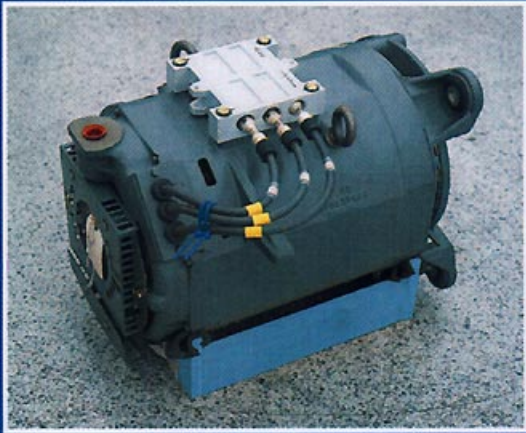
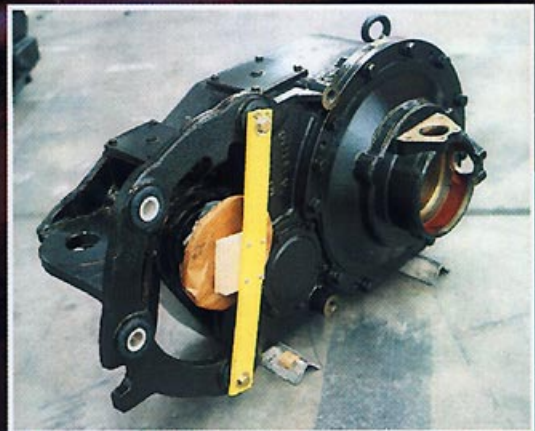


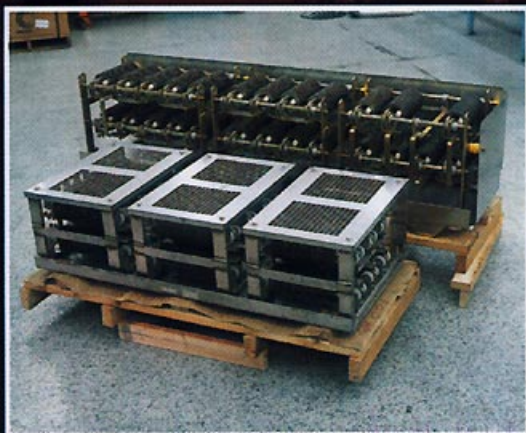
PROPULSION PRODUCTS FOR MASS TRANSIT VEHICLES



TRACTION MOTORS



TRACTION GEAR UNITS

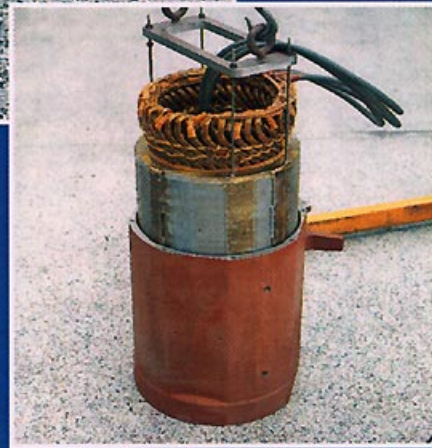
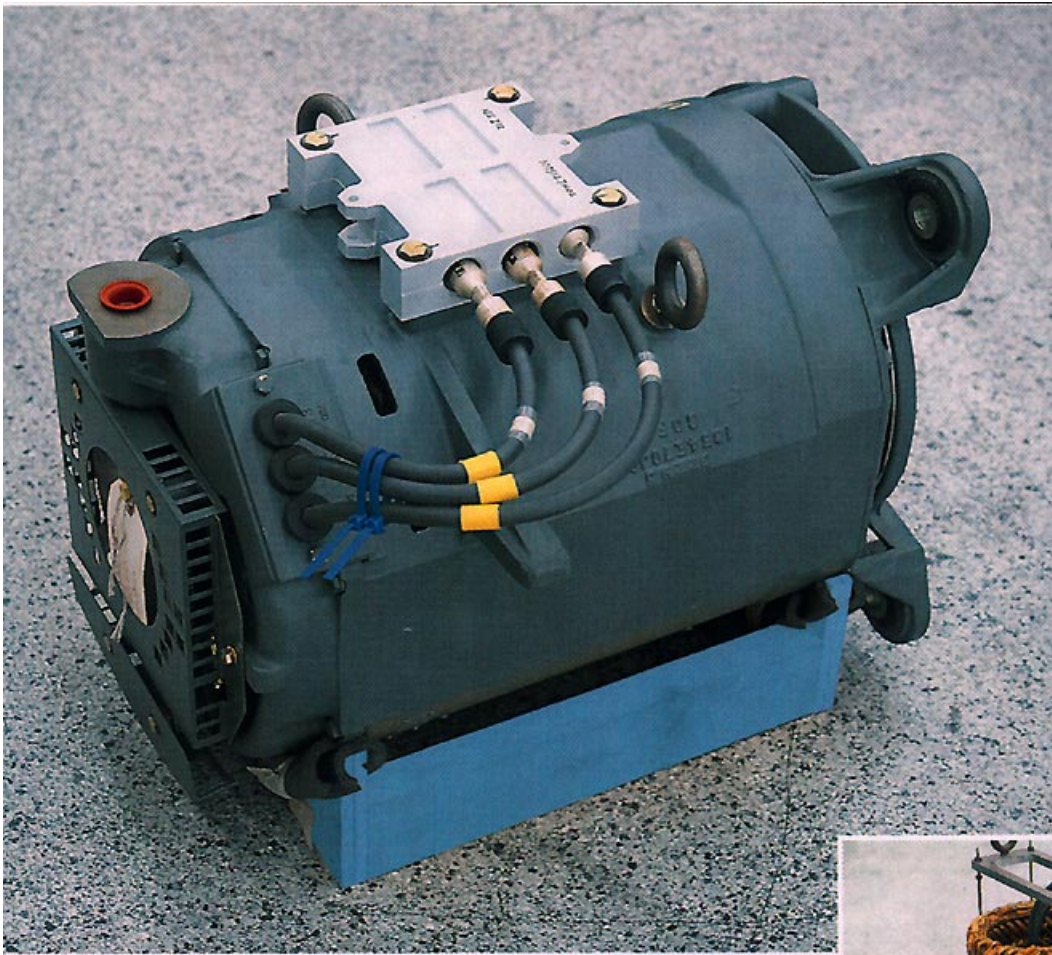


