

Table 1 Mapping of unique rattan chair parts, key body parts to highlight, camera positioning, and filming equipment

No	Object	Chair's name	Data collection techniques of Rattan Chair-Making Process (Camera 360)						Data collection techniques of Rattan Chair-Making Process (photogrammetry)						
			Important part	Things to highlight	Highlighted body parts	Data collection method	tools	Estimated video clip duration (minutes)	Camera point	Supporting tools	Data collection method	Tools	Estimated duration of data collection (Minutes)		
1		Papasan	Big Ring	Bending technique for	Hands, ampits, inner elbows	360'	Insta360	20 Minutes	One Take Clip	Head	Insta360 Horizontal	Photogrammetry	Primary - DSLR Minimum 120	Estimated time of picture taking	
			Pengerat (1/2 Lingkaran di Corner Joint Creeper	Bending technique for small diameter	Inner thigh, hand	360'		15 Minutes		Chest	Insta360 Body Strap		Canon	Mastori	
			Obat Nyamukan - Decoration		Inner thigh, hand	360'		10 Minutes		Chest	Insta360 Body Strap		Secondary - Iphone 12 Pro	360 Degree Video Scan	15 Minutes
			Rattan Coil (Lesio)	Hand gesture	Hand	360'		10 Minutes		Chest	Insta360 Horizontal Mounting & Custom Standing Rig				
2		Kelek	Back Rest Main - Structure		Fingers, soles of feet	360'	Insta360	15 Minutes	One Take Clip	Chest	Insta360 Body Strap	Photogrammetry	Primary - DSLR Minimum 85	Estimated time of picture taking	
			Kelek Bend	Bending technique for	Inner thigh, hand	360'		15 Minutes		Head	Insta360 Horizontal		Canon	Mastori	
			Diamond Weaving		Finger	360'		10 Minutes		Chest	Insta360 Body Strap		Secondary - Iphone 12 Pro	360 Degree Video Scan	15 Minutes
			Pitrit Weaving 2:1	Hand and finger gestures in the	Finger	360'		10 Minutes		Chest	Insta360 Body Strap				
			Braid Weaving Decoration		Finger	360'		10 Minutes		Chest	Insta360 Body Strap				
3		Gentong	Seat Ring & Galang-galang	Kip joinery of between	Hands, ampits, inner elbows	360'	Insta360	20 Minutes	One Take Clip	Head	Insta360 Horizontal	Photogrammetry	Primary - DSLR Minimum 120	Estimated time of picture taking	
			Curved Vertical Leg		Hands, ampits, inner elbows	360'		20 Minutes		Head	Insta360 Horizontal		Canon	Mastori	
			A-shaped Supporting Structure		Hands, ampits	360'		15 Minutes		Head	Insta360 Horizontal Mounting		Secondary - Iphone 12 Pro Max	360 Degree Video Scan	15 Minutes
			Pitrit Weaving 2:1	Hand and finger gestures in the	Finger	360'		10 Minutes		Chest	Insta360 Body Strap				
			Braid Weaving Decoration	Rounded braid weaving method	Finger	360'		10 Minutes		Chest	Insta360 Body Strap				
4		Bahama / Fabion	Primary structure	-	Inner elbow, sole of foot	360'	Insta360	20 Minutes	One Take Clip	Head	Insta360 Horizontal	Photogrammetry	Primary - DSLR Minimum 85	Estimated time of picture taking	
			Seat Ring		Hands, ampits, inner elbows	360'		15 Minutes		Head	Insta360 Horizontal		Canon	Mastori	
			Vertical Decoration	Hand and finger gestures in the	Finger	360'		10 Minutes		Chest	Insta360 Body Strap		Secondary - Iphone 12 Pro	360 Degree Video Scan	15 Minutes
			Diamond Weaving	Hand and finger gestures in the	Finger	360'		10 Minutes		Chest	Insta360 Body Strap				
			Rattan Coil (Topak Julokan)	Hand and finger gestures in the weaving process	Finger	360'		10 Minutes		Chest	Insta360 Body Strap				
5		Keong	Semioval Ring	-	Hands, feet, inner elbows	360'		20 Minutes		Head	Insta360 Horizontal	Photogrammetry	Primary - DSLR Minimum 85	Estimated time of picture taking	
			U-shaped Supporting Structure	-	Inner elbow, hand	360'		15 Minutes		Head	Insta360 Horizontal Mounting		Canon	Mastori	
			Obat Nyamukan - Decoration		Hand	360'	Insta360	10 Minutes	One Take Clip	Chest	Insta360 Body Strap		Secondary - Iphone 12 Pro Max	360 Degree Video Scan	15 Minutes
			Rattan Coil (Seat)	Hand and finger gestures in the weaving process	Finger, Hand	360'		15 Minutes		Chest	Insta360 Body Strap				

