

捲屑螺桿製造

Chip
Auger
Supplier

捲屑螺桿/減速馬達/防水橡膠

Chip Auger/ Gear Motor/ Rubber Gasket

關於甚優 About us

甚優工業有限公司成立於2003年，主要生產捲屑螺桿，為排屑設備關鍵零組件，供應國內外多家工具機、加工機設備廠商，以交貨迅速、品質優良，提供多樣的客製化製作、除屑規劃服務，提供客戶排屑解決方案的最佳夥伴。

"New Best Co., Ltd."

Established in 2003, mainly producing chip conveyors, the key component is the chip auger. We supply many domestic, foreign machine tool, and machining equipment manufacturers with fast delivery, excellent quality, and diverse customized production and chip removal planning services. We strive to be the best partner for customers in providing chip removal solutions.

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捲屑螺桿

Chip Auger

緊湊高效的切屑解決方案

採用方型螺旋式或葉片螺旋式設計，透過螺紋旋轉原理有效推進切屑，能有效輸送各種切屑，並可輕鬆安裝於各類機種，大幅節省空間。設計上考慮到易於檢修，能顯著降低維修與運輸成本，是高效排屑的理想選擇。



Compact & Efficient Chip Removal

Engineered with a chip auger square type or flight auger, the chip auger utilizes rotary screw motion to effectively transport chips.

Capable of handling various chip types, the auger integrates easily with a wide range of machine models, offering significant space savings.

Designed for easy maintenance and inspection, it helps reduce both servicing and transportation costs — making it a smart and reliable solution for efficient chip removal.



捲屑螺桿

Chip Auger

捲屑螺桿選用 Chip auger selection guide

	方形螺旋式 Chip auger square type	葉片螺旋式 Flight auger
適用鐵屑形狀 Applicable Chip Types	短屑、粗屑、細屑、不連續切屑 Short, coarse, or fine chips; discontinuous cutting	長屑、粉末屑、細屑、連續切屑 Long, powder, or fine chips; continuous cutting
適用鐵屑材質 Applicable Chip Materials	金屬屑、碳鋼、合金鋼等硬度高的金屬 Hard chips from general steel, carbon steel, alloy steel.	低碳鋼(鐵)SS400、非鐵金屬(銅、鋁)、 塑膠屑、木屑、石墨、非金屬(粉)、等 軟金屬 Soft chips from SS400, non-metallic powders, non-ferrous metals (copper, aluminum), wood, plastics, graphite.
優點 Advantages	1. 容屑量較大 Large chip capacity 2. 磨耗慢、壽命長* Low wear, long service life* 3. 適合大部分加工屑 Suitable for most chip types	1. 連續屑不易纏住 Resistant to tangling by long chips 2. 排送液體效率高 High coolant discharge efficiency 3. 重量輕 Lightweight
缺點 Disadvantages	1. 連續屑容易糾纏阻塞 Prone to clogging by stringy chips 2. 重量較重 Heavier	1. 磨耗快、壽命較短 Faster wear, shorter lifespan 2. 容屑量較小 Lower chip capacity

※捲屑螺桿之使用壽命，依加工屑的硬度不同而遞減。

The service life of the chip auger decreases depending on the hardness of the processed chips.

異物對推屑螺桿的影響 | Impact of Foreign Objects on Augers

- 小型異物偶爾掉入時，雖不影響加工，但會產生異音、造成螺桿與馬達負載增加導致損壞。
- Small foreign objects may not immediately affect machining, but can generate abnormal noise, increase load on the auger and motor, and accelerate wear or damage.
- 大型異物(如工具、夾具、工件、掉落物等)可能造成螺桿斷裂、變形、卡死與損壞。
- Large foreign objects (such as tools, jigs, workpieces, or dropped items) can cause breakage, deformation, or jamming, severely impacting chip removal performance.

