



**YANMAR**  
AIR-COOLED DIESEL ENGINES

# ***L-N / L-V / L-W Series***

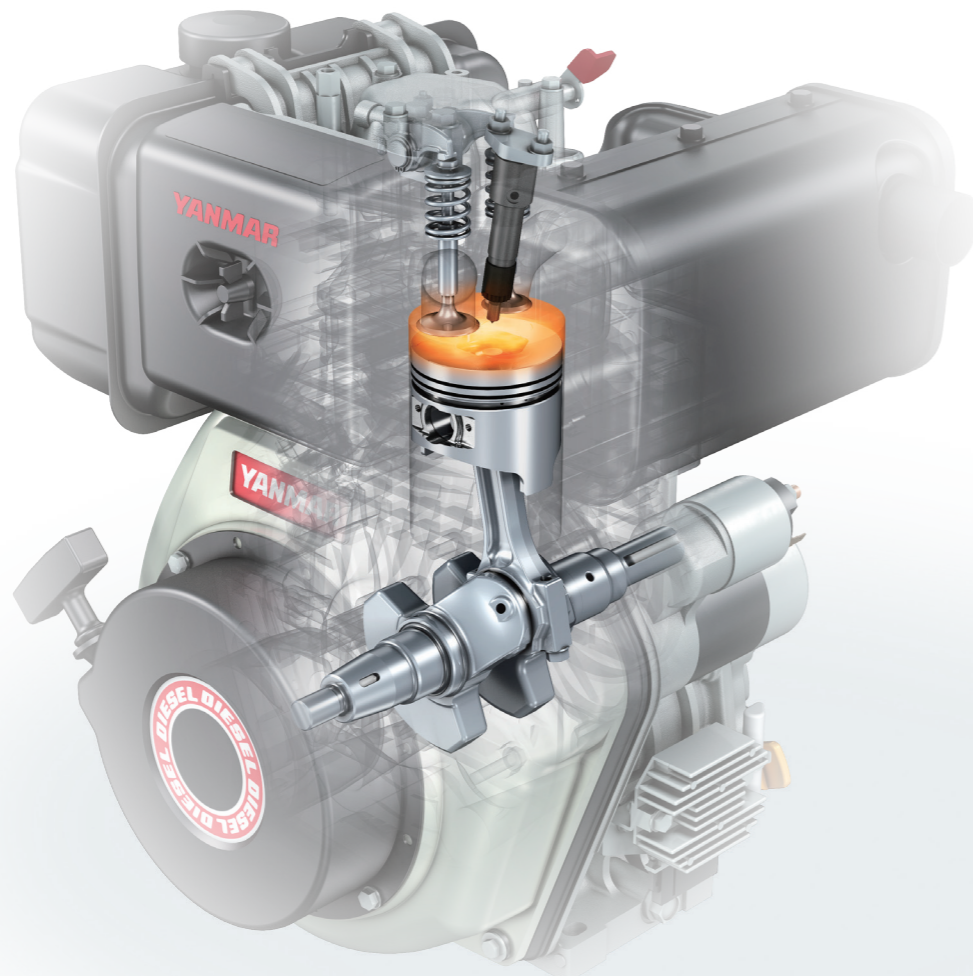
3.1 kW / 4.15 hp - 6.6 kW / 8.85 hp





# Exceeding Power & Environmental Expectations

Designed with YANMAR's proprietary direct injection technology, maximum combustion efficiency is achieved through an ideal match between the combustion chamber and injection system. This means a powerful, yet environmentally friendly engine.



## COMPACT, DIRECT INJECTION ENGINE = EASY INSTALLATION & LOW FUEL CONSUMPTION

Keeping with the traditional compact design, the L series engines are simple to install by fitting into cramped spaces without sacrificing power and performance. YANMAR's proprietary direct injection technology allows the engine to sip rather than gorge on fuel, which means lower running costs in the world of rising fuel prices.

## QUICK, EASY STARTING WITH STANDARD RECOIL

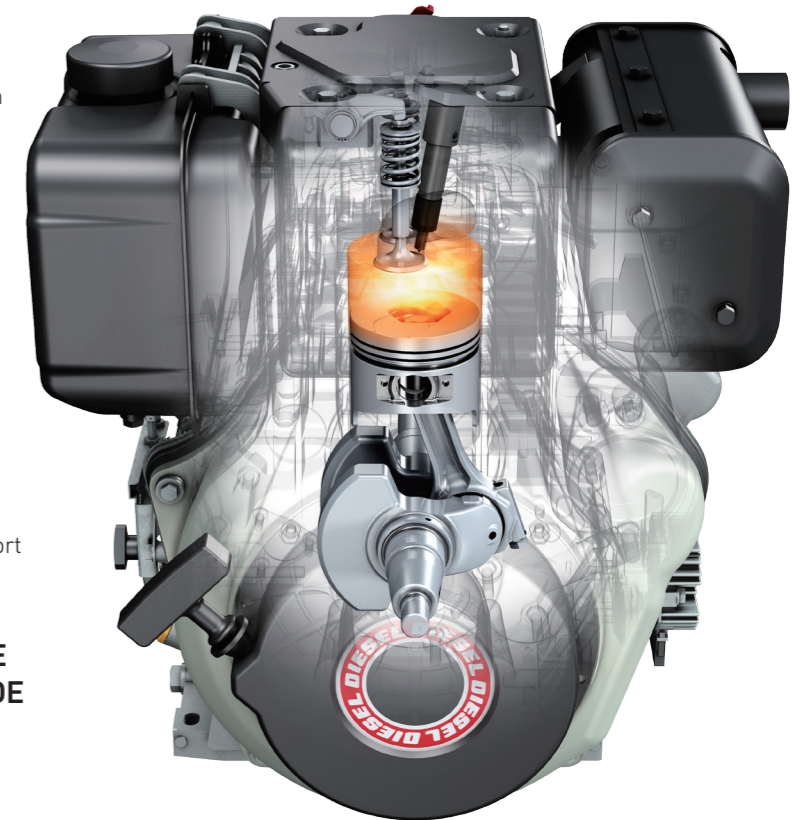
A special auto-return decompressor and YANMAR's own efficient combustion system breeze through starting with electric starting also offered as an option.

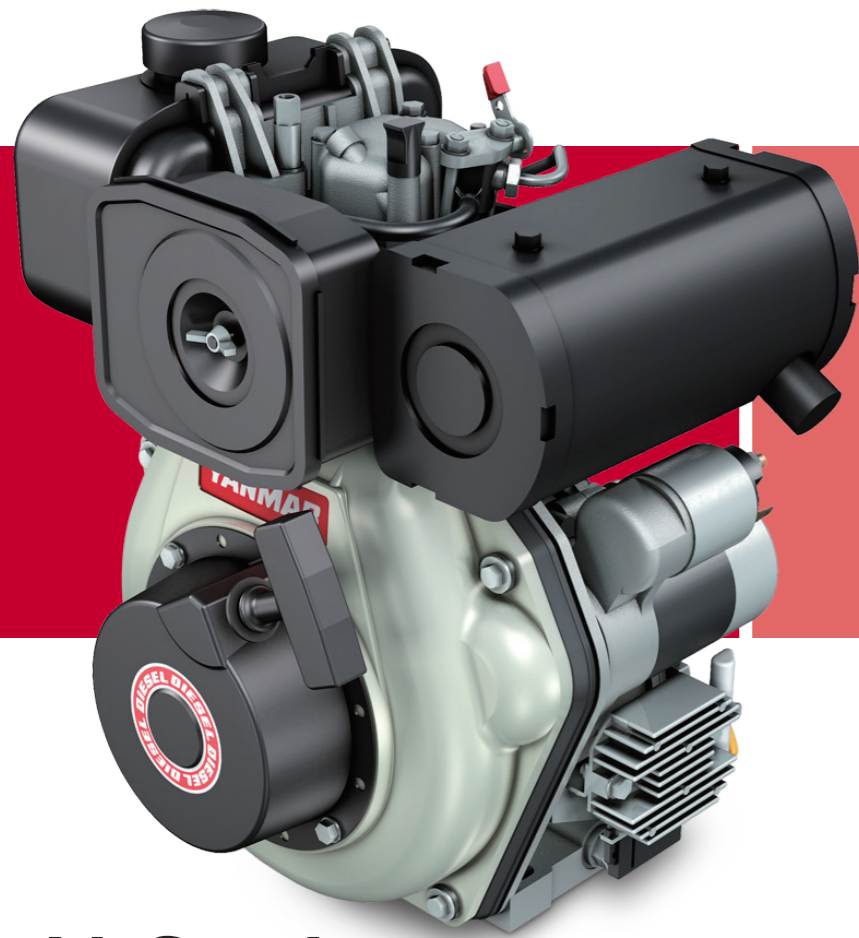
## LOW VIBRATION AND NOISE

Superior vibration and noise reduction is achieved through the use of precision balancers, which leads to operating comfort even during long work hours.

