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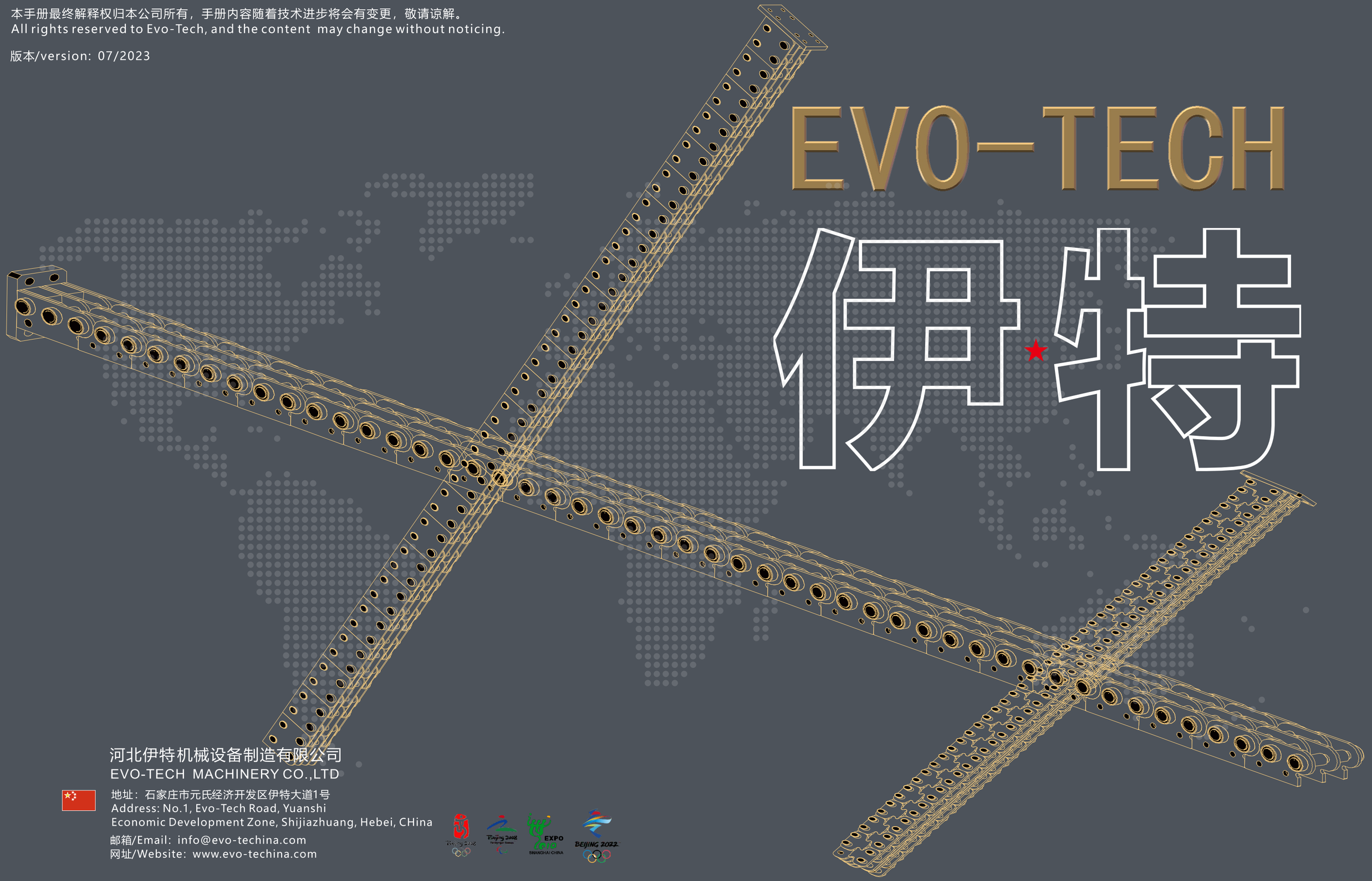
EVO-TECH

依特



河北伊特机械设备制造有限公司
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伊特
Evo-Tech

公司简介
Company Introduction

伊特创立于2002年。自成立以来，秉持“匠心、笃定、创造、超越”的企业文化及“创造一流企业，造就一流人才，产出优质产品”的企业愿景，打造了业内知名的“EVO-TECH”品牌。目前正在实施四大战略：标准化、自动化、智能化。

Evo-Tech was founded in 2002. Since its establishment, it has been adhering to the corporate culture of "ingenuity, determination, creation, and transcendence" and the corporate vision of "creating first-class enterprises, cultivating first-class talents, and producing high-quality products", and becomes a well-known brand in the industry. At present, four strategies are being implemented: standardization, automation and intelligence.

主要从事传动机械设备制造和智能控制系统研发及集成，以技术力量为企业发展主导思想，不断加强高端技术人才储备，加强研发及产品优化能力，使企业产品得到各领域的认可，包括工业自动化、新能源汽车换电站、军工、物流、文旅等领域。经快速、稳固发展，已成为集设计、制造、安装、调试、服务为一体的现代化高新技术企业。

Evo-Tech is mainly engaged in transmission machinery equipment manufacturing and intelligent control system research&development and integration, with technical strength as the leading idea of enterprise development. It continuously strengthens high-end technical talent reserves as well as research and development and product optimization capabilities, so that enterprise products are recognized by various fields, including industrial automation, new energy vehicle replacement stations, military industry, logistics, cultural tourism and other fields. After rapid and steady development, it has become a modern high-tech enterprise integrating design, manufacture, installation, commissioning and service.

公司位于中国河北省省会石家庄市，石家庄地处中国华北地区、河北省中南部、环渤海湾经济区，是国务院批准实行沿海开放政策和金融对外开放城市，全国性商贸会展中心城市之一 、中国国际数字经济博览会永久举办地、中国（河北）自由贸易试验区组成部分。

The company is located in Shijiazhuang City, the capital of Hebei Province, China. Shijiazhuang is located in North China, central and southern Hebei Province, and the Bohai Bay Economic Zone. It is a city approved by the State Council to implement the coastal opening policy and financial opening to the outside world. The permanent venue of the International Digital Economy Expo and an integral part of the China (Hebei) Pilot Free Trade Zone.

公司借助有利的地理位置和国家政府对国内民营企业的大力扶持，业务已发展到国内外。根据业务需求，成立了河北贝西进出口贸易有限公司。

With the favorable geographical location and the strong support of the national government for domestic private enterprises, the company has developed its business at home and abroad. According to business needs, Hebei Bessy Import and Export Trading Co., Ltd has been established.

随着中国工业步入4.0时代，在国家对民企科技力量不断增大的的良好环境下，公司成立了石家庄辰宙智能装备有限公司，召集各领域尖端人才，针对性研发和开拓智能物流设备领域。

As China's industry enters the 4.0 era, under the good environment of the country's increasing scientific and technological strength of private enterprises, Shijiazhuang Chenzhou Intelligent Equipment Co., Ltd has been established to convene cutting-edge talents in various fields to develop intelligent logistics equipment.

公司生产基地目前已扩建到17000平方米，高精密智能化生产装备齐全，不断吸纳高尖端人才，提高系统化管理效率，逐步完成转型升级，实现生产制造工业自动化及智能化。

The company's production base has been expanded to 17,000 square meters at present with complete high-precision intelligent production equipment. Evo-Tech constantly absorbs high-end talents, improves systematic management efficiency, gradually completes transformation and upgrading, and realize industrial automation and intelligence in manufacturing.

放眼未来、伊特以“打造世界一流专业设备制造企业”为企业长远发展目标。相信通过公司全员的不断努力和合作伙伴的支持，伊特一定会继续璀璨闪耀，弘扬民族工业，创立中国的名牌，为中国以及全球开创自主自强，与时俱进的局面，将以更加完美的形象进军国际舞台。

Looking to the future, Evo-Tech takes "building a world-class professional equipment manufacturing enterprise" as its long-term development goal. Through the continuous efforts of all employees of the company and the support of partners, Evo-Tech will continue to shine brightly by promoting the national industry and creating a famous brand in China. With the spirit of self-reliance, self-improvement, and advancing with the times, it will march to the international arena with a more perfect image.

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销齿举升链

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LINKCHAIN-ZIP Series

旋转式凸轮限位开关

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销齿链询价表

LINK CHAIN INQUIRY SHEETS

1 销齿举升链产品介绍/Link chain lifting introduction

特点：

销齿举升链的特点是销齿举升链的柔性转向换成了支撑链体的刚性推力举升。根据其特点也叫“刚性链”，整个举升装置仅需要举升高度的工作空间，无需其他过多的竖向处置和存储空间，避免了较深基坑设置所带来的一系列问题。

销齿举升链（XCL）分为以下类型：
1）标准举升链
2）自导向举升链

Features

Evo-Tech “Link Chain”s feature is that the flexible chain can be transformed to a rigid column that is capable of raising load, therefore it is also called "rigid chain". Link chain only needs the working space of the lifting height, without extra vertical space, avoiding a series of problems caused by deep foundation pits.

Link Chain lifting (XCL) can be divided into:
1)standard lifting chain
2)self-guide lifting chain

销齿举升链的性能优势/Link chain’s performance advantages

- **精度高**
  行程范围内任意停位
- **体积小**
  无配重，可实现浅基坑
- **寿命长**
  50万次行程内，仅需定期润滑
- **噪音低**
  链条运行噪音约50分贝
- **行程大**
  举升/推拉距离可达16米
- **载重大**
  标准型号静载约30吨+动载约20吨
- **同步好**
  支持多个链条高精度协同
- **速度快**
  最高可达到300毫米/秒

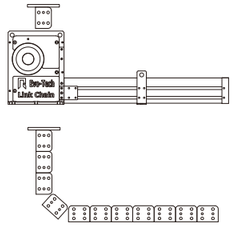
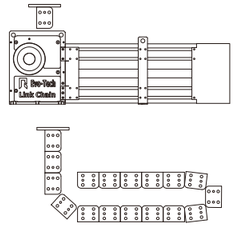
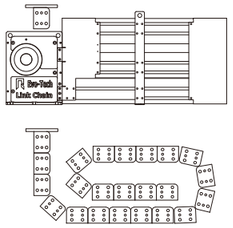
- **High precision**
  Stop within the travel range at will
- **Small size**
  Without counterweight, shallow pit
- **Long life**
  500,000 strokes, only need regular lubrication
- **Low noise**
  Chain running noise is about 50 decibels
- **Long stroke**
  16m maximum
- **Heavy loading**
  Max.static load 30 tons; max.dynamic load 20 tons
- **Synchronization**
  Support high-precision coordination of multiple chains
- **Fast speed**
  Maximum speed 300mm/s

2　型号描述/Model description

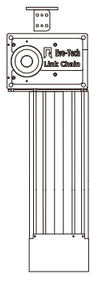
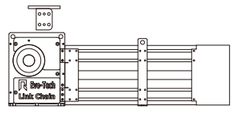
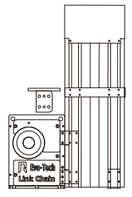
XCL [100R] [G] [FR15] / [R] [X] – [2000] / [S] – [M2]

- [M2] 储链箱方向：M1为0°；M2为90°（标准型号，书写可省略）；M3为180°
  Magazine direction: M1 for 0°; M2:90° (standard direction, can be omitted); M3 :180°
- [S] 箱体类型: S为单层箱体；D为双层箱体；T为三层箱体
  Magazine layers: S for single layer; D for double layers, T for triple layers
- [2000] 工作行程，单位：mm
  Work stroke, unit: mm
- [X] 附加设备：X：旋转式凸轮限位开关；T:编码器
  Optional: X: geared cam limit switch; T: encoder
- [R] L：左出轴；R:右出轴；L+R：双出轴
  L:left shaft; R: right shaft; L+R: dual shaft
- [FR15] 行星减速机品牌及规格
  Planetary gearboxes brand and size
- [G] （无）：标准类型; G:自导向；
  (void): standard type; G: self-guide;
- [100R] 规格/Model size：30S/30D/35E/35R/40S/40R/60R /80R/100A /100R/125R/150R
- XCL 产品类型/Product code

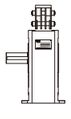
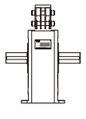
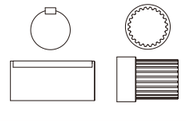
储链箱层数及链条走向/Magazine layer type & chain winding

单层箱体（S） Single-layer magazine	双层箱体 (D) Double-layer magazine	三层箱体 (T) Triple-layer magazine	多层箱体 (M) Multiple-layer magazine
			三层以上的箱体需非标定制。 备注： 1. 增加箱体层数，可缩短设备长度，但增加设备高度。 2. 随着箱体层数增加，链条在储链箱内的转弯次数也会增加，链条的额定速度及噪音也会受到影响。 Magazines with more than 3 layers need to be customized. Note: 1. Increasing the magazine layers can shorten the length of the equipment, but increase the height. 2. As magazine layers increases, the number of turns of the chain in the magazine will also increase, and the rated speed and noise of the chain will also be affected.

储链箱方向/Magazine direction

箱体方向0°为M1 Magazine direction 0° as M1	箱体方向90°为M2 Magazine direction 90° as M2	箱体方向180°为M3 Magazine direction 180° as M3	
			备注： 1. 箱体方向是根据链条从储链箱进入传动箱的转弯方向命名。 Note: 1. The magazine direction is named after the direction the chain turns from the chain magazine into the drive house.

输入轴方向及种类/Input shaft direction & shaft type

左出轴（L） Left shaft	右出轴（R） Right shaft	双出轴（L+R） Dual shaft	平键（F）与花键（S） Flat key and spline
			

标准输入轴径及非标输入轴径尺寸定制范围
Standard input shaft diameter & customized shaft diameter range

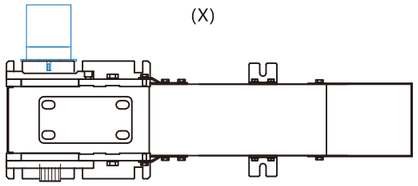
销齿链型号 Link chain model	标准轴径 Standard shaft diamter	非标轴径（D）定制范围 shaft customized diameter range
30S	28	28<D≤30
30D	35	35<D≤40
35E	38	38<D≤40
35R	38	38<D≤40
40S	42	42<D≤45
40R	45	45<D≤50

销齿链型号 Link chain model	标准轴径 Standard shaft diamter	非标轴径（D）定制范围 shaft customized diameter range
60R	65	65<D≤70
80R	80	80<D≤85
100A	90	90<D≤100
100R	115	115<D≤120
125R	125	125<D≤130
150R	155	155<D≤160

销齿链附加设备/Optional extra devices

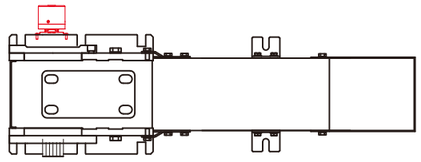
1）销齿链输出轴上可装旋转式凸轮限位开关；
Rotary geared cam limit switch can be mounted on the output shaft

(X)



2）销齿链输出轴上可装编码器；
Encoder can be mounted on the output shaft

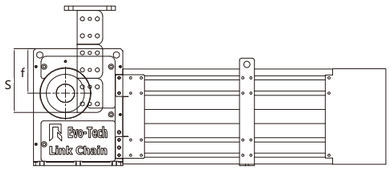
(T)



行程设定指南/Stroke setting guide

型号描述中的不体现安全链节的长度（s），安全链节由本公司考虑，其长度大于传动箱顶部到链轮轴中心的间距(f)。

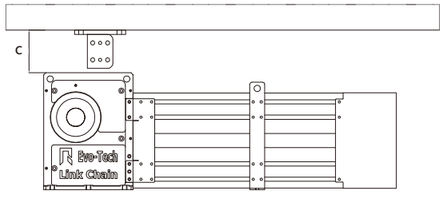
The length (s) of the safety chain link is not reflected in the model description. The safety chain link is considered by the company, and its length is greater than the distance (f) from the top of the transmission box to the center of the sprocket shaft.



行程=有效行程（a）+行程余量（b）+初始高度（c）
total stroke = effective stroke (a) + stroke margin (b) + initial height (c)

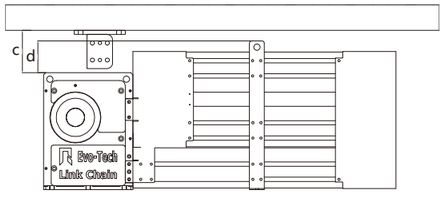
初始高度（c）的设定，有以下三种情况。
Initial height （c）has three situations:

1 单层或双层储链箱时
single or double layer chain magazine



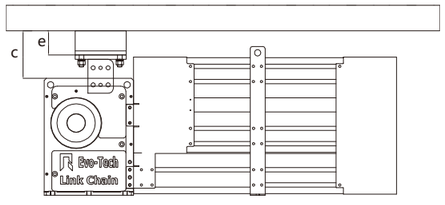
链条初始高度（c）应＞0mm,建议至少50mm，若过小不宜设定机械限位。
Initial height (c) should be > 0mm and at least 50mm, otherwise it would be not suitable for mechanical limits.

2 三层储链箱，台体与刚性之间没有过渡结构件时:
three-layer magazine +no structural connection between platform and chain top.



链条初始高度(c) 应大于储链箱和传动箱高度差（d）
initial height (c) should be greater than the height difference between chain magazine and drive house (d)

3 三层储链箱，台体与刚性之间有过渡结构件时
three-layer magazine +structural connection between platform and chain top.