捲屑螺桿

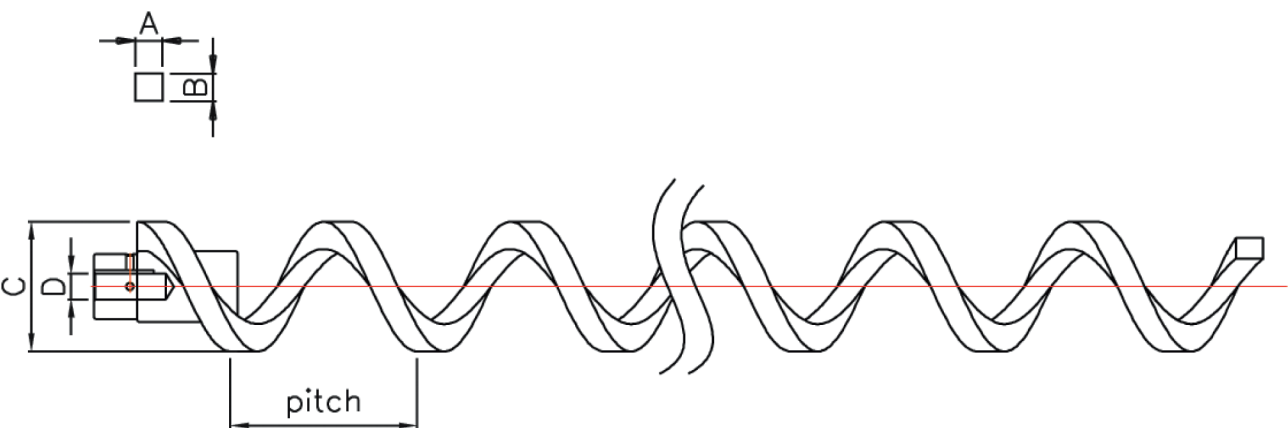
Chip Auger

方形螺旋式捲屑螺桿 Chip Auger square type

應用 Applications:

工具機產業 Applications in the Machine Tool Industry
適用各種短屑、粗屑、細屑、不連續切屑
Short, coarse, or fine chips; discontinuous cutting
金屬屑、碳鋼、合金鋼等硬金屬
Hard chips from general steel, carbon steel, alloy steel

材質 Material : SS400、S45C (19×19×ø90/16×25×ø97)
輸送量 Conveying Capacity : 0.03~0.1m³/hr



Unit : mm

TYPE. 規格AxB	C 外徑	D 馬達孔徑	Pitch 節距	Rotation R/L旋向
13×13(1/2")	70	ø18	60-80	R/L
16×16(5/8")	90	ø18.22	80-100	R/L
19×19(3/4")	80	ø18.22	85-100	R/L
19×19(3/4")	85	ø18.22.	90-100	R/L
19×19(3/4")	90	ø18.22.28.32	85-110	R/L
22×22(7/8")	90	ø18.22.28.32	90-120	R/L
16×25(5/8×1")	97	ø18.22.28.32	90-130	R/L
16×25(5/8×1")	100	ø18.22.28.32	90-140	R/L
16×32	108	ø18.22.28.32	90-145	R/L
16×32	118	ø18.22.28.32	90-145	R/L

捲屑螺桿

Chip Auger

葉片螺旋式捲屑螺桿 Flight Auger

應用 Applications:

農業機械 / 食品加工 / 化工 / 礦業 / 廢水處理 / 工具機產業*
Agricultural machinery / Food processing / Chemical industry / Mining
/ Wastewater treatment / Machine Tool Industry*

適用於輸送較輕材料:

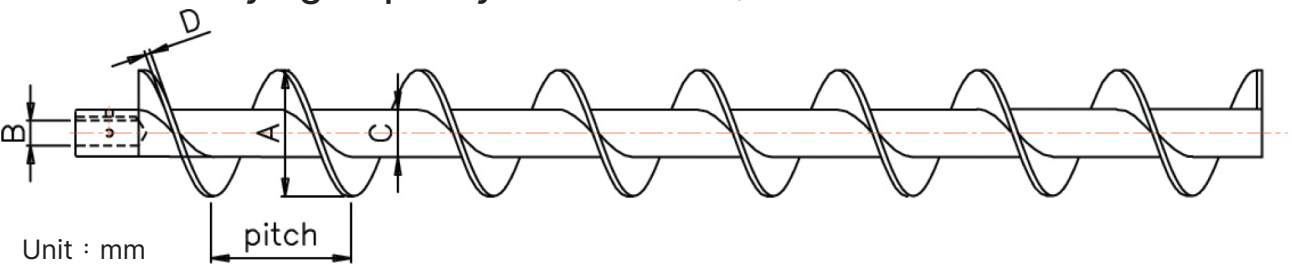
- 粉末: 水泥粉、石墨粉*
- 顆粒: 塑料顆粒、飼料、稻米、黃豆
- 切屑*: 塑料屑、鋁屑(粉)、銅屑(粉)、連續屑
- 液體: 泥漿、切削液*

Transporting lighter materials:

- Powder : Cement powder, Graphite dus
- Granules : Plastic pellets, Animal feed, Rice, Soybeans
- Chips* : Plastic chips, Aluminum and copper (chips) powder, Continuous chips
- Liquids : Slurry, coolant *

材質 Material : SS400 / SUS304

輸送量 Conveying Capacity : 0.03~0.1m³/hr



A 外徑	B 馬達孔徑	C 管外徑	D 厚度	Pitch 節距	Rotation R/L旋向
40	ø18	21.7	3	35	R/L
70	ø18	27.5	4	60-80	R/L
80	ø18.22	34	4	90-100	R/L
85	ø18.22	34	4	78	R/L
90	ø18.22	34	4	100-110	R/L
100	ø18.22	42	4	100-120	R/L
110	ø18.22.28.32	42	4	100-120	R/L
120	ø18.22.28.32	42	4	100-120	R/L
150	ø18.22.28.32	48.6	4	100-150	R/L

