

Press Release

The popular DCAM with advantageous modular design

Clear-cut cost & fast delivery times due to standardized technology

Utilization of components with communication capabilities

The DCAM (**DEPRAG COMPACT ASSEMBLY MODULE**) was first launched back when mobile phones were still assembled by hand. If your production was faster and more economical you had the upper hand. The DEPRAG assembly platform for industrial production came onto the market and has since become fully established worldwide. The DEPRAG engineers have been continuously improving the well-known work station over the past 25 years. Any customer purchasing the optimized DCAM receives a standardized assembly platform with recognized reliability and high functional safety. By virtue of its modular concept the DCAM is available "off the shelf", making purchasing more easily calculable and with a clearly foreseeable delivery time.

"Up to now each DCAM was basically a custom-made product for each client. It would take a long time from initial consultation to design and manufacture and the high labor costs reflected negatively in investment costs and delivery time", explains Sales Manager Jürgen Hierold. The cry for a DCAM at a fixed price with short delivery time was growing louder as budget pressure was increasing. Modularization was the solution to the problem.

The DCAM is the ideal work station for any application where several processing points must be reached quickly and with precision. It is therefore especially suitable for screw assembly. The feeding of workpieces to be assembled can either be manual – via a sliding carrier or rotary indexing table - or fully automatic using a linear transfer system. As a safety precaution, depending on requirements a sliding door or light curtain is available.



DCAM with light-curtain

Equipped with a modern DEPRAG screwdriving function module including high-quality industrial screwdriver spindles and combined with suitable screw feeding devices, any screwdriving task can be completed to satisfaction using the DCAM. "The modularized assembly platform is particularly qualified as the best system solution for fluctuating production rates, multi-faceted product versions or products with short life-spans. A DCAM incorporates effectivity with the best possible processing reliability. The modular and flexible platform design of this assembly unit in combination with freely programmable X-Y axes can be used for the most varied of assembly tasks", explains Hierold.

The screwdriving process is supported by a user-friendly sequencing controller with a 15" color touchscreen Operator Interface. Like all other DEPRAG PROCESS UNIT modules, the DPU200 is equipped with DCOS (DEPRAG CONTROLLER SYSTEM) software which is available in various standard packages. This controller technology is available in various languages for operations worldwide and contains 199 inputs and outputs. It enables the control of up to three axes as well as various communication modules and a corresponding redundancy concept for all electrical components, thus minimizing breakdowns in production due to controller errors.

The screwdriving function module built into the assembly unit is designed for optimal processing reliability and can be used with all DEPRAG screwdriving tools. This enables seamless recording of data being processed e.g. in combination with an EC screwdriving system. As well as displaying torque and angle values, it can generate status reports concerning screwdriving depth and the screw shots for the subsequent cycle. The integrated web server in the DEPRAG sequencing controller ASTi40 not only allows the monitoring of screwdriving procedures but also simple creation and adjustment of screwdriving programs. Torque, angle, speed, waiting time and rotational direction are freely programmable (within the performance range of each screwdriving spindle) and can be adapted to the specific screwdriving task.



DCAM with rotary index table

The screws needed to assemble the component are reliably and automatically supplied at precise intervals to the screwdriver via a hose which is connected to a communicative screw feeder. The DPU200 is used to effortlessly guide and operate these components. Efficiency and processing reliability in production are therefore guaranteed.

Sale Manager Jürgen Hierold clarifies: "All relevant components come from our own development and production. The complete supply chain is covered by DEPRAG". Even the user-friendly sequencing controller which the operator uses to control the screwdriving process via display monitor originates from these automation engineering experts from Amberg. If a workpiece is assessed as "OK", the status appears on screen on the DPU200 and the screwdriving process is

completed successfully.



DCAM with slide-table

In addition to reliable assembly, the economic efficiency of the assembly system is also a predominant concern for the client. The machine's framework is therefore constructed with torsion-resistant angular sheet metal profile. These powder coated steel frames provide the globally recognized stability and robustness of the platforms. The axes used in the assembly units come from an in-house development: the designers rely on high-quality axis modules made from linear axes with toothed belt drives and on request: a Z-axis with ball screw. Only in this way, the typical requirements for screwdriving assembly such as torque reaction and mass load can be attained. Furthermore, the base frame constitutes an intelligent grid system – the most

ergonomic working height can be set using the handles guaranteeing flexibility.

DEPRAG provides a complete system solution as a one-stop-shop encompassing comprehensive service as well. The established technology works to the customer's advantage as tried and tested standard components are used. "Of course we also continue to manufacture individual tailor-made DCAM assembly units in accordance with the requirements of our clients. In this case the customer receives a special machine, adapted in detail to their specific requirements and naturally more expensive", adds Sales Manager Jürgen Hierold.

Innovation and constant optimization of existing product lines such as the popular and successful DCAM have made the full service provider DEPRAG into a sought-after partner for automation technology. DEPRAG SCHULZ GMBH u. CO. based in Amberg, Germany has over 600 employees in over 50 countries worldwide. In addition to screwdriving technology, the core competencies of the automation specialists are in feeding and measurement technology and we are renowned for our flexibility and top quality service.

If you cannot visit us at a show or in person, please use the following link to read more about this product:

DCAM Catalog [Link](#)

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