链条初始高度（c）+过渡结构件高度(e),应大于储链箱和传动箱高度差（d）。
initial height (c)+structural connection (e) should be greater than the height difference between chain magazine and drive house (d)

3 销齿举升链标准型号基本参数
Link chain standard model baisc parameter

30S/30D/35E/35R/40S/40R 型号基本参数

技术参数	Technical parameters	产品型号/Link Chain Models					
		30S	30D	35E	35R	40S	40R
静载荷参数/Static Loading Capacity (SLC)							
最大静载荷 KN/允许行程 M	max.SLC KN/stroke range M	10/0.6	12/0.66	15/1.75	25/1.05	40/1.2	40/2
允许静载荷 KN/最大行程 M	min.SLC KN/full stroke M	7.1/1.02	9/1.2	8/2.24	8/2.24	25/3.6	25/4
动载荷参数/Dynamic Loading Capacity (DLC)							
最大动载荷 KN/允许行程 M	max.DLC KN/stroke range M	10/0.6	10/0.54	12/1.75	20/1.05	30/1.2	30/2
允许动载荷 KN/最大行程 M	min.DLC KN/full stroke M	7.1/1.02	6.5/1.2	7/2.24	7/2.24	20/3.6	20/4
其他参数/Other parameters							
额定速度（mm/s）	rated speed（mm/s）	300	300	300	300	300	300
传动效率（%）	transmission efficiency（%）	90	90	90	90	90	90
链条节距（mm）	chain pitch（mm）	30	30	35	35	40	40
节圆半径（mm）	pitch radius（mm）	30	44	35	35	40	40
每转上升高度（mm）	travel per revolution(mm)	180	270	210	210	240	240
最低高度（mm）	basic height（mm）	165	195	235	235	280	370

60R/80R/100A/100R/125R/150R 型号基本参数

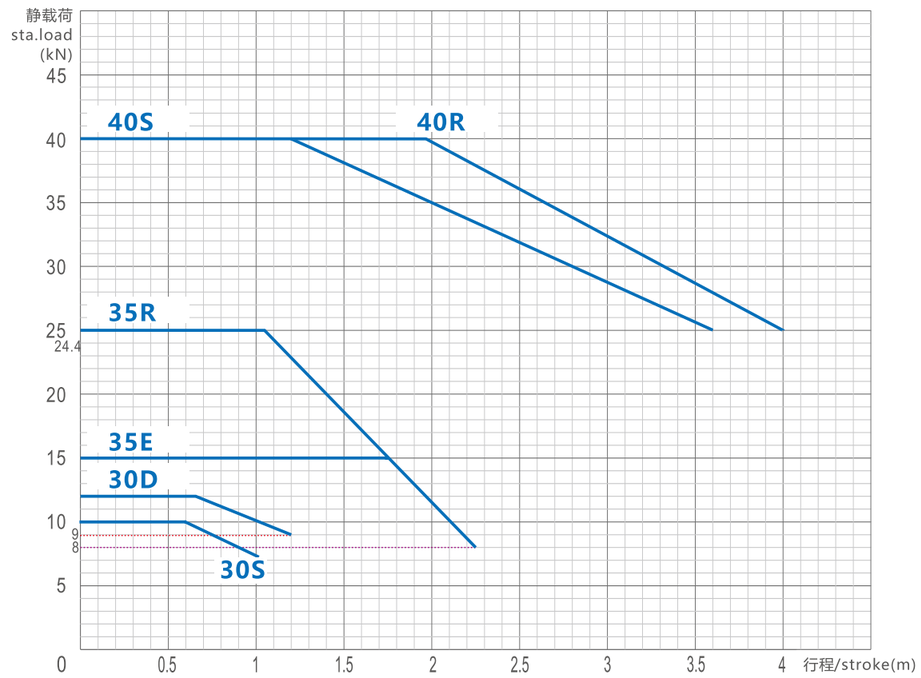
技术参数	Technical parameters	产品型号/Link Chain Models					
		60R	80R	100A	100R	125R	150R
静载荷参数/Static Loading Capacity (SLC)							
最大静载荷 KN/允许行程 M	max.SLC KN/stroke range M	90/2	130/3.04	140/6	200/4.4	250/6	300/7.5
允许静载荷 KN/最大行程 M	min.SLC KN/full stroke M	35/6	35.8/8	25/10	40/10	40/13	60/16.2
动载荷参数/Dynamic Loading Capacity (DLC)							
最大动载荷 KN/允许行程 M	max.DLC KN/stroke range M	60/2	95/3.04	100/6	150/4.4	200/6	250/7.5
允许动载荷 KN/最大行程 M	min.DLC KN/full stroke M	25/6	35.5/8	20/10	40/10	30/13	45/16.2
其他参数/Other parameters							
额定速度（mm/s）	rated speed（mm/s）	300	300	300	300	300	300
传动效率（%）	transmission efficiency（%）	90	90	90	90	90	90
链条节距（mm）	chain pitch（mm）	60	80	100	100	125	150
节圆半径（mm）	pitch radius（mm）	60	80	100	100	125	150
每转上升高度（mm）	travel per revolution(mm)	360	480	600	600	750	900
最低高度（mm）	basic height（mm）	450	550	650	650	750	870

自导向举升链技术参数描述/Self-guiding lifting chain’s technical parameter

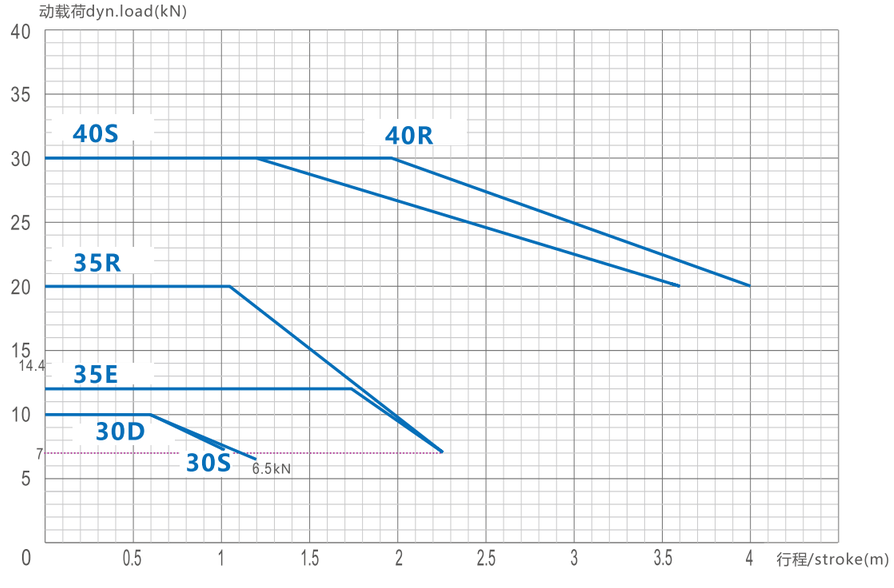
*自导向举升链以标准销齿链为基础，其特点是在行程范围内保持恒定载荷，行程范围是链条自重不超过动载的1/20。
*The self-guiding lifting chain is developed based on the standard link chain. Its characteristic is to keep the loading capacity constant within the stroke range. The stroke range is that the chain's own weight does not exceed 1/20 of its dynamic load.

4 销齿举升链各型号载荷分布图及外形尺寸
Link chain load operating ranges and dimensions

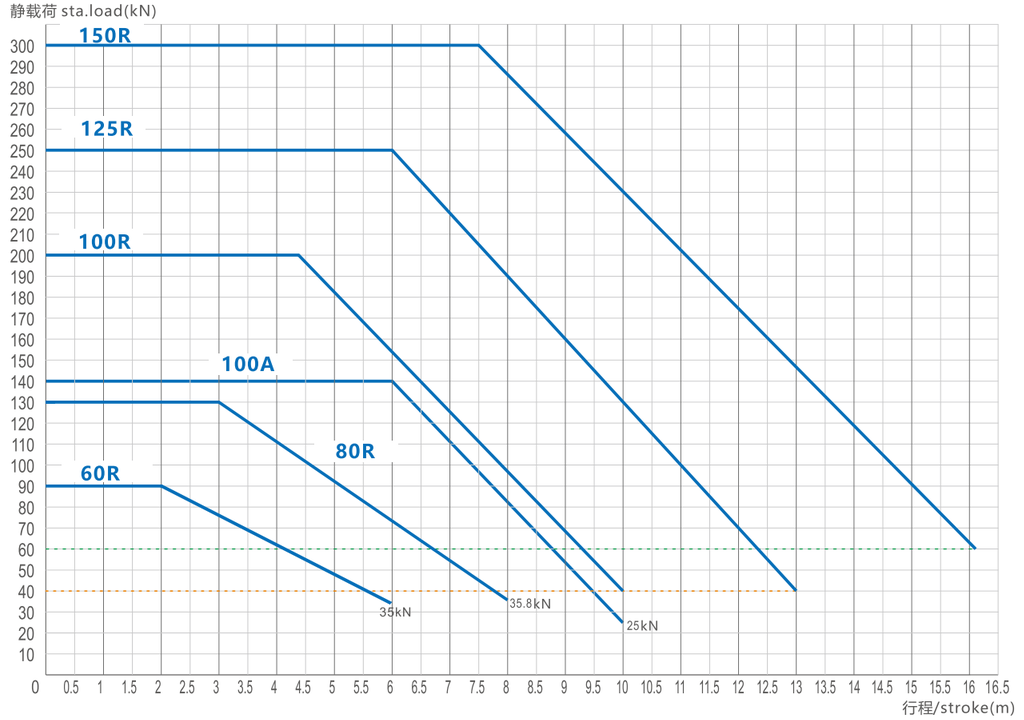
静载荷分布图（static load):30S/30D/35E/35R/40S/40R



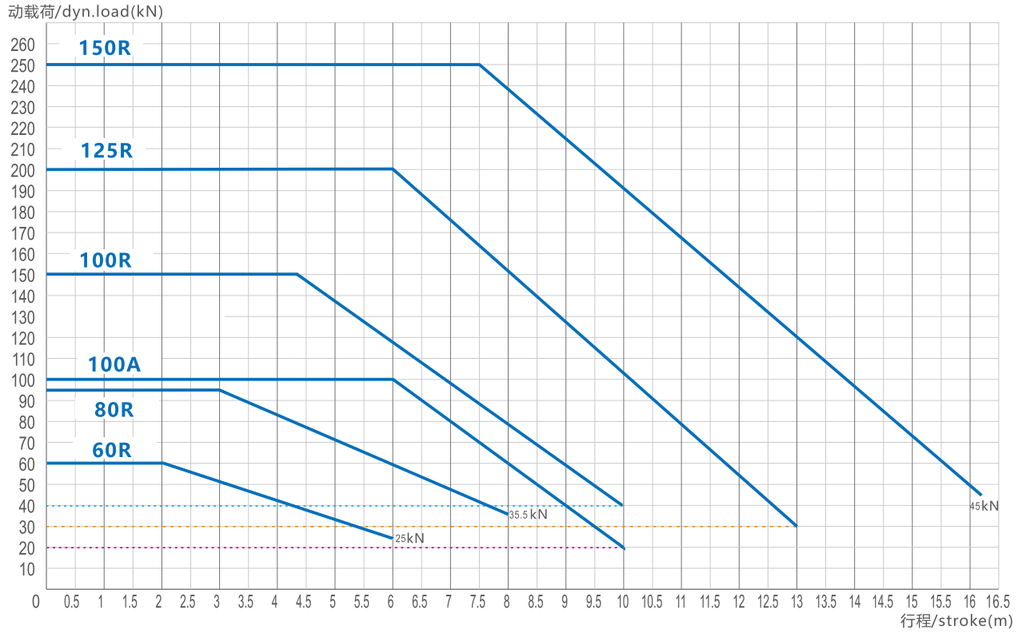
动载荷分布图（dynamic load):30S/30D/35E/35R/40S/40R

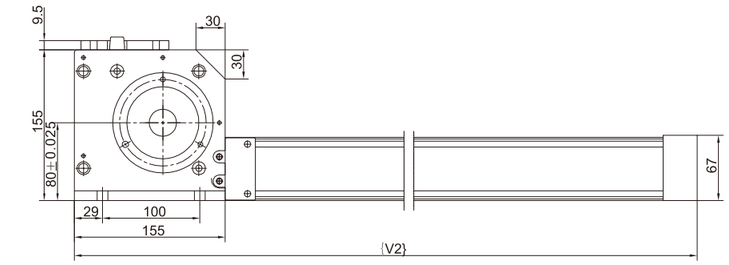


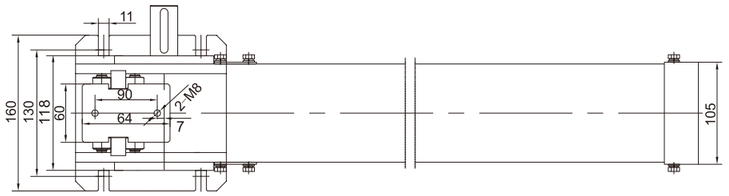
静载荷分布图(static load):60R/80R/100A/100R/125R/150R

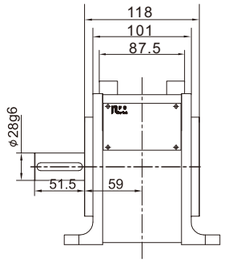


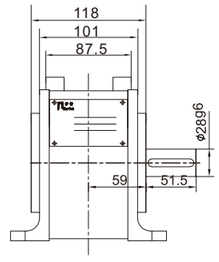
动载荷分布图(dynamic load):60R/80R/100A/100R/125R/150R

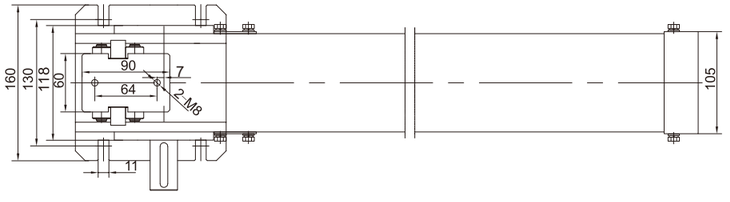




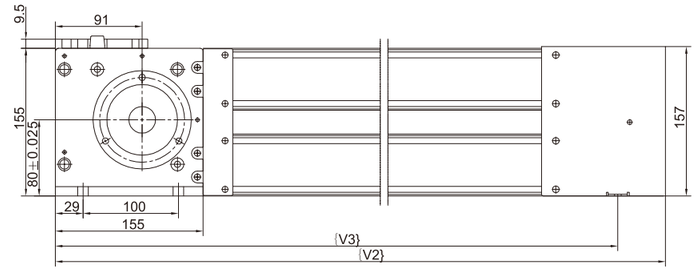


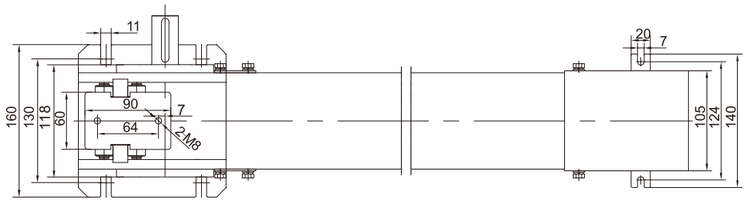


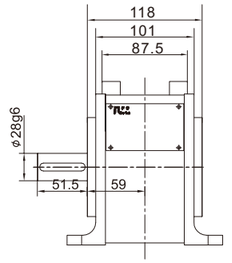


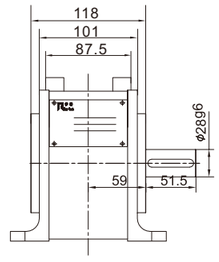


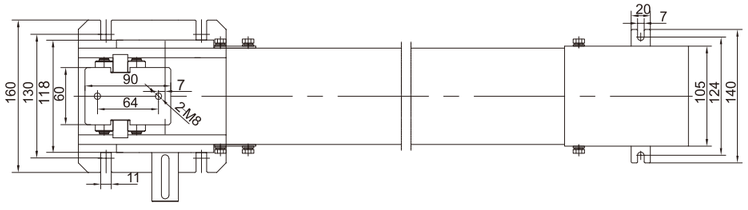
行程 Stroke V1(mm)	总长 Length V2(mm)	载荷 Load (KN)	链条自重 Chain weight (Kg)	设备自重 Total weight (Kg)
180	280	10	4. 8	13
240	340		5.6	14
300	400		6.4	15
360	460		7.2	16
420	520		8.0	17
480	580		8.8	18
540	640		9.6	19
600	700		10.4	20
660	760	9.7	11.2	21
720	820	9.3	12.0	22
780	880	8.6	12. 8	23
840	940	8.2	13. 6	24
900	1000	7.9	14. 4	25
960	1060	7.6	15. 2	26
1020	1120	7.1	16. 0	27





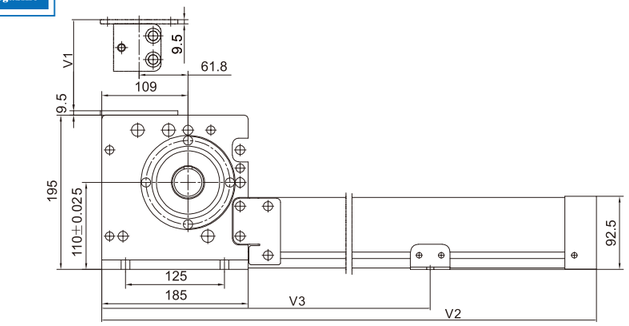


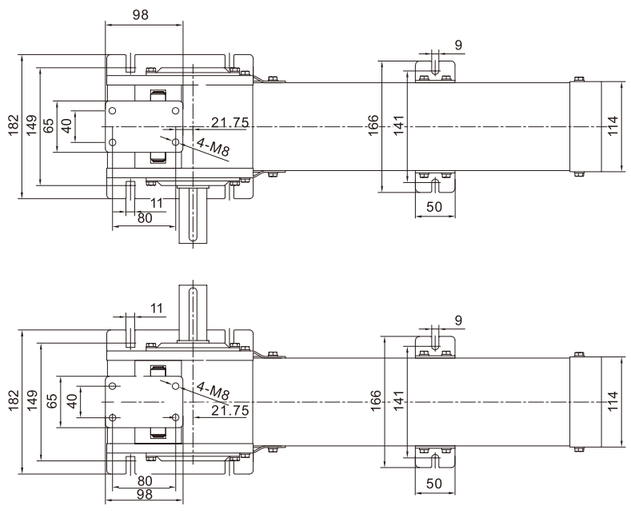


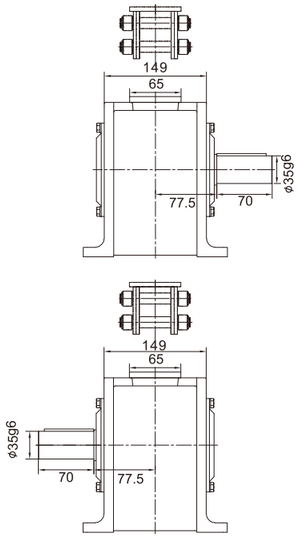


行程 Stroke V1(mm)	总长 Length V2(mm)	地脚 Anchor V3(mm)	载荷 Load (KN)	链条自重 Chain weight (Kg)	设备自重 Total weight (Kg)
420	375	325	10	8.0	18
480	405	355		8.8	19
540	435	385		9.6	20
600	465	415		10.4	21
660	495	445	9.7	11.2	22
720	525	475	9.3	12.0	23
780	555	505	8.6	12. 8	24
840	585	535	8.2	13. 6	25
900	615	565	7.9	14. 4	26
960	645	595	7.6	15. 2	27
1020	675	625	7.1	16. 0	28

