SUTER

AVIATION ENGINES

COMPACT POWERFUL

FUEL EFFICIENT

- BEST POWER-TO-WEIGHT RATIO
- 500 H TBO
- FUEL EFFICIENT: 280 G/KWH
- HIGH-ALTITUDE PROVEN
- GASOLINE, JET A1, JP-5, JP-8

SWISS MADE

Swiss engine power,
5 to 45 kW

SUTER UAV ENGINES – COMPACT POWER. ENDURANCE PROVEN.

Suter is founded on a simple principle: performance comes from precision. Since 1996, we have built our reputation in international motorsport, where every gram and every detail determines victory. That same engineering DNA now drives our UAV propulsion systems.

Our engines are compact, fuel-efficient and endurance-proven. They are engineered for mission-critical platforms that demand reliability in the air, across civil survey missions, industrial applications and defence operations. From lightweight single-piston units to high-output multi-cylinder powerplants, the Suter portfolio covers the full spectrum of UAV propulsion.

Each system is developed and manufactured in Switzerland, validated in dedicated endurance test cells, and designed for operation on kerosene-class fuels such as Jet-A1, JP-5 and JP-8. Compliance with Swiss and EU dual-use export regulations, combined with ISO 9001 quality standards, ensures transparency and long-term reliability for every customer.

This brochure presents the complete Suter UAV engine family, followed by integration options and engineering support. It is intended to provide a clear overview of our capabilities and to help you select the propulsion solution that best fits your platform.

ENGINEERED *by Suter.*

OUR ENGINES

Our engines are compact, fuel-efficient, and endurance proven. They are engineered for mission-critical platforms that demand reliability in the air, whether in civil surveys, industrial applications, or defence operations. From lightweight single-piston units to strong multi-cylinder powerplants, the Suter portfolio covers the full range of UAV propulsion.

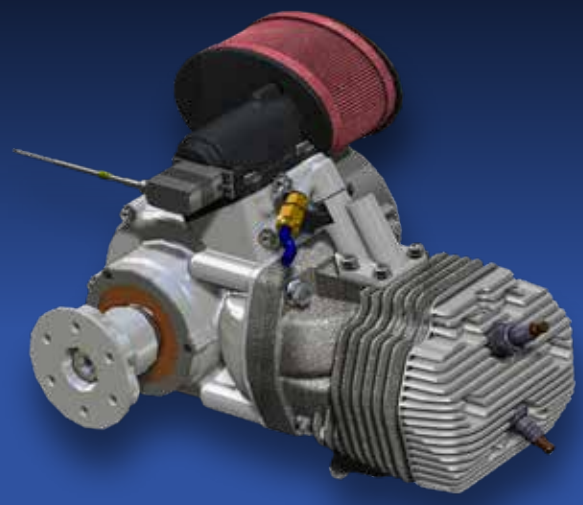
	Type	*Displacement*	*Power*	*Weight*
	**SPA 144** **HF SPA 144 SDI**	144 cc Single piston Heavy Fuel, Jet-A1, JP-5 and JP-8	8-12 HP	4,0 - 4,2 KG
		Under development, planned availability June 2026		
	**TOA 288** **HF TOA 288 SDI**	288 cc Twin opposed piston Heavy Fuel, Jet-A1, JP-5 and JP-8	16-26 HP	7,4 - 7,9 KG
	**TOW 288**	288 cc Twin opposed piston	16-26 HP	7,6 KG
	**TOA 330** **HF TOA 330 SDI**	330 cc Twin opposed piston Heavy Fuel, Jet-A1, JP-5 and JP-8	20-30 HP	8,2 - 8,7 KG
	**TOA 330-APU**	330 cc Twin opposed piston	17kW 60VDC	17,7 - 18,2 KG
	**FH FOA 660 SDI**	660 cc Four opposed piston Heavy Fuel, Jet-A1, JP-5 and JP-8	45-60 HP	18,0 KG
		Under development ready July 2026		

SPA 144

COMPACT POWER SWISS PRECISION

Lightweight 8–12 hp single-piston UAV engine, air-cooled.
Available in gasoline or heavy-fuel variants.

SWISS MADE



The SPA 144 is the foundation of Suter's UAV engine range a lightweight, air-cooled single-piston engine engineered for small, unmanned aircraft where every gram counts. Compact and efficient, it delivers reliable propulsion with minimal maintenance requirements, making it ideal for survey, training and mapping applications.