## THE TOTAL FIE EXPERTISE ONLY A COMPLETE DIESEL ENGINE MANUFACTURER CAN PROVIDE

YANMAR developed one of the world's smallest fuel injection systems. We have since raised it to a level of efficiency that ensures maximum power from every drop of diesel. Its extraordinarily low fuel consumption is a result of our super-precise FIE, and our direct injection system, the first to ever go into this type of engine.



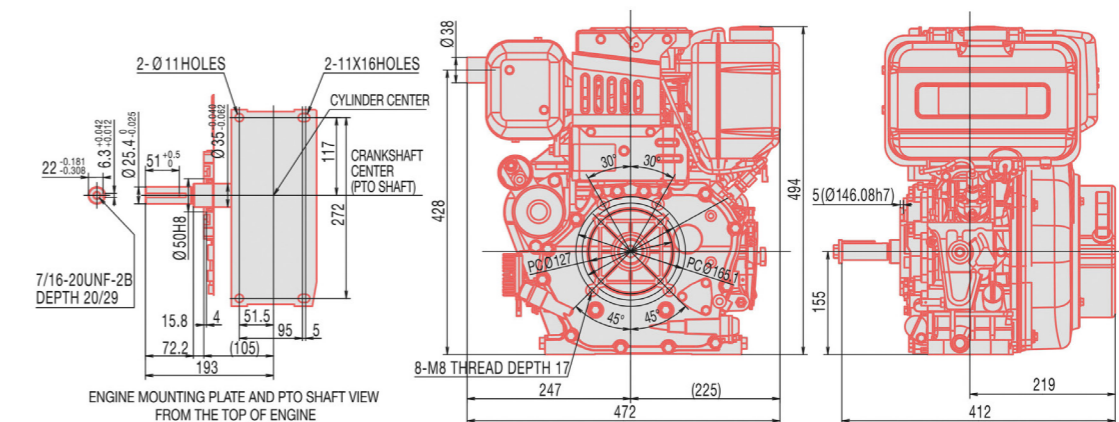
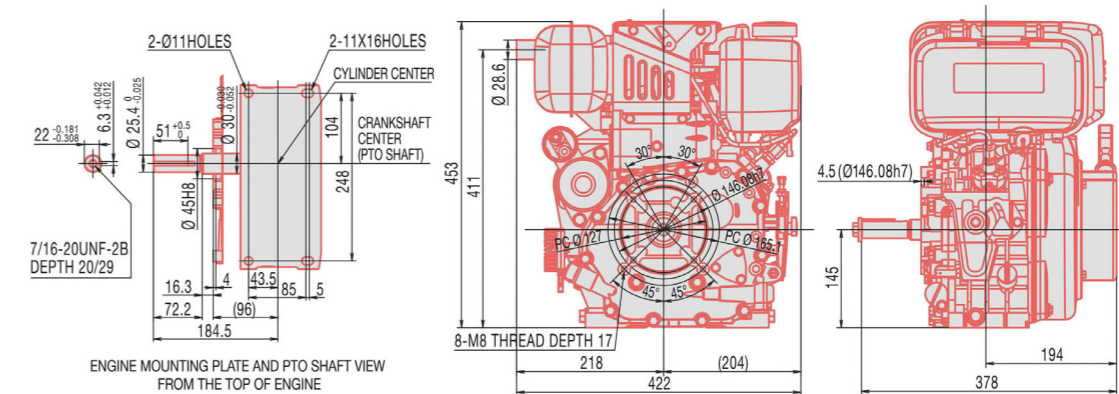
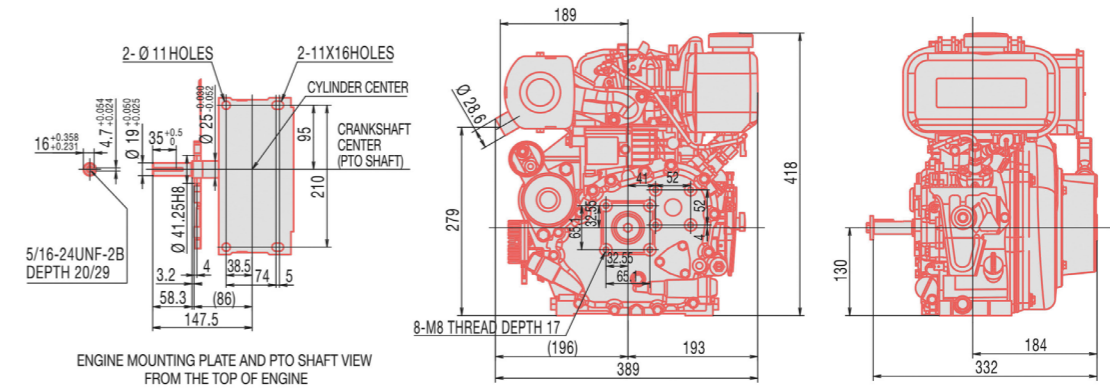


# L-N Series (Export Only) Air-Cooled Diesel Engine

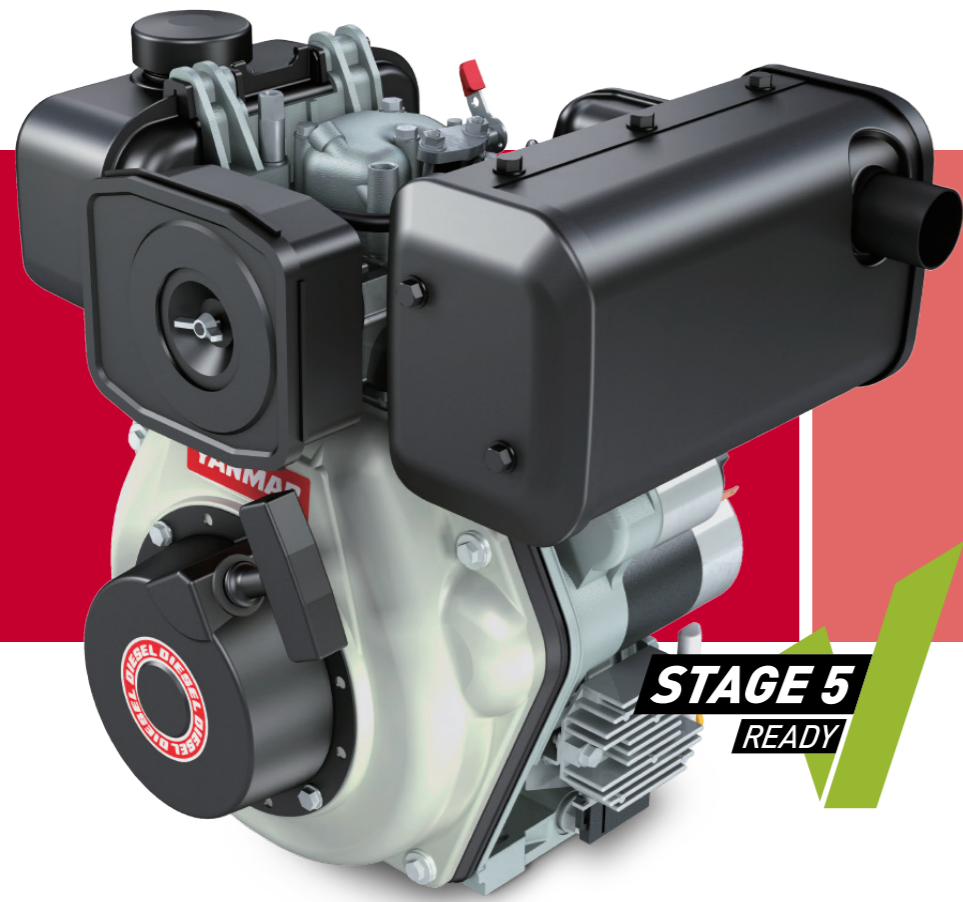
**L48N**  
Output : 3.1 kW (4.15 hp)

**L70N**  
Output : 4.4 kW (5.9 hp)

**L100N**  
Output : 6.6 kW (8.85 hp)



Engine Model		L48N	L70N	L100N				
Type		4 stroke, vertical cylinder, air cooled diesel engine						
No. of Cylinders		1						
Bore x Stroke		70 x 57	78 x 67	86 x 75				
Displacement		219	320	435				
Continuous Rated Output	Engine Speed	r/min	3600	3000	3600	3000	3600	3000
	Output	hp / kW	4.15 / 3.1	3.75 / 2.8	5.9 / 4.4	5.5 / 4.1	8.85 / 6.6	7.7 / 5.7
Maximum Rated Output	Engine Speed	r/min	3600	3000	3600	3000	3600	3000
	Output / Eng. Speed	hp / kW	4.7 / 3.5	4.2 / 3.1	6.6 / 4.9	6.0 / 4.5	10.0 / 7.4	8.7 / 6.5
High Idling		r/min	3800 ± 30	3175 ± 30	3800 ± 30	3175 ± 30	3800 ± 30	3175 ± 30
Engine Weight (Dry)	Electric Starter	kg	32.0	41.0	53.5			
	Recoil Start	kg	27.0	36.0	48.5			
Cooling System		Forced air by flywheel fan						
Lubricating System		Forced lubrication with trochoid pump						
Starting System		Electric / recoil						
Dimension	Overall Length	mm	332	378	412			
	Overall Width	mm	384	422	472			
	Overall Height	mm	417	453	494			
Lubricating System	Dipstick Upper Limit	litre	0.80	1.1	1.6			
	Dipstick Lower Limit	litre	0.60	0.7	1.0			
Fuel Oil Tank Capacity		litre	2.4	3.3	5.4			

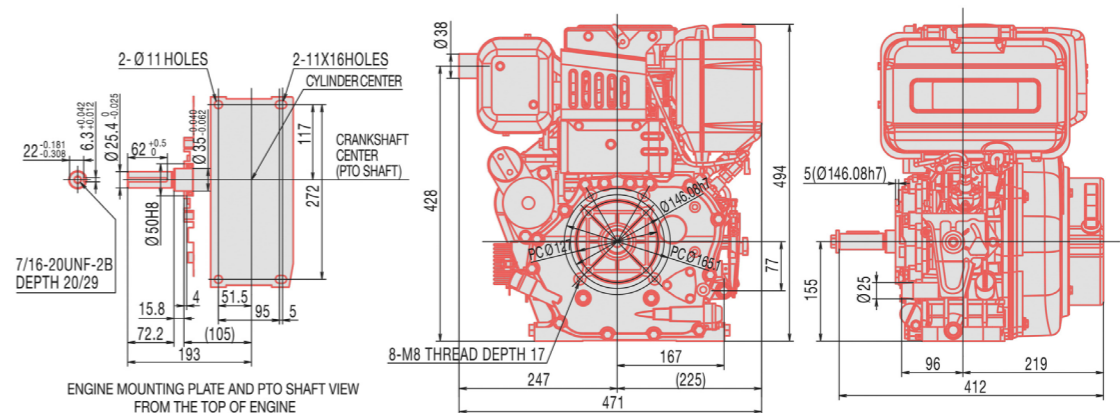
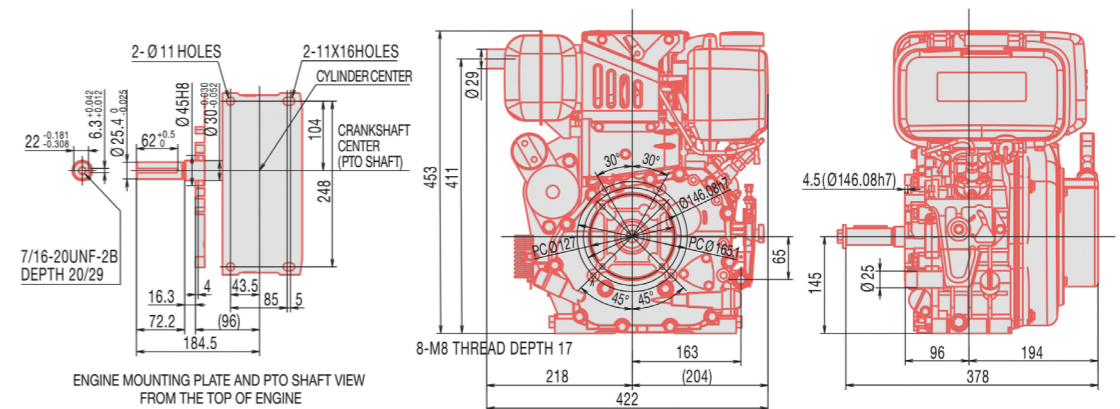
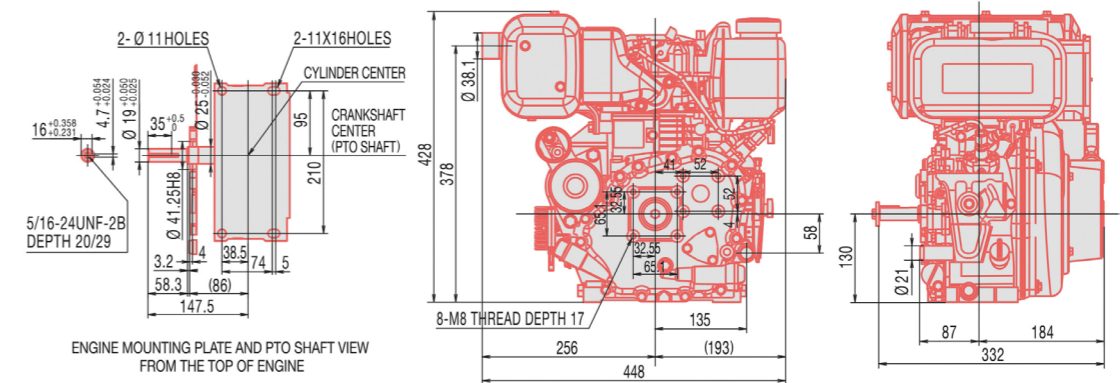


# L-V Series Air-Cooled Diesel Engine

**L48V**  
Output : 3.1 kW (4.15 hp)

**L70V**  
Output : 4.3 kW (5.8 hp)

**L100V**  
Output : 6.2 kW (8.3 hp)



Engine Model		L48V	L70V	L100V				
Type		4 stroke, vertical cylinder, air cooled diesel engine						
No. of Cylinders		1						
Bore x Stroke		mm	70 x 57	78 x 67	86 x 75			
Displacement		cc	219	320	435			
Continuous Rated Output	Engine Speed	r/min	3600	3000	3600	3000	3600	3000
	Output	hp / kW	4.15 / 3.1	3.62 / 2.7	5.8 / 4.3	5.3 / 4.0	8.3 / 6.2	7.6 / 5.7
Maximum Rated Output	Engine Speed	r/min	3600	3000	3600	3000	3600	3000
	Output / Eng. Speed	hp / kW	4.5 / 3.4	4.0 / 3.0	6.4 / 4.8	5.9 / 4.4	9.1 / 6.8	8.4 / 6.3
High Idling		r/min	3800 ± 30	3175 ± 30	3800 ± 30	3175 ± 30	3800 ± 30	3175 ± 30
Engine Weight (Dry)	Electric Starter	kg	34.5	41.0	53.5			
	Recoil Start	kg	29.5	36.0	48.5			
Cooling System		Forced air by flywheel fan						
Lubricating System		Forced lubricating system						
Starting System		Electric / recoil						
Dimension	Overall Length	mm	332	378	412			
	Overall Width	mm	448	422	472			
	Overall Height	mm	425	453	494			
Lubricating System	Dipstick Upper Limit	litre	0.80	1.1	1.6			
	Dipstick Lower Limit	litre	0.60	0.7	1.0			
Fuel Oil Tank Capacity		litre	2.4	3.3	5.4			



