

## 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

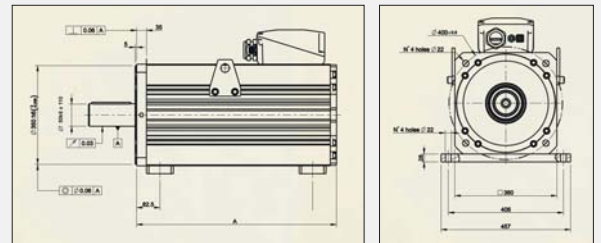
In order to correctly understand the available data, the following indices have been evaluated:

- 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**