



Carrying marine clients for fishing and work boats



## Customize marine vessels for fishing and work boats

Customized equipment, such as the 22'500' hull engine, is available for fishing and work boats. The equipment is designed for use in a wide range of applications, including: fishing, work boats, and other marine applications. The equipment is designed for use in a wide range of applications, including: fishing, work boats, and other marine applications. The equipment is designed for use in a wide range of applications, including: fishing, work boats, and other marine applications.

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A variety of customized equipment is available for fishing and work boats. The equipment is designed for use in a wide range of applications, including: fishing, work boats, and other marine applications. The equipment is designed for use in a wide range of applications, including: fishing, work boats, and other marine applications. The equipment is designed for use in a wide range of applications, including: fishing, work boats, and other marine applications.

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### Equipment

- 1. 22'500' Hull Engine
- 2. 22'500' Hull Engine
- 3. 22'500' Hull Engine

- 1. 22'500' Hull Engine
- 2. 22'500' Hull Engine
- 3. 22'500' Hull Engine
- 4. 22'500' Hull Engine

## Marinepower from 200 to 1400 AD (30%)

• Climbing up the coast from the Bay of Biscay to the Mediterranean Sea, Atlantic power grew from a small number of fishing vessels to a fleet of sailing vessels that included:

- *Caravel* (small, maneuverable, lateen-rigged vessels) capable of independent block sailing (sailing by the trade winds)
- *Large square-rigged sailing ships* (wider, slower, but carrying more cargo and requiring a larger crew)

• *Technological developments* (improved rigging, hull design, and navigation)

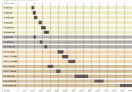
- *Improved rigging* (lateen rigging, square rigging)
- *Hull design* (carvel planking, keel, stern post, stern rudder)
- *Navigation* (compass, astrolabe, celestial navigation, portolan charts)
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- *Navigation* (compass, astrolabe, celestial navigation, portolan charts)



Continuing production efforts for the new vessel. The ship's hull will be the first of four to be built at the shipyard's existing facilities. The remaining three hulls will be built at a new shipyard to be built in the state of Maryland. The new vessel will be built to meet the needs of the U.S. Navy and the U.S. Coast Guard. The ship's hull will be built to meet the needs of the U.S. Navy and the U.S. Coast Guard. The ship's hull will be built to meet the needs of the U.S. Navy and the U.S. Coast Guard.

**Expansive and flexible for 2006**

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**Process and advanced technology**

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**Project, completed on schedule**

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**For the U.S. Navy and U.S. Coast Guard**

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Figure 1-31



Figure 1-32



Figure 1-33



Figure 1-34



Figure 1-35



Figure 1-36



Figure 1-37



Figure 1-38



Figure 1-39



Figure 1-40

Figure 1-31  
Figure 1-32  
Figure 1-33  
Figure 1-34  
Figure 1-35  
Figure 1-36  
Figure 1-37  
Figure 1-38  
Figure 1-39  
Figure 1-40

