



red dot winner 2020
innovative product



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product design

FREDERICK CROWTHER AND SON LTD

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ROTO CLEAR

For a Clear View from New Perspectives



Advantages

- ✓ Provides a permanent clear view of the production processes
- ✓ Developed for extremely harsh conditions in machine tools
- ✓ Can be retrofitted to almost any machine tool
- ✓ Simple installation
- ...plus many more

Vision Systems
for Demanding Applications

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How it works

The Rotoclear S3 Spin Window provides a clear view of the production process - even in the toughest machining conditions. The spinning window is an approved system, designed to keep the inspection window clean in order to allow continuous monitoring of the machining process. The system is suitable for all kinds of metal cutting machines, including turning centres, milling machines, machining centres and test stands.

The main principle

A transparent rotating disc repels coolant and swarf from the window surface. This allows the operator to always have a clear view of the machining area. The unit is compliant with current safety legislation. An integrated air purge keeps the system pressurised to avoid the ingress of cutting fluid and always operational.

The spin window is driven by a fully integrated direct-drive motor, which is automatically controlled using pre-set parameters for standard operation through the control unit. Overload safety, emergency shut-off and soft start are all executed automatically and ensure safely controlled operation.

Installation

The device is typically attached to the inside of the machine enclosure door at eye level. The inspection window can either be fixed by mounting bolts on a PCD or by an optional adhesive flange that is fixed by a cover and does not involve perforating the machine tool window. Both methods can be carried out by untrained staff following our specially developed procedures for maximum reliability. Alternatively, the installation can be completed during the machine's manufacture in the OEM's facility. For milling machines, it is recommended to use the bolt-on flange version, whereas the adhesive version is appropriate for turning centre applications.

Advantages

- ✓ Worldwide lowest installation height (33.5mm)
- ✓ Maximum field of view based on revolutionary patented drive concept
- ✓ Unobtrusive design: form follows function
- ✓ Dramatically reduced service and cleaning times: the rotating glass disc as a wear part can be changed in less than a minute without dismantling the entire device
- ✓ Simple device installation. Choose either bolt-on or adhesive-mounted version
- ✓ Maximum operational reliability by use of air bleed
- ✓ Low power consumption by use of linear drive technology
- ✓ High torque for the toughest conditions (laminated safety glass VSG)

Rotoclear vision – Option

The capability of the standard Rotoclear S3 Spin Window can be enhanced by incorporating a "bolt-on" Wi-Fi camera option, for wireless monitoring of the machine tool.



33.5mm

Worldwide lowest
installation height

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