

**M65**

48 kW (657 hp) maximum power

## Propulsion Units - Fleet and Commercial Applications

From the Perkins Volvo partnership, and based on a new internally developed 3.6 litre, 4-cylinder, direct injection marine diesel engine.

- The most compact package in its class - offers best design flexibility for new boat and re-power installations.
- Perkins engine features for stability and durability - increases downtime and service costs.
- 500 hour service intervals - going to operate in time and money.



### Reliable and Durable Power

- Perkins and Volvo's long-term vision of exceptional reliability and durability are built into the Volvo/Perkins V60.
- Manufactured to internationally approved standards (ISO-9000).
- Developed to meet the unique demands of the marine environment including saltwater coating and steering equipment.
- High capacity heat exchange equipment with copper-nickel tube stock ensuring low component operating temperatures for maximum stable and durable performance.

### Cost Efficient Power

From the optimisation of all control devices to engine direct injection systems, clean combustion has not been at the expense of fuel consumption with levels as low as 2.0 g/kWh.

- Service maintenance intervals up to 500 hours with all service ports conveniently placed for easy access.
- These features combined with easily accessible, competitively priced parts provide exceptional cost of ownership benefits.

### Quiet, Clean Power

Quiet and environmentally friendly with low noise, low particulate and low emissions. Developed to meet current and future emission legislation.

### Compact Power

The most compact engine in its class providing 3.6 litre durability from a 2.6 litre package.

### Global Service

Unfaded service network with over 4,000 outlets in 160 countries.



## Propulsion Unit Pleasure and Commercial Applications

Although the turbocharged T100, 4-cylinder, direct injection marine diesel, the Perkins T85T gives the user generations of quiet, compact, low-emission, protected marine engines in the Perkins T8500 range.

End user benefits are:

- Proven engine features for reliability and durability minimize engine downtime and service costs.
- Environmentally friendly designed with future emissions legislation in mind.
- 500 hour service intervals saving to operator in time and money – 2 years to compare running costs.
- One of the most compact engines in its class offers low design flexibility with water resistant and engine insulation.



### Quiet, Clean Power

- Operating low noise level (technical structure, technical design, acoustic treatment, acoustic insulation, acoustically-treated components). The Perkins T8500 M85T also has a silencing enclosure giving you low engine noise levels under all use.
- Having it in a boat of sensitive areas will not be allowed by future proposed International Civil Aviation, the M85T is environmentally sensitive and operates and works freely with protection in low dB and no longer visible to the coastline.

### Reliable and Durable Power

- Perkins and Volvo's traditional values of exceptional security and durability are united in the M85T. Manufactured to standards which ensure customer approval and recognized internationally for ISO 9001 and Lloyd's Quality Assurance Approval Scheme.

- The low designed engine cover enclosure and base provide extra stability from an engine designed for the extreme marine environmental conditions.
- Developments mean the engine demands of the marine environment causing corrosion, cooling and starting improvements.

### Cost Efficient Power

- Thanks to Volvo's mastery of an turbocharger's turbine, direct injection system, direct turbocharger, common rail, the expense of fuel consumption will meet or beat a 2.0 litre, 100hp.
- Operate with an a dual speed/rev when starting when engine is purchased. This is a particularly important feature in cold start operating from anchorage.
- Low fuel consumption, low cost replacement parts and low cost service intervals to reduce

fleet provide excellent cost of operating benefits.

### Compact Power

- One of the most compact engines in its class providing 1.5 litre capacity with a service profile better than 2 litre competitors.

### Global Service

- An excellent service network with over 4,000 outlets providing technical help, parts and alternative support services.
- Replacement services are available in cold starting, hot start, parts and technical assistance world wide (24hrs).
- A growing top quality service network offering a better cost than 2 litre engine specialists from 2000 hours per year.





## Propulsion Units - Pleasure and Commercial Applications

Long established in all applications as the benchmark for reliability and durability from cranes, earth-to-service design, based on a naturally aspirated, 5.6 litre, 4 cylinder, direct injection marine diesel - the engine you can trust.

- Proven reliability and durability in demanding yards, motor coaches, ferries, fishing craft, sea craft, etc.
- Custom designed marine package for multi-application use offering efficient and economical operation.
- Excellent operating down to 0°C (-32°F).
- Serviced by an unrivalled global network.



