



Robotic Arm Analysis Report

Basic data:

Machine Name:	Robot	Date:	2019/11/11 15:17
Machine ID:	072	Temperature [°C]:	25.4
Number Of Axis:	6	Location:	Lei & So Co.,Ltd.
Test Direction:	BiDirectional	Operator:	Alex
Record Mode:	Statically		

Setting for DH parameter measurement:

Axis	Number of check point	Neutral posture (deg)	Joint range (deg)	
			-	+
1	12	-0.04790	-11.04790	10.95210
2	14	13.84840	7.34840	20.34840
3	16	110.68600	103.48600	118.48600
4	13	0.11400	-17.88620	18.11380
5	11	54.34000	39.33990	69.33990
6	17	-1.15000	-41.15040	38.84960

DH table:

Joint	Theta (deg)	D (mm)	A (mm)	Alpha (deg)	Beta (deg)
1-2	0.00443	350.0000	79.6269	-90.19619	0.00000
2-3	-89.02062	-0.0062	270.7304	0.00670	-0.01091
3-4	-89.45553	-0.2851	100.5548	-90.05005	0.00000
4-5	0.06642	350.6812	-0.1755	90.24477	0.00000
5-6	0.19238	0.1676	-0.2526	-90.09449	0.00000
6-T	0.00032	100.0002	0.0000	0.00000	0.00000

Axis analysis result:

Axis	Rotary Ratio	Backlash (arcsec)	Position In Last Axis Coordinate (mm)			Error ZX	Error ZY
			X	Y	Z		
1	0.9997	8.17	0.0000	0.0000	350.0000	0° 00' 00.00"	0° 00' 00.00"
2	0.9984	4.62	79.6269	0.0000	0.0000	0° 00' 15.95"	0° 11' 46.27"
3	0.9974	6.35	4.6275	-270.6910	-0.9016	0° 00' 38.86"	0° 00' 24.77"
4	0.9988	40.47	2.6746	-100.5192	0.6165	-1° 31' 25.82"	0° 03' 00.25"
5	0.9978	17.81	-0.1755	-0.0491	350.6805	0° 03' 54.32"	0° 14' 41.19"
6	0.9999	94.01	-0.2526	-0.0007	0.1187	0° 11' 31.57"	0° 05' 40.16"

Approved by:

Confirmed by:

Inspected by:
