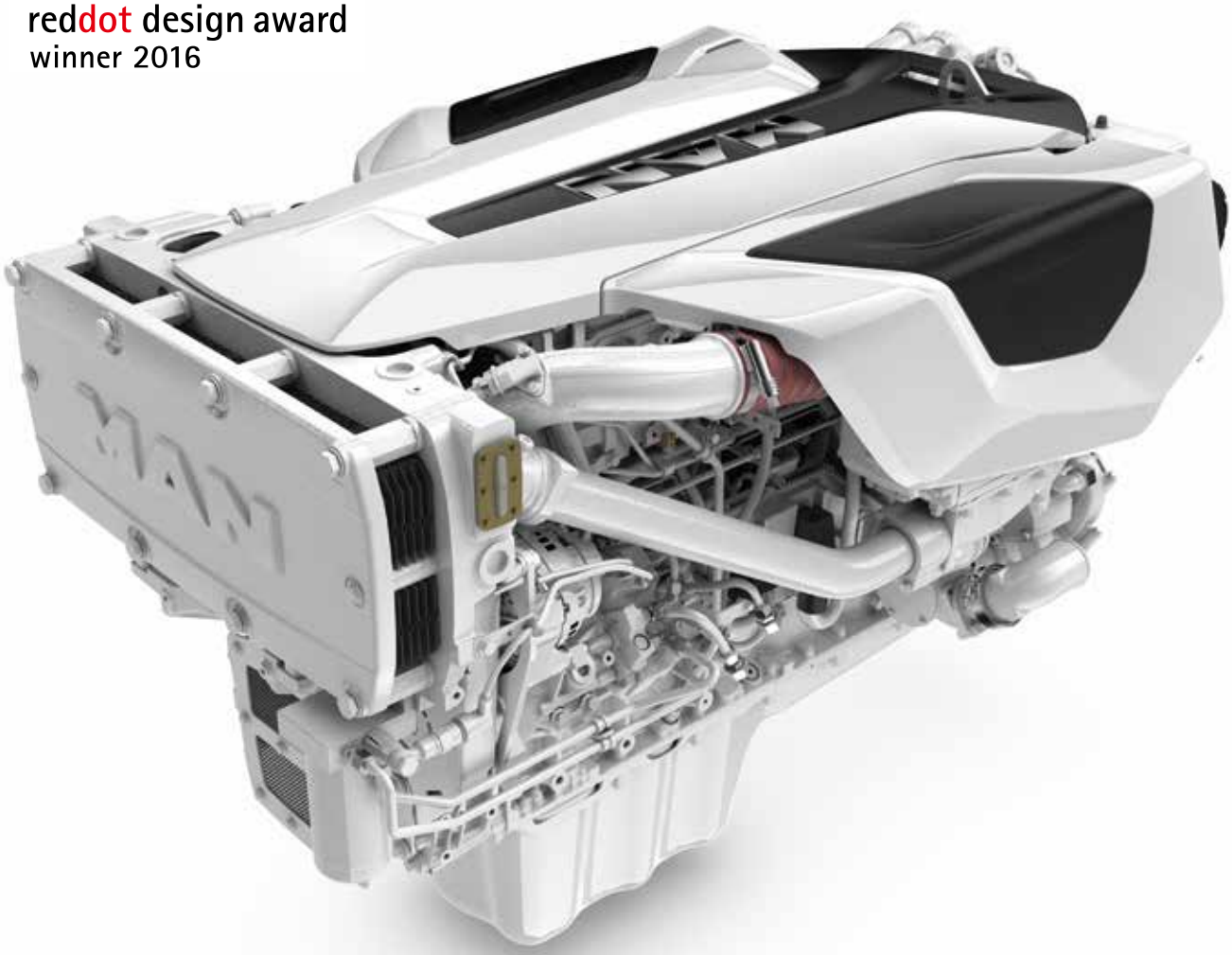
reddot design award
winner 2016



i6-730 and i6-800

Engine description

Characteristics

Cylinders and arrangement:	6 cylinders in-line
Operation mode:	4-stroke diesel engine, watercooled
Turbocharging:	Turbocharger with charge air intercooler and waste gate
Number of valves:	4 valves per cylinder
Fuel system:	Common Rail direct fuel injection with electronic control
Engine lubrication:	Closed system with forced feeding, oil cooling and filtering
Type of cooling:	Heat exchanger with engine and seawater circuit
Engine control:	Electronic injection control (EDC) Electronic engine monitoring including diagnostic unit
Fuel:	DIN EN 590

i6-730 and i6-800

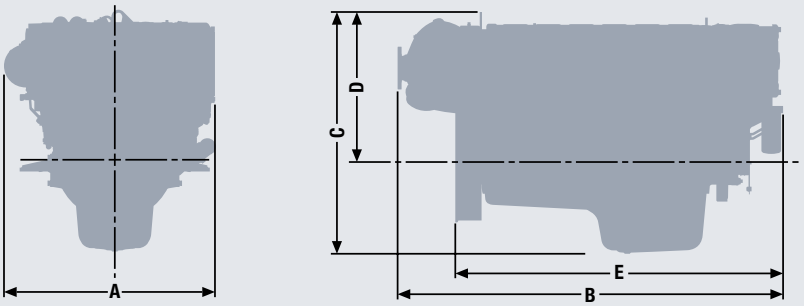
Technical data

Technical features i6-730 and i6-800

Type designation		i6-730	i6-800
Displacement	l	12.42	12.42
Maximum output to DIN ISO 3046-1	kW (hp)	537 (730)	588 (800)
Rated speed	rpm	2,300	2,300
Maximum torque	Nm	2,450	2,674
at speed	rpm	1,300–2,100	1,400–2,000
Absolute fuel consumption at rated power [1]	l/h	142	158
Classifiable		✓	–
Exhaust gas status		IMO Tier II, EPA Tier 3 RCD 2013/53/EC, RCD 94/25/EC, 97/68/EC	IMO Tier II, EPA Tier 3 [2], RCD 2013/53/EC, RCD 94/25/EC, 97/68/EC

