

LH1

series 高性能精密冲床

High Efficiency Precision Press



LH1-80

SHING TAI IRON WORKS CO., LTD.

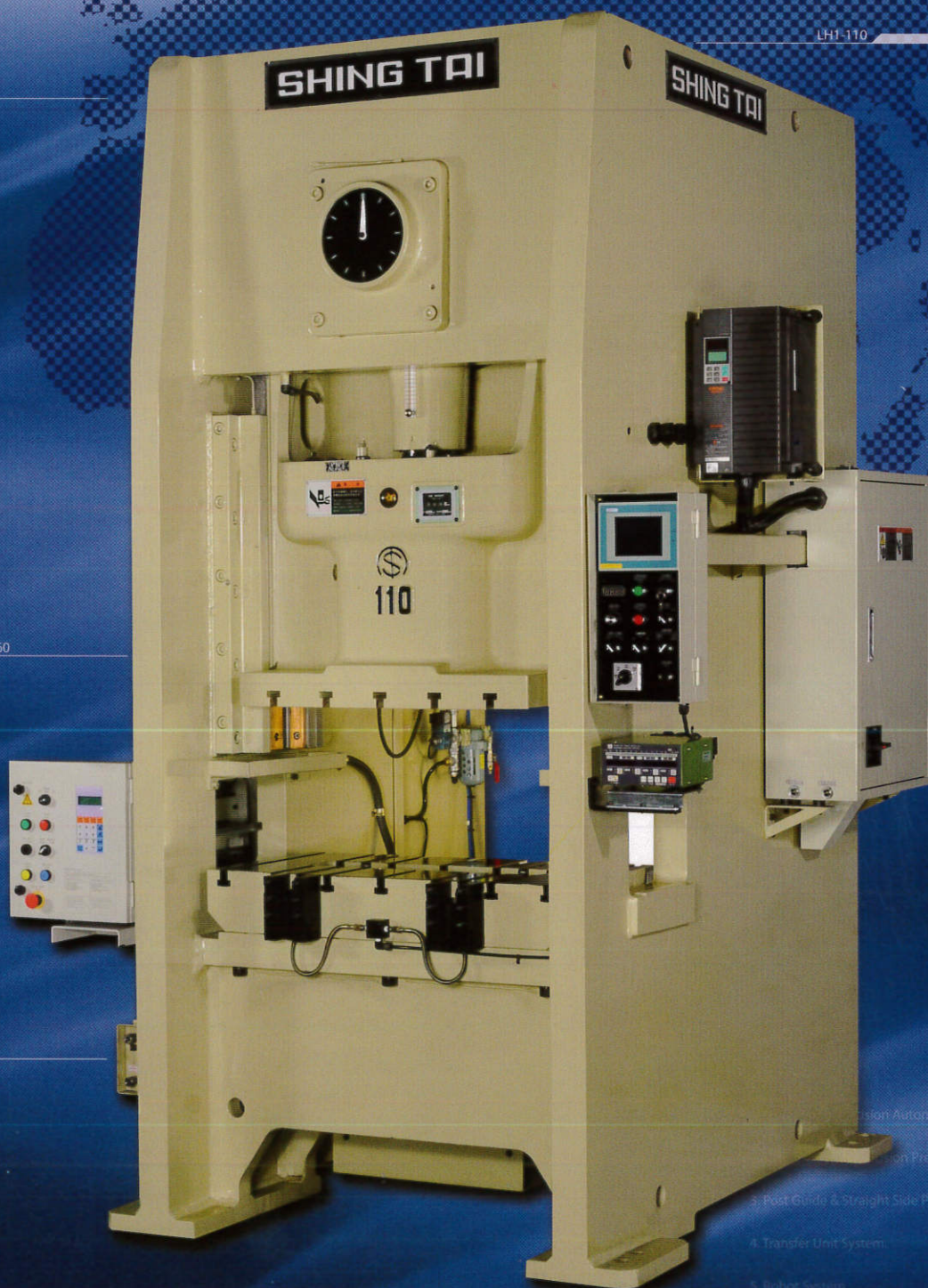
Founded Since the year 1961

Plant site : 4500 m²

This company is a manufacturer of machinery with excellent import and export records. This company has the honor to win the 3rd annual Taiwan GOLDEN DRAGON AWARD for machinery.

