

# Alpha

20 • 30 • 40 • 45 • 55 Turbo



## WATER-COOLED MARINE PROPULSION DIESEL ENGINES FOR PLEASURE BOATS

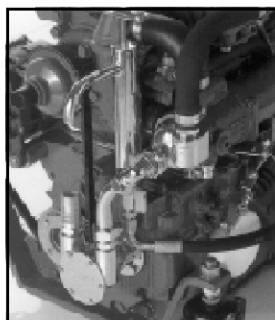
A series of two, three, four and turbocharged four cylinder diesel engines of cast iron construction with fresh water heat exchange cooling.

Designed and built by Lister-Petter to their traditional standards for long life, economy and reliability.



### Standard Features

- Hurth reversing gearbox with 2:1 reduction (nominal).
- 12 volt starter motor (insulated earth return), 55 amp alternator.
- Heat exchanger, water cooled exhaust manifold, raw and fresh water pumps, calorifier connections.
- Fuel filter with water trap, self bleed fuel system, fuel lift pump, individual fuel injection pump for each cylinder.
- Vibration isolating engine mounts.
- High level oil filler and dipstick, sump drain pump.
- Instrument panel with hour recorder, key switch and audible warnings.
- Raw water cooling system pump.
- Sump lubricating oil drain pump.
- Operators Handbook.
- 2 year warranty.



### Optional Accessories

A range of options to enable your Alpha propulsion engine to be built to your exact needs are available including:

- Alternative gearboxes.
- Instrument panels.
- Controls.
- Fuel and exhaust systems.
- Engine mounts.
- Protection systems.

Please consult Lister-Petter or your local Lister-Petter Marine Engine Centre for full details.

### Lister-Petter Marine Engine Centres

With an extensive network of distributors and dealers worldwide, Marine Engine Centres offer a comprehensive sales, installation, parts and service back-up for your Alpha marine engine.

### Owner Training Courses

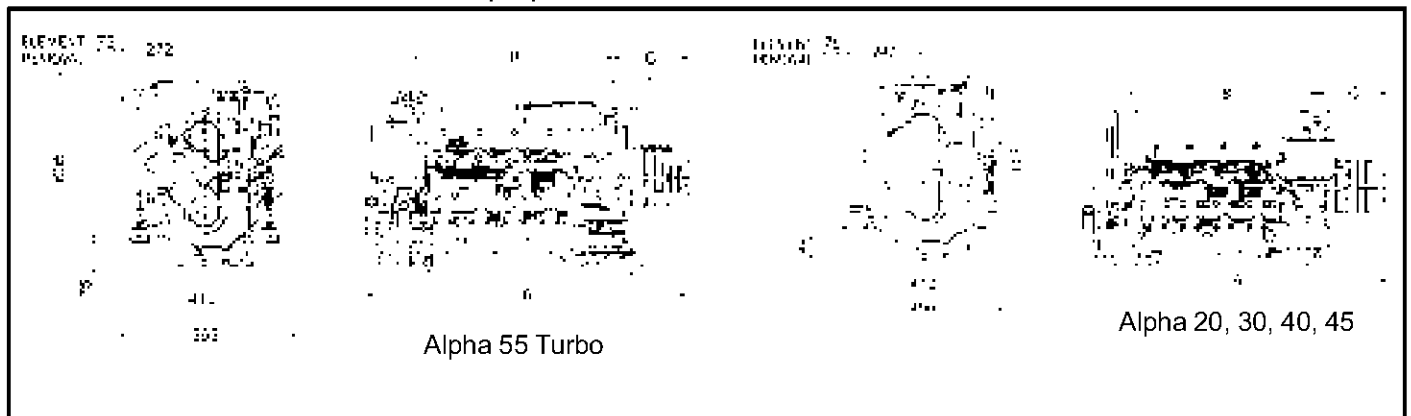
Owners of a Lister-Petter Marine engine who really want to get to know their engine can attend a short familiarisation course free of charge at headquarters in England. Courses for owners outside of the UK can be arranged locally through their Distributor..

