





Race NC

You can make the race!

Race Service Stone Grinding Machine for Alpine, Cross-Country and Jump Skis.

The Race NC proves once again WINTERSTEIGER's commitment to market and technology leadership in the field of race service. It offers a full set of features for both alpine and nordic skiing.

Thanks to superior technology, easy handling and a compact size, the Race NC is establishing itself as a must-have for national skiing associations, manufacturers, and professional race grinding specialists.

After all, the innovative ongoing improvements are a result of close cooperation between WINTERSTEIGER and a number of national skiing associations and ski manufacturers' racing departments.

The following pages illustrate in detail what the world market leader offers you.



Your benefits summed up:

- Automatic grinding pressure control for high precision and precisely reproducible racing structures
- Perfect structuring of alpine, cross-country and jump skis
- Continuous and dynamic balancing of the grinding stone directly on the machine
- Constant grinding stone height thanks to an automatic laser-controlled adjustment
- Intuitive user controls with a color display and touch screen technology
- Easily transportable, and simple set-up allows for worldwide deployment



Laser-controlled.

To guarantee a constant grinding height, the laser control automatically adjusts the grinding stone in line with wear.

Just perfect.

Continuous dynamic balancing of the grinding stone directly on the machine brings WINTERSTEIGER another giant step towards ultimate precision. This new system allows the stone to be completely vibration-free.



Patented precision!

The Race NC is the first machine with automatic grinding pressure control. This means that it continuously measures the effective grinding pressure between the ski and the stone and adjusts it electronically. A system patented by WINTERSTEIGER that guarantees precise structures over the whole length of the ski.

Other precision features:

- Motor with a zero-play spindle bearing and larger than standard spindle diameter
- Solid machine frame and robust supports for the individual modules
- Hermetically sealed dressing unit with double latex membrane
- Automatic stone cleaning (optional)
- Diamond cooling
- Feed depth of diamond adjustable in steps of 1/1000 mm for the finest structures





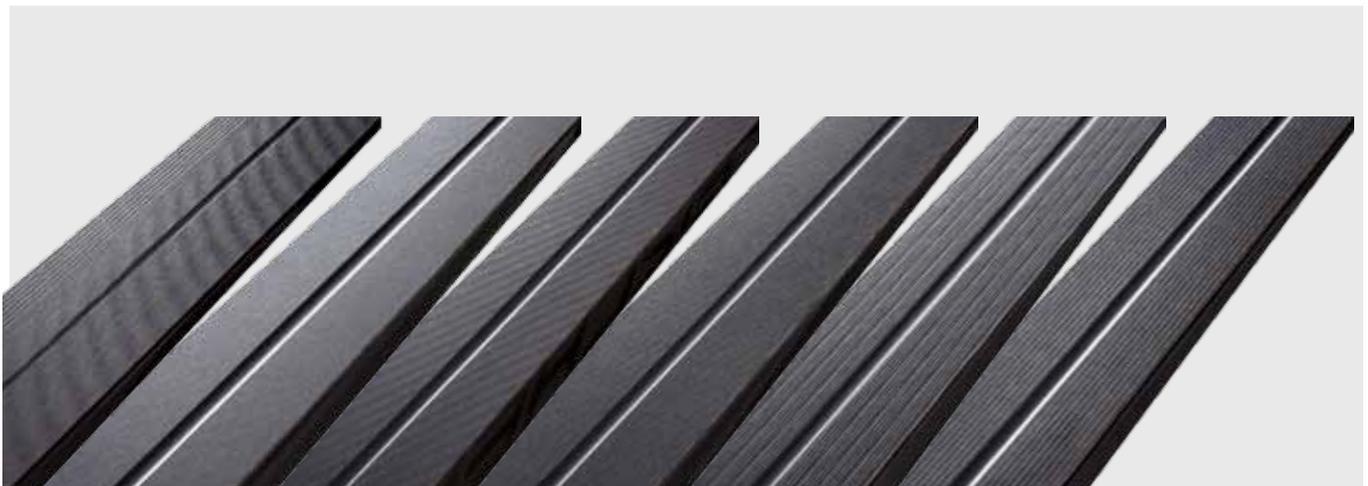
One for all.

Thanks to its flexible ski-centering abilities, the Race NC demonstrates its prowess in the processing of alpine, cross-country and jump skis.

Different structures can be applied across the width of a standard stone (width = 150 mm) making it useful for both pre-grinding and structuring of cross-country skis.

New grinding stones with a width of 70 mm are now available for cross-country skis.

Unbeatable variety of structures.





Everything under control.

