# T4.205

# **SPECIFICATIONS**



Power at crankshaft 147.2 kW [200 hp]

Displacement 2.982 | [182 in<sup>3</sup>]

Configuration 4 cylinders in line

Operation type 4 strokes Diesel

Bore & Stroke 96 x 103 mm [3.78 x 4.06 in]

Compression ratio 15:1

Rated speed 3600 rpm

Idling speed 700 rpm

Peak torque 501 Nm

Peak torque speed 2000 rpm

Engine base Toyota

Direct injection
Fuel system High pressure Common Rail
Electronically controlled

Air intake Turbocharged with intercooler

Cooling Closed cooling with heat exchanger

Max mounting angle 7° Front down 7° Front up

Alternator 12 Volt

Rating M6

Emission compliance

IMO Annex VI Compliant
RCD 2013/53/EU
EPA marine Tier 3

Dry weight

with TTM50A 393 kg [866 lbs]



#### **ENGINE BLOCK**

- 4 cylinders in line
- 4 valves per cylinder
- Dual overhead camshaft (DOHC)
- Watercooled exhaust manifold
- Internal balancers

#### **FUEL SYSTEM**

- Common Rail injection system
- Fuel filter with hand primer
- Integrated fuel cooler

# LUBRICATION SYSTEM

- Replacable full-flow oil filter
- Oil dipstick
- Transmission oil cooler

# COOLING SYSTEM

- Closed cooling with heat exchanger
- Gear driven self-priming raw water pump
- Coolant circulating pump
- Water cooled exhaust elbow

#### **ELECTRICAL SYSTEM & INSTRUMENTATION**

- 12 V / 100 A alternator
- 12 V Electrical system
- Complete instrumentation including key switch and alarms
- Extension cable harness with plug-in connection

#### **AIR INTAKE**

- Dry turbocharger
- Intercooler

# OTHER FEATURES

• Flexible engine mountings

#### **OPTIONAL EQUIPMENTS & ACCESSORIES**

- Complete marine propulsion systems
- Marine transmission adaptation kits
- Throttle ansd shift controls
- Additionnal instrumentation, Flying bridge extension harness
- Water boiler systems
- Complete fuel systems
- Complete exhaust systems
- Trolling valve

### RATINGS

- Up to 500 annual operating hours
- Load factor up to 35%
- Full power for no more than 30 minutes out of each 8 hours of operation. The remaining time must be at, or below cruising speed

#### RATINGS

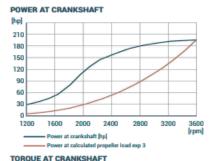
#### **SHAFT LINE**

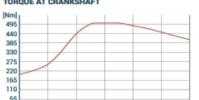
- TTM40A
- TTM50A
- ZF45A
- ZF63A

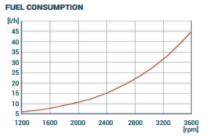
#### STERN DRIVE

- Bravo X One
- Bravo X Three
- Bravo X Two
- Contact your local Nanni dealer for more details and availability for transmission model and type.

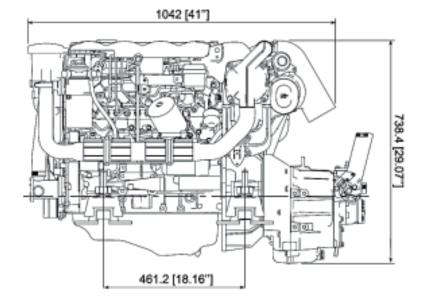
#### PERFORMANCE CURVES

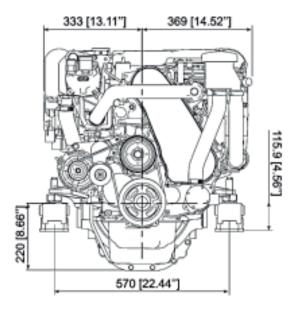






# **DIMENSIONS WITH TTM50A**







# T4.230

# **SPECIFICATIONS**



Power at crankshaft 169.1 kW [230 hp]