30D
单层箱体
Single magazine

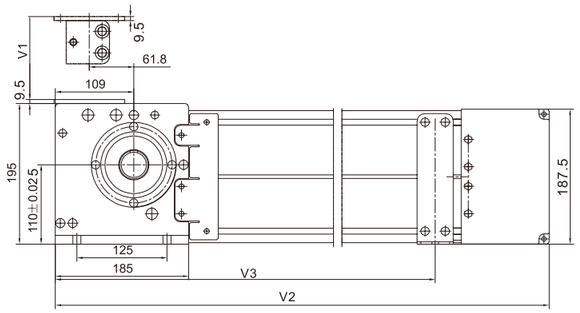


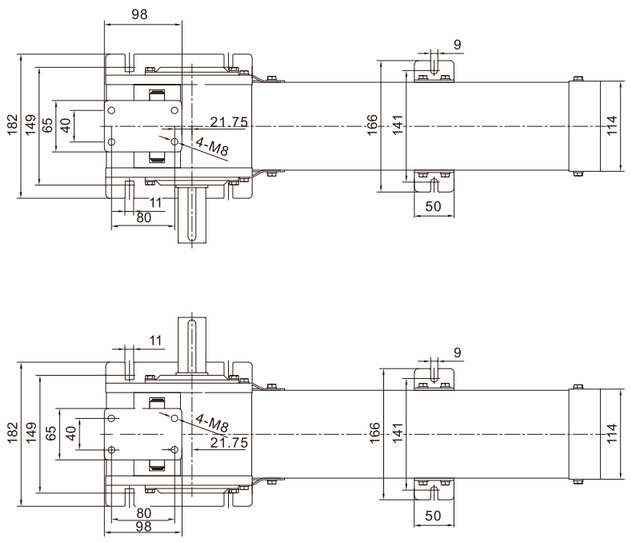


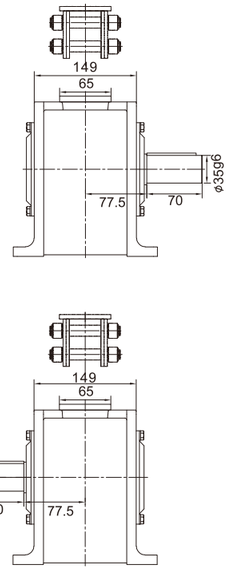


行程 Stroke V1(mm)	总长 Length V2(mm)	地脚 Anchor V3(mm)	静载荷 Sta.load (KN)	动载荷 Dyn.load (KN)	链条自重 Chain weight (Kg)	设备自重 Total weight (Kg)
240	385	255	12.0	10.0	4.1	20.8
300	445	295			5.2	22.1
360	505	335			6.3	23.4
420	565	375			7.4	24.7
480	625	415			8.5	26.0
540	685	455			9.6	27.3
600	745	495			10.7	28.6
660	805	535		9.7	11.8	29.9
720	865	575	11.7	9.3	12.9	31.2
780	925	615	11.4	9.0	14.0	32.5
840	985	655	11.0	8.6	15.1	33.8
900	1045	695	10.7	8.2	16.2	35.1
960	1105	735	10.4	7.9	17.3	36.4
1020	1165	775	10.0	7.6	18.4	37.7
1080	1225	815	9.7	7.1	19.5	39.0
1140	1285	855	9.4	6.8	20.6	40.3
1200	1345	895	9.0	6.5	21.7	41.6

30D
双层箱体
Double magazine

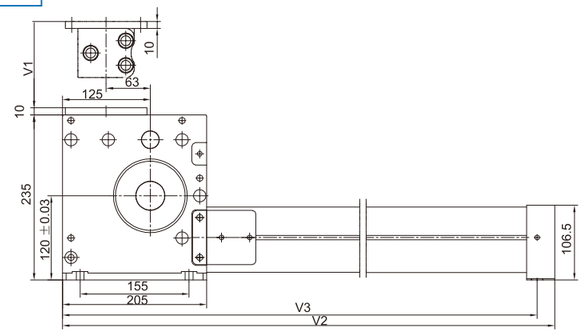


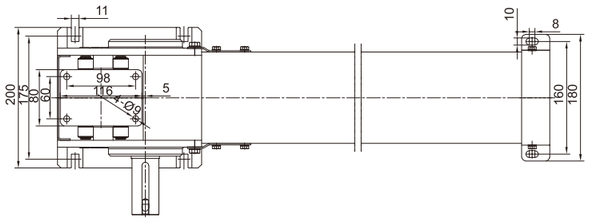


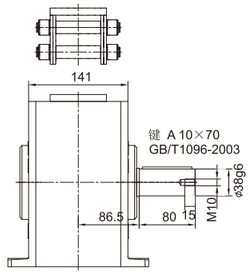


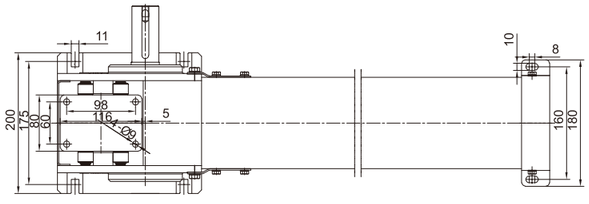
行程 Stroke V1(mm)	总长 Length V2(mm)	地脚 Anchor V3(mm)	静载荷 Sta.load (KN)	动载荷 Dyn.load (KN)	链条自重 Chain weight (Kg)	设备自重 Total weight (Kg)
360	402	252	12.0	10.0	6.3	23.4
420	432	272			7.4	24.7
480	462	292			8.5	26.0
540	492	312			9.6	27.3
600	522	332			10.7	28.6
660	552	352		9.7	11.8	29.9
720	582	372	11.7	9.3	12.9	31.2
780	612	392	11.4	9.0	14.0	32.5
840	642	412	11.0	8.6	15.1	33.8
900	672	432	10.7	8.2	16.2	35.1
960	702	452	10.4	7.9	17.3	36.4
1020	732	472	10.0	7.6	18.4	37.7
1080	762	492	9.7	7.1	19.5	39.0
1140	792	512	9.4	6.8	20.6	40.3
1200	822	532	9.0	6.5	21.7	41.6

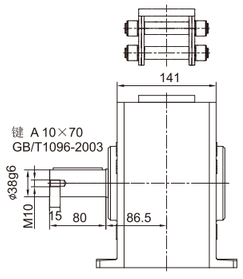
35E
单层箱体
Single magazine





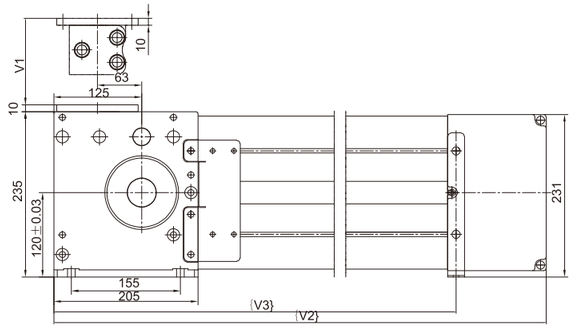


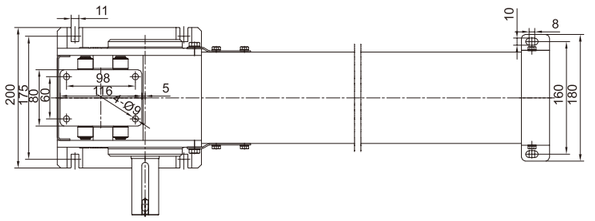


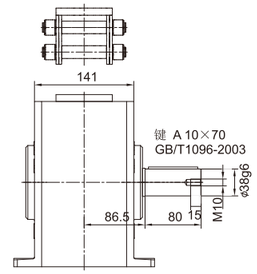


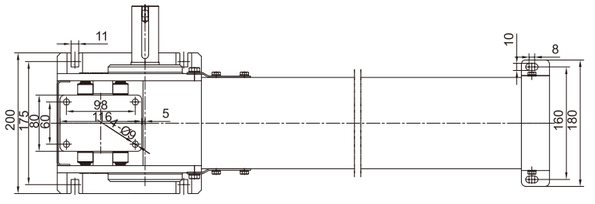
行程 Stroke V1(mm)	总长 Length V2(mm)	地脚 Anchor V3(mm)	静载荷 Sta.load (KN)	动载荷 Dyn.load (KN)	链条自重 Chain weight (Kg)	设备自重 Total weight (Kg)	行程 Stroke V1(mm)	总长 Length V2(mm)	地脚 Anchor V3(mm)	静载荷 Sta.load (KN)	动载荷 Dyn.load (KN)	链条自重 Chain weight (Kg)	设备自重 Total weight (Kg)
210	395	370	15.0	12.0	11	29	1260	1445	1420	15.0	12.0	35	59
280	465	440			12.6	31	1330	1515	1490			36.6	61
350	535	510			14.2	33	1400	1585	1560			38.2	63
420	605	580			15.8	35	1470	1655	1630			39.8	65
490	675	650			17.4	37	1540	1725	1700			41.4	67
560	745	720			19	39	1610	1795	1770			43	69
630	815	790			20.6	41	1680	1865	1840			44.6	71
700	885	860			22.2	43	1750	1935	1910			46.2	73
770	955	930			23.8	45	1820	2005	1980	14.0	11.5	47.8	75
840	1025	1000			25.4	47	1890	2075	2050	13.0	10.8	49.4	77
910	1095	1070			27	49	1960	2145	2120	12.0	10.0	51	79
980	1165	1140			28.6	51	2030	2215	2190	11.0	9.3	52.6	81
1050	1235	1210			30.2	53	2100	2285	2260	10.0	8.5	54.2	83
1120	1305	1280			31.8	55	2170	2355	2330	9.0	7.8	55.8	85
1190	1375	1350			33.4	57	2240	2425	2400	8.0	7.0	57.4	87

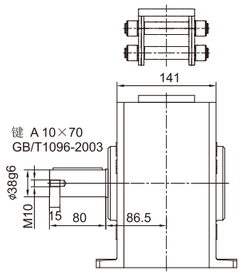
35E
双层箱体
Double magazine





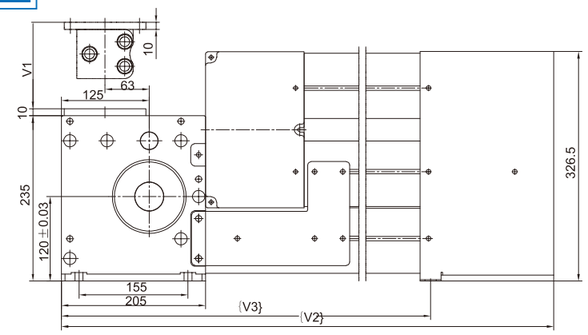


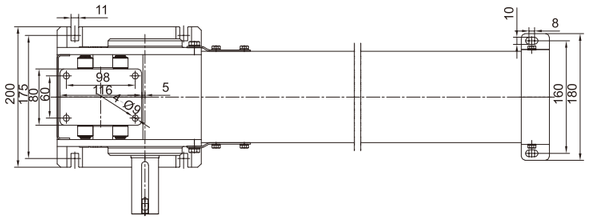


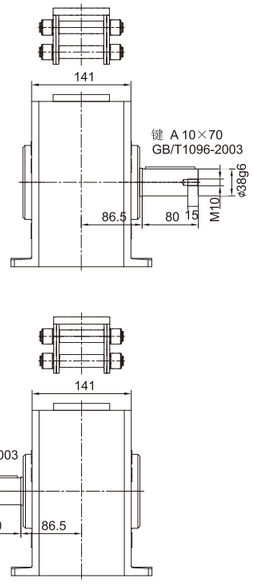


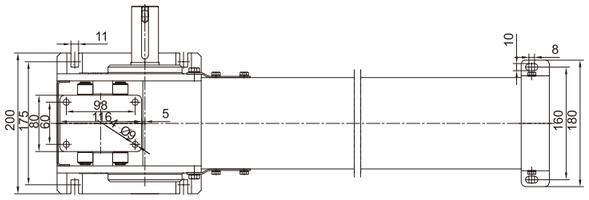
行程 Stroke V1(mm)	总长 Length V2(mm)	地脚 Anchor V3(mm)	静载荷 Sta.load (KN)	动载荷 Dyn.load (KN)	链条自重 Chain weight (Kg)	设备自重 Total weight (Kg)	行程 Stroke V1(mm)	总长 Length V2(mm)	地脚 Anchor V3(mm)	静载荷 Sta.load (KN)	动载荷 Dyn.load (KN)	链条自重 Chain weight (Kg)	设备自重 Total weight (Kg)
350	436	308	15.0	12.0	14.2	33	1330	940	812	15.0	12.0	36.6	61
420	472	344			15.8	35	1400	976	848			38.2	63
490	508	380			17.4	37	1470	1012	884			39.8	65
560	544	416			19.0	39	1540	1048	920			41.4	67
630	580	452			20.6	41	1610	1084	956			43.0	69
700	616	488			22.2	43	1680	1120	992			44.6	71
770	652	524			23.8	45	1750	1156	1028			46.2	73
840	688	560			25.4	47	1820	1192	1064	14.0	11.5	47.8	75
910	724	596			27.0	49	1890	1228	1100	13.0	10.8	49.4	77
980	760	632			28.6	51	1960	1264	1136	12.0	10.0	51.0	79
1050	796	668			30.2	53	2030	1300	1172	11.0	9.3	52.6	81
1120	832	704			31.8	55	2100	1336	1208	10.0	8.5	54.2	83
1190	868	740			33.4	57	2170	1372	1244	9.0	7.8	55.8	85
1260	904	776			35.0	59	2240	1408	1280	8.0	7.0	57.4	87

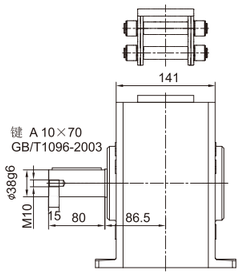
35E
三层箱体
Triple magazine





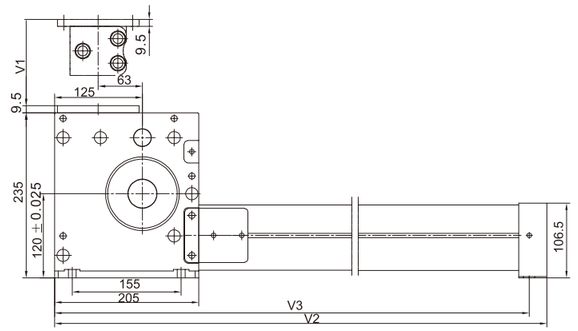


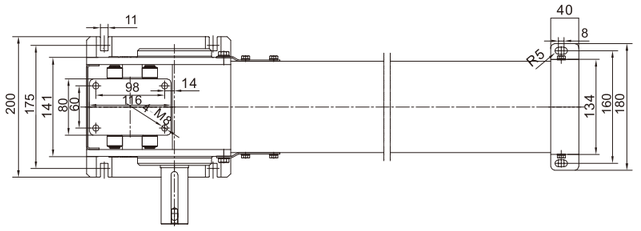


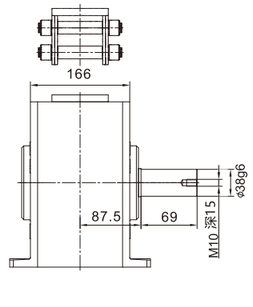


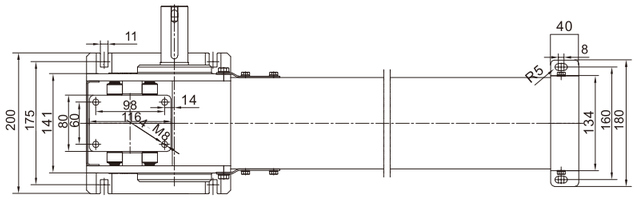
行程 Stroke V1(mm)	总长 Length V2(mm)	地脚 Anchor V3(mm)	静载荷 Sta.load (KN)	动载荷 Dyn.load (KN)	链条自重 Chain weight (Kg)	设备自重 Total weight (Kg)	行程 Stroke V1(mm)	总长 Length V2(mm)	地脚 Anchor V3(mm)	静载荷 Sta.load (KN)	动载荷 Dyn.load (KN)	链条自重 Chain weight (Kg)	设备自重 Total weight (Kg)
700	590	415	15.0	12.0	22.2	43	1540	878	703	15.0	12.0	41.4	67
770	614	439			23.8	45	1610	902	727			43	69
840	638	463			25.4	47	1680	926	751			44.6	71
910	662	487			27	49	1750	950	775			46.2	73
980	686	511			28.6	51	1820	974	799	14.0	11.5	47.8	75
1050	710	535			30.2	53	1890	998	823	13.0	10.8	49.4	77
1120	734	559			31.8	55	1960	1022	847	12.0	10.0	51	79
1190	758	583			33.4	57	2030	1046	871	11.0	9.3	52.6	81
1260	782	607			35	59	2100	1070	895	10.0	8.5	54.2	83
1330	806	631			36.6	61	2170	1094	919	9.0	7.8	55.8	85
1400	830	655			38.2	63	2240	1118	943	8.0	7.0	57.4	87
1470	854	679			39.8	65							