Applications: *Training UAVs, survey drones, small mapping aircraft.*
Dual-Use Applications: *Compact sensor-based systems and training targets requiring Jet-A1 compatibility.*

TECHNICAL SPECIFICATIONS

Parameter	*Value*
Fuel Efficiency	350 g/kWh BSFC
Service Ceiling	20,000 ft (6,100 m)
Displacement	144 cc
Configuration	Single Piston, two-stroke
Power Output	9.0 kW (≈ 12 hp) @ 6,500 rpm 14.0 nM at 6,000 rpm
Weight	4.0 kg engine + 0,9 kg exhaust & silencer + 1,5 kg SGCU 1 kW / 28VDC + 1,5 kg generator 1 kW
Cooling	Air-cooled
Fuel	Min. 95RON (91 MON MOGAS) or AVGAS LL100
Management & Control	ECU / 12V system, automatic
Ignition System	CDI (Capacitor Discharge Ignition)
Mixture	1:60 (1,6 %) 2-stroke oil API TC
Dimensions	227 x 274 x 208 mm (L x W x H)
TBO	> 500 h

Under development, planned availability June 2026

KEY FEATURES

Ultra-Light Architecture

Only 4.0 kg engine weight for maximum payload efficiency.

Air-Cooled Reliability

Simple system architecture that reduces complexity and service requirements.

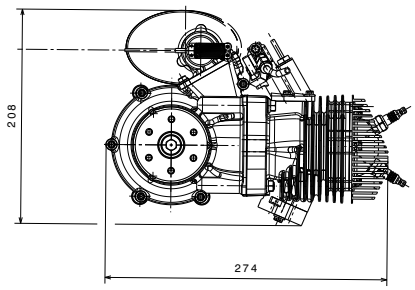
Optimized Power Density

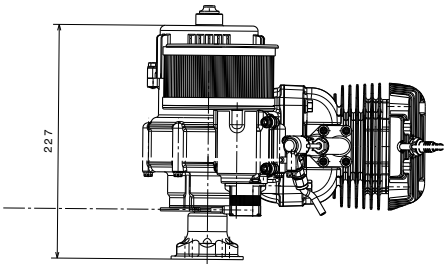
8–12 hp output from a compact 144 cc single-cylinder layout.

Its Swiss-engineered design combines precision manufacturing with proven two-stroke endurance for continuous operations in the field.

POSITIONING

The SPA 144 represents the entry point into Suter's precision UAV propulsion range. Compact, efficient, and easy to integrate, it provides dependable performance for light UAV applications where simplicity and endurance define success.

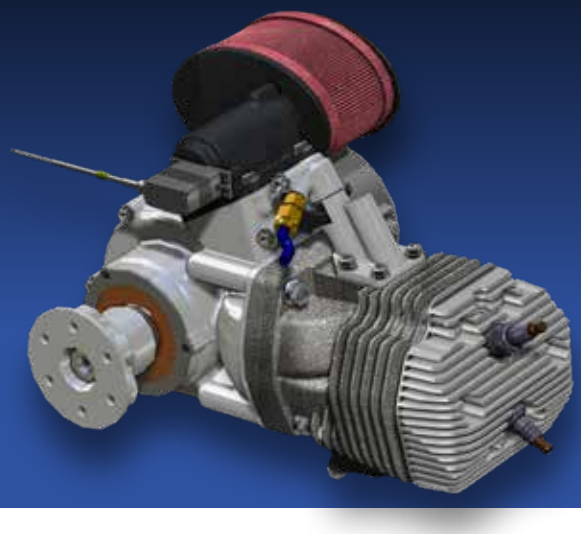




SPA 144 SDI

COMPACT POWER
HEAVY FUEL READY

Lightweight 8–12 hp single-piston UAV engine, air-cooled. Heavy-fuel (kerosene-class) variant for professional and industrial unmanned programs.



The SPA 144 is the smallest heavy-fuel engine in the Suter UAV lineup. At just 4.2 kg (engine only), it delivers dependable propulsion for light UAV airframes while meeting kerosene-class fuel requirements. Precision Swiss manufacturing, DI/EFI management, and validated through endurance-focused testing where every gram and every minute in the air matter.

Civil Applications:: *Survey drones, training UAVs, mapping platforms.*
Dual-Use Applications: *Entry-level sensor test platforms and training targets and test platforms (gasoline baseline version).*

TECHNICAL SPECIFICATIONS

Parameter	*Value*
Fuel Efficiency	330 g/kWh (BSFC)
Service Ceiling	20,000 ft (6,100 m)
Displacement	144 cc
Configuration	Single Piston, two-stroke
Power Output	7.7–9.0 kW (10–12 hp) at 6,500 rpm (HF–Gas) 12.0–14.0 Nm @ 6,000 rpm (HF - GAS)
Weight	4,2 kg engine* + 0,9 kg exhaust & silencer + 1,5 kg SGCU 1 kW / 28VDC + 1,5 kg generator 1 kW
Cooling	Air-cooled
FuelJet	All kerosene-based fuels like Jet-A1, JP-5 and JP-8
Management & Control	ECU / 12V system, automatic
Ignition System	CDI (Capacitor Discharge Ignition)
Mixture	1:60 (1,6 %) 2-stroke oil API TC
Dimensions	227 x 274 x 208 mm (L x W x H)
TBO	> 500 h

Under development, planned availability June 2026

KEY FEATURES

Heavy Fuel in Ultra Light Form
Kerosene-class fuel capability at ~4.2 kg engine weight.