Displacement 2.982 | [182 in<sup>3</sup>]

Configuration 4 cylinders in line

Operation type 4 strokes Diesel

Bore & Stroke 96 x 103 mm [3.78 x 4.06 in]

Compression ratio 15:1

Rated speed 3600 rpm

Idling speed 700 rpm

Peak torque 569.4 Nm

Peak torque speed 2000 rpm

Engine base Toyota

Direct injection

Fuel system High pressure Common Rail

Electronically controlled

Air intake Turbocharged with intercooler

Cooling Closed cooling with heat exchanger

Max mounting angle 7° Front down 7° Front up

Alternator 12 Volt 130 Amp

Rating M6

Emission compliance

IMO Annex VI Compliant
RCD 2013/53/EU
EPA marine Tier 3

Dry weight

with TTM50A 393 kg [866 lbs]



#### **ENGINE BLOCK**

- 4 cylinders in line
- 4 valves per cylinder
- Dual overhead camshaft (DOHC)
- Watercooled exhaust manifold
- Internal balancers

#### **FUEL SYSTEM**

- Common Rail injection system
- Fuel filter with hand primer
- Integrated fuel cooler

# LUBRICATION SYSTEM

- Replacable full-flow oil filter
- Oil dipstick
- Transmission oil cooler

# COOLING SYSTEM

- Closed cooling with heat exchanger
- Gear driven self-priming raw water pump
- Coolant circulating pump
- Water cooled exhaust elbow

#### **ELECTRICAL SYSTEM & INSTRUMENTATION**

- 12 V / 100 A alternator
- 12 V Electrical system
- Complete instrumentation including key switch and alarms
- Extension cable harness with plug-in connection

#### **AIR INTAKE**

- Dry turbocharger
- Intercooler

# OTHER FEATURES

• Flexible engine mountings

#### **OPTIONAL EQUIPMENTS & ACCESSORIES**

- Complete marine propulsion systems
- Marine transmission adaptation kits
- Throttle ansd shift controls
- Additionnal instrumentation, Flying bridge extension harness
- Water boiler systems
- Complete fuel systems
- Complete exhaust systems
- Trolling valve

#### RATINGS

- Up to 500 annual operating hours
- Load factor up to 35%
- Full power for no more than 30 minutes out of each 8 hours of operation. The remaining time must be at, or below cruising speed

#### RATINGS

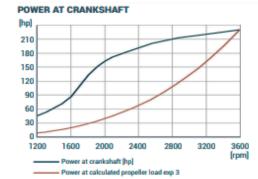
#### SHAFT LINE

- TTM40A
- TTM50A
- ZF63A

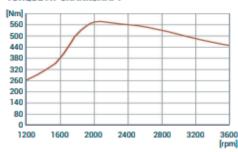
#### STERN DRIVE

- Bravo X One
- Bravo X Three
- Bravo X Two
- Contact your local Nanni dealer for more details and availability for transmission model and type.

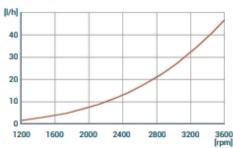
#### PERFORMANCE CURVES



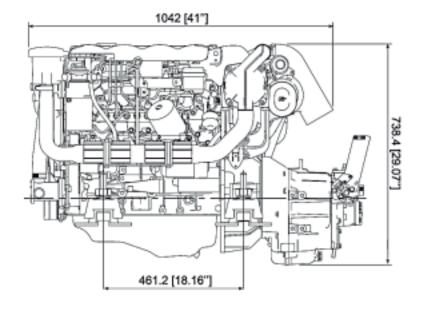
#### TORQUE AT CRANKSHAFT

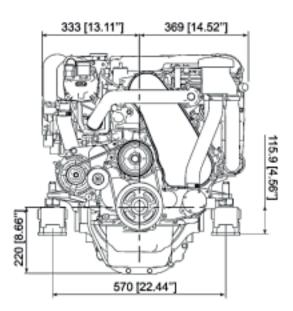


#### **FUEL CONSUMPTION**



# **DIMENSIONS WITH TTM50A**







# T4.270

# **SPECIFICATIONS**



Power at crankshaft 194.9 kW [265 hp]