捲屑螺桿

Chip Auger

傳動配置

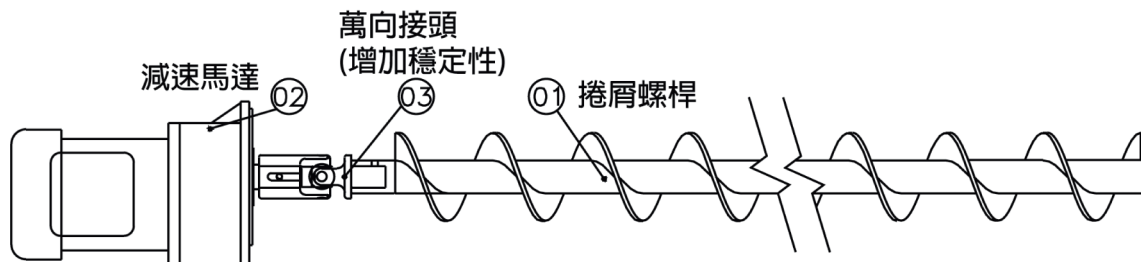
Drive Configurations

捲屑螺桿提供直接傳動與間接傳動兩種配置方式。
We offer both direct and indirect drive configurations

- 直結式傳動 (Direct Drive):

適用於大多數應用場景，以其安裝快速簡易的優勢，結構堅固穩定。

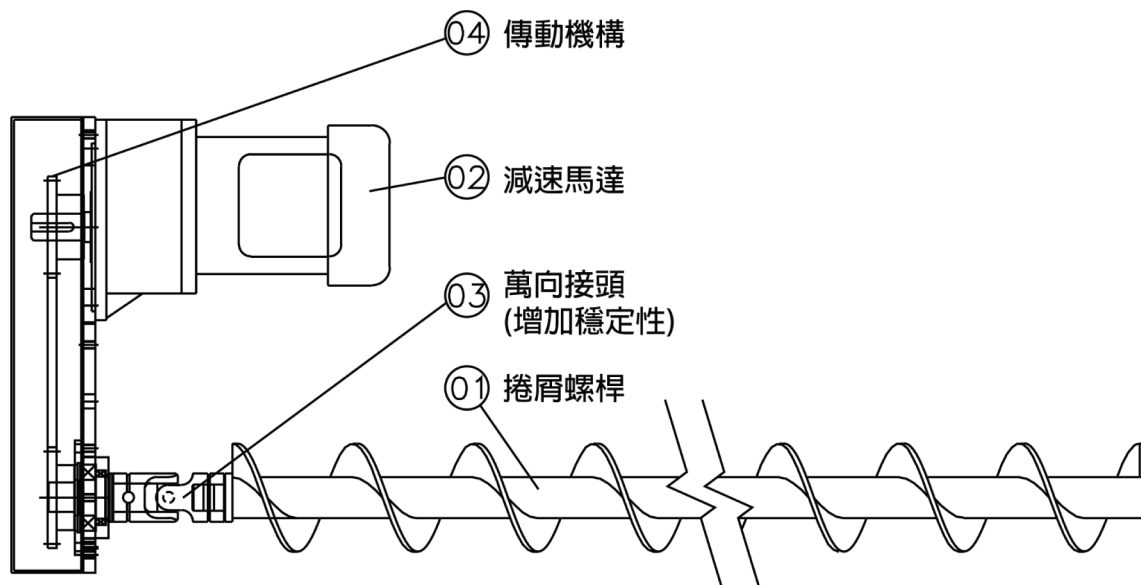
Ideal for most applications, this configuration offers quick and easy installation, ensuring stable operation and a robust structure.



- 間接式傳動 (Indirect Drive):

面臨狹小空間限制時，間接式傳動是理想選擇。它透過傳動機構的連結，能有效降低減速馬達的輸出負荷，提升系統效能。

Perfect for confined spaces, the indirect drive system connects via a transmission mechanism, effectively reducing the geared motor's output load and enhancing overall system performance.



