

SBR 700

Saw blade straightening machine for metallic circular saw blades

- Straightening axial run-out of circular saw blade by plastic deformation
- Straightening can be done on steel blade and on new/used saw blade
- Straightening of saw blades possible before or after application of carbide tips
- Simple and intuitive handling of machine via graphical touch panel
- Machine flansh for saw blade corresponds to standard flange of saw machine
- Straightening of saw blades with 300 – 700 mm diameter
- Straightening of axial run out up to a tolerance of 0.04 mm



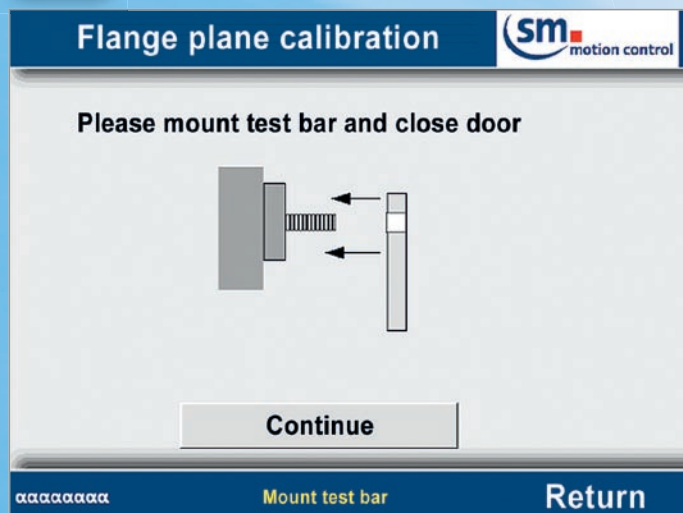
SBR 700

For simulation of real operating conditions mounting of the circular saw blade to the straightening machine is done with exactly the same flange and mounting torque as for application at the real saw machine.

Simple machine setup for the user via graphical touch panel. The hierarchically organized menu system guides the user step by step through an interactive process ensuring that the operator executes all necessary steps for setup of the machine.

In order to setup the machine, only one day of training for the operating personnel is sufficient.

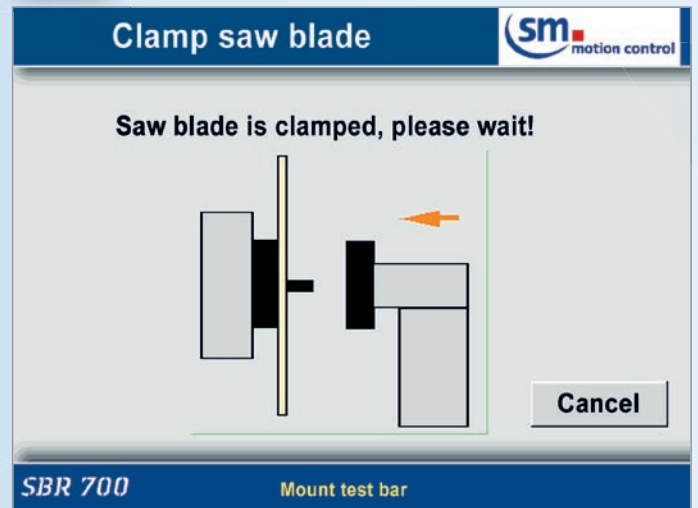
1.



1st step

Teach flange plane of saw blade in machine; via test bar provided. Flange plane of saw blade taught in automatically via integrated sensor system.

2.

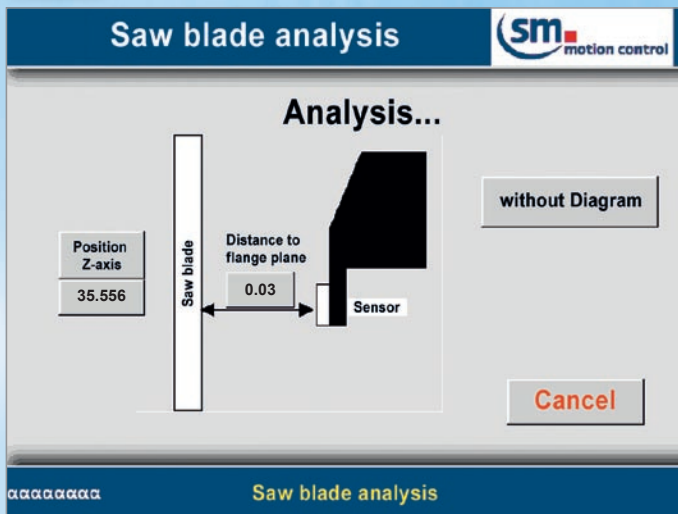


2nd step

Insert saw blade into SBR 700, saw blade is clamped automatically corresponding to the previously defined clamping torque