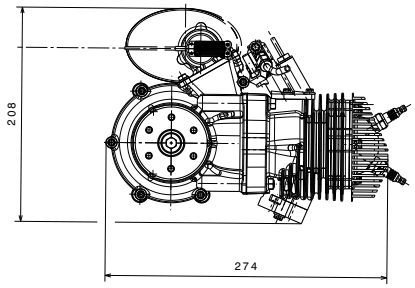
Air-cooled Simplicity
Minimal system mass and fast integration, optimized for small airframes.

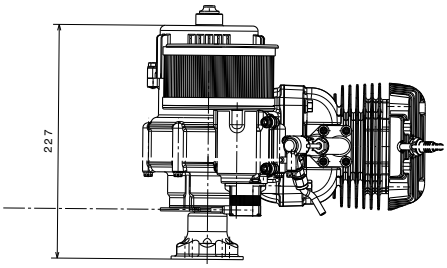
Digital Control
ECU-managed fuel/ignition with altitude compensation and over-temp protection.

Endurance-Proven
Swiss-built components validated in long-duration test cells.

POSITIONING

The SPA 144 represents the entry point into Suter's precision UAV propulsion range. Compact, efficient, and easy to integrate, it provides dependable performance for light UAV applications where simplicity and endurance define success.





TOA 288

COMPACT
FUEL EFFICIENT

Mid-range 16–24 hp UAV engine, twin-opposed two-stroke, air-cooled. Gasoline baseline of the 288 platform.

The TOA 288 is the starting point of the 288-platform family. Designed as a lightweight, compact gasoline engine, it delivers stable mid-range propulsion for civil UAVs. Its air-cooled twin-opposed design ensures simplicity and performance in fixed-wing applications.

Civil Applications: *Survey drones, training UAVs, light mapping aircraft.*

Dual-Use Applications: *Entry-level sensor-based platforms and training drones (gasoline baseline version).*

TECHNICAL SPECIFICATIONS

Parameter	*Value*
Fuel Efficiency	325 g/kWh (BSFC)
Service Ceiling	20,000 ft (6,100 m)
Displacement	288 cc
Configuration	Twin-opposed, two-stroke
Power Output	17.6 kW at 6,500 rpm (23,6 HP) 27.2 Nm Torque at 6,000 rpm
Weight	7.8 kg engine* + 1.8 kg exhaust + 1.5 kg 1 kW / 28 VDC regulator + 1.5 kg generator 1 kW
Cooling	Air-cooled
Fuel AVGAS LL100	Min. 95RON (91 MON MOGAS) or
Management & Control	ECU / 12V system, automatic
Ignition System	CDI (Capacitor Discharge Ignition)
Mixture	1:60 (1,6 %) 2-stroke oil API TC
Dimensions	253 × 239 × 285 mm (L × W × H)
TBO	> 500 h

KEY FEATURES

Proven Baseline

Foundation of the 288 platform, extending to heavy-fuel and water-cooled variants.

Balanced Power

16–24 hp output for medium UAV platforms requiring efficient cruise and endurance.

Lightweight Construction

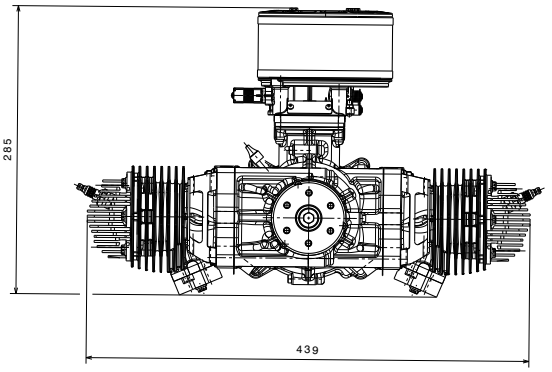
Low engine mass supporting maximum payload efficiency and extended mission duration.

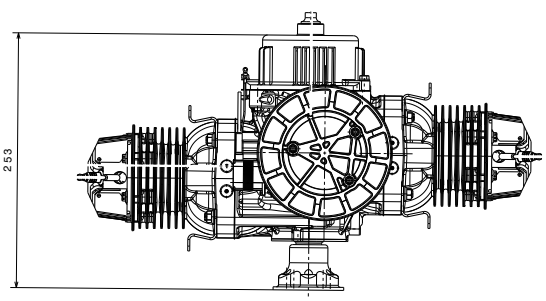
Air-Cooled design

air-cooled simplicity for fixed-wing and light UAVs.

