

programmable  
process



## Automatic Milling Machine **CORROCUTTER** Smart 638

automatic  
tool referencing



Heavy Duty (HD) Equipment  
(Option)



testing equipment for quality management

**ERICHSEN**  
since 1910

### Technical Description

Sample preparation  
in accordance with  
DIN EN ISO 17872

DIN EN ISO 12944-6

Automatic milling machine  
for standard-conform  
defined cut "scribe" line  
application on samples for  
corrosion testing

## Purpose and application

For standard-conform corrosion testing, the application of an accordingly conform defined cut "scribe" line is inevitable. This "scribe" line is commonly applied by a huge part of users in a manually handled manner.

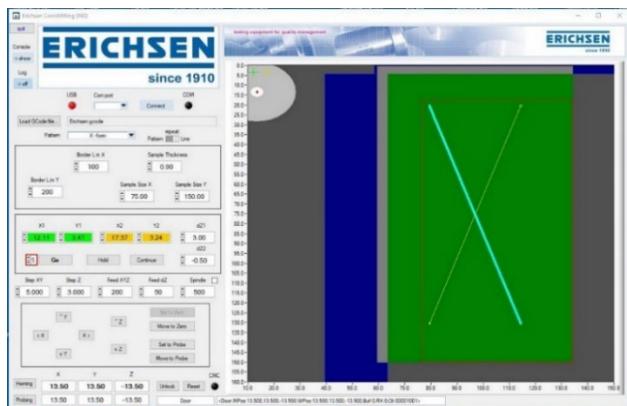
But, a continuously growing number of users have to follow some changed proceeding, prescribed by several relevant standards. In fact, a mandatory prescription to use a milling machine or a rotating saw blade.

The automatic milling machine **CORROCUTTER Smart 638** offers in comparison to the concept of the rotating saw blades decisive advantages in handling, and is not least also due to its programmable process with excellent repeatability, the obvious solution for users who are no longer able to *bridge* their need by the manual methods!

## Execution

The **CORROCUTTER Smart 638** is a tabletop unit. The electromotive drive ensures a constant feed motion of the cutting tool.

All functions are controlled by a comfortable, easy-to-use WINDOWS control software (operating system from WIN7). The software and a USB cable 2.0 are included in the scope of supply.



## Principle of application

The sample plate is fixed on the sample table with variably positionable clamping pieces.



The form of the injury is to be chosen by selecting the appropriate program. The following milling programs are already preset within the delivery specification: X-shaped, L-shaped, T-shaped and diagonal shape as well as single line vertical & horizontal. By entering the sample size, the maximum injury size is calculated automatically.

The edge distances specified by the standard are set automatically.

By entering the sample thickness and cutting depth, the cutting depth through the coating is calculated automatically.

A slightly higher setting value, if necessary, guarantees a residue-free removal of the coating from the track, i.e. from the bottom of the milling channel. A slight removal of the sheet metal substrate, if necessary, is also to be understood as obligatory.

By starting the machine, the whole further milling process is carried out automatically.

If there are similar sample sizes to cut/mill, for example within a series, then there's just a simple change of the sample, without any necessity of further adjustments.

To create corrosion scribes with very thick or high-strength coatings, for example heavy corrosion protection, the **Heavy Duty (HD) equipment as an option** is recommended.

This is a robust milling spindle with higher stiffness and a more powerful drive for difficult-to-cut coatings.

This option can be retrofitted to existing systems (the sample hold-down device for Mod. 638 Smart cannot be used together with the HD option).

With the HD option, the lifetime of the milling cutters can be increased, thereby improving the output of samples with special requirements.

## Technical Data

Dimensions (L x W x H) approx. 550 x 460 x 520 mm

Dimensions sample plate max. 210 x 300 mm (DIN A4)  
min. 75 x 102 mm

Mains connection

Table power supply (100 - 240) VAC, (47 - 63) Hz

Net weight approx. 13 kg

| Order Information |  |
|-------------------|--|
| Ord.-No.          | Product Description  |
| 03310131          | <b>Automatic Milling Machine CORROCUTTER Smart 638</b> , incl. drill millers 1.5 mm/2.0 mm, software and USB cable |
| 32900132          | <b>Heavy Duty (HD) Equipment (Option)</b>  |
| 29600132          | <b>Sound Protection Housing (Option)</b>   |

The right of technical modifications is reserved.  
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