



公司介紹 COMPANY PROFILE

1. 1960年本公司董事長陳茂正先生創設"成大機器廠"於高雄市自強二路，工廠取名"成大"乃本於其對母校成功大學機械系在機械專業知識教育養成之感恩及飲水思源之情。
2. 成大機器廠成立後，專門從事汽車船舶引擎曲軸之研磨再生，汽缸搪缸及柴油引擎校正等機械加工工程，當時為南台灣之翹楚，由於技術精良服務親切，開業後旋即聞名遐邇，生意蓬勃。
3. 1971年本於公司發展應有自主性產品，才能永續經營遂與日本減速機製造廠技術合作，開始生產製造自有品牌之成大齒輪減速機，發展至今，公司員工近90名，產品以自有之CHENTA品牌行銷全球。主要市場為台灣、亞洲、美洲及中東，至今已執台灣業界之牛耳。並在海外設立美國分公司及中國上海分公司。
4. 建廠以來，本公司即本著"結合一流人才，研發製造高品質的產品"為信念。產品政策以"品質保證""交貨準確""價格競爭""生產合理"及"行銷國際"為追求目標。
5. 累積40多年之機械製造經驗及誠信經營精神，本公司已自然形成一種優良的公司文化，此精神文化乃是公司最寶貴之資源，表諸文字即是"新""實""勤""效"，乃創新、信實、勤快、效益，之意也。
6. 全體員工受此公司文化之薰陶，工作勤奮盡忠職守。在良好工作環境下，協力合作積極創新。使公司持續穩定發展，營造共同效益。
7. 本公司將在現有資源文化基礎上，繼續秉持敬業精神，以客戶至上的服務態度，精益求精，生產高品質具競爭價位之齒輪減速機回饋國內外客戶，與客戶攜手成長，以臻永續經營之目標。

公司概要

公司名稱：成大精機工業股份有限公司

CHENTA PRECISION MACHINERY IND. INC.

成立：民國60年（1971年）

職工人數：90名

廠房面積：仁武廠7000m²

上海廠6800m²



COMPANY PROFILE



1. IN 1960, Mr. Mao Cheng Chen, president of the company, and two other colleagues in the department of Mechanical Engineering of the Tainan Engineering College (predecessor of Cheng Kung University) established a company called "Chen Ta Machinery Works". It was named "Chen Ta" in remembrance of, and also giving acknowledgement to, their alma mater, Cheng Kung University (called Chen Ta in short) from where Mr. Chen and his colleagues had received their specialized mechanical education.
2. Chen Ta Machinery Works specialized in machining jobs such as grinding/re-building of the crankshafts of automobile and vessel engines, cylinder overhaul, and diesel engine adjustment. Back then, she was the best of her field in southern Taiwan. Due to the excellent technique and the cordial service, the company name was soon well known and the business became prosperous.
3. In 1971, to support a long-term operation, the company needed her own products, so the technique cooperation between CHENTA and Japan reducer manufacturer began. From then on, CHENTA started manufacturing her own brand, "CHENTA GEAR REDUCERS". Now the company has about 90 employees, and her products have been marketing to the world under the name of "CHENTA". The major markets are in Taiwan, Asia, and America. In Taiwan, she remains at the top of the field and also established branch offices in America and in Shanghai (in China).
4. Since the beginning of the company, our conviction is to "Gather excellent human resource, and research and manufacture high quality products". Our product policy is targeting at "Guaranteed Quality", "On Time Delivery", "Competitive Prices", "Rational Production", and "International Marketing".
5. With more than 40 years of experience in mechanical manufacturing and honest operation, a fine culture has naturally grown inside the cooperation. This spirit is the most precious resource of our company. The motto of our company is based on "INNOVATION", "HONESTY", "DILIGENCE", and "EFFICIENCY".
6. Influenced gradually under such fine culture, all employees in CHENTA work hard and take responsibility. They cooperate with each other and innovate actively. With their efforts, CHENTA keep developing and growing up to fight for the mutual benefit.
7. To reach our long term operation goal, based on the company's existing cultural resources, we will: have high expertise in the field; serve our customers with respect; constantly improve ourselves; manufacture high quality and affordable speed reducers for customers throughout the world, all so that we can grow together with our customers.

COMPANY PROFILE

Company Name : CHENTA PRECISION MACHINERY IND. INC.

Established : 1971

Employee: 90 persons

Plant Sizes: Jen Wu Plant 7000m²

Shanghai Plant 6800m²

蝸輪蝸杆螺旋升降機 產品特點說明

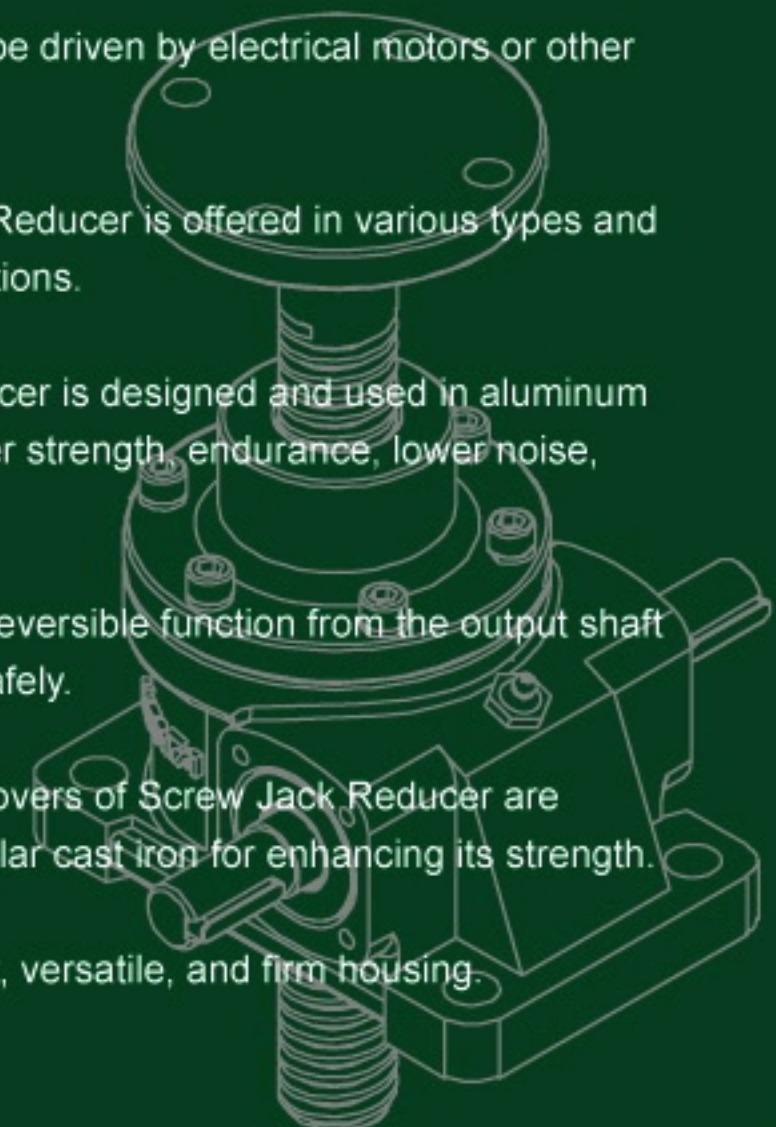
Features



- 1> 應用廣泛性：升降機廣泛應用于機械、冶金、建築、水利、太陽能發電等諸多行業。
- 2> 調整靈活性：升降機具有起升、下降及借助輔助推進、翻轉及各種高度位置調整等諸多功能。
- 3> 動力源廣泛性：升降機具有既可用馬達或者其它動力直接驅動，也可以手動驅動。
- 4> 安裝方便使用靈活性：升降機具有多種結構形式可供安裝方式選擇，來滿足不同的使用場合。
- 5> 傳動平穩性：蝸輪和螺母采用高耐磨強度的鋁青銅，傳動具有低噪音、高可靠性，確保無卡死現象。
- 6> 自鎖性：此升降機傳動具有自鎖性（不可逆性），傳動更安全方便。
- 7> 高強度：此升降機箱體及蓋子采用高強度球墨鑄鐵，比同行業產品具有更高的強度。
- 8> 結構外型美觀，堅固。

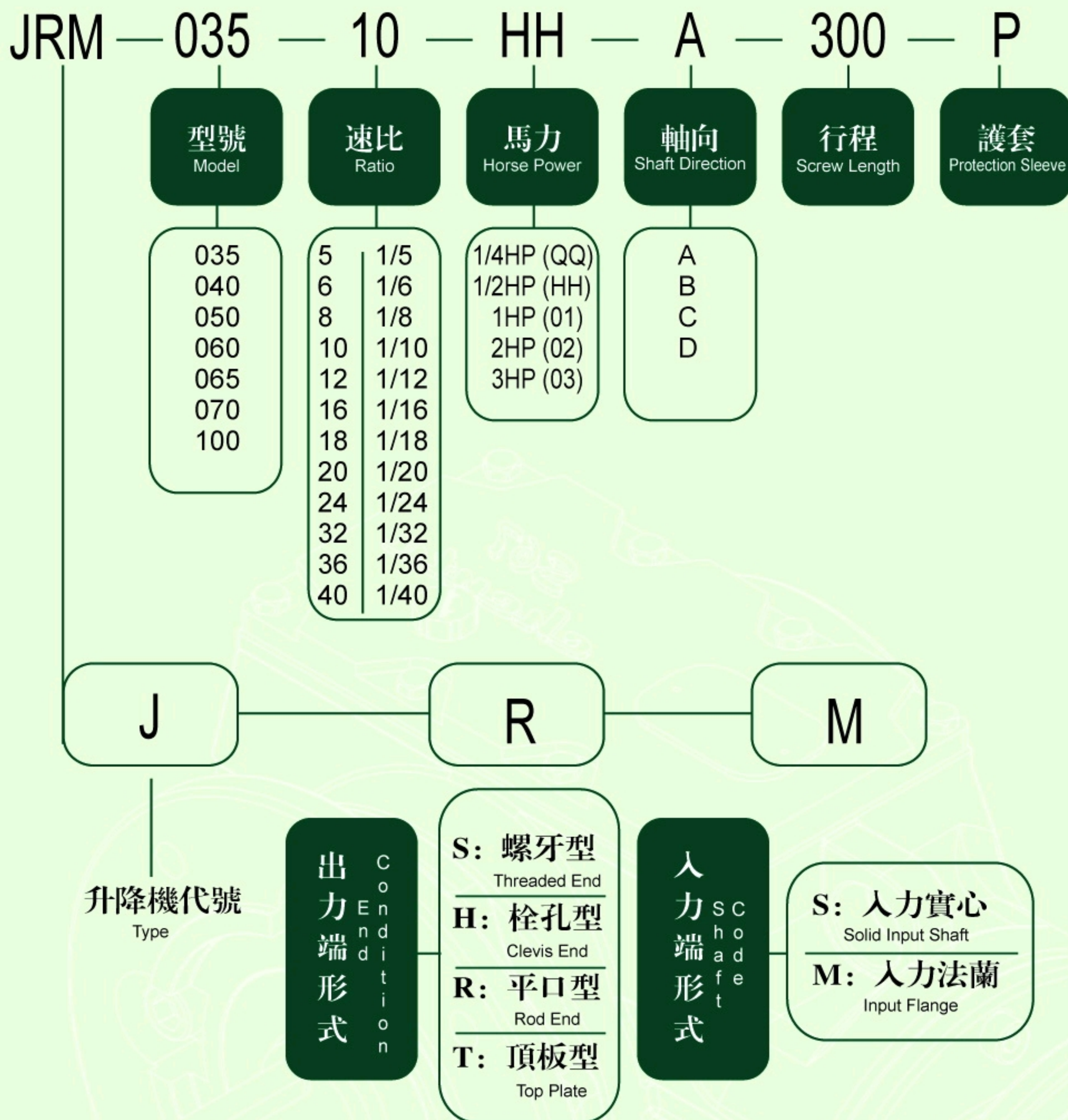
Product Features

- 1> Various applications: Screw Jack Reducer is widely used in various industries such as in Mechanical, Metallurgical, Architectural, Agricultural irrigation, Solar power energy, and etc.
- 2> Installation flexibility: Screw Jack Reducer has adjustable installation by moving upward, moving downward, auxiliary propelled, turnover, and height adjustment.
- 3> Drive ability: Screw Jack Reducer can be driven by electrical motors or other power drivers, and by manually.
- 4> Convenience of mounting: Screw Jack Reducer is offered in various types and mounting positions for diverse applications.
- 5> Stable transmission: Screw Jack Reducer is designed and used in aluminum bronze worm wheel which offers better strength, endurance, lower noise, higher reliability, and free lock.
- 6> Self-lock: Screw Jack Reducer bears irreversible function from the output shaft and makes transmitting movements safely.
- 7> Strength enhanced: the casting and covers of Screw Jack Reducer are produced in high tensile strength nodular cast iron for enhancing its strength.
- 8> Our Screw Jack is featuring a compact, versatile, and firm housing.

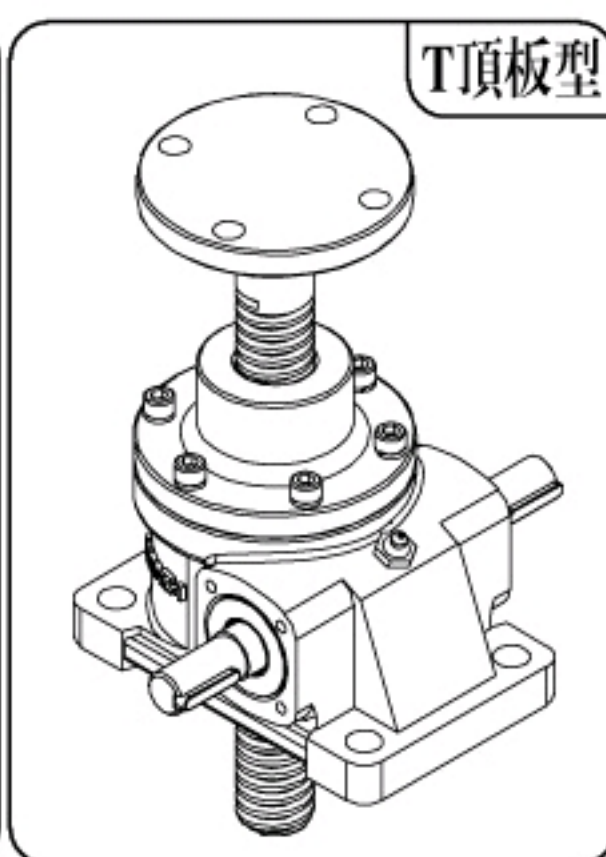
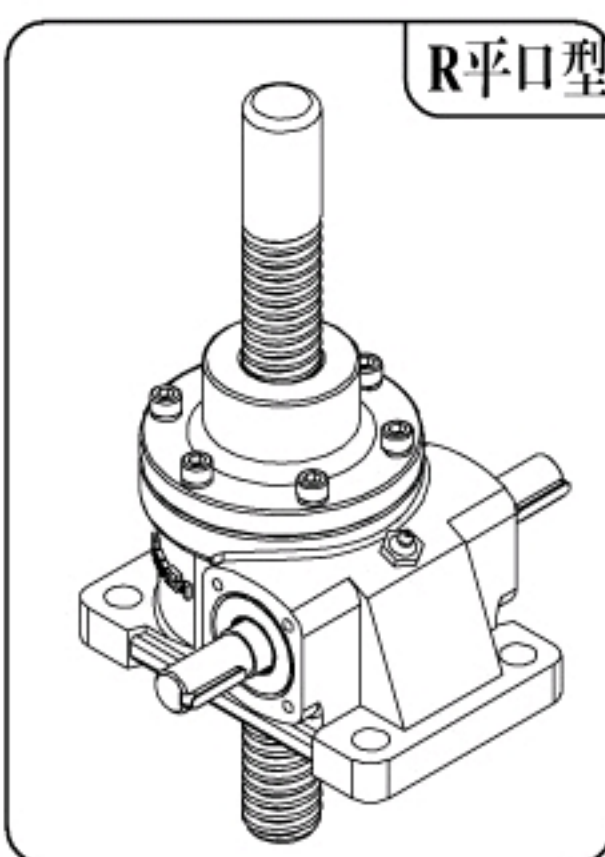
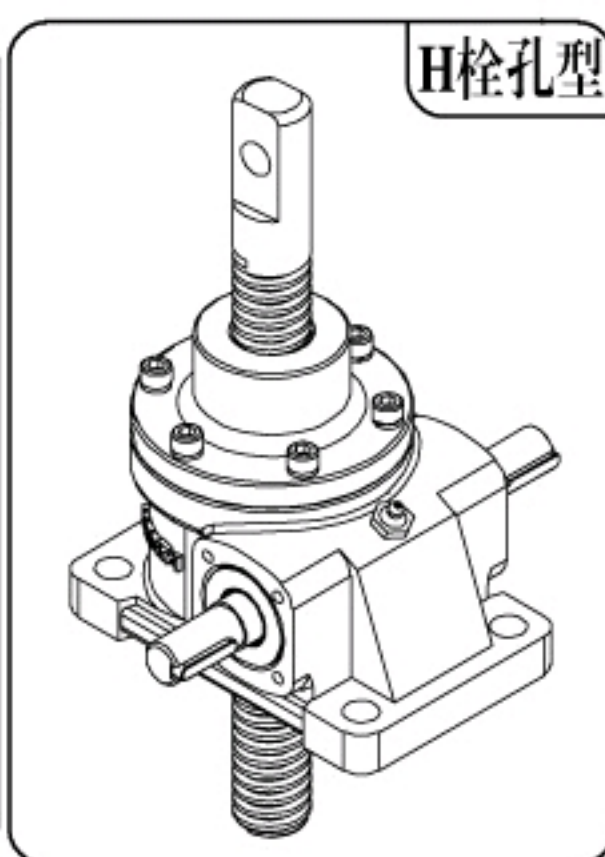
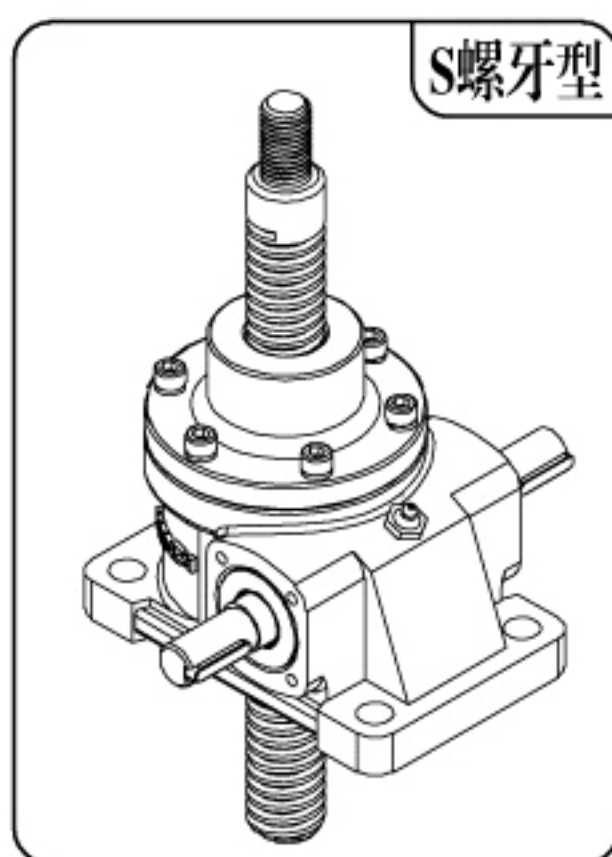


螺旋升降機之型號編碼說明

Sample Part Number



出力端形式

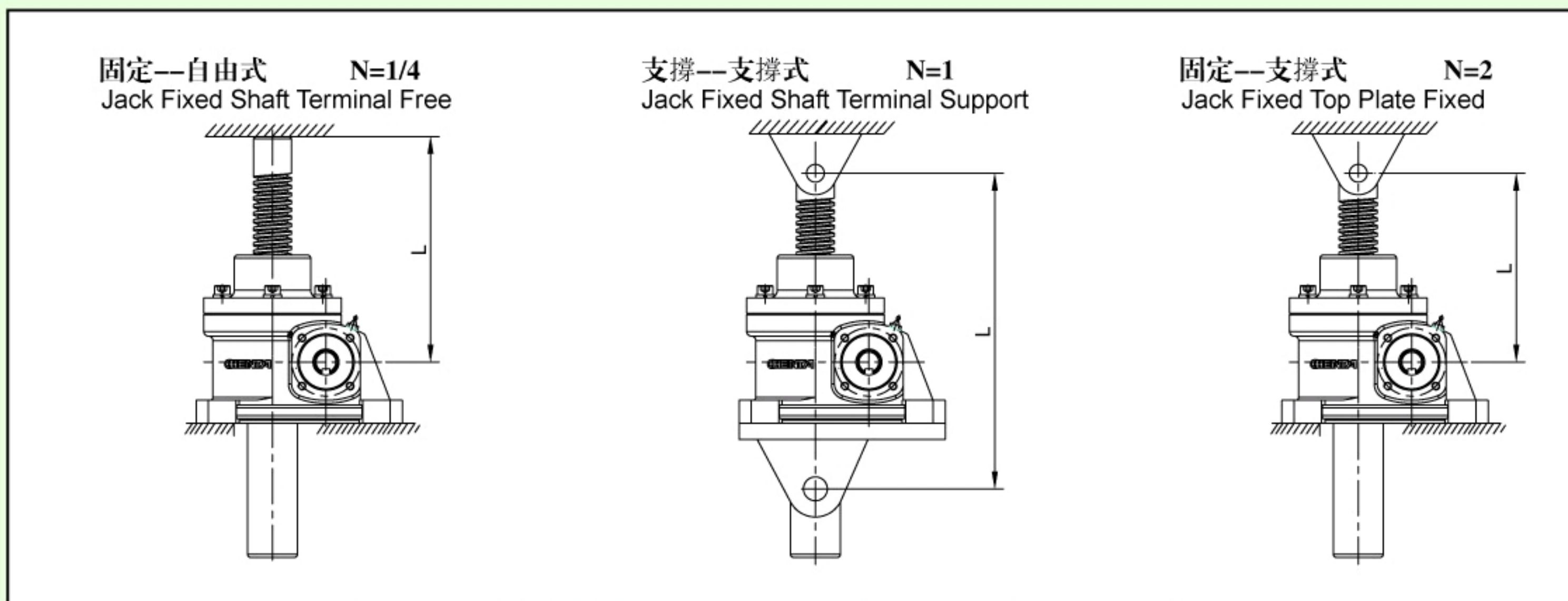


螺旋升降機容許彎曲負荷值

Permissible Bending Load

關於各種型號及軸端各種負荷方式，有關牙杆長度及容許彎曲負荷可參考以下表格或計算公式。

As for the screw length and permissible bending load for a variety of models and methods of loading at screw end, please refer to following charts and formula.



