

Diesel Engines

Nearly a Century of Compact Diesel Engine Innovation, Value and Leadership

YANMAR introduced the world's first compact diesel engine in 1933 thus revolutionizing the concept of reliable and efficient compact diesel power. Nearly 100 years later, YANMAR has grown into a diversified manufacturer with a portfolio of products that serve ever growing global demand in the following industries:

Components - Industrial - Agricultural - Marine - Energy

YANMAR products continue to be sought after worldwide by customers based on our reputation for innovation, unmatched quality, high reliability, environmental stewardship and our focus on the customer and the environment.

Thinking Outside the Box

YANMAR compact diesel engines are available in single, two, three and four cylinder configurations with output ratings ranging from 4.7 through 83.5 horsepower. YANMAR is proud to claim that we maintain in-house control and expertise in



engine and engine component design and manufacturing which allow YANMAR to offer compact diesel engines characterized by:

- Compact Size
- Low Noise and Vibration
- Superior Fuel Economy
- Emissions Compliance
- Reliability and Durability

Environmentally Focused

YANMAR's commitment to a greener environment extends beyond clean, quiet, compact diesel engines. It's inherent in our culture and our commitment of "Grateful to serve for a better world." All YANMAR facilities make every effort to reduce air, water and noise pollution and recycle waste materials.

