

Tribol GR 100-0 PD Success in Fanuc Robots

AUTOMOTIVE (USA)

WELDING & ASSEMBLY ROBOTS

Castrol Tribol® GR 100-0 PD grease*

ANNUAL SAVINGS: \$9,555

THE SITUATION

A large automotive supplier of axles was using an expensive grease from Japan for Fanuc robot axis gear lubrication. In addition to the high cost, the delivery time from overseas was extremely long and often disrupted their re-lubrication schedule.

As a supplier of other fluids in the facility, Castrol was asked for a suitable replacement.

BEFORE

- Grease from company K with very high price
- Delivery lead time: **6-8 weeks**
- Grease contains **barium, an EPA regulated heavy metal**

AFTER

- Tribol GR 100-0 PD price is **\$273 per pail lower** (35 pails/yr)
- Delivery lead time: **3-5 days**
- Grease contains **no barium**

THE SOLUTION

- Based on our past successes with Tribol GR 100 grease in robots, Castrol recommended its use for this customer.
- The robots are lubricated on a rotating basis, with a 3 year interval as recommended by Fanuc.
- The plant's preventive maintenance activities are no longer interrupted by lack of grease due to long delivery times.
- Lower inventory carrying costs are another benefit.



- **Lower price**
- **Better delivery time**
- **Excellent performance**

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RECOMMENDATIONS

Castrol Tribol GR 100-0 PD grease has proven to be an excellent replacement for the company K NLGI 00 grease for plant robot axis gears. The key benefits are quick delivery and low price compared with the typical Japanese greases recommended. Laboratory tests have shown that the previous grease contained barium, an EPA regulated heavy metal. Tribol GR 100 contains no barium, thus eliminating environmental and health concerns.

CONCLUSION

Castrol Tribol GR 100-0 PD provided excellent robot gear lubrication while reducing total cost and significantly lowering delivery times.

The result is an annual savings of \$9,555 in grease alone with additional benefits in smoother maintenance activities.

Grease Conversion Notes

- Tribol GR 100-0 PD and the previous grease were found to be compatible in laboratory testing.
- Castrol's experience with the previous grease suggested that it tended to harden over the 3-year service period, so removal of spent grease was recommended.
- Tribol GR 100-0 PD does not harden over time and thus allows for easier re-lubrication.



OTHER POTENTIAL APPLICATIONS

Castrol Tribol GR 100 series of greases contain the proprietary MFT additive package to improve metal surfaces and greatly extend equipment life. They are suitable for grease applications where lower grease usage and longer component life are desired.

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