容許彎曲負荷值計算式：Formula:

$$P_{cr} = n \cdot \pi^2 \cdot E \cdot (K/L)^2 \cdot A \cdot \alpha$$

N:軸端支撐因數

Shaft end support factor

E:縱向彈性模數 $2.1 \times 10^4 \text{ kgf/mm}^2$

Longitudinal elasticity modulus

K:最小輔助半徑 $K=d/4$ d=螺紋底徑

Minimum auxiliary radius Minor diameter

L:軸支撐長度（如上圖示）

Shaft support length

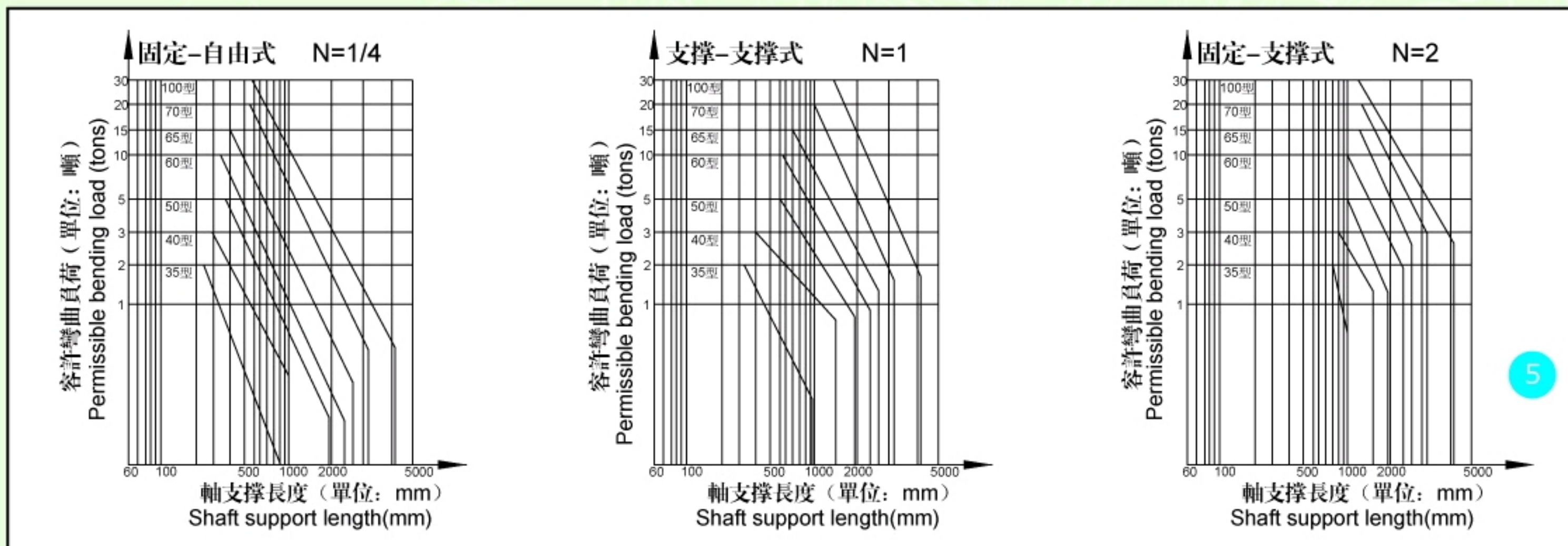
A:舉升螺杆之螺紋底徑的段截面積 $A=\pi \cdot d^2/4$

Section area of diameter for thread of lifting screw

α :安全系數 $\alpha=0.25$

Service factor

螺紋底徑值d							單位: mm
型號	35	40	50	60	65	70	100
d值	19.9	25.2	31.5	35.9	42.3	53	61.5



螺旋升降機之技術參考

Technical Data

技術參考 Reference

公式一：
Formula 1:

$V = \frac{N \cdot P}{i}$	V: 升降速度 (m/min) speed (m/min)
	N: 入力轉數 (rpm) input RPM (rpm)
	P: 螺桿牙距 (mm) pitch (mm)
	i: 減速比 ratio

公式二：
Formula 2:

$L = \frac{Q \cdot V}{102 \cdot 60 \cdot \eta}$	L: 額定功率 (KW) rated input power (kw)
	Q: 升降荷重 (KG) overhead load (kg)
	V: 升降速度 (m/min) speed (m/min)
	η : 升降級效率 efficiency

【表一：使用系數表】
Table 1: load factor

負荷性質 Load condition	使用範例 Example	使用系數 Load factor
均一負荷 Uniform load	閥門開關裝置，輸送帶切換裝置 Valve switching device, conveyor switching device	1.0~1.3
中度衝擊 Moderate shock load	各種升降橫移移動裝置 Diverse elevators horizontally moving device	1.3~1.5
重度衝擊 Heavy shock load	壓延滾輪間隙位置定位 Clearance adjustment for calendar roller	1.5~3.0

公式三：
Formula 3:

1kg-m=9.8Nm

$L = \frac{T \cdot N}{9550}$	L: 額定功率 (KW) rated input power (kw)
	T: 傳動轉矩 (Nm) output torque (Nm)
	N: 入力轉速 (rpm) input RPM (rpm)

【表二：連動系數表】
Table 2: transmission efficiency

連動臺數 (臺) Q'ty (unit)	2	4	6	8
連動系數 Transmission factor	0.9	0.8	0.7	0.7

※參考範例

Examples: Horsepower example for a 4-Jack-System

負載荷重3Ton升降速度0.45m/min行程1000mm以四點平面同步升降
查(表一) 得知安全系數=1.3, 舉升負荷=(3000Kg/4) * 1.2=900Kg

查(第6頁) 舉升負荷, 【選用40型 牙杆直徑Ø31.75mm P=6】

Find the horsepower required to raise a system load of 3 tons, a speed of 0.45m/min, a distance of 1000mm, using four in size 40 Jacks with input shaft dia.31.75mm and pitch 6. The service factor is 1.2(refer to table 1): the load per jack is 900kg(=3000kg/4*1.2).

帶入 (公式一) $i = \frac{N \cdot P}{V} = \frac{1800 \cdot 6}{450} = 24$ (減速比)
(formula 1) (ratio)

帶入 (公式二) $L = \frac{Q \cdot V}{102 \cdot 60 \cdot \eta} = \frac{3000 \cdot 0.45}{102 \cdot 60 \cdot 0.17} = 1.29$ (Kw)
(formula 2)

依工作環境查 (表一), 安全系數為1.2 SF=1.2, 1.29*1.2=1.548 (Kw)

Refer to table 1, SF=1.2, 1.29*1.2=1.548(KW)

依連動臺數查 (表二), 連動系數為0.8 1.548/0.8=1.935(Kw)≈3 (HP)

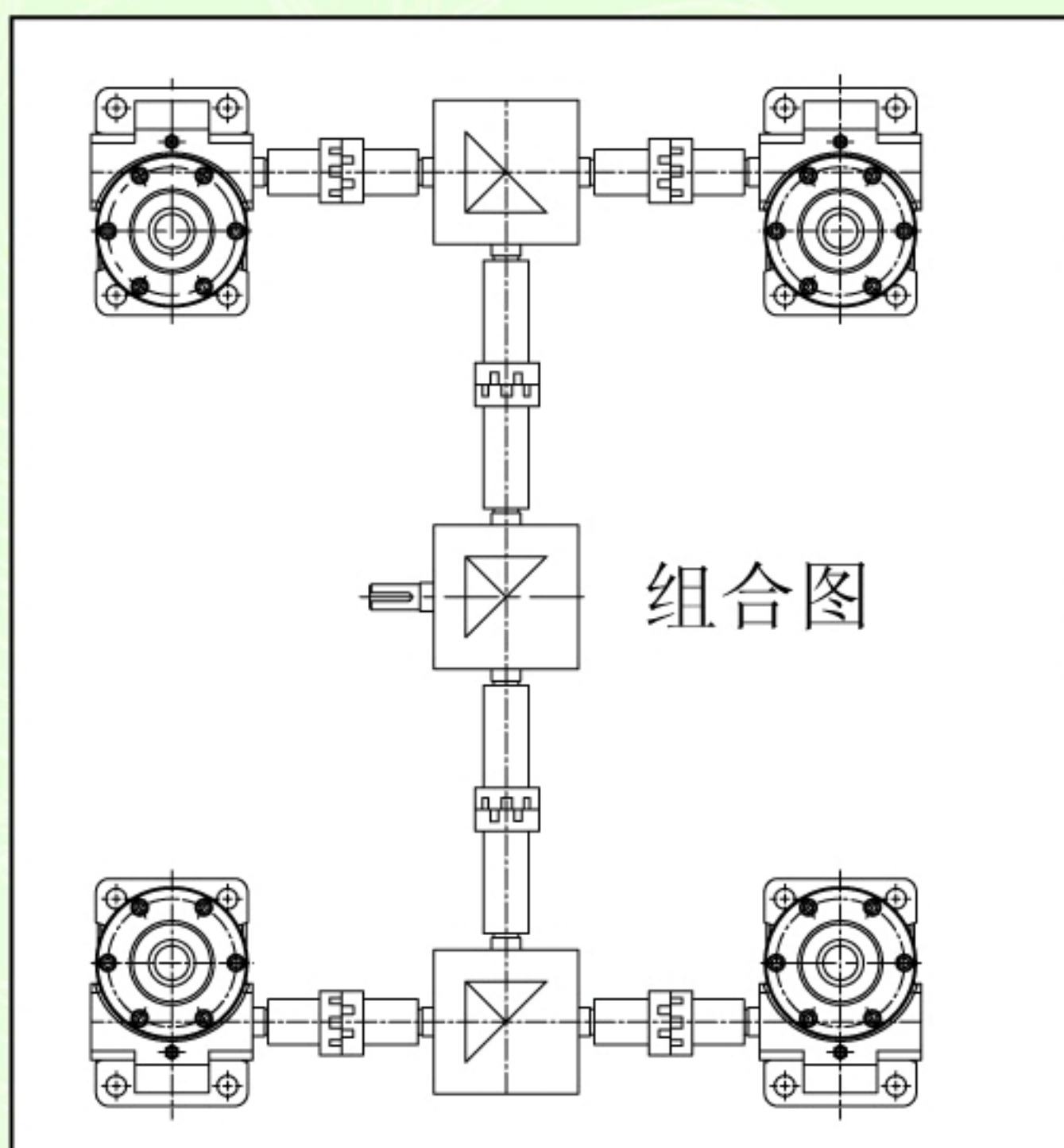
Refer to table 2, transmission factor=0.8, 1.548/0.8=1.935(kw) ≈ 3(HP)

【選用3HP-4P馬達】

→Select 3HP, 4P motor

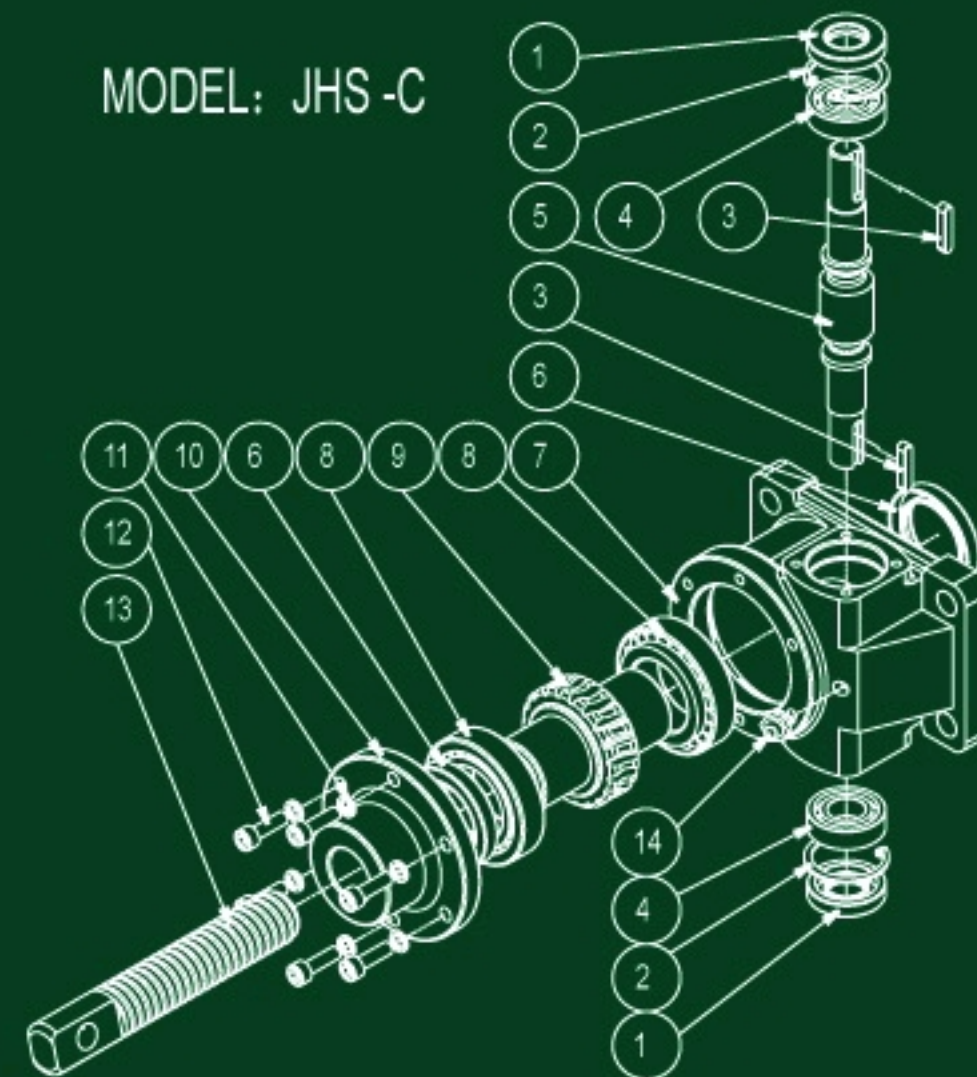
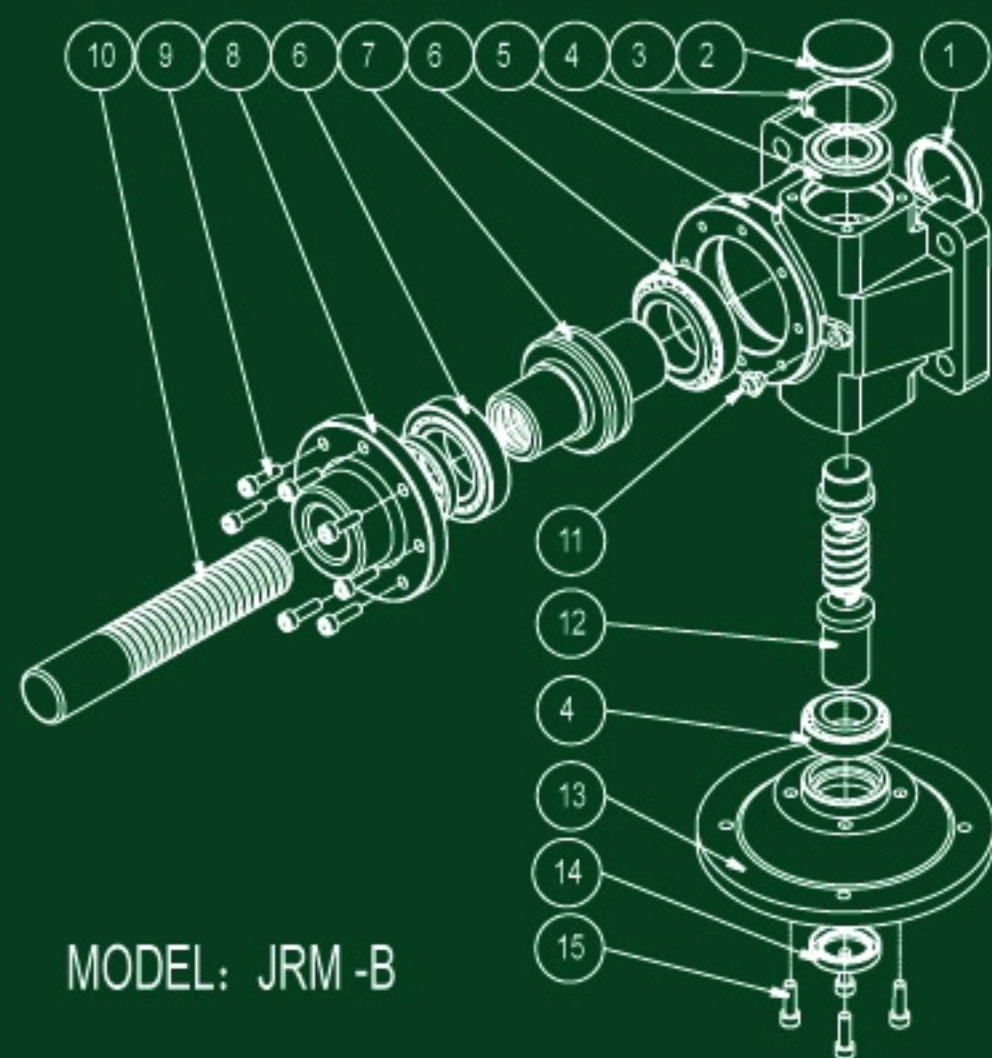
注: 依實際使用環境與工作條件設定均不相同, 以上使用範例計算數據僅供參考。

Remark: above example is subject to a reference only.

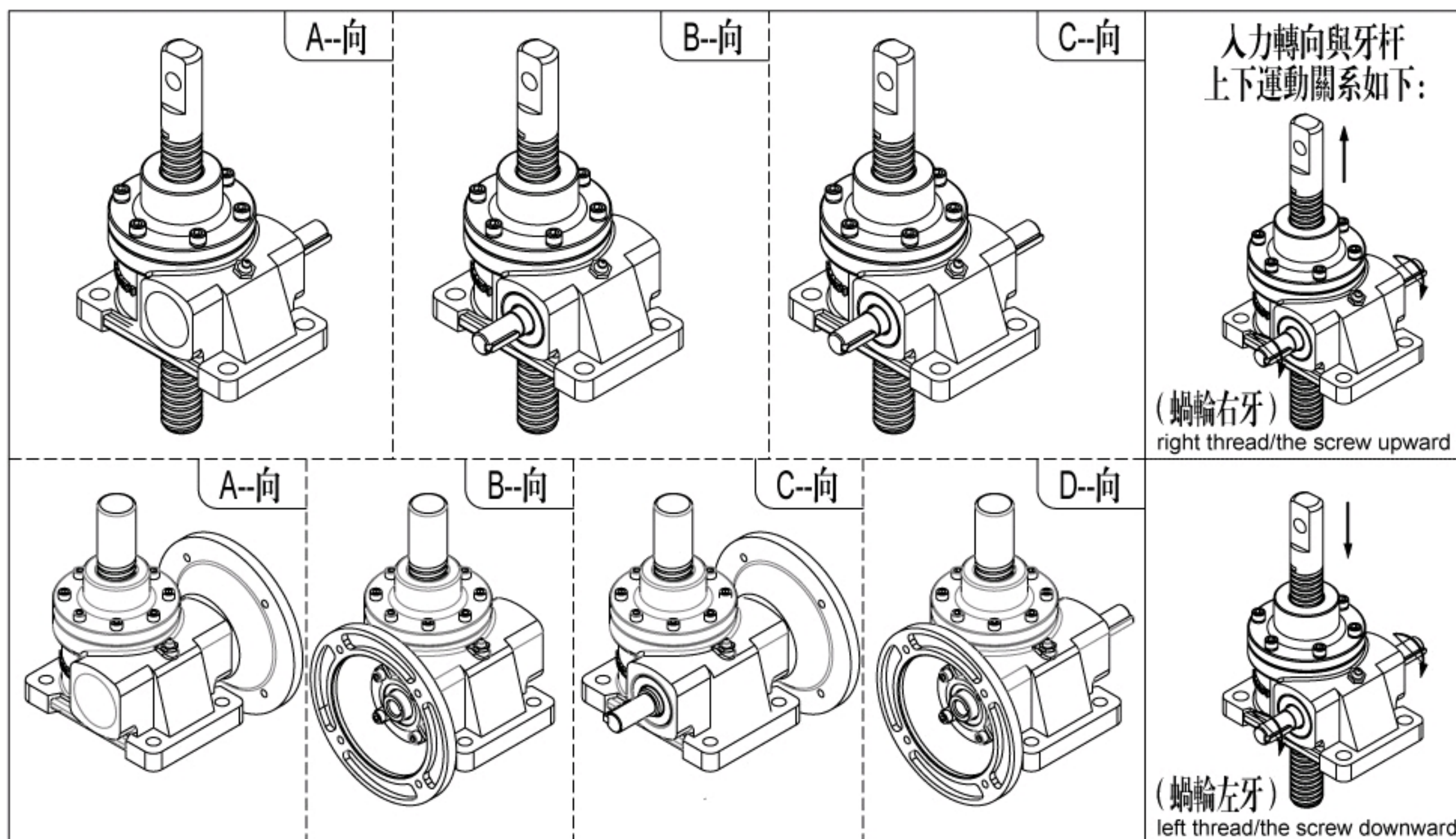


螺旋升降機分解圖及軸向

Basic Structure and Shaft Direction



編碼 ITEM	零件名稱 PART NAME	數量 QTY	編碼 ITEM	零件名稱 PART NAME	數量 QTY	編碼 ITEM	零件名稱 PART NAME	數量 QTY	編碼 ITEM	零件名稱 PART NAME	數量 QTY	編碼 ITEM	零件名稱 PART NAME	數量 QTY	編碼 ITEM	零件名稱 PART NAME	數量 QTY
1	油封 oil seal	1	6	軸承 bearing	2	11	黃油嘴 fitting	1	1	油封 oil seal	2	6	油封 oil seal	2	11	彈簧墊圈 spring	6
2	油封 oil seal	1	7	蝸輪 worm wheel	1	12	蝸杆 worm shaft	1	2	扣環 snap ring	2	7	本體 housing	1	12	螺栓 screw	6
3	扣環 snap ring	1	8	蓋子 cover	1	13	法蘭 flange	1	3	半圓鍵 key	2	8	軸承 bearing	2	13	螺杆 end shaft	1
4	軸承 bearing	2	9	螺栓 screw	8	14	油封 oil seal	1	4	軸承 bearing	2	9	蝸輪 worm wheel	1	14	黃油嘴 fitting	1
5	本體 housing	1	10	螺杆 end shaft	1	15	螺栓 screw	4	5	蝸杆 worm shaft	1	10	蓋子 cover	1			



