

Powered Casters

Nova-Tech Engineering's modular powered caster designs lend themselves to reapplication, saving our customers time and money. With over 30 years of design and fabrication experience, Nova-Tech can engineer a custom solution to meet most any need.

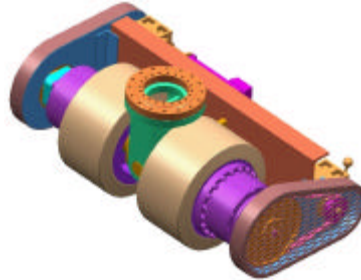
Applications

- Moving Assembly Lines:** Tugs and transporters
- Part Movement:** Transport of parts, tools and containers
- Ground Support:** Equipment and test carts



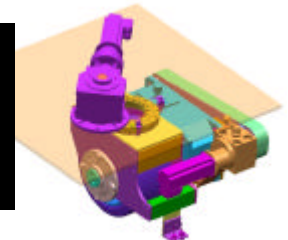
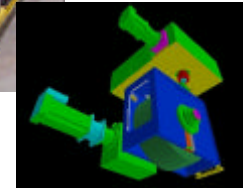
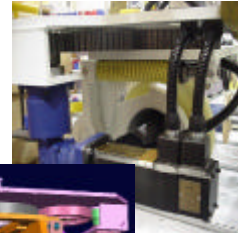
Representative Specifications

- Powered Speeds:** 0 to 250 feet per minute
- Loads:** Up to 60,000 pound per caster
- Draw Bar Pull:** Up to 16,000 pounds per caster
- Suspension Travel:** Up to 12 inches
- Braking:** Failsafe, dynamic
- Environment Constraints:** Class I, Div I, Explosion proof
- User Controls:** Tethered umbilical pendant, RF pendant, fixed operator panel
- Coordinated Steering:** PLC controlled, steer in any direction
- Suspensions:** Steel spring, elastomer spring, pneumatic or hydraulic damper, up to 12" of travel, kneel-down capability



Power and Steering Drives

- Electric:** AC and DC, brush and brushless for drives and steering
- Hydraulic:** Drives and steering
- Pneumatic:** Drives and steering
- Transmissions:** Geared, chain, belt, planetary, differential, single and multi-speed transmissions
- Power Source:** Battery power packs, umbilical, LP gas internal combustion engine, compressed air
- Manual Disconnect:** Allows vehicle to be towed



Guidance

- Tape:** Easily changed magnetic guide tape on floor
- Wire:** Floor embedded guide wires
- Photogrammetry:** Video photogrammetry system
- Contact Feeler:** Caster follows mechanical reference surface
- Laser:** External laser tracker for positional inputs

