# **Algorithms, Appraisers and Profiles**

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### General Workflow

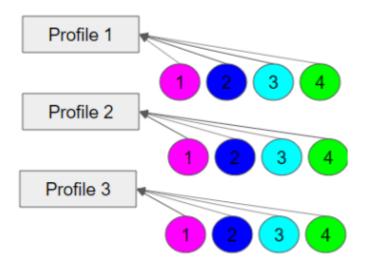
In the system, the algorithms produce solutions of the selected shape (cutting). In most cases, the selected algorithm interacts with some appraiser has its specific list of cutting parameters. Also, each appraiser has a set of profiles. Each profile consists of cutting parameter intervals and presets values. Cutting parameter intervals define where an algorithm should aim the solution, and presets allow producing a spectrum of solutions within profile intervals - all within one run of an algorithm with this profile

### **Configuring Profiles**

Each profile now consists of:

- 1. cutting parameter intervals define where an algorithm should aim the solution ("numbers" for grades: EX, VG, GD, FR)
- 2. presets values allow producing a spectrum of solutions within profile intervals all within one run of an algorithm with this profile

Each profile contains its own set of presets. Thus, if you change some preset, the new value affects only the profile it belongs to - this allows precise configuration of profiles without interference with the other profiles.



There are two types of profiles:

- read-only built-in profiles finely tuned to produce specific resulting solutions with this appraiser; you cannot change these profiles' cutting parameter intervals or presets values.
- editable pre-defined number (usually 5) of profiles that you can edit (change both cutting parameter intervals and presets values). Note: you cannot add, delete or rename editable profiles.

The system allows copying both cutting parameter intervals (Cut and Symmetry tabs) and presets values into your own editable profile. There you can further tune them. More explanations about how profiles and presets are used now and examples are presented in the video below:

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Published:	2019, September 13	Last Updated:	2019, October 22	v.2.0
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### **Available Operations**

When configuring profiles, you can:

- Duplicate existing profile into yours in one click (all tabs, all parameters, both intervals, and preset values)
- Quickly compare your profile with any other both intervals and preset values
- Load intervals for all parameters (all tabs!) in one click
- Load intervals only, presets only, or both intervals and presets in one click
- · Load presets values for all presets or only for one preset

Appraiser	r Editor																									×
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Cut	Symmetry	Other																								
Parame	eter		[ FR	[ GD	[ VG	[ EX	EX ]	VG ]	GD ]	FR ]	1.Ult	aSym	2.Hig	hSym	.Mediu	umSyr	I.Nom	nalSyn	5.Sta	ndard	6.Lov	vSym	Extend	ledLim	8.Ma	xMass
Table		0	10	46,5	49,5	51,5	62,4	66,5	69,5	99	1	0,9	1	1	1	1	1	1	1	1	1	1	1	1	100	100
CrownA	Angle	0	10	21,75	26,25	31,25	36,75	38,75	40,25	90	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100	100
Pavilion	hAngle	0	10	38,7	39,7	40,5	41,9	42,5	43,1	90	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100	100
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StarLen	gth	0	10	32,5	37,5	42,5	57,5		urrent 5 eference 1.	90	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100	100
LowerG	iirdleLength	0	50	57,5	62,5	75	80		ifference + 4.		1	1	1	1	1	1	1	1	1	1	1	1	1	1	100	100
GirdleB	ezel	0	0	1,25	1,75	2,25	4,75	5,75	7,25	20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100	100
GirdleVa	alley <u>∓†</u>	0	0	0	0,35	0,75	2,94	4,14	6,14	20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100	100
CrownH	Height	0	5	10,5	12	12,3	17	17,5	18,5	40	1	1	1	1	1	1	1	1	1	1	1	1	100	100	100	100
TotalHe	eight	0	10	54	57	58	64,5	66	70	90	1	1	1	1	1	1	1	1	1	1	1	1	100	100	100	100
Culet		0	0	0	0	0	0,2	1,5	2	20	-	0,5	-	1	-	1	-	1	-	1	-	1	-	1	-	100
CrownP	ainting	0	-9	-6	-3	-2,5	2,5	5	7	20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100	100
Pavilion	Painting	0	-9	-5	-3	-2,5	2,5	4	6	20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100	100
SumPai	inting	0	-9	-6	-5	-3,5	5	8	10	20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100	100
GirdleVe	erticality		-20	-1,5	-1	-0,5	0,5	1	1,5	20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Height	GirdleExtraFace	et 🛈	0	0	0	0	2	4	8	20	-	0,5	•	0,6	•	0,6	•	0,6	-	0,8	-	0,8	-	1	-	1
GirdleC	rownExtraFace	ets	0	0	0	0	0	2	4	20	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1
GirdlePa	avilionExtraFac	cets 🛈	0	0	0	0	3	4	6	20	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1
GirdleE>	xtraFacets	0	0	0	0	0	2	4	8	20	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1
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#### Available operations:

- You can only modify editable profiles, so first go to one of them under your appraiser.
- Click Show Presets, if necessary.
- To compare your profile to another one, in Intervals and/or Presets sections, select value in Show difference from. Mouse over the highlighted differences to see details.
- To select parameter click it. Use the context menu to select all.
- To deselect parameter, click it again. Use the context menu to deselect all.
- · For selected parameters, use the context menu to load Intervals from, Presets from or Intervals and Presets from.
- Unsaved changed values are highlighted with bold. Unsaved changes notification is displayed.
- To save changes, click Apply. Applying saves on all tabs. Applying intervals also saves presets, but not vise versa.
- To load intervals for all parameters (all tabs), in the Intervals section, use Load Profile.
- To load preset values for all parameters (all tabs), in the Presets section, use Load Presets. Use All presets or select the preset to load.
- To load an entire profile (all parameters and preset values on all tabs), use Duplicate Profile. Changes are automatically applied immediately.
- You can Discard unsaved changes. Discarding erases changes on all tabs, for intervals and presets separately.
- You can at any moment step-by-step Undo or Redo your changes. Works both for saved and unsaved.
  You can copy and paste values, using CTRL-C, CTRL-V or the context menu.
- You can rename your editable profiles.