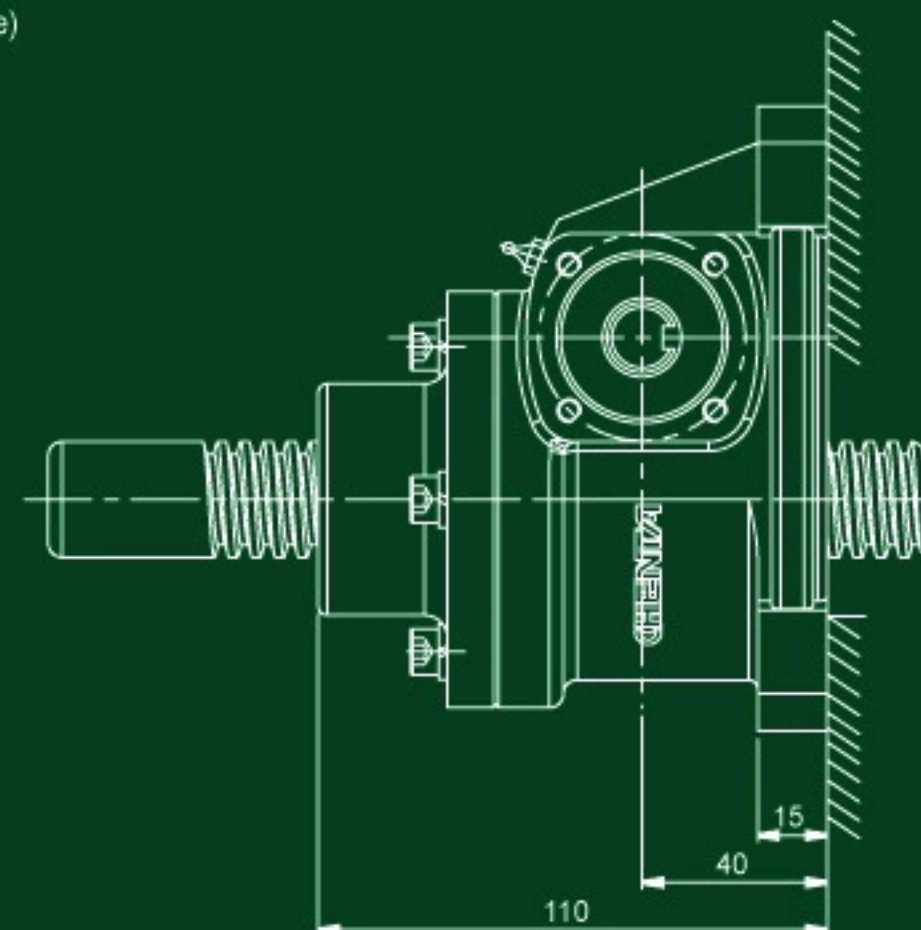
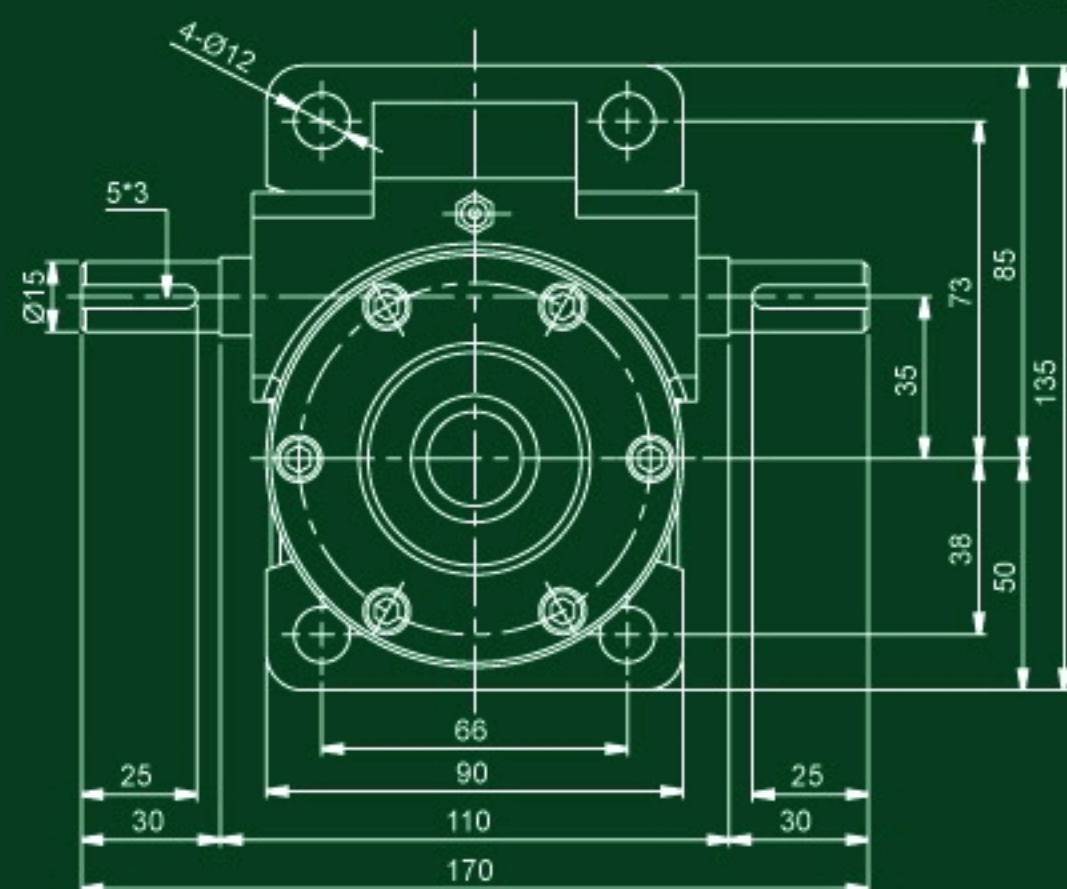


螺旋升降機外型尺寸

Dimensions(All dimensions are in mm.)

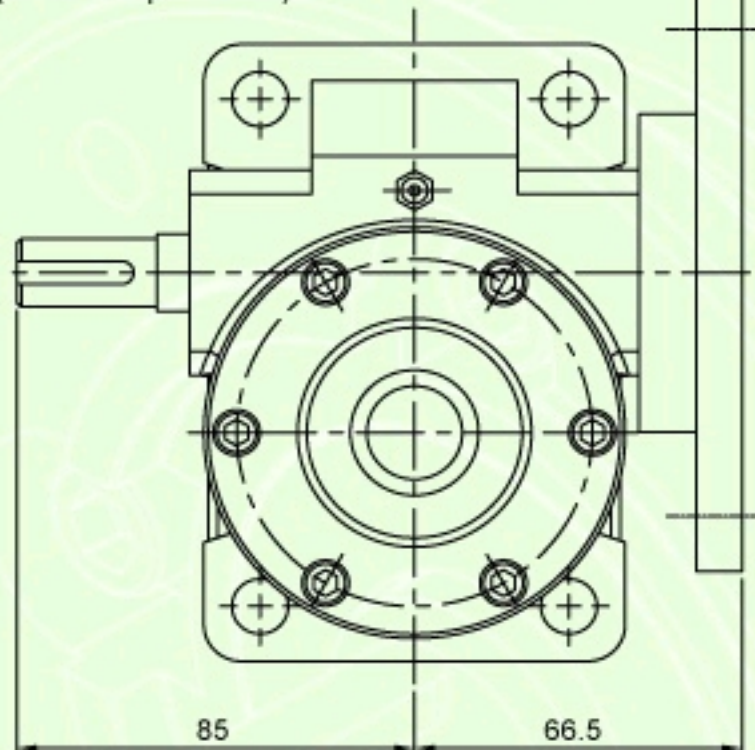
型號 規格 Size	螺桿直徑 Diameter	螺距 Pitch	減速比 Ratio			傳動效率 η Transmission Efficiency		
35	Ø 1"	P=5	1/5	1/10	1/20	20%	18%	11%

雙入力 (標準型)
Double Input Shaft (Standard Type)



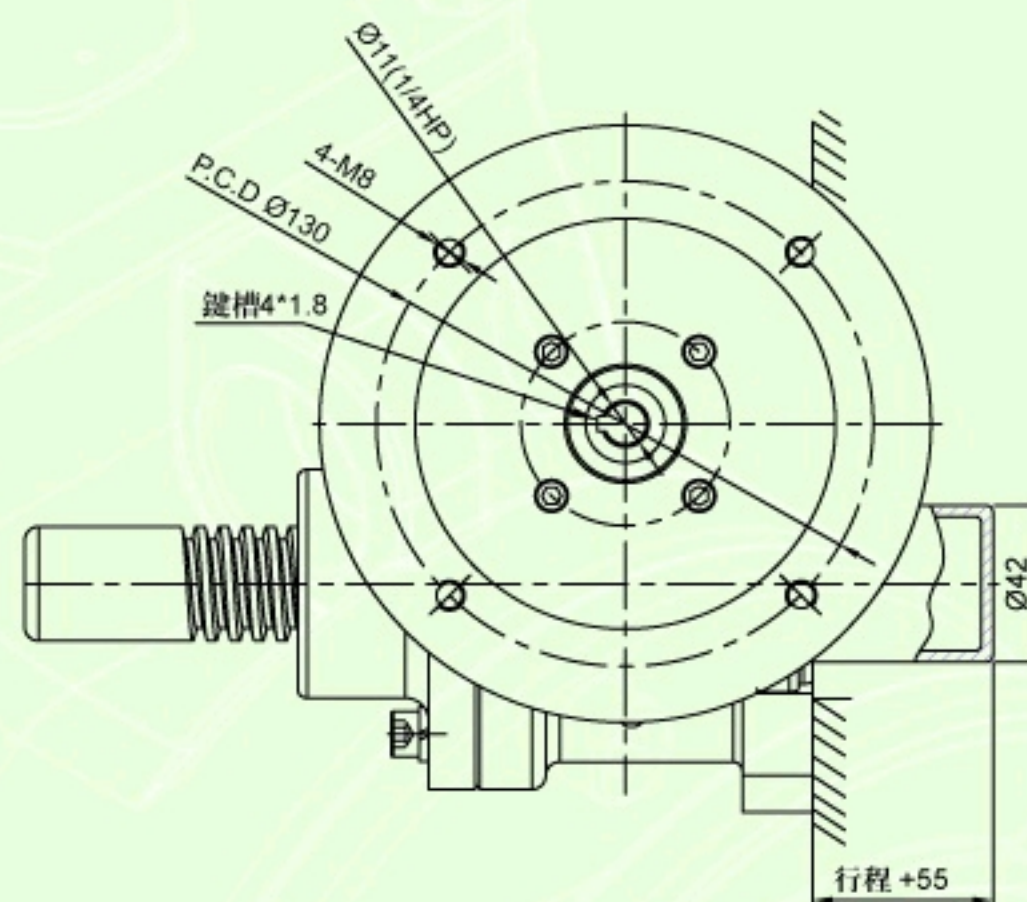
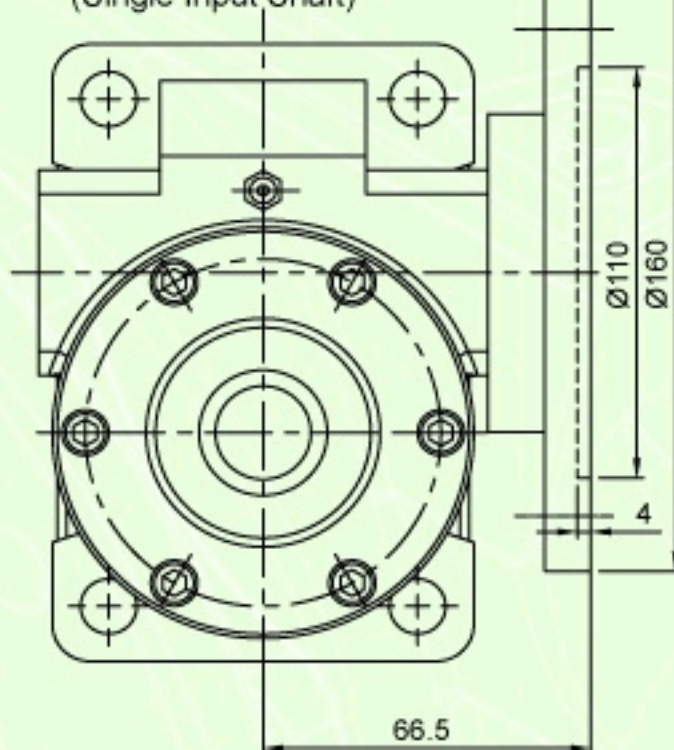
1.直結式 (雙入法蘭右側)

Coupling with Motor
(Double Input Shaft)



2.直結式 (單入法蘭右側)

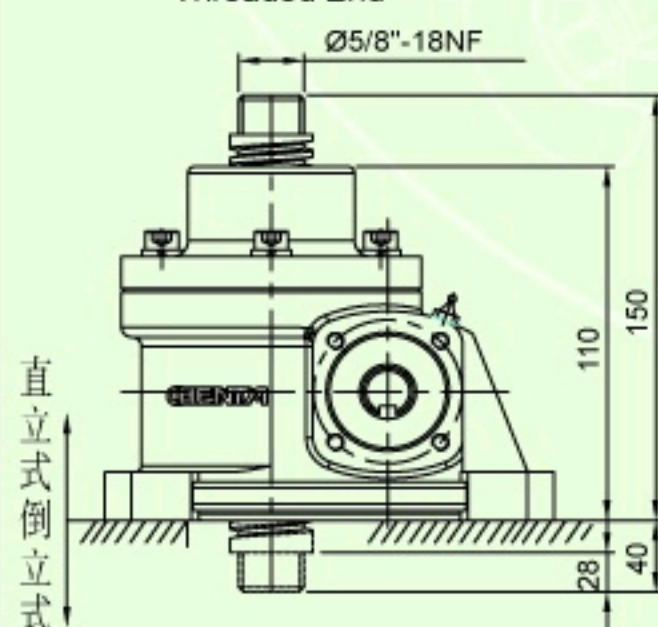
Coupling with Motor
(Single Input Shaft)



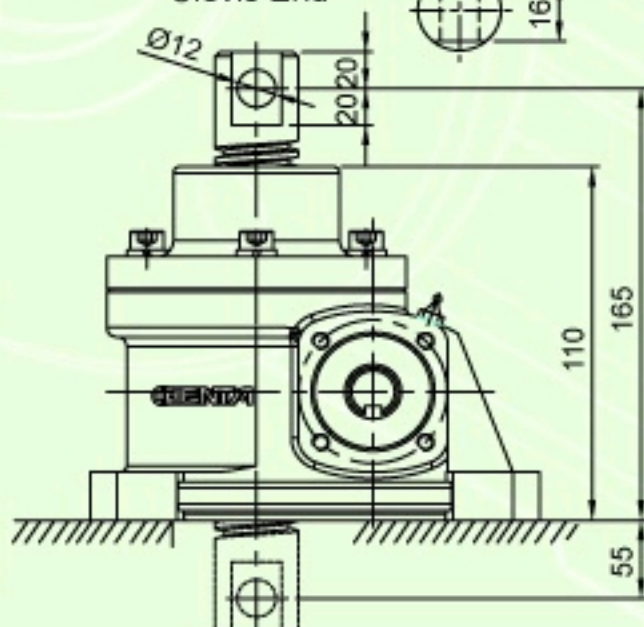
杆端型式及最短距離關係尺寸

Dimensions for screw end type and minimum distance

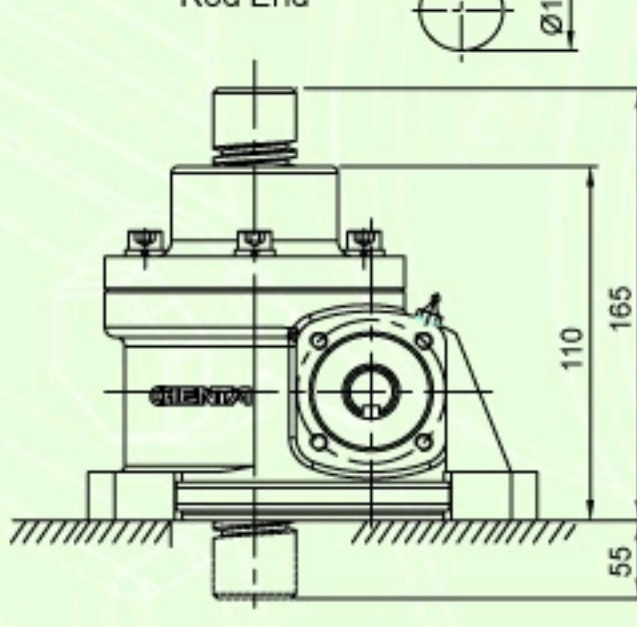
S型 (牙口式)
Threaded End



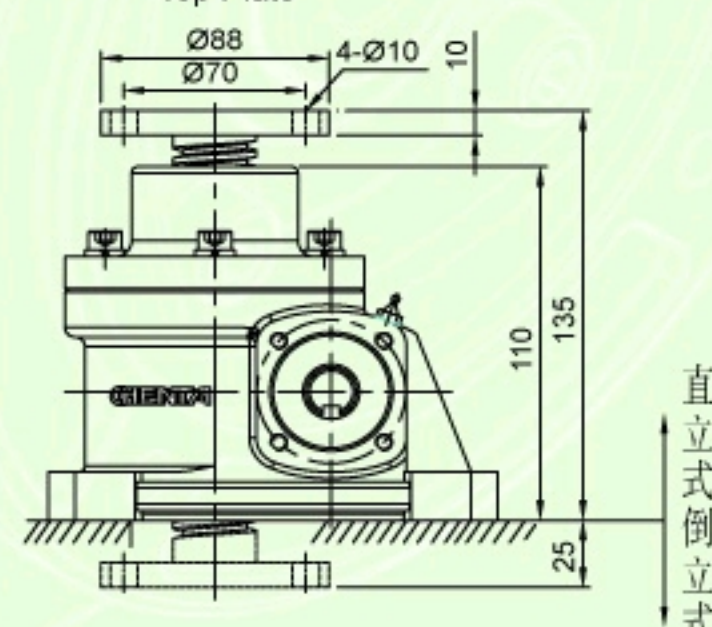
H型 (栓孔式)
Clevis End



R型 (平口式)
Rod End



T型 (頂板式)
Top Plate



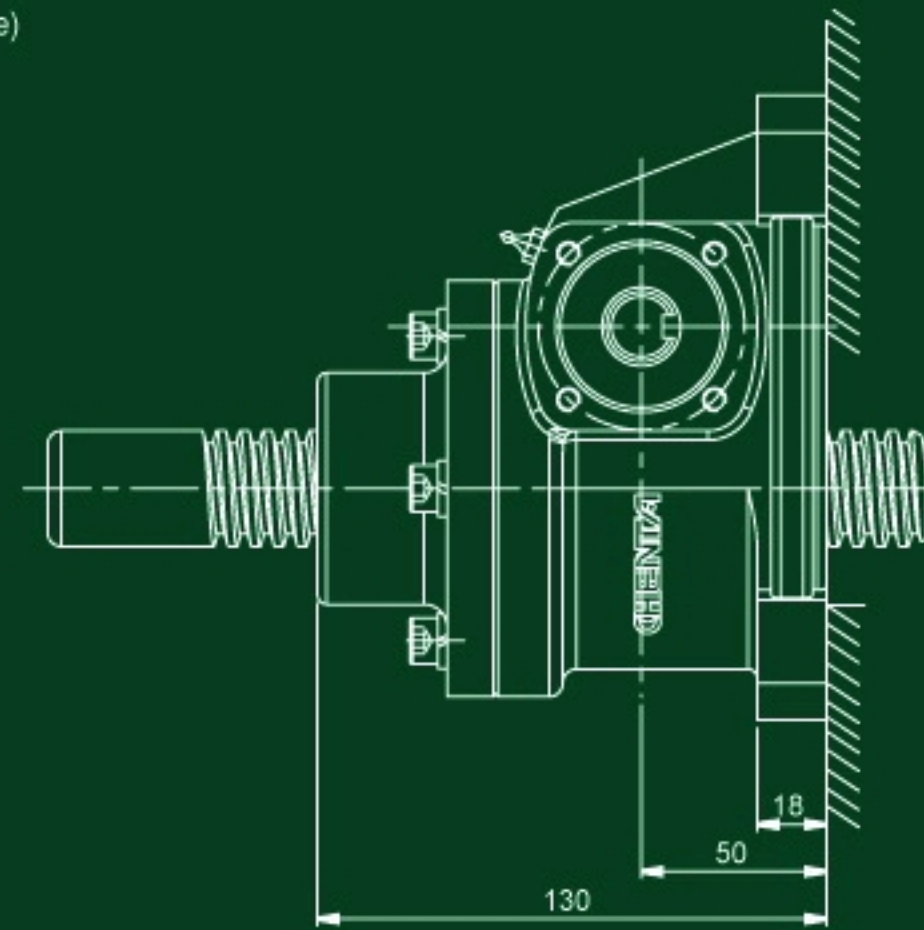
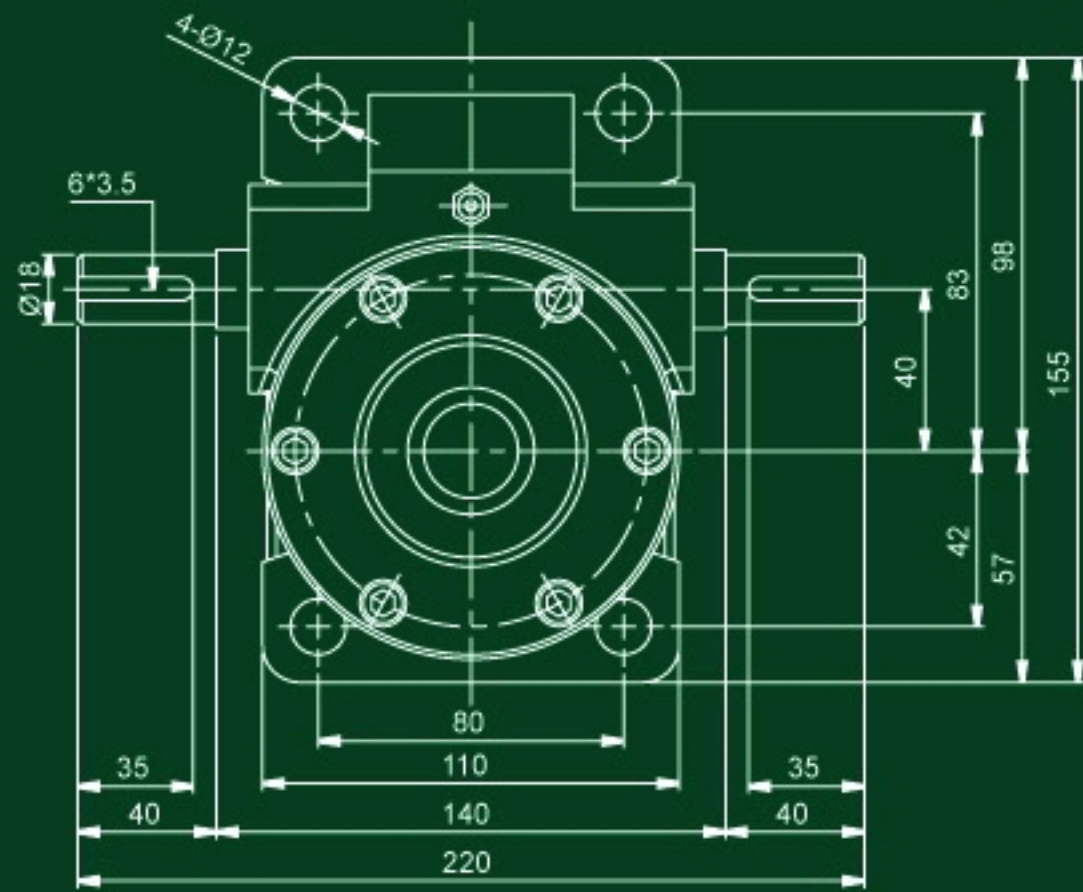
螺旋升降機外型尺寸

Dimensions (All dimensions are in mm.)