POSITIONING

The TOA 288 is the lightweight entry into the 288 family optimized for civil UAVs needing reliable, most fuel efficient mid-range propulsion.





HF TOA 288-SDI

ALTITUDE-CAPABLE ENDURANCE-PROVEN

Mid-range 16–24 hp UAV engine, twin-opposed two-stroke, air-cooled. Runs on diesel and kerosene-class fuels such as Jet-A1, JP-5, and JP-8.

The TOA 288-SDI is the heavy-fuel optimized member of the 288 family. Designed for professional and industrial compliance, it runs on kerosene-based fuels such as Jet-A1, JP-5, and JP-8, making it suitable for long-endurance unmanned applications.

Civil Applications: *Survey and mapping drones requiring endurance with Jet-A1.*
Dual-Use Applications: *Long-endurance UAV platforms and government-operated systems requiring heavy-fuel capability.*

TECHNICAL SPECIFICATIONS

Parameter	*Value*
Fuel Efficiency	315 g/kWh (BSFC)
Service Ceiling	20,000 ft (6,100 m)
Displacement	288 cc
Configuration	Twin-opposed, two-stroke
Power Output	15.4 - 17.6 kW at 6,750 rpm (HF - GAS) 24.0 - 28.0 Nm at 6,000 rpm (HF - GAS)
Weight	8.5 kg engine* + 1.8 kg exhaust & silencer + 1.5 kg 1 kW / 28 VDC regulator + 1.5 kg generator 1 kW
Cooling	Air-cooled
FuelJet	All kerosene-based fuels like Jet-A1, JP-5 and JP-8
Management & Control	ECU / 12V system, automatic
Ignition System	CDI (Capacitor Discharge Ignition)
Mixture	Direct Oil Injection, 2-stroke oil API TC
Dimensions	253 × 439 × 278 mm (L x W x H)
TBO	> 500 h

KEY FEATURES

Advanced ECU Integration

Electronic control of fuel injection, ignition, cold start, EGT monitoring, altitude compensation and over-temperature protection.

Fuel Efficiency First

315 g/kWh BSFC — unmatched in its class for long endurance.

Fuel Flexibility

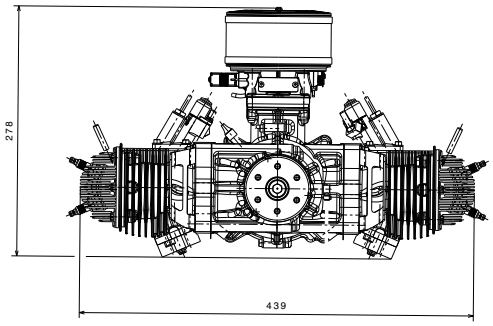
Kerosene based fuels like Jet A-1(optional JP-5 / JP-8).

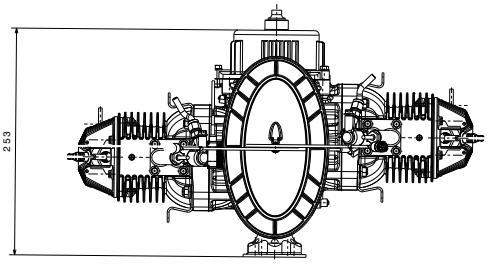
ECU Integration

ECU for fuel, ignition, cold start, EGT, coolant temperature altitude compensation & overheat protection.

POSITIONING

The TOA 288-SDI bridges compact size with serious endurance. Its combination of altitude capability, fuel flexibility, and best-in-class efficiency makes it the go-to choice for UAV's that demand maximum time on wing without compromise.





TOW 288

COMPACT POWER WATER-COOLED RELIABILITY

Mid-range 18–26 hp UAV engine, 288 cc twin-opposed, water-cooled. Optimized for helicopters and rotary UAVs.

The TOW 288 extends the Suter 288 platform with a water-cooled architecture, purpose-built for helicopters and rotary UAVs where airflow is limited. Its stability under continuous load makes it ideal for hover-intensive and endurance-heavy applications.

Civil Applications: *Light helicopters and rotary UAVs with continuous hover profiles.*

Dual-Use Applications:

Rotary-wing and endurance UAV platforms requiring water-cooled propulsion stability.

KEY FEATURES

Precision Swiss Manufacturing

Swiss-built components validated through endurance-focused development and testing.

Water-Cooled Stability

Especially suited for helicopters and rotary platforms where airflow is restricted.

Twin-Opposed Design

Compact layout with balanced operation.

Precision Manufacturing

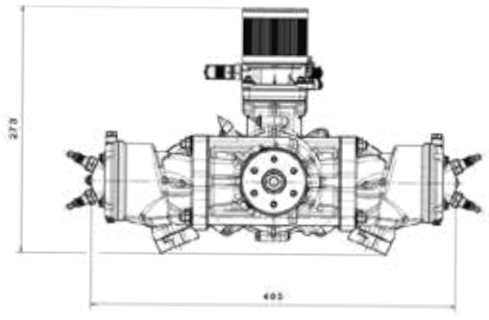
Built with Swiss-manufactured components and endurance-focused validation.