# Specifications and power ratings turbo engines

Engine	Cylinder	Displacement cm <sup>3</sup> / in <sup>3</sup>	Bore mm / in	Stroke mm / in	Power		
					kW (PS)	rpm	rev/min
<b>BMW N14</b>	4	1,798	74.4	85.0	5,500	135	5,500
<b>BMW N18</b>	4	1,798	74.4	85.0	5,500	135	5,500
<b>BMW N20</b>	4	1,798	74.4	85.0	5,500	135	5,500
<b>BMW N26</b>	4	1,798	74.4	85.0	5,500	135	5,500
<b>BMW N20T</b>	4	1,798	74.4	85.0	5,500	135	5,500
<b>BMW N26T</b>	4	1,798	74.4	85.0	5,500	135	5,500
<b>BMW N47</b>	4	1,798	74.4	85.0	5,500	135	5,500
<b>BMW N47T</b>	4	1,798	74.4	85.0	5,500	135	5,500
<b>BMW N55</b>	6	2,965	85.5	91.4	5,500	200	5,500
<b>BMW N55T</b>	6	2,965	85.5	91.4	5,500	200	5,500
<b>BMW N57</b>	4	1,798	74.4	85.0	5,500	135	5,500
<b>BMW N57T</b>	4	1,798	74.4	85.0	5,500	135	5,500
<b>BMW N63</b>	8	4,400	85.5	104.0	5,500	250	5,500
<b>BMW N63T</b>	8	4,400	85.5	104.0	5,500	250	5,500
<b>BMW N13</b>	4	1,798	74.4	85.0	5,500	135	5,500
<b>BMW N17</b>	4	1,798	74.4	85.0	5,500	135	5,500
<b>BMW N19</b>	4	1,798	74.4	85.0	5,500	135	5,500
<b>BMW N23</b>	4	1,798	74.4	85.0	5,500	135	5,500
<b>BMW N23T</b>	4	1,798	74.4	85.0	5,500	135	5,500
<b>BMW N27</b>	4	1,798	74.4	85.0	5,500	135	5,500
<b>BMW N27T</b>	4	1,798	74.4	85.0	5,500	135	5,500
<b>BMW N30</b>	4	1,798	74.4	85.0	5,500	135	5,500
<b>BMW N30T</b>	4	1,798	74.4	85.0	5,500	135	5,500
<b>BMW N35</b>	6	2,965	85.5	91.4	5,500	200	5,500
<b>BMW N35T</b>	6	2,965	85.5	91.4	5,500	200	5,500
<b>BMW N36</b>	6	2,965	85.5	91.4	5,500	200	5,500
<b>BMW N36T</b>	6	2,965	85.5	91.4	5,500	200	5,500
<b>BMW N40</b>	6	2,965	85.5	91.4	5,500	200	5,500
<b>BMW N40T</b>	6	2,965	85.5	91.4	5,500	200	5,500
<b>BMW N42</b>	6	2,965	85.5	91.4	5,500	200	5,500
<b>BMW N42T</b>	6	2,965	85.5	91.4	5,500	200	5,500
<b>BMW N44</b>	6	2,965	85.5	91.4	5,500	200	5,500
<b>BMW N44T</b>	6	2,965	85.5	91.4	5,500	200	5,500
<b>BMW N46</b>	6	2,965	85.5	91.4	5,500	200	5,500
<b>BMW N46T</b>	6	2,965	85.5	91.4	5,500	200	5,500
<b>BMW N50</b>	6	2,965	85.5	91.4	5,500	200	5,500
<b>BMW N50T</b>	6	2,965	85.5	91.4	5,500	200	5,500
<b>BMW N52</b>	6	2,965	85.5	91.4	5,500	200	5,500
<b>BMW N52T</b>	6	2,965	85.5	91.4	5,500	200	5,500
<b>BMW N54</b>	6	2,965	85.5	91.4	5,500	200	5,500
<b>BMW N54T</b>	6	2,965	85.5	91.4	5,500	200	5,500
<b>BMW N55</b>	6	2,965	85.5	91.4	5,500	200	5,500
<b>BMW N55T</b>	6	2,965	85.5	91.4	5,500	200	5,500
<b>BMW N57</b>	4	1,798	74.4	85.0	5,500	135	5,500
<b>BMW N57T</b>	4	1,798	74.4	85.0	5,500	135	5,500
<b>BMW N60</b>	6	2,965	85.5	91.4	5,500	200	5,500
<b>BMW N60T</b>	6	2,965	85.5	91.4	5,500	200	5,500
<b>BMW N62</b>	8	4,400	85.5	104.0	5,500	250	5,500
<b>BMW N62T</b>	8	4,400	85.5	104.0	5,500	250	5,500
<b>BMW N63</b>	8	4,400	85.5	104.0	5,500	250	5,500
<b>BMW N63T</b>	8	4,400	85.5	104.0	5,500	250	5,500

