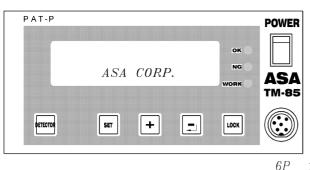
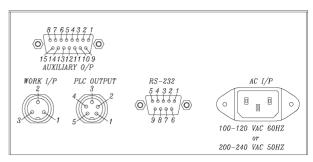
ASA TM-85 螺絲鎖付數位化管理系統操作說明書







適用機種: ASA-8500.9000系列

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- 1. 模組刪除方法:
- (1)電源 ON/OFF 開闢處於 OFF 狀態
- (2)同時按住団和□鍵,再啟動電源(即按 ON/OFF 鍵)約 3 秒鐘,當液晶顯示板已有顯示出現並聽見嗶一聲後手放開,此時所有 模雜記憶即被删除"DELETE".
- 2. LOCK 鍵功能:按下 LOCK 鍵則控制器輸入被鎖定,但輸出不受影響,可防止暫停使用時因外界不當操作起子,而影響紀錄 的直實性.

3. 響聲分類: 單件工件鎖付完成:嗶一聲

單件工件鎖付滑牙或鎖付異常:嗶-嗶-嗶急促短聲三聲

單件工件鎖螺絲完成數未達設定數即放行:嗶一聲長聲[按 → 後方可解除]

鎖螺絲完成數到達預設鎖螺絲數:嗶-嗶-嗶三聲

預設 CYCLE TIME 時間已到達而尚未完成該次鎮付動作:嗶---嗶間斷長聲[按 ← 後方可解除]

5. 不正常顯示處理:當產生亂碼或不規則顯示時將本機電源關閉後重新開機即可恢復正常

6.WORK I/P 接線方式:當 WORK 功能為與生產線連線時,其 I/P 連接頭 A(3P)接點為 PIN 1,PIN 3 與外接滾輪開關接點連接

操作方法

- 1. 以 5P 或 6P 連接線將起子與控制器連接 2. 插上電源(注意工作電壓 110V 或 220V) 3.打開電源開關
- 4. 等待約3秒鐘後顯示畫面(1)
- 5.按 SET 鍵進入密碼輸入畫面,如畫面(3)
- 6. 輸入密碼 📗 📗 📗 SET DETECTOR 後 進入畫面(4),若輸入密碼錯誤,會重回畫面(3)
- 7.畫面(4)呼叫既存之儲存檔案,按₩鍵找尋 所要呼叫模組編號,再按₩鍵確認,(除非 有新機種或變更製程才需再重新設定)
- 8.畫面(5)欲將目前操作中的記數記憶,則 先按冊鍵找尋所要儲存模組編號,再按 ← 鍵確認,或當新增,修改,參數設定完成後, 選擇欲儲存檔案位置編號,再按 ← → 鍵確 認即完成,並重回畫面(2)
- 9.畫面(6)每要設定新的模組或參數,則需 先清除目前畫面模組下已被記數的記憶, 才不會將目前的記數儲存到新模組
- 10.畫面(7)設定取樣螺絲數,再按 **SET** 鍵確 認進入下一畫面(8)
- 11.畫面(8)對被鎖工件進行實際鎖螺絲動作,當鎖付扭力到達時,起子停止,此時螢幕會出現剛剛鎖螺絲所測得時間,並要你確認此數值是否為有效值,若是有效的,則按□鍵(若是無效的,則按□鍵),接著繼續做取樣鎖螺絲動作,當到達(7)所設定數量時,則會跳至下一畫面(9)
- 12.畫面(9)~(15)步驟則按所需求功能依序 做參數設定,功能及操作方式請參考"各 畫面功能說明及操作方式"說明,每設 定完成後按 SET 鍵進入下一畫面
- 13.若要再做下一組設定,則依上述 5~12 步 驟設定再重新設定即可.
- 14.若不再設定,則按 DETECTOR 離開設 定狀態,回到工作畫面如(1),若再按一 次 DETECTOR 可進入工作畫面(2)
- 15. WORK 功能:

15-1:與生產線連線:

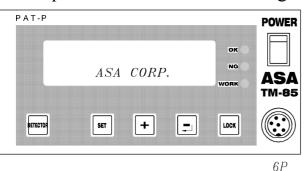
當要有監控功能時,需藉 WORK I/P 插座上(在背面)插入一連接頭 A(附屬 品)及滾輪開關(外接)將生產線定位檢 知信號傳導至控制器,才有監控功能,此 時面板上 WORK 燈亮·當工件到達鎖 付位置後,若螺絲鎖付未達到設定值時 (即鎖付扭力,深度,數量)就將工件放行, 則本機將發出警告聲,通知作業者注意, 假使是工件不良,無法達到設定值,則可 於放行後按↓↓與取消警告音,重新進入 待命狀態,而此放行工件數量將 錄於(16)書面,以利管理者管理.

