

X-Axis Motor wiring diagram

Signal	Color (CF10.05.05)	8-10-0104 Male
U	Brown	1
V	White	4
W	Grey	3
GND	Shield	Case
T+	Yellow	5
T-	Green	6

Y-Axis Motor wiring diagram

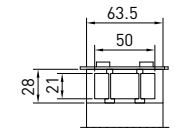
Signal	Color (CF10.07.05)	8-10-0104 Male
U	Black-2	1
V	Black-1	4
W	Black-3	3
GND	Shield	Case
T+	Black-4	5
T-	Yellow/Green	6

Positioning Measurement-Absolute(BISS-C)

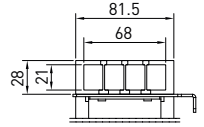
Function	Signal	Color	8-10-0089 Male
Power	5V	Brown	4
	-	Blue	2
	0V	White	12
		Green	13
Clock	MA+	Violet	7
	MA-	Yellow	6
Data	SLO+	Grey	11
	SLO-	Pink	3
Outer Shield	Shield	-	Case

Limit switch wiring diagram

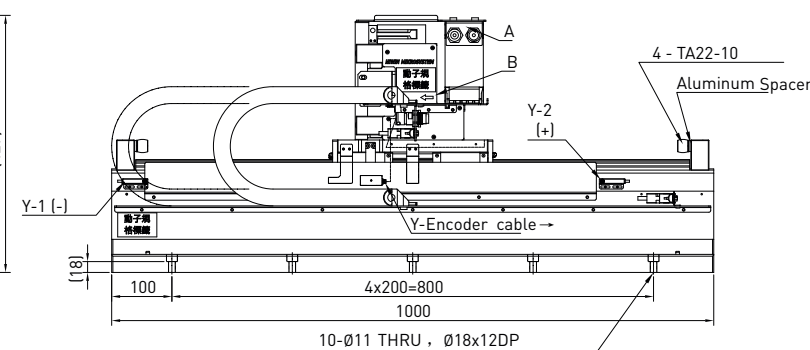
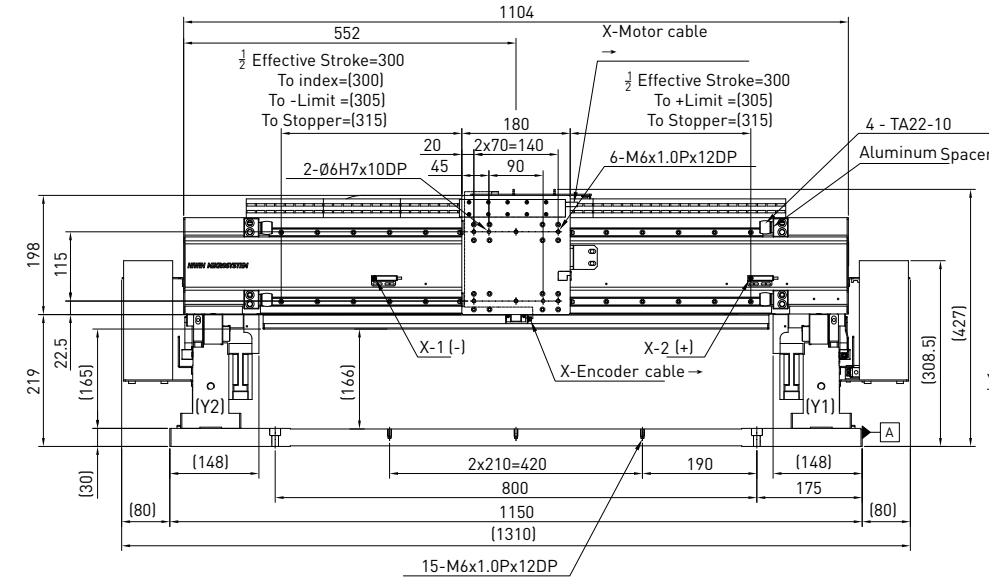
Signal	Color	D-Sub Male-9P
2-A	Black	1
-	Blue	2
		3
		4
		5
+	Brown	6
1-A	Black	7
		8
		9



View A (Cable inlet)
X-axis Cable Chain type :
1400.050.048.0
21.1*2 per 2 elements



View B (Cable inlet)
Y2-axis Cable Chain type :
(Y1 = Y2)
1400.068.075.0
21.1*3 per 2 elements



Stage Type	LMG3A-CB5-2CEFE4-600-600-X10C
Motor Type	X-axis(upper) : LMCEB5 ; Y-axis(lower) : LMCFE4
Stroke (mm)	X-axis(upper) : 600 ; Y-axis(lower) : 600
Repeatability (µm)	X-axis : ± 1 ; Y-axis : ± 1 (with HIWIN solution)
Accuracy (µm)	X-axis : ± 3 ; Y-axis : ± 3 (with error-mapping)
Max. Velocity (m/s)	X-axis : 0.5 ; Y-axis : 0.5 (with payload)
Max. Acceleration(m/s^2)	X-axis : 5 ; Y-axis : 5 (with payload)
Linear Encoder	Absolute, BiSS 26 bit , 50nm, EL26BBB050FxxA
Linear Scale	RTLA50-S
Vertical Straightness (µm)	± 10 / 300 mm
Horizontal Straightness (µm)	± 10 / 300 mm
Yaw (arc-sec)	± 10 / 300 mm
Pitch (arc-sec)	± 10 / 300 mm
Orthogonality (arc-sec)	10 [200x200mm central stroke]
Limit Switches	Wenglor Inductive PNP (NC) , 11BH009
Moving Slide	Aluminum with black anodized finish
Stationary Base	Aluminum with black anodized finish
Payload (kg)	10
Moving Mass (kg)	X-axis : { 5 } ; Y-axis : { 50 }
Stage Weight (kg)	{ 230 }
Grease Type	HIWIN G04 (for normal environment)
Input voltage(V)	220
Drive architecture	X-axis : Single; Y-axis : Dual
Drive Type	HIWIN ED1 recommended
Stage orientation	Horizontal

HIWIN MIKROSYSTEM CORP.

TYPE		LM ROBOTS (Dual Gantry)	
CUSTOMER		H-GERMANY	
DATE		Apr.27.23	
ROUGH	FIT	DRD	SCALE
8.0µ	1.2µ	0.5µ	1.X
TOLERANCE mm			
UP	6	30	120
TO	4	30	120
		120	300
		300	600
		600	1200
		1200	2400
		2400	2400
±0.1	±0.2	±0.3	±0.4
		±0.5	±0.8
			±1.0
			±1.5

MATERIAL	FINISH	PART NO	NAME	DWG NO	SHEET
		FM22M2343200			
APPROVAL	M23432	A2	1-1		

TYPE: LM ROBOTS (Dual Gantry)
CUSTOMER: H-GERMANY
DATE: Apr.27.23
MATERIAL: \\
FINISH: \\
PART NO: FM22M2343200
NAME: \\
DWG NO: \\
SHEET: 1-1

CHK: 顏靜涵
CHK: 黃鈺婷
CHK: 張家榮