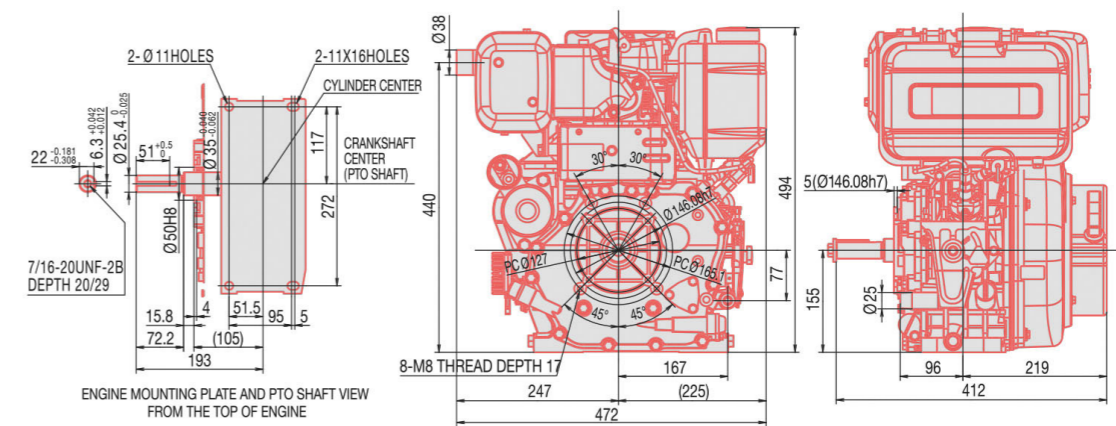
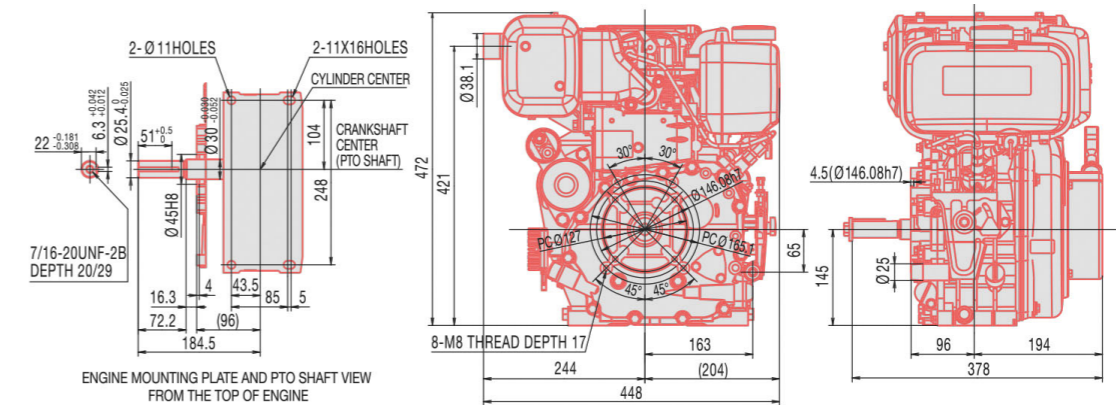
# L-W Series (EPA-USA FT4)

## Air-Cooled Diesel Engine

**L70W**  
Output : 4.3 kW (5.8 hp)

**L100W**  
Output : 6.2 kW (8.3 hp)

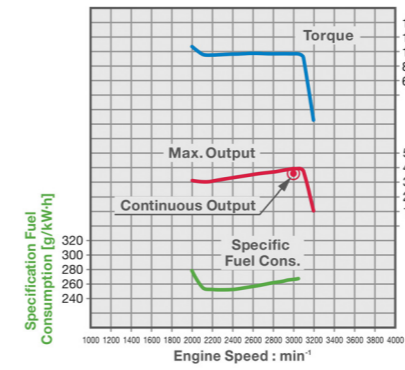
Engine Model			L70W	L100W
Type			4 stroke, vertical cylinder, air cooled diesel engine	
No. of Cylinders			1	
Bore x Stroke		mm	78 x 67	86 x 75
Displacement			cc	320
Continuous Rated Output	Engine Speed	r/min	3600	3600
	Output	hp / kW	5.8 / 4.3	8.3 / 6.2
Maximum Rated Output	Engine Speed	r/min	3600	3600
	Output / Eng. Speed	hp / kW	6.4 / 4.8	9.11 / 6.8
High Idling			r/min	3800 ± 30
Engine Weight (Dry)	Electric Starter	kg	43.0	53.5
	Recoil Start	kg	38.0	48.5
Cooling System			Forced air by flywheel fan	
Lubricating System			Forced lubricating system	
Starting System			Electric / recoil	
Dimension	Overall Length	mm	395	429
	Overall Width	mm	448	472
	Overall Height	mm	472	494
Lubricating System	Dipstick Upper Limit	litre	1.1	1.6
	Dipstick Lower Limit	litre	0.70	1.0
Fuel Oil Tank Capacity			litre	3.3



