

Technical specification

Minimum system requirements	Functions
<p>CPU: AMD A4 2 GB Ram</p> <p>Hard disk space: 50 MB (SQnet local installation)</p> <p>Operating system: Windows XP or higher</p>	<ul style="list-style-type: none"> • Local database • Network database • Rework\Backup-Module • Work off-line in case of network crash • Global Synchronization • Audit mode with SPC function



Advanced Tightening Solutions for Quality Control & Production

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APPLICATIONS



	Installed on Freedom Multi Station for Rework, for tools backup, for small series productions and as a training station.
	As stand-alone solution on a single station connected to SCS wrenches or most common used DC tools.
	Installed on all stations, to manage the complete assembly process of a production line.

VPG+



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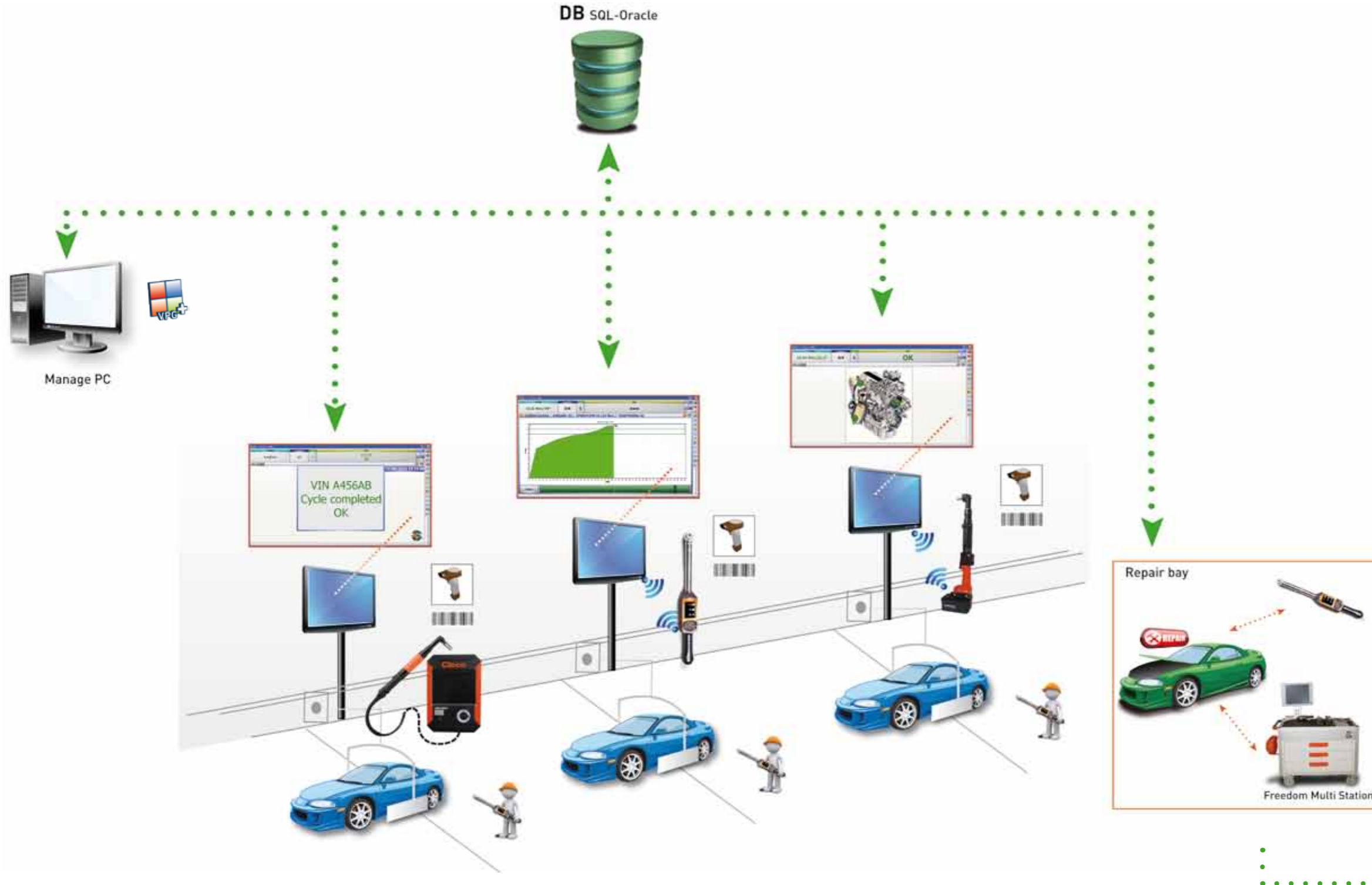
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VPG+ software,
 Guide your production



Visual Production Guide:

VPG+ is designed to assist the operators during the assembly and rework processes. The operators are driven through the different tightening sequences by VPG+. The software selects automatically the correct tightening program and the associated tool for the operation, displays the necessary instructions for the operator and the picture of the operations with their status (to be tightened, OK and NOK). In the rework mode the user can select manually the sequences. VPG+ gives the possibility to check the status and results of all tightening associated to VIN number for every single vehicle\product. VPG+ supports the two most common network databases, Oracle and SQL Server.



Car Registration (customized option)

It's a function of VPG+ which allows to receive the vehicles list and relative attributes from a customer database. Car Registration avoids scanning error and production down time.

Mobile Rework \ Backup Station in one solution:

VPG+ sends in real time all the tightening parameters to the connected tools. This feature, associated to the manual selection, allows to perform rework or backup of tools on thousands operations with a maximum of 6 tools. SCS standard solution for example, provides a rework bench with 3 wrenches and a working range of 3 Nm to 1000 Nm. The mobile solution and the programming flexibility allows to rework any joints which falls within this torque range. Also in this case the Rework or Backup mobile station (Freedom Multi Station) can be synchronized centrally from one PC and can work also off line. This feature is a big advantage for a quick backup or an off-line rework.

Visual Production Guide

The above picture shows the working way of VPG+: Through a special synchronization mode the system is able to work even if the network is not always available. From one PC it is possible to configure the complete production line and to perform the synchronization of unlimited number of stations with a SINGLE CLICK. When the station receives the cycle start, selects and enables the tool to perform the sequence. After each tightening the tool sends back the results to the station. If the network is available the station will send immediately the result to the network database, If the network for any reason is not available, the station will keep locally the results until the network connection is restored. This guarantee no data lost and no production interruptions.

