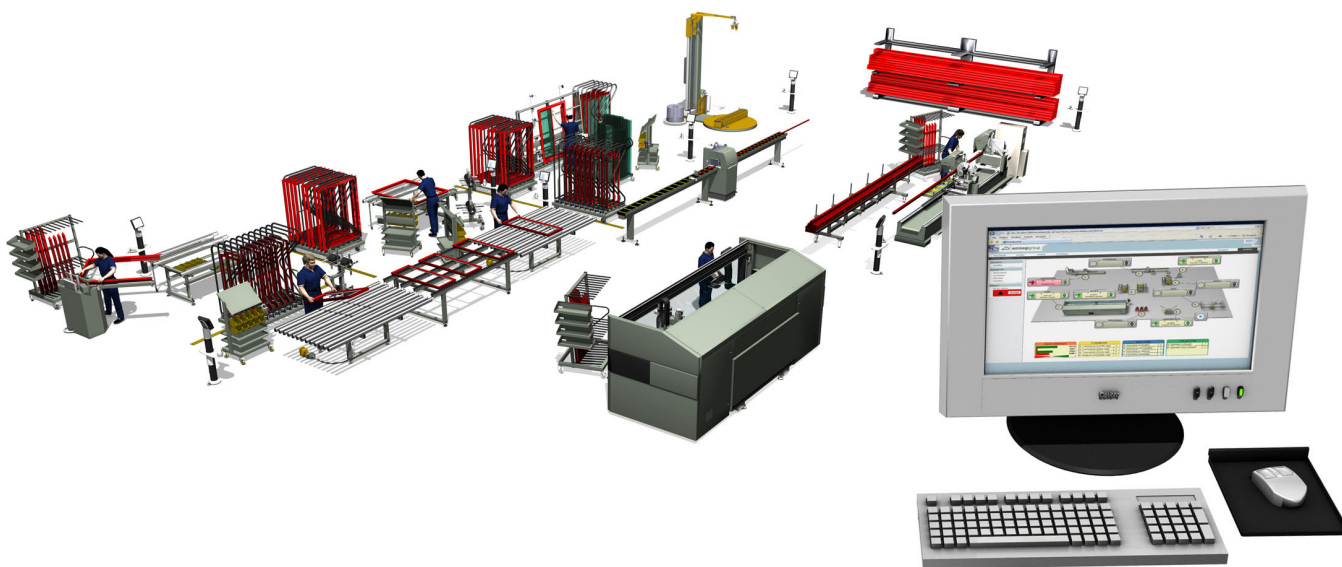


DL NEURAL
DL Technical Solution

DL Point: 01
Recording of shop floor data

Neural Web Portal: 02
modular web interface

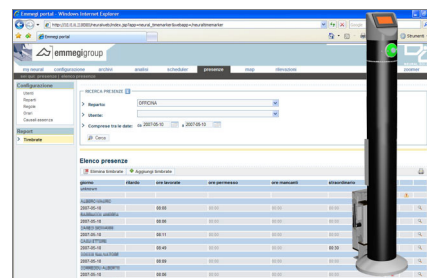
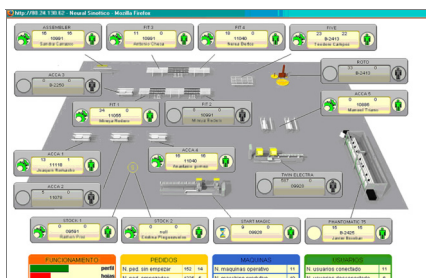
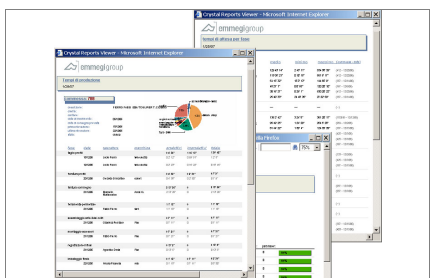


DL Neural is a system based on Hardware and Software technologies, able to monitor the various production events occurring on the shop floor in real time as well as to store such data in historical files. The system collects the events via connection to the operators, manual or N/C machines, assembly stations, workpieces and products, as can be typically found on the shop floor. Thanks to a dedicated server, all the events are collected and made available to the system users, for daily monitoring of the production (job progress) and for statistical analysis of actual figures (Analysis and Zoomer software modules). Furthermore a specific optional hardware/software system (DL Time and Timetrack) Neural allows keeping track and storage of the employees' daily attendance, by recording the daily clocking in/out data on a calendar using for calculating monthly salaries.

Scheduler: 03
virtual secretary

Zoomer: 04
real time control

DL Time - Timetrack: 05
attendance monitoring



DL NEURAL

DL Technical Solutions

01

DL Point

DL Point allows recording the production data (operator, machine, job, time employed) via an electronic interface device (CELL). In the case of Emmegi N/C machines, CELL is incorporated directly in the electrical cabinet; in other cases, it is supplied together with TOTEM POINT, which can be configured for controlling a single, double or multi-user workstation. Operator identification is easy via an electronic key called iBUTTON. The TOTEM POINT is complete with the presence of one or two barcode readers used by the operator for quick, error-free identification of the workpiece. The MULTI-USER version is provided with a 3.5" touch-screen monitor for declaring the start and end of the activity. The interface is guided and instinctive, therefore very user-friendly.

02

Neural Web Portal

NEURAL WEB PORTAL is the interface with which the user, after password-protected authentication, can interact with the system and data collected. It can be used by any company network computer or also externally via a simple Internet connection and web browser. It also includes a module for personal data management and an analysis module that enables browsing the data collected through actual and statistical analytical reports, also via the web. It has a modular structure based on the users' roles so that each user can only access the data authorized for use by the system administrator.

03

Scheduler

SCHEDULER automatically distributes the more meaningful reports to the users concerned. They are sent via E-mail as attachments in PDF.

04


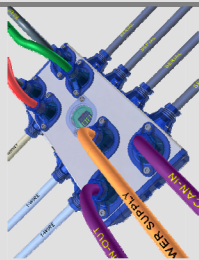

Zoomer

ZOOMER allows real time display of what is happening on the shop floor, as regards machines/work stations, users and workpieces/products. It allows real time analysis of the various performances by using detailed and user-friendly graphics. It also allows alarm management for which a specific display area is dedicated with provision for storing the alarms in historical files; this can be browsed at any moment. The date and time of the event are available for each alarm as well as the name of the person who has acknowledged it.

05

DL Time - Timetrack

DL TIME is a dedicated workstation for tracking attendances. By using the same identification device for accessing the workstations, the operators can log the clocking in / out times in/from the company. The 3.5" display confirms the records of the clocking in/out times and any errors in clocking in/out, missing hours or overtime. TIMETRACK is a software module of NEURAL WEB PORTAL for checking the clocking in / out times of employees and printing of final report for the payslip.

Models	DL POINT					DL TIME
	TOTEM POINT Single iButton	TOTEM POINT Double iButton	TOTEM POINT Multi-user	CELL		
CONFIGURATIONS						
Single IButton Probe	•		•			
Double IButton Probe		•				•
Bar code reader	•	•	•			
Second bar code reader		•				
CELL	•	•	•	•		•
Totem with console	•	•	•			
3" touch-screen graphic monitor			•			•
SOFTWARE						
Neural Operation System				Start / Advanced / Executive		
Neural Web Portal				•		
Analysis module				•		
Scheduler					Optional	
Zoomer					Optional	
Timetrack					Optional	