Displacement 2.982 | [182 in<sup>3</sup>]

Configuration 4 cylinders in line

Operation type 4 strokes Diesel

Bore & Stroke 96 x 103 mm [3.78 x 4.06 in]

Compression ratio 15:1

Rated speed 3600 rpm

Idling speed 700 rpm

Peak torque 660 Nm

Peak torque speed 2000 rpm

Engine base Toyota

Direct injection
Fuel system High pressure Common Rail
Electronically controlled

Air intake Turbocharged with intercooler

Cooling Closed cooling with heat exchanger

Max mounting angle 7° Front down 7° Front up

Alternator 12 Volt

Rating M6

Emission compliance

IMO Annex VI Compliant
RCD 2013/53/EU
EPA marine Tier 3

Dry weight

with TTM50A 393 kg [866 lbs]



#### **ENGINE BLOCK**

- 4 cylinders in line
- 4 valves per cylinder
- Dual overhead camshaft (DOHC)
- Watercooled exhaust manifold
- Internal balancers

#### **FUEL SYSTEM**

- Common Rail injection system
- Fuel filter with hand primer
- Integrated fuel cooler

# LUBRICATION SYSTEM

- Replacable full-flow oil filter
- Oil dipstick
- Transmission oil cooler

# COOLING SYSTEM

- Closed cooling with heat exchanger
- Gear driven self-priming raw water pump
- Coolant circulating pump
- Water cooled exhaust elbow

#### **ELECTRICAL SYSTEM & INSTRUMENTATION**

- 12 V / 100 A alternator
- 12 V Electrical system
- Complete instrumentation including key switch and alarms
- Extension cable harness with plug-in connection

#### **AIR INTAKE**

- Dry turbocharger
- Intercooler

# OTHER FEATURES

• Flexible engine mountings

#### **OPTIONAL EQUIPMENTS & ACCESSORIES**

- Complete marine propulsion systems
- Marine transmission adaptation kits
- Throttle ansd shift controls
- Additionnal instrumentation, Flying bridge extension harness
- Water boiler systems
- Complete fuel systems
- Complete exhaust systems
- Trolling valve

#### RATINGS

- Up to 500 annual operating hours
- Load factor up to 35%
- Full power for no more than 30 minutes out of each 8 hours of operation. The remaining time must be at, or below cruising speed

#### **RATINGS**

#### **SHAFT LINE**

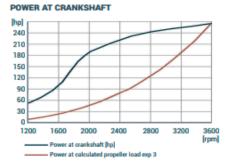
- TTM40A
- TTM50A
- ZF63A

#### STERN DRIVE

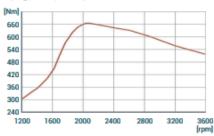
- Bravo X One
- Bravo X Three
- Bravo X Two
- Contact your local Nanni dealer for more details and availability for transmission model and type.