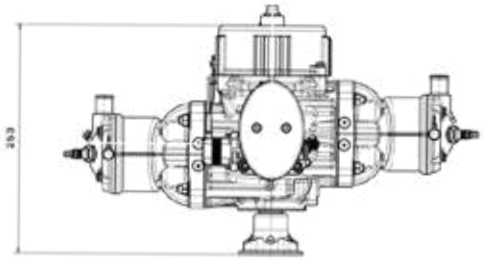
TECHNICAL SPECIFICATIONS

Parameter	*Value*
Fuel Efficiency	315 g/kWh (BSFC)
Service Ceiling	20,000 ft (6,100 m)
Displacement	288 cc
Configuration	Twin-Opposed, two-stroke
Power Output	20.0 kW at 6,500 rpm (27,2 HP) 29.2 Nm at 6,000 rpm
Weight	8.8 kg engine* + 1.8 kg exhaust & silencer + 1.5 kg 1 kW / 28 VDC regulator + 1.5 kg generator 1 kW + 0.5 kg water pump
Cooling	Water-Cooled
Fuel	Min. 95RON (91 MON MOGAS) or AVGAS LL100
Management & Control	ECU / 12V system, automatic
Ignition System	CDI (Capacitor Discharge Ignition)
Mixture	1:60 (1,6 %) 2-stroke oil API TC
Dimensions	263 x 403 x 253 mm (L x W x H)
TBO	> 500 h

POSITIONING

The TOW 288 bridges compact size with cooling stability. Its water-cooled architecture allows operation in environments with limited airflow, such as rotary-wing, hover-intensive, or hot-climate applications, without compromising endurance or reliability.





TOA 330

COMPACT TWIN TACTICAL POWER

Mid-range 20–30 hp UAV engine, 330 cc twin-opposed two-stroke, air-cooled. Designed for medium-range endurance, payload efficiency and reliable operation.

SWISS MADE

The TOA 330 extends the proven Suter twin-opposed platform into the 20–30 hp class. It delivers stable, vibration-balanced performance in medium UAVs where payload capacity and endurance are critical. With its compact air-cooled architecture, the TOA 330 offers unmatched reliability and easy integration for both civil and dual-use missions.

Civil Applications: *Medium fixed-wing UAVs, survey and mapping drones, endurance platforms.*
Dual-Use Applications: *Kerosene-compatible variant available for long-endurance or security-related operations.*

TECHNICAL SPECIFICATIONS

Parameter	*Value*
Fuel Efficiency	325 g/kWh (BSFC)
Service Ceiling	20,000 ft (6,100 m)
Displacement	330 cc
Configuration	Twin-Opposed, two-stroke
Power Output	21.5 kW at 6,750 rpm (29.2 hp) 33.4 Nm at 6,000 rpm Torque
Weight	8,5 kg engine* + 1.8 kg exhaust & silencer + 1.5 kg 1 kW / 28 VDC regulator + 1.5 kg generator 1 Kw
Cooling	Air-cooled
Fuel	Min. 95RON (91 MON MOGAS) or AVGAS LL100
Management & Control	ECU / 12V system, automatic
Ignition System	CDI (Capacitor Discharge Ignition)
Mixture	1:60 (1,6 %) 2-stroke oil API TC
Dimensions	253 x 453 x 285 mm (L x W x H)
TBO	> 500 h

KEY FEATURES

Compact Twin Design

Twin-opposed cylinders for low vibration and smooth operation.

High Power Density

20–30 hp from a compact 330 cc displacement.

Air-Cooled Reliability

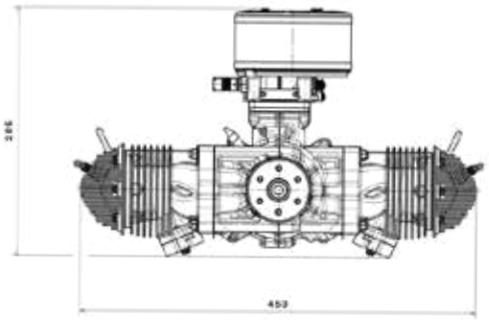
Simple integration and low maintenance.

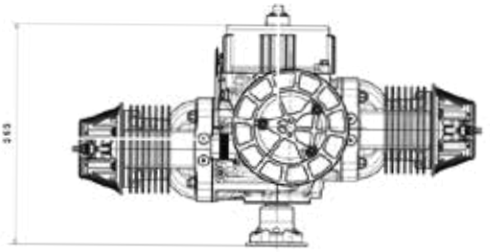
Precision Manufacturing

Precision-machined components validated for continuous operation.

