## Edit contour vector

(Laser tube cutting machine)

## Introduction

The contour vector is used to characterize the cutting direction of the cutting head at a certain point in the cross section. At the concave corners of I-beams and concave angle special-shaped tubes, the original contour vector often causes side collisions, so the contour vector needs to be modified. Modify the contour vector automatically or manually until the interference detection passes.

## Procedure

 Double-click the left mouse button to select the graphic whose contour vector needs to be modified in the left part column. (Here we take I-beam as an example)



2、 Click" 🌞 "In the drop-down box" L 用户参数配置

Parameter Configuration> interface, and under the <Check before Cutting> function bar, there is the "Cutting Head Configuration" function.

Enter the<User

■ 用户参数配置			×
使用习惯 算法精度 切割前检查	图层配置		
☑ 模拟检测切割头干涉	切割头配置	]	
		确定	取消

3 、 Click Cutting Head Configuration to enter the cutting head parameter configuration interface.

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				120	120	50	+	-
				77	77	28.27	+	-
				29.2	33	33.85	+	-
				22.59	29.2	7	+	-
				15.82	22.59	34.66	+	-
				15.82	15.82	4.35	+	-
				3.2	13.63	13.14	+	-
			$\forall$					
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导入配置								

4. Click on the cutting head list on the left + "Create a new cutting head.

You can modify the name of the cutting head yourself.



5. You can fill in the corresponding size parameters on the right, facing the cutting head, and divide the cutting head into several parts. You can also use the " "8

and"	-	"to add or delete a section.

■ 切割头参数配置							×
切割头参数配置 配置机床的切割头参数和模型,参数用于干	涉检测,模型用	于模拟					
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6. Click a parameter with the left mouse button to modify it, and the 3D model on the left will display the modified part in blue. After modifying the parameters, click <OK> to save the modified parameters and exit the < Cutting Head Parameter Configuration> interface.





7、 Click 『 Select "Automatic Anti-collision" in the drop-down box to enter the interface for automatically modifying the contour vector. Set the following height and cutting head margin. Generally, 1mm is enough for both. Select the application range. Click <OK> to automatically modify the contour vector.



自动防撞	_		$\times$
切割头参数			
切割头	BMH11209XL正装		
跟随高度	1. *		
切割头余里	1mm -		
○ 对当前截面组	● 对所有截面组		
		自动的	<u> </u>

8、 Click" 模拟 "Simulate and check whether there is interference with the cutting head. If there is interference, a prompt box will pop up

藝告		×
当前轮廓向里有切割头碰撞风险,	请打开"编辑轮廓向量"功能进行调整	
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	确定 取消	]

9、 Click OK to enter the manual modification interface of the contour vector.The red segment in the figure is the position where the cutting head will collide with the pipe...



10、 Hold down the left mouse button and drag the node to change the contour vector on the line segment where the node is located. After modification, click Interference Detection until it is modified to "no interference". You can also add and delete nodes. The specific operation steps can be seen in the lower right corner of the interface. After the modification is completed, click <OK> to save the modification results.

