

# Service

DIVISION

repair

S P A R E P A R T S

Westinghouse

field  
service

## A TOTAL REPAIR PACKAGE



Our specialists can repair large motors from any manufacturer. Of course, as the Service Division of TECO-Westinghouse Motor Company, we specialize in Westinghouse large motor repairs.

**Only TECO-Westinghouse Motor Company has this kind of large motor repair capability:**

- ▲ A massive 200-ton crane that lifts machinery 42-feet high.
- ▲ Air pallets that boast a 675,000 lb. gross load capacity.
- ▲ A 12-foot diameter Vacuum Pressure Impregnation tank. Only TECO-Westinghouse Motor Company impregnates your windings with our exclusive, long-life Thermalastic® Epoxy Insulation system.
- ▲ Lathes that handle up to a 350,000 lb. capacity. Lengths up to 43-feet (center to center) and swing up to 180 inches are no problem.
- ▲ A 120-inch vertical boring mill that is capable of machining the largest frames and brackets.
- ▲ An 8-inch horizontal boring mill that can handle 16-foot vertical movement and 32-foot horizontal movement.
- ▲ An induction brazing table that is 51-inches in diameter.

When a large motor breaks down and halts a critical process in your facility, you may need expert help immediately. That's why TECO-Westinghouse Motor Company's Service Division offers you the most complete large motor service package available.

We offer more than simple repairs of an electric motor. We deliver comprehensive solutions to complex problems. Our state-of-the-art engineering and design facilities, along with 110 years of practical experience in building large motors, will provide you with the most viable service alternative.

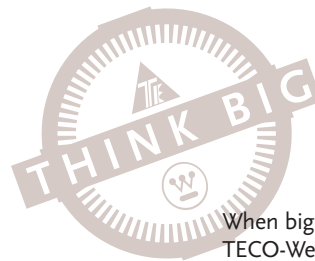
We specialize in large motor repairs. And our repair experts can rush to your site and assist you with on-the-spot inspection, trouble-shooting and minor repairs. If necessary, we will arrange for on-site removal and transportation back to our Round Rock, Texas, headquarters facility. Upon receipt at our 500,000 sq. foot facility, our experienced repair team will immediately swing into action. If needed, we can work around the clock, 24 hours a day, 7 days a week until the job is

done. Our service team will first provide a thorough inspection and analysis of the equipment. After getting to the root of the problem, we can then perform a complete array of repairs. Before shipment, the motor will be thoroughly tested in our state-of-the-art test facility. We can also arrange for on-site installation so you are back up and running as quickly as possible.