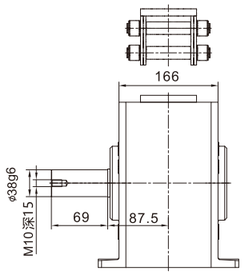
35R
单层箱体
Single magazine





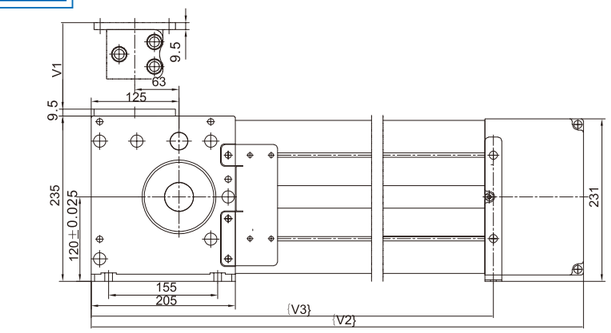


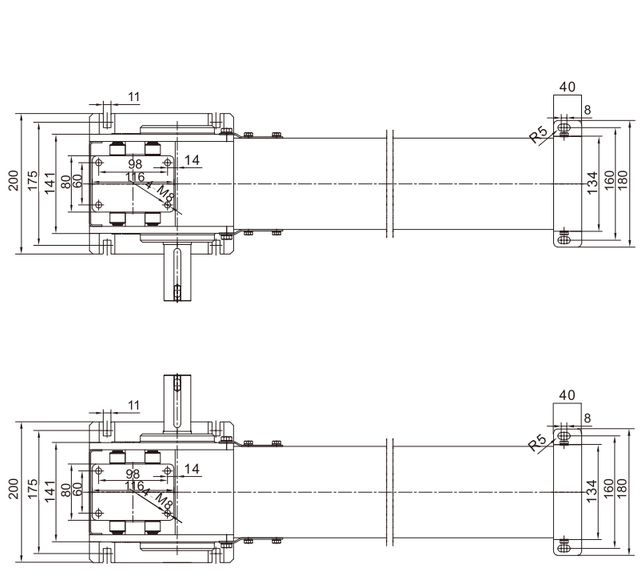


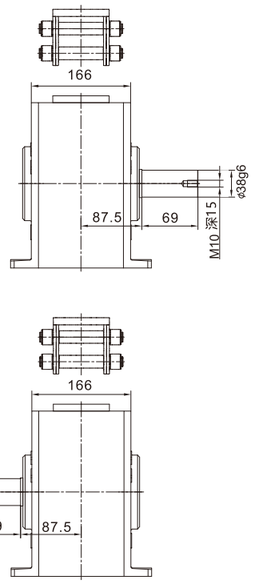


行程 Stroke V1(mm)	总长 Length V2(mm)	地脚 Anchor V3(mm)	静载荷 Sta.load (KN)	动载荷 Dyn.load (KN)	链条自重 Chain weight (Kg)	设备自重 Total weight (Kg)	行程 Stroke V1(mm)	总长 Length V2(mm)	地脚 Anchor V3(mm)	静载荷 Sta.load (KN)	动载荷 Dyn.load (KN)	链条自重 Chain weight (Kg)	设备自重 Total weight (Kg)
210	395	370	25.0	20.0	16	35.0	1260	1445	1420	22.0	17.7	46	72.5
280	465	440			18	37.5	1330	1515	1490	21.0	16.9	48	75.0
350	535	510			20	40.0	1400	1585	1560	20.0	16.2	50	77.5
420	605	580			22	42.5	1470	1655	1630	19.0	15.4	52	80.0
490	675	650			24	45.0	1540	1725	1700	18.0	14.6	54	82.5
560	745	720			26	47.5	1610	1795	1770	17.0	13.9	56	85.0
630	815	790			28	50.0	1680	1865	1840	16.0	13.1	58	87.5
700	885	860			30	52.5	1750	1935	1910	15.0	12.4	60	90.0
770	955	930			32	55.0	1820	2005	1980	14.0	11.6	62	92.5
840	1025	1000			34	57.5	1890	2075	2050	13.0	10.8	64	95.0
910	1095	1070			36	60.0	1960	2145	2120	12.0	10.1	66	97.5
980	1165	1140			38	62.5	2030	2215	2190	11.0	9.3	68	100.0
1050	1235	1210			40	65.0	2100	2285	2260	10.0	8.5	70	102.5
1120	1305	1280	24.0	19.2	42	67.5	2170	2355	2330	9.0	7.8	72	105.0
1190	1375	1350	23.0	18.5	44	70.0	2240	2425	2400	8.0	7.0	74	107.5

35R
双层箱体
Double magazine

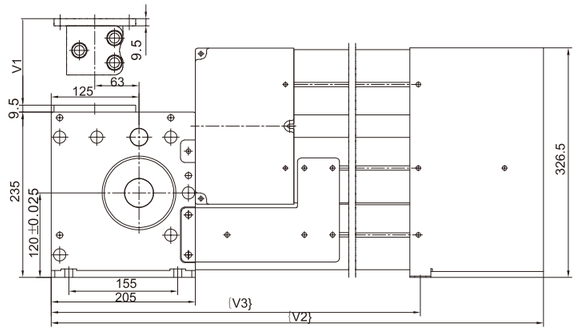


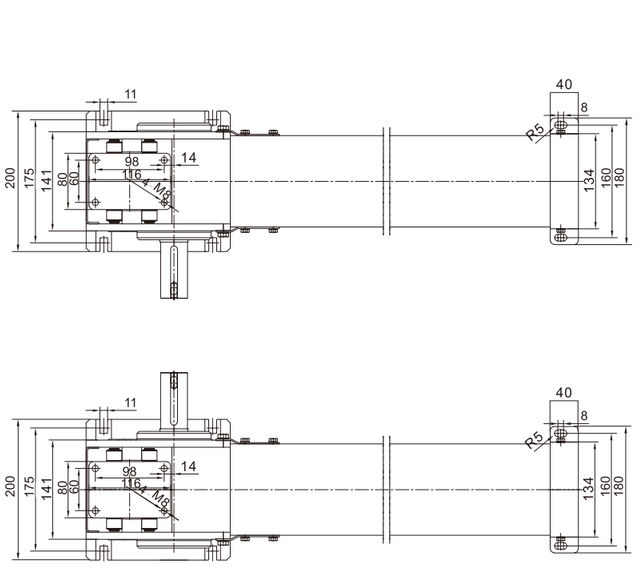


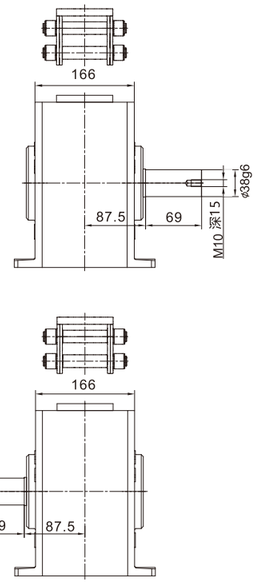


行程 Stroke V1(mm)	总长 Length V2(mm)	地脚 Anchor V3(mm)	静载荷 Sta.load (KN)	动载荷 Dyn.load (KN)	链条自重 Chain weight (Kg)	设备自重 Total weight (Kg)
350	436	308	25.0	20.0	20.0	42.5
420	472	344			22.0	45
490	508	380			24.0	47.5
560	544	416			26.0	50
630	580	452			28.0	52.5
700	616	488			30.0	55
770	652	524			32.0	57.5
840	688	560			34.0	60
910	724	596			36.0	62.5
980	760	632			38.0	65
1050	796	668			40.0	67.5
1120	832	704	24.0	19.2	42.0	70
1190	868	740	23.0	18.5	44.0	72.5
1260	904	776	22.0	17.7	46.0	75
1330	940	812	21.0	16.9	48.0	77.5
1400	976	848	20.0	16.2	50.0	80
1470	1012	884	19.0	15.4	52.0	82.5
1540	1048	920	18.0	14.6	54.0	85
1610	1084	956	17.0	13.9	56.0	87.5
1680	1120	992	16.0	13.1	58.0	90
1750	1156	1028	15.0	12.4	60.0	92.5
1820	1192	1064	14.0	11.6	62.0	95
1890	1228	1100	13.0	10.8	64.0	97.5
1960	1264	1136	12.0	10.1	66.0	100
2030	1300	1172	11.0	9.3	68.0	102.5
2100	1336	1208	10.0	8.5	70.0	105
2170	1372	1244	9.0	7.8	72.0	107.5
2240	1408	1280	8.0	7.0	74.0	110

35R
三层箱体
Triple magazine

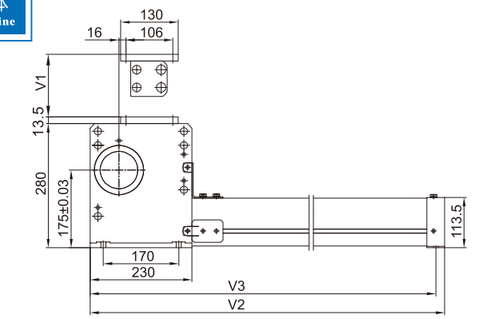


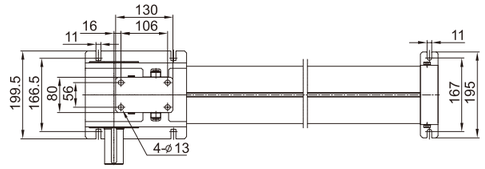


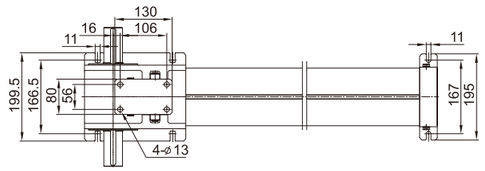


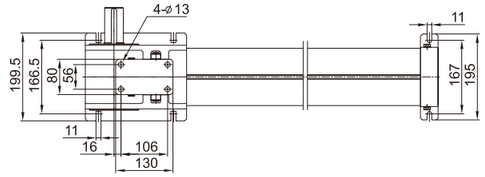
行程 Stroke V1(mm)	总长 Length V2(mm)	地脚 Anchor V3(mm)	静载荷 Sta.load (KN)	动载荷 Dyn.load (KN)	链条自重 Chain weight (Kg)	设备自重 Total weight (Kg)
700	590	415	25.0	20.0	30.0	55
770	614	439			32.0	57.5
840	638	463			34.0	60
910	662	487			36.0	62.5
980	686	511			38.0	65
1050	710	535			40.0	67.5
1120	734	559	24.0	19.2	42.0	70
1190	758	583	23.0	18.5	44.0	72.5
1260	782	607	22.0	17.7	46.0	75
1330	806	631	21.0	16.9	48.0	77.5
1400	830	655	20.0	16.2	50.0	80
1470	854	679	19.0	15.4	52.0	82.5
1540	878	703	18.0	14.6	54.0	85
1610	902	727	17.0	13.9	56.0	87.5
1680	926	751	16.0	13.1	58.0	90
1750	950	775	15.0	12.4	60.0	92.5
1820	974	799	14.0	11.6	62.0	95
1890	998	823	13.0	10.8	64.0	97.5
1960	1022	847	12.0	10.1	66.0	100
2030	1046	871	11.0	9.3	68.0	102.5
2100	1070	895	10.0	8.5	70.0	105
2170	1094	919	9.0	7.8	72.0	107.5
2240	1118	943	8.0	7.0	74.0	110

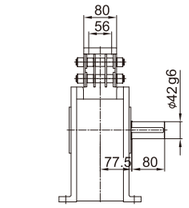
40S
单层箱体
Single magazine

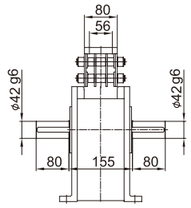


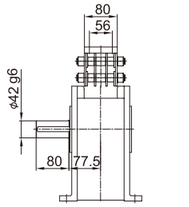






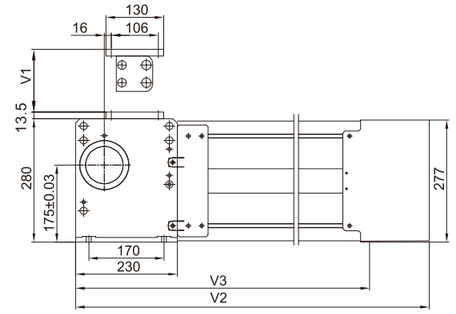


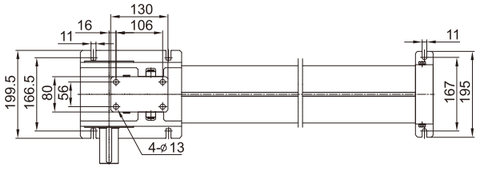


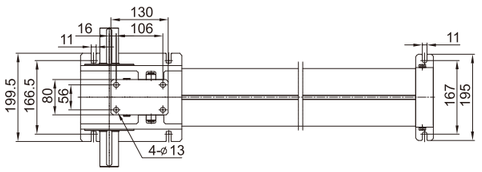


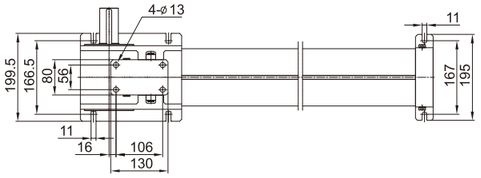
行程 Stroke V1(mm)	总长 Length V2(mm)	地脚 Anchor V3(mm)	静载荷 Sta.load (KN)	动载荷 Dyn.load (KN)	链条自重 Chain weight (Kg)	设备自重 Total weight (Kg)	行程 Stroke V1(mm)	总长 Length V2(mm)	地脚 Anchor V3(mm)	静载荷 Sta.load (KN)	动载荷 Dyn.load (KN)	链条自重 Chain weight (Kg)	设备自重 Total weight (Kg)
80	310	290			8	37	1920	2150	2130	35.5	27.0	54	106
160	390	370			10	40	2000	2230	2210	35.0	26.7	56	109
240	470	450			12	43	2080	2310	2290	34.5	26.3	58	112
320	550	530			14	46	2160	2390	2370	34.0	26.0	60	115
400	630	610			16	49	2240	2470	2450	33.5	25.7	62	118
480	710	690			18	52	2320	2550	2530	33.0	25.3	64	121
560	790	770			20	55	2400	2630	2610	32.5	25.0	66	124
640	870	850	40.0	30.0	22	58	2480	2710	2690	32.0	24.7	68	127
720	950	930			24	61	2560	2790	2770	31.5	24.3	70	130
800	1030	1010			26	64	2640	2870	2850	31.0	24.0	72	133
880	1110	1090			28	67	2720	2950	2930	30.5	23.7	74	136
960	1190	1170			30	70	2800	3030	3010	30.0	23.3	76	139
1040	1270	1250			32	73	2880	3110	3090	29.5	23.0	78	142
1120	1350	1330			34	76	2960	3190	3170	29.0	22.7	80	145
1200	1430	1410			36	79	3040	3270	3250	28.5	22.3	82	148
1280	1510	1490	39.5	29.7	38	82	3120	3350	3330	28.0	22.0	84	151
1360	1590	1570	39.0	29.3	40	85	3200	3430	3410	27.5	21.7	86	154
1440	1670	1650	38.5	29.0	42	88	3280	3510	3490	27.0	21.3	88	157
1520	1750	1730	38.0	28.7	44	91	3360	3590	3570	26.5	21.0	90	160
1600	1830	1810	37.5	28.3	46	94	3440	3670	3650	26.0	20.7	92	163
1680	1910	1890	37.0	28.0	48	97	3520	3750	3730	25.5	20.3	94	166
1760	1990	1970	36.5	27.7	50	100	3600	3830	3810	25.0	20.0	96	169
1840	2070	2050	36.0	27.3	52	103							

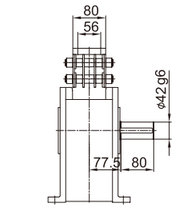
40S
双层箱体
Double magazine

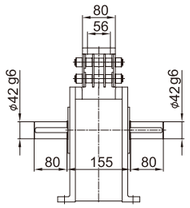


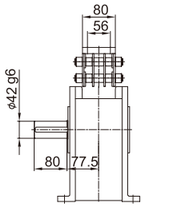






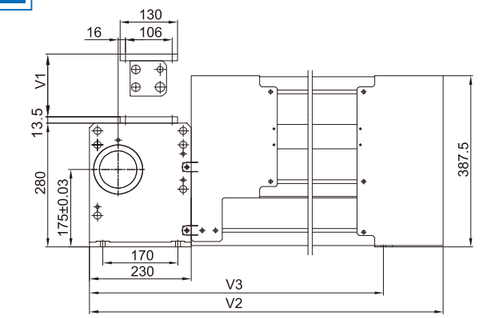


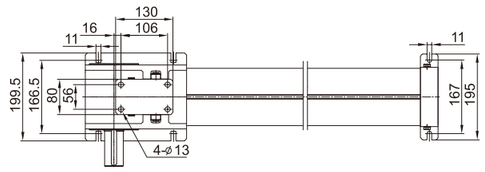


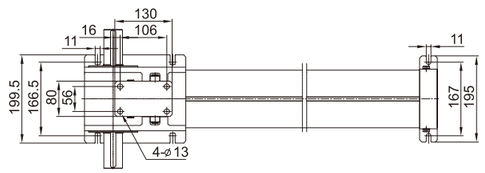


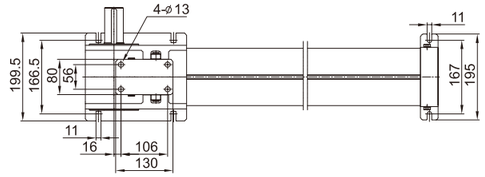
行程 Stroke V1(mm)	总长 Length V2(mm)	地脚 Anchor V3(mm)	静载荷 Sta.load (KN)	动载荷 Dyn.load (KN)	链条自重 Chain weight (Kg)	设备自重 Total weight (Kg)	行程 Stroke V1(mm)	总长 Length V2(mm)	地脚 Anchor V3(mm)	静载荷 Sta.load (KN)	动载荷 Dyn.load (KN)	链条自重 Chain weight (Kg)	设备自重 Total weight (Kg)
480	535	400			18	52	2080	1335	1200	34.5	26.3	58	112
560	575	440			20	55	2160	1375	1240	34.0	26.0	60	115
640	615	480			22	58	2240	1415	1280	33.5	25.7	62	118
720	655	520			24	61	2320	1455	1320	33.0	25.3	64	121
800	695	560			26	64	2400	1495	1360	32.5	25.0	66	124
880	735	600	40.0	30.0	28	67	2480	1535	1400	32.0	24.7	68	127
960	775	640			30	70	2560	1575	1440	31.5	24.3	70	130
1040	815	680			32	73	2640	1615	1480	31.0	24.0	72	133
1120	855	720			34	76	2720	1655	1520	30.5	23.7	74	136
1200	895	760			36	79	2800	1695	1560	30.0	23.3	76	139
1280	935	800	39.5	29.7	38	82	2880	1735	1600	29.5	23.0	78	142
1360	975	840	39.0	29.3	40	85	2960	1775	1640	29.0	22.7	80	145
1440	1015	880	38.5	29.0	42	88	3040	1815	1680	28.5	22.3	82	148
1520	1055	920	38.0	28.7	44	91	3120	1855	1720	28.0	22.0	84	151
1600	1095	960	37.5	28.3	46	94	3200	1895	1760	27.5	21.7	86	154
1680	1135	1000	37.0	28.0	48	97	3280	1935	1800	27.0	21.3	88	157
1760	1175	1040	36.5	27.7	50	100	3360	1975	1840	26.5	21.0	90	160
1840	1215	1080	36.0	27.3	52	103	3440	2015	1880	26.0	20.7	92	163
1920	1255	1120	35.5	27.0	54	106	3520	2055	1920	25.5	20.3	94	166
2000	1295	1160	35.0	26.7	56	109	3600	2095	1960	25.0	20.0	96	169