捲屑螺桿

Chip Auger

捲屑設備使用注意事項

1. **定期清理：**捲屑設備運轉時，請定期清空集屑桶（車）中的切屑，並留意捲屑槽內是否有切屑堆積或堵塞的情形。
2. **同步運轉與適量排屑：**加工時應同步啟用捲屑設備，並確保切屑適量輸送，以避免出屑口堵塞導致捲屑螺桿或馬達損壞。切勿等到加工結束才啟動捲屑設備。
3. **分批處理過量切屑：**當床台或工作檯上堆積大量切屑時，請分批投入輸送機。避免一次性倒入過多，以免造成螺桿變形或馬達過載損壞。
4. **排除堵塞與異物：**
 - a. **切屑堵塞：**若捲屑螺桿因切屑過多而無法運轉，請立即停止設備。接著，反向運轉約3秒，使切屑回送並鬆動（避免過度擠壓）。待螺桿溝槽內的切屑清除至約1/2至2/3時，再重新啟動設備。
 - b. **異物掉落：**若有刀具、工件或其他異物掉入輸送機，請立即停止運轉，並在移除異物後再重新啟動。

Chip Conveyor Usage Guidelines

1. **Regular Cleaning:** While the conveyor is running, **regularly empty the chip collection bin or cart.** Monitor the conveyor to ensure chips are not backing up or clogging inside.
2. **Synchronized Operation & Controlled Discharge:** Always **run the chip conveyor simultaneously with the machining process.** Maintain a moderate chip flow to prevent clogging at the discharge outlet, which can damage the screw or motor. Do not wait until machining ends to start the conveyor
3. **Batch Processing for Excessive Chips:** If large amounts of chips accumulate on the machine bed or table, **feed them into the conveyor in batches.** Avoid dumping all at once, which may deform the screw or overload the motor
4. **Clearing Jams & Foreign Objects:**
 - a. If the conveyor stops due to chip buildup, stop the machine immediately. Reverse the conveyor for about 3 seconds to loosen and withdraw the chips. When chips are cleared to about **1/2 to 2/3** of the trough, you can restart operation.
 - b. **Foreign Objects:** If tools, workpieces, or any foreign objects fall into the conveyor, **stop it immediately. Remove the object before restarting.**

出屑砲管

Chip Chute

靈活配置，高效整潔

出屑砲管可選擇上仰式或直出式配置，將廢屑直接導入鐵屑車或鐵屑桶。此設計不僅節省空間，有助於維持作業環境整潔，更大幅提升廢屑回收效率。

Flexible Design, Efficient Cleanliness

Chip chute are available in upward-angled or straight configurations, allowing direct discharge into a chip cart or barrel. This space-saving design keeps the workspace tidy and greatly enhances chip collection efficiency.

