

*custom chassis*  
**vocational truck**  
*construction/industrial aerospace*  
**drilling**



**INDUSTRIAL AND SPECIALTY TRANSMISSION EXPERTS**



## **A DRIVING FORCE FOR MORE THAN A CENTURY.**

The birth of America's automotive industry also marked the beginning of Cotta Transmission Company. While Henry Ford's innovative, moving automobile assembly line was revolutionizing manufacturing methods in 1906, engineer Charles Cotta introduced his own breakthrough: the constant-mesh shifting transmission.

Early on, Cotta supplied the emerging automobile and truck industries with main transmissions. In the '40s, Cotta began a shift to industrial products, off-highway and construction vehicle markets. In the mid '60s, Cotta added a line of high-speed gearboxes (the now well-known "SN" line). Over the years, Cotta diversified into various products including hydraulic pumps and coal augers.

Today, Cotta is a trusted, leading manufacturer of top-quality, precision-engineered transmissions for a wide range of specialized mobile and stationary applications: vocational trucks, defense, off-highway, aerospace, heavy industry, well-drilling, mining, marine and more. Cotta's experienced engineers can take virtually any transmission application from concept to delivery at our production facilities in Beloit, Wisconsin.



# Construction/Industrial drilling



## **POWERED BY CUSTOM ENGINEERING EXPERTISE.**

Original equipment manufacturers look to Cotta for innovative, new transmission designs, as well as standard and modified-standard products. Our engineering staff employs state-of-the-art design software tools to deliver products that meet the most demanding specifications. OEM customers have come to rely on the Cotta design and manufacturing team for a wide range of precision-engineered products, including:

- Speed Increaseers and Speed Reducers
- Transfer Cases
- Split-Shaft Power Take-Offs
- High-Speed Transmissions
- Heavy-Duty Pump Drives
- Top Heads
- Reversing Gearboxes
- Creep Drives
- Right-Angle Drives
- One-of-a-Kind Customer-Specified Transmissions

Our engineers and designers work with customers to develop solutions and then deliver drawings in virtually any CAD format to drop into the customer's own design.



# custom vocational truck



## COTTA'S COMPREHENSIVE DESIGN CAPABILITIES.

Cotta responds to our customers' demands with advanced design capabilities, such as rotor dynamics and Finite Element Analysis (FEA).

Cotta is one of the truly "complete" transmission suppliers. With 5000+ designs to our credit, Cotta combines past experience with forward thinking to provide the exact products our customers require. From concept to final design, build and test, Cotta supplies the complete package.



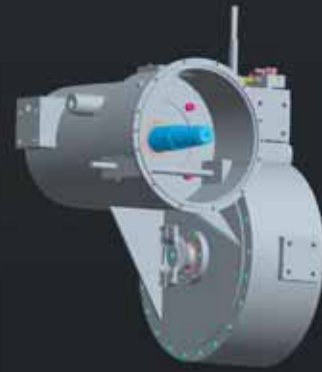
### DIRECT- OR REMOTE-MOUNT TRANSFER CASES

- Single- or dual-speed
- Capacity up to 1,000 horsepower
- Front- and rear mounted disconnects
- Multiple shifting options
- Extensive PTO and accessory drive options



### SPLIT-SHAFT POWER TAKE-OFFS

- Multiple shifting options
- Extensive PTO and accessory drive options
- Ground helical gears for higher load capacity and quiet operation
- Multitude of gear ratios
- Available with or without lube pumps



### CUSTOM TRANSMISSIONS AND GEAR DRIVES

- Planetary drives
- Right-angle drives
- Top-head or top-mast drives
- Multiple-speed transmissions
- Turbine reduction drives
- Heavy-duty pump drives
- Compound gearboxes