LH1-160

LH1-110



LH1-200

Precision Automatic Press

on Press

3. Post Guide & Straight Side Precision Press

4. Transfer Unit System

5. Robot System

6. Automatic Feeder Conveyor

Together We Shape The Future.



- ▶ *The Design Without Opening is a realization of high dimensional precision and productivity.*
- ▶ *Brand new slide guide design.*
- ▶ *Forced oil lubrication system.*
- ▶ *Eco-friendly design.*
- ▶ *Increased Slide Right-Left dimension*
- ▶ *Large, easy-to-use touchscreen display.*

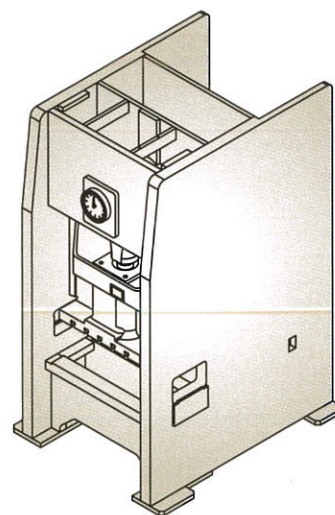
無開口設計實現了高次元的加工精度和生產性

前後機架比率相同的一體高強度機架由於沒有開口且均等的延伸，得使沖床動態的平行精度提昇。機架機構設計精巧，除了可防止變形外，在機械配置上亦考量節省空間的理念。此外，提昇精密的沖壓部位，延長模具的命。

The Design Without Opening is a realization of high dimensional precision and productivity

Rigid frame structural design provides ultra accuracy and increases productivity.

The rigid, unitized steel frame provides a solid base to resist deflection and ensures accurate stampings and longer dies lifespan. With the fine designed mechanism and structure reallocation, it not only reduces installation space but also prevents the deformation.

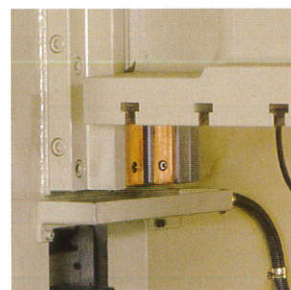


滑軌全新設計

滑軌設置於滑塊前後方向的中心，沖床藉由引導滑塊運轉的所有範圍來提昇前後、左右方向的偏心負荷及動態的精度，有助於延長模具的壽命。

Brand new slide guide design

The slide guide is located in the center of the slide block in front and rear directions. The press enhances the front /rear and left/right centrifugal loads and dynamic precision within range of the slide block in motion. It also prolongs the life span of the mold.



採用強制自動循環潤滑方式

整台沖床驅動部位及滑軌作動部位，皆採強制自動循環潤滑裝置，可提昇沖床零件組裝精密度及可抑制機架變形，實現高精密加工。

Forced oil lubrication system

Forced, automated oil lubrication system on the crank bearings and in slide guide area enhances the operation; restrains the frame deformation and fulfills the demand of precise processing.



符合環境新趨勢的設計

在加工成形中，減少噪音、振動、油脂、能源..等是塑造“適合人類居住環境”的重要課題。

此系列採用高剛性機架可減少加工噪音和振動，而採用變頻馬達則可達到省能源和低噪音的目地。此外，採用強制自動循環潤滑方式可降低工廠的油脂用量及減少廢棄油脂，改善作業環境。

Eco-friendly design

By utilizing the rigid fabricated steel framing and the inverter motor, this series successfully reduces undesirable noise and vibration, and requires less energy. As well, the forced oil lubrication system substantially decreases the oil consumption and therefore it generates less waste oil and improves the working environment.