#### \_\_\_\_

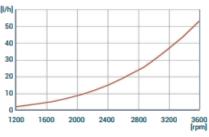
PERFORMANCE CURVES



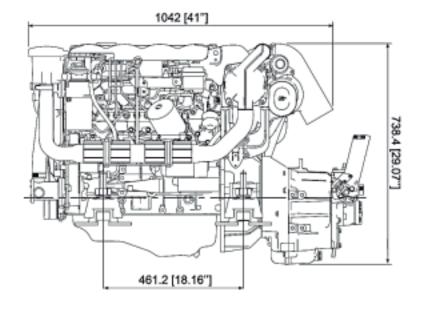
#### TORQUE AT CRANKSHAFT

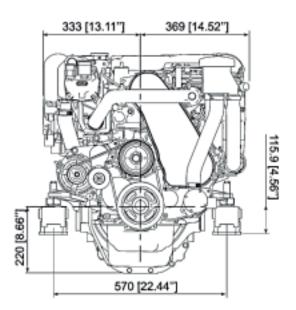


#### **FUEL CONSUMPTION**



# **DIMENSIONS WITH TTM50A**







# **Z4.205**

# **SPECIFICATIONS**



Power at crankshaft 147.2 kW [200 hp]

Displacement 2.982 | [182 in<sup>3</sup>]

Configuration 4 cylinders in line

Operation type 4 strokes Diesel

96 x 103 mm [3.78 x 4.06 in] Bore & Stroke

15:1 Compression ratio

Rated speed 3600 rpm

Idling speed 700 rpm

Peak torque 501 Nm

Peak torque speed 2000 rpm Engine base Toyota

Direct injection High pressure Common Rail Fuel system Electronically controlled

Air intake Turbocharged with intercooler

Closed cooling with heat exchanger Cooling

0° Front down Max mounting angle 0° Front up

12 Volt Alternator 130 Amp

Rating M6

IMO Annex VI Compliant RCD 2013/53/EU EPA marine Tier 3

Emission compliance

Dry weight

with TTM50A 476 kg [1049.4 lbs]



#### **ENGINE BLOCK**

- 4 cylinders in line
- 4 valves per cylinder
- Dual overhead camshaft (DOHC)
- Watercooled exhaust manifold
- Internal balancers

#### **FUEL SYSTEM**

- Common Rail injection system
- Fuel filter with hand primer
- Integrated fuel cooler

# LUBRICATION SYSTEM

- Replacable full-flow oil filter
- Oil dipstick
- Transmission oil cooler

# COOLING SYSTEM

- Closed cooling with heat exchanger
- Gear driven self-priming raw water pump
- Coolant circulating pump
- Water cooled exhaust elbow

#### **ELECTRICAL SYSTEM & INSTRUMENTATION**

- 12 V / 100 A alternator
- 12 V Electrical system
- Complete instrumentation including key switch and alarms
- Extension cable harness with plug-in connection

#### **AIR INTAKE**

- Dry turbocharger
- Intercooler

# OTHER FEATURES

- Flexible engine mountings
- •Transom (Trim system, Bull-horn & Mercathode)
- Trim indicator

#### **OPTIONAL EQUIPMENTS & ACCESSORIES**

- Throttle and shift controls
- Additional instrumentation & Fly bridge extension harness
- Water boiler systems
- Complete fuel systems
- Complete exhaust systems

#### **RATINGS**

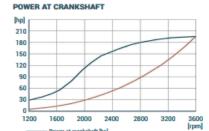
- Up to 500 annual operating hours
- Load factor up to 35%
- Full power for no more than 30 minutes out of each 8 hours of operation. The remaining time must be at, or below cruising speed

# **RATINGS**

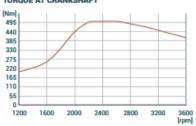
#### STERN DRIVE

- Bravo X One
- Bravo X Three
- Bravo X Two
- Contact your local Nanni dealer for more details and availability for transmission model and type.

