

Energy Efficiency Division

Tire Industry

Save energy,
get profit





MEASUREMENT

The **drive system - direct current motor** of a selected plodder was monitored continuously for two months.



DATA ANALYSIS

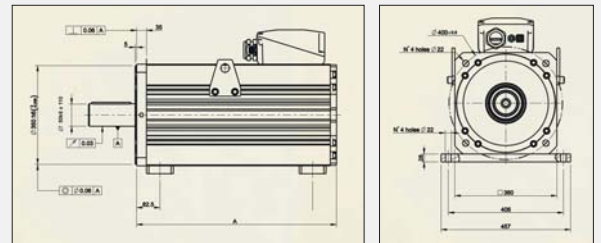
In order to correctly understand the available data, the following indices have been evaluated:

- Comparison between the power absorbed in AC on the electric line side and the one available at the drive start
- Load baseline, with relative load diagram on the application operation
- Requested torque on the motor shaft
- Global system performance



ACTION

It was decided to replace the DC motor with a dedicated **permanent magnet motor**. This solution has allowed to reduce consumption in the face of a performance significant increase and to reduce maintenance time and costs.



MONITORING

The **H-Vision** platform allows, through continuous and real-time monitoring to verify the actual economic and energy savings, taking possibility advantage of preventing anomalies through specific alarms calibrated to the customer's needs.



RESULTS

- Energy saving: **-47%**
- Global system performance increase: **+48%**

PAYBACK PERIOD < 1 Year