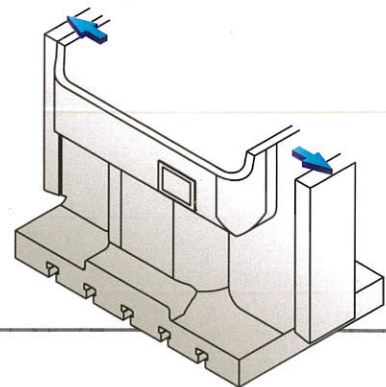


加大滑塊左右尺寸

由於生產者的需求將滑塊左右尺寸加大，可增加模具工程數和進行高附加價值加工，讓製品產能及精度更往上提昇。

Increased Slide Right-Left dimension

In response to production requirements to increase the number of operation, the enlarged slide area can accommodate larger tooling to work more efficiently and more accurately.



考量作業性、安全性的作業面板

大型螢幕的觸控面板畫面，功能設定方便，螢幕功能顯示容易看且容易操作。此外，亦可依客戶需求增加各種功能，有助於生產性及管理性的提升。

Large, easy-to-use touchscreen display.

The control panel with a large touchscreen allows easy access to setup functions and is easy to use. Extra functions can be customized and specified to meet customer requirements and promote the efficiency of production and management.

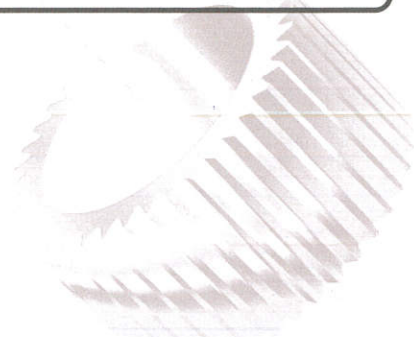


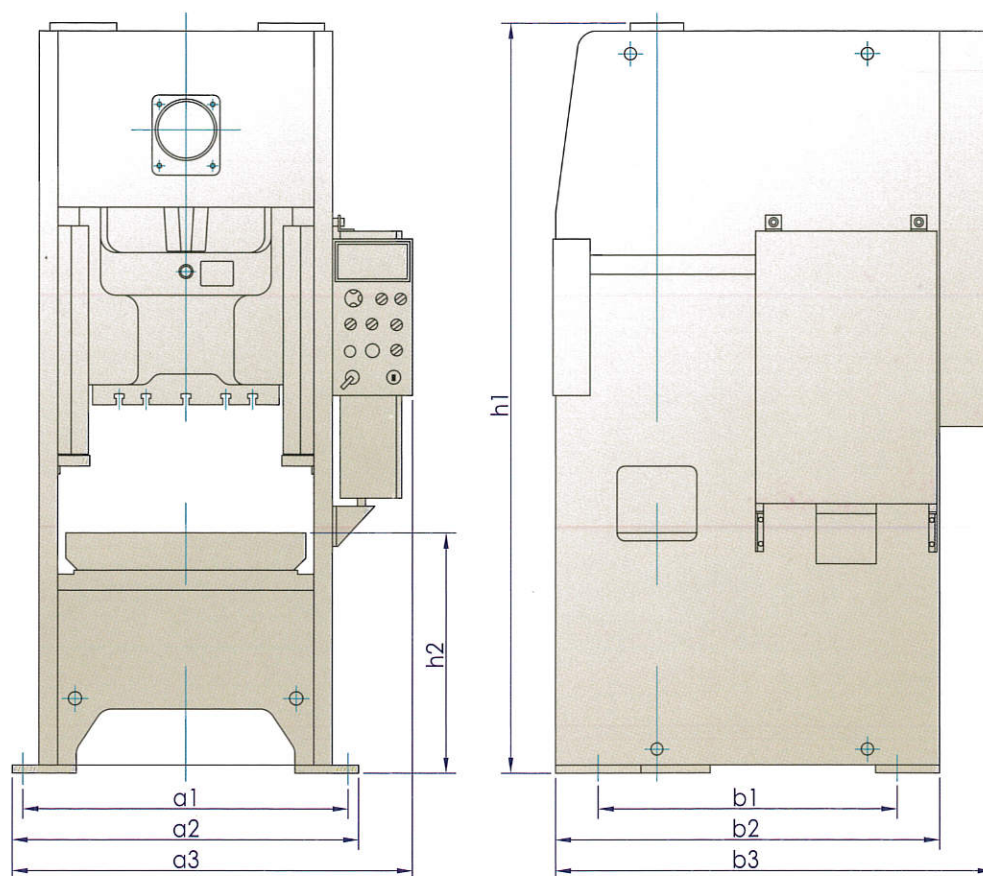
型式 Model		LH1-80					LH1-110				
		(S)	(1)	(1LL)	(2)	(2LL)	(S)	(1)	(1LL)	(2)	(2LL)
形式 Style		曲軸 Crank	曲軸 Crank	連桿 Link	曲軸 Crank	連桿 Link	曲軸 Crank	曲軸 Crank	連桿 Link	曲軸 Crank	連桿 Link
能力 Capacity	ton	80					110				
能力發生點 Tonnage rating point	mm	3.2	5	5	5	5	3.2	5	5	5	5
行程 Stroke length	mm	60	100	100	160	160	70	110	110	180	180
每分鐘行程數 Stroke per minute	spm	75~150	55~125	55~110	40~80	40~75	65~135	50~110	50~100	35~70	35~65
模高 Die height	mm	300			320		320			350	
滑塊調整量 Slide adjustment	mm	80					90				
滑塊面積 (左右x前後) Slide area (LRxFB)	mm	700 x 460					800 x 520				
副盤面積 (左右x前後) Bolster area (LRxFB)	mm	900 x 460			900 x 600		1000 x 520			1100 x 680	
側邊開口 (注1)* Side open	mm	300 x 270 (220)			440 x 300 (250)		340 x 270 (250)			500 x 300 (280)	
副盤厚度 Bolster thickness	mm	140					155				
主馬達 Main motor	HP*P	10 HP*4P					15 HP*4P				
氣壓 Required air pressure	kg/ cm²	5					5				

