

MX Series

MULTI-PURPOSE ENGINES









MX TECHNOLOGY

MZ heavyduty toughness features have been inherited and plus convenient & powerful MX technology into



HEAVY DUTY COMPONENTS

- Forged & microwave harden crankshaft
 - Dual ball bearing supported crankshaft
 - Forged & microwave harden camshaft
 - Stellite® coated exhaust valve face
 - Tufftride® treated exhaust valve
 - Spiny cast iron cylinder liner
 - Dual large oil gauge on both right / left sides
 - Dual large drain on both right / left sides
 - Upper mount dual filtration air cleaner

OPTIONAL SELECTION

- P. T. O. shaft
- Air cleaner
- Muffler
- Alternator coil
- Rectifier-regulator
- Low speed governor
- Emission regulation application

MAJOR FEATURES

HEMI-head



Optimum combustion chamber shape & valve layout in the model.

MX175 / MX200	MX250 / MX300	MX360 / MX400
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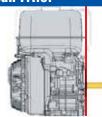
High-tech exhaust valve



Stellite® coated and Tufftride® finished high heat resistant exhaust valve.

	MX175 / MX200	MX250 / MX300	MX360 / MX400
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Clean P.T.O.



No projection upper and lower side of the shaft. Wide range applications fitting easier.

MX175 / MX200	MX250 / MX300	MX360 / MX400
•	•	•

Upper mount air-cleaner



Newly designed dual filtration system mounted upper level to taking cleaner air.

MX175 / MX200	MX250 / MX300	MX360 / MX400
•	•	•

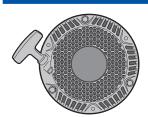
Dual & large drain oil



Both sides accessible large bolt ease of service, large drain hole allows quicker draining.

- φ10mm	MX175 / MX200	MX250 / MX300	MX360 / MX400
φ12mm	φ10mm	φ12mm	φ12mm

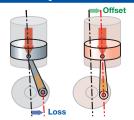
Advanced recoil starter



Rust/corrosion free durable polymer starter case. Adjustable starter knob position by 45 / 60 degrees step.

MX175 / MX200	MX250 / MX300	MX360 / MX400
45 degrees	60 degrees	60 degrees

Offset cylinder



To be pushed the crank down directly, the cylinder arranged off from the crankshaft center.

MX175 / MX200	MX250 / MX300	MX360 / MX400
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Toughness crankshaft



Drop forged and microwave harden crankshaft & camshaft ensure long life.

MX175 / MX200	MX250 / MX300	MX360 / MX400
•	•	•

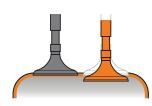
Concentrated control



Fuel cock, Choke lever, throttle lever, Engine ON / OFF switch and starter grip are concentrated for easier operation.

MX175 / MX200	MX250 / MX300	MX360 / MX400
•	•	•

Auto decompression



Unique automatic decompression system incorporated for light & soft starting.

MX175 / MX200	MX250 / MX300	MX360 / MX400
•	•	•

Dual oil gauge



Both sides accessible oil gauge allows oil level inspection easily.

MX175 / MX200	MX250 / MX300	MX360 / MX400
•	•	•

Large fuel tank



Large capacity, compact & lighter fuel tank allows longer hours of operation.

		_
MX175 / MX200	MX250 / MX300	MX360 / MX400
301	551	611

- Please read the owner's manual carefully before operating, and be sure to operate the machine properly.
- Regularly inspect the engine and perform maintenance when necessary. Keep the machine in good operating condition at all times.
- Turn the engine off and keep away from open flames whenever refueling the machine. Also, immediately wipe up any spilled fuel.
- Operate the engine only in a well-ventilated area.
- Do not touch the engine and muffler during operation or shortly after stopping.
- Specifications are subject to change without notice.





- Offers an Optimized Layout for High Reliability, Durability, Usability and Mountability
- Complies with LEMA Phase 3 Voluntary emission regulations, US EPA Phase3, CARB Tier3 regulations, and EC Stage2 regulations



US EPA Phase III

CARB TierIII

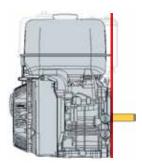
EC StageII

LEMA PhaseIII



Clean P.T.O. face

The clean P.T.O. mounting face without exhaust components improves mountability to machinery.



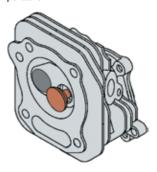
Large fuel tank

The large capacity, compact and lighter fuel tank (3,9 liters) offers increased autonomy.



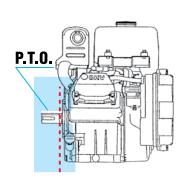
High-tech exhaust valve

Stellite® coated and tufftride® finished exhaust valve resists very high temperature.



Clean P.T.O. face

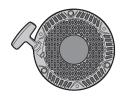
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Advanced recoil starter

Rust/corrosion free durable polymer starter case. Adjustable starter knob position by 45 / 60 degrees step.



Concentrated control

Fuel cock, Choke lever, throttle lever, Engine ON / OFF switch and starter grip are concentrated for easier operation.