POSITIONING

The TOA 330 expands Suter's UAV engine portfolio with higher thrust and endurance in a compact twin-opposed form. Ideal for platforms requiring more payload capacity, altitude performance, and long-range reliability, all within a lightweight, air-cooled package.





HF TOA 330-SDI

HEAVY-FUEL TWIN ENDURANCE-FOCUSED

24-29 hp UAV engine, twin-opposed two-stroke, air-cooled. Optimized for kerosene based fuels like Jet-A1 with JP-5 and JP-8 compatibility.

The TOA 330-SDI is Suter's heavy-fuel twin engine for medium UAV platforms. Its twin-opposed layout delivers smooth operation and low vibration, while the air-cooled architecture keeps the system light, efficient, and easy to maintain. Designed for survey and mapping missions that demand reliable mid-range power and long-duration performance, the TOA 330 combines Swiss engineering precision with field-focused durability.

Civil Applications: *Fixed-wing UAVs for mapping, survey, and training operations.*
Dual-Use Applications: *Platform-ready heavy-fuel variant for extended-range and endurance-focused operations.*

TECHNICAL SPECIFICATIONS

Parameter	*Value*
Fuel Efficiency	305 g/kWh (BSFC)
Service Ceiling	20,000 ft (6,100 m)
Displacement	330 cc
Configuration	Twin-opposed, two-stroke
Power Output	18.1 - 21.5 kW (24.6-29.2 hp) at 6,750 rpm (HF - GAS) 27.2 - 33.4 Nm at 6,000 rpm (HF - GAS)
Weight	8.8 kg engine* + 1.8 kg exhaust & silencer + 1.5 kg 1 kW / 28 VDC regulator + 1.5 kg generator 1 kW
Cooling	Air-cooled
FuelJet	All kerosene-based fuels like Jet-A1, JP-5 and JP-8
Management & Control	ECU / 12V system, automatic
Ignition System	CDI (Capacitor Discharge Ignition)
Mixture	Direct Oil Injection, 2-stroke oil API TC
Dimensions	253 × 453 × 285 mm (L × W × H)
TBO	> 500 h

KEY FEATURES

Heavy-Fuel Capability

Optimized for kerosene-based fuels such as Jet-A1, with JP-5 and JP-8 compatibility.

Compact Twin Design

Balanced twin-opposed cylinder layout for smooth operation and low vibration.

High Power Density

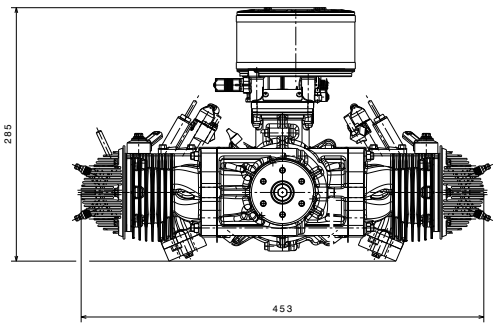
24–29 hp output from a compact 330 cc displacement.

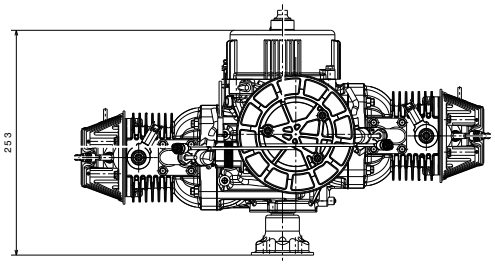
Advanced ECU Integration

ECU-managed fuel and ignition with cold-start support, altitude compensation, EGT monitoring and over-temperature protection.

POSITIONING

The TOA 330-SDI combines compact size with high endurance. Its combination of altitude capability, fuel flexibility and high efficiency makes it well suited for UAV platforms requiring extended time on wing without compromise.





HF TOA 330-APU

HYBRID POWER RANGE EXTENDER

17 kW continuous engine-generator system based on the TOA 330 platform. Designed for UAVs, hybrid aircraft, and field power applications requiring high-density energy conversion.

The TOA 330-APU transforms Suter's proven twin-opposed engine architecture into a compact, high-efficiency auxiliary power unit. Engineered as a direct-drive generator system, it delivers continuous 17 kW electrical output (60 V DC) for hybrid propulsion or onboard systems. Its precision integration of engine, generator, and ECU management enables silent, fuel-efficient range extension for long range platforms.

