

S-320

光碟串架數片機



在光碟片生產過程的每個階段，光碟數量不正確計數會造成很大的困擾，這關係著生產成本並且讓生管的能力及品質受到質疑，甚至造成生產線很大的損失。

微映公司 S-320 光碟串架數片機是針對光碟製造廠及軟體公司精確且快速計數各種串架上的光碟片，而設計的高品質自動化數片機。

S-320 是壹部具有人工智慧、學習能力及語音導引系統的二代光碟串架數片機，S-320 提供了一個最有效率且節省成本的計數方法，避免人工計數法、秤重法及高度比較法等不正確的計數方法所造成之損失及品管缺口。

藉由使用 S-320 光碟串架數片機讓您在每個製造過程當中輕易地計數以掌握正確的數量，不但避免部門之間的爭議，並且讓您把包裝好的光碟片深具信心地運送到客戶手中，不會受到客戶抱怨。

這部可單機作業的機器上每一個設計細節，均為了提供使用者最大的操作自由度，以取得最佳的成本效益，徹底消除您在製造過程當中所面臨的計數問題。

使用 S-320 的優勢及好處

- 決定製造過程中每個階段的正確產量。
- 精確地找到並追蹤光碟片的損耗是發生在製造過程之中的哪個程序。
- 經由語音導引系統，非技術人員的使用者不需額外的訓練亦可由操作面板輕易的設定數片程式並完全操作這部機器。
- 在選用的個人電腦主機，可設計一個監控程式，讓螢幕顯示目前產量的詳細工作狀態，包括'一般數片模式'及'大量數片模式'。
- 藉由電腦連線，資料可依使用者所定義的資料庫格式被儲存在資料庫。
- 人性化的設計可降低因操作人員疲倦所引起的錯誤。

S-320 基本規格

- 機器淨重量：13.5 公斤
- 含包裝重量：16.2 公斤
- 機器尺寸：30.3 x 25.6 x 52.5 公分
- 包裝尺寸：40 x 43 x 69 公分
- 電力需求：
98~125/205~250VAC 50/60Hz

S-320 特徵

- S-320 是壹部極為**精確且快速**的二代光碟串架數片機。
- 計數**精確度 99.999%**。
- 計數 200 片光碟只要 1 秒鐘; **50 片光碟 0.3 秒內數完**，自動偵測片子多寡並切換計數時間。
- 單次最大數片量 **230 片**
- 具**人工智慧自動校正**能力。
- 可依據各光碟廠不同片子的**厚薄及扭曲**等特性，**自動分析及修正數片參數**，以正確計數。
- 可選擇多國語音系統，計數結果語音說明，數位音量控制。
- 語音系統**正確且快速**的提供各種訊息及計數結果，操作人員可**長時間作業不易疲倦**。
- 可設定蜂鳴器開關以**避免吵雜**。
- **大型紅色及綠色指示燈**，顯示計數結果是否符合預設值。
- 可設定為'**免手動**'自動偵測計數，不需人工操作即可自動開始正確數片。
- 可設定為'**一般數片模式**'及'**大量數片模式**'兩種操作方式。
- 可針對不同的光碟片及工作需求，來校正、設定及**儲存 9 組特別的數片程式及參數**。
- 經由**語音導引系統**，使用者可由操作面板輕易的設定數片程式。
- 可由程式設定減去包裝中的**空白片**之數量。
- **自動濾除包裝中的薄紙墊片**之數量，上下各一張在透明空白片之上的防塵紙不影響數片。
- 提供**印表機介面**供 RS-232 標籤印表機使用。
- 提供 RS-232 介面，供個人電腦主機**自動化連線**。
- **大型 LCD**(字體高 8.1mm×寬 4.8mm 2 行×16 字) 清楚的顯示各種訊息。
- 電源啟動時，完整的開機自我測試系統確保機器性能。
- 採用最精準的**長壽命固態雷射掃描系統**配合**自動校正**功能，永遠不需人工調校。
- 暫停使用 5 分鐘之後，雷射系統**自動關閉**。
- 採用快速穩定的**雙 CPU** 電腦系統設計，計數速度比一般數片機**快 3 倍**，避免等待計數的時間浪費。
- 自動儲存完整的操作紀錄，以便追蹤管理。
- 為了確保**最穩定的品質**並提供**最好的價格**，我們以自動化生產線大量製造精密設計的 S-320，所有關鍵設計均以每批 500-3000 套為單位嚴格品管。

