Computer-graphic Aided Three-dimensional Interactive Application

Generative Shape Design

2019



















두 Arc의 원점 선택 > Constraints Defined in Dialog Box 🗊 : Coincidence Constraint 📺 :치수기입





Surfaces : Sweep 🛜 > Profile : Sketch.2(R100 Arc) Guide curve:Sketch.1(R300 Arc)

Swept Surface Definition		
Profile type: 🌈	<u> </u>	2
	Subtype: Wit	th reference surface 📃 💌
PX	Profile:	Sketch,2
	Guide curve:	Sketch, 1
° G 🔻	Surface:	Default (mean plane)
	Angle: Odeg	
– Optional eleme	Angular sect ents	or: Previous T / 4 Next
Projection of	the guide curv	ve as spine
Spine: D	efault (Sketch,	.1)
Relimiter 1: N	o selection	
Relimiter 2: N	o selection	
Smooth sweepi	ng	
Angular corre	ection: 0,5de	9 🗄
Deviation from guide(s): 0.001mm		
Twisted areas r	management -	
Besitieping para	ers on Previev	V
Position profi	ile Show pa	rameters >>
		OK Gancel Preview

✔ 반지름이 큰쪽을 Guide curve로!







Surfaces : Sweep > Profile : Sketch.4(R100 Arc) Guide curve:Sketch.3(R300 Arc)

Swept Surface Definition		? 🗙
Profile type: 🧹		
► A ∠	Subtype: With reference surface	-
P	Profile: Sketch,4	
3	Guide curve: Sketch, 3	_
	Surface: [Default (mean plane)	
	Angle: Odeg 🔁 Law,,,	
	Angular sector: Previous 1 / 4	ext
Optional eleme	ents	
Projection of	the guide curve as spine	
Spine: D	efault (Sketch,3)	
Relimiter 1: 🕅	lo selection	
Relimiter 2: 🖪	lo selection	
Smooth sweepi	ng	
Angular com	ection: 0.5deg 🔁	
Deviation from guide(s): 0.001mm		
Twisted areas management		
Remove cutte	ers on Preview	
Positioning para	ile Show parameters >>	
	🔵 OK 🥥 Cancel 🖉 Previ	ew







Swept Surface Definition	
Profile type: 💉 🖌 📈	
Subtype: With reference surface	
Profile: Sketch.6	
Guide curve: Sketch.5	
Surface: Default (mean plane)	
Angle: Odeg 🖆 🔝	
Angular sector: Previous 1 / 4 Next	
Optional elements	
Projection of the guide curve as spine	
Spine: Default (Sketch.5)	
Relimiter 1: No selection	
Relimiter 2: No selection	
Smooth sweeping	
Angular correction: 0.5deg	
Deviation from guide(s): 0.001mm	
Twisted areas management	
Remove cutters on Preview	
Positioning parameters	
OK OK Preview	



Surfaces : Sweep 🛜 > Profile : Sketch.5(R150 Arc) Guide curve:Sketch.6(R200 Arc) Operations : Trim 가 > Trimmed elements:Sweep.1 & Sweep.2 선택 Other side/next element: 제거될 부분 선택

✔ 투명한 부분이 remove

✔ remove될 부분 확인!

Trim Definition		
Mode: Standard	•	
Sweep.1 Sweep.2		
Add after	Add before	
Remove	Replace	
Other side / next element		
Other side / p	revious element	
Support: Default (None)		
Elements to remove: Default (N	lone) 🦉	
Elements to keep: Default (N	None)	
Result simplification		
Intersection computation		
Automatic extrapolation		
	Cancel Preview	



Operations:Trim祝 >	Trim Definition	? 🔀
Trimmed elements:Sweep.3 & Trim.1 선택	Mode: Standard	
✔ remove될 부분 확인!	Sweep, 3 Trim, 1	
	Add after	Add before
	Remove	Replace
	Other side / nex	t element
	Other side / previo	us element
	Support: Default (None)	naisia
	Elements to remove: Default (N	lone) 🥳
	Elements to keep: Default (N	Jone) 🥳
	Result simplification	
	Intersection computation	
	Automatic extrapolation	
		Cancel Preview





Spec. Tree : Sketch.1~Sketch.6 를 Mouse로 선택(주황색),

Operations : Symmetry 2 > Element : Trim.2 Reference : yz plane











Spec. Tree : Join.1 을 Mouse로 선택(주황색) > Mouse 오른쪽 버튼 Click(Contextual Menu) > Hide/Show



Dress-Up Features > Edge Fillet🕎 > Radius : 5mm

> Objects to fillet :8 elements <- Round할 모서리 선택





[다른 방법]

Swept Surface Definition ? \times		
Profile type: 🧹 💉 💉		
Subtype: With reference surface		
P Profile: Sketch.2		
Guide curve: Sketch.1		
Surface: Default (mean plane)		
Angle: Odeg		
Angular sector: Previous 1 / 4 Next		
Optional elements		
Projection of the guide curve as spine		
Spine: Default (Sketch.1)		
Relimiter 1: No selection		
Relimiter 2: No selection		
Smooth sweeping		
Angular correction: 0.5deg		
Deviation from guide(s): 0.001mm		
Twisted areas management		
Remove cutters on Preview		
Setback 2 %		
Fill twisted areas		
Connection strategy: Automatic		
Add cutter		
Positioning parameters		
Position profile Show parameters >>		
OK Gancel Preview		



Swept Surface Definition ? ×		
Profile type: 🎻 💉 💉		
Subtype: With reference surface		
P Profile: Sketch.4		
Guide curve: Sketch.3		
Surface: Default (mean plane)		
Angle: Odeg		
Angular sector: Previous 1 / 4 Next		
Optional elements		
Projection of the guide curve as spine		
Spine: Default (Sketch.3)		
Relimiter 1: No selection		
Relimiter 2: No selection		
Smooth sweeping		
Deviation from guide(s): 0.001mm		
Twisted areas management		
Sathack 2 %		
Connection strategy: Automatic		
Add cutter		
Positioning parameters		
Position profile Show parameters >>		
OK Scancel Preview		



Swept Surface Definition ? \times		
Profile type: 🥑 刘 🥑 📣		
Subtype: With reference surface		
Drofile: Skotch 6		
Profile. Sketch 5		
S G Guide curve. [Sketch.5		
Surface. [Default (mean plane)		
Angle: Jodeg		
Angular sector: Previous 1 / 4 Next		
Projection of the quide curve as spine		
Spine: Default (Sketch 5)		
Relimiter 1: No selection		
Relimiter 2: No selection		
Smooth sweeping		
Angular correction: 0.5deg		
Deviation from guide(s): 0.001mm		
Remove cutters on Preview		
Setback 2 %		
Fill twisted areas		
Connection strategy: Automatic		
Add cutter		
Positioning parameters		
Position profile Show parameters >>		
OK Gancel Preview		
R 200		
R 150		







Trim Definition	? ×		
Mode: Standard			
Trimmed elements			
Sweep.1 Sweep.2 Sweep.3 Symmetry.1 Symmetry.2			
Add after	Add before		
Remove Replace			
Other side / I	next element		
Other side / pre	evious element		
Support: Default (None)			
Elements to remove: Default (None)			
Elements to keep: Default (None)			
Result simplification			
Intersection computation			
Automatic extrapolation			
	OK Scancel Preview		



