

Diamond - Core Drilling Machines
 Diamond - Core Drill Stand
 Diamant - Electric Wall Saws
 Customer-specific power tools



Quick Start Guide for Automatic Drilling Feed BA50

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Dear user of the SR-BA machines,

In the course of constant innovations and improvements, the SR machines were equipped with an optional integrated drilling feed. The user has to connect the drilling feed to the machine via only one cable. After activation of the feed unit, the machine carries out the drilling process independently and in a controlled manner. After drilling through or stopping at the stop, the machine switches off. Due to the control, the drilling process takes place at an optimal and consistent performance level, which leads to a reproducible and fast result.

Assembly of the feed drive

Mount the adapter flange on the drill stand. As a rule, this is no longer dismantled, i.e. the drill stand can also be used without a feed drive.

Now slide the feed drive onto the adapter flange and secure it with the retaining spring. If you pull out the star handle, the drive is disconnected, the feed can now be done manually. By pressing the star handle, the feed drive is coupled, it can now be drilled automatically. In this case, the handwheel on the drill stand can no longer be moved manually. It is safer to remove it.

Service

Install the drill stand and machine as usual and then connect the DC motor plug to the bayonet coupling on the drill housing. Uncouple the feed, manually move the drill bit about one centimeter over the surface and couple it back in. Select the desired drilling diameter as usual on the membrane keypad and start the machine. If you remain on the green button for more than two seconds, the LED underneath will start to glow green. Shortly thereafter, the feed unit will begin to slowly approach the surface and enter the regulated drilling process upon contact. In this mode, the machine operates at 90% of the rated power. Press the green button again for more than two seconds, the LED will start flashing green. The machine now operates at 70% of the rated power. Press the green button again for more than two seconds, the LED will go out and the feed will be disabled.

The drilling process can be stopped by the machine for the following reasons, which are then displayed as a two-digit error code with red flashing LED:

Error code	Meaning	Measure
30	Overcurrent DC motor	-Check the cable between DC motor and machine for damage. - Clean the connector. -Send machine and feed for maintenance.
31	Transmission Error Communication Feed	-Send the machine in for maintenance
32	Transmission failure Communication Feed	- Send the machine in for maintenance.
33	Long idle	- Bring the drill bit closer to the surface and start drilling again.
34	Perforation	- The hole has been completed and the feed has been deactivated.
35	Attack	- The stop has been reached and the feed has been deactivated.
36	Vibration too strong	- Check the attachment of the drill stand. - Switch to manual operation.
37	too frequent overload intervals	-too slow feed. Drill bit no longer cuts, or very high proportion of reinforcement. Reduce drilling performance to 70%, or use more cutting-friendly drill bits.

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