Applications: *Hybrid UAVs, range-extender systems for electric aircraft, field-deployable power units, mobile power generators, endurance aircraft with electrical propulsion assist.*

TECHNICAL SPECIFICATIONS

Parameter	*Value*
Fuel Efficiency	440 g/kWh (calculated on electrical power)
Service Ceiling	20,000 ft (6,100 m)
Displacement	330 cc
Configuration	Twin-opposed, two-stroke
Power	Output18.7 kW peak after voltage regulator 60VDC 17.0 kW continuous after voltage regulator 60VDC
Weight	8.9 kg engine + 1.9 kg exhaust + 9.5 kg generator
Cooling	Air-cooled
Fuel	Min. 95RON (91 MON MOGAS) or AVGAS LL100, Kerosene based fuels like Jet A-1(optional JP-5 / JP-8)
Management & Control	ECU / 12V system, automatic
Ignition System	CDI (Capacitor Discharge Ignition)
Mixture	Direct Oil Injection, 2-stroke oil API TC
Dimensions	335 × 453 × 311 mm (L × W × H)
TBO	> 500 h

KEY FEATURES

Hybrid-Ready Architecture

Seamless mechanical-electrical conversion via direct drive, no clutch required.

Continuous Power Output

17 kW @ 60 V DC sustained, 18.7 kW peak after voltage regulation.

Compact Integration

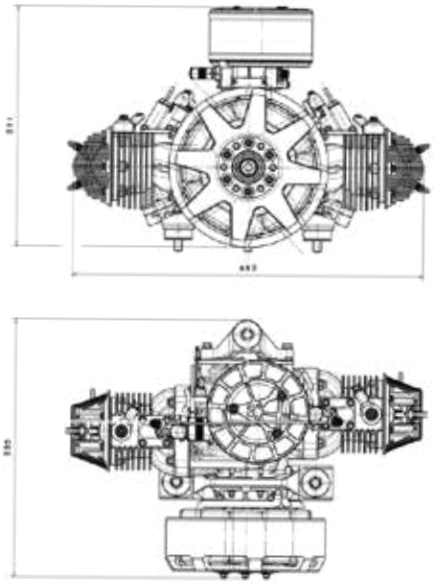
Based on the TOA 330 twin-opposed layout with forced-ventilation generator.

Fuel Flexibility

Available in gasoline or kerosene-based configurations such as Jet-A1, with optional JP-5 and JP-8 compatibility for professional unmanned platforms.

POSITIONING

The TOA 330-APU bridges Suter's combustion expertise with advanced engine-generator configurations. Compact, modular and fuel-flexible, it provides electrical power for UAV and aircraft platforms where endurance and energy efficiency are critical.



FOA 660 SDI

FOUR-CYLINDER ENDURANCE HEAVY-FUEL POWER

50 – 57 hp UAV engine, 660 cc four-opposed two-stroke, air-cooled.
Designed for large UAV platforms requiring continuous heavy-fuel performance.

The FOA 660-SDI marks Suter's entry into the large UAV propulsion class. With a four-cylinder opposed design, it delivers smooth, vibration-free performance and outstanding fuel efficiency, all within a compact and lightweight configuration. Its heavy-fuel capability (kerosene based fuels like Jet-A1 / JP-5 / JP-8) and Swiss-engineered precision make it a proven solution for long-endurance, high-payload missions.

Civil Applications: *Long-endurance surveillance UAVs, mapping platforms, twin-engine VTOL platforms.*
Dual-Use Applications: *Tactical and logistics UAV's operating on Kerosine based fuels like Jet-A1 / JP-5 / JP-8 class.*

TECHNICAL SPECIFICATIONS

Parameter	*Value*
Fuel Efficiency	305 g/kWh (BSFC)
Service Ceiling	20,000 ft (6,100 m)
Displacement	660 cc
Configuration	Four Opposed, Two-Stroke
Power Output	37.0 - 42.0 kW (50.3 - 57.1 hp) at 6,750 rpm (HF - GAS) 55.0 - 63.5 Nm at 6,000 rpm (HF-GAS)
Weight	+ 16,7 kg engine* + 2,4 kg exhaust & silencer + 1,5 kg 1 kW/28VDC regulator + 1,5 kg Generator 1 kW
Cooling	Air-cooled
Fuel	Gasoline and kerosine based fuels like Jet A-1, JP-5/JP-8
Management & Control	ECU / 12V system, automatic
Ignition System CDI	(Capacitor Discharge Ignition)
Mixture	Direct Oil Injection, 2-stroke oil API TC
Dimensions	429 x 422 x 252 mm (L x W x H)
TBO	> 500 h

Under development, planned availability July 2026

KEY FEATURES

Four-Cylinder Architecture

Balanced operation with minimal vibration and long service intervals.

Heavy-Fuel Operation

Runs on gasoline and kerosene-based fuels such as Jet-A1, JP-5, JP-8 for unified logistics.