Table 2 Time code information as a technical reference for video recording

Day	Time	Activity	Time duration (min)	Object		Detail of data collection technique			Detail object		
				Chair's name	Parts	Tools	Camera point	Data Spec.	Subject	Position	Highlighted body parts
Data Collection: Camera 360Specification											
Day 1	08.30 - 09.10	Collecting Data: Insta360: Main Structures	20	Gentong	Curved Vertical Leg	Insta360 Horizontal Mounting & Custom Standing Rig	Head	-	CA	Stand Up	Hand, Armpits, Inner Elbow
	09.10 - 09.40		15	Kelek	Kelek Bend	Insta360 Horizontal Mounting & Custom Standing Rig	Head	-	CA	Sit Down	Inner Thigh, Hand
	09.40 - 10.10		15	Kelek	Back Rest Main Structure	Insta360 Body Strap	Chest	-	CA	Stand Up	Finger, Sole of feet
	10.10 - 10.50	Collecting Data: Insta360: Ring Making	20	Keong	Semioval Ring	Insta360 Horizontal Mounting & Custom Standing Rig	Head	-	CA	Stand Up	Hand, Feet, Inner Elbow
	10.50 - 11.20		15	Bahama	Seat Ring	Insta360 Horizontal Mounting & Custom Standing Rig	Head	-	CA	Stand Up	Hand, Armpits, Inner Elbow
	11.20 - 12.00		20	Bahama	Rangka Utama (Leg - Arm rest)	Insta360 Horizontal Mounting & Custom Standing Rig	Head	-	CA	Stand Up	Inner Elbow, Soles
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Data Collection: Photogrammetry											
Day 2	08.30 - 08.40	Chair's Documentation: Gentong	10	Gentong	Whole Chair	Kamera DSLR	-	-	CB	-	-
	08.40 - 09.05	Collecting Data: Photogrammetry	25	Gentong	Whole Chair	Primary Data: DSLR camera	-	Minimum 120 Photos	CB	-	-
	09.05 - 09.20		15			Secondary Data: Iphone 12 Pro Max	-	360 Degree Video Scan	CB	-	-
	09.20 - 09.30	Chair's Documentation: Keong	10	Keong	Whole Chair	Kamera DSLR	-		CB	-	-
	09.30 - 09.40	Collecting Data: Photogrammetry	10	Keong	Whole Chair	Primary Data: DSLR camera	-	Minimum 85 Photos	CB	-	-
	09.40 - 09.55		15			Secondary Data: Iphone 12 Pro Max	-	360 Degree Video Scan	CB	-	-
	09.55 - 10.05	Chair's Documentation: Bahama	10	Bahama	Whole Chair	Kamera DSLR	-	-	CB	-	-
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Table 3 Sorting and data organization table for the editing stage

Chair's Name	Parts	Tools	File's Name	Time Code	Sequence of The Video	Notes
Papasan	Big Ring and Joinery	Insta360 Horizontal Mounting & Custom Standing Rig	VID_20240705_360.insv	0.23 - 7.45	1	Highlight detail gesture: 2.27 - 2.49
			VID_20240705_345.insv	0.20 - 3.57	2a	If the GoPro version can be opened, it is better to use the GoPro version.
		Insta360 Body Strap	VID_20240706_357.insv	0.30 - 4.57	-	The brightness needs to be increased. The 360 version is more precise, but for the ring bending, there is a more visible gesture from the zoomed-out POV.
		Insta360 Body Strap	VID_20240706_358.insv	0.21- 5.17	-	The brightness needs to be increased.
	Corner Joint Creeper	Insta360 Body Strap	GS010433.360	0.20 - 3.55	2b	
		Insta360 Horizontal Mounting & Custom Standing Rig	VID_20240705_346.insv	0.17 - 0.35	-	Highlight detail gesture: 0.35 - 0.46 / 1.06 - 1.11 / 1.34 - 1.42/ 3.22 - 3.27/ 4.35 - 6.40
		Insta360 Body Strap	VID_20240706_359.insv	0.43 - 6.52	5	The brightness needs to be increased.
		Insta360 Horizontal Mounting & Custom Standing Rig	VID_20240705_347.insv	0.20 - 6.56	3a	Highlight detail gesture: 1.10-1.18 / 05.02 - 5.50 / 06.18- 06.40
	Half Circle Supporting Structure	Insta360 Body Strap	VID_20240707_105353_00_365.insv	0.35 - 4.30	3b	Highlight detail gesture: 3.52
		Insta360 Body Strap	VID_20240706_362.insv	0.20 - 1.51	4	
		Insta360 Body Strap	VID_20240706_356.insv	0.06 - 1.25	6	
		Insta360 Body Strap	VID_20240706_356.insv	1.25 - 2.35	7	