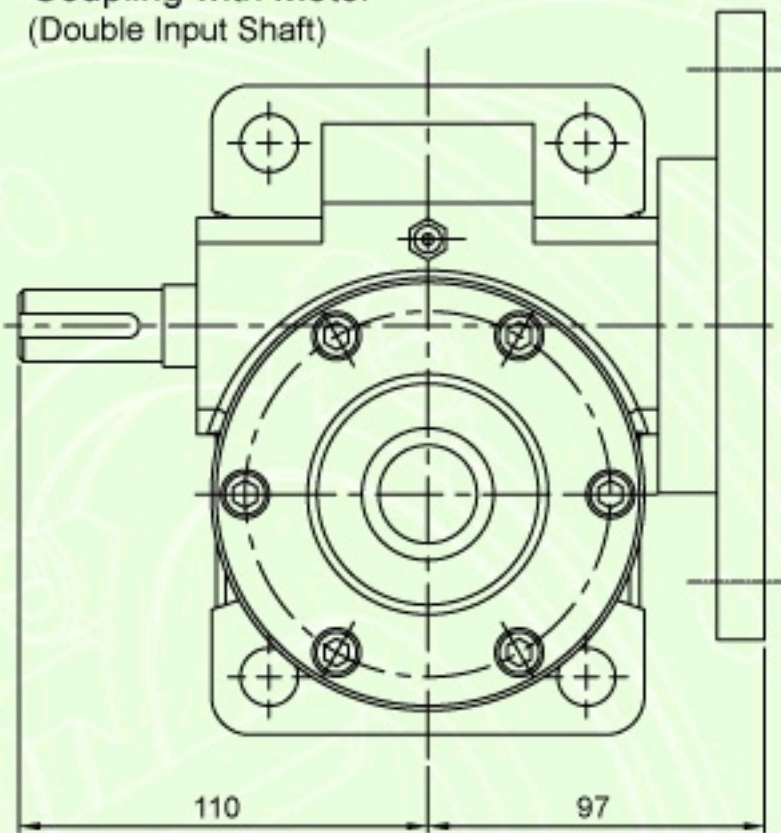
型號 規格 Size	螺桿直徑 Diameter	螺 距 Pitch	減速比 Ratio			傳動效率 η Transmission Efficiency		
40	$\varnothing 1\text{-}1/4"$	P=6	1/6	1/12	1/24	21%	21%	17%

雙入力 (標準型)
Double Input Shaft (Standard Type)



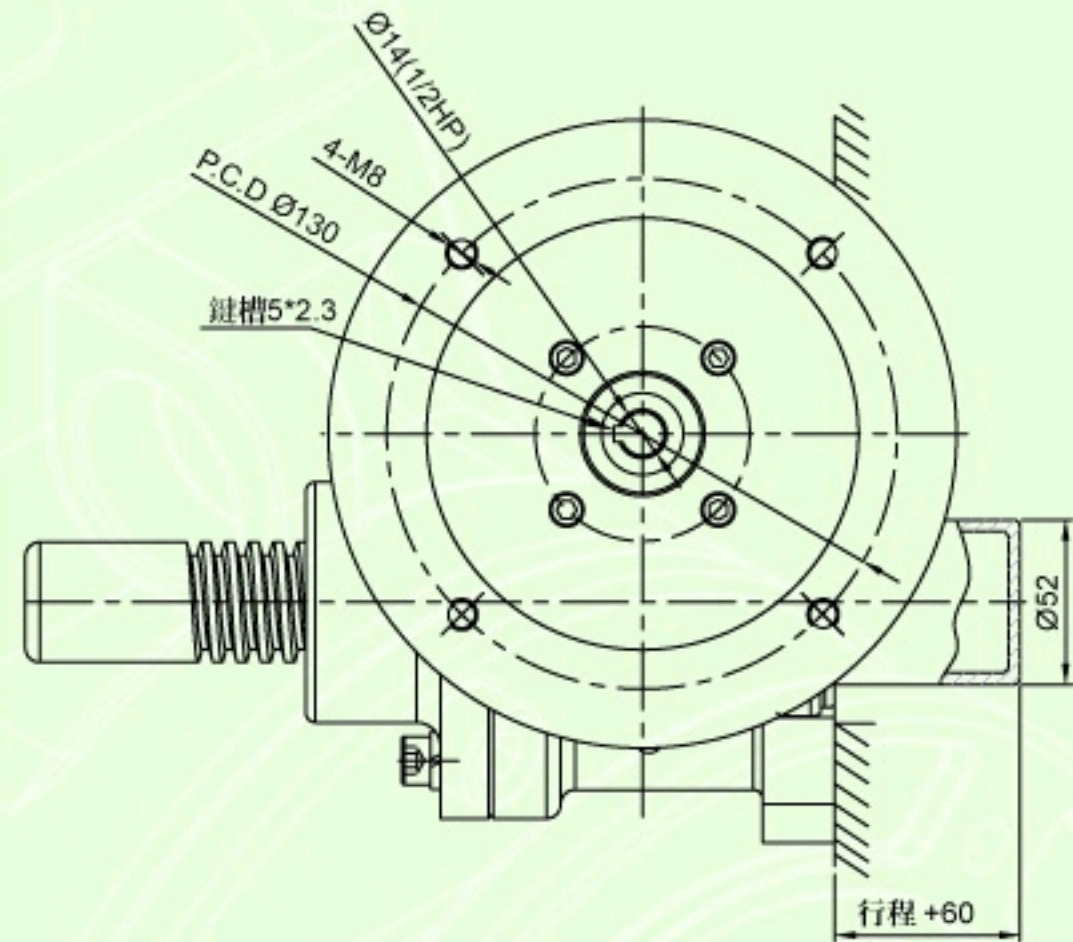
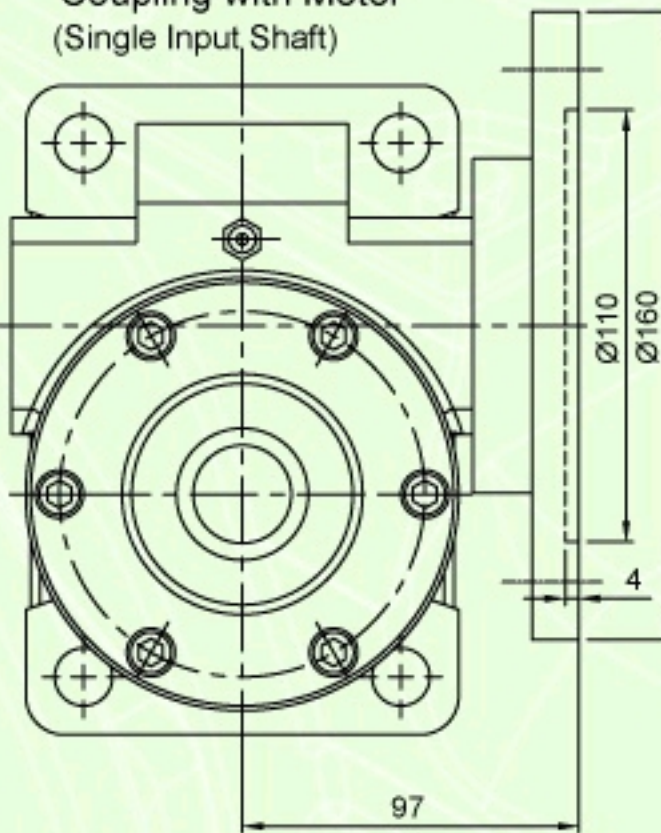
1.直結式 (雙入法蘭右側)

Coupling with Motor
(Double Input Shaft)



2.直結式 (單入法蘭右側)

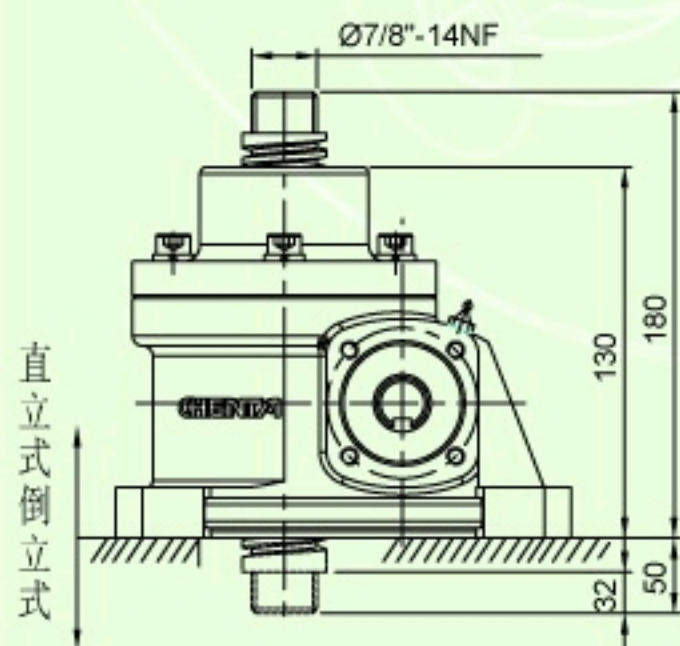
Coupling with Motor
(Single Input Shaft)



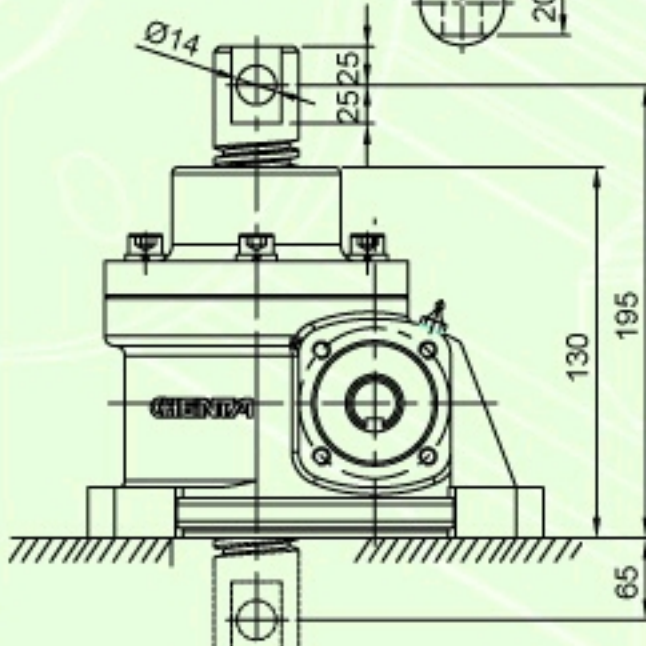
杆端型式及最短距離關係尺寸

Dimensions for screw end type and minimum distance

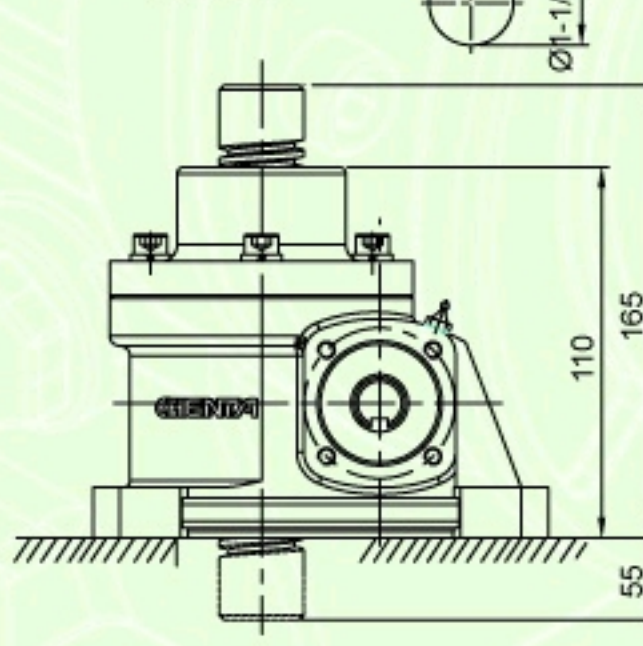
S型 (牙口式)
Threaded End



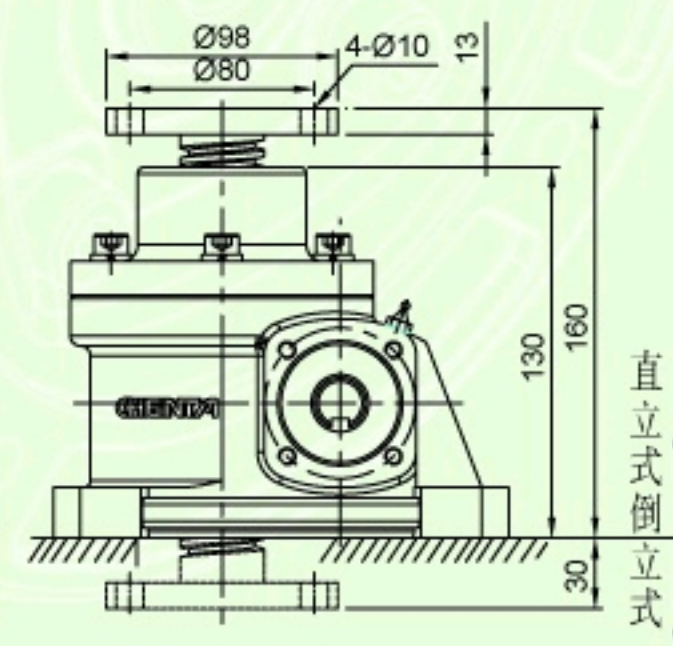
H型 (栓孔式)
Clevis End



R型 (平口式)
Rod End



T型 (頂板式)
Top Plate



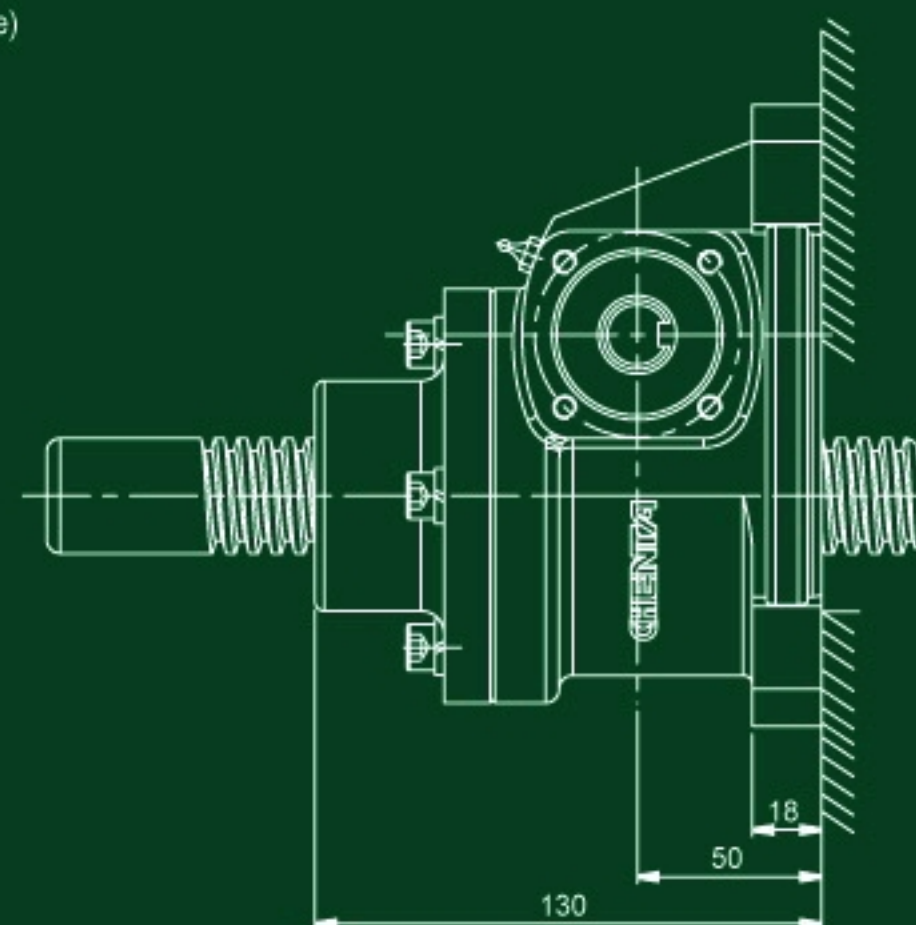
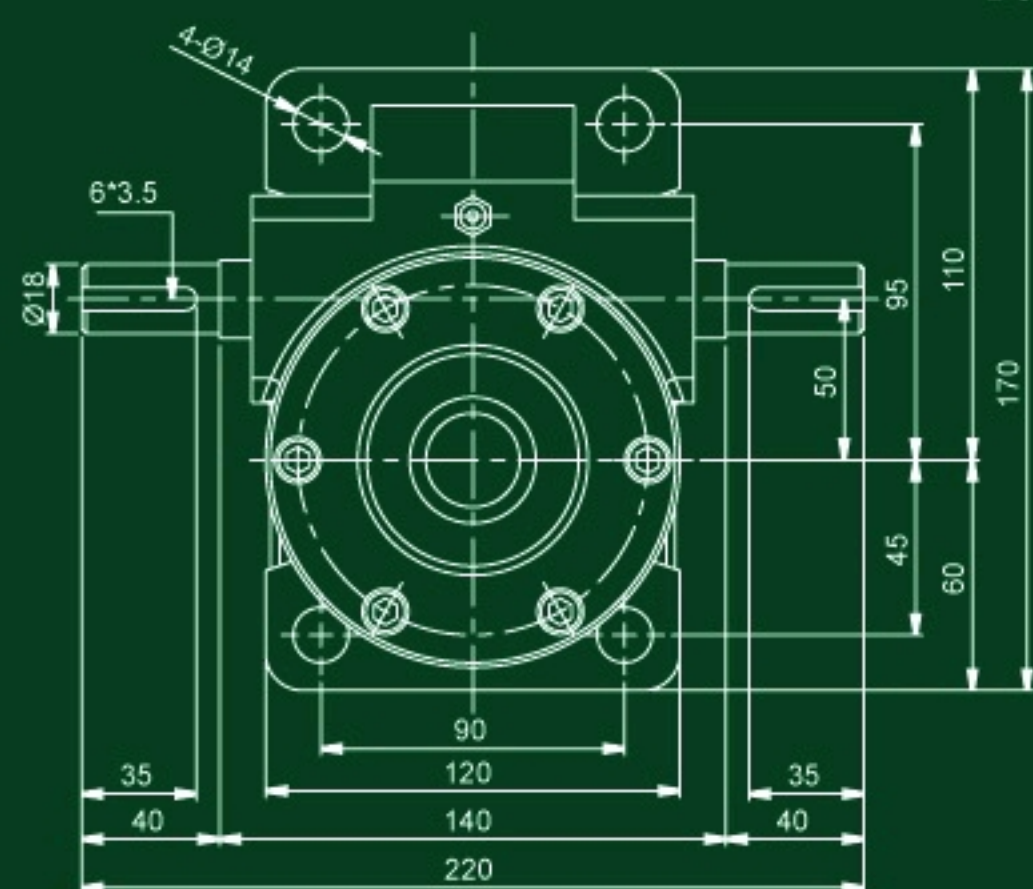


螺旋升降機外型尺寸

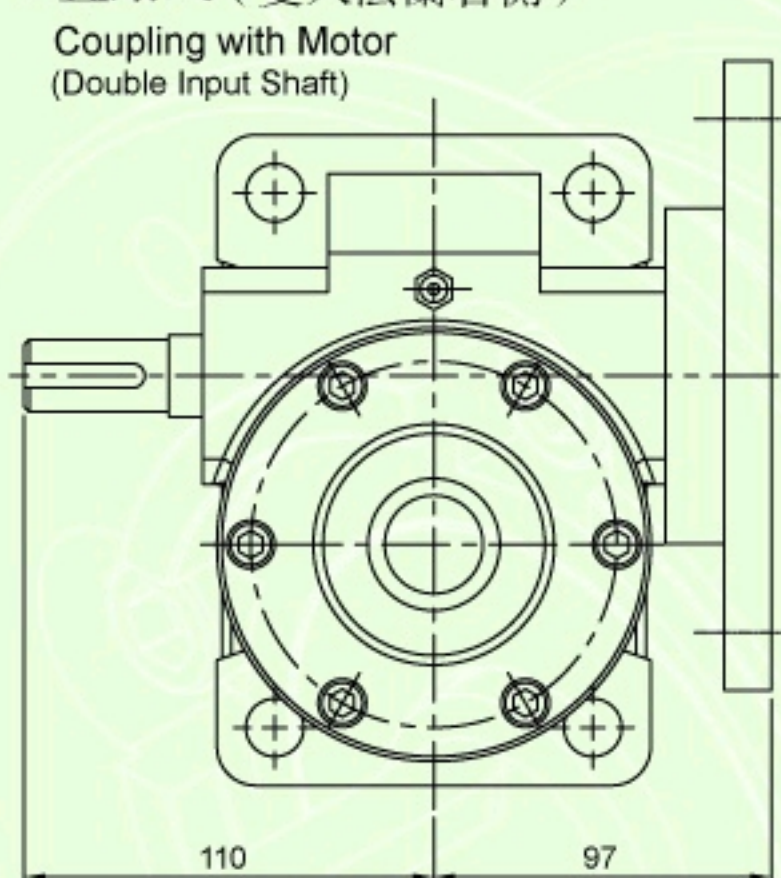
Dimensions (All dimensions are in mm.)

