

The electrical Rim-Driven Thruster consist of an electric torque motor which drives an inside propeller. This configuration allows very efficient along with the special power electronics precisely controllable relapses at a very high efficiency. The thruster is designed to be used in water depths up to 6,000 m. By the consistent application of the pressure-tolerant technology the thrusters are very robust and nearly maintenance-free. The thrusters are responsive, powerful and easy to integrate and will provide a unique combination of ultra-compact power and high maneuverability



## Benefits

- Unique technology without seals
- Two solid molded parts - No sealing needed, no oil or air inside
- High reliability, rugged design
- Only three moving parts – direct driven propeller – no gear
- High torque at low RPM
- Low friction Seawater lubricated bearings – simple to service
- Hub less propeller - low risk of entanglement
- Easy exchangeable propeller
- Symmetrical forward and reverse thrust
- Integrated temperature monitoring
- Diverse connection options
- Different voltage and interface options

Kraken Power GmbH

Hansestraße 21  
D-18182 Bentwisch  
Germany

Fon: +49 (0) 381 66098699  
[www.krakenpower.de](http://www.krakenpower.de)  
[info@krakenpower.de](mailto:info@krakenpower.de)

# SeaThrust T100

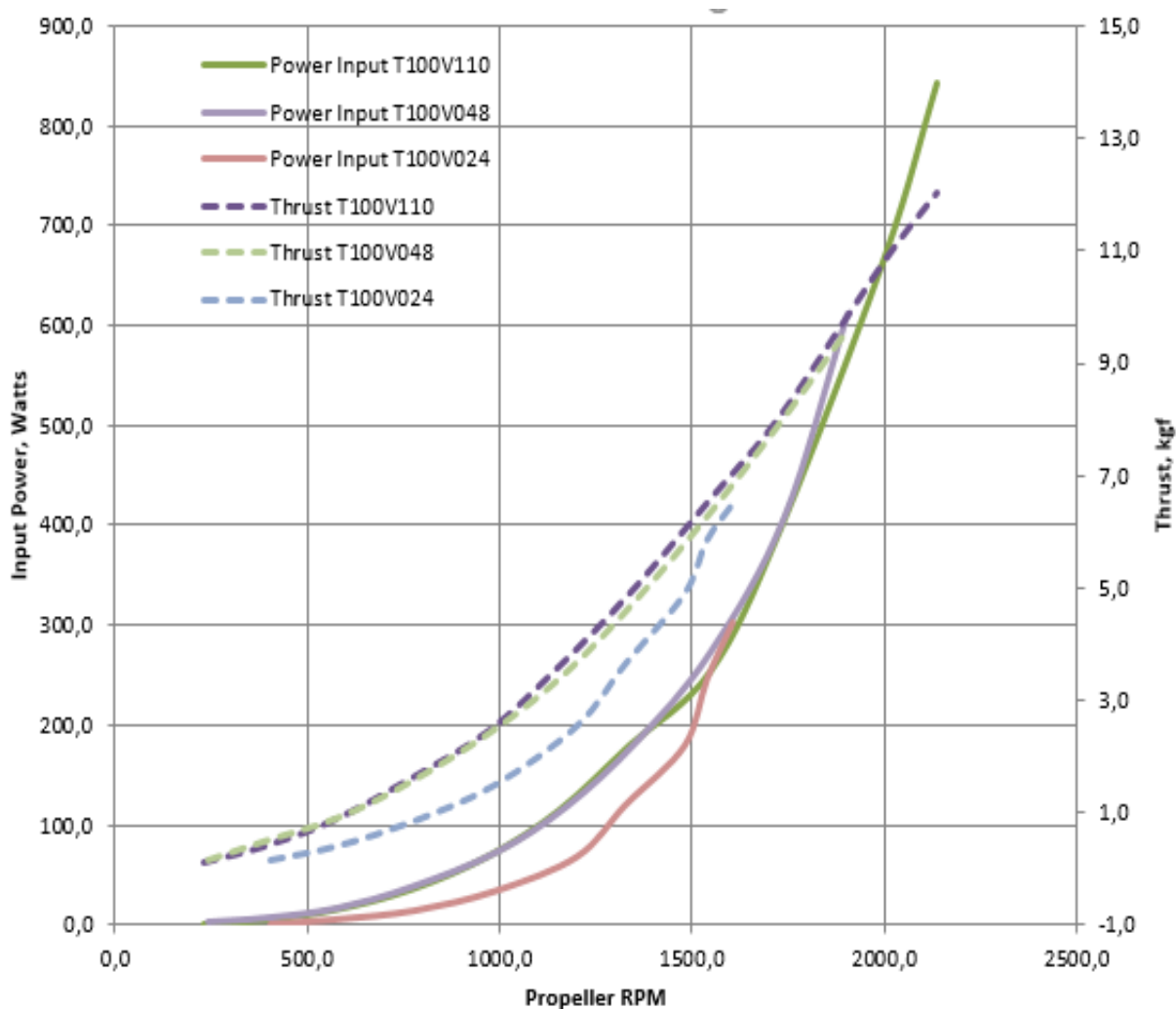


**KRAKEN**  
Power GmbH

## Specifications

- Max. depth: 6,000 m
- Thrust: 12 kgf
- Power: 850 W
- Voltage: 24, 48, 110 VDC
- Max. rpm: 2,300 rpm
- Weight: 2.4 kg (air), 1.7 kg (fresh water)

## Performance curves



Kraken Power GmbH

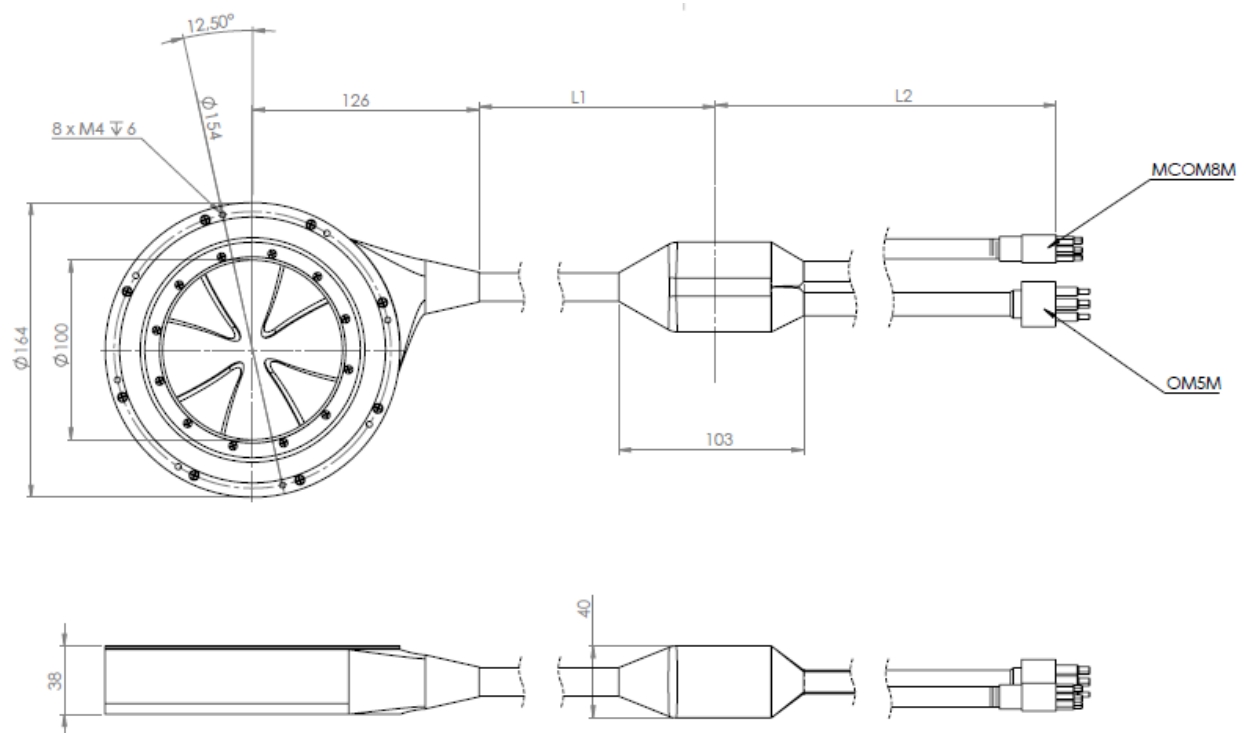
Hansestraße 21  
D-18182 Bentwisch  
Germany