S-320 詳細規格

特性類別	特性描述	詳細規格	
數片特性	厚度 1.2mm 光碟片之單次最大數片量	230 片	
	數片速度	200 片	<1.0 秒
		170 片	<0.9 秒
		100 片	<0.5 秒
		50 片	<0.3 秒
	光碟片間隔距離	可自我校正	
	待測光碟片之厚薄誤差	可自我校正	
	翹曲之碟片可正確計數	正確計數	
數片精準度	穩定性	穩定精準	
	正確性	決不數錯	
	適應性	不挑片	
可計數之光碟片	厚 1.2mm 直徑 120mm 之各種圓形光碟片	可	
外觀	整體外型	封閉式	
	LCD 字體尺寸_高×寬	8.1×4.8mm	
	LCD 規格(行×字)	2×16	
自動化功能	自動數片	可設定	
	使用長壽命固態雷射	3mW Laser	
	雷射自動節電功能	閒置 5 分鐘	
	可與電腦連線	可	
	可列印標籤	可	
	可設定 0 至 9 片空白片數，並可顯示在面板上	可設定	
	選擇是否累計數片及歸零	可設定	
	上下各一張在透明空白片之上的防塵紙不影響數片	自動辨別	
	可依據各光碟廠不同片子之特性 自動分析及校正數片參數 以正確計數	自動分析及校正以取得最佳參數	
	蜂鳴器可否開關	可設定	
	有無音量控制	數位音量控制	
	計數結果有無語音說明	語音說明	
	有無語音導引	語音導引	
	多國語音發音選擇	中/英/日三種	
串架底座之相容性及可變性	白鐵串架	可	
	30mm 塑膠串架	加附件後可	
	127mm 塑膠串架	可	
塑膠墊片相容性	9 mm < 高度 < 45 mm 40mm < 直徑 < 100 mm	全部均可自動辨別	

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S-320

CD/DVD SPINDLE COUNTER



Wrongly count CD/DVD will cause lots of troubles and different problems at the various processing stage. It not only pays a great cost loss in rectifying, but also means an obvious weakness in inner management and quality assurance.

Micro Image S-320 Spindle Counter is designed to suit the extreme desire for absolutely accurate and reliable counting in CD/DVD manufacturing plants and/or software companies.

S-320 Spindle Counter is 2nd - Generation designed with Artificial Intelligence and learning capability. It offers the most significant cost-saving counting method, and, the best, eliminates whole problems happened by manual counting, weight or height measurement, etc.

S-320 Spindle Counter can easily provide you the advantages and the accuracy of counting the CD/DVD at every production stage, and eliminate the debates and argument generated between internal departments.

This dependable and ergonomically designed machine offers you the best No-Trouble operation on a continuous basis. You may get the best cost-saving by terminating whole problems caused by the wrongly counting in the past.

S-320 Advantages and Benefit

- Make sure of the counting accuracy at every crossing stage.
- Precisely locate where the discs lost
- You may easily and safely operate the machine by the Voice-Guiding-System. The workers will not need extra training.
- You may design a PC-Host Monitoring/Reporting system which may show you whole situation/information, including "Normal" and "Batch"
- The data can be saved as defined by the user through intra-net.
- The Ergonomical design effectively reduces the potential errors caused by stupid and exhausted in operation.