型號 規格 Size	螺桿直徑 Diameter	螺距 Pitch	減速比 Ratio			傳動效率 η Transmission Efficiency		
50	Ø 1-1/2"	P=6	1/6	1/12	1/24	19%	18%	17%

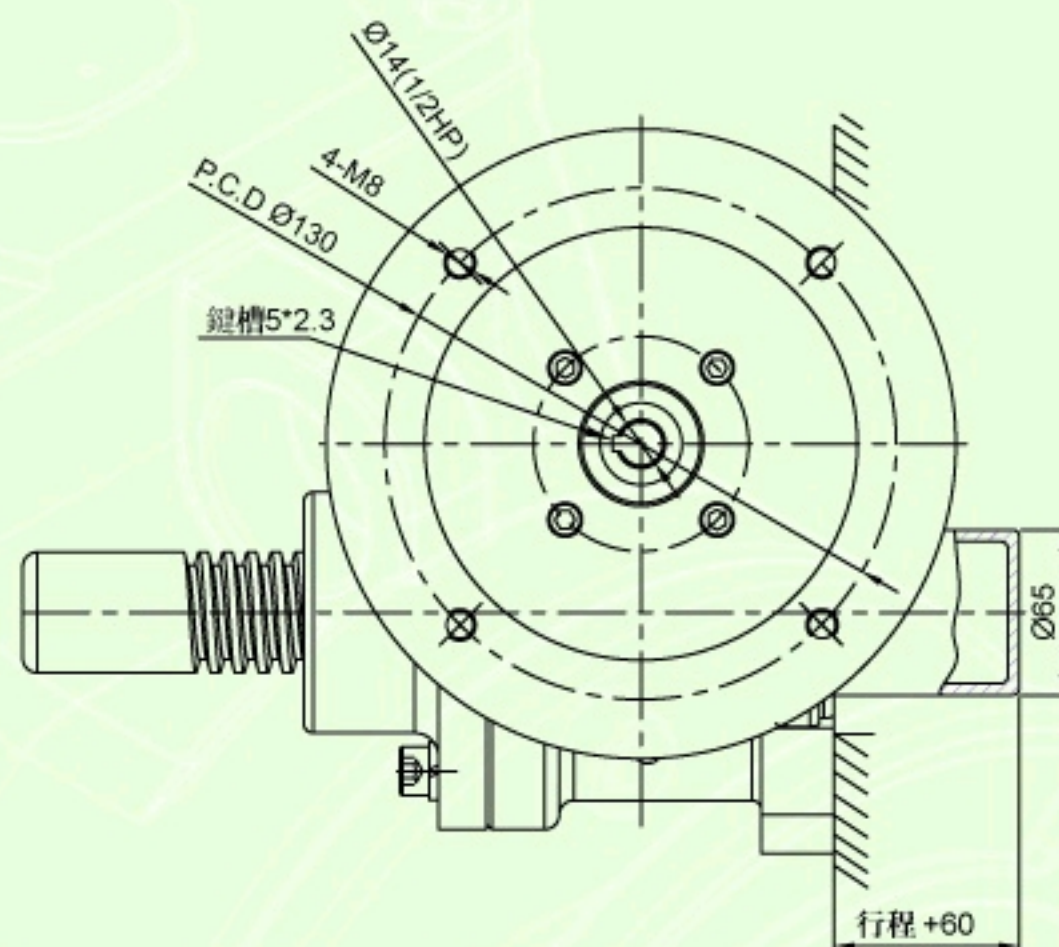
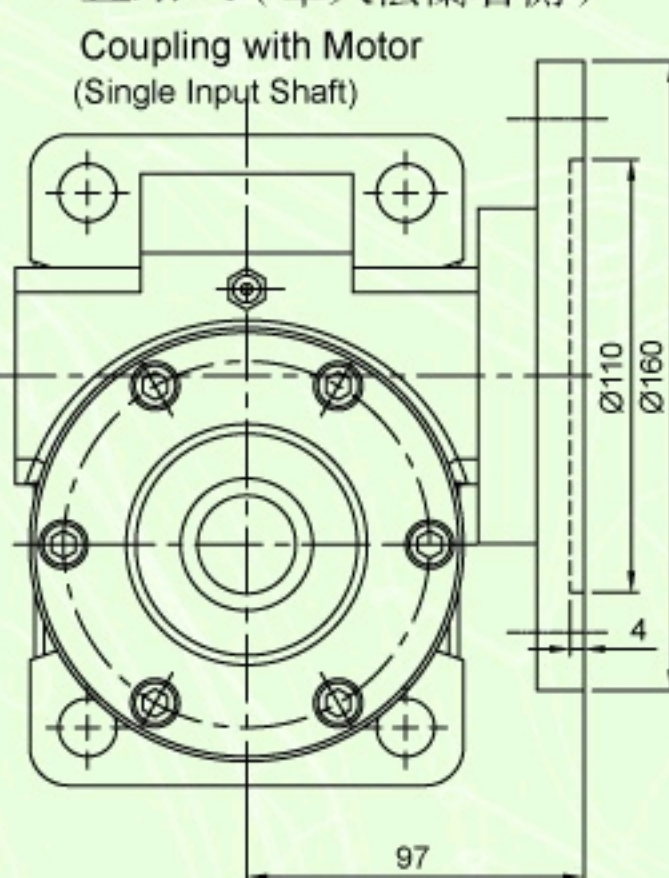
雙入力 (標準型)
Double Input Shaft (Standard Type)



1.直結式 (雙入法蘭右側)
Coupling with Motor
(Double Input Shaft)



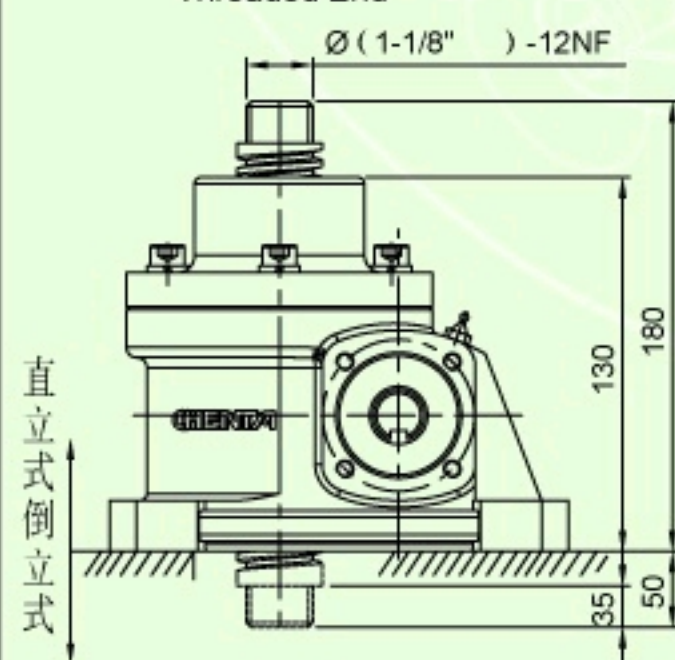
2.直結式 (單入法蘭右側)
Coupling with Motor
(Single Input Shaft)



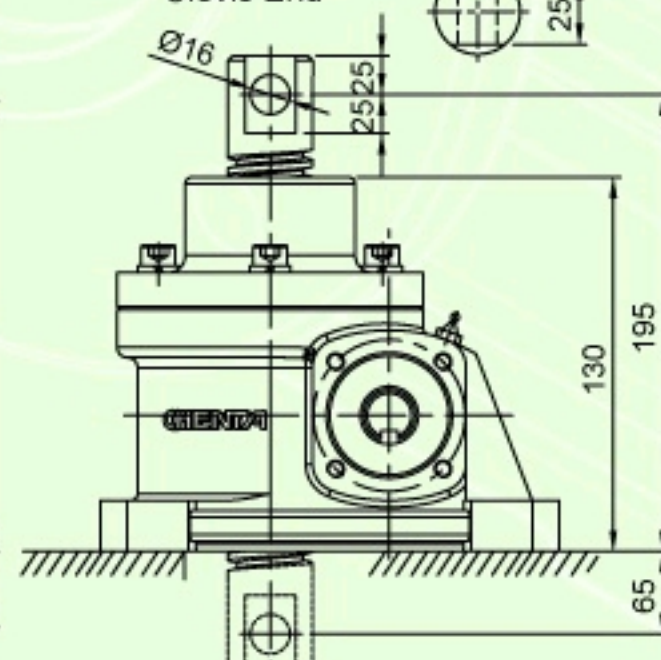
杆端型式及最短距離關係尺寸

Dimensions for screw end type and minimum distance

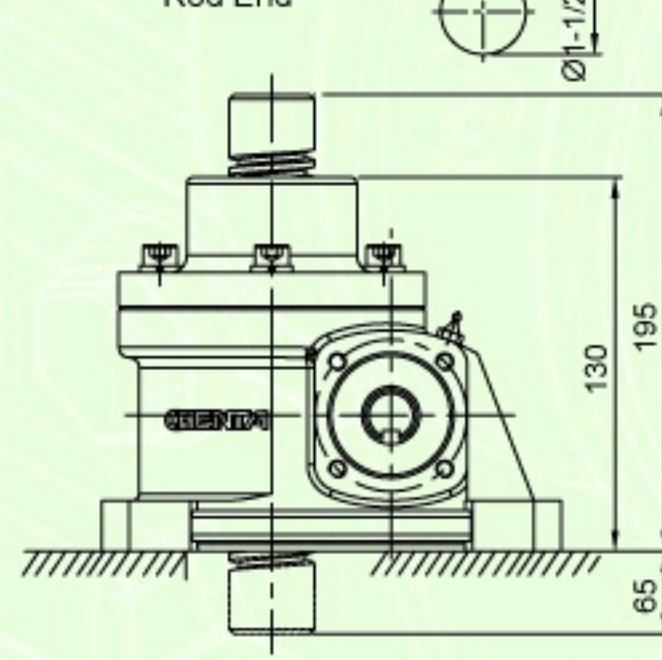
S型 (牙口式)
Threaded End



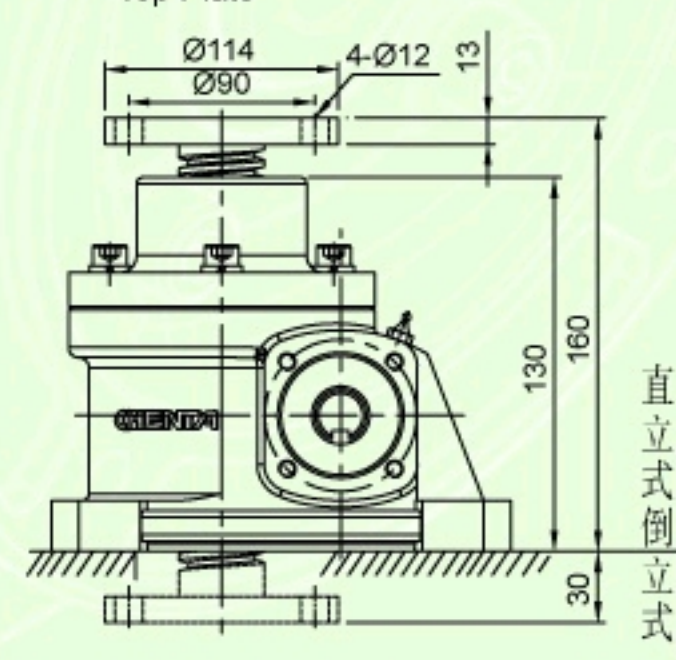
H型 (栓孔式)
Clevis End



R型 (平口式)
Rod End



T型 (頂板式)
Top Plate



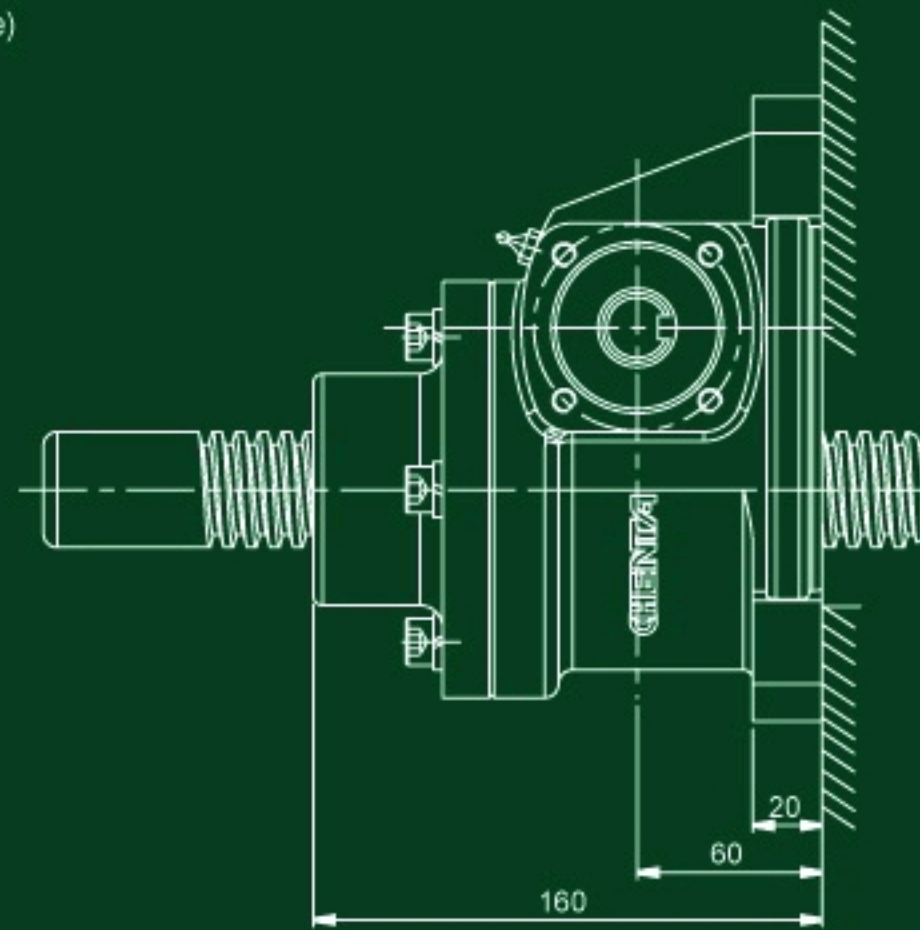
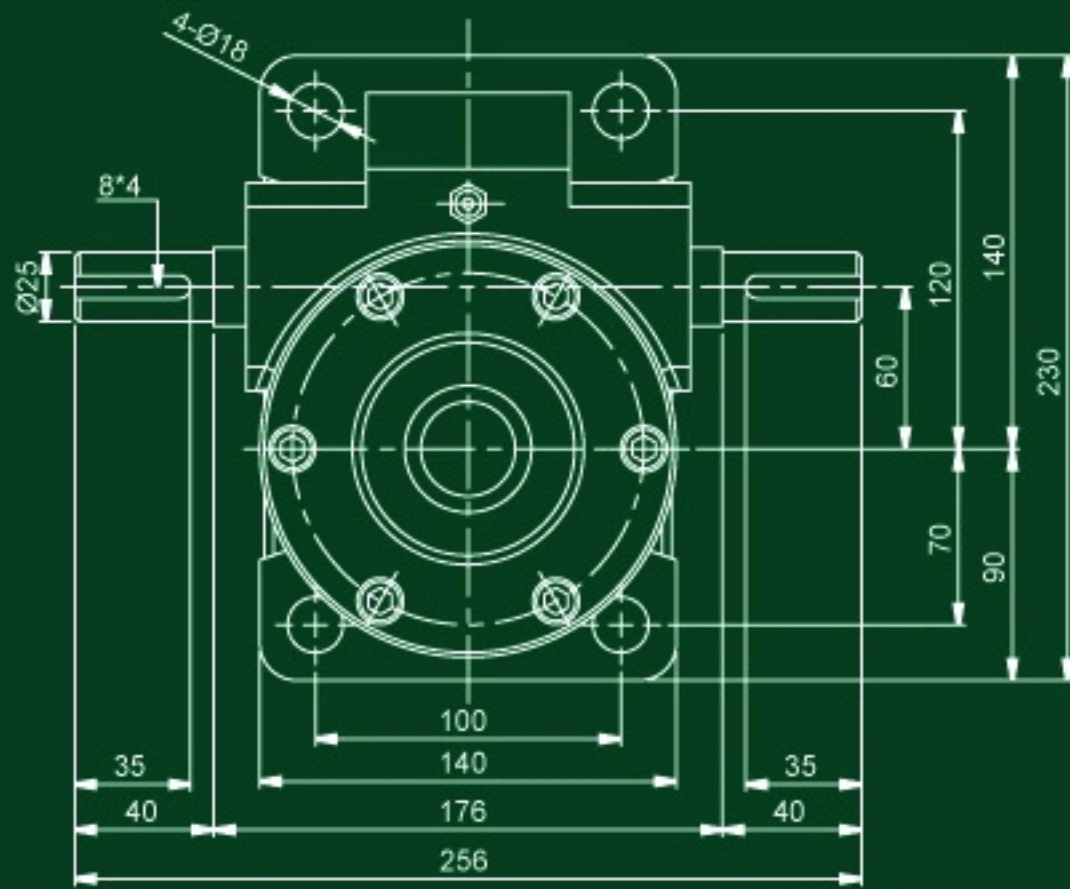
螺旋升降機外型尺寸

Dimensions (All dimensions are in mm.)

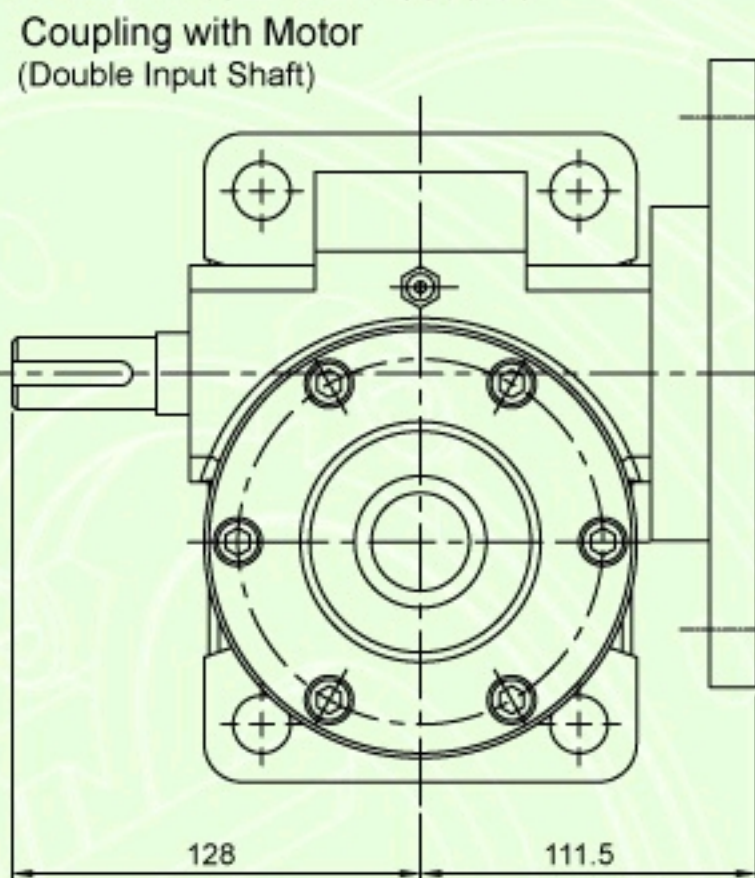


型號 規格 Size	螺桿直徑 Diameter	螺距 Pitch	減速比 Ratio			傳動效率 η Transmission Efficiency		
60	$\varnothing 1\text{-}3/4"$	P=8	1/8	1/16	1/32	18%	17%	16%

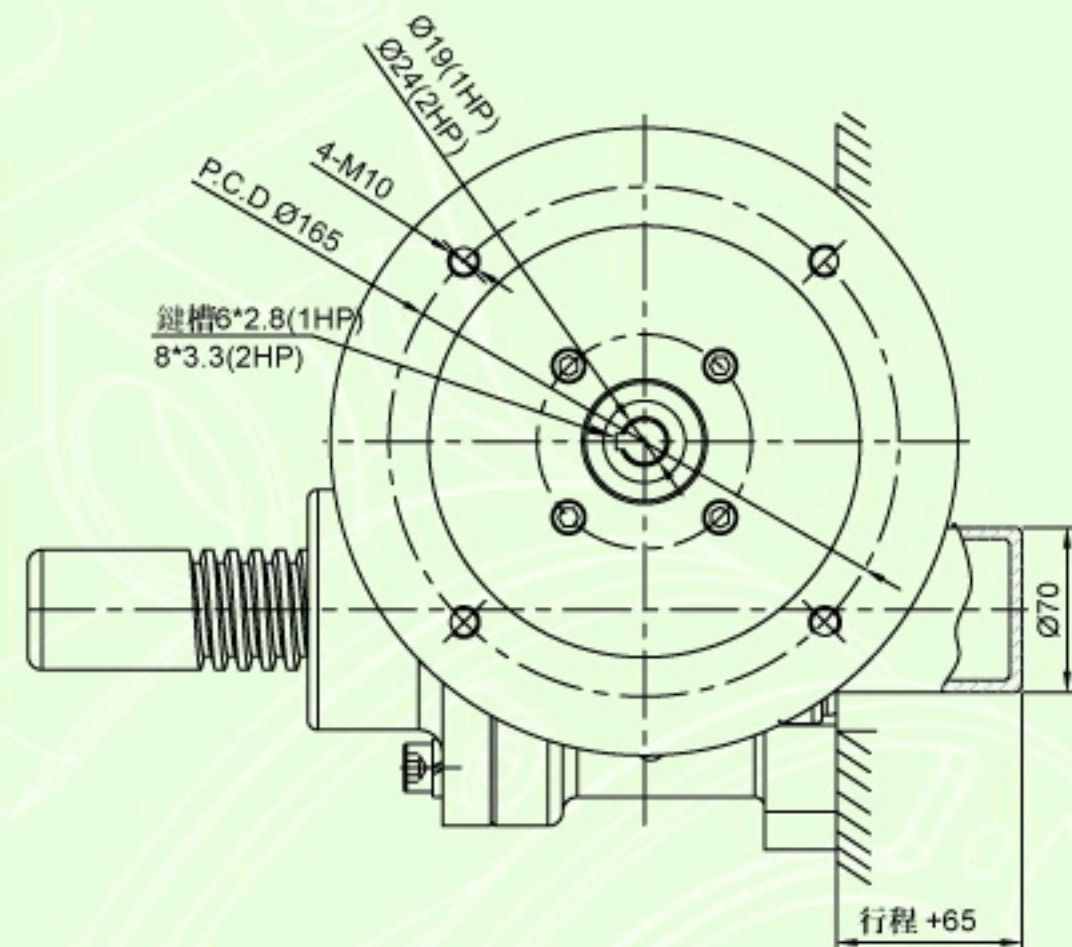
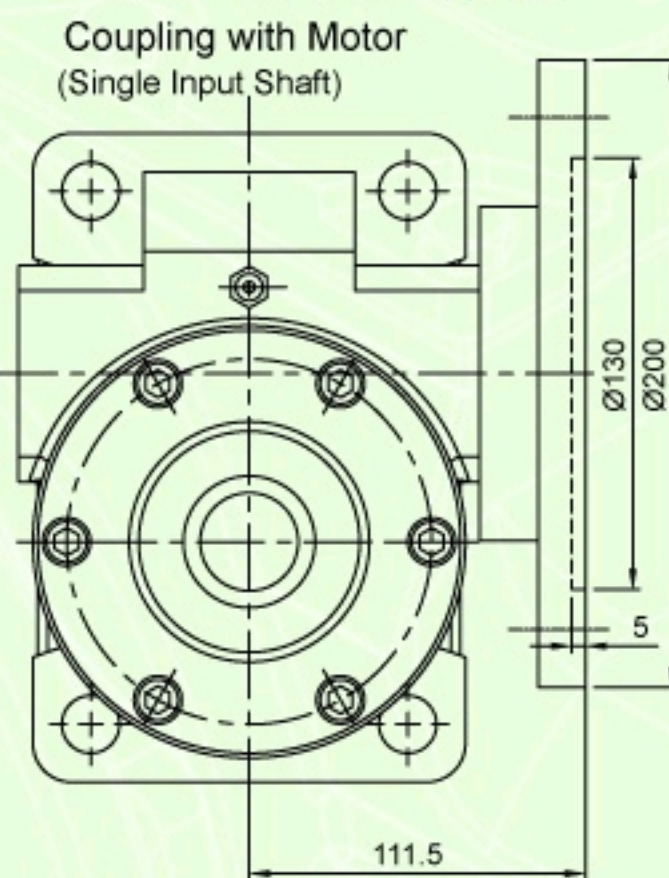
雙入力 (標準型)
Double Input Shaft (Standard Type)



1.直結式 (雙入法蘭右側)
Coupling with Motor
(Double Input Shaft)



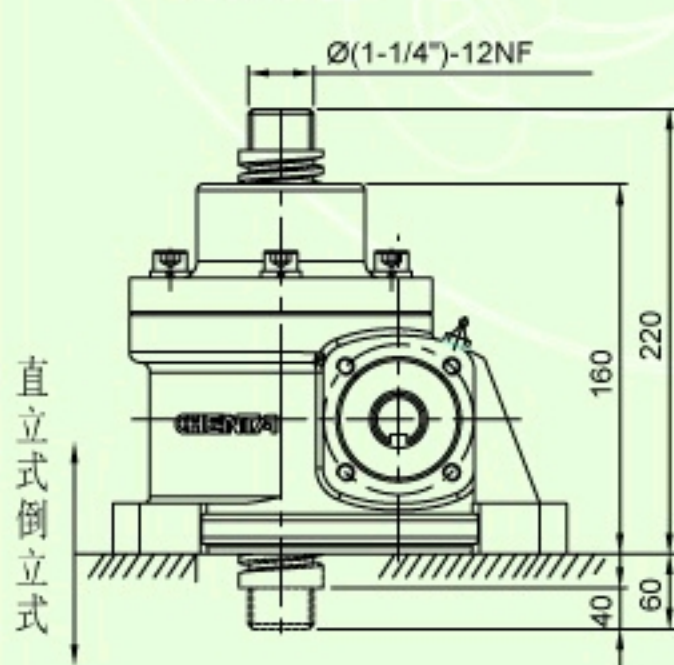
2.直結式 (單入法蘭右側)
Coupling with Motor
(Single Input Shaft)