BRAKING RESISTORS

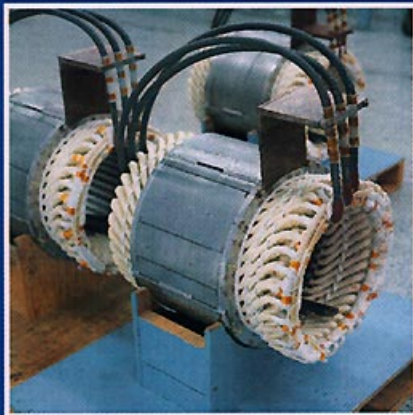

**GUPTA
PERMOLD**
CORPORATION

TRACTION MOTOR

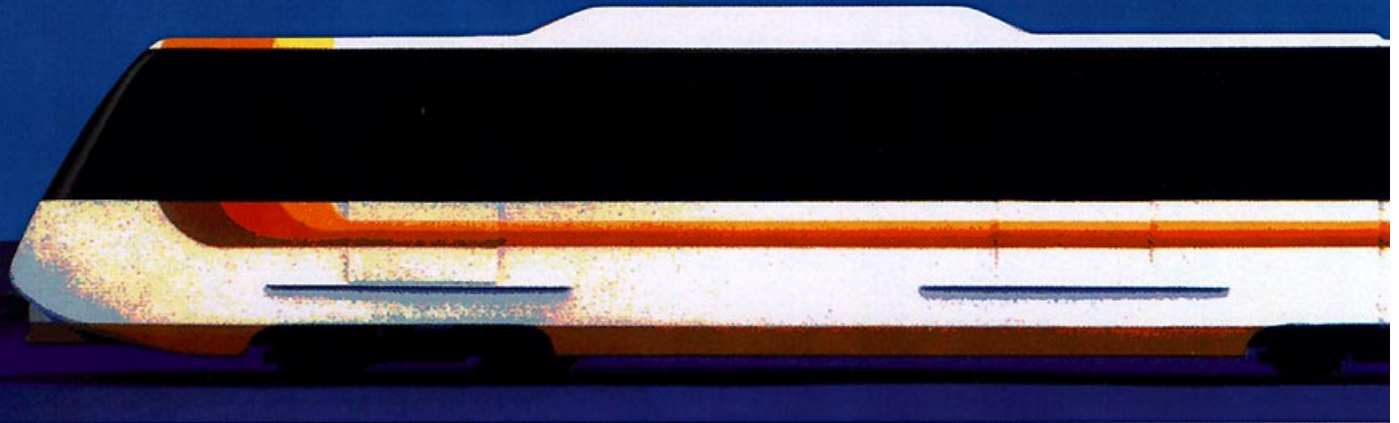
The Traction Motor (rating: over 100 HP) is the heart of the propulsion system driving Mass Transit Vehicles. It must perform under the most rugged conditions. It requires stringent quality controls at every step of its manufacturing. Each and every motor must pass rigorous performance tests.



Fully wound and tested Stator Core ready for impregnation. It is produced in a "CLEAN ROOM."

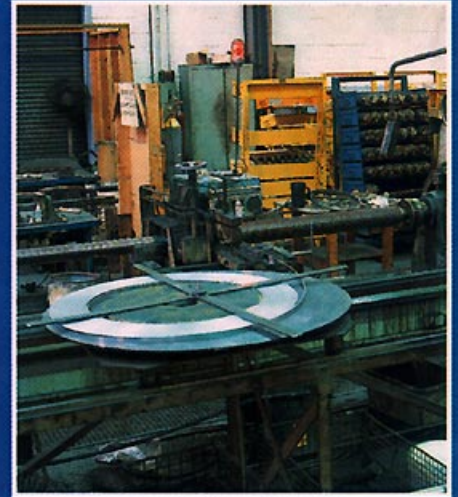


Wound and impregnated Stator being installed into a motor frame.