S-320 Specification

- Net Weight : 13.5 Kg
- Gross Weight : 16.2 Kg
- Machine Size : 30.3 x 25.6 x 52.5 cm
- Packing Size : 40 x 43 x 69 cm
- Power : 98~125 /205~250V AC
50/60 Hz

- S-320 is an extremely accurate and fast counting 2nd-Generation Designed machine.
- The accuracy of reliability is up to 99.999%. It is the best of the world.
- It takes only 1 second for counting 200 discs, 0.3 second for 50 discs. This machine will detect the height of discs automatically, and then, adjust the operation time everytime accordingly.
- Provide Artificially Intelligent automatic correction mode.
- May count and analyse the thickness or distortion of the discs. Through these, the counting parameters will automatically be fixed or modified to provide a top accurate counted result.
- Multi-Languages-Voice-System provides the languages, which may report the counting result at every stage by voice. The sound volume uses digital control.
- Multi-Languages-Voice-System provides various kinds of information and counted result. The operator can bear long time working easily.
- May set buzz on/off to prevent noisy.
- Big size red and green indicating lamps may show the result out, whether suited the presumed value.
- May set "Hand-Free" automatically detected counting mode, that will allow you correctly counting discs automatically, without manual operation when load the disc spindle on.
- Provides "Normal" or "Batch" operation modes to count the discs.
- May save 9 sets of programs and set parameters to suit the different discs and some special working requirements.
- Operator may easily set up the counting programs through Voice-Guiding-System.
- May decrease the blanks programably, which is used to protect the discs for counting or packing at upper or lower sides.
- The thin paper used together with blanks for packing will not affect the counting accuracy.
- Provide printing interface for RS-232 Label Printer.
- Provide RS-232 interface, for PC – Host Monitoring/Reporting System.
- LED Character Size (8.1 mm high x 4.8 mm width, 2 lines x 16 characters) can clearly indicate each steps and informations.
- Self-test program will run to assure the counting accuracy when power turns on.
- Endurance long-life solid-state laser accompanying with self-correction program approves the most accuracy. Manual adjustment is not required any more.
- Laser system will be turned off if there is no any operation after 5 minutes.
- Use fast and stable Double-CPU system design. Counting speed is 3 times faster than other competitors, and it can save counting time in waiting or waste.
- May automatic save whole operation
- Provide customers the best quality and price, because the most precise designed S-320 is manufactured in lot and serial auto-production line. Each lot will be 500-3000 sets at least.

S-320 Specification			
Type	Description	Specification	
Characteristics	Discs maximum, at thickness 1.2mm/pc, per time	230 pcs.	
	Counting speed	200 pcs	< 1.0 second
		170 pcs	< 0.9 second
		100 pcs	< 0.5 second
		50 pcs	< 0.3 second
	Distance between discs	Self-checking and correction	
	Thickness tolerance	Self-checking and correction	
	Distortion of discs	Accurately counting	
Accuracy of counting	Stabilization	Extremely stabilized	
	Accuracy	Never wrong	
	Fitness	Discs by any manufactures	
Disc specification	1.2 mm thick, 120 diameter max, round disc	all available	
Out contour	Shape	Covered	
	LCD Size	8.1x4.8 mm	
	LCD Dimension	16 characters x2 line	
Automation	Counting automatically	can be set	
	Long-life solid state laser	3mW Laser	
	Laser power saving function	Power off after 5 minutes without any operation	
	PC-Host intranet	Available	
	Interface for Label Printer	Available	
	LED shows 0-9 blanks	Available	
	Accumulation and/or back to zero	Available	
	Paper for dust protection with blanks	automatically verified and eliminated.	
	Automatically analyze and correct the counting parameters by the discs characteristics	Automatically analyzed and correction	
	Buzz On/Off	Available	
	Sound volume	Digital Volume Control	
	Counting result voice reported	Voice Report and Description	
	Voice-Guiding-System	Yes	
	Multi-Language Voice-Guiding-System	Yes, Chinese/English/Japanese	
Materials of Spindle and Base	Stainless spindle	Available	
	30 mm plastic spindle	Usable with special parts	
	127 mm plastic spindle	Available	
Blanks	9 mm < Height < 45 mm	All available	
	40mm < Diameter < 100 mm	Automatically identify	

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