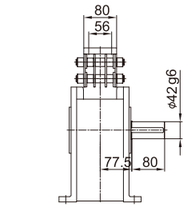
40S
三层箱体
Triple magazine

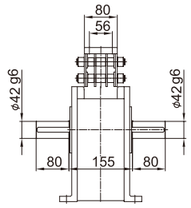


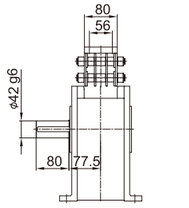






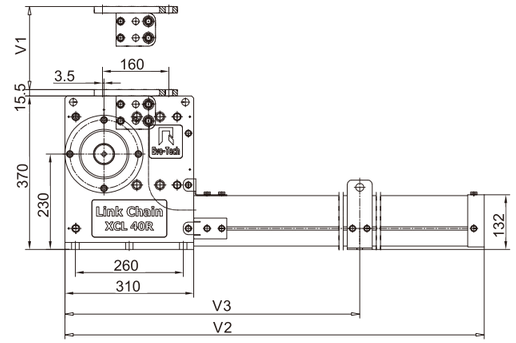


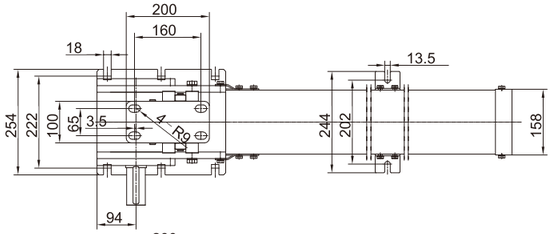


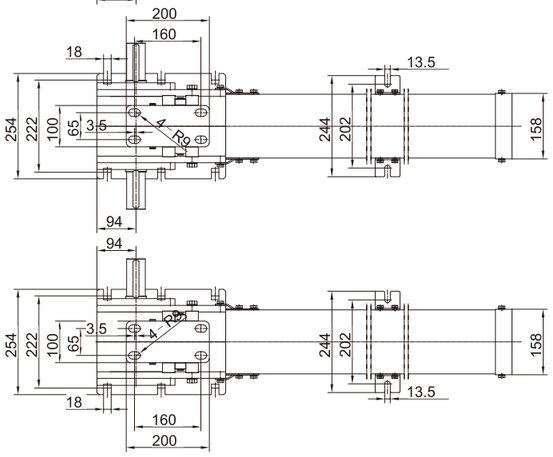


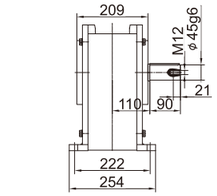
行程 Stroke V1(mm)	总长 Length V2(mm)	地脚 Anchor V3(mm)	静载荷 Sta.load (KN)	动载荷 Dyn.load (KN)	链条自重 Chain weight (Kg)	设备自重 Total weight (Kg)	行程 Stroke V1(mm)	总长 Length V2(mm)	地脚 Anchor V3(mm)	静载荷 Sta.load (KN)	动载荷 Dyn.load (KN)	链条自重 Chain weight (Kg)	设备自重 Total weight (Kg)
960	624	489	40.0	30.0	30	70	2320	1083	948	33.0	25.3	64	121
1040	651	516			32	73	2400	1110	975	32.5	25.0	66	124
1120	678	543			34	76	2480	1137	1002	32.0	24.7	68	127
1200	705	570			36	79	2560	1164	1029	31.5	24.3	70	130
1280	732	597	39.5	29.7	38	82	2640	1191	1056	31.0	24.0	72	133
1360	759	624	39.0	29.3	40	85	2720	1218	1083	30.5	23.7	74	136
1440	786	651	38.5	29.0	42	88	2800	1245	1110	30.0	23.3	76	139
1520	813	678	38.0	28.7	44	91	2880	1272	1137	29.5	23.0	78	142
1600	840	705	37.5	28.3	46	94	2960	1299	1164	29.0	22.7	80	145
1680	867	732	37.0	28.0	48	97	3040	1326	1191	28.5	22.3	82	148
1760	894	759	36.5	27.7	50	100	3120	1353	1218	28.0	22.0	84	151
1840	921	786	36.0	27.3	52	103	3200	1380	1245	27.5	21.7	86	154
1920	948	813	35.5	27.0	54	106	3280	1407	1272	27.0	21.3	88	157
2000	975	840	35.0	26.7	56	109	3360	1434	1299	26.5	21.0	90	160
2080	1002	867	34.5	26.3	58	112	3440	1461	1326	26.0	20.7	92	163
2160	1029	894	34.0	26.0	60	115	3520	1488	1353	25.5	20.3	94	166
2240	1056	921	33.5	25.7	62	118	3600	1515	1380	25.0	20.0	96	169

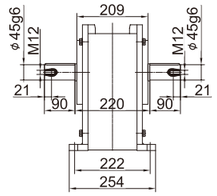
40R
单层箱体
Single magazine

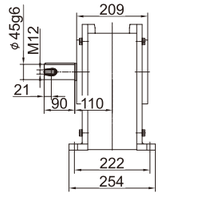




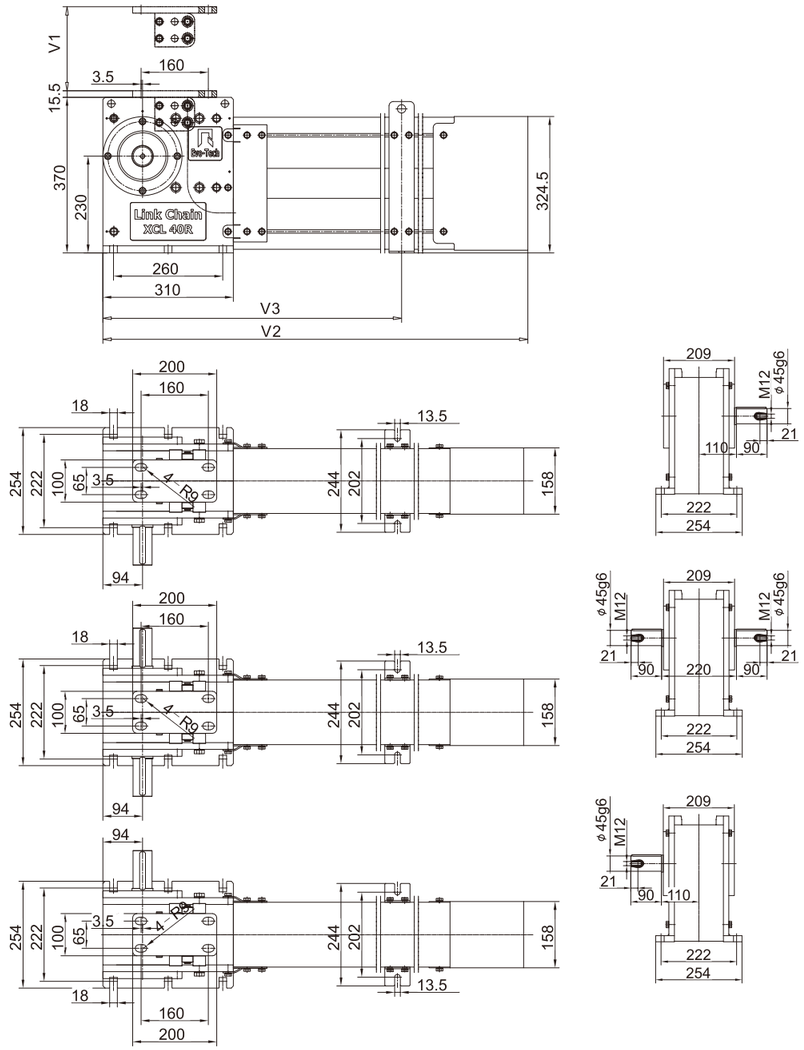




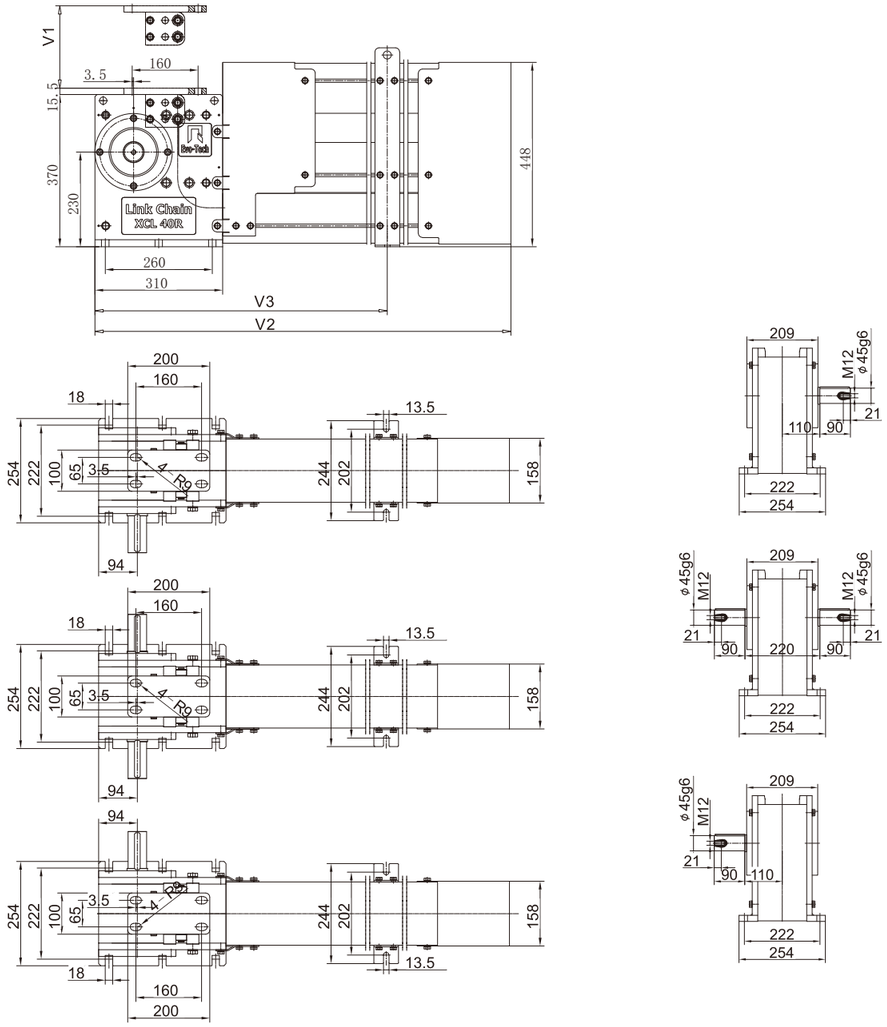




行程 Stroke V1(mm)	总长 Length V2(mm)	地脚 Anchor V3(mm)	静载荷 Sta.load (KN)	动载荷 Dyn.load (KN)	链条自重 Chain weight (Kg)	设备自重 Total weight (Kg)	行程 Stroke V1(mm)	总长 Length V2(mm)	地脚 Anchor V3(mm)	静载荷 Sta.load (KN)	动载荷 Dyn.load (KN)	链条自重 Chain weight (Kg)	设备自重 Total weight (Kg)
480	790	670	40.0	30.0	30	95	2320	2630	2050	37.6	28.4	99	187
560	870	730			33	99	2400	2710	2110	37.0	28.0	102	191
640	950	790			36	103	2480	2790	2170	36.4	27.6	105	195
720	1030	850			39	107	2560	2870	2230	35.8	27.2	108	199
800	1110	910			42	111	2640	2950	2290	35.2	26.8	111	203
880	1190	970			45	115	2720	3030	2350	34.6	26.4	114	207
960	1270	1030			48	119	2800	3110	2410	34.0	26.0	117	211
1040	1350	1090			51	123	2880	3190	2470	33.4	25.6	120	215
1120	1430	1150			54	127	2960	3270	2530	32.8	25.2	123	219
1200	1510	1210			57	131	3040	3350	2590	32.2	24.8	126	223
1280	1590	1270			60	135	3120	3430	2650	31.6	24.4	129	227
1360	1670	1330			63	139	3200	3510	2710	31.0	24.0	132	231
1440	1750	1390			66	143	3280	3590	2770	30.4	23.6	135	235
1520	1830	1450			69	147	3360	3670	2830	29.8	23.2	138	239
1600	1910	1510			72	151	3440	3750	2890	29.2	22.8	141	243
1680	1990	1570			75	155	3520	3830	2950	28.6	22.4	144	247
1760	2070	1630			78	159	3600	3910	3010	28.0	22.0	147	251
1840	2150	1690			81	163	3680	3990	3070	27.4	21.6	150	255
1920	2230	1750			84	167	3760	4070	3130	26.8	21.2	153	259
2000	2310	1810			87	171	3840	4150	3190	26.2	20.8	156	263
2080	2390	1870	39.4	29.6	90	175	3920	4230	3250	25.6	20.4	159	267
2160	2470	1930	38.8	29.2	93	179	4000	4310	3310	25.0	20.0	162	271
2240	2550	1990	38.2	28.8	96	183							

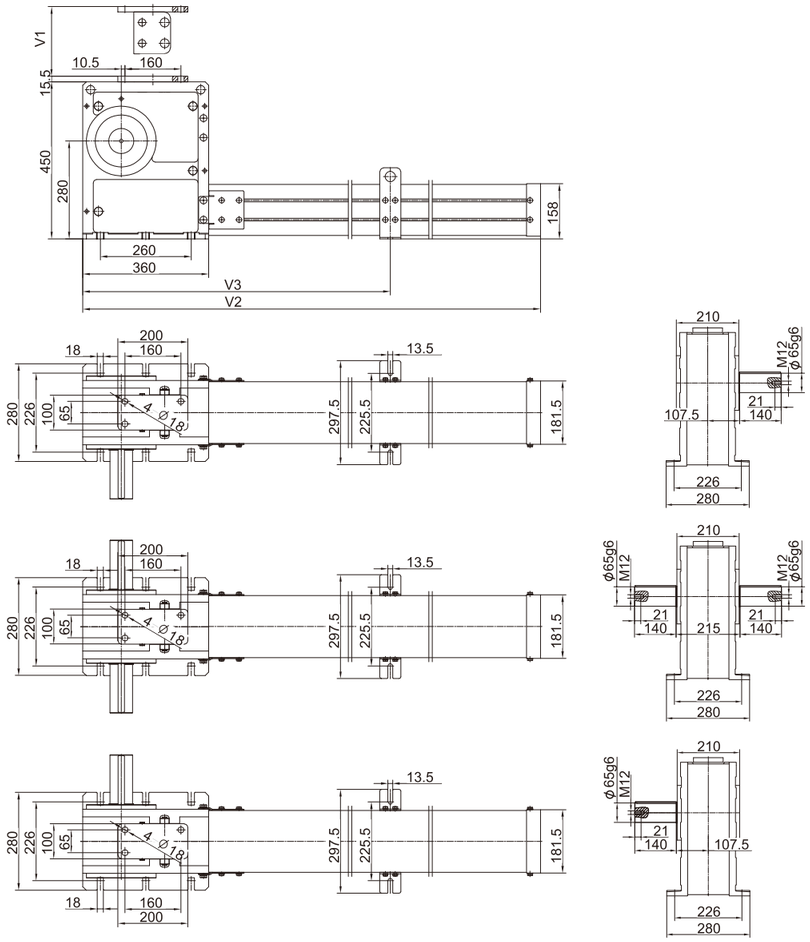


行程 Stroke V1(mm)	总长 Length V2(mm)	地脚 Anchor V3(mm)	静载荷 Sta.load (KN)	动载荷 Dyn.load (KN)	链条自重 Chain weight (Kg)	设备自重 Total weight (Kg)	行程 Stroke V1(mm)	总长 Length V2(mm)	地脚 Anchor V3(mm)	静载荷 Sta.load (KN)	动载荷 Dyn.load (KN)	链条自重 Chain weight (Kg)	设备自重 Total weight (Kg)
720	725	455			39	107	2400	1565	1022	37.0	28.0	102	191
800	765	482			42	111	2480	1605	1049	36.4	27.6	105	195
880	805	509			45	115	2560	1645	1076	35.8	27.2	108	199
960	845	536			48	119	2640	1685	1103	35.2	26.8	111	203
1040	885	563			51	123	2720	1725	1130	34.6	26.4	114	207
1120	925	590			54	127	2800	1765	1157	34.0	26.0	117	211
1200	965	617			57	131	2880	1805	1184	33.4	25.6	120	215
1280	1005	644			60	135	2960	1845	1211	32.8	25.2	123	219
1360	1045	671	40.0	30.0	63	139	3040	1885	1238	32.2	24.8	126	223
1440	1085	698			66	143	3120	1925	1265	31.6	24.4	129	227
1520	1125	725			69	147	3200	1965	1292	31.0	24.0	132	231
1600	1165	752			72	151	3280	2005	1319	30.4	23.6	135	235
1680	1205	779			75	155	3360	2045	1346	29.8	23.2	138	239
1760	1245	806			78	159	3440	2085	1373	29.2	22.8	141	243
1840	1285	833			81	163	3520	2125	1400	28.6	22.4	144	247
1920	1325	860			84	167	3600	2165	1427	28.0	22.0	147	251
2000	1365	887			87	171	3680	2205	1454	27.4	21.6	150	255
2080	1405	914	39.4	29.6	90	175	3760	2245	1481	26.8	21.2	153	259
2160	1445	941	38.8	29.2	93	179	3840	2285	1508	26.2	20.8	156	263
2240	1485	968	38.2	28.8	96	183	3920	2325	1535	25.6	20.4	159	267
2320	1525	995	37.6	28.4	99	187	4000	2365	1562	25.0	20.0	162	271