## Technical Data

	Alpha				
	20	30	40	45	55 Turbo
Cylinders	2	3	4	4	4
Bore x Stroke	mm 86 x 80	86 x 80	86 x 80	86 x 80	86 x 80
Cubic capacity	cm <sup>3</sup> 930	1395	1860	1860	1860
Max. power at flywheel at 3000r/min	bhp 20	30	40	45	55
Max. torque at flywheel	Nm 53	80	106	112	155
	r/min 1800	1800	1800	2800	2000
Off load idle speed	r/min 900	900	900	900	900
Fuel consumption (approx) at 2200r/min	litre/hr 1.9	2.8	3.8	4.4	5.9
Oil sump capacity	litre 3.3	4.5	5.6	5.6	5.6
Net weight (dry)	kg 150	180	210	210	230
Max. installation angle (gearbox down)	20°	20°	20°	20°	20°
Propeller rotation	Clockwise viewed from the stern in forward gear				

## Approximate Dimensions

The dimensions (mm) given are for guidance only and must not be used for installation purposes.



	Alpha			
	20	30	40 and 45	Turbo 55
A	732	869	969	922
B	377	477	577	577
C	180	217	217	217
D	62	72	72	72

D is the distance of the gearbox output centre line above below the underside of the engine bearers.

[www.motoren.ath.cx](http://www.motoren.ath.cx)



The information contained in this literature is correct at the time of publication. Lister-Petter reserves the right to change specifications without prior notice.

Lister-Petter Limited, Dursley,  
Gloucestershire GL11 4HS England  
Tel: +44 (0)1453 544141  
Fax: +44 (0)1453 546732  
E-mail: [marine@lister-petter.co.uk](mailto:marine@lister-petter.co.uk)  
<http://www.lister-petter.co.uk>



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# Alpha

20DI • 30DI • 40DI • 55 Turbo



## WATER-COOLED MARINE PROPULSION DIESEL ENGINES FOR WORKBOATS AND COMMERCIAL CRAFT

A series of two, three, four and turbocharged four cylinder, direct injection diesel engines of cast iron construction with fresh water heat exchange cooling.

Designed and built by Lister-Petter to their traditional standards for long life, economy and reliability.

### Standard Features

- Direct injection combustion for easy starting, low fuel consumption and long oil change periods.
- Compact turbocharger with internal wastegate and ultra high compressor efficiency (55 Turbo).
- Heat exchange cooling with engine driven raw and fresh water pumps for long engine life.
- Hurth 2:1 reduction reversing gearbox sized to match engine power output.
- Fuel filter and water trap with spin-on cartridge.
- 12 volt starter motor (insulated earth return) and 55 amp alternator.
- Water cooled exhaust manifold with water injected exhaust bend.
- Engine mounted sump drain pump and raised dipstick for easy routine maintenance.
- Engine bearers with vibration isolating mounts to ensure smooth running
- Fuel lift pump.
- Self bleed fuel system with steel fuel lines.
- Oil cooler (55 Turbo only).
- Flexible coupling disc.
- Start / alarm panel.
- Engine wiring.
- Morse type fittings.
- Engine mounted air cleaner.
- Calorifier connections.
- Operators Handbook.



### Optional Accessories

A range of options to enable your Alpha propulsion engine to be built to your exact needs are available including:

- Alternative gearboxes.
- Instrument panels.
- Controls.
- Fuel and exhaust systems.
- Engine mounts.
- Protection systems.

Please consult Lister-Petter or your local Lister-Petter Marine Engine Centre for full details.

### Lister-Petter Marine Engine Centres

With an extensive network of distributors and dealers worldwide, Marine Engine Centres offer a comprehensive sales, installation, parts and service back-up for your Alpha marine engine.

### Owner Training Course

Owners of a Lister-Petter Marine engine who really want to get to know their engine are invited to attend a one day familiarisation course at our Dursley factory, free of charge. Courses for owners outside of the UK can be arranged locally through their Distributor.