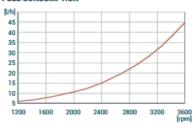
# PERFORMANCE CURVES



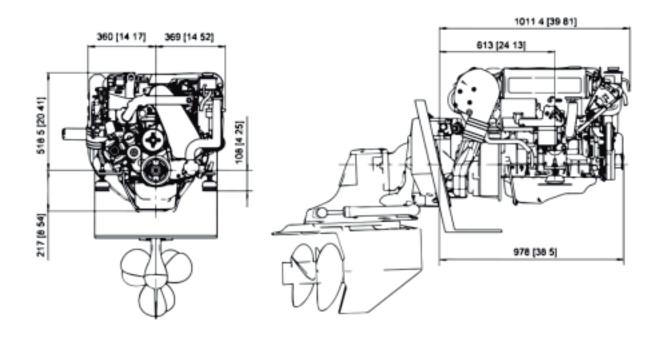
#### TORQUE AT CRANKSHAFT



#### **FUEL CONSUMPTION**



# DIMENSIONS WITH BRAVO X THREE





# **Z4.230**

Peak torque speed

# **SPECIFICATIONS**



Power at cranksha	ft 169.1 kW [230 hp]	Engine base	Toyota
Displacement	2.982   [182 in³]	Fuel system	Direct injection High pressure Common Rail Electronically controlled
Configuration	4 cylinders in line	Air intake	Turbocharged with intercooler
Operation type	4 strokes Diesel	Cooling	Closed cooling with heat exchanger
Bore & Stroke	96 x 103 mm [3.78 x 4.06 in]	Max mountii	ng angle 0° Front down 0° Front up
Compression ratio	15:1	Alternator	12 Volt 130 Amp
Rated speed	3600 rpm	Rating	M6
Idling speed	700 rpm	Emission cor	mpliance IMO Annex VI Compliant RCD 2013/53/EU EPA marine Tier 3 BSO2
Peak torque	569.4 Nm	Dry weight with TTM50A	476 kg [1049.4 lbs]

2000 rpm



# 169.1 KW [230 HP] AT 3600 RPM

#### TECHNICAL DESCRIPTION

#### **ENGINE BLOCK**

- 4 cylinders in line
- 4 valves per cylinder
- Dual overhead camshaft (DOHC)
- Watercooled exhaust manifold
- Internal balancers

#### **FUEL SYSTEM**

- Common Rail injection system
- Fuel filter with hand primer
- Integrated fuel cooler

# LUBRICATION SYSTEM

- Replacable full-flow oil filter
- Oil dipstick
- Transmission oil cooler

# COOLING SYSTEM

- Closed cooling with heat exchanger
- Gear driven self-priming raw water pump
- Coolant circulating pump
- Water cooled exhaust elbow

#### **ELECTRICAL SYSTEM & INSTRUMENTATION**

- 12 V / 100 A alternator
- 12 V Electrical system
- Complete instrumentation including key switch and alarms
- Extension cable harness with plug-in connection

#### **AIR INTAKE**

- Dry turbocharger
- Intercooler

# OTHER FEATURES

- Flexible engine mountings
- •Transom (Trim system, Bull-horn & Mercathode)
- Trim indicator

#### **OPTIONAL EQUIPMENTS & ACCESSORIES**

- Throttle and shift controls
- Additional instrumentation & Fly bridge extension harness
- Water boiler systems
- Complete fuel systems
- Complete exhaust systems

#### **RATINGS**

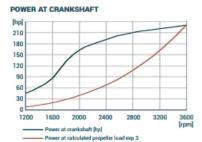
- Up to 500 annual operating hours
- Load factor up to 35%
- Full power for no more than 30 minutes out of each 8 hours of operation. The remaining time must be at, or below cruising speed

# **RATINGS**

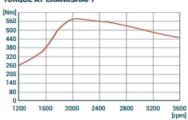
#### STERN DRIVE

- Bravo X One
- Bravo X Three
- Bravo X Two
- Contact your local Nanni dealer for more details and availability for transmission model and type.