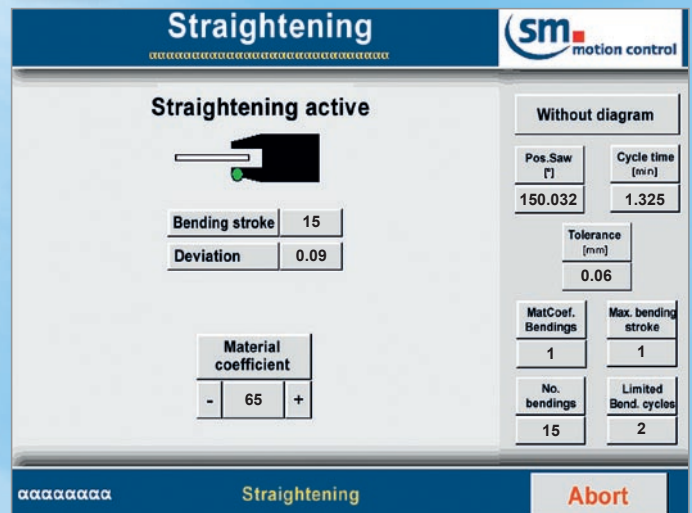
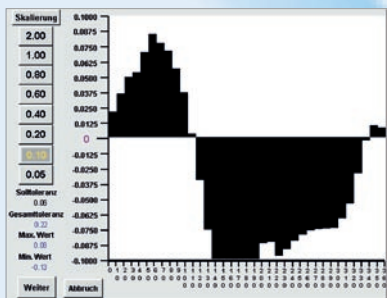
Procedure

- Teach in of flange plane with high-precision test bar
- Saw blade is measured to detect deviations of cutting range to flange plane
- Deviations of saw blade cutting range are compensated by plastic deformation



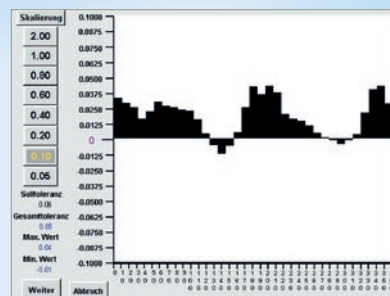
3rd step

SBR 700 analyzes the saw blade to detect deviations to flange plane, the result is displayed as bar diagram.



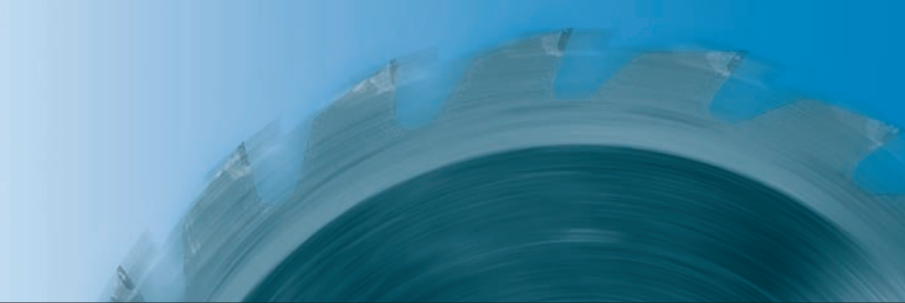
4th step

Tolerance deviations are adjusted by plastic deformation; actual tolerances are displayed again as bar diagram.



Environmental conditions

- Climate controlled operating environment, ambient temperature range: 23 +/- 3 degree C
- Power supply 3 x 400V AC, 16A
- Flanges and saw blades have clean surfaces, free of dirt, corrosion, grease and mechanical defects
- Option: Automated loading/unloading system



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