*partially shown

Table 4 Timecode table for placing text objects and 3D animations in the 360° video

Chair's name	Time code	Legend/Icon of 3D Video	Time code 3D Clip	3D Clip	Time code (Lowerthird)	Headline lower-third (tools and material)	Time code (lower-third)	Headline lower third (Chair's component)
Papasan	00.00	-	00.00-00.10	Render image 360 3D Papasan	00.58	Tools: Burner To Soften Rattan When Bending Process	0.00	Cirebon Pasan Chair
	00.28-00.31 & 01.00-01.05	Legend video 3D Papasan 1	0:25-01.10	Video 3D papasan 1	1.12	Tools: Catok Clamp to assist in bending rattan	00.20	Component 1: Big Ring – Bending Process Papasan Chair
	01.11-01.13	Legend video 3D Asset Catok	01.12-01.42	Video 3D Asset Catok	"07.40	Tools: Big Saw For Cutting Large Diameter Rattan	7.42	Component 1: Big Ring – Connecting Process Papasan Chair
	03.23-03.26 & 04.35-03.40	Legend video 3D Papasan 2	03.24-03.45	Video 3D Papasan 2	9.53	Tools: Drill To Help Installation of Screws	11.16	Component 2: Pengerat - Bending Process Papasan Chair
	06.32-06.35 & 07.15-07.20	Legend video 3D Papasan 2	06.33-07.30	Video 3D Papasan 2	10.08	Tools: Srews 1.5 inch To Joined Rattan	17.57	Component 3: Obat Nyamukan Decoration Papasan Chair
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Table 5 Comparison of visual information: point cloud data versus final rendered data using photogrammetry

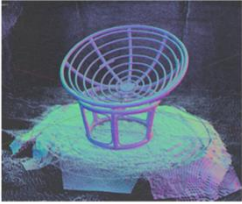
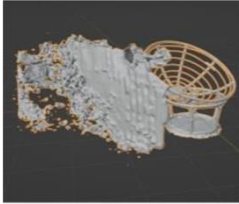
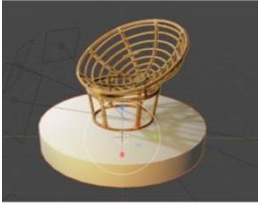
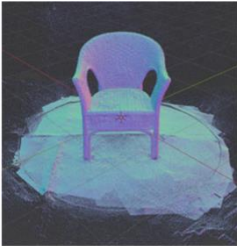
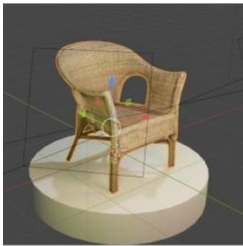
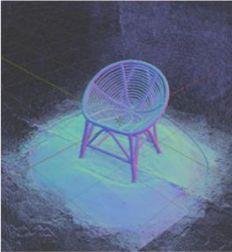
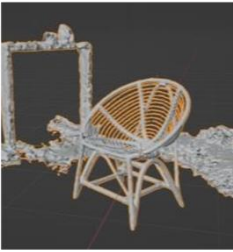
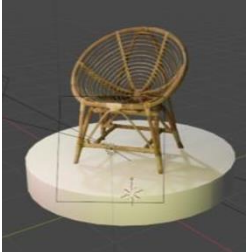
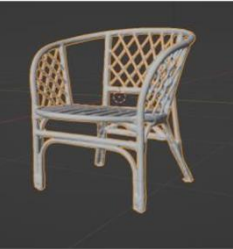
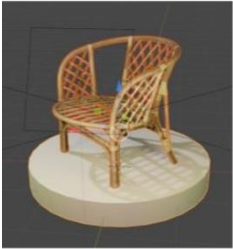
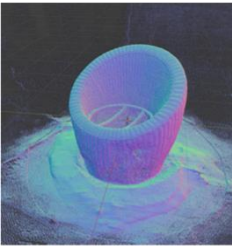
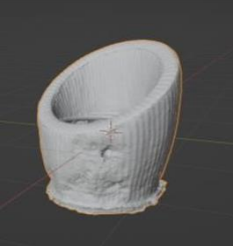
No.	Item	Raw point cloud	Raw mesh	Final polygon
1	Papasan Chair			
2	Kelek Chair			
3	Keong Chair			
4	Bahama Chair			
5	Gentong Chair			

Table 6 Final rendering data of tools used by craftsmen

No	Item	Final Polygon
1	Clamp	
2	Saw for cutting large rattan pieces	
3	Wooden stand for rattan cutting support	
4	Kip saw (curved-blade saw)	