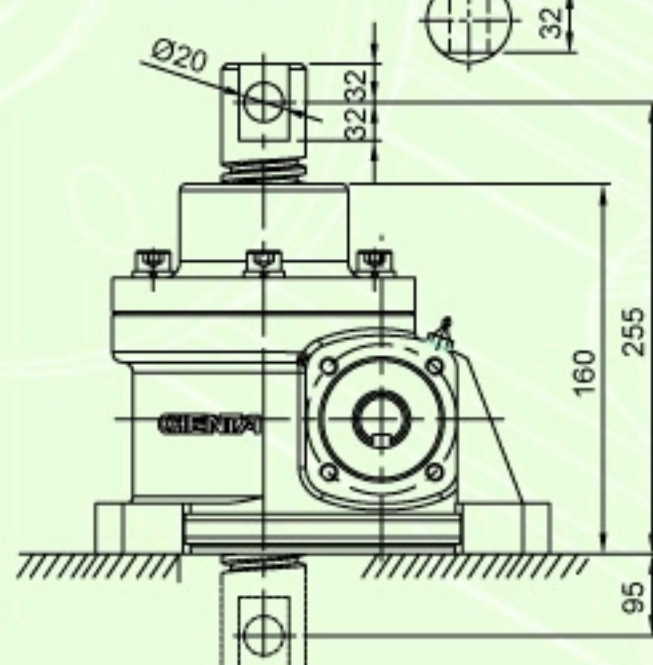
杆端型式及最短距離關係尺寸

Dimensions for screw end type and minimum distance

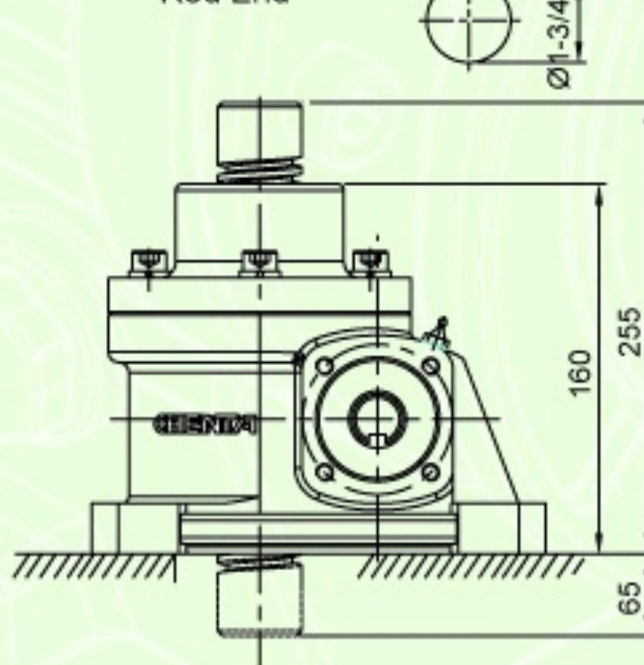
S型 (牙口式)
Threaded End



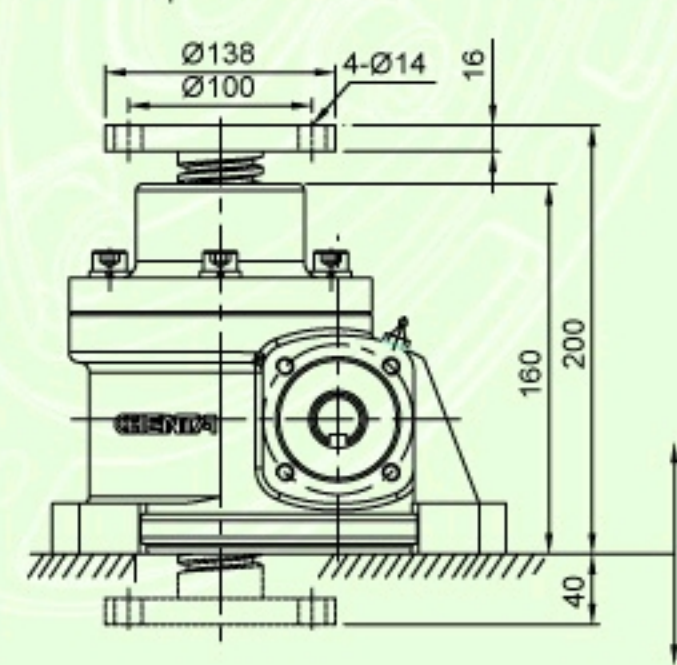
H型 (栓孔式)
Clevis End



R型 (平口式)
Rod End



T型 (頂板式)
Top Plate

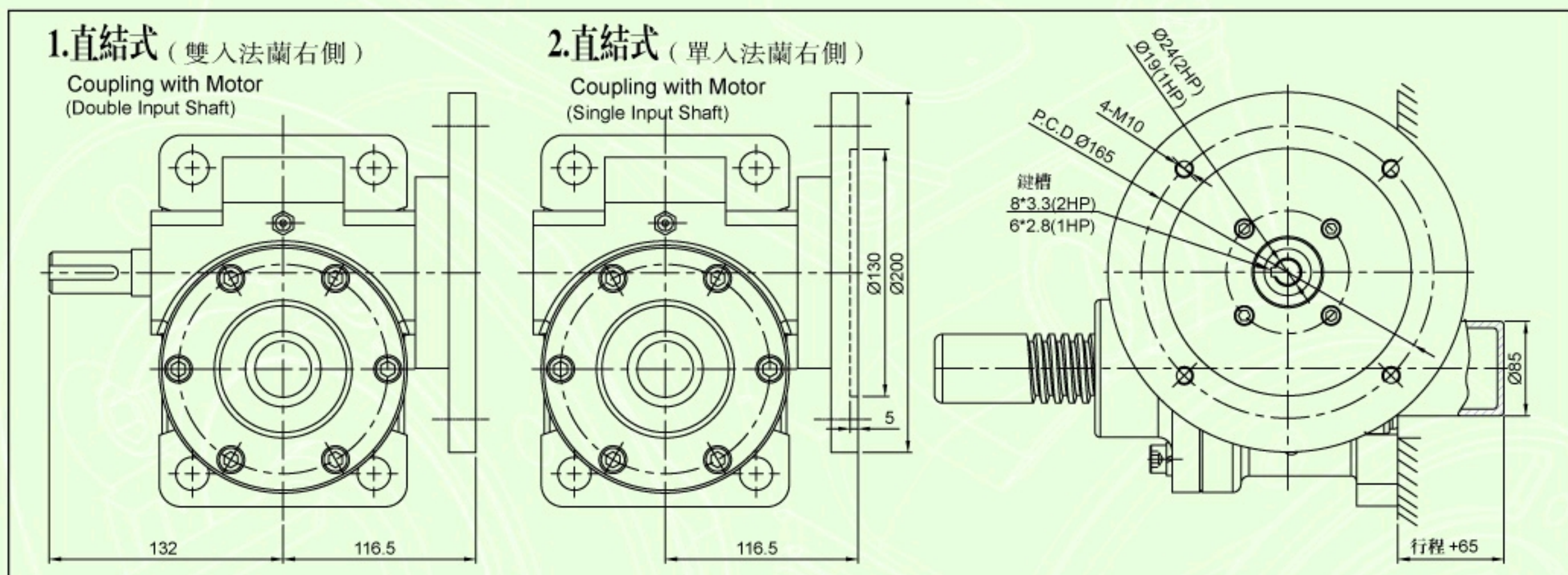
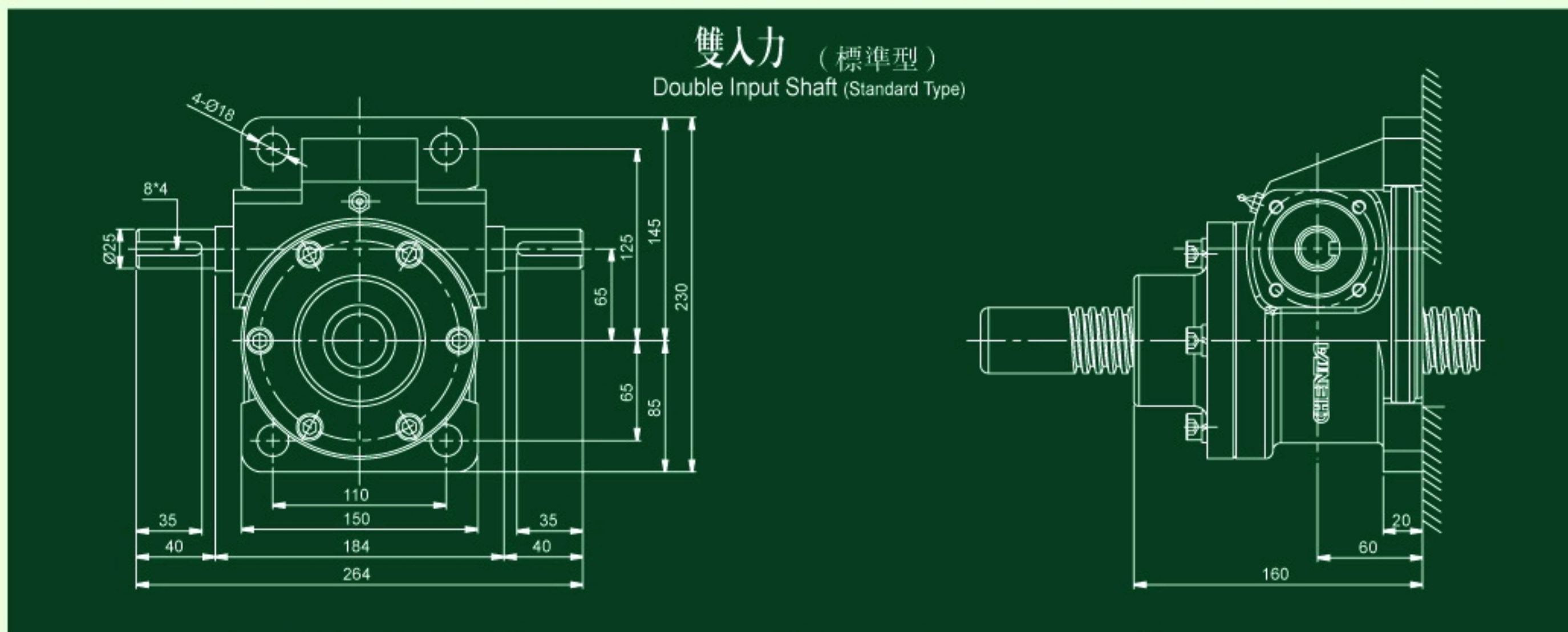




螺旋升降機外型尺寸

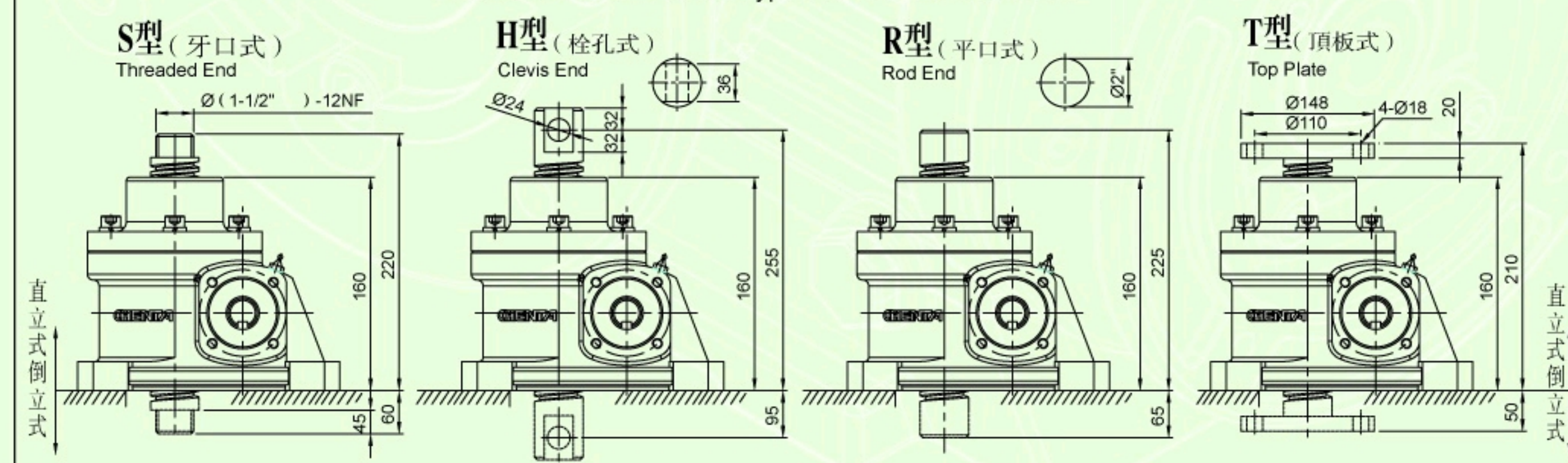
Dimensions (All dimensions are in mm.)

型號 規格 Size	螺桿直徑 Diameter	螺距 Pitch	減速比 Ratio			傳動效率 η Transmission Efficiency		
65	Ø 2"	P=8	1/8	1/16	1/32	19%	18%	17%



杆端型式及最短距離關係尺寸

Dimensions for screw end type and minimum distance



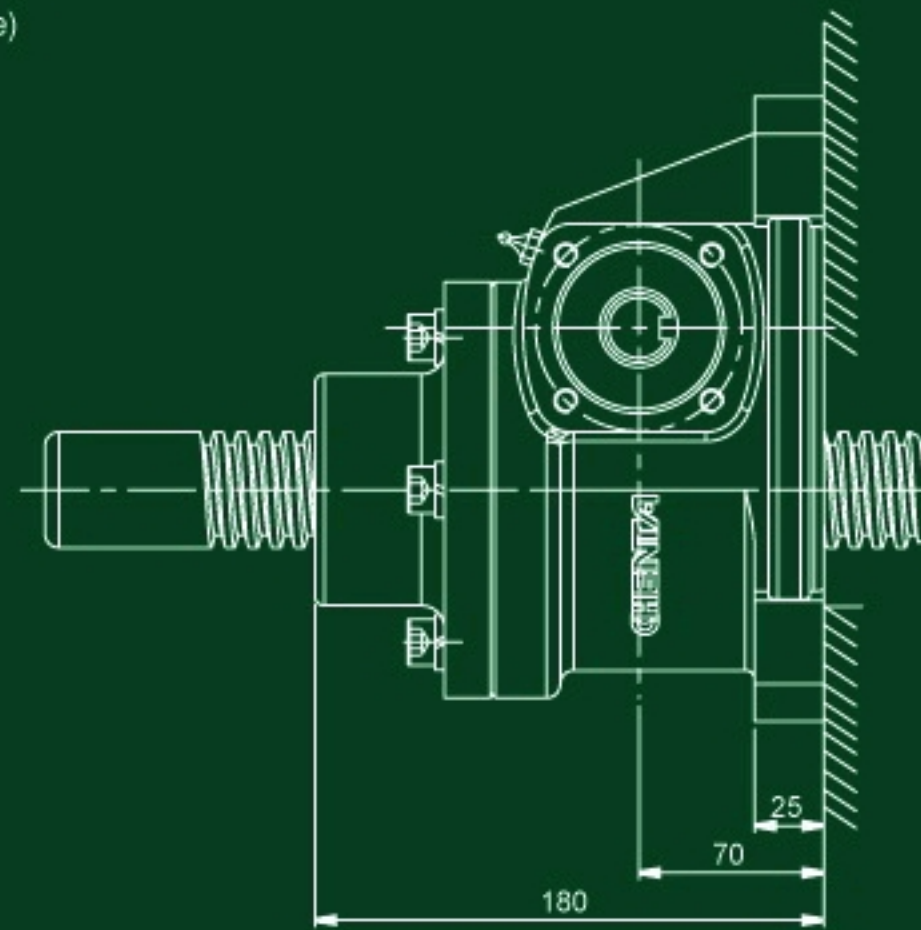
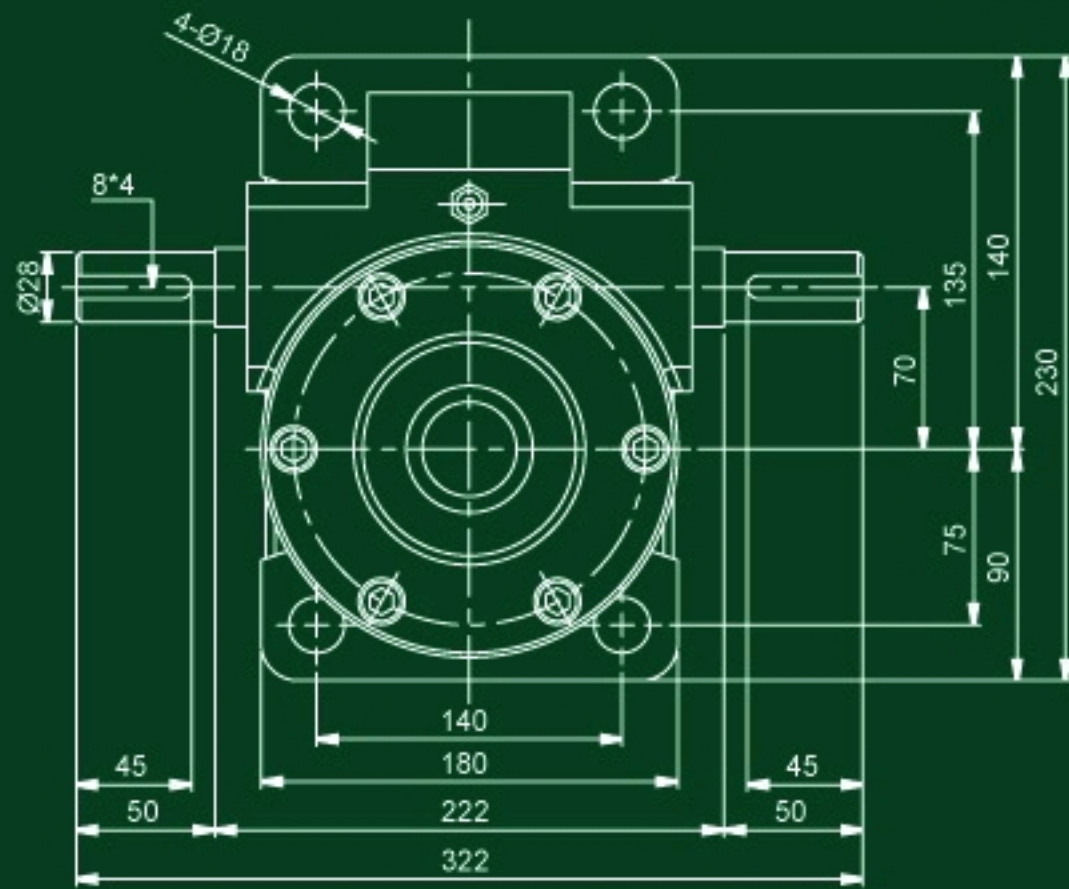
螺旋升降機外型尺寸

Dimensions (All dimensions are in mm.)

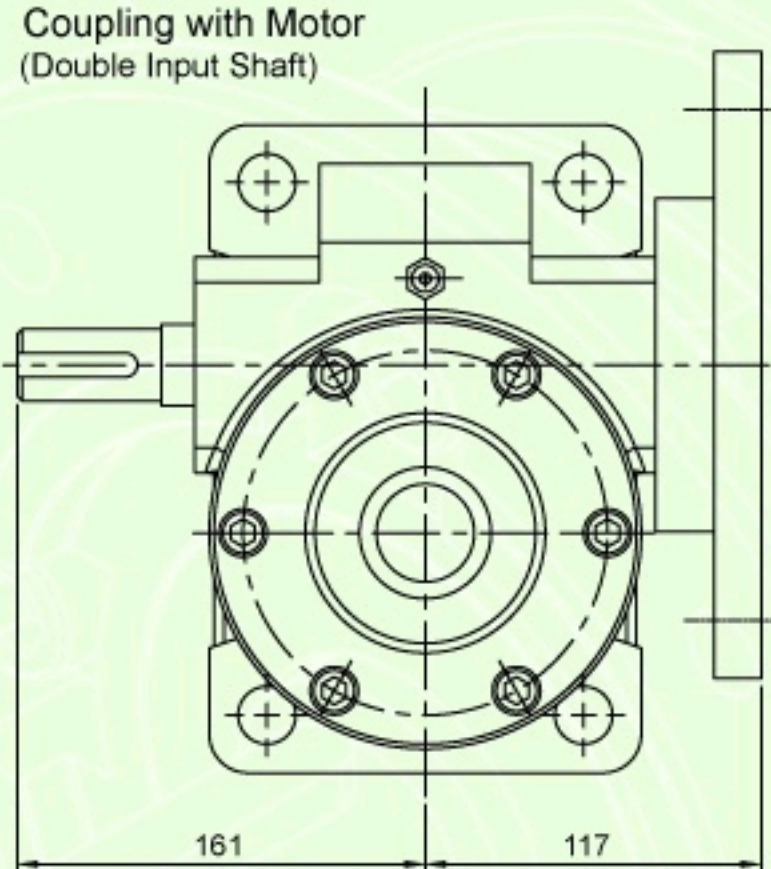


型號 規格 Size	螺桿直徑 Diameter	螺距 Pitch	減速比 Ratio			傳動效率 η Transmission Efficiency		
70	$\varnothing 2\text{-}1/2''$	P=10	1/10	1/20	1/40	15%	15%	15%