Liquid-Cooled Design

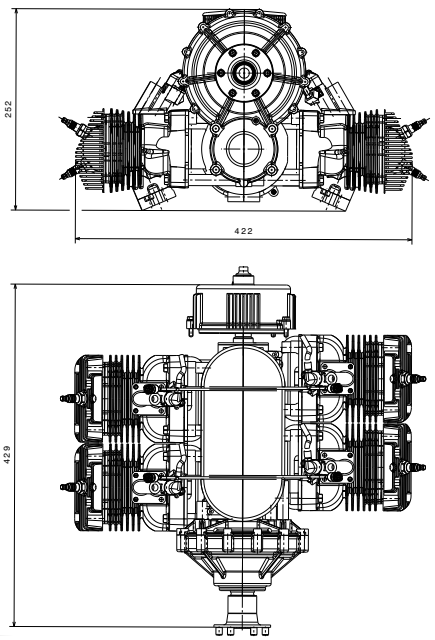
Stable power delivery under continuous or high-altitude load.

Swiss Engineering

Casted aluminium block, Nikasil cylinder coating, validated endurance performance.

POSITIONING

Purpose-built for the heavy-UAV segment. The FOA 660-SDI features a four-cylinder opposed design with proven heavy-fuel capability. It supports larger airframes, greater payload capacity, and long-endurance mission performance.



SUTER ENGINEERING
RACING DNA
UAV PROVEN

SWISS MADE

Positioning

Suter Engineering goes beyond engines, delivering total propulsion solutions that merge mechanical precision, electronic intelligence, and aerodynamic integration. From the first CAD drawing to flight-ready systems, every component is crafted to meet the highest standards of Swiss reliability.

Designed for performance and reliability

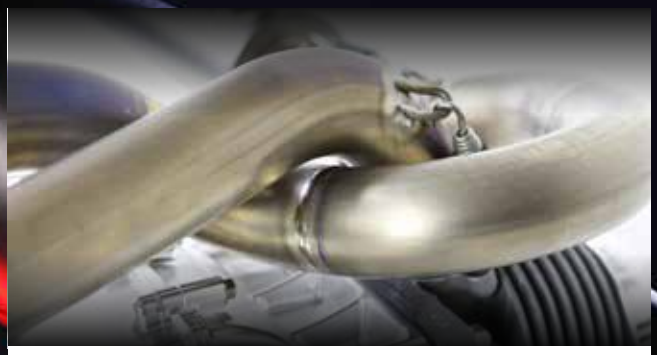
At Suter, engineering isn't just a department, it's our identity. From combustion development to digital control and hybrid integration, every system is designed for performance, reliability, and manufacturability.
We develop complete drivetrain and propulsion solutions in-house: design, simulation, machining, assembly, and validation, all under one roof. Our engineers work side by side with customers to translate demanding specifications into practical, field-proven results.

ENGINEERED *by Suter.*

ENGINEERING & CUSTOM CONFIGURATION

Every engine installation is different.
As an engineering-driven company, Suter works closely with the customer to define the optimal configuration based on platform architecture and mission profile.
Exhaust, reduction drive, generator, cooling and wiring are engineered as one integrated system.
Nothing is generic, everything is matched.
This ensures maximum efficiency, reliability and predictable performance.
From prototype to operational deployment.

ENGINEERED *by Suter.*



CUSTOM EXHAUST SYSTEMS

High-tech titanium exhausts engineered as an active part of the engine, optimizing power, efficiency and noise. Each exhaust system is tailored to the engine, airframe and mission profile together with the customer.

LIFECYCLE SUPPORT

Engineering support continues throughout the system lifecycle, from integration to operation. Documentation, spares and upgrade paths ensure long-term reliability and mission readiness.

REDUCTION DRIVE

Engineered gearboxes match engine RPM to propeller or rotor speed for maximum thrust efficiency. Gear ratios are selected per platform to reduce vibration, noise and long-term mechanical wear.

COOLING & AIRFLOW MANAGEMENT

Optimized cooling concepts ensure stable engine temperatures under continuous load and limited airflow. Airflow routing and cooling strategy are defined together with the customer and airframe designer.

MOUNTING & INSTALLATION

Flexible mounting solutions allow horizontal or vertical installation without compromising reliability. Engine mounts are customized to the airframe to minimize integration effort and vibration.

GENERATOR ADD-ON

Integrated generator solutions provide mission-critical electrical power directly from the engine. Output and configuration are matched to platform architecture and onboard power demand.

ENGINEERING & SYSTEM INTEGRATION

Suter's engineering team provides end-to-end support, from CAD integration and digital control setup to endurance validation and documentation for export compliance (Swiss / EU Dual-Use Regulations, ISO 9001, DO-160 familiarity). Our hybrid-ready architecture ensures seamless adaptation across propulsion, power, and mobility domains.

COMPLIANCE & RESPONSIBILITY

All Suter engines and power systems are developed under Swiss and EU dual-use export regulations, manufactured to ISO 9001 quality standards, and tested in accordance with DO-160 aerospace environmental procedures.
Swiss Engineering. Racing DNA. UAV Focus.

Developed and manufactured in Switzerland, delivering endurance, efficiency, and precision for unmanned and hybrid systems worldwide.

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