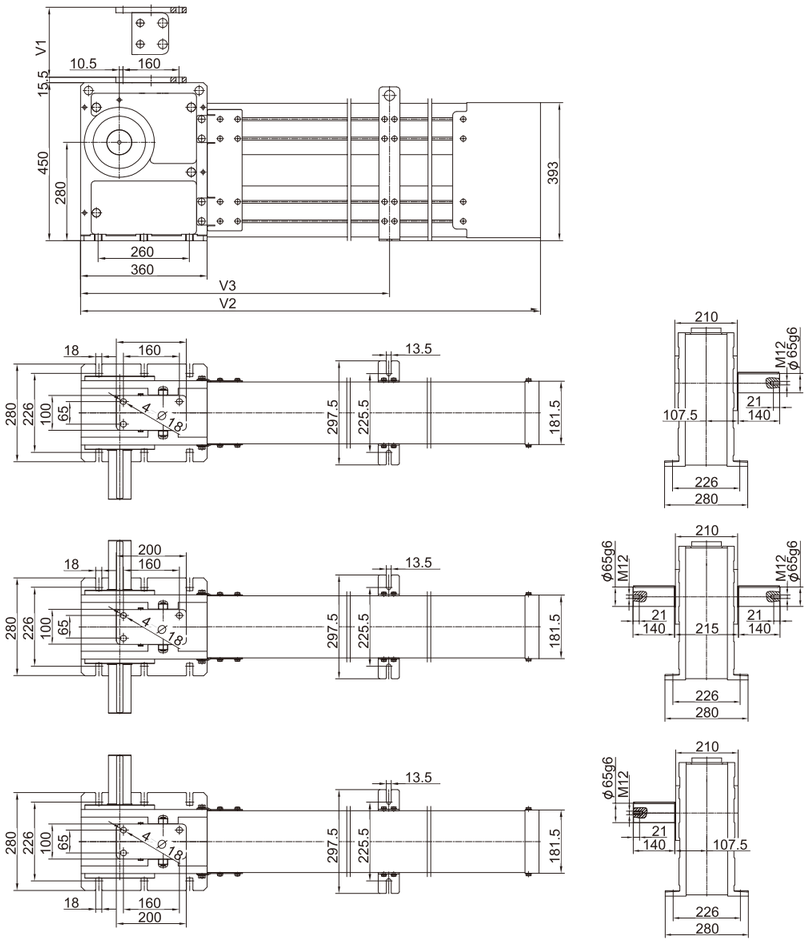
行程 Stroke V1(mm)	总长 Length V2(mm)	地脚 Anchor V3(mm)	静载荷 Sta.load (KN)	动载荷 Dyn.load (KN)	链条自重 Chain weight (Kg)	设备自重 Total weight (Kg)	行程 Stroke V1(mm)	总长 Length V2(mm)	地脚 Anchor V3(mm)	静载荷 Sta.load (KN)	动载荷 Dyn.load (KN)	链条自重 Chain weight (Kg)	设备自重 Total weight (Kg)
1280	826	566			60	135	2720	1312	890	34.6	26.4	114	207
1360	853	584			63	139	2800	1339	908	34.0	26.0	117	211
1440	880	602			66	143	2880	1366	926	33.4	25.6	120	215
1520	907	620			69	147	2960	1393	944	32.8	25.2	123	219
1600	934	638			72	151	3040	1420	962	32.2	24.8	126	223
1680	961	656	40.0	30.0	75	155	3120	1447	980	31.6	24.4	129	227
1760	988	674			78	159	3200	1474	998	31.0	24.0	132	231
1840	1015	692			81	163	3280	1501	1016	30.4	23.6	135	235
1920	1042	710			84	167	3360	1528	1034	29.8	23.2	138	239
2000	1069	728			87	171	3440	1555	1052	29.2	22.8	141	243
2080	1096	746	39.4	29.6	90	175	3520	1582	1070	28.6	22.4	144	247
2160	1123	764	38.8	29.2	93	179	3600	1609	1088	28.0	22.0	147	251
2240	1150	782	38.2	28.8	96	183	3680	1636	1106	27.4	21.6	150	255
2320	1177	800	37.6	28.4	99	187	3760	1663	1124	26.8	21.2	153	259
2400	1204	818	37.0	28.0	102	191	3840	1690	1142	26.2	20.8	156	263
2480	1231	836	36.4	27.6	105	195	3920	1717	1160	25.6	20.4	159	267
2560	1258	854	35.8	27.2	108	199	4000	1744	1178	25.0	20.0	162	271
2640	1285	872	35.2	26.8	111	203							

60R
单层箱体
Single magazine



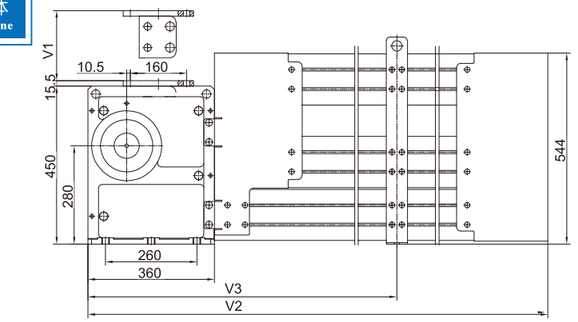
行程 Stroke V1(mm)	总长 Length V2(mm)	地脚 Anchor V3(mm)	静载荷 Sta.load (KN)	动载荷 Dyn.load (KN)	链条自重 Chain weight (Kg)	设备自重 Total weight (Kg)	行程 Stroke V1(mm)	总长 Length V2(mm)	地脚 Anchor V3(mm)	静载荷 Sta.load (KN)	动载荷 Dyn.load (KN)	链条自重 Chain weight (Kg)	设备自重 Total weight (Kg)
480	795	720			34	124	3360	3675	2880	71.7	48.3	154	292
600	915	810			39	131	3480	3795	2970	70.0	47.3	159	299
720	1035	900			44	138	3600	3915	3060	68.3	46.2	164	306
840	1155	990			49	145	3720	4035	3150	66.7	45.2	169	313
960	1275	1080			54	152	3840	4155	3240	65.0	44.1	174	320
1080	1395	1170			59	159	3960	4275	3330	63.3	43.0	179	327
1200	1515	1260			64	166	4080	4395	3420	61.7	42.0	184	334
1320	1635	1350	90.0	60.0	69	173	4200	4515	3510	60.0	40.9	189	341
1440	1755	1440			74	180	4320	4635	3600	58.3	39.8	194	348
1560	1875	1530			79	187	4440	4755	3690	56.7	38.8	199	355
1680	1995	1620			84	194	4560	4875	3780	55.0	37.7	204	362
1800	2115	1710			89	201	4680	4995	3870	53.3	36.7	209	369
1920	2235	1800			94	208	4800	5115	3960	51.7	35.6	214	376
2040	2355	1890			99	215	4920	5235	4050	50.0	34.5	219	383
2160	2475	1980	88.3	58.9	104	222	5040	5355	4140	48.3	33.5	224	390
2280	2595	2070	86.7	57.9	109	229	5160	5475	4230	46.7	32.4	229	397
2400	2715	2160	85.0	56.8	114	236	5280	5595	4320	45.0	31.4	234	404
2520	2835	2250	83.3	55.8	119	243	5400	5715	4410	43.3	30.3	239	411
2640	2955	2340	81.7	54.7	124	250	5520	5835	4500	41.7	29.2	244	418
2760	3075	2430	80.0	53.6	129	257	5640	5955	4590	40.0	28.2	249	425
2880	3195	2520	78.3	52.6	134	264	5760	6075	4680	38.3	27.1	254	432
3000	3315	2610	76.7	51.5	139	271	5880	6195	4770	36.7	26.1	259	439
3120	3435	2700	75.0	50.5	144	278	6000	6315	4860	35.0	25.0	264	446
3240	3555	2790	73.3	49.4	149	285							

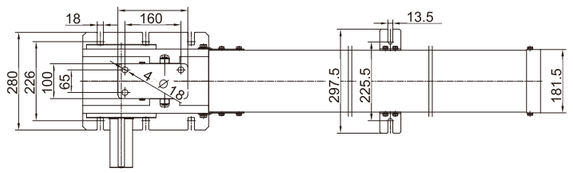
60R
双层箱体
Double magazine

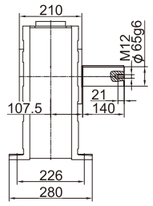


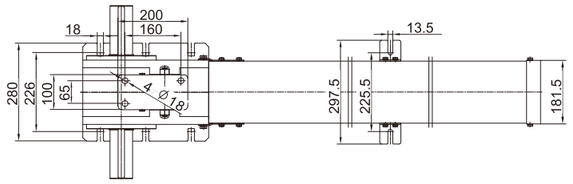
行程 Stroke V1(mm)	总长 Length V2(mm)	地脚 Anchor V3(mm)	静载荷 Sta.load (KN)	动载荷 Dyn.load (KN)	链条自重 Chain weight (Kg)	设备自重 Total weight (Kg)	行程 Stroke V1(mm)	总长 Length V2(mm)	地脚 Anchor V3(mm)	静载荷 Sta.load (KN)	动载荷 Dyn.load (KN)	链条自重 Chain weight (Kg)	设备自重 Total weight (Kg)
840	800	510			49	145	3480	2120	1500	70.0	47.3	159	299
960	860	555			54	152	3600	2180	1545	68.3	46.2	164	306
1080	920	600			59	159	3720	2240	1590	66.7	45.2	169	313
1200	980	645			64	166	3840	2300	1635	65.0	44.1	174	320
1320	1040	690			69	173	3960	2360	1680	63.3	43.0	179	327
1440	1100	735			74	180	4080	2420	1725	61.7	42.0	184	334
1560	1160	780	90.0	60.0	79	187	4200	2480	1770	60.0	40.9	189	341
1680	1220	825			84	194	4320	2540	1815	58.3	39.8	194	348
1800	1280	870			89	201	4440	2600	1860	56.7	38.8	199	355
1920	1340	915			94	208	4560	2660	1905	55.0	37.7	204	362
2040	1400	960			99	215	4680	2720	1950	53.3	36.7	209	369
2160	1460	1005	88.3	58.9	104	222	4800	2780	1995	51.7	35.6	214	376
2280	1520	1050	86.7	57.9	109	229	4920	2840	2040	50.0	34.5	219	383
2400	1580	1095	85.0	56.8	114	236	5040	2900	2085	48.3	33.5	224	390
2520	1640	1140	83.3	55.8	119	243	5160	2960	2130	46.7	32.4	229	397
2640	1700	1185	81.7	54.7	124	250	5280	3020	2175	45.0	31.4	234	404
2760	1760	1230	80.0	53.6	129	257	5400	3080	2220	43.3	30.3	239	411
2880	1820	1275	78.3	52.6	134	264	5520	3140	2265	41.7	29.2	244	418
3000	1880	1320	76.7	51.5	139	271	5640	3200	2310	40.0	28.2	249	425
3120	1940	1365	75.0	50.5	144	278	5760	3260	2355	38.3	27.1	254	432
3240	2000	1410	73.3	49.4	149	285	5880	3320	2400	36.7	26.1	259	439
3360	2060	1455	71.7	48.3	154	292	6000	3380	2445	35.0	25.0	264	446

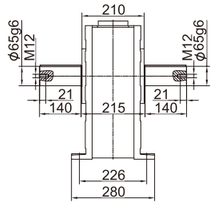
60R
三层箱体
Triple magazine

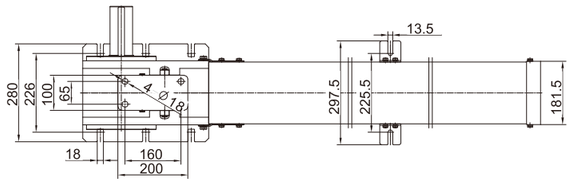


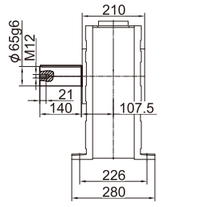






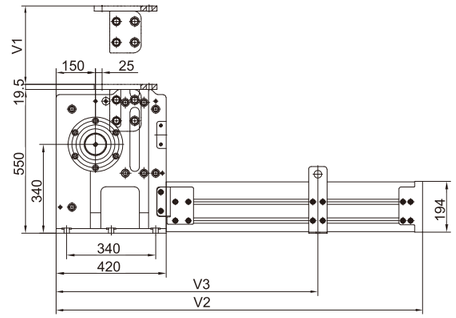


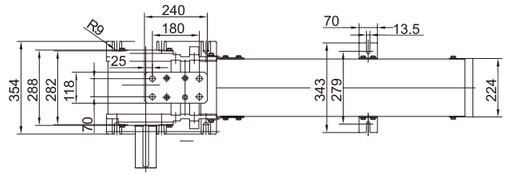


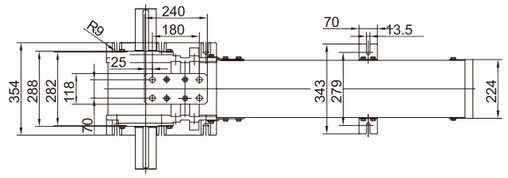


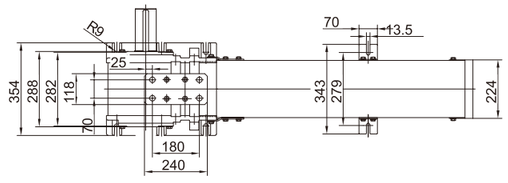
行程 Stroke V1(mm)	总长 Length V2(mm)	地脚 Anchor V3(mm)	静载荷 Sta.load (KN)	动载荷 Dyn.load (KN)	链条自重 Chain weight (Kg)	设备自重 Total weight (Kg)	行程 Stroke V1(mm)	总长 Length V2(mm)	地脚 Anchor V3(mm)	静载荷 Sta.load (KN)	动载荷 Dyn.load (KN)	链条自重 Chain weight (Kg)	设备自重 Total weight (Kg)
1680	970	680	90.0	60.0	84	194	3960	1730	1250	63.3	43.0	179	327
1800	1010	710			89	201	4080	1770	1280	61.7	42.0	184	334
1920	1050	740			94	208	4200	1810	1310	60.0	40.9	189	341
2040	1090	770			99	215	4320	1850	1340	58.3	39.8	194	348
2160	1130	800	88.3	58.9	104	222	4440	1890	1370	56.7	38.8	199	355
2280	1170	830	86.7	57.9	109	229	4560	1930	1400	55.0	37.7	204	362
2400	1210	860	85.0	56.8	114	236	4680	1970	1430	53.3	36.7	209	369
2520	1250	890	83.3	55.8	119	243	4800	2010	1460	51.7	35.6	214	376
2640	1290	920	81.7	54.7	124	250	4920	2050	1490	50.0	34.5	219	383
2760	1330	950	80.0	53.6	129	257	5040	2090	1520	48.3	33.5	224	390
2880	1370	980	78.3	52.6	134	264	5160	2130	1550	46.7	32.4	229	397
3000	1410	1010	76.7	51.5	139	271	5280	2170	1580	45.0	31.4	234	404
3120	1450	1040	75.0	50.5	144	278	5400	2210	1610	43.3	30.3	239	411
3240	1490	1070	73.3	49.4	149	285	5520	2250	1640	41.7	29.2	244	418
3360	1530	1100	71.7	48.3	154	292	5640	2290	1670	40.0	28.2	249	425
3480	1570	1130	70.0	47.3	159	299	5760	2330	1700	38.3	27.1	254	432
3600	1610	1160	68.3	46.2	164	306	5880	2370	1730	36.7	26.1	259	439
3720	1650	1190	66.7	45.2	169	313	6000	2410	1760	35.0	25.0	264	446
3840	1690	1220	65.0	44.1	174	320							