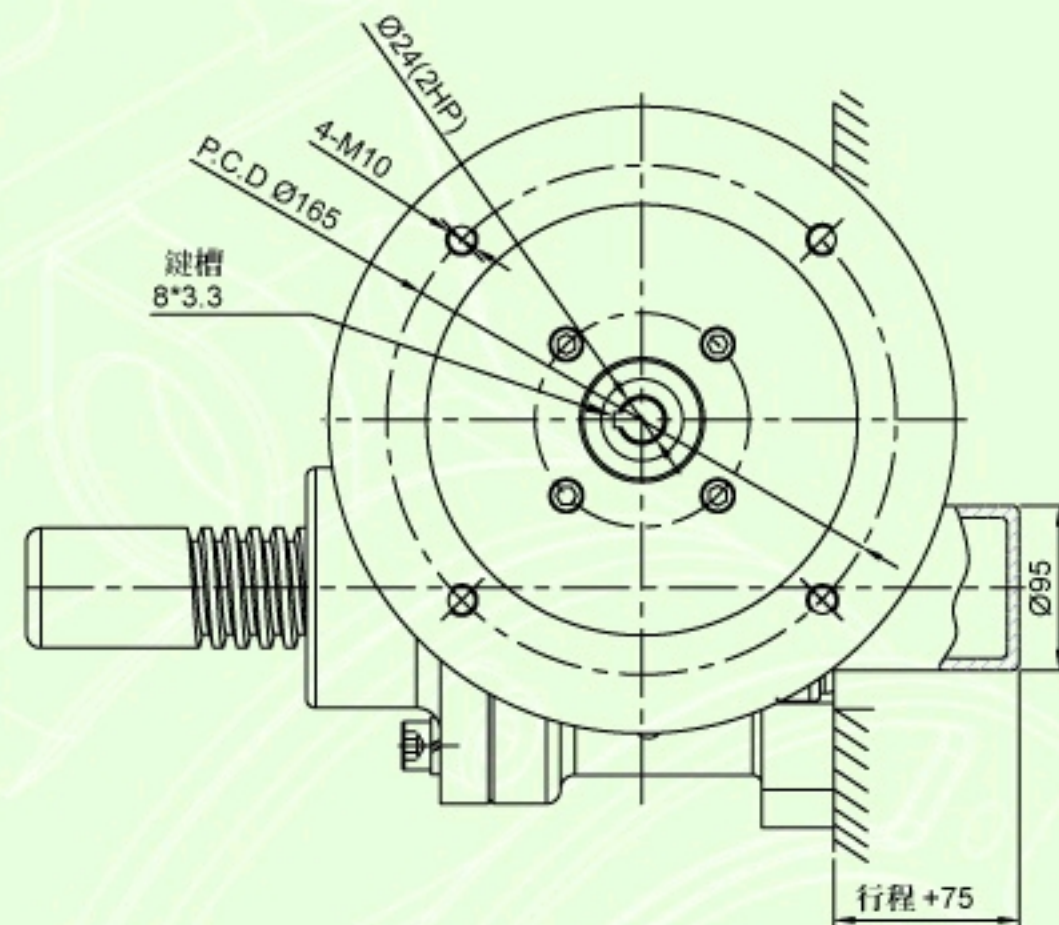
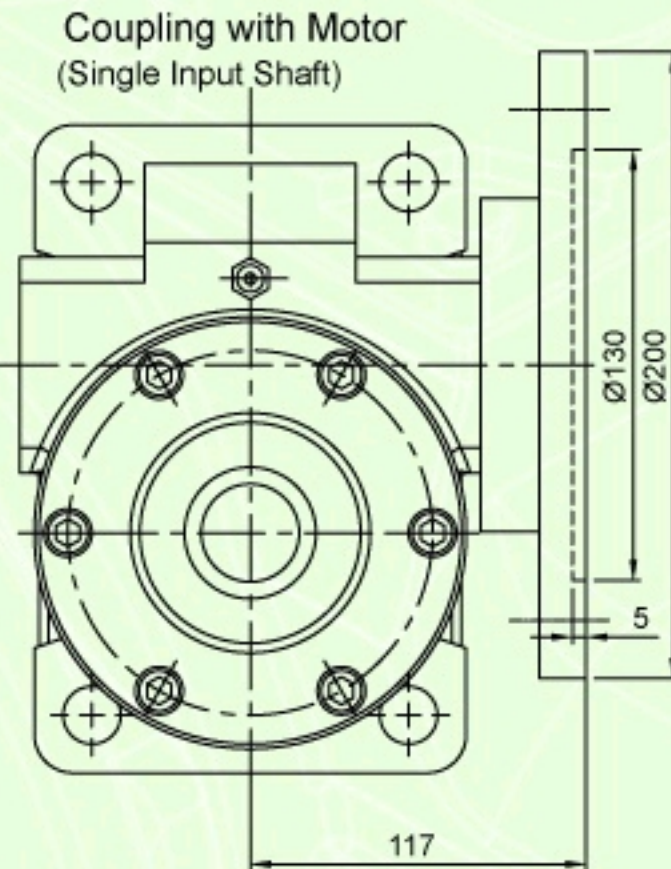
雙入力 (標準型)
Double Input Shaft (Standard Type)



1.直結式 (雙入法蘭右側)
Coupling with Motor
(Double Input Shaft)



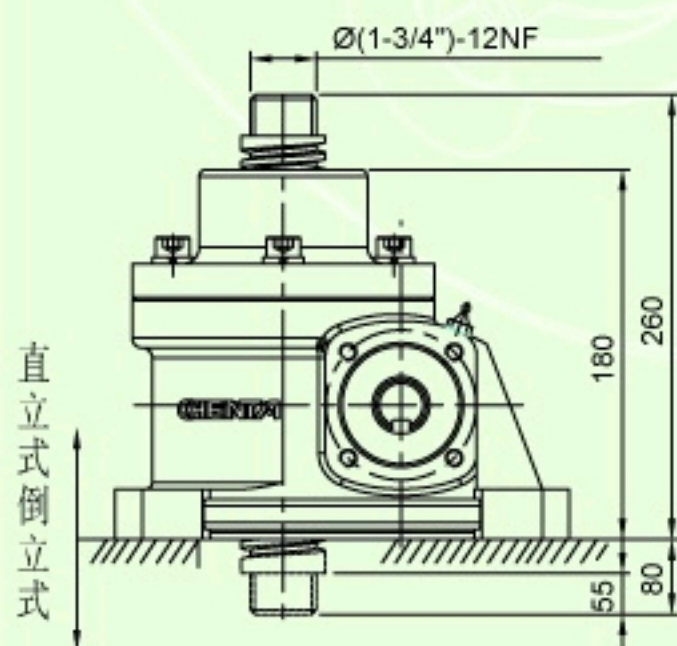
2.直結式 (單入法蘭右側)
Coupling with Motor
(Single Input Shaft)



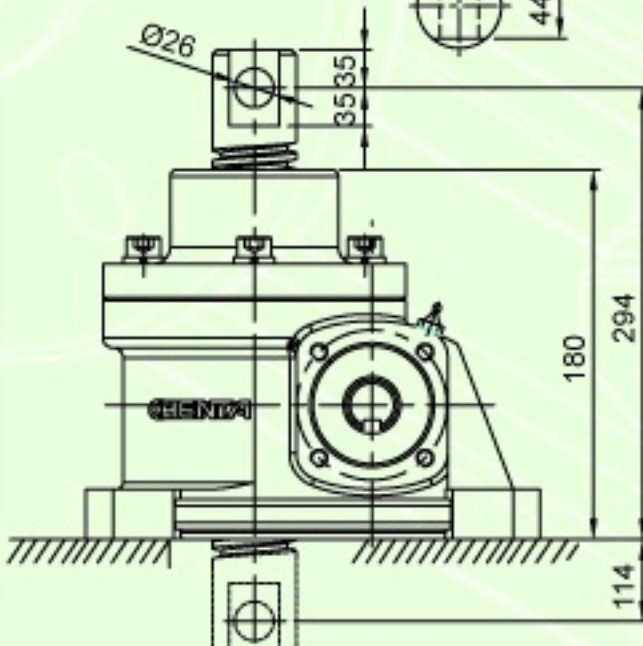
杆端型式及最短距離關係尺寸

Dimensions for screw end type and minimum distance

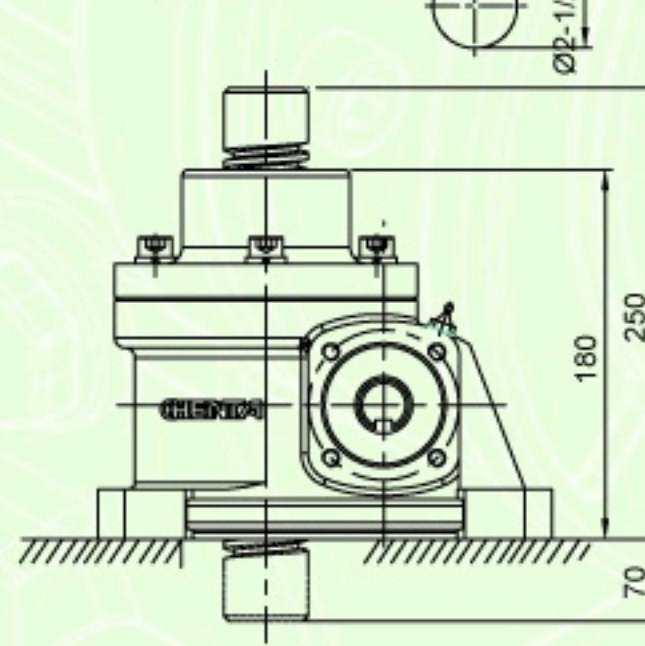
S型 (牙口式)
Threaded End



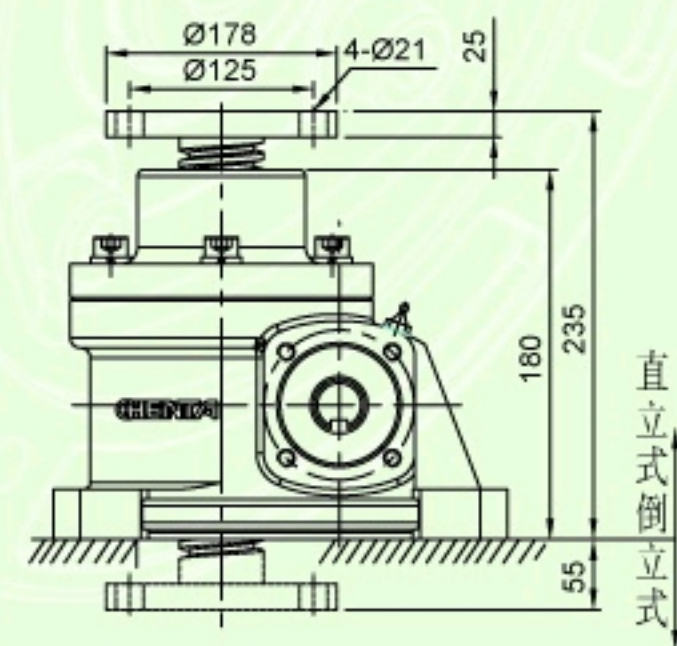
H型 (栓孔式)
Clevis End



R型 (平口式)
Rod End



T型 (頂板式)
Top Plate



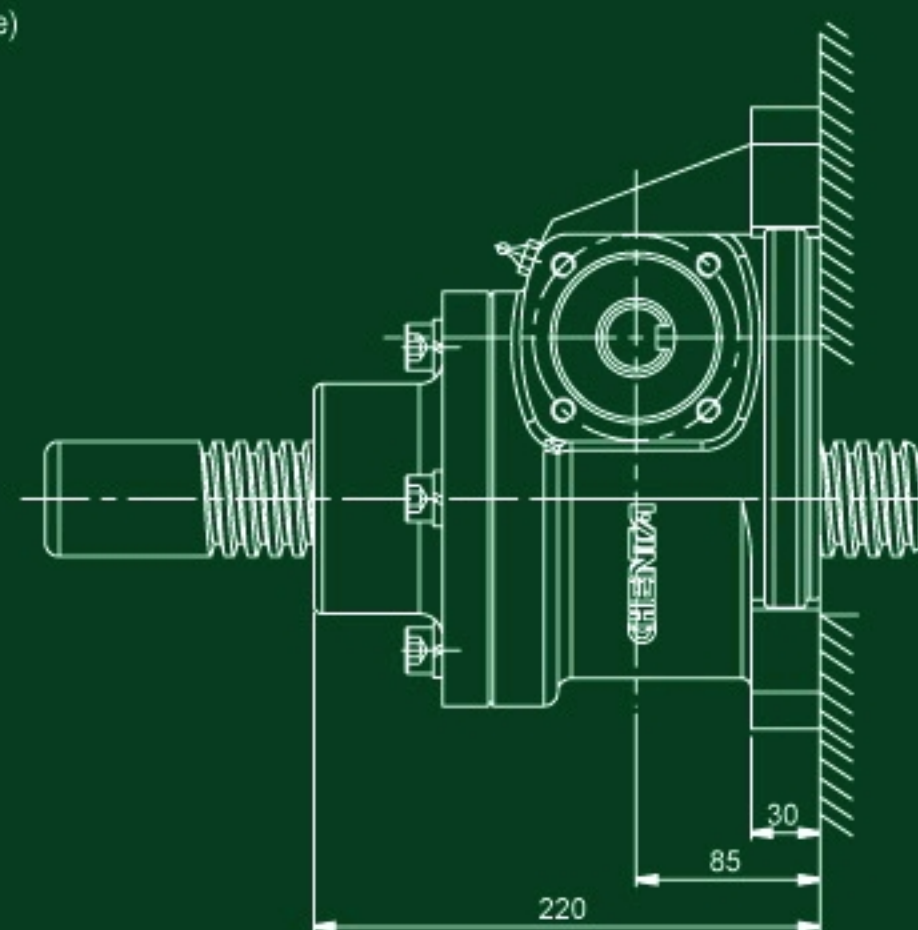
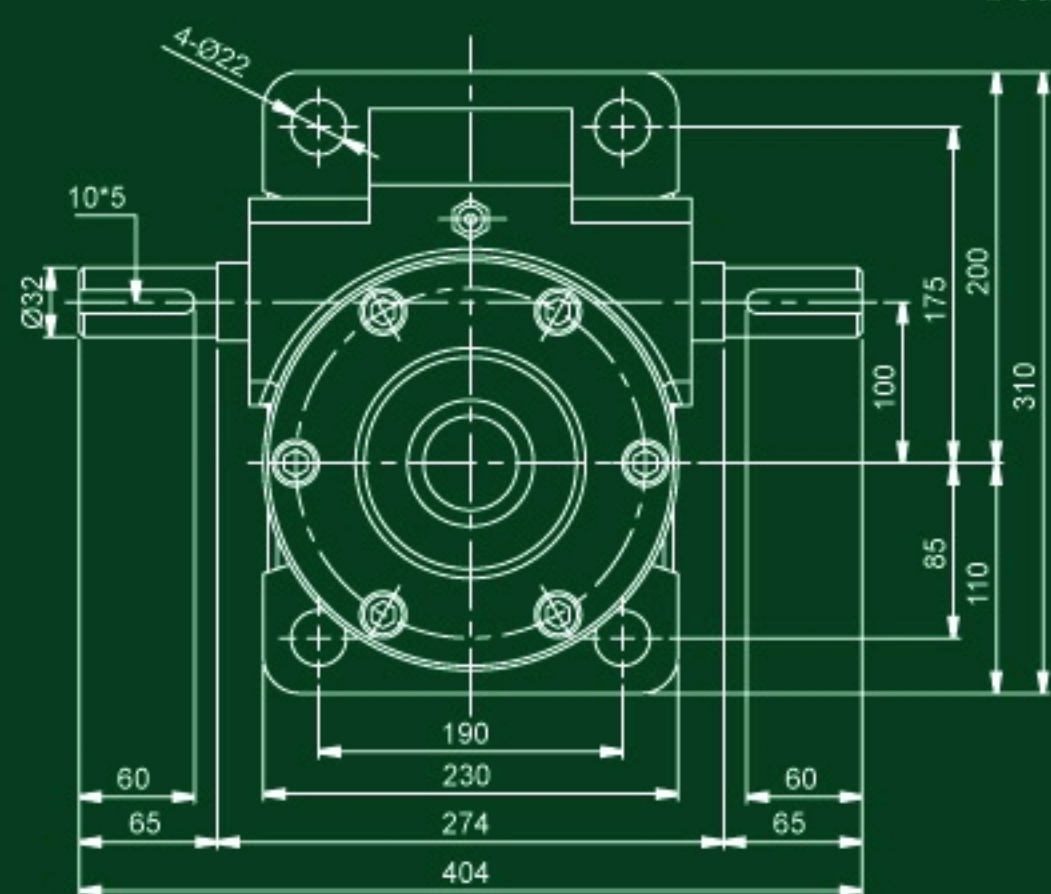


螺旋升降機外型尺寸

Dimensions (All dimensions are in mm.)

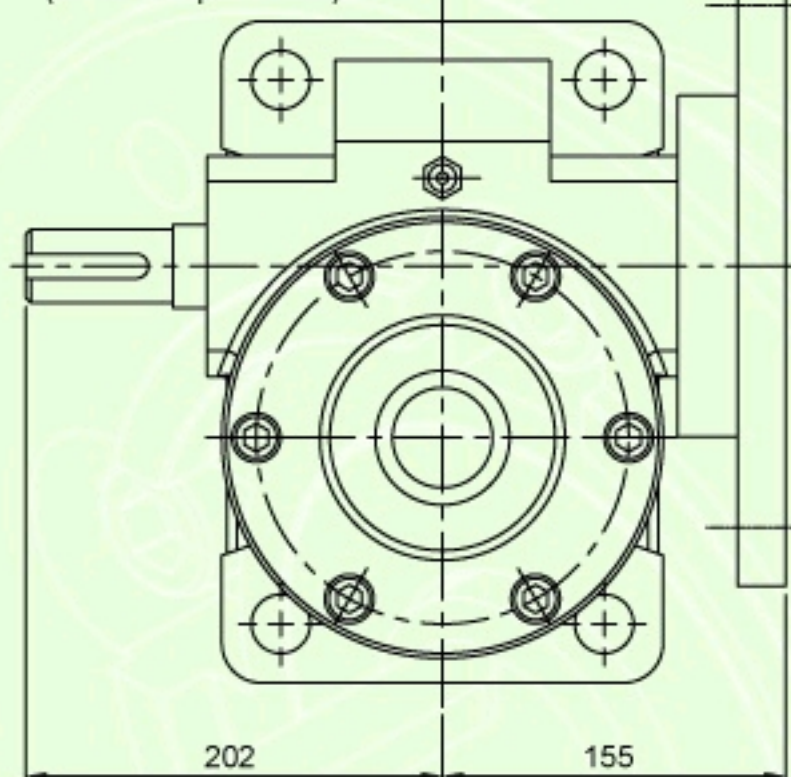
型號 規格 Size	螺桿直徑 Diameter	螺距 Pitch	減速比 Ratio			傳動效率 η Transmission Efficiency		
100	Ø 75mm	P=12	1/12	1/18	1/36	15%	14%	13%

雙入力 (標準型)
Double Input Shaft (Standard Type)



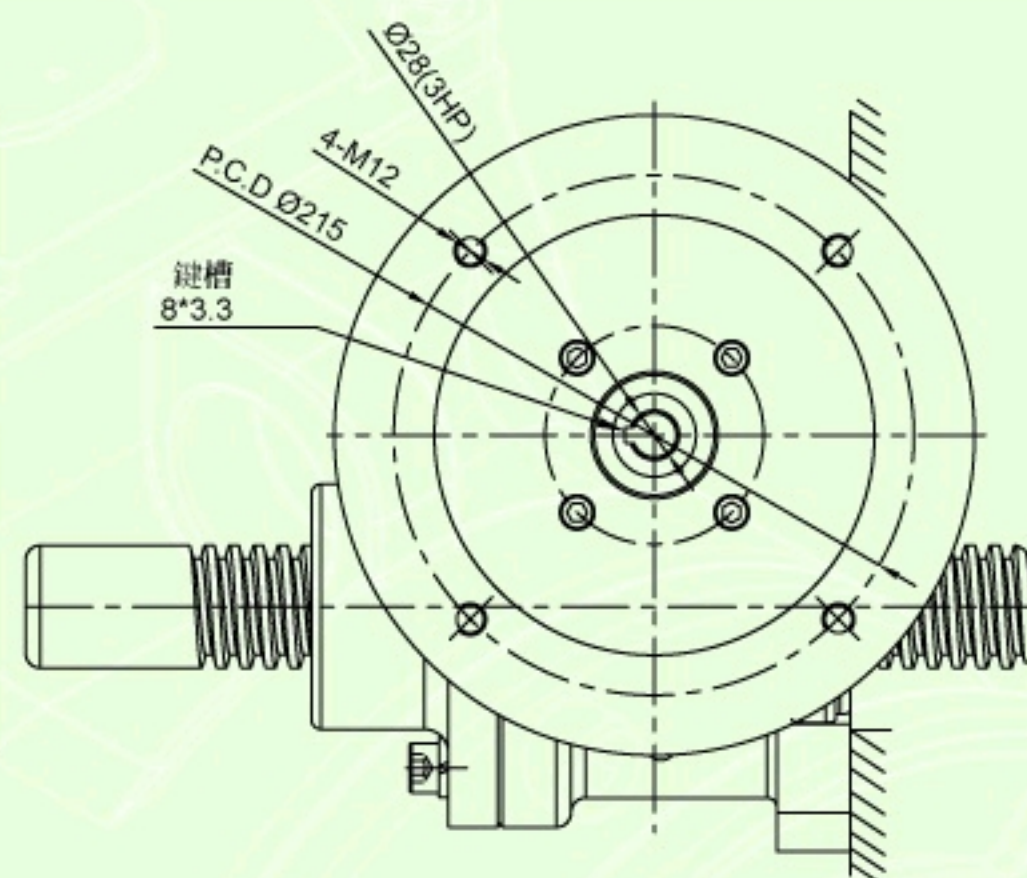
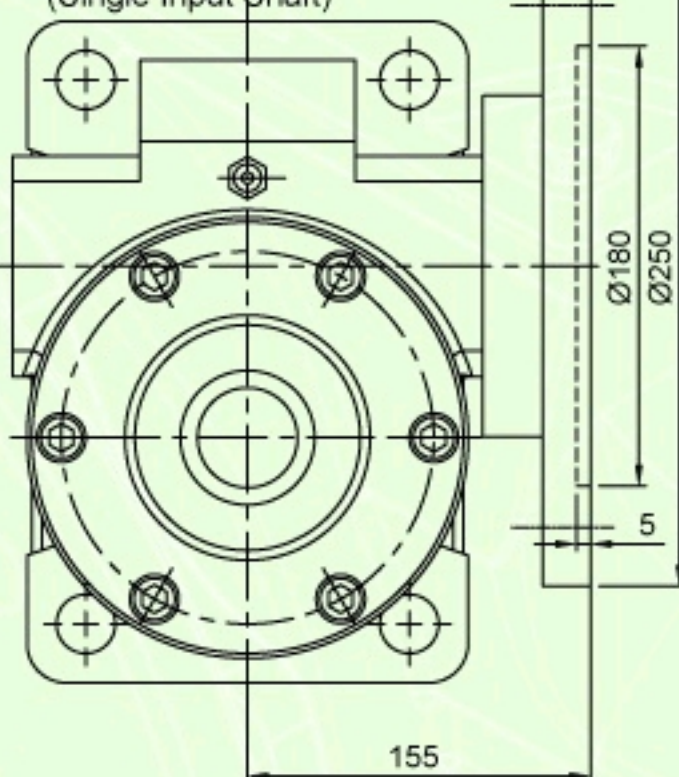
1.直結式 (雙入法蘭右側)

Coupling with Motor
(Double Input Shaft)



2.直結式 (單入法蘭右側)