型式 Model		LH1-160					LH1-200				
		(S)	(1)	(1LL)	(2)	(2LL)	(S)	(1)	(1LL)	(2)	(2LL)
形式 Style		曲軸 Crank	曲軸 Crank	連桿 Link	曲軸 Crank	連桿 Link	曲軸 Crank	曲軸 Crank	連桿 Link	曲軸 Crank	連桿 Link
能力 Capacity	ton	160					200				
能力發生點 Tonnage rating point	mm	4	6	6	6	6	4	6	6	6	6
行程 Stroke length	mm	80	130	130	200	200	95	160	160	250	250
每分鐘行程數 Stroke per minute	spm	55~115	40~95	40~85	30~60	30~55	45~95	35~80	35~70	25~50	25~45
模高 Die height	mm	350			400		410			450	
滑塊調整量 Slide adjustment	mm	100					110				
滑塊面積 (左右x前後) Slide area (LRxFB)	mm	900 x 580					1000 x 650				
副盤面積 (左右x前後) Bolster area (LRxFB)	mm	1150 x 600			1150 x 760		1250 x 680			1250 x 840	
側邊開口 (注1)* Side open	mm	380 x 330 (280)			560 x 380 (330)		420 x 380 (330)			620 x 420 (370)	
副盤厚度 Bolster thickness	mm	165					180				
主馬達 Main motor	HP*P	15 HP*4P					20HP*4P				
氣壓 Required air pressure	kg/ cm ²	5					5				

*注1()內的尺寸是從副盤上面測量的尺寸/

型式 Model		SCY-80	SCY-110	SCY-160	SCY-200
能力 Capacity(5kg/cm ²)	ton	6.3	8.0	10.0	14.0
行程 Stroke length	mm	70	80	80	100
氣墊面積 (左右x前後) Pad area (LRxFB)	mm	410 x 260	480 x 300	540 x 340	640 x 440