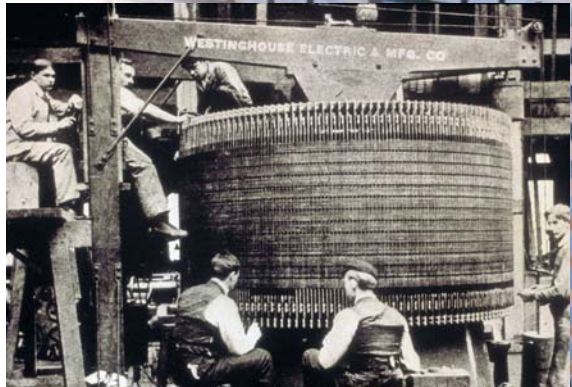
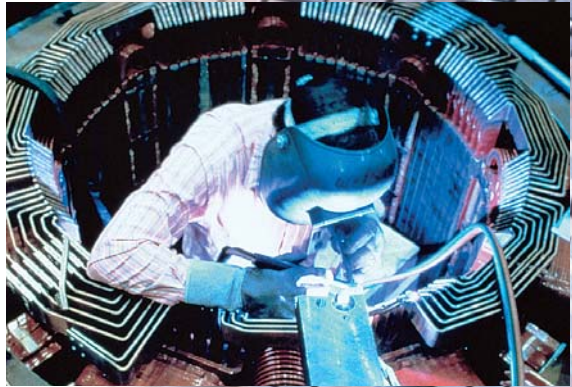
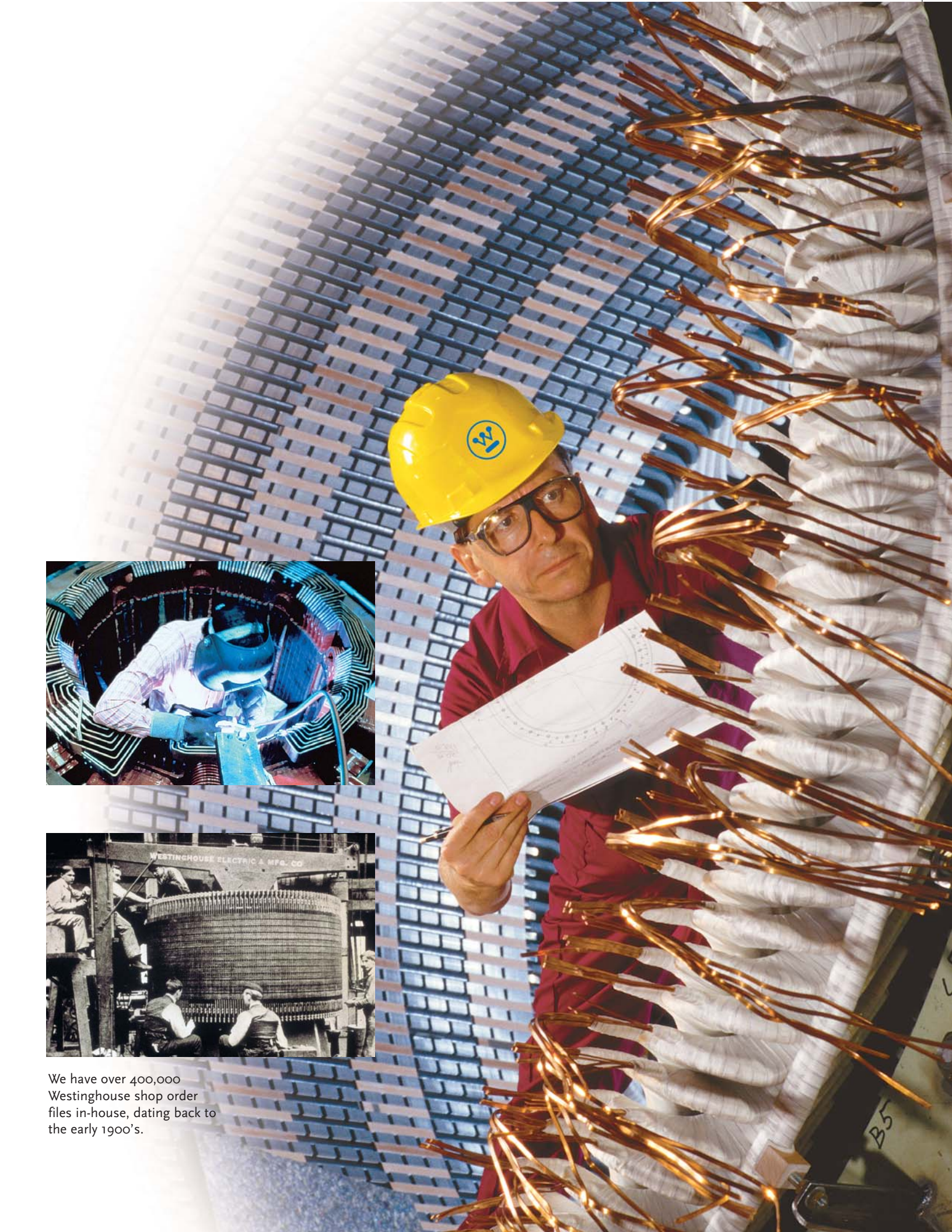
### STATE-OF-THE-ART TESTING

TECO-Westinghouse Motor Company's test facility is specially designed for large motors. After we repair or upgrade your motor, we can offer a complete package of factory testing options that no other repair facility can match:

- ▲ Full voltage, full speed run test up to 13.8 kV, 3600 RPM
- ▲ Heat Run
- ▲ Dual Frequency Load Testing
- ▲ Locked Rotor
- ▲ Sound Level
- ▲ Resonance Vibration Analysis
- ▲ Modal Analysis



When big motors give you big problems, call TECO-Westinghouse Motor Company's Service Division. 888-754-5006



We have over 400,000 Westinghouse shop order files in-house, dating back to the early 1900's.