**6000 SACRAM 1500**

### Reliable and Durable Power

- International class of exceptional reliability and durability over 10,000 hours (3000 MHP).
- 11 proven production hours in 10 minute service.
- Manufactured by international approved standards and class.
- Designed to receive on-site service and to be repaired on-site including complete cooling and lubricating systems.
- Approved main propulsion (ACEP).
- Construction materials used throughout.
- Rigged, identifiable fixtures including shaft system, hose, high performance, synthetic oils, construction and controlled expansion valves, forged sea chest and anti-fring gear drive, sea water pump.

### Safety

- Interlocks engine on designated work with operators in area.
- Total water cooled exhaust manifold system without fuelled water discharge enhance diesel engine safety.

### Ease of Installation

- Over 10 years of marine design and application expertise means that the engine is designed for quick installation without complex engine availability.
- Engine designed with built-in adjusters in mounting and exhaust system reducing installation requirements.

### Performance

- Maximum 3000 MHP provides optimum performance to include operation with smooth, clean and responsive operation for both pleasure and commercial applications.
- Supermarine performance is achieved by integrated global design to ensure marine specifications, including international service.

### Compact Power

- Designed to be compact in size to allow efficient and efficient engine compartment.
- Design flexibility and advanced engineering makes the engine height fit all stages of vessels.

### Global Service

Automated network with 6000+ outlets in 150 countries giving rapid technical support and maintenance services.







**Propulsion Unit –  
 Pleasure and Commercial Applications**

The new generation of Inpulsor 4 has the most sophisticated design higher than the previous Inpulsor generation.

- Premium engine features for reliability and durability – reduced engine downtime and service costs
- Clean, quiet power – designed to operate 100% above the no-load sea condition with no noise
- Lowest cost-of-ownership in the class – it pays for its own running costs
- Unbeatable global and local service support – direct service relationships are



**Reliable Power**

- With over 1 billion hours of total performance and in thousands of applications, the new generation represents an evolutionary design milestone
- Incorporated by sea class standards sea water service – in design it cannot fail before
- High efficiency combustion with high capacity turbocharger ensures enough available shaft horsepower for maximum
- High capacity facilities with one-rotation crankshaft allow highly efficient utilization in full operation
- The advanced electronic speed and control system (AEMF) is

**Durable Power**

- The new generation engine produces power at least 2,000 hours more service life than leading a low-costed
- Low-speed rated speed to reduce wear and tear

**Low-Cost of Ownership**

- Greater efficiency and conversion when running with no-load conditions. This is particularly important when conventional diesels running their own generator
- Low maintenance, low cost of parts and accessories include electronic control or computerized control systems and more fuel injection timing data
- More easy maintenance adjustments made possible by the convenient construction of service ports, for easy accessibility

**14 000 200**

**Clean and Quiet Power**

- Construction of Inpulsor 4C and all feature emissions reduction, the bottom line is a cleaner, more stable operation
- The new generation engine has electronically controlled and the electronically controlled through the operating speed range
- The advanced electronic control system is the most advanced in the class

**Global Service**

- Unbeatable worldwide with over 1,000 service and maintenance and 200+ authorized distributors support service
- Upgrade the quality service package online with our new 24-hour emergency support line

















Standardised performance data

	Model	Power (kW)	Max. Torque (Nm)
1	M215C	21.0	100
2	M185C	18.5	90

Standardised performance data is based on ISO 9249 test conditions.

Standardised performance data is based on ISO 9249 test conditions.

## STANDARD MODEL SPECIFICATION

- 1 Fuel tank (fuel exchange) capacity 100 litres (optional 150 litres)
- 2 12V battery
- 3 12V battery (optional) 100Ah
- 4 12V battery (optional) 150Ah
- 5 12V battery (optional) 200Ah
- 6 12V battery (optional) 250Ah
- 7 12V battery (optional) 300Ah
- 8 12V battery (optional) 350Ah
- 9 12V battery (optional) 400Ah
- 10 12V battery (optional) 450Ah
- 11 12V battery (optional) 500Ah
- 12 12V battery (optional) 550Ah
- 13 12V battery (optional) 600Ah
- 14 12V battery (optional) 650Ah
- 15 12V battery (optional) 700Ah
- 16 12V battery (optional) 750Ah
- 17 12V battery (optional) 800Ah
- 18 12V battery (optional) 850Ah
- 19 12V battery (optional) 900Ah
- 20 12V battery (optional) 950Ah
- 21 12V battery (optional) 1000Ah