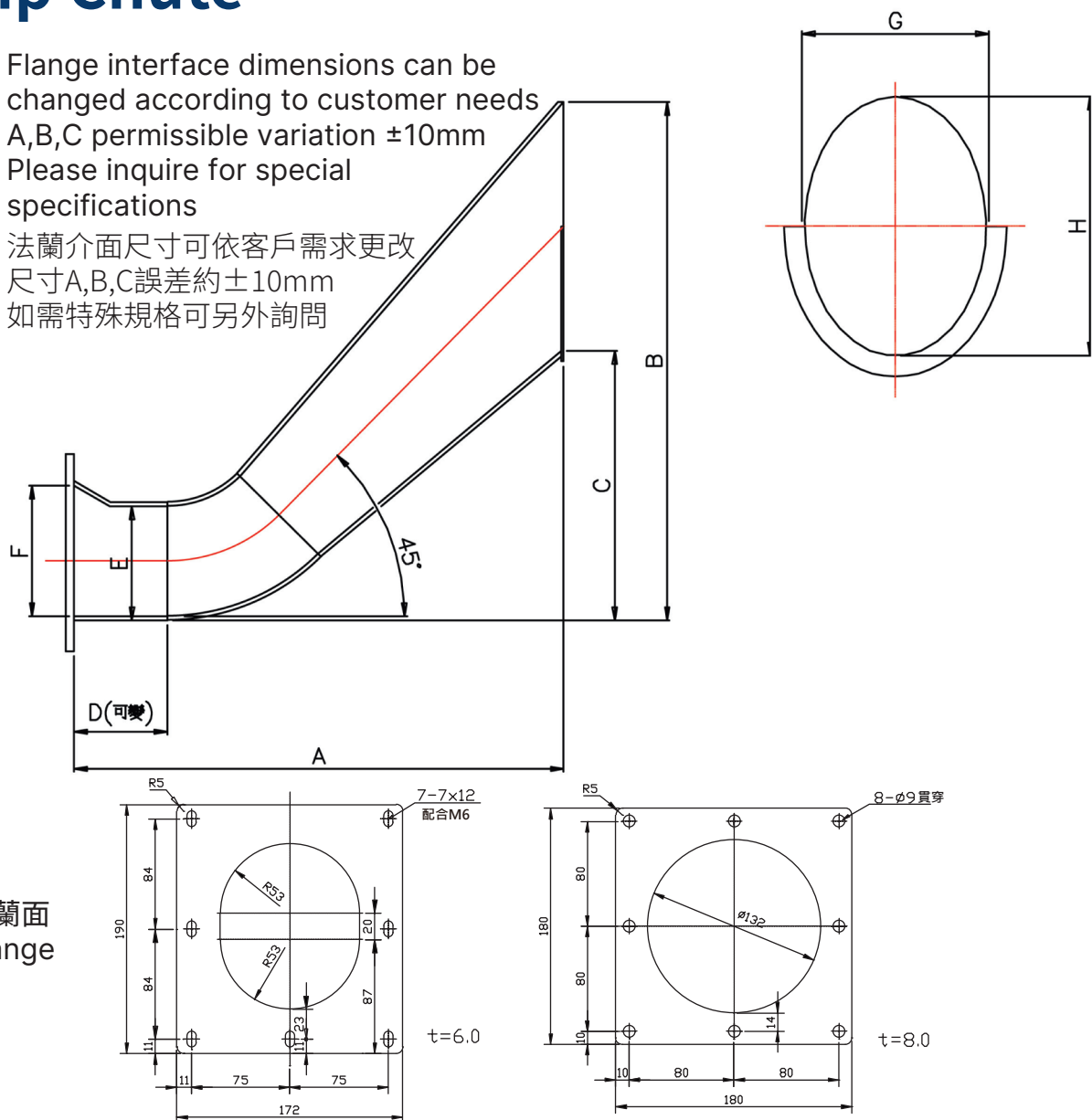


出屑砲管

Chip Chute

- 1. Flange interface dimensions can be changed according to customer needs
- 2. A,B,C permissible variation $\pm 10\text{mm}$
- 3. Please inquire for special specifications

- 1. 法蘭介面尺寸可依客戶需求更改
- 2. 尺寸A,B,C誤差約 $\pm 10\text{mm}$
- 3. 如需特殊規格可另外詢問



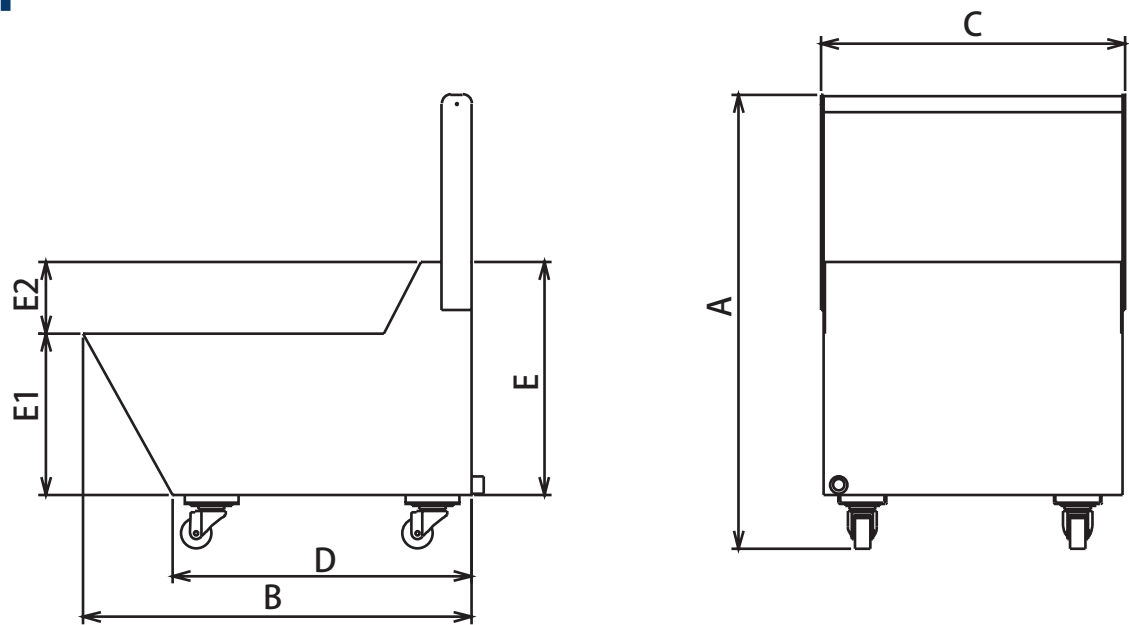
搭配標準4英吋砲管(4 inch std.)

搭配標準5英吋砲管(5 inch std.)