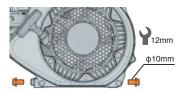
Dual oil gauge

Both side accessible oil gauge allows oil level inspection easily

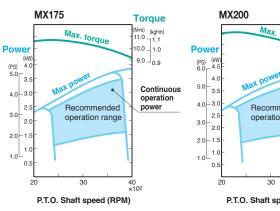


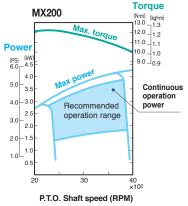
Dual & large drain oil

Both sides accessible large bolt ease of service, large drain hole allows quicker draining.



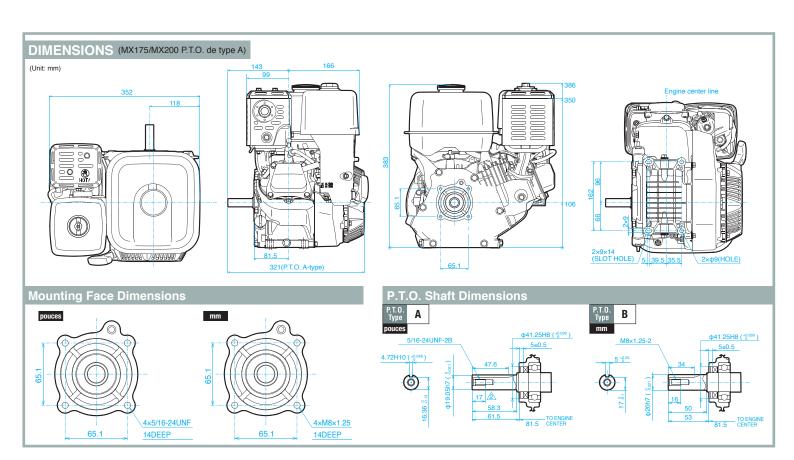
PERFORMANCE CURVE





SPECIFICATIONS

Model Name	MX175	MX200
Bore × Strock	66 × 50 mm	70 × 50 mm
Displacement	171 cm ³	192 cm ³
Compression ratio	8,5	
Max output	3,6 kW (4,9 PS) à 3600 RPM	4,2 kW (5,7 ps) à 3600 RPM
Rated output	3,0 kW (4,1 PS) à 3600 RPM	3,5 kW (4,7 ps) à 3600 RPM
Max torque	10,5 N·m (1,1 kgf·m) à 2400 RPM	12,3 N·m (1,25kgf·m) à 2400 RPM
Fuel	Gasoline	
Fuel tank capacity	3,9 L	
Ignition system	Allumage contrôlé par transistor (TCI)	
Spark plug	NGK BPR4ES	
Lubrication system	Mechanical splash	
Oil pan capacity	0,6 L	
Dry weight	18,0 kg	
Dimensions (L×L×H)	321 × 352 × 386 mm	



MX SEPIES

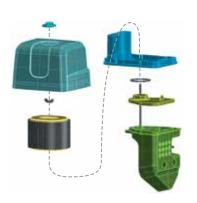




- Delivers High Power and Excellent Fuel Efficiency through Advanced Engine Technologies
- Offers an Optimized Layout for High Reliability,
 Durability, Usability and Mountability

Upper mounted air-cleaner

Newly designed dual filtration system mounted upper level to taking cleaner air.



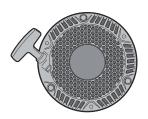
Large fuel tank

The large capacity, compact and lighter fuel tank (5.5 liters) offers increased autonomy.



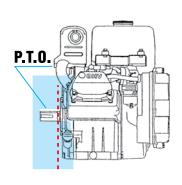
Fine starter case

Rust free Honey-comb faced starter cover re-arrangeable its angle by each 45 degrees.



Clean P.T.O. face

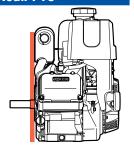
The clean P.T.O. mounting face without exhaust components improves mountability to machinery.





Flush faced "Clean PTO"

Flush faced clean PTO accepts several application easily.



Toughness moving parts

Microwave harden Crankshaft, Camshaft and optional Balancer shaft with dual bearing support provide extremely long life.



Dry weight

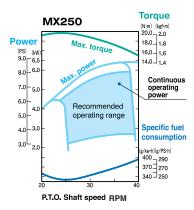
Dimension L×W×H

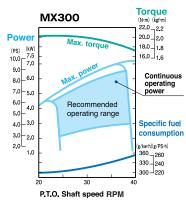
High-tech exhaust valve

Stellite® coated and tufftride® finished exhaust valve resists very high temperature.