## OPTIONAL EQUIPMENT

- 1 12V battery (optional) 100Ah
- 2 12V battery (optional) 150Ah
- 3 12V battery (optional) 200Ah
- 4 12V battery (optional) 250Ah
- 5 12V battery (optional) 300Ah
- 6 12V battery (optional) 350Ah
- 7 12V battery (optional) 400Ah
- 8 12V battery (optional) 450Ah
- 9 12V battery (optional) 500Ah
- 10 12V battery (optional) 550Ah
- 11 12V battery (optional) 600Ah
- 12 12V battery (optional) 650Ah
- 13 12V battery (optional) 700Ah
- 14 12V battery (optional) 750Ah
- 15 12V battery (optional) 800Ah
- 16 12V battery (optional) 850Ah
- 17 12V battery (optional) 900Ah
- 18 12V battery (optional) 950Ah
- 19 12V battery (optional) 1000Ah

## PERFORMANCE



## GENERAL DATA

- 1 12V battery (optional) 100Ah
- 2 12V battery (optional) 150Ah
- 3 12V battery (optional) 200Ah
- 4 12V battery (optional) 250Ah
- 5 12V battery (optional) 300Ah
- 6 12V battery (optional) 350Ah
- 7 12V battery (optional) 400Ah
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- 19 12V battery (optional) 1000Ah

## PERFORMANCE





**Perkins** *SABRE* M215C

215 hp (158 kW)

Marine Power

Light Duty Commercial

## The Perkins Sabre M215C



Equipped with Stern Power™  
1800 Series sterndrive for  
direct-coupled or remote drive  
applications



### PERFORMANCE CHARACTERISTICS

Operating conditions: 1000 m, 1000 h, 1000 h, 1000 h

- Maximum power (kW)
- Maximum torque (kNm)
- Maximum fuel consumption (litres/hour)

Operating conditions: 1000 m, 1000 h, 1000 h, 1000 h

Operating conditions: 1000 m, 1000 h, 1000 h, 1000 h

### PERFORMANCE CHARACTERISTICS

- Maximum power (kW)
- Maximum torque (kNm)
- Maximum fuel consumption (litres/hour)
- Maximum speed (rpm)
- Maximum efficiency (%)
- Maximum torque (kNm)
- Maximum fuel consumption (litres/hour)
- Maximum speed (rpm)
- Maximum efficiency (%)
- Maximum torque (kNm)
- Maximum fuel consumption (litres/hour)
- Maximum speed (rpm)
- Maximum efficiency (%)

### PERFORMANCE CHARACTERISTICS

- Maximum power (kW)
- Maximum torque (kNm)
- Maximum fuel consumption (litres/hour)
- Maximum speed (rpm)
- Maximum efficiency (%)
- Maximum torque (kNm)
- Maximum fuel consumption (litres/hour)
- Maximum speed (rpm)
- Maximum efficiency (%)

### PERFORMANCE CHARACTERISTICS



### PERFORMANCE CHARACTERISTICS

Maximum power (kW)	100
Maximum torque (kNm)	100
Maximum fuel consumption (litres/hour)	100
Maximum speed (rpm)	100

Maximum power (kW)	100
Maximum torque (kNm)	100
Maximum fuel consumption (litres/hour)	100
Maximum speed (rpm)	100

### PERFORMANCE CHARACTERISTICS

Operating conditions: 1000 m, 1000 h, 1000 h, 1000 h



## 225 hp (165.5 kW) Maximum Power

## Pleasure

- Most compact package in the class with low-noise housing - can be used as engine or generator
- Proven engine features for reliability and durability - drawing from the extensive 50-year
- Environmentally friendly - meeting all current and proposed emissions legislation using a water-based emissions system
- Unrivalled worldwide parts and service network - available wherever you go
- Lowest cost of ownership in the class - based on complete engine costs



### RELIABILITY

- High quality materials supported with specialist details ensure the greatest operating temperature for maximum power and fuel economy
- Components that have been developed for industrial power reliability combined with all leading equipment
- Low stress engine service water pumps are regularly demonstrated in the class to include cooling and turbine services
- Strategic design of water flow components using variable speed and volume air systems for best results
- The proven advantage of water cooling for turbine cycle power and low engine noise and vibration

### INNOVATIVE PERFORMANCE SPECIFICATION

- Two cooling circuits allow you to cool both your hot gas - integrated cooling system and a water draw off system for turbine cycle cooling, ensuring optimum life of the turbine cycle
- The advanced cooling system allows the power engine performance performance and low noise levels to be achieved
- A through turbine air flow system with large air intake flow and large volume of water pump to improve air flow and turbine performance
- Variable speed air circulation for turbine cycle and air draw off for turbine cycle for engine maximum power and low noise and vibration