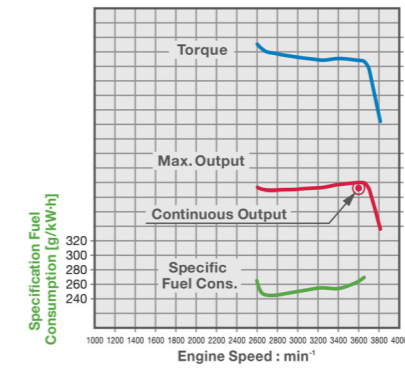


# L Series Performance Curves

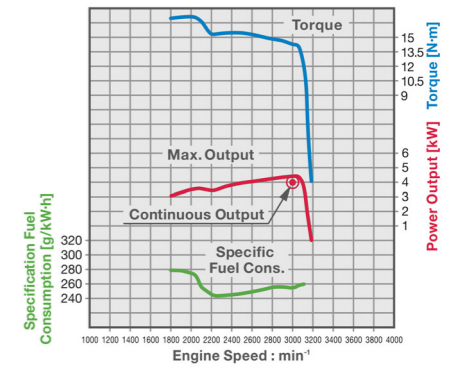
L48V5



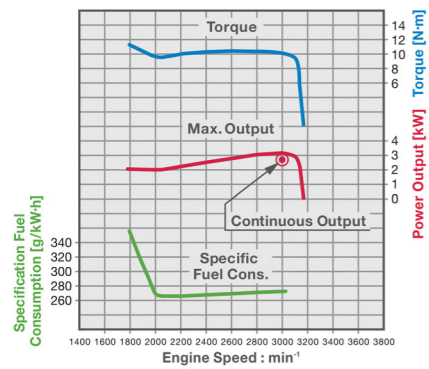
L48V6



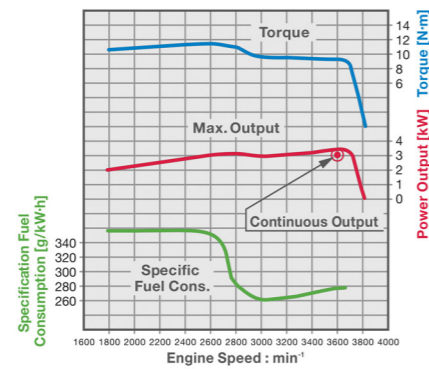
L70V5



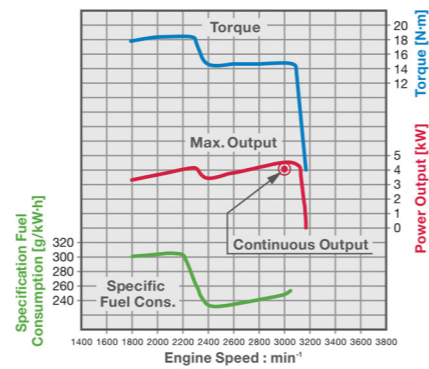
L48N5



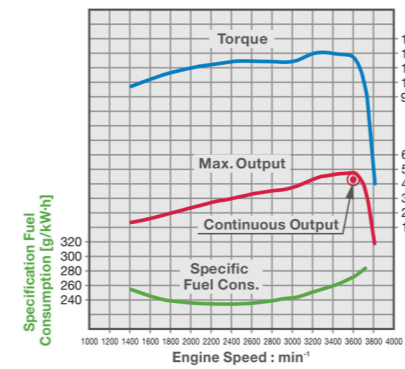
L48N6



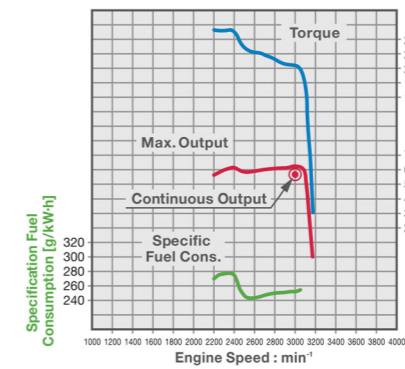
L70N5



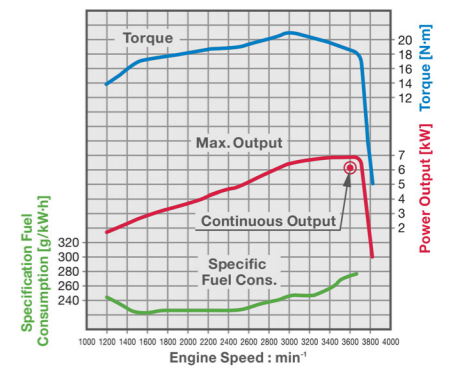
L70V6



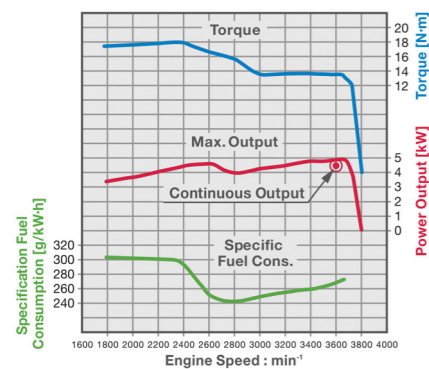
L100V5



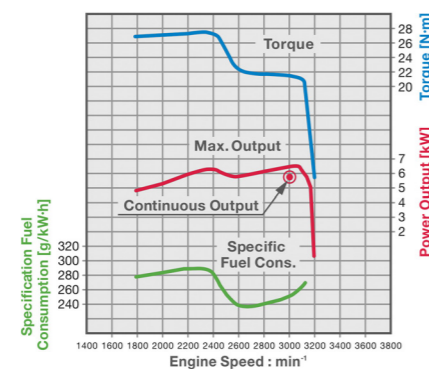
L100V6



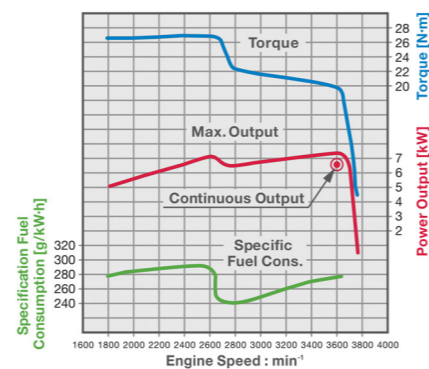
L70N6



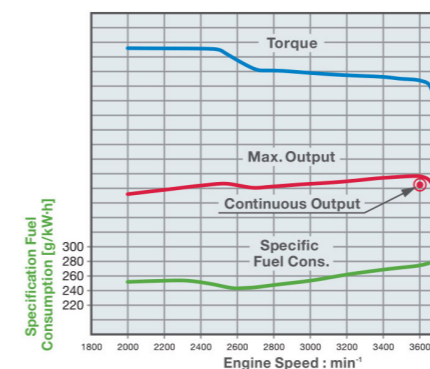
L100N5



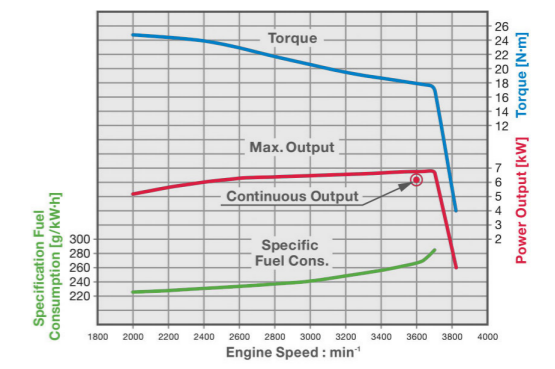
L100N6



L70W6



L100W6





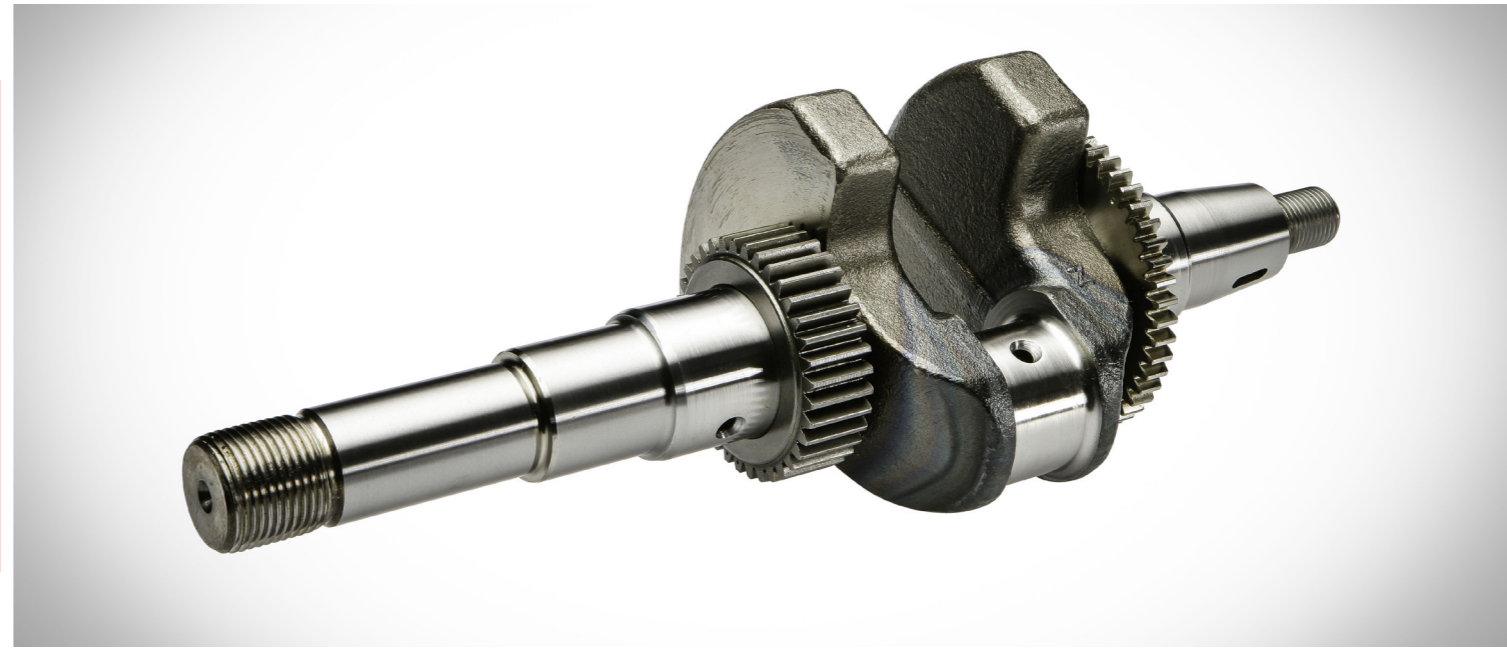
# L Series Accessories

o = Standard  
Δ = Option

\* : G = General / GE = Generator / P = Pump / V = V-machine  
Note : For other accessories, please contact your YANMAR sales network.