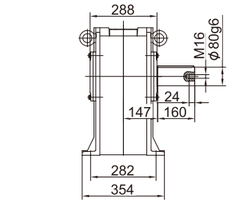
80R
单层箱体
Single magazine

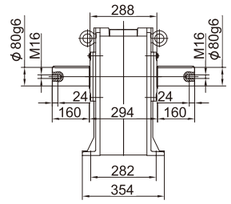


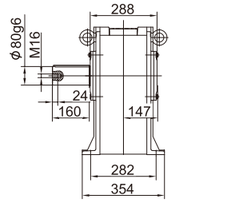






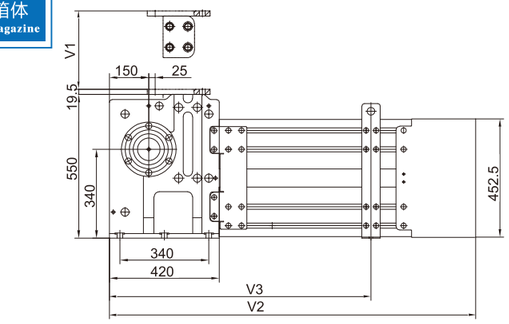


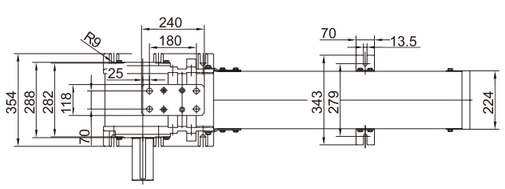


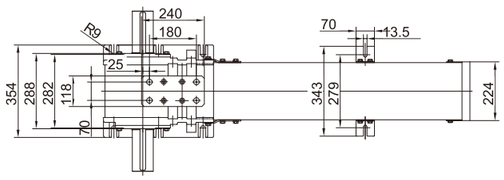


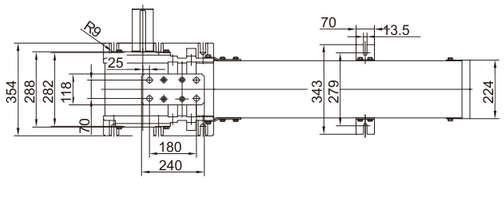
行程 Stroke V1(mm)	总长 Length V2(mm)	地脚 Anchor V3(mm)	静载荷 Sta.load (KN)	动载荷 Dyn.load (KN)	链条自重 Chain weight (Kg)	设备自重 Total weight (Kg)	行程 Stroke V1(mm)	总长 Length V2(mm)	地脚 Anchor V3(mm)	静载荷 Sta.load (KN)	动载荷 Dyn.load (KN)	链条自重 Chain weight (Kg)	设备自重 Total weight (Kg)
640	1060	900	130.0	95.0	63	235	3360	3780	2940	123.9	91.2	199	422
800	1220	1020			71	246	3520	3940	3060	120.9	89.2	207	433
960	1380	1140			79	257	3680	4100	3180	117.8	87.3	215	444
1120	1540	1260			87	268	3840	4260	3300	114.8	85.4	223	455
1280	1700	1380			95	279	4000	4420	3420	111.8	83.5	231	466
1440	1860	1500			103	290	4160	4580	3540	108.7	81.6	239	477
1600	2020	1620			111	301	4320	4740	3660	105.7	79.6	247	488
1760	2180	1740			119	312	4480	4900	3780	102.7	77.7	255	499
1920	2340	1860			127	323	4640	5060	3900	99.6	75.8	263	510
2080	2500	1980			135	334	4800	5220	4020	96.6	73.9	271	521
2240	2660	2100			143	345	4960	5380	4140	93.5	72.0	279	532
2400	2820	2220			151	356	5120	5540	4260	90.5	70.0	287	543
2560	2980	2340			159	367	5280	5700	4380	87.5	68.1	295	554
2720	3140	2460			167	378	5440	5860	4500	84.4	66.2	303	565
2880	3300	2580			175	389	5600	6020	4620	81.4	64.3	311	576
3040	3460	2700			183	400	5760	6180	4740	78.3	62.4	319	587
3200	3620	2820	127.0	93.1	191	411	5920	6340	4860	75.3	60.5	327	598

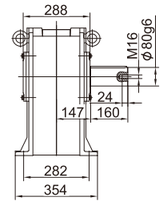
80R
双层箱体
Double magazine

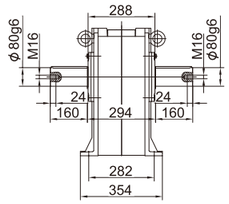






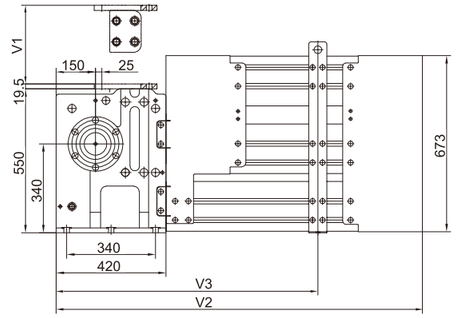


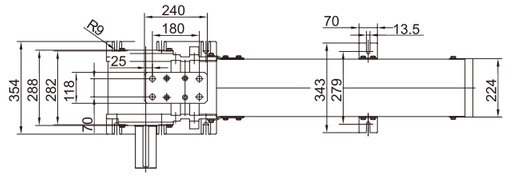


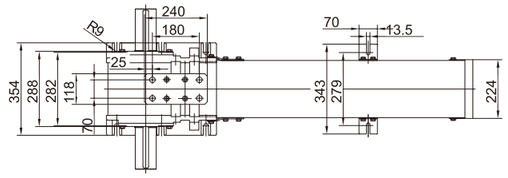


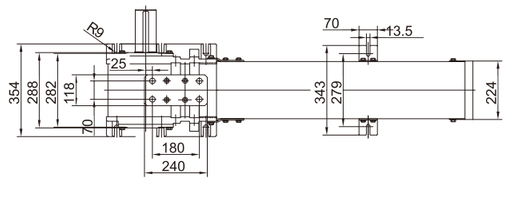
行程 Stroke V1(mm)	总长 Length V2(mm)	地脚 Anchor V3(mm)	静载荷 Sta.load (KN)	动载荷 Dyn.load (KN)	链条自重 Chain weight (Kg)	设备自重 Total weight (Kg)	行程 Stroke V1(mm)	总长 Length V2(mm)	地脚 Anchor V3(mm)	静载荷 Sta.load (KN)	动载荷 Dyn.load (KN)	链条自重 Chain weight (Kg)	设备自重 Total weight (Kg)
960	995	675			79	257	4640	2835	2055	99.6	75.8	263	510
1120	1075	735			87	268	4800	2915	2115	96.6	73.9	271	521
1280	1155	795			95	279	4960	2995	2175	93.5	72.0	279	532
1440	1235	855			103	290	5120	3075	2235	90.5	70.0	287	543
1600	1315	915			111	301	5280	3155	2295	87.5	68.1	295	554
1760	1395	975			119	312	5440	3235	2355	84.4	66.2	303	565
1920	1475	1035	130.0	95.0	127	323	5600	3315	2415	81.4	64.3	311	576
2080	1555	1095			135	334	5760	3395	2475	78.3	62.4	319	587
2240	1635	1155			143	345	5920	3475	2535	75.3	60.5	327	598
2400	1715	1215			151	356	6080	3555	2595	72.3	58.5	335	609
2560	1795	1275			159	367	6240	3635	2655	69.2	56.6	343	620
2720	1875	1335			167	378	6400	3715	2715	66.2	54.7	351	631
2880	1955	1395			175	389	6560	3795	2775	63.1	52.8	359	642
3040	2035	1455			183	400	6720	3875	2835	60.1	50.9	367	653
3200	2115	1515	127.0	93.1	191	411	6880	3955	2895	57.1	48.9	375	664
3360	2195	1575	123.9	91.2	199	422	7040	4035	2955	54.0	47.0	383	675
3520	2275	1635	120.9	89.2	207	433	7200	4115	3015	51.0	45.1	391	686
3680	2355	1695	117.8	87.3	215	444	7360	4195	3075	48.0	43.2	399	697
3840	2435	1755	114.8	85.4	223	455	7520	4275	3135	44.9	41.3	407	708
4000	2515	1815	111.8	83.5	231	466	7680	4355	3195	41.9	39.3	415	719
4160	2595	1875	108.7	81.6	239	477	7840	4435	3255	38.8	37.4	423	730
4320	2675	1935	105.7	79.6	247	488	8000	4515	3315	35.8	35.5	431	741
4480	2755	1995	102.7	77.7	255	499							

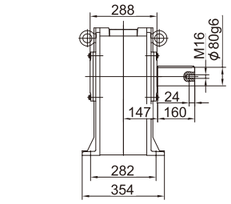
80R
三层箱体
Triple magazine

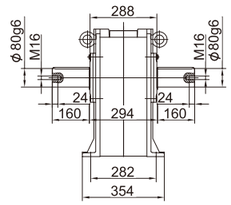






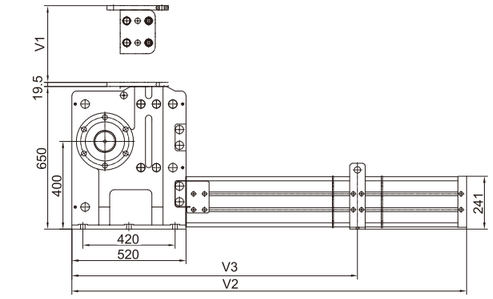


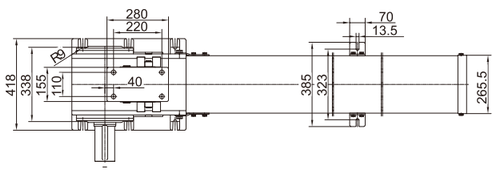


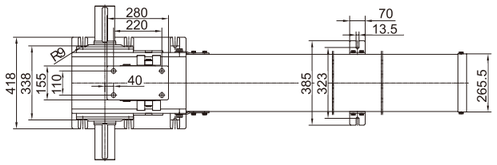


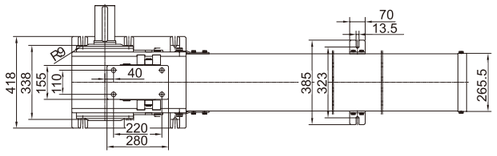
行程 Stroke V1(mm)	总长 Length V2(mm)	地脚 Anchor V3(mm)	静载荷 Sta.load (KN)	动载荷 Dyn.load (KN)	链条自重 Chain weight (Kg)	设备自重 Total weight (Kg)	行程 Stroke V1(mm)	总长 Length V2(mm)	地脚 Anchor V3(mm)	静载荷 Sta.load (KN)	动载荷 Dyn.load (KN)	链条自重 Chain weight (Kg)	设备自重 Total weight (Kg)
2080	1184	965			135	334	5120	2210	1725	90.5	70.0	287	543
2240	1238	1005			143	345	5280	2264	1765	87.5	68.1	295	554
2400	1292	1045			151	356	5440	2318	1805	84.4	66.2	303	565
2560	1346	1085	130.0	95.0	159	367	5600	2372	1845	81.4	64.3	311	576
2720	1400	1125			167	378	5760	2426	1885	78.3	62.4	319	587
2880	1454	1165			175	389	5920	2480	1925	75.3	60.5	327	598
3040	1508	1205			183	400	6080	2534	1965	72.3	58.5	335	609
3200	1562	1245	127.0	93.1	191	411	6240	2588	2005	69.2	56.6	343	620
3360	1616	1285	123.9	91.2	199	422	6400	2642	2045	66.2	54.7	351	631
3520	1670	1325	120.9	89.2	207	433	6560	2696	2085	63.1	52.8	359	642
3680	1724	1365	117.8	87.3	215	444	6720	2750	2125	60.1	50.9	367	653
3840	1778	1405	114.8	85.4	223	455	6880	2804	2165	57.1	48.9	375	664
4000	1832	1445	111.8	83.5	231	466	7040	2858	2205	54.0	47.0	383	675
4160	1886	1485	108.7	81.6	239	477	7200	2912	2245	51.0	45.1	391	686
4320	1940	1525	105.7	79.6	247	488	7360	2966	2285	48.0	43.2	399	697
4480	1994	1565	102.7	77.7	255	499	7520	3020	2325	44.9	41.3	407	708
4640	2048	1605	99.6	75.8	263	510	7680	3074	2365	41.9	39.3	415	719
4800	2102	1645	96.6	73.9	271	521	7840	3128	2405	38.8	37.4	423	730
4960	2156	1685	93.5	72.0	279	532	8000	3182	2445	35.8	35.5	431	741

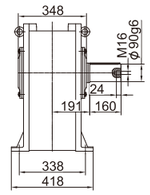
100A
单层箱体
Single magazine

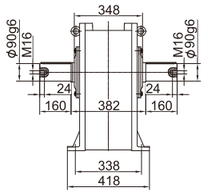


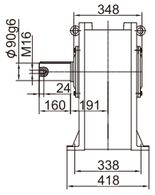






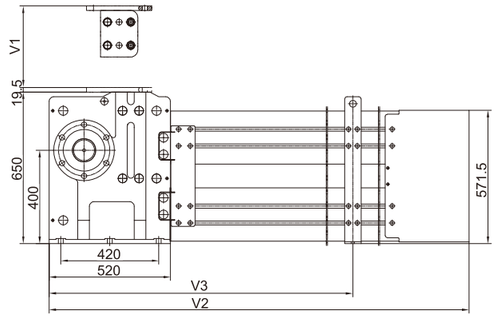


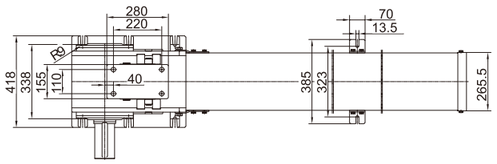


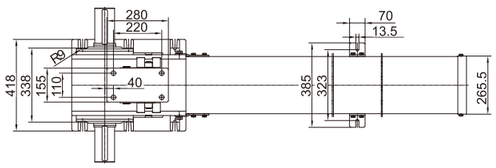


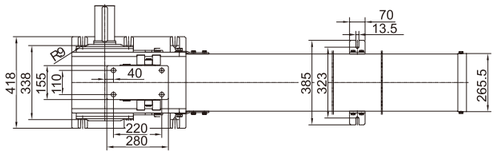
行程 Stroke V1(mm)	总长 Length V2(mm)	地脚 Anchor V3(mm)	静载荷 Sta.load (KN)	动载荷 Dyn.load (KN)	链条自重 Chain weight (Kg)	设备自重 Total weight (Kg)	行程 Stroke V1(mm)	总长 Length V2(mm)	地脚 Anchor V3(mm)	静载荷 Sta.load (KN)	动载荷 Dyn.load (KN)	链条自重 Chain weight (Kg)	设备自重 Total weight (Kg)
800	1400	1200			110	400	4200	4800	3750			365	723
1000	1600	1350			125	419	4400	5000	3900			380	742
1200	1800	1500			140	438	4600	5200	4050			395	761
1400	2000	1650			155	457	4800	5400	4200			410	780
1600	2200	1800			170	476	5000	5600	4350			425	799
1800	2400	1950			185	495	5200	5800	4500	140.0	100.0	440	818
2000	2600	2100			200	514	5400	6000	4650			455	837
2200	2800	2250			215	533	5600	6200	4800			470	856
2400	3000	2400	140.0	100.0	230	552	5800	6400	4950			485	875
2600	3200	2550			245	571	6000	6600	5100			500	894
2800	3400	2700			260	590	6200	6800	5250	134.3	96.0	515	913
3000	3600	2850			275	609	6400	7000	5400	128.5	92.0	530	932
3200	3800	3000			290	628	6600	7200	5550	122.8	88.0	545	951
3400	4000	3150			305	647	6800	7400	5700	117.0	84.0	560	970
3600	4200	3300			320	666	7000	7600	5850	111.3	80.0	575	989
3800	4400	3450			335	685	7200	7800	6000	105.5	76.0	590	1008
4000	4600	3600			350	704	7400	8000	6150	99.8	72.0	605	1027

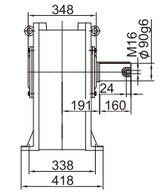
100A
双层箱体
Double magazine

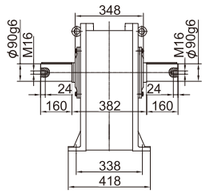


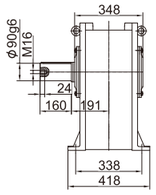






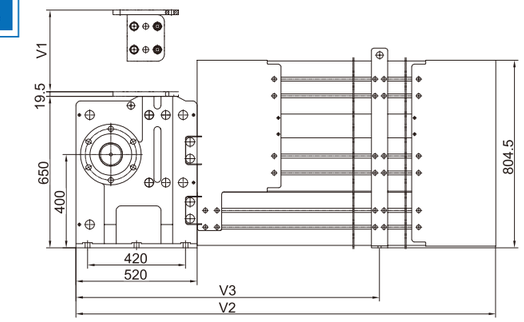


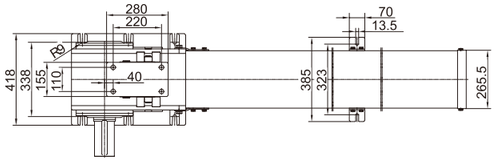


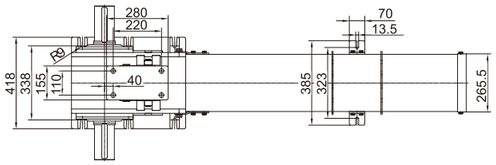


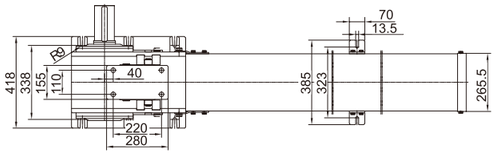
行程 Stroke V1(mm)	总长 Length V2(mm)	地脚 Anchor V3(mm)	静载荷 Sta.load (KN)	动载荷 Dyn.load (KN)	链条自重 Chain weight (Kg)	设备自重 Total weight (Kg)	行程 Stroke V1(mm)	总长 Length V2(mm)	地脚 Anchor V3(mm)	静载荷 Sta.load (KN)	动载荷 Dyn.load (KN)	链条自重 Chain weight (Kg)	设备自重 Total weight (Kg)
1200	1235	841			140	438	5800	3535	2566	140.0	100.0	485	875
1400	1335	916			155	457	6000	3635	2641			500	894
1600	1435	991			170	476	6200	3735	2716	134.3	96.0	515	913
1800	1535	1066			185	495	6400	3835	2791	128.5	92.0	530	932
2000	1635	1141			200	514	6600	3935	2866	122.8	88.0	545	951
2200	1735	1216			215	533	6800	4035	2941	117.0	84.0	560	970
2400	1835	1291			230	552	7000	4135	3016	111.3	80.0	575	989
2600	1935	1366			245	571	7200	4235	3091	105.5	76.0	590	1008
2800	2035	1441			260	590	7400	4335	3166	99.8	72.0	605	1027
3000	2135	1516			275	609	7600	4435	3241	94.0	68.0	620	1046
3200	2235	1591			290	628	7800	4535	3316	88.3	64.0	635	1065
3400	2335	1666	140.0	100.0	305	647	8000	4635	3391	82.5	60.0	650	1084
3600	2435	1741			320	666	8200	4735	3466	76.8	56.0	665	1103
3800	2535	1816			335	685	8400	4835	3541	71.0	52.0	680	1122
4000	2635	1891			350	704	8600	4935	3616	65.3	48.0	695	1141
4200	2735	1966			365	723	8800	5035	3691	59.5	44.0	710	1160
4400	2835	2041			380	742	9000	5135	3766	53.8	40.0	725	1179
4600	2935	2116			395	761	9200	5235	3841	48.0	36.0	740	1198
4800	3035	2191			410	780	9400	5335	3916	42.3	32.0	755	1217
5000	3135	2266			425	799	9600	5435	3991	36.5	28.0	770	1236
5200	3235	2341			440	818	9800	5535	4066	30.8	24.0	785	1255
5400	3335	2416			455	837	10000	5635	4141	25.0	20.0	800	1274
5600	3435	2491			470	856							