15-2:獨立工作站使用:

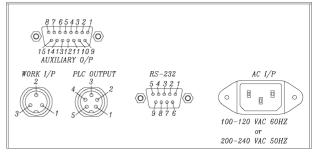
當要操作時必須插入一連接頭 B(附屬 品)於 WORK I/P 插座上(在背面),此時 面板上 WORK 燈亮即表有監控功能

16. 設定完成後,只要操作電動起子即可做 螺絲鎖付動作計數與品質控制

Operation Manual Of ASA Digitalized Management System for screw tightening







Available models: ASA-8500,9000 Series

Screen	Screen Indication	Discription and Function of Each Display Screen	
1.	+ OK : 0 0/1 + NG : 0 0/1	In the screw tightening operation, the first display screen indicates the accumulation numbers of OK and NG of screw tightening for the finished product	T
2.	STD: 0.00 s +10% 1 DET: 0.00 s -10%	In the screw tightening operation, the second display indicates the set standard screw tightened time, tolerance and actual screw tightening time. "1" on the upper right stands for the mold code which was called out for operation.	
3.	SETTING MODE PASSWORD: <u>+ + SET DET</u>	After entering the mold setting screen, it permits to perform 14 tasks, such as sampling time, memory and save or to call out a specified program.]
4.	1-1 MEMO RECALL 1:0.00sec O pcs	Mold calling out setting (the maximum is 10 settings) Press to continue the selection, press set to shift to the next display screen.	
5.	1-2 MEMO SAVE 1:0.00sec O pcs	Mold saving setting (the maximum is 10 settings) Press to continue the selection, press set set	
6.	2 CLEAR ALL CNT (+): YES (-): NO	Mold clear setting (OK \ NG \ PASS counted datum will be cleared) Press to clear the counting, press not to clear, press SET to shift to the next display screen.	
7.	3-1 SAMPLE TIMES 10	Setting screw tightening time for number of sampling in the new work piece (the maximum sampling number is 99 pieces.) Press to increment, press to decrement, press Et o shift to the next display screen.	
8.	3-2 SAMPLES 0/10 <u>0.0 0</u> S (OK:+ NG: -)	Display the actual screw tightening time for sampling and total of sampling Press do confirm the setting, press do delete, press SET to shift to the next display screen.]
9.	4-1 RANGE RATE +10%	Setting up the upper limit of ratio for sampling screw tightened average time, the maximum permits increment ratio is up to 99%. Press \(\frac{1}{2}\) to increment, press \(\frac{1}{2}\) to decrement, press \(\frac{\subset}{2}\) to confirm and shift to the next display screen.	
10.	4-2 RANGE RATE - 10%	Setting up the lower limit of ratio for sampling screw tightened average time, the maximum decrement ratio time is down to 1%. Press \(\frac{1}{2}\) to increment, press \(\frac{1}{2}\) to confirm and shift to the next display screen.	
11.	5 PCS/UNIT 1	Setting the tightening screw for one single work piece. The maximum is 99 screws. Press to increment, press to decrement, press SET to confirm and shift to the next display screen.	
12.	6 OK CNT DIR	Selecting the statistics of total qualified tightened screws (work pieces) (increment/decrement) Press \(\frac{1}{2}\) to illustrate the positive statistics, press \(\frac{1}{2}\) to confirm and shift to the next display screen.	
13.	7 CYCLE TIME 0.0	It permits to preset the total time required for finishing one block operation. When the preset time is up, but the work is not finished yet, it activates an alarm to notify the operator to reset the time, the preset time ranges from 0(no limit) to 99.9 seconds. Press \(\frac{1}{2}\) to increment time, press \(\frac{1}{2}\) to decrement time, press \(\frac{1}{2}\) to confirm and shift to the next display screen.	
14.	8-1 SET +OK LMT 60000 (when #6 was set ''+'')	In Item 12 above, when ∃ is pressed, the total qualified tightened screws statistics is set in the incremental mode. When the total reaches the set quantity, it activates an alarm (long sound) to notify the operator. The maximum is 60000 screws. Press ∃ to increment, press ☐ to decrement, press SET to confirm and shift to the next display screen.	
	8-1 SET -OK CNT 60000 (when #6 was set "-")	In Item 12 above, when ☐ is pressed, the total qualified tightened screws statistics is set in the decremented mode. When it comes to zero, it activates an alarm (long sound) to notify the operator. The maximum is 60000 screws. Press ☐ to increment, press ☐ to decrement, press SET to confirm and shift to the next display screen.	
15.	8-2 ADJ STD TMR 0.00sec	Compensate the sample screw tightened average time, the maximum is 9.99 sec. Press to increment time, press to decrement time, press SET to confirm and shift to the next display screen.	
16.	8-3 ADJ PASS CNT	In case that the work piece is of poor quality, there is no way to complete the screw tightening operation, but it allows a forced release. The maximum forced release is 60000 units	