### COST OF OWNERSHIP

- Complete engine and parts supply available to ensure the lowest cost of ownership for the life of the engine and the lowest cost of operation for the engine cycle

### EASE OF INSTALLATION

- Easy access and maintenance before or after start or when installed
- On site conversion systems to permit conversion of existing equipment to conventional and water turbine
- Super compact form factor engine systems are the most compact engine in class in all aspects of power performance and reliability

### SERVICE

- Proven service network with 1000+ service centres in 170 countries
- Agreed to supply world coverage of parts and service for the engine reliability and low cost of ownership
- Complete service network including 24-hour on call system of engine parts







## 265 hp (195 kW) Maximum Power

## Pleasure

- **Reliable power**  
More of it, without maintenance costs.
- **Clean, quiet power**  
More for your customers and less for you. No emissions. More fun out of water.
- **Unmatched global and local service support**  
Always there for you. Supporting the customer, protecting the investment.



### RELIABILITY

- More top technology features, proven & reliable, proven, built right into the engine.
- Exhaust cooling system, engine cooling system, water pump, fuel system & components.
- Low oil consumption, low smoke, low oil, low emissions.
- Standard 100-hour service interval, 200-hour service interval, 400-hour service interval.
- 100-hour oil change service interval, 200-hour service interval, 400-hour service interval.
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### LOW EMISSIONS

- 100-hour oil change service interval, 200-hour service interval, 400-hour service interval.
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### EASY LOW COST MAINTENANCE

- 100-hour oil change service interval, 200-hour service interval, 400-hour service interval.
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### EASE OF INSTALLATION

- 100-hour oil change service interval, 200-hour service interval, 400-hour service interval.
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### SALES

- 100-hour oil change service interval, 200-hour service interval, 400-hour service interval.
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## 300 hp (221 kW) *Redpower™*

## Pressure

- **Reliable power**  
Breaks critical operational service costs
- **Clean, quiet power**  
Breaks fuel operation combined with low noise for owners - better fuel and better quality
- **Included global and local service support**  
Always there for you - supporting systems, protecting investment



### RELIABILITY

- Redpower™ technology delivers superior performance in both open and confined waters
- Superior cooling efficiency, providing low clean fuel and low maintenance - no major investment later
- Low maintenance interval with longer life of wear - low operating cost and better customer
- 100-hour test program to guarantee high wear-life performance
- Standard 3-year/3000-hour warranty - the best performance/warranty available today and every replacement
- 100-hour test for oil quality with comprehensive protection for your investment, includes other wear-life components
- Additional power for variable speed in the field
- Multiple support lines throughout your dealer - quality service

### LOW EMISSIONS

- Meets and exceeds all applicable emissions regulations today - up to full Federal Emissions regulation for 2007 in closed or partially enclosed water operations and includes, where applicable
- The Perkins 300 (221 kW) advanced system generates superior fuel and air emissions - featuring a clean burn - featuring a power of 100 low-high performance mode
- Provides an amount of power to allow a more quiet and low-maintenance life. The latest variable speed generation is essential to the advanced performance system and operation

### LOW COST MAINTENANCE

- Superior water intake cooling & filtration & protection of pump parts
- Built-in water intake treatment and protection from contaminants and debris - low maintenance, better performance, less cost

### EASY INSTALLATION

Simple installation is made easier by engine block/flange/hull-mounting flange.

- Standard engine block/flange helps to align and secure the engine/water intake
- Built-in water intake and engine/water intake protection
- Standard engine/water/flange block/flange/hull-mounting flange - the hull-mounting flange also provides an all-round of power performance and support

### SERVICE

- Superior service/repairs - always with a 24-hour or 24-hour
- Comprehensive parts - always available - always in stock - always in stock - always in stock - always in stock
- Superior service/repairs - always with a 24-hour or 24-hour
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Values are based on test data  
 ISO 15850 Standard at 1500 rpm

• Maximum engine speed	2100 rpm
• Maximum torque	900 Nm
• Fuel consumption at 1500 rpm	200 g/kWh

Engine torque profile is shown against wide range operating speeds. Fuel consumption is shown at 1500 rpm. Values are based on test data. ISO 15850 Standard at 1500 rpm.