Fon: +49 (0) 381 66098699  
[www.krakenpower.de](http://www.krakenpower.de)  
[info@krakenpower.de](mailto:info@krakenpower.de)

## Applications

- UUVs
- ROVs
- AUVs
- Manned underwater vehicles
- Surface crafts

## Dimensions



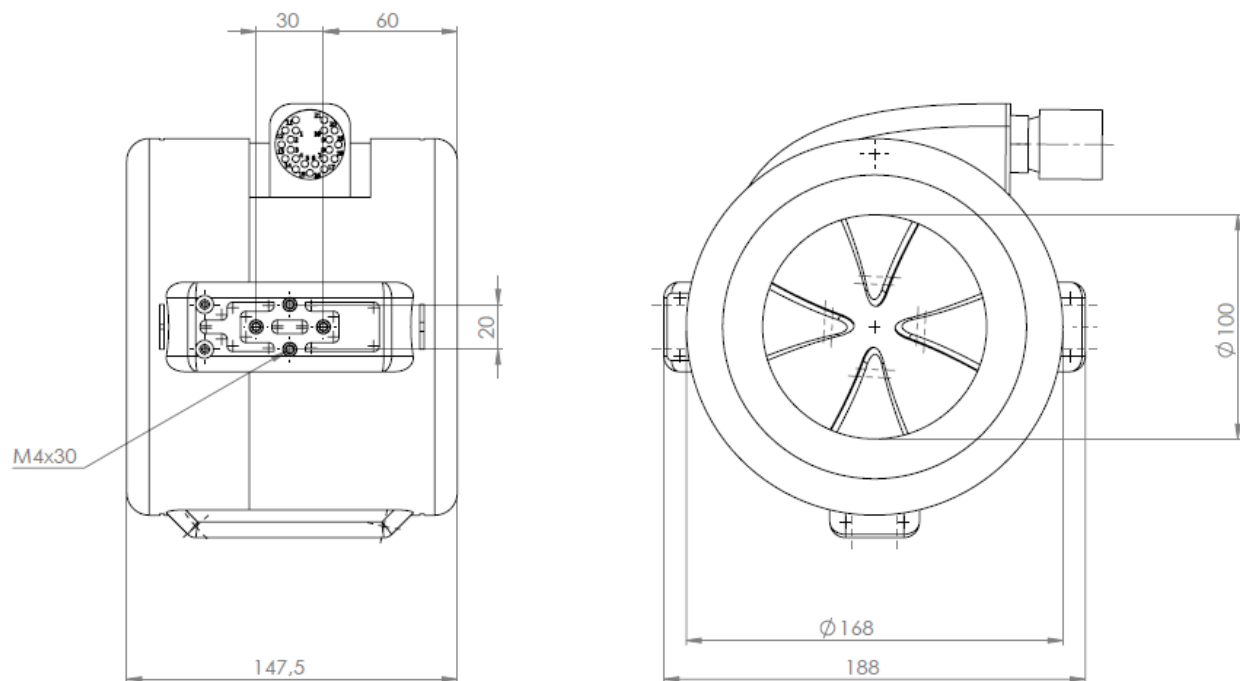
Kraken Power GmbH

Hansestraße 21  
D-18182 Bentwisch  
Germany

Fon: +49 (0) 381 66098699  
[www.krakenpower.de](http://www.krakenpower.de)  
[info@krakenpower.de](mailto:info@krakenpower.de)



