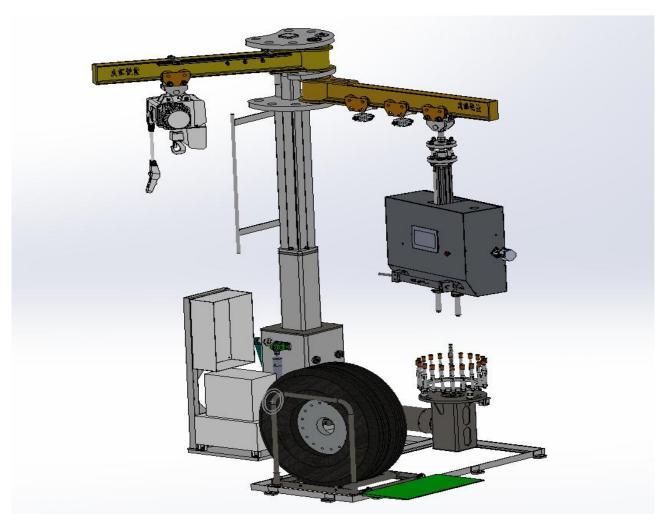


General Purpose Aircraft Hub Torque Machine

TYPE: RN - LJJ2001



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Product Overview:

The aircraft hub torque machine is designed according to the CMM maintenance manual for the front and rear wheels of aircraft tires. It is used to accurately control the torque output device when removing and assembling tire bolts. It can meet the test of hub torque of various civil aviation models. The detailed list is as follows:

NO.	Name	Package Number	СММ	Model
1	Nose wheel	3-1531-1	32-41-13	A320
2	Main wheel	C20195162	32-47-46	A320
3	Main wheel	C20500100	32-42-15	A320
4	Main wheel	3-1692-1	32-41-26	A320NEO
5	Nose wheel	3-1596	32-41-89	A330
6	Main wheel	2612201-2/-3	32-41-12	A330
7	Main wheel	3-1546	32-41-75	A330
8	Nose wheel	3-1659	32-41-40	A350
9	Main wheel	3-1678/-1	32-41-41	A350
10	Nose wheel	3-1438	32-40-32	B737-3/4/500
11	Nose wheel	3-1619 S294W522-360	32-40-45	B737-300



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12	Main	2606671-2	32-40-09	B737-300
	wheel			
13	Main	3-1439-5/-6	32-40-31	B737-300
	wheel			
14	Main	3-1666 S294W512-381	32-40-60	B737-300
	wheel			
15	Nose	3-1710 10-62237-60	32-42-33	B737-MAX
	wheel			
16	Main	3-1674 S277A016-351	32-42-28	B737-MAX
	wheel			
17	Nose	10-62237-12	32-40-48	B737NG
	wheel			
18	Nose	2607825-2	32-40-10	B737NG
	wheel	2007823-2	52-40-10	0/3/10
19	Nose	3-1559	32-40-51	B737NG
10	wheel			
20	Nose	C20637000	32-49-82	B737NG
	wheel			
21	Main	2612301-2	32-40-12	B737NG
	wheel			
22	Main	2612311-1	32-40-14	B737NG
	wheel		52 40 14	
23	Main	2615001-1	32-40-16	B737NG
	wheel	2013001 1	52 40 10	5/3/113
24	Main	3-1557	32-40-49	B737NG
	wheel	5 1557	52 +0 +5	
25	Main	3-1558	32-40-50	B737NG
	wheel	5 100	52 70 50	2/3/110
26	Main	C20626200	32-49-83	B737NG
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	wheel			
	Main	C20633000		
27			32-49-80	B737NG
	wheel	S277A016-551		
28	Main	2603561/-3/-4/-5/-7/-9/-10/-11	32-45-01	B747-200
	wheel	/-12/-13/-14/-15/-16/-50/-51/-5		
		2		
29	Main	3-1479/-1/-2 60B10062-21/22	32-45-02	B747-400
	wheel	, -,		
30	Nose	3-1670 S168U400-330	32-44-70	B747-800
30	wheel			
24	Main			B747-800
31	wheel	3-1664 S168U300-330	32-44-64	
	Nose	3-1423-1/-2	32-40-24	B757-200
32	wheel			
	Nose	S160N010-30/-31	32-40-22	B757-200
33	wheel			
	Main			
34	wheel	S160N020-6 AHA1648	32-42-82	B757-200
	Main	3-1618		
35	wheel	S294W512-380	32-40-44	B777
	Nose	525+11512 500		
36	wheel	2611205-2 294W522-220	32-47-06	B777-200
37	Main	2611201-1 S294W511-260	32-47-01	B777-200
	wheel			
38	Main	2611811-1	32-47-05	B777-200
	wheel			
39	Nose	3-1648	32-44-48	B787
	wheel			
40	Nose	C20598000 S685Z001-590	32-49-63	B787