## ENGINE SPECIFICATION

- Four valve four cylinder turbo engine with gas flow and 100% air flow control with swirl
- 100% throttle
- 100% torque without turbo
- 100% torque without turbo
- 100% torque without turbo
- 100% torque without turbo
- 100% torque without turbo
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- 100% torque without turbo
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## OPTIONAL EQUIPMENT

- 100% torque without turbo
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## GENERAL DATA

<b>BORE</b>	100mm (3.937in)
<b>STROKE</b>	127mm (5.000in)
<b>CUBIC CAPACITY</b>	3.0 litres (0.850 cu ft)
<b>CYCLE</b>	4 stroke
<b>NO. OF CYLINDERS</b>	4 in line
<b>APPLICATION</b>	Integrated turbocharger design as used
<b>COMBUSTION SYSTEM</b>	Common direct injection
<b>ENGINE DESIGN</b>	100% throttle swirl flow
<b>FUEL INJECTION PUMP</b>	Direct inline with fuel control and electrically actuated
<b>ENGINE OPERATING ANGLES</b>	Maximum combustion, 100% throttle
<b>POWER TAKE-OFF</b>	100% torque from top of 100% throttle
<b>WEIGHT (kg)</b>	1000 (2200 lbs) engine only, 1100 (2420 lbs) with 100% throttle

- 100% torque from top of 100% throttle
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## DIMENSIONS



## CONTACT US

**TATKOMAK**  
 100% torque from top of 100% throttle

**TATKOMAK**  
 100% torque from top of 100% throttle

**TATKOMAK**  
 100% torque from top of 100% throttle



# Perkins *SABRE*

## TR 370 TI

### 370 hp (273 kW)

- Best-in-class weight package in its class – only 1,600 kg
- Unique fuel injection system gives environmentally friendly operation under start-up conditions.
- Unrivalled worldwide service network.



### RELIABILITY

- Rigorously designed under-temperature component operating temperatures for reliable and exceptionally quick start-up.
- Manufacturing process approved in the rigorous ISO 9001 standard underlining Perkins approach to reliability and quality management.
- Development of the engine performed in a testing environment including accelerated testing and ageing programs.
- Extensively field tested in operation – including 100,000 off test and test cycles prior to completion.

### PERFORMANCE

- The TR 370 provides high performance with smooth and responsive operation.
- Comprehensive component attention to weight saving techniques has resulted in the TR 370 having the best power-to-weight ratio in its class achieving 100 g/kWh.
- Emissions capabilities are certified to meet global standards to ensure that the engine performs well across all environments.

### EASE OF INSTALLATION

- Compact size and low maintenance requirements make it easy to install without requiring special accessibility.
- Flexible installation, highly customised fit Application Engineers offering world-class support and expert advice to provide maximum life and performance.

### SERVICE

- Perkins has an unrivalled worldwide service network of 300+ distributors in 140 countries – supported by extensive dealer networks, offering over 1000 service points worldwide.

SEE [www.perkins.com](http://www.perkins.com)

Perkins

*Power & Prestige*



### PERFORMANCE DATA

- 1. Maximum torque at 1800 RPM
- 2. Maximum power at 2000 RPM
- 3. Maximum torque at 1800 RPM
- 4. Maximum power at 2000 RPM

Performance based on ISO 9249 engine test conditions  
 Maximum torque at 1800 RPM  
 Maximum power at 2000 RPM  
 Maximum torque at 1800 RPM  
 Maximum power at 2000 RPM

RT370T (RT370T) is a 370 kW (500 hp) engine with a maximum torque of 140 kNm (103,000 lb-ft) and a maximum power of 140 kW (188 hp).

## PERFORMANCE DATA

### STANDARD EQUIPMENT

- 1. 12V battery
- 2. 12V battery charger
- 3. 12V battery charger
- 4. 12V battery charger
- 5. 12V battery charger
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### OPTIONAL EQUIPMENT

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### CONNECTIONS



### DIFFUSER



### GENERAL DATA

<b>BORE</b>	130mm (5.118 in)
<b>STROKE</b>	130mm (5.118 in)
<b>CAPACITY</b>	6.7 litres (1.77 cu ft)
<b>CRUISE</b>	1500 rpm
<b>NO. OF CYLINDERS</b>	6
<b>APPLICATION</b>	Trucks, tractors, generators, etc.
<b>CONSTRUCTION</b>	Direct injection with turbocharger
<b>ENGINE ROTATION</b>	180° clockwise
<b>FUEL PUMP</b>	Common rail
<b>INSTALLATION</b>	Horizontal or vertical
<b>POWER TAKE-OFF</b>	Available for PTO
<b>WEIGHT</b>	1200 kg (2645 lb)