PERFORMANCE CURVE

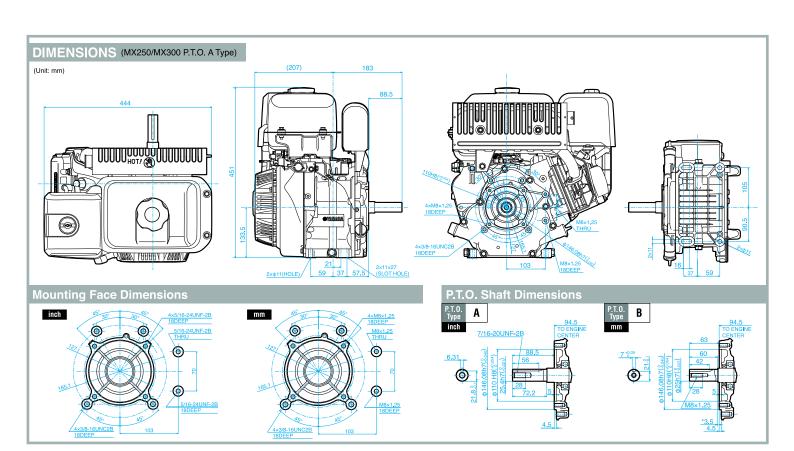




SPECIFICATIONS MX250 **MX300** Model name Hemi-head OHV Type Bore × Stroke 80 × 59 mm Displacement 296 cm³ Compression ratio 8.4 6.4 kW @3600 RPM 7.0 kW @3600 RPM Max output 5.3 kW @3600 RPM 5.8 kW @3600 RPM Rated output Max torque 19.7 Nm @2400 RPM 20.3 Nm @2400 RPM 324 g/kW·h (238 g/PS·h) 307 g/kW·h (225 g/PS·h) Fuel consumption ratio Fuel 5.5 L Fuel tank capacity Ignition system T.C.I. NGK BPR4ES Spark plug Lubrication system Mechanical splash Oil pan capacity 1.0 L

26.5 kg (Note: P.T.O. A Type)

A2E: $390 \times 444 \times 451 \text{ mm}$







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US EPA PhaseIII

CARB TierIII

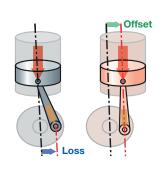
EC StageII

LEMA Phase

Offset cylinder

The new MX achieves a significant reduction in friction loss and higher engine output through the use of an offset cylinder.

The lightweight piston reduces power loss, vibration and noise.



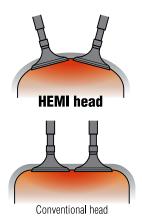
Large fuel tank

The large capacity, compact and lighter fuel tank (6.1 liters) offers increased autonomy.



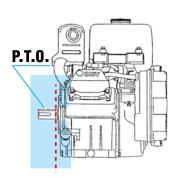
HEMI head

Optimum combustion chamber shape & valve layout in the model.



Clean P.T.O. face

The clean P.T.O. mounting face without exhaust components improves mountability to machinery.





Performance comparison

The MX engine series realizes a higher maximum output than the MZ engine series and the same-sized engines of other companies.

The minimum fuel consumption rate in the MX engine series achieves better fuel efficiency than the MZ engine series and the same-sized engines of other companies.

MAXIMUM OUTPUT RATING

*Engine Output described above is representative net output measured at 3600rpm



*As of February 1, 2016

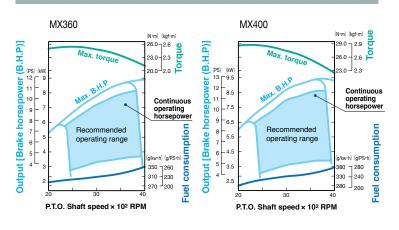
Competitor model MX400 [390cc]

FUEL CONSUMPTION RATE COMPARISON *According to Yamaha survey (minimum fuel consumption rate)



MX360

PERFORMANCE CURVE



SPECIFICATIONS

Model name	MX360	MX400	
Bore × Stroke	85 × 63.2 mm	85 × 71 mm	
Displacement	358 cm ³	402 cm ³	
Compression Ratio	8.2		
Max Power (Net)	8.7 kW (11.8 PS) / 3600 RPM	9.4 kW (12.8 PS) / 3600 RPM	
Rated Power (Net)	7.3 kW (9.9 PS) / 3600 RPM	7.8 kW (10.6 PS) / 3600 RPM	
Max Torque (Net)	25.4 N·m (2.6 kgf·m) / 2400 RPM	28.7 N·m (2.9 kgf·m) / 2400 RPM	
Fuel Consumption	283 g/kW·h (208 g/PS·h)	281 g/kW·h (207 g/PS·h)	
Fuel	GASOLINE		
Fuel Tank Capacity	6.1 L		
Ignition System	T.C.I		
Spark Plug	NGK BPR4ES		
Lubrication System	Mechanical Splashing		
Oil Capacity	1.1 L		
Dry Weight	33 kg (Note: P.T.O. A Type)		
Dimensions(L×W×H) 418 × 462 × 464 mm		

MZ360

DIMENSIONS (MX360/MX400 P.TO. A Type) (Unit. mm) ASS ASSESSMEN SERVICES INDEED ASSESSMENT SERVICES INDEED ASSESSMEN SERVICES INDEED ASSESSMEN SERVICES

^{*}Engine Output described above is representative net output measured at 3600rpm.



HEAD OFFICE

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