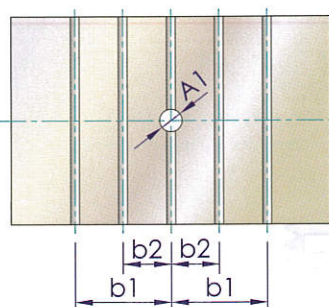


		地基螺絲位置	機架佔地面積	機械最大尺寸	機架總高度	工作高度
		Position of anchor bolt	Floor space required	Max. meas- urement	Press overall height	Bolster sur- face height
		a1xb1	a2xb2	a3xb3	h1	h2
LH1-80	(S)	1220x1100	1300x1420	1500x1640	2760	900
	(1)					
	(1LL)					
	(2)	1220x1100	1300x1420	1500x1640	2810	
	(2LL)					
LH1-110	(S)	1340x1220	1460x1580	1630x1780	2960	900
	(1)					
	(1LL)					
	(2)	1340x1220	1460x1580	1630x1780	3025	
	(2LL)					
LH1-160	(S)	1560x1390	1680x1780	1860x2030	3225	900
	(1)					
	(1LL)					
	(2)	1560x1390	1680x1780	1860x2030	3310	
	(2LL)					
LH1-200	(S)	1655x1540	1735x1950	1950x2200	3710	1000
	(1)					
	(1LL)					
	(2)	1655x1540	1735x1950	1950x2200	3795	
	(2LL)					

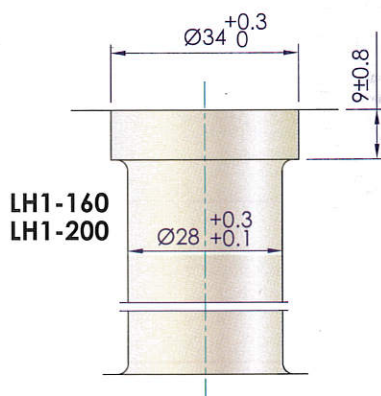
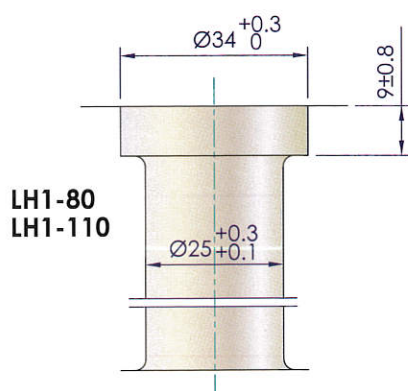
滑塊面積尺寸 Dimension of slide area

		LH1-80	LH1-110	LH1-160	LH1-200
滑塊面積(左右x前後) Slide area (LRxFB)	(S) (1) (1LL) (2) (2LL)	700x460	800x520	900x580	1000x650
T型槽尺寸 Dimension of T slots	尺寸 Dimension	22	22	28	28
	T型槽數 Number of T slots	5	5	5	5
滑塊標準尺寸 Dimension of slide	A1	Ø50	Ø70	Ø70	Ø70
	b1	250	300	300	300
	b2	150	150	150	150