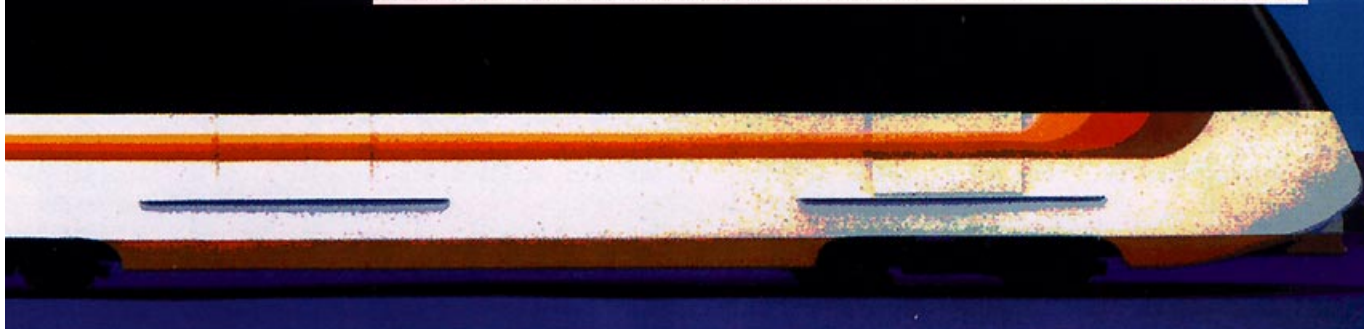
Fully assembled Resistor Banks ready for installation onto mounting rail.

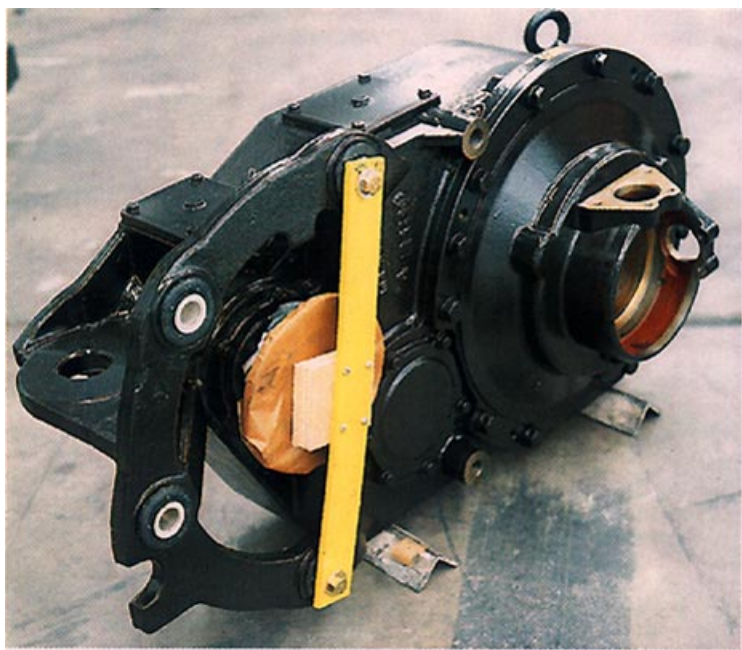


Edge Winding of resistor wire up to a thickness of 0.25".

BRAKING RESISTORS

The Dynamic Braking System is an integral part of the propulsion system of Mass Transit Vehicles, responsible for stopping a vehicle quickly without "jerking," thereby assuring passenger safety and convenience.





The Traction Gear Unit is the key part of the propulsion system of Mass Transit Vehicles, transmitting power from the motor to the axle of the vehicle. Power transmission must be smooth at all speeds of the vehicle. Ultra precision and complex measurement are provided by a computer (Cordax) in its manufacturing.

TRACTION GEAR UNIT

These Traction Gear Components are fully inspected using a Cordax (Computerized Dimension Measuring) machine.

These Traction Gears are performance tested 100% for temperature rise, vibration, noise and high speed.



COMPANY HISTORY

Established in 1980, Gupta Permold Corporation is a world-class manufacturer of propulsion products for Mass Transit Vehicles including:

- Traction Motors
- Traction Gear Units
- Braking Resistors

The Company also specializes in "rebuilding" used or worn-out propulsion products. It has two plant locations:

- Pittsburgh, Pennsylvania—Headquarters
- San Francisco Bay Area, California

The headquarters and manufacturing facilities are spread on a 60-acre site in the heart of Pennsylvania's industrial and high tech centers. All manufacturing facilities boast modern equipment and machinery and are environmentally friendly. The crown jewel of the Company is Human Resources—highly skilled and experienced.

QUALITY ASSURANCE

Gupta Permold maintains process control of all manufacturing operations to ensure the highest quality product. Operators receive detailed production procedures tailored to each job and ongoing video education to satisfy Gupta's stringent quality assurance program. With computerized calibration control of all inspection tools and instruments, Gupta can deliver greater accuracy and reach its goal of zero defects.

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