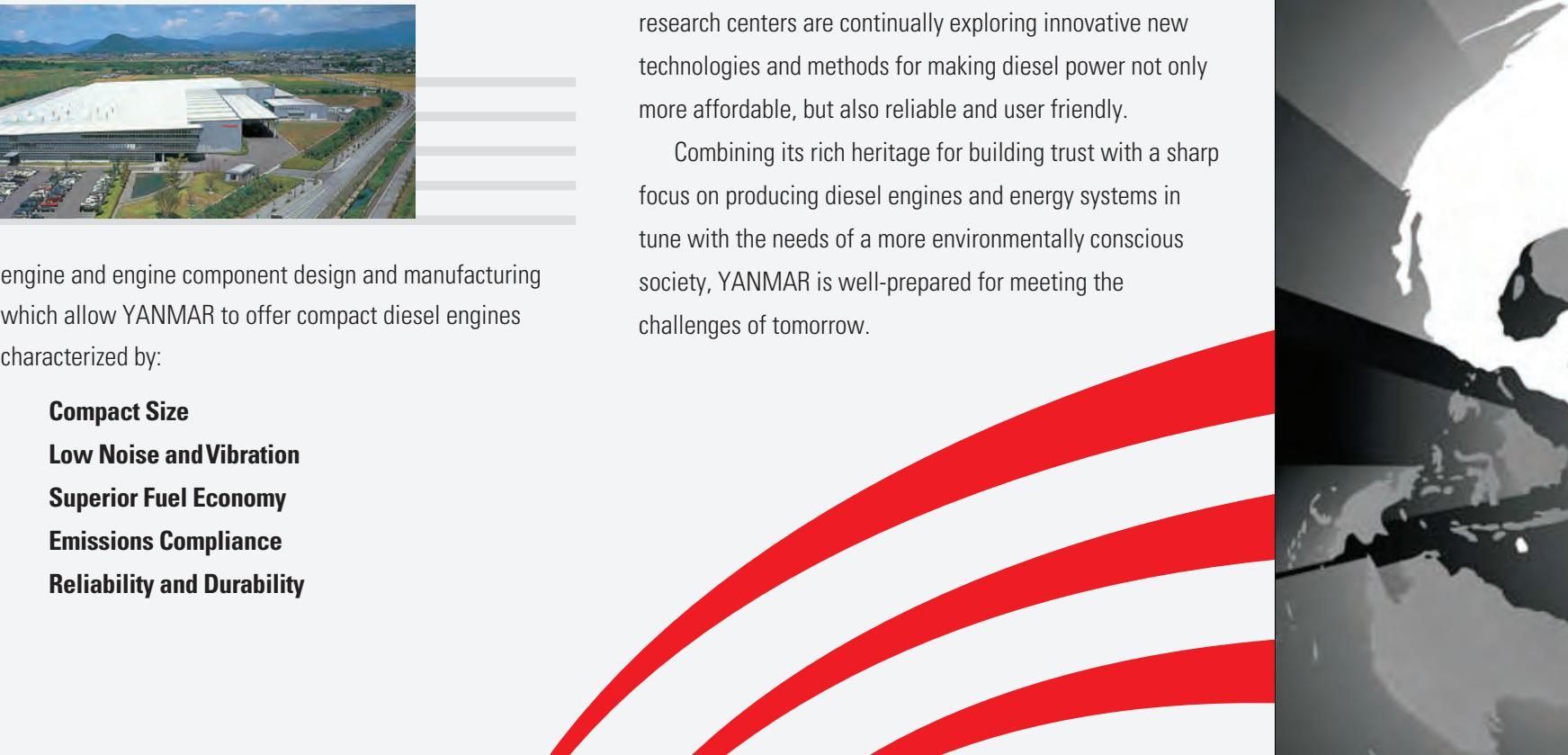
Quality Counts Most

Throughout nearly a century of growth and success YANMAR has never lost sight of its mission: "To be an innovator and leader in harnessing energy through the delivery of unrivaled products and services." As a result, the company's reputation for quality and dedication to customer satisfaction, across the board, is second to none.

Attesting to its strict adherence to the industry's best practices and highest quality standards, every one of YANMAR's manufacturing plants is ISO 9001 certified. Additionally, the company is proud to have been awarded the Deming Prize – the apex of manufacturing excellence.

Backed by a significant investment in R&D, YANMAR research centers are continually exploring innovative new technologies and methods for making diesel power not only more affordable, but also reliable and user friendly.

Combining its rich heritage for building trust with a sharp focus on producing diesel engines and energy systems in tune with the needs of a more environmentally conscious society, YANMAR is well-prepared for meeting the challenges of tomorrow.



Global Reach

YANMAR is constantly expanding in order to keep its manufacturing centers close to its customers.

Organized into six sales companies and ten manufacturing companies, YANMAR is an integrated global network of technical centers, engine plants and strategically positioned parts depots, including operations in the United States.

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L-V Series

MINIMAX Series

TNV Series

TNV Gen Drives

YDG Series



Nearly a Century of

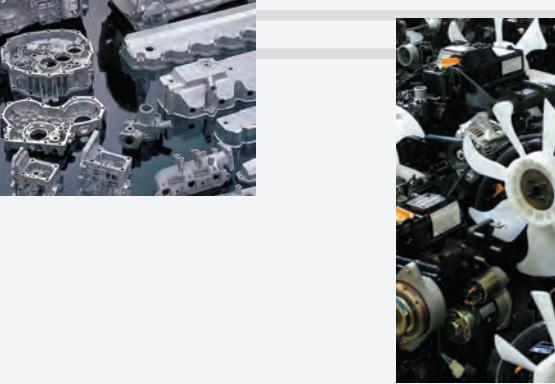
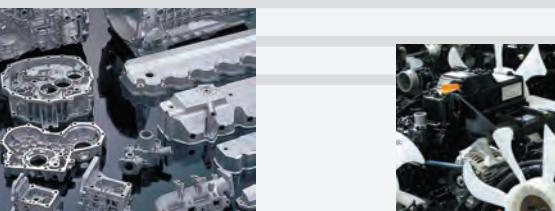
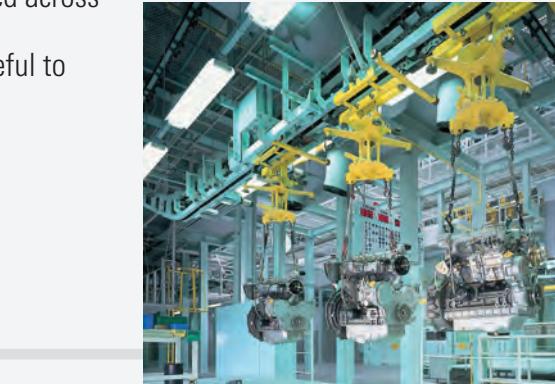
Innovation and Leadership

In 1912 automobile manufacturing, as we know it, was in its infancy; the move to mechanize farming, boating, construction and a host of other industries was just beginning to gain momentum. Yet in Japan, a young, family-owned company named YANMAR was already establishing itself as a leading engine maker – not only by building a quality product, but also by building trust.

