

AP35 – Automatic alignment and stitching of Painting Data

July 25, 2021 SEIKOWAVE



Scope of this application note

- This application note is applicable when you want to align and stitch the data acquired by Rhino Painting, after Painting function is terminated.
 - This application note is also applicable if you want to eliminate some of the stitched data to improve the alignment quality.
- Condition
 - The procedure described in this application note can be applicable to the data acquired by one cycle of Rhino Painting.
 - Once Painting closes its function, the coordinate system stored in the data acquired by Rhino Painting will be different, so that the data acquired by the other cycle of Rhino Painting cannot be aligned.



SEIKOWAVE Step 1; Load the data acquired by Rhino Painting





Step 2; Click "automatic align 3D data" icon





Step 3; Ignore error message





Step 4; Load the data

🔊 Auto Align Window	_		×
Scene View	Image List		
	Visible Name Status	Delete	
All data loaded in "Sandbox" will be loaded over here.			



Step 5; confirm the data





Step 6; confirm the data





Step 7; align the data

ie View	-Image Lis	t		
	Visible	Name	Status	Delet
		bolts 0058	?	
		bolts 0057	?	
		bolts 0056	?	
		bolts 0055	?	
		bolts 0054	5	
		bolts 0053	?	
		bolts 0052	?	
S 3DSL-NDT ? ×		bolts 0051	?	
Predicting Alignment Scores For Scan 13 and Scan 53		bolts 0050	?	
		bolts 0049	1	
		bolts 0048	1	
		bolts 0047	r 0	
		bolts 0040	2	
		bolts 0044	2	
		bolts 0043	?	
		bolts 0042	?	
		bolts 0041	?	
		bolts 0040	?	
		bolts 0039	?	
		bolts 0038	?	
		bolts 0037	2	

If the number of data exceeds 100, alignment may not work due to memory overflow.

Note;



Step 8; check the alignment result

If there are any misaligned data, you will see "x" mark here. These data should be deleted and align again.





Step 9; stitch (merge) the aligned data



2021/7/25



Finished