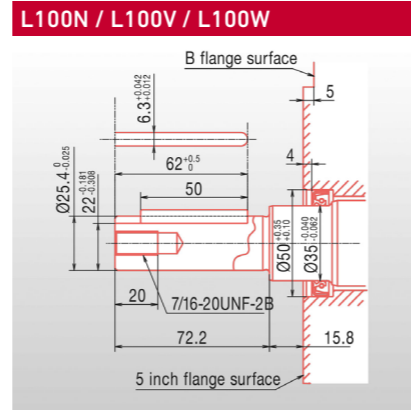
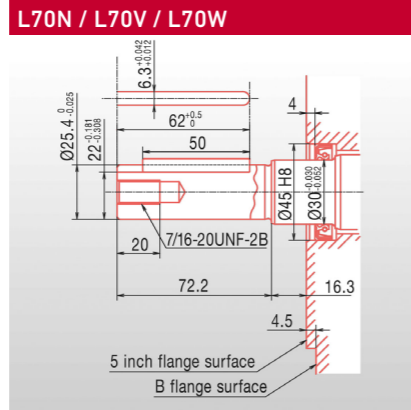
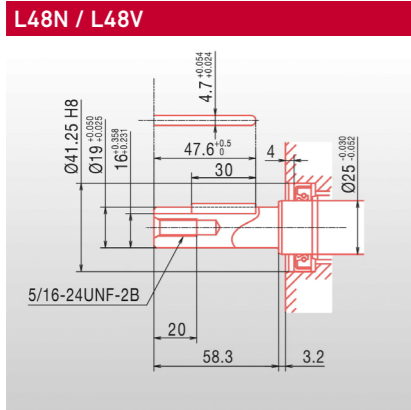
Engine Model		L48N			L70N			L100N		
Category		G	GE	P	G	GE	P	G	GE	P
Fuel System	Fuel tank (2.4 litre)	o	o	o						
	Fuel tank (3.3 litre)				o	o	o			
	Fuel tank (5.4 litre)							o	o	o
	w/o fuel tank	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ
Starting System	Starting motor (w/recoil starter)	o	o	o	o	o	o	o	o	o
	Recoil starter	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ
	Key switch	o	o	o	o	o	o	o	o	o
	w/o fuel tank	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ
Electrical System	Charging dynamo (12V-15A)	o	o	o	o	o	o	o	o	o
	Charging dynamo (12V-1A)	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ
	Fuel tank (5.4 litre)	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ
PTO System	Straight (E-D)	o			o			o		
	Straight (D)	Δ			Δ			Δ		
	Taper (E-DG)		o			o			o	
	Taper (DG)		Δ			Δ			Δ	
	Taper (E-DI)		Δ			Δ			Δ	
	Thread (E-DP)			o			o			o
Speed Control Device	General use (by remote & hand)	o	Δ	Δ	o	Δ	Δ	o	Δ	Δ
	Constant speed type (by hand)	Δ	o	Δ	Δ	o	Δ	Δ	o	Δ
	Friction plate type (by hand)	Δ	Δ	o	Δ	Δ	o	Δ	Δ	o
	Remote control type	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ
Maintenance Tools	o	o	o	o	o	o	o	o	o	o

L48V			L70V				L100V				L70V				L100V			
G	GE	P	G	GE	P	V	G	GE	P	V	G	GE	P	V	G	GE	P	V
o	o	o									o	o	o	o				
			o	o	o	o					o	o	o	o				
							o	o	o	o	o	o	o	o	o	o	o	o
Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ
o	o	o	o	o	o	Δ	o	o	o	Δ	o	o	o	Δ	o	o	o	Δ
Δ	Δ	Δ	Δ	Δ	Δ	o	Δ	Δ	Δ	o	Δ	Δ	Δ	o	Δ	Δ	Δ	o
o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ
Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ
o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o

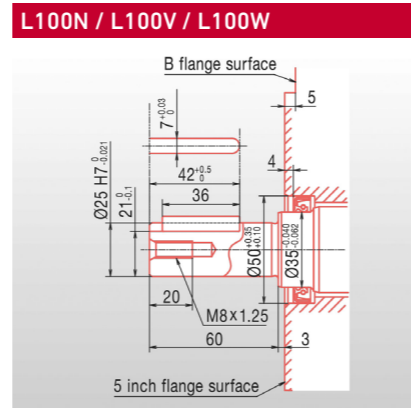
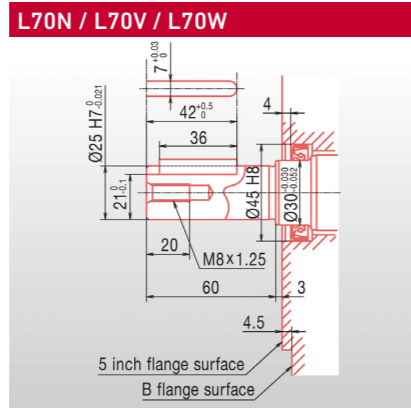
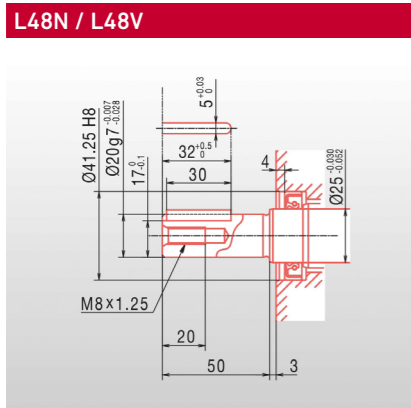


# L Series Shaft Dimensions

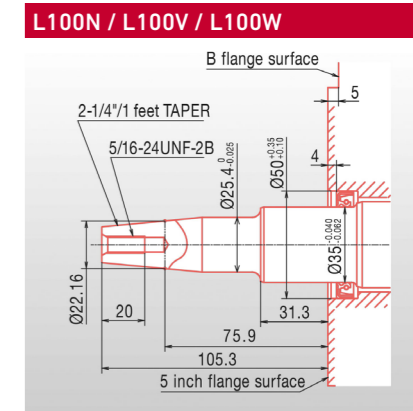
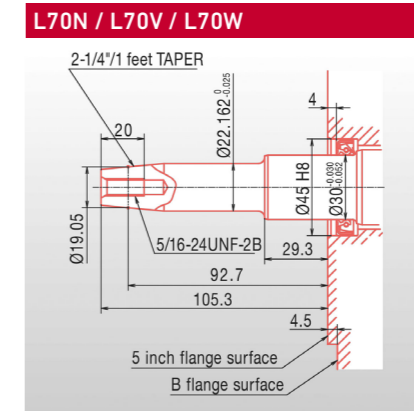
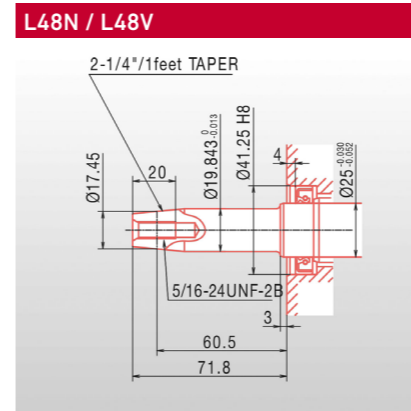
KEYWAY SHAFT E-D



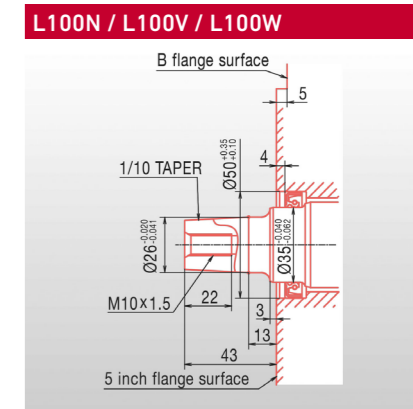
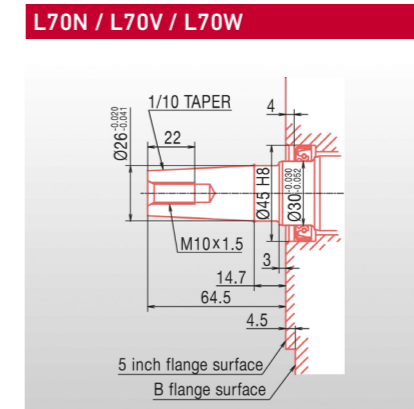
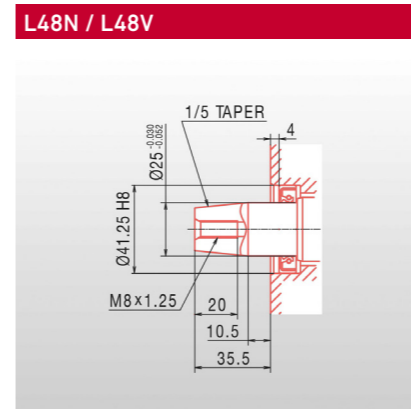
KEYWAY SHAFT D



