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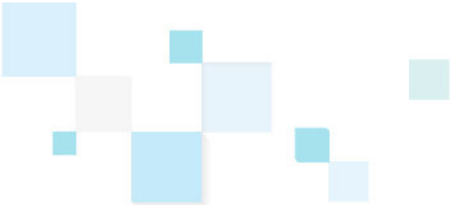
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 Turbo Diesel Engineering



OPTIMUM ONE-STOP
TURBOCHARGER SOLUTION

Maintenance | Repair | Overhaul | Troubleshooting | Parts | Service



OPTIMUM ONE-STOP TURBOCHARGER SOLUTION



COMPANY OVERVIEW

As a world leading independent turbocharger parts stockholder and service company, TDE (Turbo Diesel Engineering) provides a world class comprehensive solution to the lifecycle care of turbochargers for our customers in the marine and power industries.

Our focus is delivering high precision quality parts, exceptional service solutions, and an optimal customer experiences to the ever more demanding and complex turbocharger needs of our customers, while maintaining a competitive edge.

With high tech strategically located service centers in Houston, Shanghai, Rotterdam. We are geared to manage the most demanding requirements and deliver optimum solutions for the full range of turbochargers generally used across the marine and industrial sector.

Our highly trained service teams are supported by the most up to date equipment available and an extensive range of the stock parts which is unrivalled in our sector of the industry, this gives TDE the ability to achieve the shortest possible turnaround of your turbocharger thus minimizing downtime and cost.

The TDE stock covers both main engine and auxiliary engine turbocharger types, however we believe that our auxiliary engine turbo capabilities are unique with an industry leading range of parts from stock, from the smallest parts through cartridge, complete turbochargers, and a comprehensive exchange turbo program.

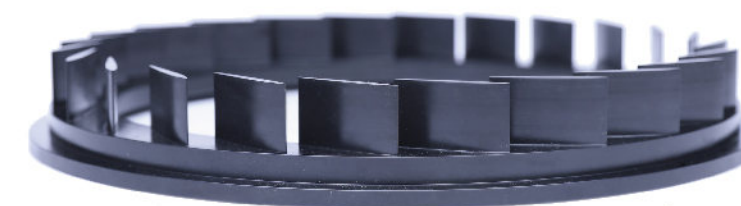
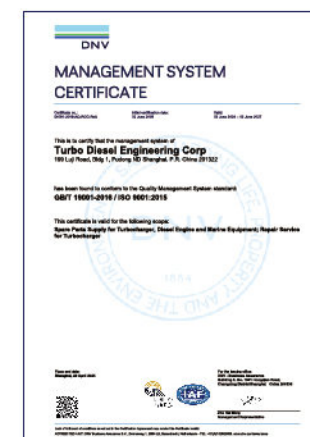
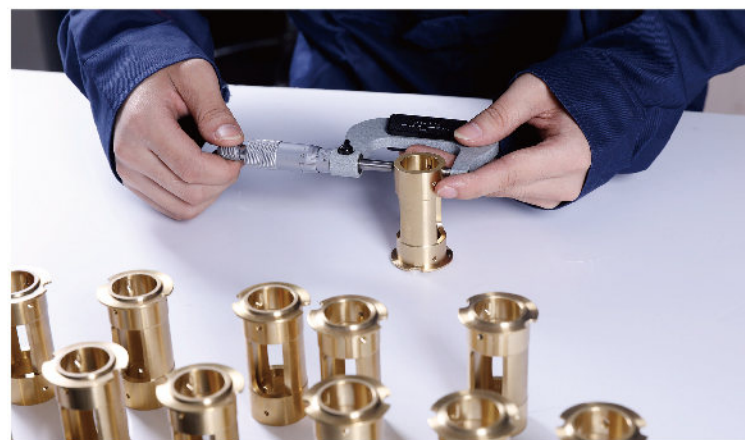


TURBOCHARGER LIFECYCLE CARE

Maintenance | Repair | Overhaul
Troubleshooting | Parts | Service

The Complete Solution

At TDE we offer a unique total solution to our customers by complementing our turbocharger inventory and service provision by additionally offering our customers a substantial range of 4 stroke & 2 stroke engine parts from stock, further complemented by our overhaul & reconditioning services.



Precision & Quality

Quality is at the forefront of our business and as such is woven into every aspect of what we do, beginning at our specialist manufacturing partners, right through to final delivery by our specialist logistics team.

Incoming and outgoing, each individual machined part is subject to stringent 100% quality control measures, key components are subject to monitoring at every stage of the production process before delivery to our warehouse.

In-house Quality Control & Pre-assembly Process

TDE's unique in-house Total Quality Assurance program is the key to our success since the establishment of the company. Our QC measures on parts includes the material lab test & analysis, spectroscopy analysis, 3D scanning measurement, geometric tolerance, hardness, roughness, NDT detection, especially our pre-assembly test process has made TDE a precision quality performer in the industry.

Items assembled in our workshop such as complete turbo, cartridge, rotor shaft assemblies are rigorously inspected, then pre-assembled on a test unit to ensure tolerances are within limits prior to shipment, these rigorous processes are the center of our comprehensive warranty, component S/N and documentation traceability is established through our DNV-GL ISO9001 quality assurance system at our Shanghai hub.

We do not just promise quality, we deliver and guarantee it.