	wheel				
41	Main	3-1644	32-49-82	B787	
	wheel				
42	Main	3-1645	32-44-45	B787	
	wheel				
43	Main	C20600100 S685Z001-561	32-49-64	B787	
	wheel	020000100 50052001 501			
44	Main	C20649000 S685Z001-570	32-49-75	B787-9	
	wheel	20045000 50052001 570			
45	Nose	5010598-1	32-46-27	CRJ-200	
	wheel	5010350 1			
46	Main	90001200-1 (0B9R9)	32-41-32	CRJ900	
	wheel				
47	Nose	5013640	32-46-30	CRJ-900	
	wheel				
48	Nose	3-1551	32-49-04	EMB145	
	wheel				
49	Nose	3-1662	32-49-08	EMB145	
	wheel				
50	Main	3-1641	32-49-05	EMB145	
	wheel				
51	Nose	90000581/-1	32-49-19	ERJ190	
	wheel				
52	Main	90002317-1/2	32-49-28	ERJ190	
	wheel				
Technical indicators:					

Technical indicators:

- 1. Torque output range: 60-540nm (accuracy: ±2% reading)
- 2. Torque shaft center distance range: 210-570mm(adjustable)
- 3. Telescopic capacity of sleeve components :70mm



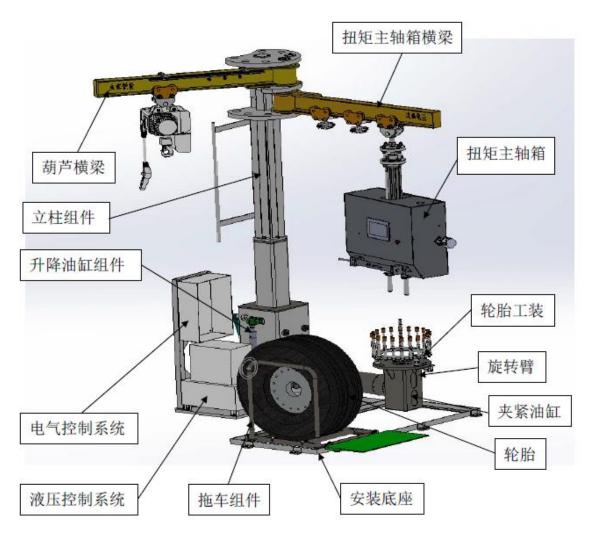
- 4. Power supply: 380V/50HZ 3 phase
- 5. Air source: 0.7mpa/Max
- 6. Cable length: 15m
- 7. Control computer: standard or specified by customer
- 8. Control PLC: Siemens
- 9. Torque output shaft layout: double shafts are tightened at the same time to improve working efficiency by 2 times.
- 10. Hydraulic pressure: 12Mpa/ Max.
- 11. Tire diameter: φ381mm ~ φ1524mm
- 12. Hydraulic working pressure: MaxlOMpa
- 13. Hydraulic working medium: L-HM46
- 14. Spindle box stroke :500mm
- 15. Distance from center of spindle box to center of lifting arm :1270mm
- 16.Weight of spindle box: about 120kg
- 17. Lifting stroke of lifting arm :500mm
- 18. Rotation Angle of rotation arm :90°
- 19. Manual hoist load :300Kg
- 20. Length of equipment: about 2500mm
- 21. Width of equipment: about 2100mm
- 22. Height of equipment: about 3500mm
- 23. Total weight of equipment: about 1400kg