TYPE 砲管規格	A 總長	B 總高	C	D (可變)	E	F	G	H	Flange 法蘭面
標準4" 4 inch std.	500	500	260	90	106	126	180	240	4 inch
4" M8	580	540	300	90	106	126	180	240	4 inch
4" BKC1702	660	660	410	90	106	126	185	250	4 inch
標準5" 5 inch std.	500	500	250	90	130	-	175	250	5 inch
5"+100 5 inch +100	540	570	330	90	130	-	175	250	5 inch

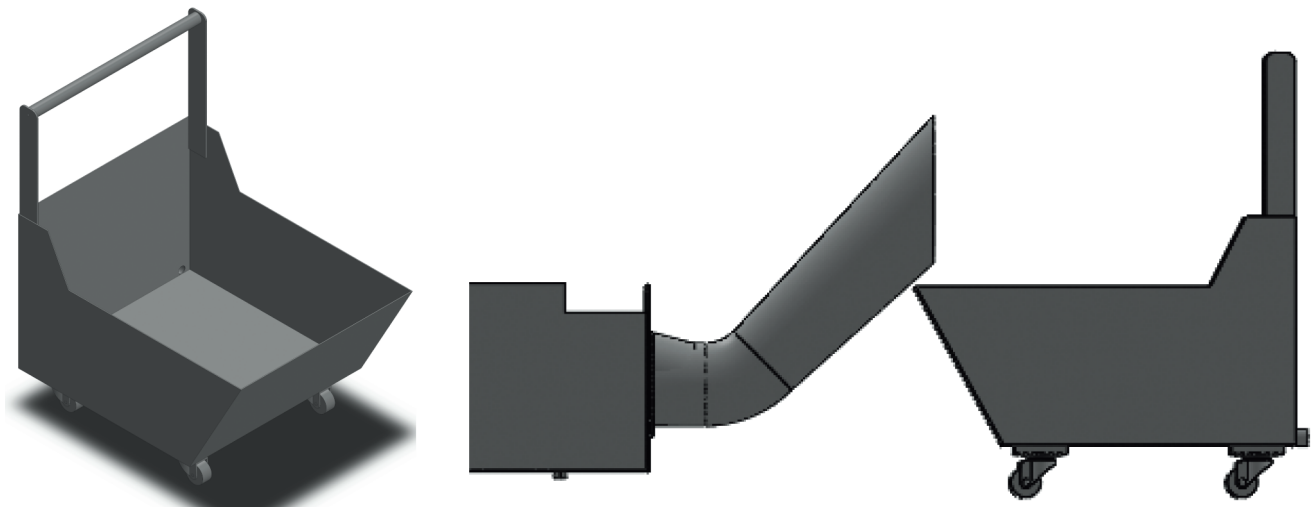
鐵屑車

Chip Cart



Unit : mm

Model 型號	A	B	C	D	E(E1/E2)	wheel 輪子	volume 容積(L)	Max. load最高荷重(kgf)
LS-1	755	650	500	500	390(270/120)	2 inch	78	120
LS-2	775	740	550	640	420	2 inch	150	120
LS-3	680	620	500	500	390(220/170)	2 inch	55	120
LS-4	700	620	500	500	220	2 inch	60	120
LS-9	930	660	750	600	-	2 inch	290	400
LS-13	970	760	720	635	750	2 inch	376	500



減速馬達

Gear Motor

HP 馬力	Shaft 馬達出力軸	Gear Ratio 齒輪減速比	Voltage 電壓	Auger 螺桿長度	Note 備註
1/8 HPx4P (0.1kW)	18(mm)	1:50/90/100	220V/ 380V	~1m	
	22(mm)	1:75/90/100			
1/4 HPx4P (0.2kW)	18(mm)	1:75/90/100		~3m	3.5m (Max)
	22(mm)	1:50/75/90/100			
1/2 HPx4P (0.4kW)	22(mm)	1:50/75/90/100		3m~6m	有搭配砲管 1/2HP以上 Chip Chute use 1/2HP
	28(mm)	1:100/120/150			
	32(mm)	1:100/120/150			
1 HPx4P (0.75kW)	28(mm)	1:100/120/150		6m~10m	
	32(mm)	1:100/120/150			
2 HPx4P (1.5kW)	40(mm)	1:120/150		10m~	

1. 特殊規格、馬達外觀尺寸資料歡迎詢問
2. 馬力選用建議僅供參考，實際馬力仍需要依客戶使用之排屑量調整
3. 馬力大小不等於扭力大小，需與齒輪箱之減速比搭配
4. 正常使用狀態下，提供產品保固期限1年（崩齒、心軸斷裂、法蘭破裂、馬達進水、電源欠相等人為作不當，不在保固範圍內）
5. 原廠有保有判斷、解釋非保固範圍的權利

※免責聲明

無論是否在保修期間內，因本公司的產品故障而使貴公司或貴公司客戶蒙受的機械損失，以及對本公司產品以外的機械造成的損失或對其他業務造成的損失賠償，均不在本公司的保修範圍內。

1. Please inquire about special specifications and motor dimension details.
2. Horsepower recommendations are for reference only. The actual required horsepower should be adjusted based on the customer's specific chip discharge volume.
3. Horsepower does not directly equate to torque. It must be considered in conjunction with the gearbox's reduction ratio.
4. We provide a one-year warranty under normal operating conditions. Please note, the warranty does not cover: stripped gears, broken shafts, fractured flanges, motor water ingress, phase loss, or damage resulting from improper human operation.
5. Our company reserves the right to determine and interpret what constitutes non-warranty coverage.