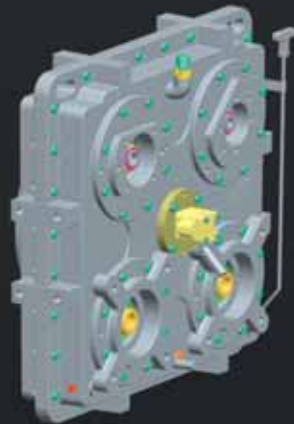


# Vocational truck custom chassis construction/industrial aerospace drilling



## SPEED REDUCERS AND SPEED INCREASERS

- Direct engine or independent mount
- Ground helical gears
- Class 30 gray or ductile-iron cast housings
- Torsional couplings
- Over-center or hydraulic clutch
- Rubber block drives
- Capacities to 2,500 horsepower
- Multiple ratios to as high as 7:1
- Standard SAE flywheel housings



## HEAVY-DUTY PUMP DRIVES

- Standard and custom design
- Capacities in excess of 3,500 horsepower
- SAE, DIN or customer-specified output
- Up to 12 outputs per drive unit



## HIGH-SPEED TRANSMISSIONS

- Up to 5,000 horsepower
- Output capacity of up to 80,000 RPM
- Various aerospace, automotive or industrial testing applications
- Available as a speed reducer or speed increaser
- Designed with single or multiple outputs
- Hybrid coaxial outputs

## A WIDE RANGE OF APPLICATIONS.

Cotta products support an array of industries where demanding performance is required, under extreme conditions and in the most challenging environments.

### VOCATIONAL TRUCK / CUSTOM CHASSIS

Hydro excavators, vacuum trucks, high-pressure paint-stripe removal, auger drilling, cement trucks, snow blowers, tank haulers, road / rail trucks

### DRILLING

Water, oil, gas wells, compression drilling, rock drilling, mud pumps

### HIGH-SPEED TESTING

Test stand applications for aviation, automotive and all types of components

### OIL FIELD SERVICE RIGS / SPECIALTY TRUCKS

Coil tubing trucks, nitrogen pumpers, cementers, blenders, frac rigs, mud pumps

### CONSTRUCTION / MINING / INDUSTRIAL

Tub grinders, shredders, plastic extruders, water pumps, fire pumps, conveyors, rock crushers, pavers, high-wall mining, blast-hole drill, mining shovels, haul trucks





## MANUFACTURING GEARED FOR QUALITY.

At Cotta's 70,000-square-foot facility, capability, efficiency and process flow come together to ensure the delivery of our most important product: quality. Cotta ascribes to ISO 9001 Standards, and designs in accordance with American Gear Manufacturers Association standards. Lean Manufacturing is the rule; 5S techniques employed in all departments improve standardization in the production process. Cotta's adherence to a rigid Supplier Certification and Selection program ensures constant control on material quality.

Quality assurance is monitored systematically and comprehensively. First-piece inspection is conducted on every machining sequence, focusing on quality at the source to support our "zero-defect" policy. Cotta assembles and tests every transmission we ship — 100%. All products are backed by the best standard warranty in the business, and Extended Warranty packages are available.



## UNPARALLELED CUSTOMER SERVICE.

Beyond our engineering expertise and manufacturing capabilities, Cotta customers benefit from our strong service focus. Support after the sale drives many of our long-standing relationships. Count on Cotta for:

### EXPEDITED PARTS SERVICE

We maintain an extensive inventory of standard service parts. Non-stock parts are made to order in our factory. In addition, we offer an expedited processing service which reduces your lead time by "hand carrying" the order through the necessary steps.

### REPAIR / REBUILD

We offer expert remanufacturing and repair of your Cotta transmission. Our repair and build service begins with a thorough inspection and cleaning. After evaluation, only genuine Cotta OEM parts are used for replacements during assembly. Your finished transmission is then carefully tested to new manufacturing specification standards, and it's backed by our full factory warranty.

### ON-TIME DELIVERY

Beyond our focus on meeting production deadlines, Cotta can conform to your most demanding delivery requirements ... consignment or J.I.T. Let us know your requirements and we'll deliver.

### TECH SUPPORT

Tech support is just a phone call or e-mail away. Technical documents can be e-mailed or faxed to any corner of the globe. Field service and training is available from factory reps.





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