



Screwdriving technology

Automation

Air motors

Air tools

DEPRAG

**Standardised
Assembly Systems**

DCAM - XS

DEPRAG COMPACT-ASSEMBLY-MODULE – EXTRA SMALL

The innovative Micro-Assembly-System for economic automated production

The Micro-Assembly-System DCAM-XS fulfils all market requirements for a modern machine. It is extremely small, fast, precise and flexible.

The outstanding characteristics of these flexible assembly systems are the extremely small size and unrivalled short conversion time of the module.

Screwdriving, labelling, palletising, clipping, laser inscribing, welding, testing and gluing of the smallest components – the new assembly machine can carry out numerous functions.

Many small component parts must be assembled when manufacturing a mobile

phone, an electric toothbrush or a razor... the DCAM-XS can be converted in just a few minutes for various assembly steps.

For the first time the feeders or process modules can be exchanged without readjustment of the pick-point. The machine setter simply moves the feeder loading device in the DCAM-XS and connects the energy and signal lines. The feeder is connected easily by hand. However that is not all. The DCAM-XS also guarantees complete traceability of the end product data, as is required in the medical technology and pharmaceutical industries.

Your advantages:

- **COMPACT**
450 x 802 x 680 mm
saves work space
- **PRECISE**
Exact positioning
 $\pm 1 \mu\text{m}$
ensures your quality
- **FLEXIBLE**
unrivalled short conversion time to a different production process or product
your production is flexible
- **FAST**
 $V_{\text{max}} = 3,7 \text{ m/s}$
 $a_{\text{max}} = 90 \text{ m/s}^2$
by linear servo motors
reduces your production times
- **SIMPLE**
easy to operate using intuitive operating guide
accelerates your operation start up and minimises errors



The standard assembly platform is suitable for the most varied of assembly and test tasks.

For production of micro-systems in the electrical industry or medical technology,

for the production of micro-systems in the pharmaceutical and diagnostics industry and for the handling of the smallest connection elements; e.g. for screw assembly of mobile phones.

Whenever parts are so small that automatic handling is necessary.



Technical Data

Type		DCAM-XS (BF) Blow Feed Design	DCAM-XS (BF+) Blow Feed design including preparation for Pick and Place feeder
Consisting of		<ul style="list-style-type: none"> • Process Module • Rotary Indexing Table • E Controller 	<ul style="list-style-type: none"> • Process Module • Rotary Indexing Table • E Controller • Pull out for the Pick and Place feeder
Dimensions (W x H x D)	mm / in.	450 x 680 x 802 / 17.55 x 26.52 x 31.28	450 x 680 x 802 / 17.55 x 26.52 x 31.28
Controller housing dimensions	mm / in	600 x 600 x 350 / 23.4 x 23.4 x 13.65	600 x 600 x 350 / 23.4 x 23.4 x 13.65
Maximal working range (X-Y-Z)	mm / in	176 x 176 x 80 / 6.86 x 6.86 x 3.12	176 x 176 x 80 / 6.86 x 6.86 x 3.12
Repetition accuracy of the axes	µm	± 1	±1
Release	µm	1	1
Max. Acceleration	m/s ² / ft./sec ²	90 / 295.2	90 / 295.2
Max. Speed	m/s / ft./min	3.7 / 728.9	3.7 / 728.9
Weight	kg / lbs	80 / 176	120 / 264

The Process Module:

- Base frame with protective covering
- Maintenance hood
- X-Y axis system
- Carrier system
- Fixing elements
- Indicator lights
- Cabling and pneumatic installation

The Rotary Indexing Table:

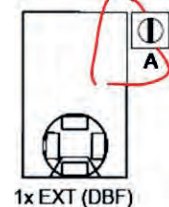
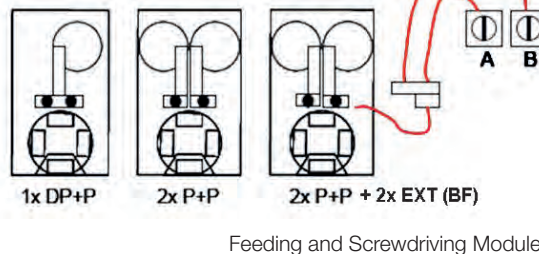
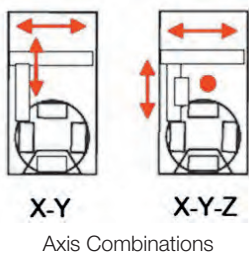
- Pneumatic rotary table
- Optical part sensor
- Downholder
- Pneumatic controller for the rotary table and positioning code

The E Controller:

- Industry PC with control panel (IPC as HMI)
- Performance controller of the axes
- Wide voltage power supply (230 V, 115 V)
- Individual controller housing

Optional Equipment	Description
Screwdriving Function Module SFM-XS	together with pneumatic or electric driven screwdrivers
Screwdriving Function Module	<ul style="list-style-type: none"> • for blow feed applications with separate floor stand • for Pick and Place applications only in connection with DCAM-XS in BF+-design with the specially prepared slide-in
Z-Axis	with mass balancer
Steel Base Frame	for inclusion of E Controller and the DCAM-XS

Optional Combinations of Axis, Accessories and Screwdriving Modules



DP+P = Double Pick and Place
P + P = Pick and Place

BF = Blow feed
EXT = External

DBF = Double blow feed

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