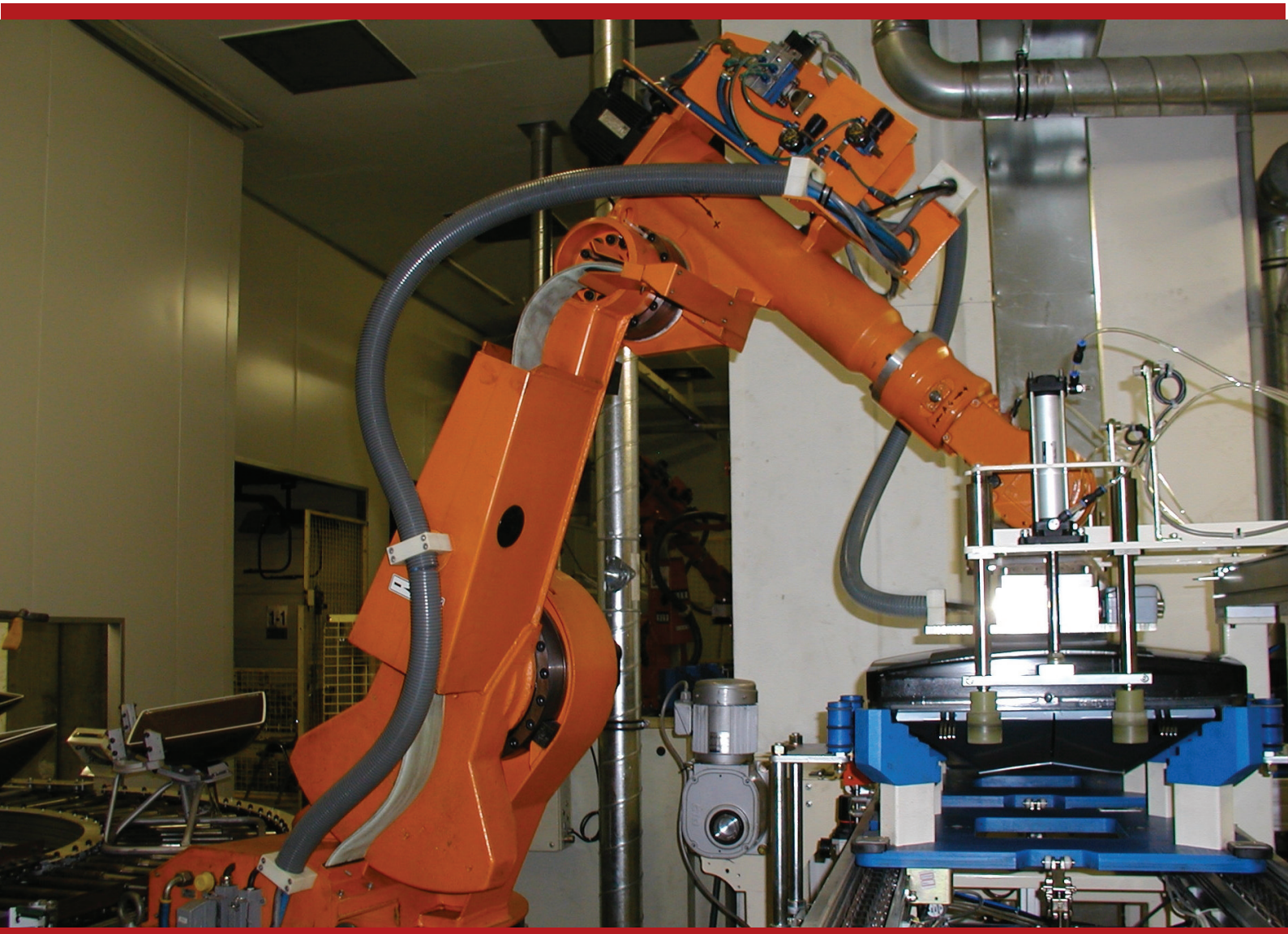
Prosig Case Study

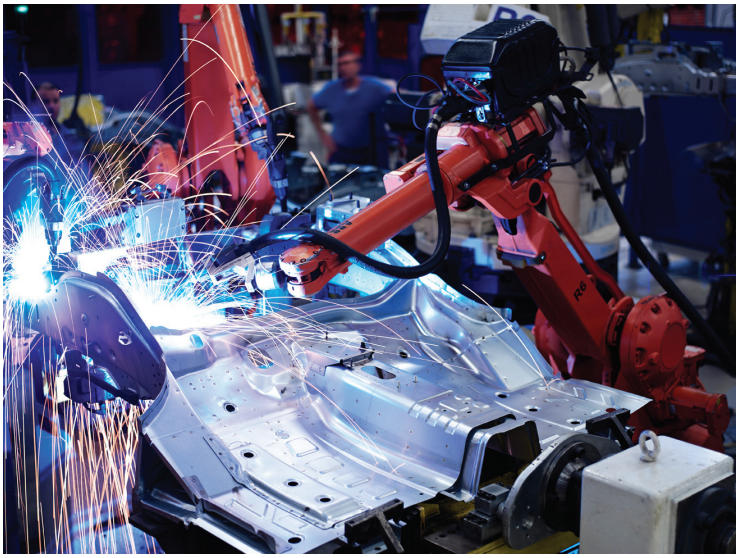
Vibrating Robots



A Prosig system is used to simultaneously capture CAN-bus data and vibration signals on an industrial robot. The robot is controlled by a CAN-bus and the Prosig P8000 measures the relationship between sending commands to the robot and seeing the vibration effects caused by the displacement of the hydraulics. The combination of CAN-bus and vibration measurement make the P8000 an ideal fit for this application.

Vibrating Robots

Often, in real-world applications, several aspects of engineering have to come together. In these situations, it is not always possible to have one simple to use system that can interface with various different devices and bring all the data together in a manageable way.



Prosig worked closely with a production line robot design and manufacturing company to help them measure signals and data from multiple sources. The P8000 hardware is ideal for this type of task because of the wide range of measurement card options.

When the customer first purchased a Prosig system it was simply to measure noise & vibration. Because of the flexible nature of the P8000 they were able to extend the system to add more capabilities. In this case they were able to include CAN-bus data and digital signals along with conventional analogue data.

With CAN-bus based devices becoming faster and faster all the time, it was indeed only a matter of time before the controller of the production line robots was CAN controlled and based.

The user was able to understand and visualise the CAN-bus messages, whilst also monitoring and analysing real world analogue and digital signals all in one simple user interface.

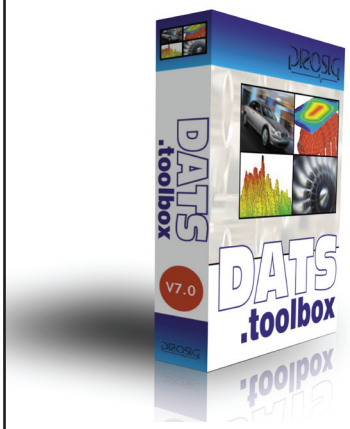
Because the P8000 supports various interfaces, speeds and protocols it greatly assisted the customer in the development of their hydraulic robot production lines.

System consists of

P8012
24-bit data acquisition system

1 x P8012 Chassis
3 x 8402 4ch IEPE, Direct
1 x 8424 Digital I/O
1 x 8440 CAN

DATS
Analysis software



1 x DATS.toolbox software

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