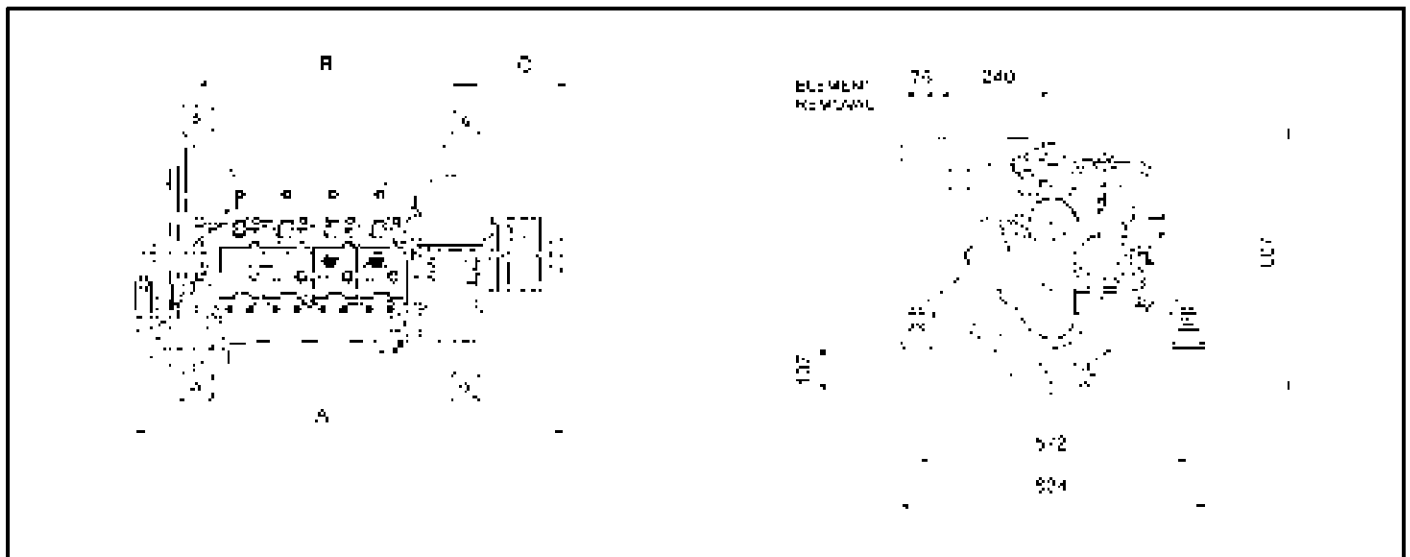
## Technical Data

		Alpha			
		20DI	30DI	40DI	55 Turbo
Cylinders		2	3	4	4
Bore x Stroke	mm	86 x 80	86 x 80	86 x 80	86 x 80
Cubic capacity	cm <sup>3</sup>	930	1395	1860	1860
Maximum power at flywheel at 3000 r/min	bhp	20	30	40	55
Maximum torque at flywheel at 2000 r/min	Nm	51	76	101	155
Off load idle speed	r/min	900	900	900	900
Fuel consumption (approx) at 2500 r/min	litre/hr	2.5	3.8	5.1	7.0
Oil sump capacity	litre	3.3	4.5	5.6	6.5*
Net weight (dry)	kg	150	180	210	230
Maximum installation angle (gearbox down)		20°	20°	20°	20°
Propeller rotation		Clockwise viewed from the stern in forward gear			

\* Including filter oil cooler

## Approximate Dimensions

The dimensions (mm) given are for guidance only and must not be used for installation purposes.



	Alpha 20DI	Alpha 30DI	Alpha 40DI	Alpha 55 Turbo
A	732	833	933	1035
B	377	538	577	644
C	180	179	241	263
D	62	74	74	89

D is the distance of the gearbox output centre line below the underside of the engine bearer.

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Lister-Petter Limited, Dursley,  
Gloucestershire GL11 4HS England  
Tel: +44 (0)1453 544141  
Fax: +44 (0)1453 546732  
E-mail: [marine@lister-petter.co.uk](mailto:marine@lister-petter.co.uk)  
<http://www.lister-petter.co.uk>