1) Tolerance +5% according to DIN ISO 3046-1

2) for private use only



Dimensions i6-730 and i6-800

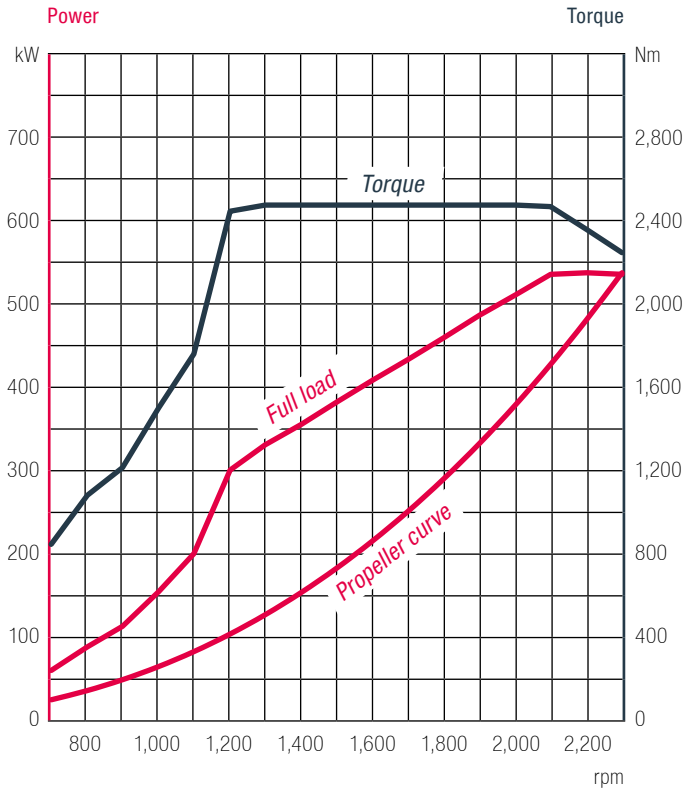
Type designation		i6-730/i6-800
A-Overall width	mm	986
B-Overall length	mm	1,795
C-Overall height – standard oil pan	mm	1,096
D-Top of engine to crankshaft centre	mm	674
E-Length of engine from front end to edge of flywheel housing	mm	1,527
Average weight of engine ready for installation (dry)	kg	1,215

For detailed examinations of installation dimensions, please order drawings from our factory.

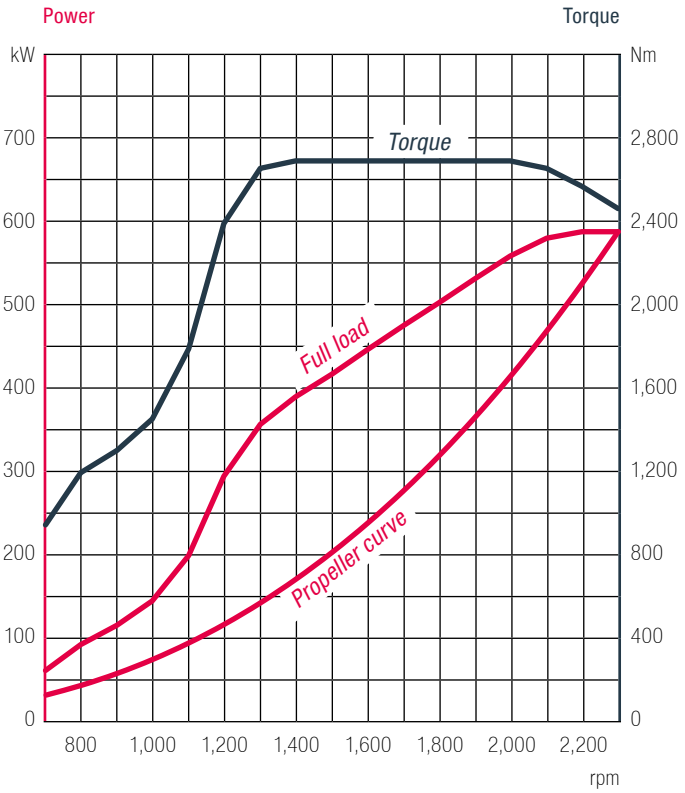
i6-730 and i6-800

Power charts

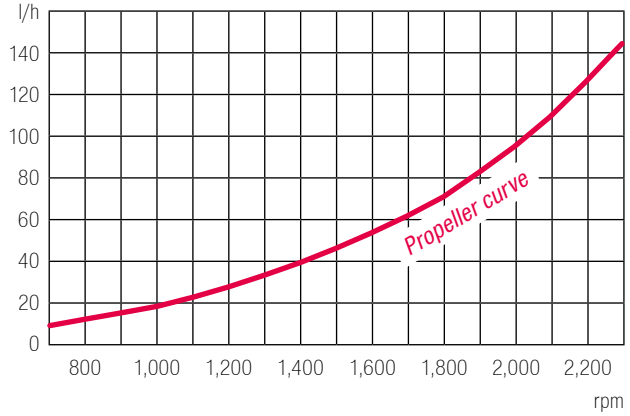
i6-730



i6-800



Absolute fuel consumption



Absolute fuel consumption