- Method to delete the mold code
 - Turn the power switch to OFF position
 - Press and hold H simultaneously, turn on the power switch for 3 seconds, when the LCD displays and a "buzz" sound is heard, release hands, all mold codes are hereby deleted.
- Lock Button: Press LOCK button to lock up the input from the control, but not influence the output. This way would prevent losing the
- authenticity of parameters interfered by improper operation of screwdriver. Classification of alarm sound:

Completing screw tightening operation on one single work piece, one long buzzes. Skid thread or abnormal tightening on one single work piece, three short buzzes.

Failure to tighten but force release is required. One long buzz continues until the is pressed.

The screw tightening mission is completed, three short buzzes

The cycle time is up, the screw tightening is not completed yet, an intermittent buzzes continues until the

- 4. Signal output: RS 232 outputs the totals of OK screws and NG screws(pin no.2 for Tx.no.3 for Rx.no.7 for com). PLC output transmits the tightened OK screws signal(pin no.2,5), tightened OK total screw signal(pin no.1,5) and tightened NG screws
- signal(pin no.4,5) no contact voltage signal.

 It will be counted into "NG" tank when operated on reverse function
- Disposition of abnormal display: When it displays gabbles and irregularities, turn off the power and turn it on again, it will resume
- WORK I/P Connection: When lining with the production line, the 3P connector A connects with pin 1 and pin 3 linking to the roller

- **Operation Method** Connect 5P or 6P cable between the screwdriver
- and the controller. Plug up the power supply (pay attention to the working voltage, 110V or 220V.)

1.

- Turn on the power switch.
 The display screen (1) will appear after 3 seconds
- Press SET to enter password setting screen (3)
- Key in the password + + SET DETECTOR to enter another display screen (4). If password keyed in is wrong, it automatically returns to the display screen (3).
- In the display screen (4), call out the files from the storage, press to search the stored mold code, press to confirm the selection. (It requires no resetting unless for the new model or process
- Now in display screen (5). If you want it to memorize the count, press to select the mold code first, then press to confirm and save them. When there are new additions, modifications, new parameters setting, select the file number and press to confirm and return to display screen (2).
- The display screen (6) is for clearing old count (OK · NG · PASS) datum before new mold or new parameters were set. The old settings and parameters have to be entirely cleared up to avert the mixing new parameters with old count
- The display screen (7) is to set the sample screw number. Press SET to enter the display screen (8).
- The display screen (8) shows the process of tightening screw operation. While the tightened torque reaches the set torque, the screwdriver stops turning, the screen display the measured time obtained for tightening the screw and ask you to confirm whether the time value is effective or not. If it is effective, you press \(\frac{1}{2} \) to acknowledge; if not, press to continue operation. When the screws as specified in screen (7) are completed, it skips to the next display screen (9).
- The procedures illustrated in the display screens (9) through (15) are for parameters setting, please refer to the "Description and Function of Each Display Screen." After every setting, press SET to shift to he next display screen.
- 13. If it requires resetting, please repeat the procedures stated in Sections 5 12.
- 14. If it requires no setting at all, press DETECTOR to leave the setting mode and return to screen (1), press DETECTOR once more to enter the work
 - Work function
- 15-1: Linking with the production line

For monitoring purpose, plug the 3P connector A (open type, accessory) into the socket WORK I/P on the back and link the roller switch for transmitting the sensed position signal to the controller and the WORK indication lamp will light on the control panel. When the work piece arrives at the lock position, if the screw tighting operation fails to fulfill the set parameters (such as tightened torque, depth and quantity), the machine will activate an alarm to notify the

In the event that the work piece has not now to achieve the set parameter, the operator is in the position to press 🗗 to make a force release and the eliminate the alarm, rendering the machine in readiness. The forced release quantity will be display on the screen (16) for easy management.

: Used as an Independent Work Station

It is necessary to plug the 3P connector B (close type, accessory) into the socket WOTRK I/P on the back, and the WORK indication lamp will light; it implies the monitoring function is on.

Upon completion of setting, simply operate the electric screwdriver to perform the screw tightening operation; the machine will carry out the counting and quality assurance.