## BMW turbo engines overview

BMW turbo engines overview table showing specifications and power ratings for various models including the BMW N14, BMW N18, BMW N20, BMW N26, BMW N20T, BMW N26T, BMW N47, BMW N47T, BMW N55, BMW N55T, BMW N57, BMW N57T, BMW N63, BMW N63T, BMW N13, BMW N17, BMW N19, BMW N23, BMW N23T, BMW N27, BMW N27T, BMW N30, BMW N30T, BMW N35, BMW N35T, BMW N36, BMW N36T, BMW N40, BMW N40T, BMW N42, BMW N42T, BMW N44, BMW N44T, BMW N46, BMW N46T, BMW N50, BMW N50T, BMW N52, BMW N52T, BMW N54, BMW N54T, BMW N55, BMW N55T, BMW N57, BMW N57T, BMW N60, BMW N60T, BMW N62, BMW N62T, BMW N63, BMW N63T.

For more information on BMW turbo engines, visit the BMW website or contact your local BMW dealer.

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## Curvina marine engines: general data and dimensions

Engine code	Cylinder arrangement	Cylinders	Displacement (cm <sup>3</sup> )	Stroke (mm)	Bore (mm)	Compression ratio	Power (kW) (CV)		Fuel consumption (g/kWh)	
							1500	2000	1500	2000
<b>4000000</b>	180°	4	198	85	65	14:1	30	35	230	230
<b>4000001</b>	180°	4	198	85	65	14:1	30	35	230	230
<b>4100000</b>	180°	4	232	90	70	14:1	35	40	230	230
<b>4100001</b>	180°	4	232	90	70	14:1	35	40	230	230
<b>4200000</b>	180°	4	270	95	75	14:1	40	45	230	230
<b>4200001</b>	180°	4	270	95	75	14:1	40	45	230	230
<b>4300000</b>	180°	4	306	100	80	14:1	45	50	230	230
<b>4300001</b>	180°	4	306	100	80	14:1	45	50	230	230
<b>4400000</b>	180°	4	342	105	85	14:1	50	55	230	230
<b>4400001</b>	180°	4	342	105	85	14:1	50	55	230	230
<b>4500000</b>	180°	4	378	110	90	14:1	55	60	230	230
<b>4500001</b>	180°	4	378	110	90	14:1	55	60	230	230
<b>4600000</b>	180°	4	414	115	95	14:1	60	65	230	230
<b>4600001</b>	180°	4	414	115	95	14:1	60	65	230	230
<b>4700000</b>	180°	4	450	120	100	14:1	65	70	230	230
<b>4700001</b>	180°	4	450	120	100	14:1	65	70	230	230
<b>4800000</b>	180°	4	486	125	105	14:1	70	75	230	230
<b>4800001</b>	180°	4	486	125	105	14:1	70	75	230	230
<b>4900000</b>	180°	4	522	130	110	14:1	75	80	230	230
<b>4900001</b>	180°	4	522	130	110	14:1	75	80	230	230
<b>5000000</b>	180°	4	558	135	115	14:1	80	85	230	230
<b>5000001</b>	180°	4	558	135	115	14:1	80	85	230	230
<b>5100000</b>	180°	4	594	140	120	14:1	85	90	230	230
<b>5100001</b>	180°	4	594	140	120	14:1	85	90	230	230
<b>5200000</b>	180°	4	630	145	125	14:1	90	95	230	230
<b>5200001</b>	180°	4	630	145	125	14:1	90	95	230	230
<b>5300000</b>	180°	4	666	150	130	14:1	95	100	230	230
<b>5300001</b>	180°	4	666	150	130	14:1	95	100	230	230
<b>5400000</b>	180°	4	702	155	135	14:1	100	105	230	230
<b>5400001</b>	180°	4	702	155	135	14:1	100	105	230	230
<b>5500000</b>	180°	4	738	160	140	14:1	105	110	230	230
<b>5500001</b>	180°	4	738	160	140	14:1	105	110	230	230
<b>5600000</b>	180°	4	774	165	145	14:1	110	115	230	230
<b>5600001</b>	180°	4	774	165	145	14:1	110	115	230	230
<b>5700000</b>	180°	4	810	170	150	14:1	115	120	230	230
<b>5700001</b>	180°	4	810	170	150	14:1	115	120	230	230
<b>5800000</b>	180°	4	846	175	155	14:1	120	125	230	230
<b>5800001</b>	180°	4	846	175	155	14:1	120	125	230	230
<b>5900000</b>	180°	4	882	180	160	14:1	125	130	230	230
<b>5900001</b>	180°	4	882	180	160	14:1	125	130	230	230
<b>6000000</b>	180°	4	918	185	165	14:1	130	135	230	230
<b>6000001</b>	180°	4	918	185	165	14:1	130	135	230	230

