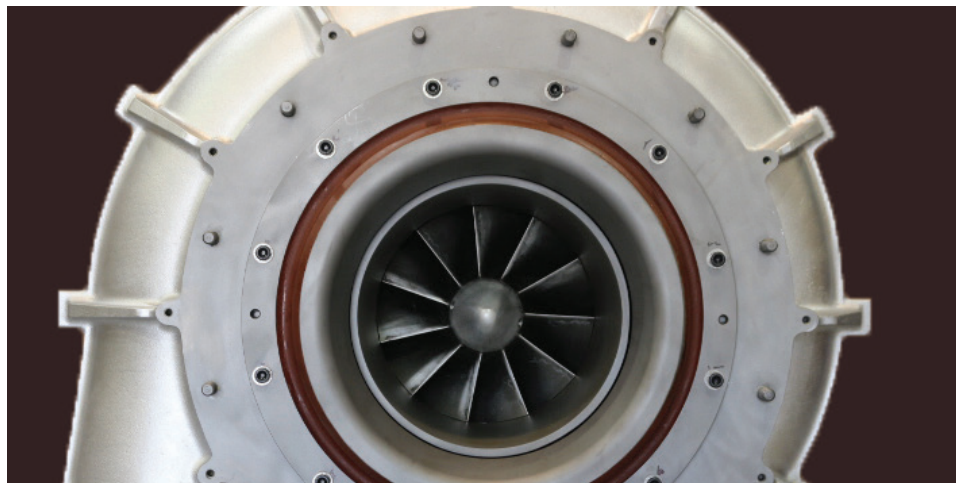


TURBO REBUILD SERVICE

Resource  
Power Group



## Why choose RPG over your local turbo repair shop?

A repair from RPG guarantees your turbo is repaired to run at peak performance. Often after customers choose a “fly ash and balance” or “clean and balance” repair, the turbo does not run to factory specifications. Poor turbo performance can result in poor engine performance causing:

- High exhaust temperatures
- High fuel consumption
- Emissions out of specification
- Loss of power



## Why risk poor engine performance after a large engine rebuild when poor turbo performance may be the cause?

Our technicians are well trained in high-horsepower medium speed engine repair and have years of experience specifically in the large turbo repair business. We are also an authorized Napier turbo and Mitsubishi turbo repair center. We can analyze your core turbocharger components to determine if OEM parts have been used in previous repairs. RPG keeps a stock of parts used for the most common Napier, ABB, KBB, and MET turbos used on large Cat, MaK and EMD engines so your repair should never wait on factory parts shipments. We even stock exchange turbos for certain common models.

A complete Shop Evaluation Report is completed for every repair. This includes:

1. Photos before and after reconditioning and reassembly of every major component
2. Serial numbers for key components
3. Type, specification, location (if provided), and hours (if provided)
4. Complete list of measurements before and after
5. Summary of wear on surfaces
6. Recommendations to restore turbocharger to peak performance
7. Quotation for cost of recommended repairs

Once a repair has been performed by RPG, the work order history is saved for future reference. Most turbochargers have a life of 2 or 3 repairs plus 4 to 6 overhauls. The history of the repair for each turbo can help us advise you of your most cost-effective option for best engine performance.



## Resource Power Group – Turbo Repair Options

Standard Overhaul Program – The customer sends the complete turbocharger to an RPG shop for overhaul or repair. The scope of work below is our “Standard Overhaul.” A “Standard Overhaul” does not include the replacement of any components. The customer pays for the overhaul and receives a Shop Evaluation Report and quotation for additional work if recommended.

### Turbocharger Types and Scope of Repair

- Napier • ABB • KBB • MET “Mitsubishi”
1. Measure the initial clearances
  2. Dismantle the turbocharger and remove the cartridge
  3. Clean and inspect each turbocharger component
  4. Perform hardness test of compressor wheel
  5. Perform crack test of shaft and turbine blades
  6. Static/coupling balance of bladed shaft
  7. Dynamic balance of rotor assembly
  8. Assemble turbochargers with new OEM maintenance kit
  9. Final measurements of clearances
  10. Provide the Service and Balance Report to the customer

### Standard Overhaul Process

- Overhaul scheduled – estimate approved – parts are confirmed in stock
- Turbo shipped to RPG (we can arrange for all transport/handling costs at +10%)
- RPG performs scope of work at left
- If we find need for additional work, our quote is updated to include “out of scope” recommendations. Out of scope could include: renewal or repair of major components such as compressor wheel, turbine blades, impeller, diffuser, shafts, and/or bearing house, etc.
- Turbo is returned and invoiced as approved per quote or revised quote. Final evaluation completed, service & balance report is e-mailed
- In some cases we offer a turbo exchange

### Compare Your Turbo Repair Provider

	RPG Turbo Repair	Other Turbo Repair
Guaranteed Use of OEM Repair Parts	Yes	?
Typical Turnaround Time (excluding shipping)		
Standard Overhaul	3 Days at Regular Hours	Up to 4 Weeks Depending on Parts
Standard with Additional Repairs	1 Week at Most	
6 Convenient Locations	Houston, Miami, New Orleans, Mexico, Panama and Dominican Republic	?
Shop Evaluation with Before/After Photos	Yes + Complete Report	?
Maintain Complete Turbo Repair History by S/N	Yes + Components/Services; All Before and After Measurements	?
Services		
Specialized Services	Recondition Blades; Metalize Shaft	?
Evaluation Services	Hardness Test; Bearing Tolerances; Confirm OEM Parts Used	?
Napier Authorized Service Center	Yes	?
Parent Company Expertise	Cat Dealer Since 1933; GL Certified Platinum - Marine Service	?
Warranty		
Reconditioned Parts and Labor	6 Months	?
New Parts	1 Year	?

## About RPG

Resource Power Group (RPG) is the trade name for Louisiana Machinery Company LLC's large, medium speed engine business. The company was established in 1933 and is a privately-owned business approaching \$1 Billion in annual revenues. RPG is an authorized distributor for EMD and MaK engines, for Mitsubishi and Napier turbochargers, and for Heinzmann and Regulateurs Europa governors and Noris controls.

RPG, with offices in Houston, Miami, New Orleans, Ciudad del Carmen (Mexico), and Panama City (Panama), focuses on power, marine, gas compression, and industrial applications in the "Middle Americas" including the Southern US, Mexico, Central America, the Northern part of South America and the Caribbean islands.



POWER PRODUCTS



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**RPG**

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