

BenchDot DP

Deep Pneumatic

Marking Windows
100mm x 100mm
150mm x 150mm
300mm x 150mm

Through the simple application of a conversion kit on any BenchDot machine, you can achieve deeper and clearer dot marks on a workpiece with a deep pneumatic BenchDot.

Ideal for marking before surface treatments and marking hard/uneven surfaces.

Standard 4000 embedded controller provides full range of marking and control features. Powerful PC based software package enables customised operator interface, password control, integrated vision systems, component traceability and networking. Marks up to 1mm in mild steel, 1.5mm in aluminium.



STANDARD FEATURES

- 4000 Embedded Controller
- Pneumatically driven Dot Peen marking
- 50mm long, 7mm diameter, solid high-speed steel (HSS) stylus
- Flat, machined base for fixture mounting
- Emergency stop built into controller
- LED lighting integrated under head cover

APPLICATIONS

- Materials to be coated
- Rail
- Oil and gas
- Pipeline
- Casting / forging
- Chassis and engine VIN marking
- Construction applications

OPTIONAL VERSIONS

Benefits / Requirements

Option code

Powered Z-axis, autosense	Programmable height gives precise, repeatable marking force	OPTBDZA
150 x 150mm marking area	Larger marking head for increased markable area	MCYBD1515E
300 x 150mm marking area	Larger marking head for increased markable area.	MCYBD3015E
PC-based software control	Drag and drop editor, user admin rights, connectivity	OPTM2019A
Column extension - 110mm	Increasing column height, and maximum component height by 110mm	OPTBDCE110
Column extension - 200mm	Increasing column height, and maximum component height by 200mm	OPTBDCE200
Integrated camera	Verification of mark quality; requires PC and software Automatic alignment of mark against existing features	OPTVISRS/VS OPTVISMS

TECHNICAL DATA		● Standard ○ Optional	Product / Option Code
Marking area	100mm x 100mm 60mm x 60mm 150mm x 150mm 300mm x 150mm	● ○ ○ ○	MCYBD1010D MCYBD6060D MCYBD1515D MCYBD3015D
Weight	>40kg depending on size and options	●	-
Dimensions	W: 400mm, H: 790mm, D: 465mm With digital z-axis W: 400mm, H: 790mm, D: 471mm Note: 300x150 head cover is wider than the base: W: 515mm	● ○	MCYBD1010D OPTBDZA MCYBD3015D
Nosepiece & stylus	Deep pneumatic - 50mm long, 7mm diameter, 90° stylus tip, high speed steel (HSS)	●	-
Controller/supply requirements	Controller 4000 USB-PC Supply requirements 230V 50Hz / 110V 60Hz 230V 50Hz / 110V 60Hz 6 bar (87psi) non-lubricated, dry	● ○ ●	- - -
Construction	Cast aluminium column and base, metal internals and plastic cover As above As above, metal cover	● ○ ○	MCYBD1010E MCYBD1515E MCYBD3015E
Operating temperature	0°C - 80°C (32°F - 176°F)	●	-
Workpiece hardness	Max. 62 HRC (800HV)	●	-
Marking type	5 x 7, 7 x 9, Varidot, HPGL, BMP Logos	●	-
Character sizes	0.15mm - 300mm in 0.15mm increments, depending on marking head	●	-

COMPATIBLE ACCESSORIES	Description	Product Code
T-slotted base - extruded	For attaching fixtures to the base; extruded aluminium 45mm pitch	ACCBDBT01
T-slotted base - machined	Solid, machined base with 2 slots, 158.7mm pitch	ACCBDBT02
Single label fixture	For right angled labels/parts 35-100mm x 20-75mm x 0.5-2.0mm	ACCBDFX
Magnetic clamp	For flat parts. Area 184mm x 100mm. Holding force 80N/cm ²	ACCBDMC
Magnetic V shaped clamp	Cylindrical parts diameters 5-70mm, includes machine base adaptor	ACCBDMV
Circumferential axis - Standard	Marking round circumference, part diameter up to 76mm with homing sensor	ACCBDA01
Circumferential axis - Medium thru bore	Marking round circumference, 26mm thru bore. Max weight 25kg depending on inertia of mass. Out-riggers may be required	ACCBDA02
Circumferential axis - Large thru bore	Marking round circumference, 54mm thru bore. Max weight 25kg depending on inertia of mass. Out-riggers may be required	ACCBDA03
Electric label feed	For flat, burr free labels 25-110mm x 25-75mm x 0.8-3.0mm thick	ACCBDEL