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## A TECHNOLOGICAL ADVANTAGE

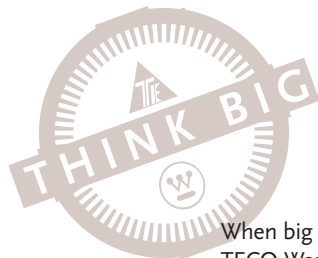
### ENGINEERING SERVICES INCLUDE

- ▲ Preventative Maintenance
- ▲ Predictive Maintenance
- ▲ Testing
- ▲ Commissioning
- ▲ Installation and Removal Assistance
- ▲ Troubleshooting
- ▲ Power Systems Studies
- ▲ Consulting Services
- ▲ Alignments
- ▲ Vibration Analysis
- ▲ Dynamic Balancing
- ▲ On-site Rewinding and Reconditioning
- ▲ Re-designs
- ▲ Turnkey Projects
- ▲ Training

Sometimes plant managers want the maintenance team to do what seems to be impossible. Like move an existing motor to a different area to be coupled with a new pump. No problem, unless the motor is rated at 8,000 HP and the new pump needs a 10,000 HP motor, right?

Well, TECO-Westinghouse Motor Company's Service Division can often make the seemingly impossible, possible. Our design engineers regularly bring in older motors and uprate them. Even better, we can often improve the efficiency ratings at the same time. So you can get a more powerful motor that saves your plant money every day.

With years of practical experience and advanced computer programs that integrate finite element analysis and modal analysis into the decision-making process, our engineers can provide you with unique alternatives not available elsewhere.