From the company's humble beginnings in Osaka, Japan, YANMAR's founders saw opportunity for growth – built on the simple concept of working with others to produce the compact and efficient engines and implements that would power our world.

Today, through enduring business relationships forged across

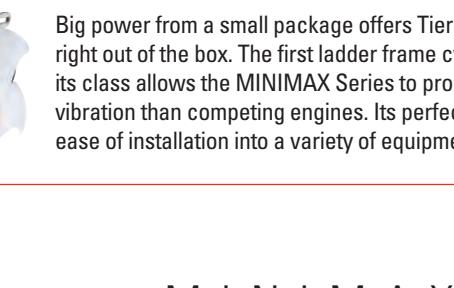
more than 130 countries, YANMAR's motto of "Grateful to serve for a better world" is more relevant than ever.



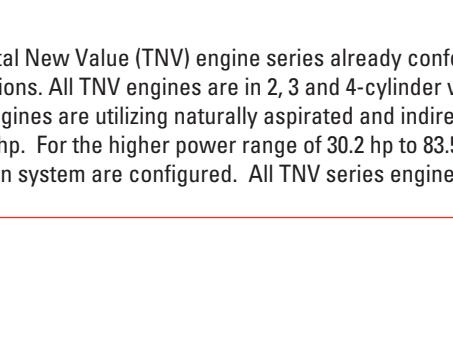
YANMAR



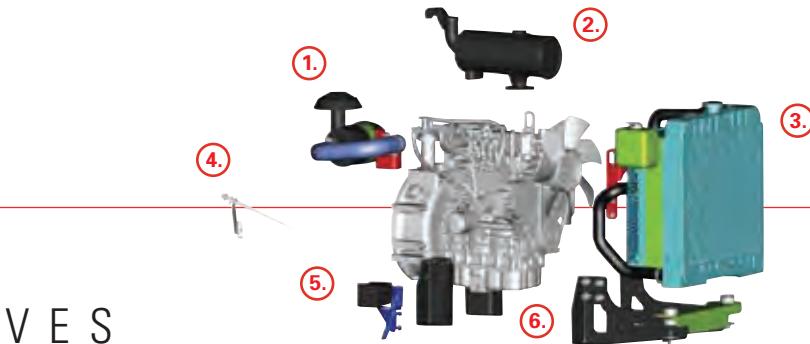
These single-cylinder, air-cooled direct injection diesel engines are EPA & CARB exhaust emission compliant and utilize a counter-balancing system for smooth, high speed operation. Multiple PTO shaft are available along with electric or recoil starting. Three power levels are offered.



Big power from a small package offers Tier 4 compliance right out of the box. The first ladder frame cylinder block in its class allows the MINIMAX Series to produce less noise and vibration than competing engines. Its perfect size means ease of installation into a variety of equipment.



The Total New Value (TNV) engine series already conforms to the strict EC (European) and EPA (USA) emission regulations. All TNV engines are in 2, 3 and 4-cylinder versions, four-cycle, water-cooled, inline configuration. TNV engines are utilizing naturally aspirated and indirect fuel injection system for the power ranges from 13.7 hp to 25.0 hp. For the higher power range of 30.2 hp to 83.5 hp, naturally aspirated or turbocharged with direct fuel injection system are configured. All TNV series engines offer an electric start function.

YANMAR**L-V SERIES**

Model - Modelo - Modèle	L70V	L100V
Cylinders - Cilindros - Nombre de Cylindres	1	
Bore x Stroke, inches	3.0 x 2.6	3.4 x 2.9
Diámetro x Carrera, mm - Alésage x Course, mm	78 x 67	86 x 75
Displacement, in³	19.5	26.6
Cilindrada, cc - Cylindrée, cc	320	435
Combustion Type	Direct Injection	
Tipo de Combustión - Type de Combustion	Inyección Directa - Injection Directe	
Aspiration	Natural Aspiration	
Aspiración - Aspiration	Aspiración Natural - Non Suralimenté	
Net Intermittent Hp	6.4	9.1
Potencia Neta Intermitente, kW - Puissance Intermittente net, kW	4.8	6.8
Rated Speed, rpm	3600	
Velocidad de Régimen, rpm - Vitesse nominale, rpm		
Governor Type	Mechanical	Mechanical
Tipo de Gobernador	Mecánico	Mecánico
Type de Gouverneur	Mécanique	Mécanique
Length, inches	14.9	16.4
Longitud, mm - Longueur, mm	378.2	417.0
Width, inches	16.6	18.5
Ancho, mm - Largeur, mm	422.0	470.5
Height, inches	17.8	19.4
Alto, mm - Hauteur, mm	453.0	493.0
Dry Weight, lbs. (Recoil Start)	78	106
(Arranque Manual) Peso en Seco, kg	35.5	48.0
Poids à sec, kg (Démarrage manuel)	500	505
Dry Weight, lbs. (Electric Start)	88	120
(Arranque Eléctrico) Peso en Seco, kg	40.0	54.5
Peso en Seco, kg - Poids à sec, kg	73	77