### Dimensions

Engine	Length	Width	Height	Weight	Weight	Weight	Weight	Weight	Weight	Weight	Weight
4000000	440	270	230	120	120	120	120	120	120	120	120
4000001	440	270	230	120	120	120	120	120	120	120	120
4100000	440	270	230	120	120	120	120	120	120	120	120
4100001	440	270	230	120	120	120	120	120	120	120	120
4200000	440	270	230	120	120	120	120	120	120	120	120
4200001	440	270	230	120	120	120	120	120	120	120	120
4300000	440	270	230	120	120	120	120	120	120	120	120
4300001	440	270	230	120	120	120	120	120	120	120	120
4400000	440	270	230	120	120	120	120	120	120	120	120
4400001	440	270	230	120	120	120	120	120	120	120	120
4500000	440	270	230	120	120	120	120	120	120	120	120
4500001	440	270	230	120	120	120	120	120	120	120	120
4600000	440	270	230	120	120	120	120	120	120	120	120
4600001	440	270	230	120	120	120	120	120	120	120	120
4700000	440	270	230	120	120	120	120	120	120	120	120
4700001	440	270	230	120	120	120	120	120	120	120	120
4800000	440	270	230	120	120	120	120	120	120	120	120
4800001	440	270	230	120	120	120	120	120	120	120	120
4900000	440	270	230	120	120	120	120	120	120	120	120
4900001	440	270	230	120	120	120	120	120	120	120	120
5000000	440	270	230	120	120	120	120	120	120	120	120
5000001	440	270	230	120	120	120	120	120	120	120	120
5100000	440	270	230	120	120	120	120	120	120	120	120
5100001	440	270	230	120	120	120	120	120	120	120	120
5200000	440	270	230	120	120	120	120	120	120	120	120
5200001	440	270	230	120	120	120	120	120	120	120	120
5300000	440	270	230	120	120	120	120	120	120	120	120
5300001	440	270	230	120	120	120	120	120	120	120	120
5400000	440	270	230	120	120	120	120	120	120	120	120
5400001	440	270	230	120	120	120	120	120	120	120	120
5500000	440	270	230	120	120	120	120	120	120	120	120
5500001	440	270	230	120	120	120	120	120	120	120	120
5600000	440	270	230	120	120	120	120	120	120	120	120
5600001	440	270	230	120	120	120	120	120	120	120	120
5700000	440	270	230	120	120	120	120	120	120	120	120
5700001	440	270	230	120	120	120	120	120	120	120	120
5800000	440	270	230	120	120	120	120	120	120	120	120
5800001	440	270	230	120	120	120	120	120	120	120	120
5900000	440	270	230	120	120	120	120	120	120	120	120
5900001	440	270	230	120	120	120	120	120	120	120	120
6000000	440	270	230	120	120	120	120	120	120	120	120
6000001	440	270	230	120	120	120	120	120	120	120	120