## Dimensions with duct



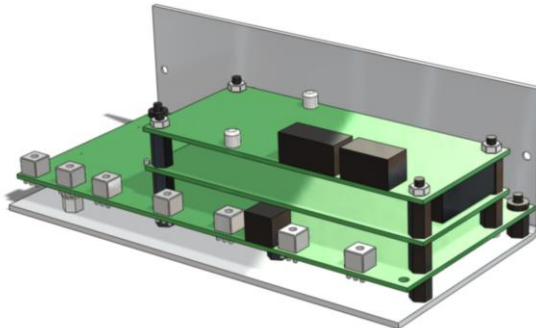
Kraken Power GmbH

Hansestraße 21  
D-18182 Bentwisch  
Germany

Fon: +49 (0) 381 66098699  
[www.krakenpower.de](http://www.krakenpower.de)  
[info@krakenpower.de](mailto:info@krakenpower.de)

## Control Electronic

---



## Specifications

---

- 2-Phase high current Microcontroller based thruster driver
- RPM- or Current control
- simple reprogramming
- Software package on demand
  
- Operation depth:     pressure tolerant 6,000m or pressure vessel
- Power:                 1 kW
- Voltage:               24 - 120 VDC
- Interface:             RS485; RS422; CAN; RS232; Analog  $\pm$  5, 10, 24 VDC

Kraken Power GmbH

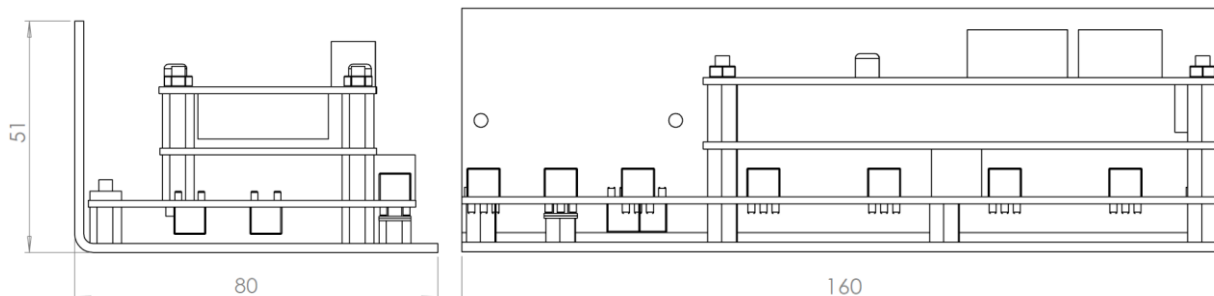
Hansestraße 21  
D-18182 Bentwisch  
Germany

Fon: +49 (0) 381 66098699  
[www.krakenpower.de](http://www.krakenpower.de)  
[info@krakenpower.de](mailto:info@krakenpower.de)



## Dimensions

---



Kraken Power GmbH

Hansestraße 21  
D-18182 Bentwisch  
Germany

Fon: +49 (0) 381 66098699  
[www.krakenpower.de](http://www.krakenpower.de)  
[info@krakenpower.de](mailto:info@krakenpower.de)



## Configurations and Part Numbering

### T100VvvvDddEFHG

#### vvv - Supply Voltage

024	24 VDC (18-30 VDC)
048	48 VDC (42-57 VDC)
072	72 VDC (65-86 VDC)
110	110 VDC* (85-114 VDC)
0HV	Please ask for higher bus voltage

\* Controller with bus voltage of 110VDC and higher need an additional nominal 24VDC (9-76 VDC) low voltage power supply.

#### dd - Working Depth

10	< 1,000 m
60	1,000 ⇔ 6,000 m
99	Full Ocean Depth on demand

#### E - Propeller Direction

L	CCW
R	CW
S	Symmetric

#### F - Duct

D	Ducted Thruster
N	No Duct
S	Special Duct

#### H - Controller Interface

0	RS422
1	RS485
2	RS232
3	CAN
4	Analog
5	PWM

#### G - Controller Design

A	NOPT - Open Frame Electronic Board
B	PBOF - Open Frame Electronic but pressure resistant to 6,000 m (20,000 ft)
C	PT - Pressure Tolerant Molded (DNS-Silicone)

Kraken Power GmbH

Hansestraße 21  
D-18182 Bentwisch  
Germany

Fon: +49 (0) 381 66098699  
[www.krakenpower.de](http://www.krakenpower.de)  
[info@krakenpower.de](mailto:info@krakenpower.de)