※Disclaimer

Regardless of whether the product is within its warranty period, our company is not liable for any mechanical losses incurred by your company or your customers due to product failure, nor for any compensation for damages to machinery other than our products, or for other business losses.

減速馬達

Gear Motor

Precision Gear Motor Operation

1.Attention

1.1 Install Preparation

- Please read this operation manual before using this gear motor. Any problem caused by inappropriate operation contrary with the manual, or damage caused by natural disasters, or restructure without our permission, Sesame will not hold any responsibility nor will the gear motor be covered by warranty.
- Warranty is within one year after purchase. Within warranty period, if the gear motor damage is not caused by operation error nor by natural disaster, then please send back the gear motor, we should replace the damage spare part at free of charge.
- Please ensure correct power voltage supply before installation.
- Do not bend the lead wires.
- Gear motor should be installed by trained technicians only.
- Please ground the gear motor according to the manual to prevent fire or electrical shock.
- Do not attempt to disassemble or modify the gear motor.

1.2 Installation Conditions

The conditions below must be fulfilled to avoid any damage caused on the gear motor :

- The gear motor was designed to be installed on the other facilities or applications.
- Do not expose the gear motor to flammable or corrosive gas.
- Indoor applications only. Room temperature should be maintained between -10 ~ 50°C (-10~40°C for gear motor with capacitor).
- The air humidity should not exceed 85%.
- The altitude of where the gear motor was installed should not exceed 1000 m above the sea level.
- Do not expose the gear motor to the sunshine directly. Dust and spray of oil/water is also forbidden.
- Avoid any continuous vibration or impact on the motor.
- Ensure the gear motor was installed in a well ventilated location.

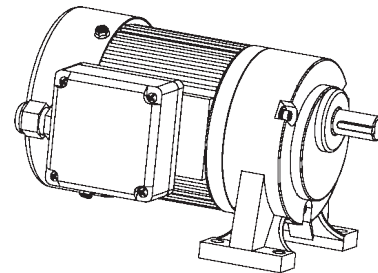
1.3 Preparation of Start up

- Please check the power supply before starting the gear motor.
- High temperature might cause the coil and bearing failed earlier.
- Do not connect the gear motor with inverter.
- Confirm the specification of capacitor before installation.
- Gear motor might burn out if wrong wiring or overloaded.

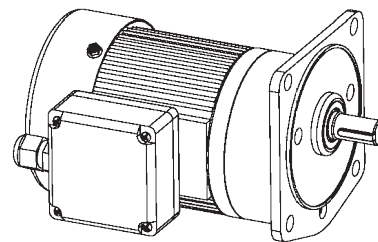
2.Loading Installation Method

The output shaft surface was precisely ground with a key, thus a keyway is necessary in the bore of the machine rotating element when mounting gear motor.

<Foot-Mount Type>



<V-Casing Type>



⚠ Attention

- Do not knock the motor by any tool during installation.
- When using our gear motor to work with other machine elements, please confirm whether they meet the specifications, regulations or restrictions required by the user.
- Please confirm whether the system, machinery or device currently in use is suitable for our products.
- Customer need to recheck our product is suitable for their current system or machinery usage.
- If customer is neglecting for rechecking, then Sesame is not responsible for any cause there might occur.
- The product must always be switched off before any work is performed on it (assembly, dismantling, maintenance, installation). The product must be disconnected from the electrical system and secured against being switched on again. All rotating parts must have come to a stop.
- Incorrectly performed electrical work can result in fatal injury! This work may only be carried out by a qualified electrician.
- The housing parts can heat up to well above 40°C. There is a danger of burns. After switching off, let the product cool down to ambient temperature.

減速馬達

Gear Motor

齒輪減速馬達操作說明

1. 注意事項

1.1 安裝前準備

- 使用前請熟讀“操作說明書”，若因人為原因、非產品本身原因或天災發生等因素而導致不良或損壞，在操作時違反本說明書所示內容而造成的損害，或未依照原本設計之使用方式及非經由本公司進行的改裝及維修所造成的故障，本公司將不承擔任何賠償責任，特此聲明，敬請見諒。
- 本公司的產品保固期間為購買產品後一年內。保固期限內，若產品因非人為因素而發生故障，客戶將產品寄回，本公司免費更換受損零件。
- 安裝前請先確定使用正確之電壓規格。
- 請勿施壓於出口線上。
- 請指定技術人員進行安裝。
- 請按照接線圖確實地進行接線，否則有可能引起火災或觸電。
- 請勿對馬達進行拆解或改造，否則有可能引起觸電或受傷。