### **Specific Presets Cases**

Commonly, the preset is the additional limitation on top of the cutting parameter interval. Thus:

- if you specify a preset value less than "1" (like "0.5", "0,25",) you narrow the boundaries set by cutting parameter intervals
  if you specify a preset value less than "1" (like "1.5", "1,25",) you widen the boundaries;
- if you specify "1", boundaries are not changed and taken from interval without modification

#### Cases:

- 1. When the parameter has no intervals specified, but has values in the presets. Then presets contain direct value for this parameter.
- 2. Parameter does not have the left boundaries (means the left boundary is "0"). Then cutting parameter interval is multiplied by preset value.
- 3. Parameter has both left and right boundaries. Then the following formula is used

b\_mid = b\_min \* 0.5 + b\_max \* 0.5; real\_border\_min = b\_mid - (b\_mid - b\_min) \* presets\_min; real\_border\_max = b\_mid + (b\_max - b\_mid) \* presets\_max.

#### Where:

- b\_min the left boundary of the interval for a Grade;
- b\_max the right boundary of the interval for a Grade;
  presets\_min = left value of a preset;
- presets\_max = right value of a preset.

There are also specific cases of preset usage:

- SmartNormalize this algorithm does not use any appraiser but has its own set of presets that are used directly;
  SmartRecut presets of this algorithm are especially actively used and important for the final result

### Pricelist

The Pricelist is used during allocation to calculate the Price of each solution. The current pricelist name is "LEXUS\_PRICE\_01MAY\_2020".

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5 0	Ival	8157\$ 🔵	1.6029	SR	71.73%	H +7.29	VG	VG	
4 0	Ival	9120\$ 🔵	1.5975	SR	71.28%	H +7.10	EX	EX	
☐ 10 0	Ival	9120\$ 🥚	1.5964	SR	71.28%	H +7.32	EX	EX	
<b>√</b> 8 C	Ival	9120\$ 🜔	1.5953	SR	71.28%	H +7.53	EX	EX	
7 0	)val	9120\$ 🔵	1.5943	SR	71.28%	H +7.57	EX	EX	
9 0	)val	9120\$ 🏮	1.5930	SR	71.28%	H +7.64	EX	EX	
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## Presets Rename and Color Legend Change in 5.2.22

As different system versions may be in use, it is useful to know that starting from version 5.2.22 the color legend and names of some presets have been changed.

Here are the changes spread between profiles of most appraisers:

	raSym	2.Hig	hSym	3.Medi	umSym	4.Norn	nalSym	5.Sta	ndard	6.Lov	vSym	'.Extend	edLimit	8.Ma	Mas
1	1	1	1	1	1	1	1	1	1	1	1	1	1	100	10
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1	1	1	1	1	1	1	1	1	1	1	1	1	1	100	10
1	1	1	1	1	1	1	1	1	1	1	1	1	1	100	10
1	1	1	1	1	1	1	1	1	1	1	1	1	1	100	10
1	1	1	1	1	1	1	1	1	1	1	1	1	1	100	10
1	1	1	1	1	1	1	1	1	1	1	1	1	1	100	10
1	1	1	1	1	1	1	1	1	1	1	1	1	1	100	10
1	1	1	1	1	1	1	1	1	1	1	1	100	100	100	10
1	1	1	1	1	1	1	1	1	1	1	1	100	100	100	10
-	0,5	-	1	-	1	-	1	-	1	-	1	-	1	-	10
1	1	1	1	1	1	1	1	1	1	1	1	1	1	100	10
1	1	1	1	1	1	1	1	1	1	1	1	1	1	100	10
1	1	1	1	1	1	1	1	1	1	1	1	1	1	100	10
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-	0,5	-	0,6	-	0,6	-	0,6	-	0,8	-	0,8	-	1	-	1
-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1
-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	1
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Here are the changes related to the presets used by the SmartNormalize algorithm:

### New version

Cut	Symmetry	Other				
Param	neter	1.Hi	ighSym	2.MediumSym	3.LowSym	4.NoSym
TimeL	imit		2	2	2	2
Square	eLimit		5	5	5	5
Distan	ceLimit1		50	50	50	50
Distan	ceLimit2		100	100	100	100
Symm	etryCoeff		100	10	1	0
Equab	leGirdle		20	20	20	20
				×.	1	

### Previous versions

Cut	Symmetry	Other			
Parame	eter	1. Small	2. Medium	3. Large	4. ExtraLarge
TimeLi	mit	2	2	2	2
Square	Limit	5	5	5	5
Distanc	eLimit1	50	50	50	50
Distanc	eLimit2	100	100	100	100
Symme	etryCoeff	0	1	10	100
Equable	eRundist	20	20	20	20
2nd		1	1	1	1
KeepDa	ata	0	0	0	0

# **Related Pages**

Smart Recut, search page for the "preset" information.
My Appraiser, see the "Profiles" section