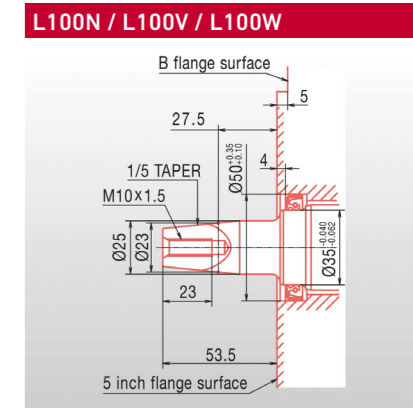
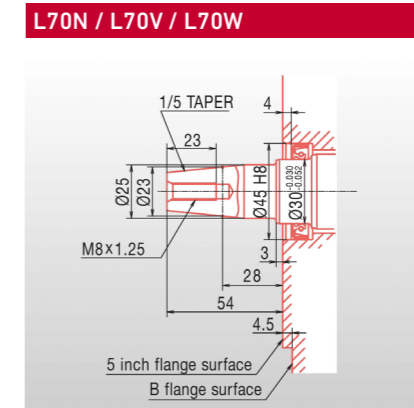
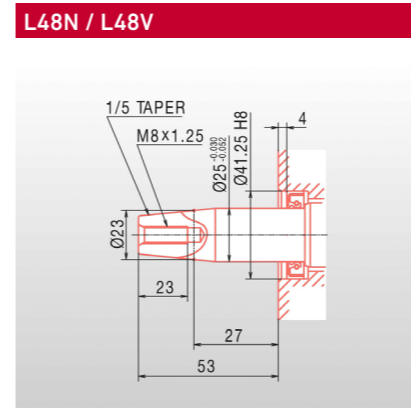
TAPER SHAFT E-DG



