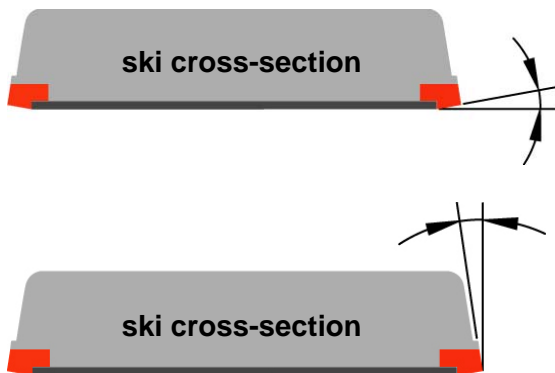


User's Guide and Catalogue: Edge Tuning

Thanks to the combination of ideal cutting angles and highly polished running surfaces, edge tuning with diamond files provides excellent performance characteristics for skis and snowboards



Base Edges

Base Edge angle or 'Bevel' determines the precision and ease of edge transitions during boarding and skiing. It is important that the base edge is polished, however in order to reduce the effect of suction on the base of the ski or board on wet snow the base material must be structured. The use of the tuning guide allows the serviceman to cut and polish the base edge flush with the base material, i.e. not higher or lower than the base, without scoring the base or damaging the structure of the base material.

Side Edges

The angle or bevel imparted to the side edges determines the grip of the skis or board, particularly on harder, icier snow. Acute angles lead to extremely lively and reactive boards and skis but the edges will lose their bite faster than a less aggressive cut.

For the active and performance conscious recreational skier or boarder, a side bevel of 3° combined with a base bevel of 1° provides an excellent performance compromise of grip and smooth edge transitions.

In race tuning the demands for grip and control outweigh the need for a rider friendly ski or board, base bevels are limited to approximately 0.5° whilst side edges are tuned in the range of 3° to 6°, dependent on conditions and rider skill.

For a somewhat friendlier ride on groomed slopes and top performance in powder, base and side angles of 1° are recommended.

The needs of the Free Ride and Downhill Skier are met with a base bevel of 1.5°.

The Tuning Guides, bevelling and Diamond Files illustrated below, when combined with our side edge **Tuning-File Set** will enable sensational performance characteristics for your skis and boards.



Beveling and Diamond Files



Binding Bands



Tuning Guides 0,5° 1° 1,5°

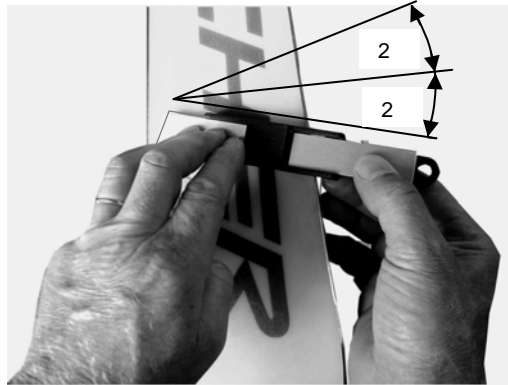
Specifications of all "Base side" Tools	Article	Description	Application
	SET10	SET 2 Fileguides 0.5° and 1° + Diamond File 400 + 2 rubbers	
	SET10PRO	SET 2 Fileguides 0.5° and 1° + Beveling File + Diamond File 400 + 2 rubbers	
	SET20	SET 2 Fileguides 0.5° and 1° + Diamond File 200 and 400 + 2 rubbers	
	SET20PRO	SET 2 Fileguides 0,5° and 1° + Beveling File + Diamond File 200 and 400 + 2	
	GT05	Base bevel fileguide 0,5°	Slalom, SL
	GT10	Base bevel fileguide 1°	Standard and GS
	GT15	Base bevel fileguide 1,5°	Freeride, freestyle and DH
	GT30	SET of 3 fileguides 0,5° 1° 1,5°	SL, GS, DH
	LD200	Diamond File 150 x 20mm 200 Grain	Eliminates of hard spots
LD400	Diamond File 150 x 20mm 400 Grain	Finish	
LD800	Diamond File 150 x 20mm 800 Grain	Race Finish	
LD2040	Double Diamond File 200 + 400 Grain	Eliminates of hard spots + Finish	
LTR10	RACE beveling File	To file the edge bevel	
LTRE10	Spare File for LTR10	Self adhesive	
EL10	10 pieces Rubber stopper band	Retain ski stopper	

How to use the Tuning Guide and Diamond File?

Set the Diamond File in the guide, the desired diamond cutting surface should rest on base of the ski or board and the inscribed cutting angle on the guide should face up.

Rest the thicker semicircular edge against the side edge of the ski or board and with light pressure move the file and guide in a rubbing motion back and forth.

File only with the file and guide held at less than a 25° angle to either side of the perpendicular (see figure). A greater angle lessens the accuracy of the bevel cut, a file held within a $\pm 25^\circ$ angular range will allow the user to file with an angular accuracy in the order of 90%. When minor Base deformities are taken into account, this represents a highly acceptable level for competition and recreational tuning.



In order to ensure that the diamond cutting surface is not subject to uneven wear, it is important that the file position within the guide is regularly shifted during the filing process. For this reason the Tuning Guide set features a longer file than provided with comparable systems, however there is no file securing mechanism provided with the Tuning Guide.

Commence tuning with the 200 Grain diamond file until the desired angle has been cut. The 400 Grain diamond file is used to polish the tuned surface. Demanding recreational skiers, boarders and competition riders may now use the 800 Grain diamond file to give a race finish to the tuned edge. All diamond files may be used wet or dry.

RACE bevelling-File

On heavily damaged base edges it is recommended to use our **RACE bevelling-File** in the Tuning Guide. Before using this steel file however, the 200 Grain diamond file should be used to remove hardened patches from the damaged edge. Use the bevelling file in a pulling motion and follow with the 400 Grain diamond file to polish the surface. Race preparation with the 800 Grain diamond file may now be performed.

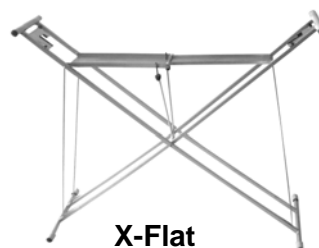
When the damage is too great or generally once per season it is recommended to take your skis or board to your local Sport Store for Stone Grinding. The stone grind may leave a structure or trace pattern on the base edges, this should be polished away with the 400 Grain and 800 Grain diamond files depending on your performance needs.

Prepared Base Edges only live up to their performance potential when the side edges are at the same high finish level. Don't forget to finish your Tuning routine with attention to the side edges, our friendly **Tuning-File Set** and **Roto-Finish** will help you to achieve the overall perfect tune.

Care and Maintenance of diamond files

Smear the diamond cutting surface with dish washing detergent and clean with a copper brush at regular intervals.

Perfect results for high expectations, your tuning work can be made convenient and simple with the help of our folding **X-Flat** workbench.



X-Flat



Tuning-File

user



Roto-Finish