TURBOCHARGER PARTS STOCK



Compatible Spare Parts Suitable for:

TURBOCHARGER			TURBOCHARGER		
ABB	VTR0/1	160/161, 200/201, 250/251, 320/321, 400/401, 500/501, 630/631	MAN	NA	40, 48, 57, 70 40/T, 48/T, 57/T, 70/T 34/S, 40/S, 48/S
	VTR .. 4	184, 214, 254, 304, 354, 454, 564, 714		NR	15, 20 15/R, 20/R, 24/R, 26/R 12/S, 14/S, 17/S, 20/S, 24/S, 26/S, 29/S, 34/S
	VTR .. 4P/D/E	214, 254, 304, 354, 454, 564, 714		TCA	44, 55, 66, 77, 88
	VTC .. 4(P)	214, 254, 304		TCR	12, 14, 16, 18, 20, 22
	RR	150, 180, 212, 151, 181, 221, 153	IHI	RU RH .. (-Y) AT	110, 120 133, 143, 163, 183, 203, 223 14
	TPL-A/B/C	65, 67, 69, 71, 73, 76, 77, 80, 85		R HPR ST	3-2, 4-2, 4-3, 5-3 3000, 4000, 5000, 6000 3, 4, 5, 6
	TPS	D/E/F/DV/EV/H 48, 50, 52, 57, 61	KBB		
	A100-M/H	130,135, 140, 145, 145, 150, 155, 175			
MITSUBISHI	MET	SB / SC / SD / SE / SEII / MA / MB 33, 42, 53, 66, 71 , 83 SR, SRC 18, 22, 26, 30, 37	NAPIER		
			NA-5	295, 355	
			NA-7	297, 357, 397, 457	

It is neither claimed nor implied that Turbo Diesel Engineering represent the original maker of the products mentioned in this brochure or that the products offered are genuine, unless specified in our quotation.

New & Remanufactured

- Turbocharger complete unit , Cartridge assy
- Bearing, Oil pump, Seals, Service Kits
- Rotor shaft assy, Compressor wheel, Turbine blades
- Bearing casing, Turbine casing, Gas inlet & outlet casing
- Compressor casing, Air inlet & outlet casing
- Nozzle ring, Shroud ring & Fasteners
- Diffuser, Wall insert, Silencer,
- Speed sensor, Special tools

Genuine turbocharger:
Complete new units & components



TURBOCHARGER LIFECYCLE CARE

Maintenance | Repair | Overhaul
Troubleshooting | Breakdown Service

Anywhere

Houston - North/Central/South America, Caribbean
Shanghai - Asia, Far East, Middle East
Rotterdam - Europe, Africa
Worldwide

Dry-dock Service

Main engine & Auxilliary engine Turbochargers
Major Overhaul during your ship dry docking
Shipyards in China, Singapore, Turkey, USA and Europe

Anytime

24/7/365 Non-stop round-the-clock response
from 3 strategic locations

High Availability of factory-trained turbo service
specialists to attend field and work- shop service

High Availability of parts stock, and complete
exchange units / cartridge / rotor assembly/nozzle
ring

Any Brand/Model/Size

ABB	MAN
IHI	Mitsubishi
KBB	Napier



Field & Shop Service

Turbocharger routine overhaul
Rotor shaft overhaul & Laser cladding repair
Turbine wheel, Blades welding & repair
Reblading
Dynamic balancing
NDT crack detection
Hardness test
Thickness gauging

Breakdown service & Trouble-shooting

Breakdown, Surging, Vibration, Performance issues

Workshops

State-of-the-art workshops located in
Houston, Shanghai, and Rotterdam

Fully equipped turbocharger shops with the
latest Schenck balancing, Micro-balancing
machines, Sand-blasters, Ultrasonic cleaning,
welding machines, and lathe machines

Fleetwide agreement & Exchange program

AE Turbocharger: Turbocharger complete unit,
Cartridge assembly, Rotor shaft assembly

ME Turbocharger: Cartridge assembly, Rotor
shaft assembly, Nozzle ring, Shroud ring
Cost-effective solution to save down-time
and eliminate failures

DIESEL ENGINE
PARTS & SERVICE



Spare Parts Supply from OEM/Licensee Compatible for:

2-STROKE ENGINE			
MAN	MC/MC-C	L S	26, 35, 42, 45, 46, 50, 60, 70, 80, 90
	ME-B/ME-C	S G	40, 45, 46,50, 60, 65, 70, 80, 90
Wartsila	RT		38, 48, 52, 58, 62, 68, 72, 76, 84, 96 (U/T/TB/C)
	RT-flex		48, 50, 58,60,68, 82, 96
	X		52, 72
Mitsubishi	UEC-LSII		50, 60
4-STROKE ENGINE			
MAN	L		16/24, 21/31, 23/30 (H), 27/38, 28/32(H), 32/40
	V		
Daihatsu	DK		20, 26, 28
	DC		17, 32
	DE		18
Yanmar	N		18L, 21L
	EY		18L
Hyundai	HIMSEN	H	17/28, 21/32, 25/33, 32/40
Wartsila	Vasa		R+V32, R+V46
			L20
Major components			Consumable parts
Sensors & Instrument			Air-Starter (Ingersoll-Rand & TDI)
Governor			Heat-Exchanger

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Overhaul, Service & Reconditioning

On-board Service

Riding Team Overhaul & Service on-board
Overhaul, Service & Reconditioning during
dry-docking

Workshop Service & Reconditioning

Cylinder cover, Piston crown, Valve spindle,
Valve seat, Fuel injection, Cylinder liner,
Connecting rod