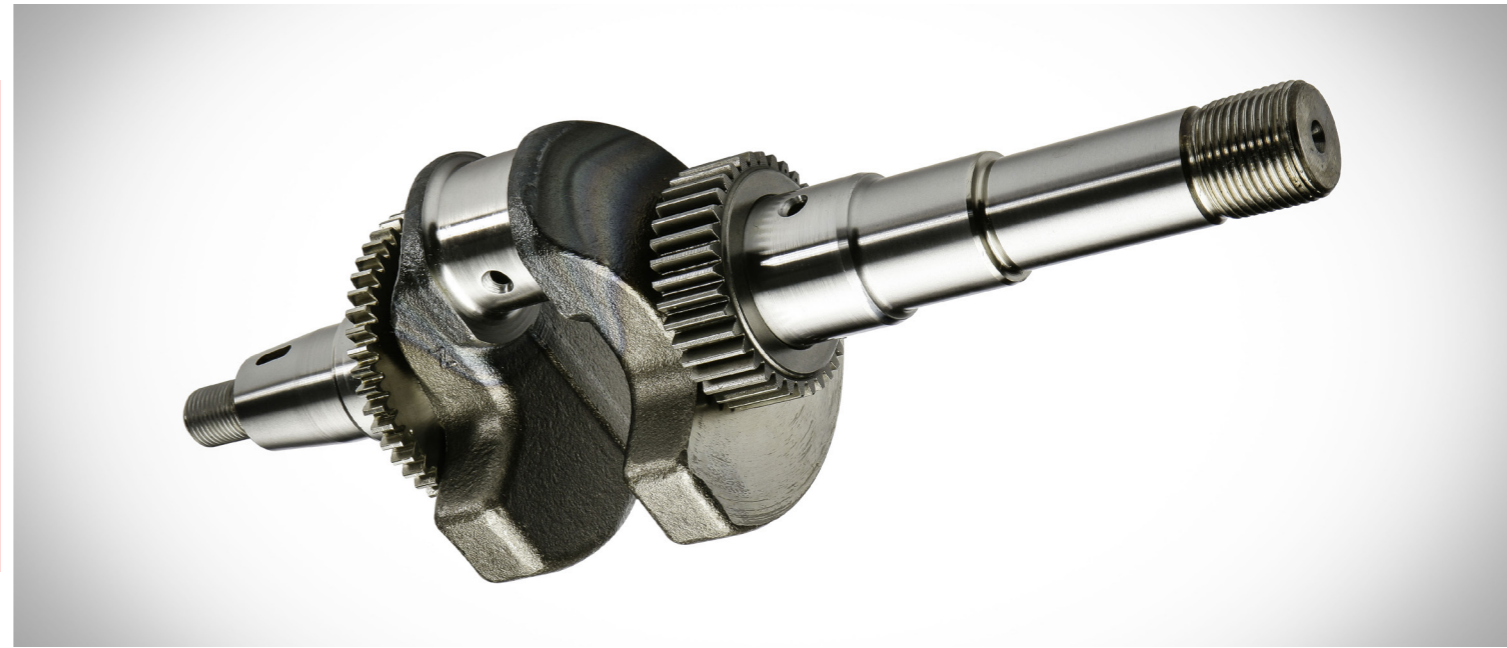
TAPER SHAFT DG



TAPER SHAFT E-DI





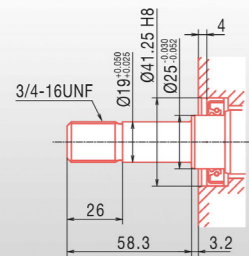


# L Series

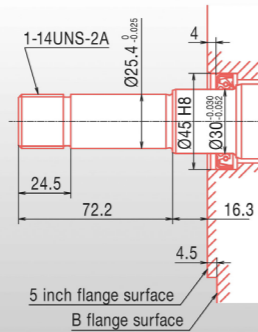
## Shaft & PTO Dimensions

THREAD SHAFT E-DP

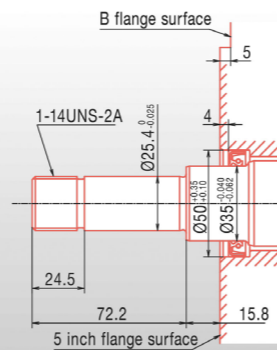
L48N / L48V



L70N / L70V / L70W

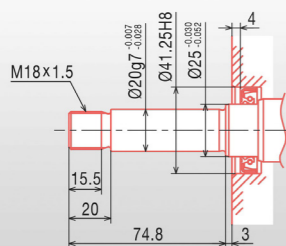


L100N / L100V / L100W

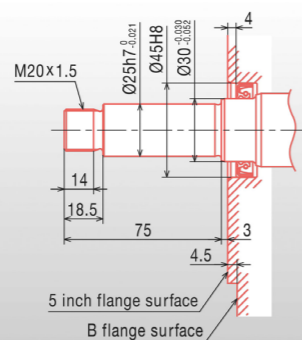


THREAD SHAFT DP

L48N / L48V

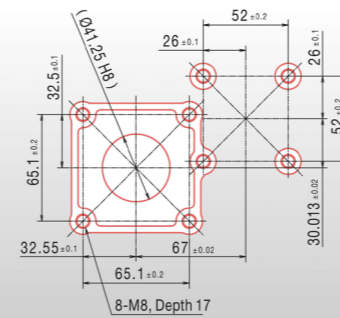


L70N / L70V / L70W



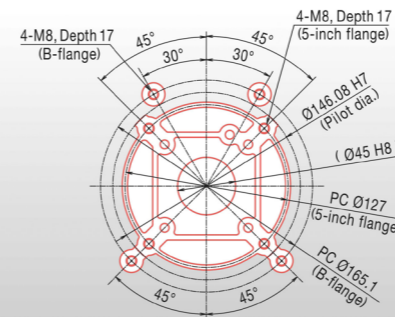
PTO FLANGES

L48N / L48V



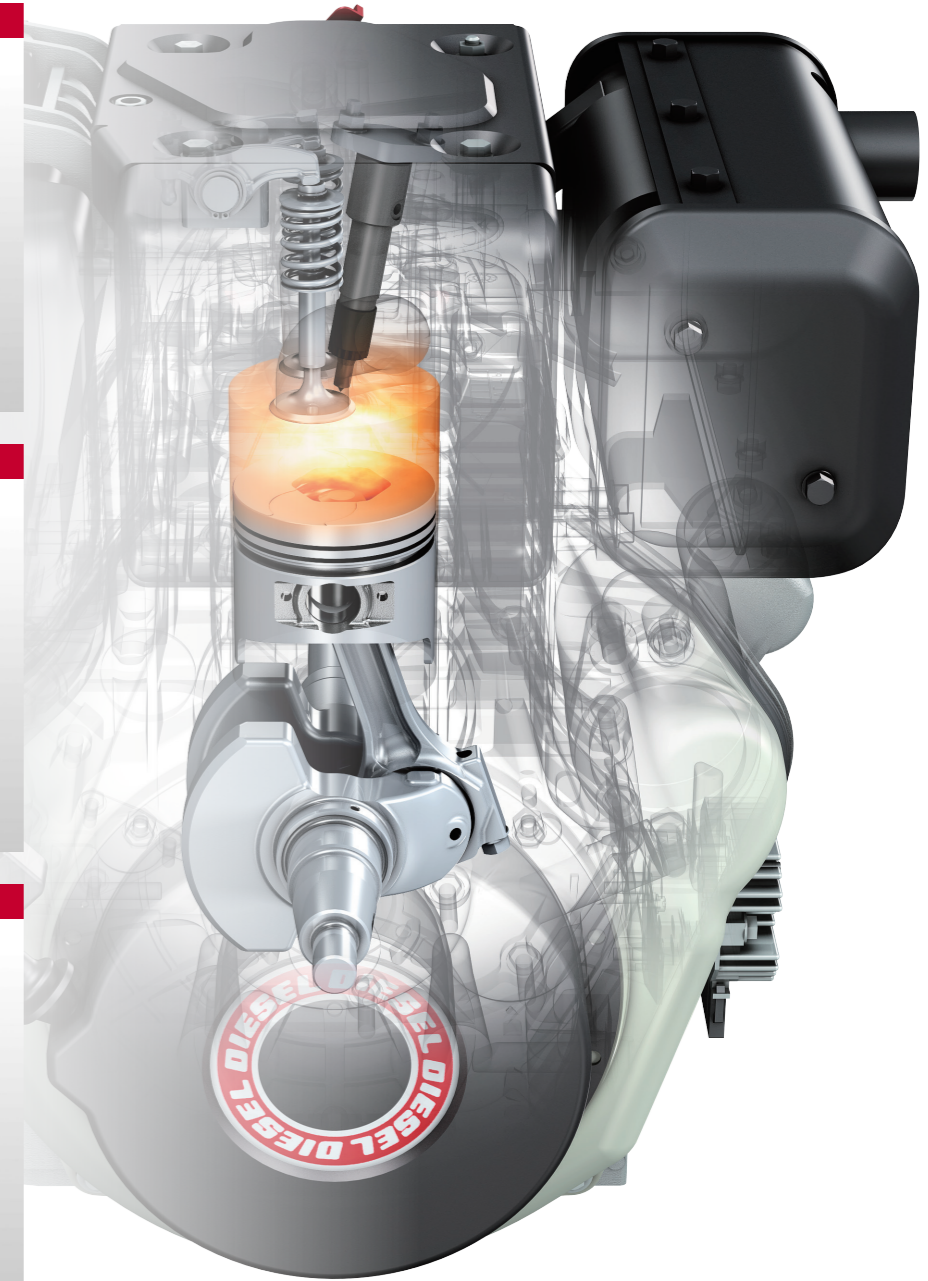
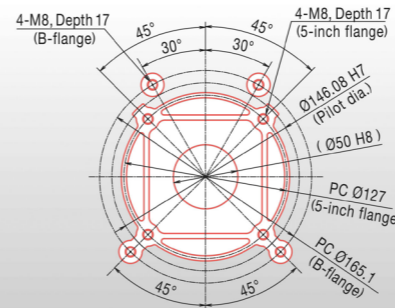
PTO FLANGES

L70N / L70V / L70W



PTO FLANGES

L100N / L100V / L100W





# Spare Parts

## Fast Moving Spare Parts

### AIR FILTERS

Genuine Yanmar air filters protect your engine against wear. They provide optimum filtration of ambient air, so that only clean air, free from dust and other contaminations even as small as 1µ enters the engine for combustion. Therefore the dirt absorption achieved by Genuine Yanmar air filters is essential for high operational efficiency and extended product life of your engine. Trouble-free. Also, Genuine Yanmar air filters, prevent the increase in fuel consumption and keep emission levels low. In this way, Genuine Yanmar air filters make a significant contribution to remain within the ever more rigorous emission standards.

- Optimum protection of the engine against wear
- Low fuel consumption and low emission levels
- Clean, reliably filtrated combustion air
- High dust separation efficiency
- Unchanging high engine performance

### OIL FILTERS

Genuine Yanmar oil filters purify lubricating oil into clean engine oil. Clean oil is vital for optimum engine performance, cooling and lubrication. Dirty oil causes unwanted wear, machine damage and less productivity. Genuine Yanmar oil filters efficiently filter

coarse and fine particles from the oil ensuring that your Yanmar engine always operates with optimum oil supply, either when cold starting, frequently restarting or operating at high load. Their high dirt capacity and optimum filtration performance provide superior protection, save maintenance costs and boost productivity during the engine's entire life. Keep your Yanmar engine in top condition with Genuine Yanmar old filters.

- High dirt absorption capacity
- Clean oil due to consistently high filtration efficiency
- Safeguard against leakage of unfiltered oil
- Long-life reduces interference and maintenance costs
- Protection against hazardous wear and tear

### FUEL FILTERS

Using only Genuine Yanmar fuel filters, you are sure to maximise the performance of your engine and maintain emissions compliance. Yanmar fuel filters are the no.1 filters to prevent water and dirt in diesel fuel from entering your engine and clogging the system. They are designed according to strict Yanmar factory standards for excellent fuel filtration, extended product life and low emission levels.

# 3 and Easy

## 3 Year Warranty



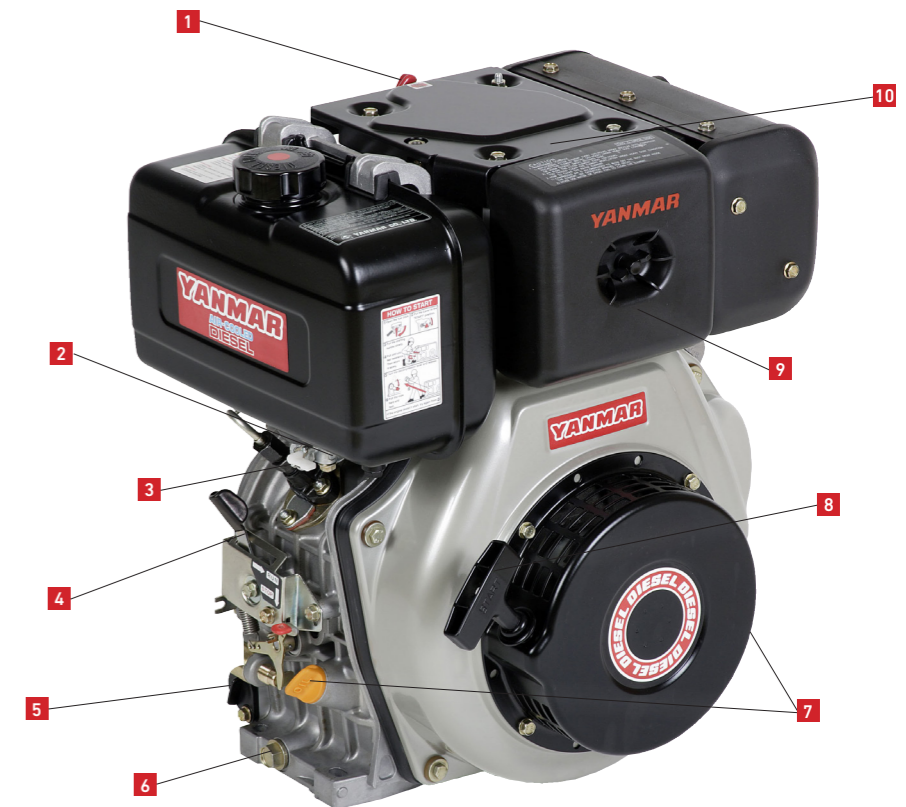
New 3-year warranty on all Yanmar L-Series air-cooled engines and TNV/TNM water-cooled engines purchased exclusively from Barrus.\*

Easy maintenance and servicing for reduced downtime.

Industry renowned for reliability in operation, and versatility to meet a wide range of applications.

### L-Series

1. Decompressor lever.
2. Fuel filter in tank with drain tap.
3. Fuel injection pump. Easy access & removal.
4. Mechanical shut down control.



5. Simple washable oil strainer.
6. Two oil drain positions. (Both sides of engine).
7. Two oil fill positions.

8. Recoil and electric start with flywheel charge system.
9. Easy access air cleaner.
10. Injector easy access and removal.



*The Power  
Behind The Brands*

**Yanmar - Supported by Barrus**

E. P. Barrus Ltd., Glen Way, Launton Road, Bicester, Oxfordshire, OX26 4UR  
Tel: 01869 363606 [www.barrus.co.uk](http://www.barrus.co.uk) [industrialsales@barrus.co.uk](mailto:industrialsales@barrus.co.uk)