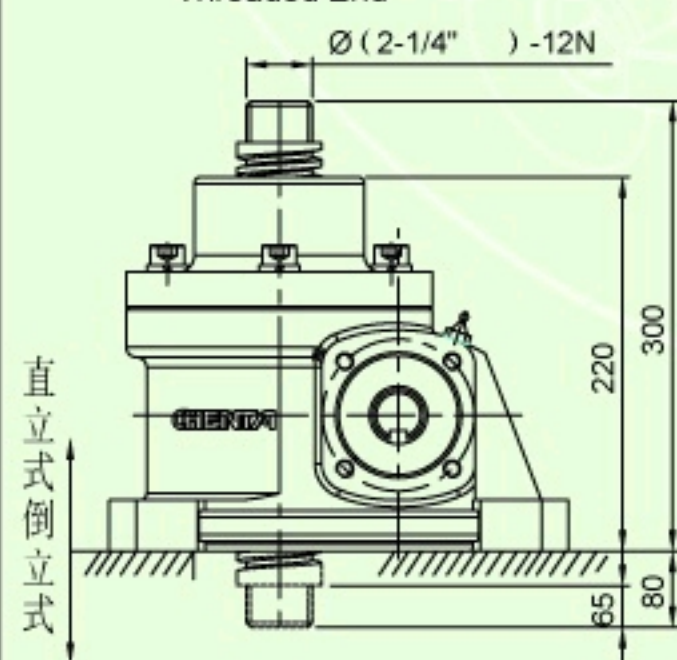
Coupling with Motor
(Single Input Shaft)



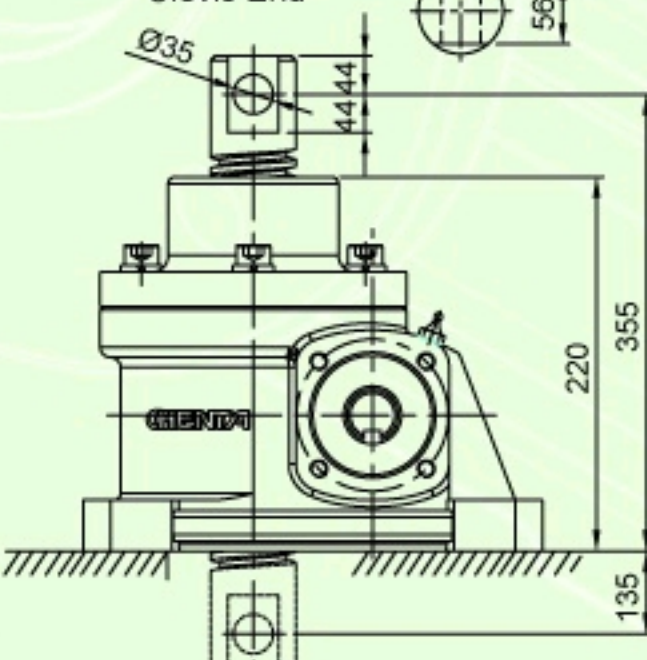
杆端型式及最短距離關係尺寸

Dimensions for screw end type and minimum distance

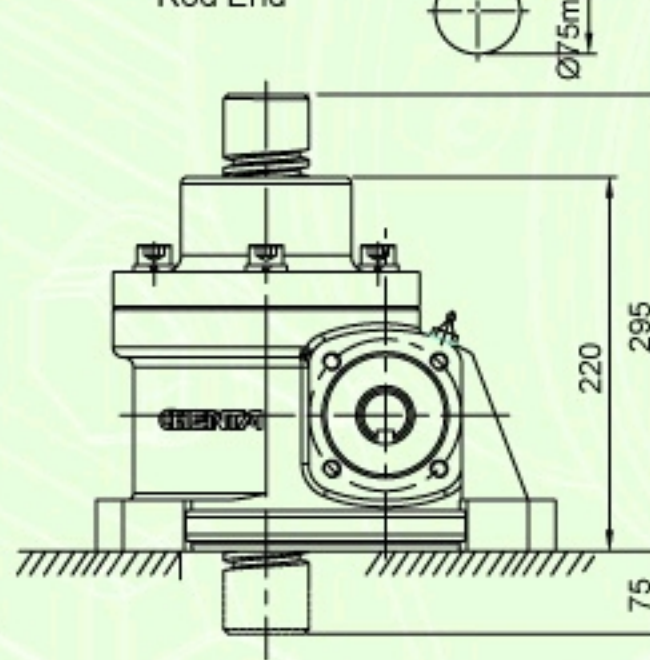
S型 (牙口式)
Threaded End



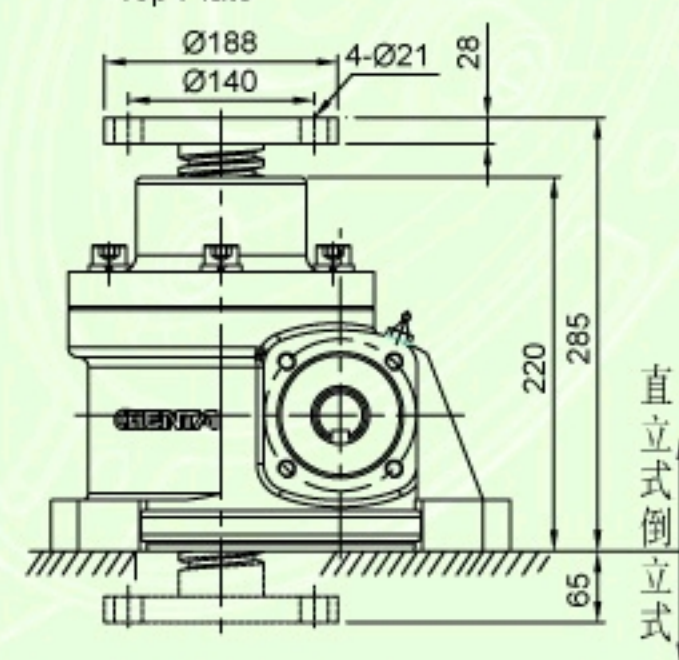
H型 (栓孔式)
Clevis End



R型 (平口式)
Rod End



T型 (頂板式)
Top Plate



螺旋升降機螺桿長度計算

Calculation of Screw End Length



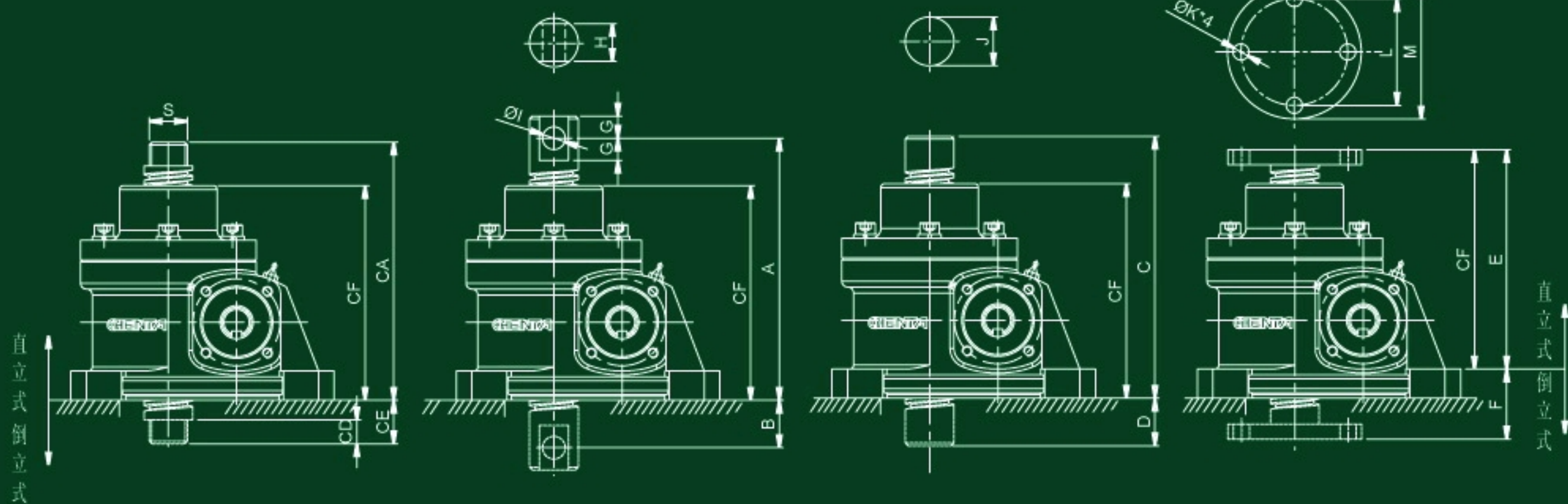
螺桿端型式 End Condition

S型 (牙口式)
Threaded End

H型 (栓孔式)
Clevis End

R型 (平口式)
Rod End

T型 (頂板式)
Top Plate



直立式: Vertical type
倒立式: Horizontal type

型號 Model	CA	CD	CE	CF	S	A	B	C	D	E	F	G	H	I	J	K	L	M	N
35	150	28	40	110	5/8"-18NF	165	55	165	55	135	25	20	16	12	1"	10	70	88	10
40	180	32	50	130	7/8"-14NF	195	65	195	65	160	30	25	20	14	1 1/4"	10	80	98	13
50	180	35	50	130	1 1/8"-12NF	195	65	195	65	160	30	25	25	16	1 1/2"	12	90	114	13
60	220	40	60	160	1 1/4"-12NF	255	95	225	65	200	40	32	32	20	1 3/4"	14	100	138	16
65	220	45	60	160	1 1/2"-12NF	255	95	225	65	210	50	32	36	24	2"	18	110	148	20
70	260	55	80	180	1 3/4"-12N	294	114	250	70	235	55	35	44	26	2 1/2"	21	125	178	25
100	300	65	80	220	2 1/4"-12N	355	135	295	75	285	65	44	56	35	75m/m	21	140	188	28

螺桿升降行程與螺桿長度計算 (在不同的杆端如下) Length of Screw

《下表為行程=300m/m和型式計算範例》

(Length of screw refers to 300m/m)

型號	直徑	螺距	行程 (例) 300m/m 護管長	杆端S型		杆端H型		杆端R型		杆端T型	
				機身+CE+行程 =螺桿總長	螺桿總長-CE =牙長	機身+B+G+行程 =螺桿總長	螺桿總長-B-G =牙長	機身+D+行程 =螺桿總長	螺桿總長-D =牙長	機身+F+行程 =螺桿總長	螺桿總長-F =牙長
35	1"	P=5	300+55=355	110+40+300=450	450-40=410	110+55+20+300=485	485-20-55=410	110+55+300=465	465-55=410	110+25+300=435	435-25=410
40	1 1/4"	P=6	300+60=360	130+50+300=480	480-50=430	130+65+25+300=520	520-65-25=430	130+65+300=495	495-65=430	130+30+300=460	460-30=430
50	1 1/2"	P=6	300+60=360	130+50+300=480	480-50=430	130+65+25+300=520	520-65-25=430	130+65+300=495	495-65=430	130+30+300=460	460-30=430
60	1 3/4"	P=8	300+65=365	160+60+300=520	520-60=460	160+95+32+300=587	587-95-32=460	160+65+300=525	525-65=460	160+40+300=500	500-40=460
65	2"	P=8	300+65=365	160+60+300=520	520-60=460	160+95+32+300=587	587-95-32=460	160+65+300=525	525-65=460	160+50+300=510	510-50=460
70	2 1/2"	P=10	300+75=375	180+80+300=560	560-80=480	180+114+35+300=629	629-114-35=480	180+70+300=550	550-70=480	180+55+300=535	535-55=480
100	75m/m	P=12		220+80+300=600	600-80=520	220+135+44+300=699	699-135-44=520	220+75+300=595	595-75=520	220+65+300=585	585-65=520

型號:Model 直徑:Diameter 螺距:Pitch 行程:Screw Length 護管長:Protection Sleeve Length 機身=CF 螺桿總長:End Shaft Length 牙長:Thread Length

注: 如有特定尺寸請附圖另行製造。以上尺寸如有更動恕不另行通知。

Remarks: Dimensions are subject to change without notice.



入力軸馬力與負載及升降速度關係

Rating Data

入力軸馬力與負載及升降速度關係

型號 Model 大小 Size 能力 Capacity	升降 梯形螺紋 Lifting screw 直徑 Diameter 螺距 Pitch	蝸輪 減速比 Ratio	1800 RPM 入力回轉數 Input RPM			1500 RPM 入力回轉數 Input RPM			1200 RPM 入力回轉數 Input RPM			900 RPM 入力回轉數 Input RPM			600 RPM 入力回轉數 Input RPM			300 RPM 入力回轉數 Input RPM		
			輸入 功率 Input Power (KW)	舉升 負荷 Lifting Load (KG)	舉升 速度 Lifting Speed (mm/min)	輸入 功率 Input Power (KW)	舉升 負荷 Lifting Load (KG)	舉升 速度 Lifting Speed (mm/min)	輸入 功率 Input Power (KW)	舉升 負荷 Lifting Load (KG)	舉升 速度 Lifting Speed (mm/min)	輸入 功率 Input Power (KW)	舉升 負荷 Lifting Load (KG)	舉升 速度 Lifting Speed (mm/min)	輸入 功率 Input Power (KW)	舉升 負荷 Lifting Load (KG)	舉升 速度 Lifting Speed (mm/min)	輸入 功率 Input Power (KW)	舉升 負荷 Lifting Load (KG)	舉升 速度 Lifting Speed (mm/min)
35	Ø1"	1/5	0.70	500	1800	0.65	550	1500	0.65	700	1200	0.63	900	900	0.47	1000	600	0.38	1000	300
	ACME	1/10	0.38	500	900	0.38	550	750	0.38	700	600	0.38	750	450	0.38	1000	300	0.19	1350	150
	P=5	1/20	0.38	600	450	0.38	700	375	0.38	900	300	0.38	1200	225	0.19	1350	150	0.19	1350	75
40	Ø1 1/4"	1/6	0.98	700	1800	0.94	800	1500	0.89	950	1200	0.92	1300	900	0.84	1800	600	0.42	1800	300
	ACME	1/12	0.67	950	900	0.65	1100	750	0.61	1300	600	0.58	1650	450	0.47	2000	300	0.38	2000	150
	P=6	1/24	0.38	450	450	0.38	1100	375	0.38	1300	300	0.38	1650	225	0.38	2000	150	0.19	2000	75
50	Ø1 1/2"	1/6	1.40	900	1800	1.29	1000	1500	1.25	1200	1200	1.16	1500	900	0.88	1700	600	0.54	2100	300
	ACME	1/12	1.10	1350	900	1.02	1500	750	0.98	1800	600	0.88	2150	450	0.59	2150	300	0.38	2500	150
	P=6	1/24	0.78	1800	450	0.72	2000	375	0.69	2400	300	0.55	2550	225	0.42	2900	150	0.38	2850	75
60	Ø1 3/4"	1/8	2.13	1300	1800	1.98	1450	1500	1.86	1700	1200	1.73	2100	900	1.67	3050	600	1.31	4800	300
	ACME	1/16	1.13	1300	900	1.05	1450	750	0.98	1700	600	0.95	2200	450	0.88	3050	300	0.69	4800	150
	P=8	1/32	0.80	1750	450	0.75	1950	375	0.69	2250	300	0.65	2800	225	0.63	4100	150	0.49	6400	75
65	Ø2"	1/8	2.02	1300	1800	1.88	1450	1500	1.76	1700	1200	1.63	2100	900	1.58	3050	600	1.25	4800	300
	ACME	1/16	1.07	1300	900	0.99	1450	750	0.93	1700	600	0.90	2200	450	0.83	3050	300	0.65	4800	150
	P=8	1/32	0.76	1750	450	0.71	1950	375	0.65	2250	300	0.61	2800	225	0.59	4100	150	0.46	6400	75
70	Ø2 1/2"	1/10	2.68	1400	1800	2.43	1850	1500	2.26	1950	1200	2.13	2450	900	1.94	3350	600	1.42	4900	300
	ACME	1/20	1.43	1600	900	1.48	1850	750	1.38	2250	600	1.29	2800	450	1.19	3850	300	0.86	5600	150
	P=10	1/40	1.15	2400	450	1.18	2800	375	1.10	3350	300	1.08	4400	225	0.94	5750	150	0.69	8400	75
100	Ø75m/m	1/12	3.65	1850	1800	3.53	2150	1500	3.41	2600	1200	3.20	3250	900	2.96	4500	600	2.10	6400	300
	ACME	1/18	2.67	1900	900	2.69	2300	750	2.58	2750	800	2.46	3500	600	2.21	4700	400	1.57	6700	200
	P=12	1/36	1.67	2200	450	1.64	2600	375	1.61	3200	400	1.48	3900	300	1.37	5400	200	1.21	9600	100

螺旋升降機零配件

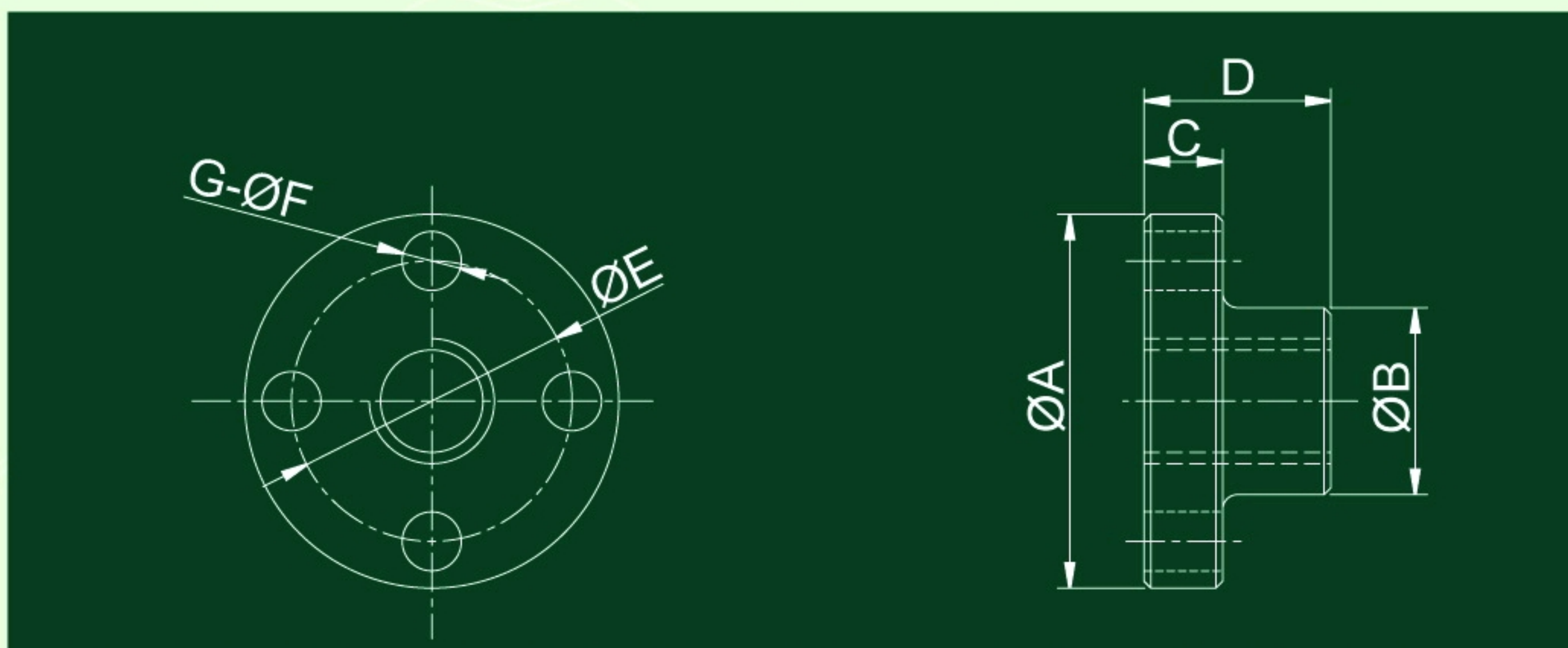
Parts of Screw Jack Reducer



銅螺母尺寸表

Size of the Nut

型號 Model	35	40	50	60	65	70	100
方螺紋 Lifting Screw 直徑 Diameter 螺距 Pitch	1" ACME P=5	1-1/4" ACME P=6	1-1/2" ACME P=6	1-3/4" ACME P=8	2" ACME P=8	2-1/2" ACME P=10	75m/m ACME P=5
蝸輪 減速比 Ratio	1/5 1/10 1/20	1/6 1/12 1/24	1/6 1/12 1/24	1/8 1/16 1/32	1/8 1/16 1/32	1/10 1/20 1/40	1/12 1/18 1/36



A	76	94	114	134	160	190	220
B	38	48	58	68	78	95	114
C	16	18	20	32	35	38	45
D	38	44	50	75	80	100	140
E	57	72	86	100	120	140	160
F	12	14	14	18	18	24	27
G	4	4	4	4	4	4	6



螺旋升降機

使用說明書 | 感謝您選用本公司的產品。在使用之前，請詳細參閱以下說明，以確保正確使用。

一、安裝

1. 減速機入力軸直接與馬達聯結時，應採彈性聯軸器；出力軸直接與設備聯結時，宜採用齒輪聯軸器。
2. 減速機應安裝在穩固的基礎座，且須注意空氣流通及換油時，注油及洩油之方便性。
3. 減速機入力軸及馬達出力軸之中心線必須對準確，誤差不得大於所用聯軸器之允許值。
4. 減速機安裝後，用手轉動需靈活，不可有卡死現象。
5. 減速機安裝好，使用前應先進行空負荷運轉，確定機器各部分都無異狀後，方可正式使用，如有故障應先排除。

二、潤滑

1. 新減速機使用時，於運轉500小時後，需更換新油，其後每使用2500小時需換油；但在使用過程中仍應定期檢查油的質、量，若油有雜質、老化、變質情況，必須隨時更換。
2. 減速機應使用固定品牌、規格之齒輪油，不應將不同品牌，規格或不同類型的油相混合使用。
3. 在換油過程中，應先將減速機內部清除乾淨，再注入新油。
4. 在使用期間，當發現油溫過高（超過80°C以上）時，以及有不正常的噪音等現象，應立即停止使用、檢查原因，等排除故障或更換潤滑油後，才可繼續使用。
5. 推薦用油：中國石油HD-320之極壓機油，或中國石油#90多效齒輪油。

三、維護

1. 減速機應定期檢修，發現異狀或有顯著磨損，必須立即採取有效措施制止，備用零件之材質、精度亦須照標準製造。更新零件後，應先進行空負荷運轉，確定正常後再正式使用。
2. 使用單位應建立合理的維護制度，對減速機的使用狀況及檢修中發現的問題，做仔細紀錄。

Screw Jack Reducer

I. INSTALLATION

1. Input shaft connects to motor directly, a flexible coupling prefer to apply according; output shaft connects to machine, it is better to use a gear coupling.
2. Install on a stable foundation and good air ventilation and the convenience of oil filling / draining should be considered.
3. The input shaft of the reducer and the motor shaft should be in alignment and the tolerance should fit the allowance.
4. After installation, please check input shaft by hand first to check whether running smoothly of nut.
5. Before start-up, no-load running test should be proceeded and any abnormal status occurred should be corrected immediately.

II. LUBRICATION

1. A new reducer needs replace oil in the beginning of 500 hrs operation; and then, each 2,500 hrs change again. Moreover, a regular oil checking is required and change necessarily.
2. Please change by equivalent specification of oil and don't mix with other brand of specification of oil.
3. Before changing oil, the inside of reducer should be flushed and drain out, then fill in new oil.
4. During operation, if the heat is over 80°C or any abnormal noise occurred, please shut down the reducer for checking immediately and start running only after the cause is resolved.
5. Lubricant recommendation: MOBIL gear 632, SHELL omala 320 or MOBIL mobilube HD80W-90, SHELL spirax E.P. 90.