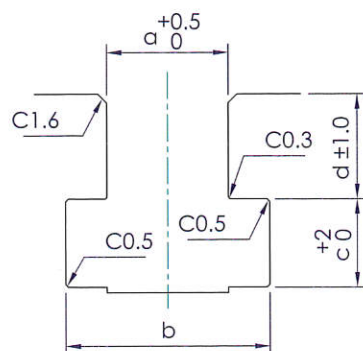
LH1-80
LH1-110
LH1-160
LH1-200



氣墊銷孔 Cushion pin hole

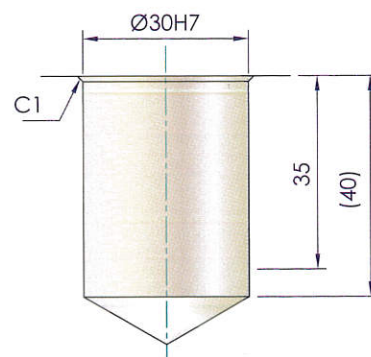


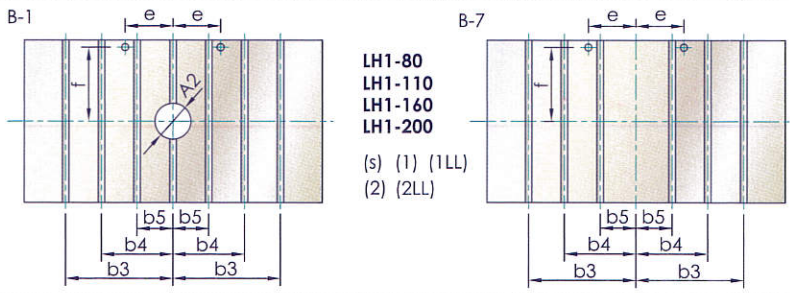
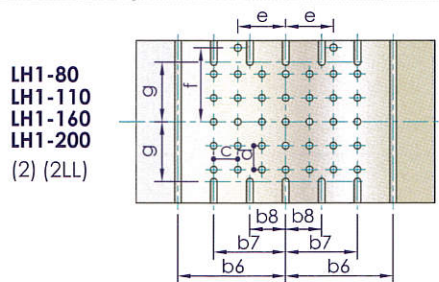
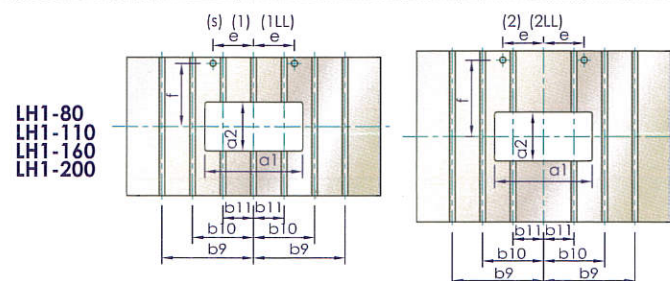
T型槽尺寸 Dimensions of slot



Symbol	Number	22	28
a		22	28
b		37 ⁺³ ₀	46 ⁺⁴ ₀
c		16	20
d		24	28
r		2	2
Applied bolt		M20	M24

**定位銷孔尺寸
Dimensions of positioning pin**



		LH1-80	LH1-110	LH1-160	LH1-200		
副盤面積 (左右x前後) Bolster area(LRxFB)	(S) (1) (1LL)	900x460	1000x520	1150x600	1250x680		
	(2) (2LL)	900x600	1000x680	1150x760	1250x840		
T型槽尺寸 Dimension of T slots		22	22	28	28		
副盤標準型式 (Bolster standard model)	B-1 B-7	T型槽數 Number of T solts	5	5	5	7	
		A2	Ø150	Ø150	Ø150	Ø200	
		b3	--	--	--	450	
		b4	250	300	300	300	
		b5	150	150	150	150	
							
	B-11	T型槽數 Number of T solts	5	5	5	7	
		氣墊銷孔 Cushion pin hole	24pcs.(Ø25)	24pcs.(Ø25)	24pcs.(Ø28)	35pcs.(Ø28)	
		cx	75x75	90x90	100x100	100x100	
		b6	--	--	--	450	
		b7	250	300	300	300	
		b8	150	150	150	150	
		g	150	180	200	250	
							
	B-21	T型槽數 Number of T solts	5	5	5	7	
		a1xa2	360x180	400x200	440x220	480x240	
		b9	--	--	--	450	
		b10	250	300	300	300	
		b11	150	150	150	150	
							
定位銷位置 ()內用於(2),(2LL) Positioning pin () for(2),(2LL)		e	200	200	200	200	
		f	200(250)	230(300)	260(350)	310(375)	

標準配件Standard Equipment

1. 變頻馬達Inverter motor
2. 濕式離合器裝置 Wet clutch
3. 電動滑塊調整裝置 Electrical die height adjusting device
4. 油壓式超負載保護裝置 Hydraulic overload protection system
5. 強制循環潤滑裝置Automatic grease lubrication system
6. 電子式曲軸角度顯示器Crank angle indicator
7. 數字型模高指示器 (單位0.1mm)Die height indicator
8. 移動式操作台Operator T-stand
9. 誤送檢知插座附接頭2組Miss-feed detector socket
10. 空氣源接頭1組Air outlet
11. 氣壓噴射器1組Air ejector
12. 操作說明書一份 Maintenance tool

選擇性配件Optional Equipment

1. 模具氣墊Die cushion
2. 光電安全裝置Photo electric safety device
3. 快速換模裝置Quick die change device
4. 防震機械腳Anti vibration mounts
5. 模具照明燈Die light device
6. 荷重監示裝置Tonnage monitor (2 or 4 channel)
7. 其它 other



www.shingtai.com

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