

Lift and Positioning Unit HP 1/P Variable Lift 0-50 mm Center Position ESD - Bosch Rexroth 3842998493

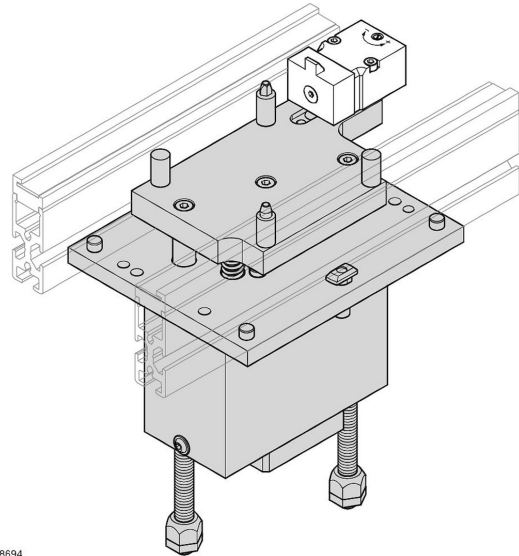
Item no. BRR-3842998493

Manufacturer Bosch Rexroth

Pneumatic lift and positioning unit for the TS 1 transfer system with infinitely variable lift of 0 to 50 mm above conveying level. Positions workpiece pallets with a repeat accuracy of ± 0.025 mm in X and Y. ESD-compatible, cleanroom class ISO 7, supplied fully assembled with protective housing, switch brackets and pneumatic fitting.

TECHNICAL DATA

Ausführungsklasse	TEC
Country of Manufacture	Germany
HS-Code	84313900
Weight	0.0099 kg



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STANDARDS & COMPLIANCE

ESD safe

DESCRIPTION

The HP 1/P lift positioning unit (article 3842998493) raises WT 1/P workpiece pallets above conveying level at a processing station and positions them with a repeat accuracy of ± 0.025 mm in X and Y. The lifting height is infinitely variable from 0 to 50 mm. The unit is suitable for ESD-sensitive processes and is approved for cleanrooms up to ISO Class 7 and dry rooms (r.H. $< 1\%$).

- Repeat accuracy ± 0.025 mm in X and Y - reliable positioning for high-precision assembly processes
- Infinitely variable lift 0-50 mm - adaptable to different working heights without tooling changes
- Three positions (bottom / center / top) - pallets can be passed through, stopped or raised independently
- Integrated fixed stop for pre-positioning; replaceable with optional damper DA 1/B
- ESD-compatible, ISO Class 7, dry room r.H. $< 1\%$ - suitable for demanding production environments
- Permissible vertical process force up to 400 N including workpiece pallet WT 1/P

TECHNICAL DATA

Parameter	Value
Version	Lift positioning unit HP 1/P h=0-50 mm (center position)
Lift of WT above conveying level	0 ... 50 mm (infinitely variable)
Repeat accuracy X/Y	+/-0.025 mm
Permissible vertical process force	400 N (incl. WT 1/P)
Required compressed air supply	4 ... 6 bar
Pneumatic straight connection	dia. 6 mm
Track widths (order parameter)	80 / 120 / 160 mm
ESD	yes
Cleanroom class	ISO Class 7
Dry room	r.H. <1 %
Weight	approx. 0.01 kg (manufacturer data)
Article number	3842998493

MINIMUM WORKPIECE PALLET CYCLE TIMES

Track width b (mm)	Conveying speed v (m/min)	Lift H (mm)	Cycle time t (s)
80	12	50	2.75
120	12	50	2.20
160	12	50	2.34

SCOPE OF DELIVERY

Item
Lift positioning unit HP 1/P h=0-50 mm, fully assembled
Protective housing
Switch bracket SH 1/S (for querying the workpiece pallet position in the HP 1/P)
Switch bracket SH 1/M-A (for querying the position of the HP 1/P)
Pneumatic screw fitting

RECOMMENDED ACCESSORIES

Accessory	Description
Stop gate VE 1	Pneumatic tilting stop gate for pre-separation; spring-actuated to blocking position when depressurized; max. total load 80 kg at 9 m/min
Damper DA 1/B	Pneumatic damper with adjustable damping rate; workpiece pallet load 0.5-6 kg at 9 m/min
Sensor dia. 6.5 mm (SN = 4 mm)	For querying the workpiece pallet position in the HP 1/P and the upper position