YDG SERIES

When the need arises for supplemental power, nothing takes the place of dependability. That's why our YDG series has the support of working professionals everywhere. This diesel powered generator line is produced in three versions to accommodate the most common applications. All offer great durability, low vibration, quiet operation, and recoil or electric starting. An open frame configuration means it's easy to handle and store when not in use.

Note(*): Products for Non-EPA markets are available (YDG3700 N-6EC & YDG5500 N-6EC).

MINIMAX

Model - Modelo - Modèle	3TNM68	3TNM72
Cylinders - Cilindros - Nombre de Cylindres	3	3
Bore x Stroke, inches	2.7 x 2.8	2.8 x 2.9
Diámetro x Carrera, mm - Alésage x Course, mm	68 x 72	72 x 74
Displacement, in³	47.8	55.1
Cilindrada, cc - Cylindrée, cc	784	903
Combustion Type	Indirect Injection	
Tipo de Combustión	Inyección Indirecta	
Aspiration	Natural Aspiration	
Aspiración	Aspiración Natural - Non Suralimenté	
Net Intermittent Hp	6.4	9.1
Potencia Neta Intermitente, kW - Puissance Intermittente net, kW	4.8	6.8
Rated Speed, rpm	3600	
Velocidad de Régimen, rpm - Vitesse nominale, rpm		
Governor Type	Mechanical	Mechanical
Tipo de Gobernador	Mecánico	Mecánico
Type de Gouverneur	Mécanique	Mécanique
Length, inches	14.9	16.4
Longitud, mm - Longueur, mm	378.2	417.0
Width, inches	16.6	18.5
Ancho, mm - Largeur, mm	422.0	470.5
Height, inches	17.8	19.4
Alto, mm - Hauteur, mm	453.0	493.0
Dry Weight, lbs. (Recoil Start)	78	106
(Arranque Manual) Peso en Seco, kg	35.5	48.0
Poids à sec, kg (Démarrage manuel)	500	505
Dry Weight, lbs. (Electric Start)	88	120
(Arranque Eléctrico) Peso en Seco, kg	40.0	54.5
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TNV SERIES

Model - Modelo - Modèle	2TNV 70	3TNV 70	3TNV 70	3TNV 76	3TNV 76	3TNV 82A	3TNV 82A	3TNV 82A	3TNV 84T	3TNV 84T	3TNV 84T	3TNV 88	3TNV 88	3TNV 88	4TNV 84T	4TNV 84T	4TNV 88	4TNV 88	4TNV 98	4TNV 98	4TNV 98T	
Specification - Especificación - Spécification	ASA	ASA	ASA3	CSA	CSA3	BDSA	BDSA2	BDSA3	BKSA	BKSA2	BKSA3	BDSA	BDSA2	BDSA3	ZDSA	ZDSA2	ZDSA3	BDSA	BDSA2	BDSA3	ZNSA	ZNSA
Bore x Stroke, inches	2.7 x 2.8	2.8 x 2.9				3			3			3			4			4			4	
Cylinders - Cilindros - Nombre de Cylindres	2	3		3			3			3			3			4			4			4
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Peso en Seco, kg - Poids à sec, kg	73	77																				

TNV GEN DRIVES

Model - Modelo - Modèle	2TNV 70	3TNV 70	3TNV 70	3TNV 76	3TNV 76	3TNV 82A	3TNV 82A	3TNV 82A	3TNV 84T	3TNV 84T	3TNV 84T	3TNV 88	3TNV 88	3