Thanks to its state-of-art, innovative technology, the Race NC supports easy and intuitive use. The color touch screen inclination angle is adjustable, and thanks to its intuitive user interface, it guarantees fast and clear-cut setting of the required parameters. The practical drag & drop function gives users the ability to place up to 6 structures across and up to 3 structure depths on the stone. Additionally, a USB port allows users to export and import structure data (which are encrypted to protect against theft).



User friendly.

The Race NC also complies with state-of-art, ergonomic design standards. The optimized operator position, clear visibility in the grinding area and of the diamond (with optional stone/diamond illumination), and 2 individually positionable foot pedals all make work far easier for the user. Stones and diamonds can be replaced easily and quickly.

From A to B.

Thanks to its compact footprint, the Race NC can easily be transported to major events. Even by plane. Practical: The integrated spirit levels and height-adjustable feet help the Race NC to stay perfectly balanced anywhere. The universal power connection (3 x 220 – 400 V, 50/60 Hz) allows for fast commissioning in all parts of the world, as does the fact that the Race NC is a machine that operates without need for compressed air. Thus avoiding the need for time-consuming setting up of power and air supplies.

Compact and clean.

The Race NC can be set up against a wall, thus saving precious space. Besides its space-saving qualities, the Race NC keeps the workplace dry and clean. This is all due to intelligent spraying technology. In combination with a stone cover to prevent water escaping during dressing, this guarantees perfect stone cleaning and minimal water loss.



Automatic temperature control.

The Race NC not only displays the current cooling water temperature on screen. The optional cooling unit has the capacity to keep the grinding water temperature constant at 3° Celsius.

Full range of accessories.

WINTERSTEIGER offers a comprehensive range of specialized accessories to help you customize your Race NC. This includes various grinding stones and diamonds for different racing applications, as well as three different feed wheels (rubberized feed roller, go-kart wheel with tread, or slick) and binding bridges.

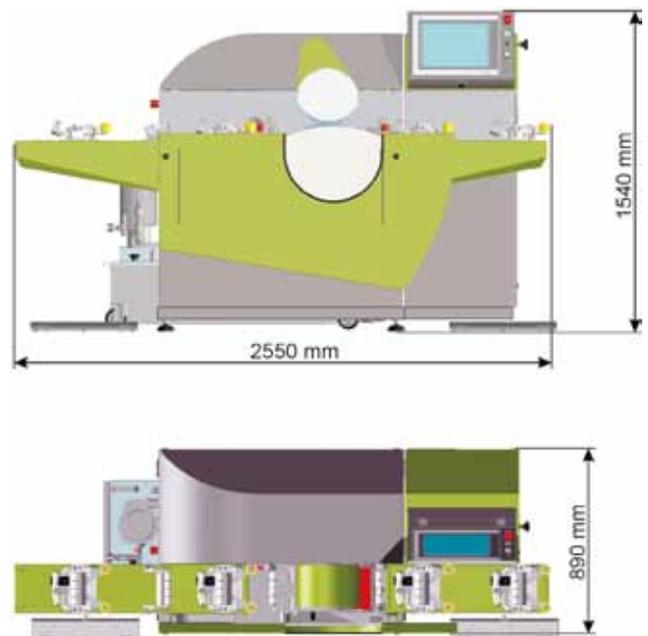
Good news for everyone moving up from the Micro NC: You can continue to use your diamonds and grinding stones (after changing the flange) on the Race NC.

Race NC

Figures. Data. Facts.

Technical data	
Ski length min. - max. with centering	1400 – 2950 mm
Ski length min. - max. with V rollers (option)	1200 – 2950 mm
Ski width min. - max.	25 – 140 mm
Grinding stone diameter max./min.	350/300 mm
Grinding stone width	150 mm (70 mm for CC skis)
Grinding speed stone min. - max.	150 – 1000 rpm
Dressing speed stone min. - max.	500 – 1800 rpm
Feed speed min. - max.	3 – 20 m/min
Contact force feed min. - max.	40 – 400 N
Dressing speed min. - max.	1 – 50 mm/sec
Diamond feed motion	0.002 mm to 0.2 mm (diamond feed in 0.001 steps)
Weight	approx. 1080 kg (2,380 lbs)
Coolant tank volume	150 liters (40 gal)
Noise emission	approx. 74 dB (A)
Connected load	5.7 kW
Rated voltage	3 AC, 220 – 400 V, 50/60 Hz
Rated current	18.1 A
Fuse min./max.	25/32 A

We reserve the right to make technical alterations.



Success starts with the right decision.
At the right time. We look forward to hearing from you!



WINTERSTEIGER
Thinking about tomorrow.

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