engine concepts, FS ENGINE+ offers with its sleek & streamlined design several advantages, which makes it unique:

- Higher Efficiency
- Easy scalability
- Lower manufacturing costs
- Lower service & maintenance needs
- Smaller space requirements
- Lower heat development
- Lower weight to power ratio
- Minimal vibration development
- Longer Usage times
- Self-sealing without lubricant

FUNCTION

The base consist out of 2 rotors within a round rotation chamber with entry & exit point. The both rotary pistons are being propelled by the entering working media. The power is being transmitted directly to the drive / motor shaft, for the easiest and most efficient operation. I.e.

Through the use of high-performance materials and a special proprietary self-sealing element, the FS ENGINE+ achieves an efficiency of significantly above 90% in dependence of the used working media (gas, air, liquids, steam, etc.)

Here FUELSAVE solved for the first time the general existing systematic sealing problems at rotary piston engines in an intelligent, yet simple & cost-effective way. As a so called multi-fuel engine the FS ENGINE+ can even work with media that only has i.e. 1% the viscosity of air:

- Compressed air
- Gases
- Exhaust gases
- Cooling liquid (i.e. R134a)
- Water steam
- etc.

In addition it features unique technical properties & characteristics:

- High rotational speed level (up to 30.000 rpm)
- Low starting torque (from 200 mbar)
- Constant, linear torque
- Constant impermeability
- Self-sealing without lubricant
- etc.

USE

REDUCTION OF OPERATING EXPENSES

Due to the significantly higher efficiency compared to conventional engines and therefore improved energy utilization, the operating materials are being reduced for input materials & waste heat treatment.

REDUCTION OF MANUFACTURING COSTS

Due to the relatively small amount of building parts / components, obsolete auxiliary units and uncomplicated structure production / manufacturing cpsts for engines can be reduced significantly. The scalable design (similar to an electric engine) enables on top of it various applications in all kind of performnce / power classes. The development effort for different engine types is being omitted.

REDUCTION OF SERVICE & MAINTENANCE

The contactless design and the used materials of the FS ENGINE+ provide for the least wear & tear and greatest durability despite enormous power output. The expenses for service & maintenance works are being reduced significantly.

REDUCTION OF EMISSIONS

Every used input material shows a more or less burdened emission balance. In parrallel to higher efficiency in energy transformation FS ENGINE+ also reduces the emissions in operation and within the production chain. This makes our customers even more environmentally friendly for a better perception & greener image in the general public.

BENEFIT

REVOLUTION OF THE ENGINE

FS ENGINE+ offers a novel & innovative engine concept, which easily outperforms efficiency levels of todays engines. FS ENGINE+ represents a new generation of more energy efficient energy transformers / engines.

NEW DESIGN PERSPECTIVE

Thanks to the compact and up to 60% smaller structure, completely new applications and opportunities within the industrial design become accessible. Multiple in parrallel working small & highly efficient units could replace even large central aggregates.

UNIVERSAL APPLICATION

One engine - different field of application. Through the spectrum of usable input material, as well as the significantly reduced heat and vibration development FS ENGINE+ is a true multi-talent and almost universally applicable. We discover regularly new fields of potential application.

OUTLOOK

2017/2018 FUELSAVE will present the first version of the FS ENGINE+ as combustion engine, As revolutionary engine concept, it has the chance to surpass & outperform every combustion engine (Otto, Diesel, Wankel, etc.) on the market with regards to fuel consumption, emissions, **operating costs, as well as service & maintenance.**

MODELS & PRICES

FS ENGINE+ is freely scalable and available for different power / performance classes according to the requirement and therefore adequate for various specific applicational fields. Please do not hesitate to inquire for your specific model for your solutions & projects.



ENGINE

GREEN
TECHNOLOGY

www.fuelsave.de