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engineer

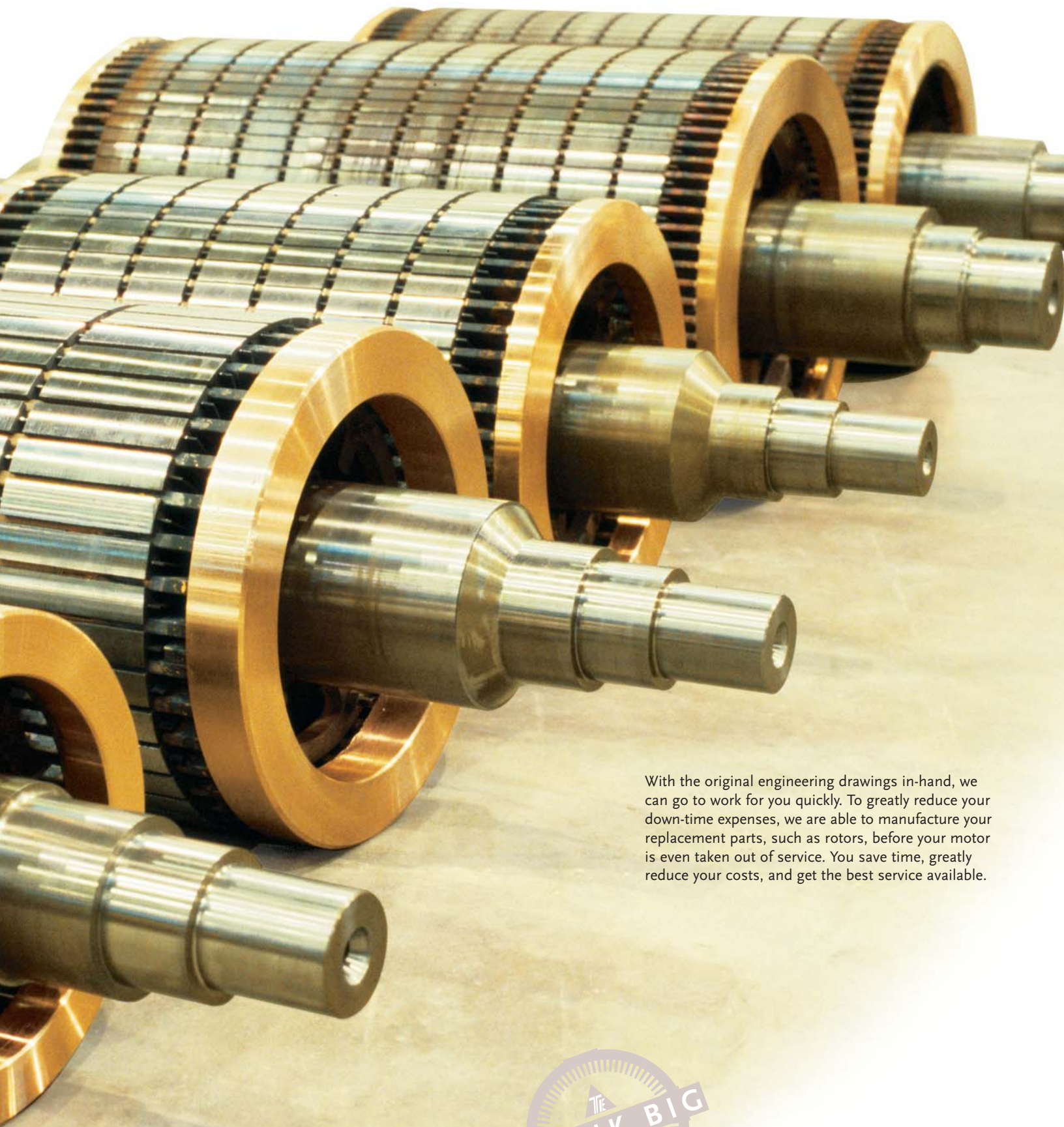
FINITE ELEMENT

3D modeling

ered  
solutions

NT ANALYSIS





With the original engineering drawings in-hand, we can go to work for you quickly. To greatly reduce your down-time expenses, we are able to manufacture your replacement parts, such as rotors, before your motor is even taken out of service. You save time, greatly reduce your costs, and get the best service available.



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## GENUINE WESTINGHOUSE SPARE PARTS

In maintaining your plant at optimum efficiency, you probably have had your share of unexpected surprises. Fortunately, motors will usually not be the source of these surprises. As a rule, when properly maintained, motors provide years of trouble-free service. But there's an exception to every rule. And maybe tomorrow the large motor you're responsible for will break down. If this down-time will cost your facility thousands or even millions of dollars, then it's time for you to buy some critical spare parts. Ask us about our complementary analysis of your motor components. We'll be happy to provide a recommended spare parts list for you. We can even prioritize the items for you.

Remember, if you have a Westinghouse large motor, then we are the right people to call for genuine Westinghouse spare motor parts. With over 400,000 Westinghouse motor shop orders in-house, we can quickly determine what original equipment was included and provide you with the parts that will get you up and running again fast.

Whether you need repair assistance, engineering analysis, or spare parts for your motor, TECO-Westinghouse Motor Company is the most qualified large motor service organization in the world. Contact us for more information: 888-754-5006.

### COMMONLY PURCHASED SPARES ON LARGE WESTINGHOUSE AND TECO-WESTINGHOUSE MOTOR COMPANY PRODUCTS

	Large Induction Motors	Synchronous Motors	DC Motors
Bearings	▲	▲	▲
Oil Rings	▲	▲	▲
Bearing Seals	▲	▲	▲
Bearing Caps	▲	▲	▲
Armature Coils			▲
Stator Coils	▲	▲	
Collectors		▲	
Main Fields/ Field Coils		▲	▲
Rotor Bars	▲		
Commutating Poles/Coils			▲
Resistance Rings	▲		
Complete Stators	▲	▲	
Complete Rotors	▲	▲	
Control Wheel Components		▲	
Brushholders		▲	▲
Brushes		▲	▲
Complete Armatures			▲
Complete Field Frames			▲
Commutators			▲



Our sophisticated split-sleeve bearings are precision crafted of quality materials and engineered for easy inspections and maintenance.



Massive reaction-type brushholders provide optimum commutation in DC applications.



Only TECO-Westinghouse Motor Company impregnates windings with our exclusive Thermalastic® Epoxy Insulation System.



M O T O R C O M P A N Y



Round Rock, Texas

5100 N. IH-35  
Round Rock, Texas 78681  
888-754-5006  
512-218-7654  
512-218-7398 (fax)  
[www.tecowestinghouse.com](http://www.tecowestinghouse.com)  
[service@tecowestinghouse.com](mailto:service@tecowestinghouse.com)