1.2 安裝環境的限制

馬達必須依據下列條件安裝，不符合下列之安裝條件及使用環境將會損害到本馬達，不在保固範圍內。

- 本產品之設計或製造，為使用裝配於其他之機械設備上。
- 避免將馬達使用於可燃氣體或腐蝕氣體之環境。
- 限使用於室內。周溫範圍-10°C~+50°C（電容器組合馬達-10°C~+40°C）。
- 溼度: 不可超過85%，以避免水氣凝結。
- 高度: 不可超過海平面1000公尺。
- 避免陽光直射，灰塵堆積。
- 避免水或油的噴濺。
- 避免連續性震動或撞擊。
- 使用於良好通風之場所。

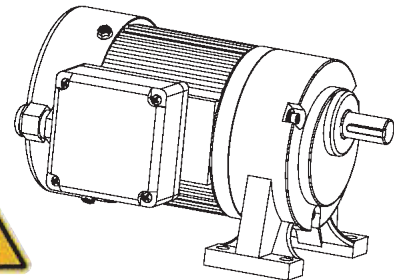
1.3 操作準備

- 馬達啟動前請檢查電源。
- 高溫會損害線圈或培林之壽命。
- 使用前請先確認電容器規格。
- 請勿搭配變頻器使用。
- 馬達接線錯誤會導致馬達燒毀。
- 馬達超負荷使用有燒毀之虞。

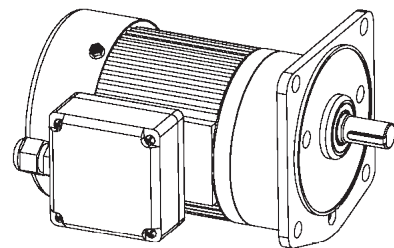
2. 負荷之取用及安裝方法

出力軸外徑為研磨加工，並以鍵槽作為傳動媒介，故傳動元件內孔請預銑鍵槽以便安裝。

〈臥式馬達〉



〈立式馬達〉



⚠ 請注意

- 安裝過程中，請勿以任何工具敲擊，以免損壞馬達。
- 將本公司產品與其他產品搭配使用時，請確認是否符合客戶所需之規格、法規或限制等。
- 此外，請客戶自行確認目前所使用的系統、機械或是裝置是否適用於本公司產品。
- 如未確認是否符合或適用時，本公司無需對本公司產品的適用性負責。
- 對本產品進行任何維護工作前(包括安裝、拆卸、維修保養等)務必先關閉開關，切斷電源並且確保維護中電源不會被開啓。所有運轉部件都必須停止運轉。
- 未正確的配接電源可能會引起觸電導致嚴重傷害！請由合格電氣技師人員實施。
- 馬達運轉時表面溫度會超過40°C，可能造成燙傷。產品維護工作請於關閉電源並且等待馬達溫度降至室溫後實施。

橡膠墊片

Rubber gasket

防水橡膠墊片客製化

防水橡膠墊片專為密封、擋屑、防水、擋水與防塵而設計，可完全依客戶圖面客製化製作。

- **應用：**
 - 法蘭蓋密封
 - 板金接合處密封
 - 機台擋水簾
 - 馬達介面防水
- **規格：** 1mm ~ 5mm
- **材質：** NBR (丁腈橡膠)、NBR夾紗尼龍

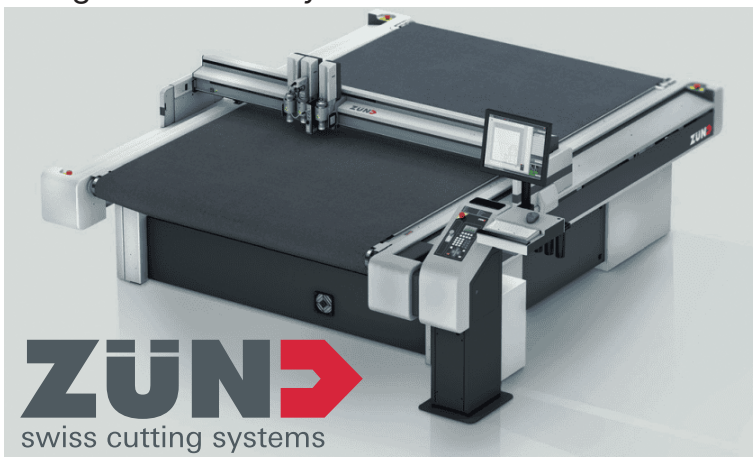


Offering customized solution

Rubber gaskets are designed for effective sealing, chip diversion, waterproofing, splash guarding, and dust prevention. We offer custom manufacturing based on customer drawings.

- **Applications :**
 - Flange cover sealing
 - Sheet metal joint sealing
 - Machine splash guards/curtains
 - Motor interface waterproofing
- **Specifications :** 1mm ~ 5mm
- **Materials :** NBR (Nitrile Butadiene Rubber), NBR with Nylon Fabric Reinforcement

使用Zünd瑞士切割機
Using Zünd cutter system



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