System composition and functions:

The equipment is mainly composed of mounting base, trailer assembly, lifting cylinder, clamping cylinder, rotary cylinder, lifting arm assembly, column assembly,



hoist beam assembly, torque spindle box beam assembly, upper and lower pressure plate assembly, torque spindle box assembly, hydraulic system, electrical control system and so on.



The installation base consists of pedal, rack, rack pressing plate, anchor bolt, and installation base plate, covering an area of 2480 x 2100mm.

The trailer assembly consists of a trailer frame, roller, drum 1 and drum 2. The trailer frame is welded from Angle steel and steel pipe. The roller is composed of roller body and bearing. Roller 1 and roller 2 are composed of roller shaft, roller and



bearing. Roller 1 bearing adopts common deep groove ball bearing, and the rotation direction is bidirectional. Roller 2 bearing is one-way bearing, the direction of rotation is one-way.

The operating temperature of the lifting cylinder assembly is -10°-60°C, the operating speed is 8-300mm/S, and the operating pressure is 0.3-14mpa. The cylinder parameters are: cylinder diameter: 50mm, piston rod diameter: 25mm, stroke: 200mm. Under the condition of 70Kgf/cm3, the theoretical output is 1373Kgf on the thrust side and 1030kgf on the tension side.

The function of the column assembly is to support the hoist beam assembly, torque spindle box beam assembly, torque spindle box assembly and support the power supply signal line.

The function of hoist beam assembly is to support hoist, mainly composed of beam, wire frame, rotary seat, sports car, limit pin, hoist and so on. Parameters of hoist: rated load: 0.5t, lifting height; 6 meters, lifting speed 7.8 meters/min.

The function of torque spindle box beam assembly is to support the torque spindle box, which is mainly composed of beam, line clip, rotary seat, sports car, limit block, torque box bearing seat and so on.

Torque spindle box component is mainly composed of lift cylinder, cylinder oriented axis, a hood and a drive motor, preload adjustment knob, torque, torque shaft axis extension rod, manual handle, urgent stop switch, touch screen, guide shaft,



photoelectric sensor, the sensor, the small cylinder, linear bearings, grating ruler, spin around ball screw, handles, etc. The horizontal movement distance of the two torque shafts in the torque box is 210-570mm, which is driven by the servo motor. The rotary movement of the servo motor is changed into linear movement through the ball screw, and the torque shaft is driven to move horizontally on the left. The distance signal is detected by the grating ruler and the moving distance is controlled. The lifting cylinder controls the movement of the torque shaft in the vertical direction, and the movement stroke is 500mm, which is guaranteed by the lifting cylinder. Two torque shafts are equipped with a small cylinder, respectively, to control the relative displacement of the torque shaft itself, the displacement value of the torque shaft itself is a maximum of 70mm.

The tire assembly is mainly used to support and fix the tire to be loaded and unloaded, and fix the head of the tire to be loaded and unloaded bolt, so that the torque shaft of the torque machine can tighten the nut on the other side, and meet the requirements of the tire nut torque in the manual. When used, according to the number of tire bolts and bolt size specifications, need to choose different tire tooling components and the size of the sleeve used.

The rotating arm and lifting arm components are mainly composed of rotating arm, lifting arm, rotary cylinder and lifting cylinder. The function of the rotating arm is to install the tire to be assembled on the tooling assembly, and then rotate it to the station where the torque shaft works normally, and wait for the torque shaft to tighten the nut. The function of the lifting arm is to adapt to different tire thickness



requirements, lifting the rotary arm to the appropriate position, so that the torque shaft can normally tighten the nut.