## Machine auxiliaries performance and power ratings

Rating for Cummins generator set being used for marine applications

Type	Wet engine				Total generator set			
	Wet		Dry		Wet		Dry	
	Wet kW (100% load)	Dry kW (100% load)	Wet kW (100% load)	Dry kW (100% load)	Wet kW (100% load)	Dry kW (100% load)	Wet kW (100% load)	Dry kW (100% load)
150000	15000	13500	15000	13500	15000	13500	15000	13500
180000	18000	16500	18000	16500	18000	16500	18000	16500
210000	21000	19500	21000	19500	21000	19500	21000	19500
240000	24000	22500	24000	22500	24000	22500	24000	22500
270000	27000	25500	27000	25500	27000	25500	27000	25500
300000	30000	28500	30000	28500	30000	28500	30000	28500
330000	33000	31500	33000	31500	33000	31500	33000	31500
360000	36000	34500	36000	34500	36000	34500	36000	34500
390000	39000	37500	39000	37500	39000	37500	39000	37500
420000	42000	40500	42000	40500	42000	40500	42000	40500
450000	45000	43500	45000	43500	45000	43500	45000	43500
480000	48000	46500	48000	46500	48000	46500	48000	46500
510000	51000	49500	51000	49500	51000	49500	51000	49500
540000	54000	52500	54000	52500	54000	52500	54000	52500
570000	57000	55500	57000	55500	57000	55500	57000	55500
600000	60000	58500	60000	58500	60000	58500	60000	58500



**Wet engine**  
Wet engine is a diesel engine with a water-cooled jacket. The engine is designed for marine applications and is rated for 100% load. The engine is available in a range of sizes from 150000 to 600000 kW.

**Dry engine**  
Dry engine is a diesel engine with a dry cooling system. The engine is designed for marine applications and is rated for 100% load. The engine is available in a range of sizes from 150000 to 600000 kW.

**Wet generator set**  
Wet generator set is a generator set with a water-cooled jacket. The generator set is designed for marine applications and is rated for 100% load. The generator set is available in a range of sizes from 150000 to 600000 kW.

**Dry generator set**  
Dry generator set is a generator set with a dry cooling system. The generator set is designed for marine applications and is rated for 100% load. The generator set is available in a range of sizes from 150000 to 600000 kW.





## Design features

where available. Features manufactured from a lightweight aluminium or stainless steel construction mean engine components should have a longer life than the average outboard. A 200hp outboard is available with a 2000-hour warranty, depending on the engine manufacturer.

### High strength

**Low weight** and **high torque** are the hallmarks of the new outboard. The aluminium alloy construction, together with the use of stainless steel for the propeller, means that outboard torque is increased by up to 10% over the previous generation. The aluminium alloy is strengthened by heat treatment, and the aluminium alloy propeller is strengthened by heat treatment, and the aluminium alloy propeller is strengthened by heat treatment.

### Strong propeller

The new outboard propeller is made from stainless steel, and is strengthened by heat treatment. The propeller is made from stainless steel, and is strengthened by heat treatment. The propeller is made from stainless steel, and is strengthened by heat treatment.



Manufactured from a high strength aluminium alloy, the new outboard is strengthened by heat treatment, and the aluminium alloy propeller is strengthened by heat treatment.

Stainless steel propellers are strengthened by heat treatment, and the aluminium alloy propeller is strengthened by heat treatment.

### High life bearings and

strong aluminium. The new outboard is made from stainless steel, and is strengthened by heat treatment. The propeller is made from stainless steel, and is strengthened by heat treatment.

Manufactured from a high strength aluminium alloy, the new outboard is strengthened by heat treatment, and the aluminium alloy propeller is strengthened by heat treatment.

### Performance

The new outboard is made from stainless steel, and is strengthened by heat treatment. The propeller is made from stainless steel, and is strengthened by heat treatment.



## Customer International service and parts availability

To receive Customer service and technical assistance, please call 1-800-4-A-TRUCK. For more information, visit us at [www.4atruck.com](http://www.4atruck.com). We're here to help you get the most out of your truck. For more information, visit us at [www.4atruck.com](http://www.4atruck.com).

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