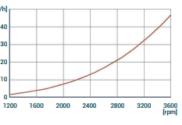
# PERFORMANCE CURVES



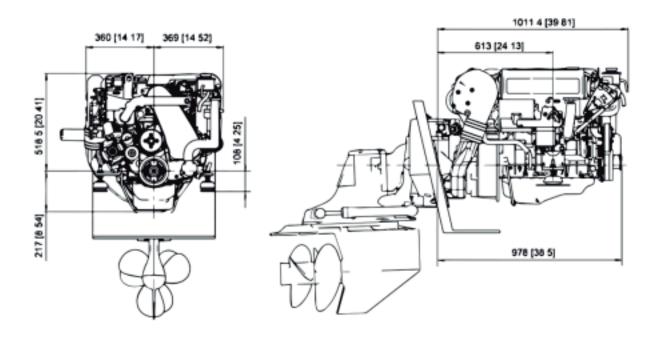




#### FUEL CONSUMPTION



# **DIMENSIONS WITH BRAVO X THREE**





# **Z4.270**

Power at crankshaft

Peak torque speed

# **SPECIFICATIONS**



Engine base

with TTM50A

Direct injection High pressure Common Rail Displacement 2.982 | [182 in<sup>3</sup>] Fuel system Electronically controlled Air intake Configuration 4 cylinders in line Turbocharged with intercooler Closed cooling with heat exchanger Operation type 4 strokes Diesel Cooling 0° Front down 96 x 103 mm [3.78 x 4.06 in] Bore & Stroke Max mounting angle 0° Front up 12 Volt 15:1 Compression ratio Alternator 130 Amp Rated speed 3600 rpm Rating M6 IMO Annex VI Compliant RCD 2013/53/EU EPA marine Tier 3 Idling speed 700 rpm Emission compliance Peak torque 660 Nm Dry weight

194.9 kW [265 hp]

2000 rpm



476 kg [1049.4 lbs]

Toyota

# 194.9 KW [265 HP] AT 3600 RPM

#### TECHNICAL DESCRIPTION

#### **ENGINE BLOCK**

- 4 cylinders in line
- 4 valves per cylinder
- Dual overhead camshaft (DOHC)
- Watercooled exhaust manifold
- Internal balancers

#### **FUEL SYSTEM**

- Common Rail injection system
- Fuel filter with hand primer
- Integrated fuel cooler

#### LUBRICATION SYSTEM

- Replacable full-flow oil filter
- Oil dipstick
- Transmission oil cooler

# COOLING SYSTEM

- Closed cooling with heat exchanger
- Gear driven self-priming raw water pump
- Coolant circulating pump
- Water cooled exhaust elbow

#### **ELECTRICAL SYSTEM & INSTRUMENTATION**

- 12 V / 100 A alternator
- 12 V Electrical system
- Complete instrumentation including key switch and alarms
- Extension cable harness with plug-in connection

#### **AIR INTAKE**

- Dry turbocharger
- Intercooler

# OTHER FEATURES

- Flexible engine mountings
- Transom (Trim system, Bull-horn & Mercathode)
- Trim indicator

#### **OPTIONAL EQUIPMENTS & ACCESSORIES**

- Throttle and shift controls
- Additional instrumentation & Fly bridge extension harness
- Water boiler systems
- Complete fuel systems
- Complete exhaust systems

#### **RATINGS**

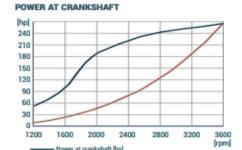
- Up to 500 annual operating hours
- •Load factor up to 35%
- Full power for no more than 30 minutes out of each 8 hours of operation. The remaining time must be at, or below cruising speed

# **RATINGS**

#### STERN DRIVE

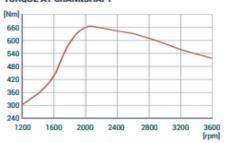
- Bravo X One
- Bravo X Three
- Bravo X Two
- Contact your local Nanni dealer for more details and availability for transmission model and type.

# PERFORMANCE CURVES

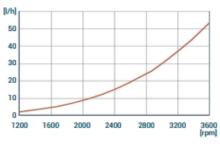


Power at calculated propeller load exp 3





#### **FUEL CONSUMPTION**



# DIMENSIONS WITH BRAVO X THREE