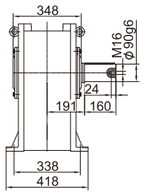
100A
三层箱体
Triple magazine

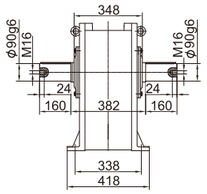


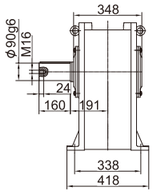






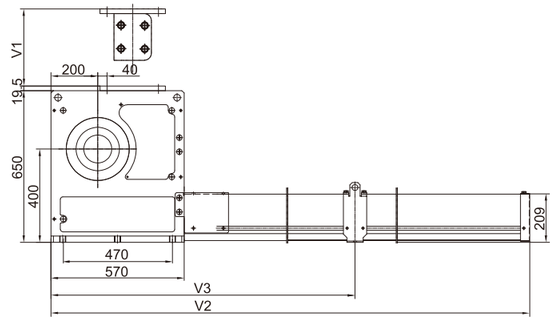


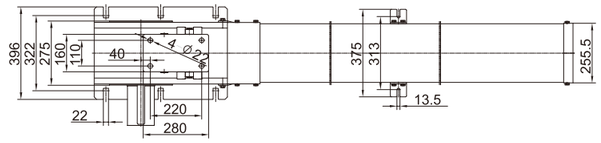


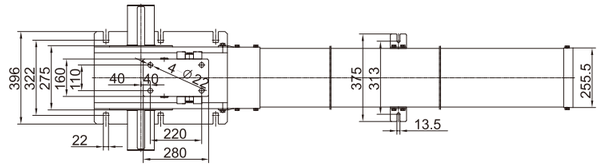


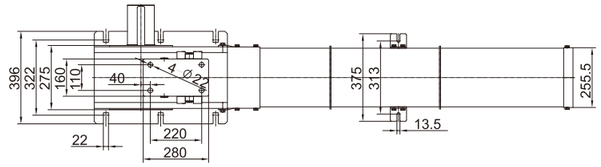
行程 Stroke V1(mm)	总长 Length V2(mm)	地脚 Anchor V3(mm)	静载荷 Sta.load (KN)	动载荷 Dyn.load (KN)	链条自重 Chain weight (Kg)	设备自重 Total weight (Kg)	行程 Stroke V1(mm)	总长 Length V2(mm)	地脚 Anchor V3(mm)	静载荷 Sta.load (KN)	动载荷 Dyn.load (KN)	链条自重 Chain weight (Kg)	设备自重 Total weight (Kg)
2000	1334	918			200	514	6200	2741	1968	134.3	96.0	515	913
2200	1401	968			215	533	6400	2808	2018	128.5	92.0	530	932
2400	1468	1018			230	552	6600	2875	2068	122.8	88.0	545	951
2600	1535	1068			245	571	6800	2942	2118	117.0	84.0	560	970
2800	1602	1118			260	590	7000	3009	2168	111.3	80.0	575	989
3000	1669	1168			275	609	7200	3076	2218	105.5	76.0	590	1008
3200	1736	1218			290	628	7400	3143	2268	99.8	72.0	605	1027
3400	1803	1268			305	647	7600	3210	2318	94.0	68.0	620	1046
3600	1870	1318			320	666	7800	3277	2368	88.3	64.0	635	1065
3800	1937	1368			335	685	8000	3344	2418	82.5	60.0	650	1084
4000	2004	1418	140.0	100.0	350	704	8200	3411	2468	76.8	56.0	665	1103
4200	2071	1468			365	723	8400	3478	2518	71.0	52.0	680	1122
4400	2138	1518			380	742	8600	3545	2568	65.3	48.0	695	1141
4600	2205	1568			395	761	8800	3612	2618	59.5	44.0	710	1160
4800	2272	1618			410	780	9000	3679	2668	53.8	40.0	725	1179
5000	2339	1668			425	799	9200	3746	2718	48.0	36.0	740	1198
5200	2406	1718			440	818	9400	3813	2768	42.3	32.0	755	1217
5400	2473	1768			455	837	9600	3880	2818	36.5	28.0	770	1236
5600	2540	1818			470	856	9800	3947	2868	30.8	24.0	785	1255
5800	2607	1868			485	875	10000	4014	2918	25.0	20.0	800	1274
6000	2674	1918			500	894							

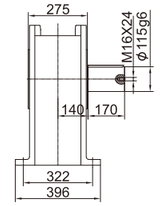
100R
单层箱体
Single magazine

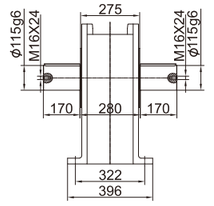


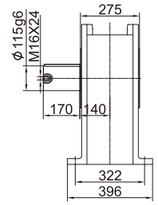






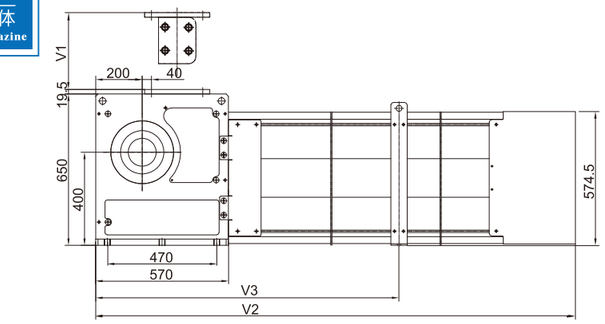


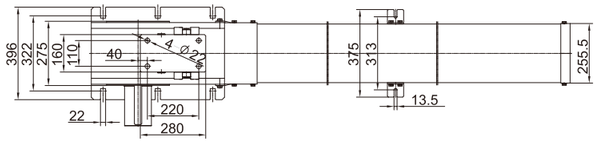


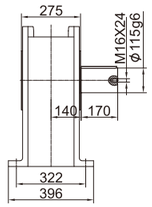


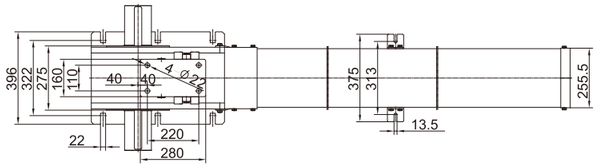
行程 Stroke V1(mm)	总长 Length V2(mm)	地脚 Anchor V3(mm)	静载荷 Sta.load (KN)	动载荷 Dyn.load (KN)	链条自重 Chain weight (Kg)	设备自重 Total weight (Kg)	行程 Stroke V1(mm)	总长 Length V2(mm)	地脚 Anchor V3(mm)	静载荷 Sta.load (KN)	动载荷 Dyn.load (KN)	链条自重 Chain weight (Kg)	设备自重 Total weight (Kg)
800	1400	1170			115	415	4200	4800	3720	200.0	150.0	387	755
1000	1600	1320			131	435	4400	5000	3870			403	775
1200	1800	1470			147	455	4600	5200	4020	194.3	146.1	419	795
1400	2000	1620			163	475	4800	5400	4170	188.6	142.1	435	815
1600	2200	1770			179	495	5000	5600	4320	182.9	138.2	451	835
1800	2400	1920			195	515	5200	5800	4470	177.1	134.3	467	855
2000	2600	2070			211	535	5400	6000	4620	171.4	130.4	483	875
2200	2800	2220			227	555	5600	6200	4770	165.7	126.4	499	895
2400	3000	2370	200.0	150.0	243	575	5800	6400	4920	160.0	122.5	515	915
2600	3200	2520			259	595	6000	6600	5070	154.3	118.6	531	935
2800	3400	2670			275	615	6200	6800	5220	148.6	114.6	547	955
3000	3600	2820			291	635	6400	7000	5370	142.9	110.7	563	975
3200	3800	2970			307	655	6600	7200	5520	137.1	106.8	579	995
3400	4000	3120			323	675	6800	7400	5670	131.4	102.9	595	1015
3600	4200	3270			339	695	7000	7600	5820	125.7	98.9	611	1035
3800	4400	3420			355	715	7200	7800	5970	120.0	95.0	627	1055
4000	4600	3570			371	735	7400	8000	6120	114.3	91.1	643	1075

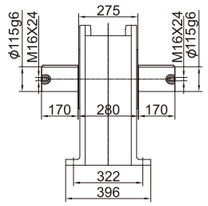
100R
双层箱体
Double magazine





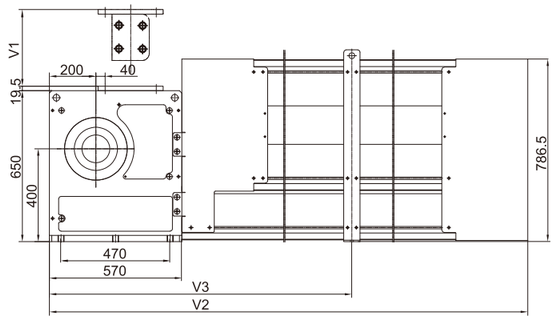


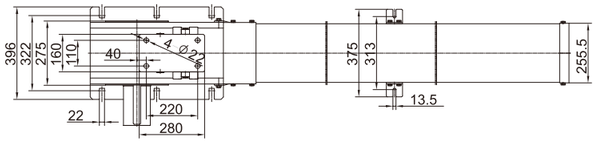


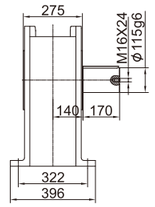


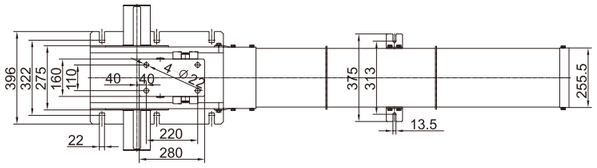
行程 Stroke V1(mm)	总长 Length V2(mm)	地脚 Anchor V3(mm)	静载荷 Sta.load (KN)	动载荷 Dyn.load (KN)	链条自重 Chain weight (Kg)	设备自重 Total weight (Kg)	行程 Stroke V1(mm)	总长 Length V2(mm)	地脚 Anchor V3(mm)	静载荷 Sta.load (KN)	动载荷 Dyn.load (KN)	链条自重 Chain weight (Kg)	设备自重 Total weight (Kg)
1200	1285	910			147	455	5800	3585	2635	160.0	122.5	515	915
1400	1385	985			163	475	6000	3685	2710	154.3	118.6	531	935
1600	1485	1060			179	495	6200	3785	2785	148.6	114.6	547	955
1800	1585	1135			195	515	6400	3885	2860	142.9	110.7	563	975
2000	1685	1210			211	535	6600	3985	2935	137.1	106.8	579	995
2200	1785	1285			227	555	6800	4085	3010	131.4	102.9	595	1015
2400	1885	1360			243	575	7000	4185	3085	125.7	98.9	611	1035
2600	1985	1435			259	595	7200	4285	3160	120.0	95.0	627	1055
2800	2085	1510	200.0	150.0	275	615	7400	4385	3235	114.3	91.1	643	1075
3000	2185	1585			291	635	7600	4485	3310	108.6	87.1	659	1095
3200	2285	1660			307	655	7800	4585	3385	102.9	83.2	675	1115
3400	2385	1735			323	675	8000	4685	3460	97.1	79.3	691	1135
3600	2485	1810			339	695	8200	4785	3535	91.4	75.4	707	1155
3800	2585	1885			355	715	8400	4885	3610	85.7	71.4	723	1175
4000	2685	1960			371	735	8600	4985	3685	80.0	67.5	739	1195
4200	2785	2035			387	755	8800	5085	3760	74.3	63.6	755	1215
4400	2885	2110			403	775	9000	5185	3835	68.6	59.6	771	1235
4600	2985	2185	194.3	146.1	419	795	9200	5285	3910	62.9	55.7	787	1255
4800	3085	2260	188.6	142.1	435	815	9400	5385	3985	57.1	51.8	803	1275
5000	3185	2335	182.9	138.2	451	835	9600	5485	4060	51.4	47.9	819	1295
5200	3285	2410	177.1	134.3	467	855	9800	5585	4135	45.7	43.9	835	1315
5400	3385	2485	171.4	130.4	483	875	10000	5685	4210	40.0	40.0	851	1335

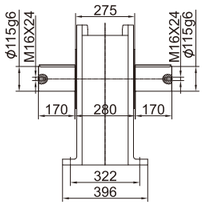
100R
三层箱体
Triple magazine





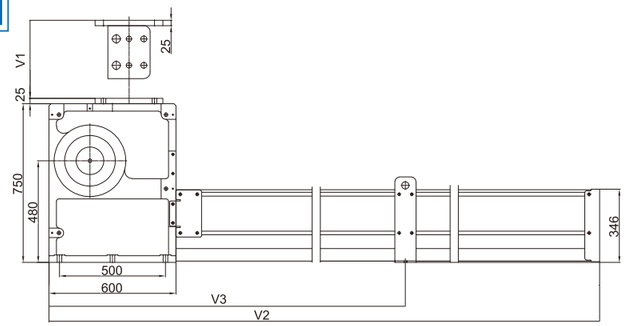


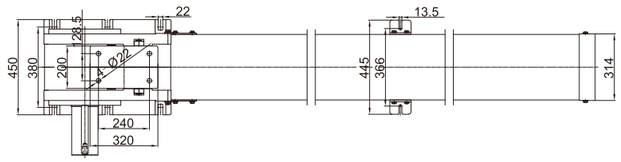


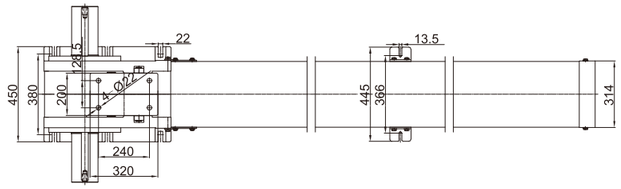


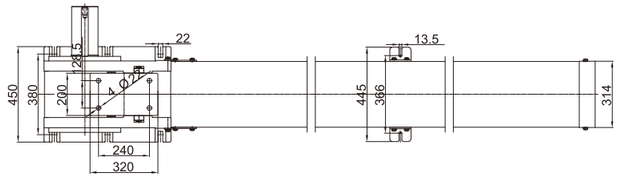
行程 Stroke V1(mm)	总长 Length V2(mm)	地脚 Anchor V3(mm)	静载荷 Sta.load (KN)	动载荷 Dyn.load (KN)	链条自重 Chain weight (Kg)	设备自重 Total weight (Kg)	行程 Stroke V1(mm)	总长 Length V2(mm)	地脚 Anchor V3(mm)	静载荷 Sta.load (KN)	动载荷 Dyn.load (KN)	链条自重 Chain weight (Kg)	设备自重 Total weight (Kg)
2000	1384	977			211	535	6200	2791	1922	148.6	114.6	547	955
2200	1451	1022			227	555	6400	2858	1967	142.9	110.7	563	975
2400	1518	1067			243	575	6600	2925	2012	137.1	106.8	579	995
2600	1585	1112			259	595	6800	2992	2057	131.4	102.9	595	1015
2800	1652	1157			275	615	7000	3059	2102	125.7	98.9	611	1035
3000	1719	1202			291	635	7200	3126	2147	120.0	95.0	627	1055
3200	1786	1247	200.0	150.0	307	655	7400	3193	2192	114.3	91.1	643	1075
3400	1853	1292			323	675	7600	3260	2237	108.6	87.1	659	1095
3600	1920	1337			339	695	7800	3327	2282	102.9	83.2	675	1115
3800	1987	1382			355	715	8000	3394	2327	97.1	79.3	691	1135
4000	2054	1427			371	735	8200	3461	2372	91.4	75.4	707	1155
4200	2121	1472			387	755	8400	3528	2417	85.7	71.4	723	1175
4400	2188	1517			403	775	8600	3595	2462	80.0	67.5	739	1195
4600	2255	1562	194.3	146.1	419	795	8800	3662	2507	74.3	63.6	755	1215
4800	2322	1607	188.6	142.1	435	815	9000	3729	2552	68.6	59.6	771	1235
5000	2389	1652	182.9	138.2	451	835	9200	3796	2597	62.9	55.7	787	1255
5200	2456	1697	177.1	134.3	467	855	9400	3863	2642	57.1	51.8	803	1275
5400	2523	1742	171.4	130.4	483	875	9600	3930	2687	51.4	47.9	819	1295
5600	2590	1787	165.7	126.4	499	895	9800	3997	2732	45.7	43.9	835	1315
5800	2657	1832	160.0	122.5	515	915	10000	4064	2777	40.0	40.0	851	1335
6000	2724	1877	154.3	118.6	531	935							

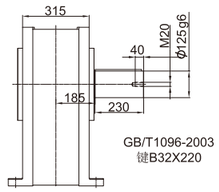
125R
单层箱体
Single magazine



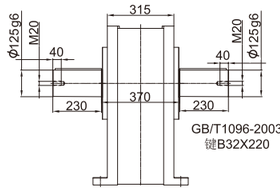








GB/T1096-2003
键B32X220



GB/T1096-2003
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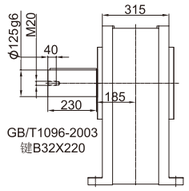
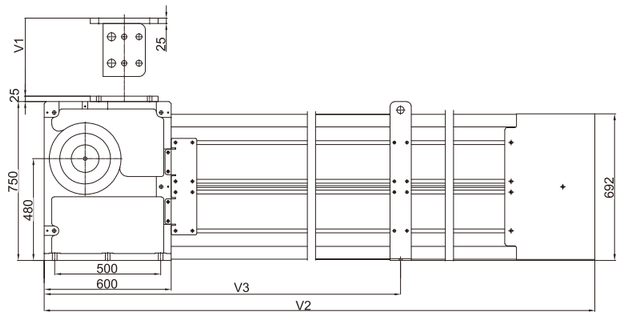
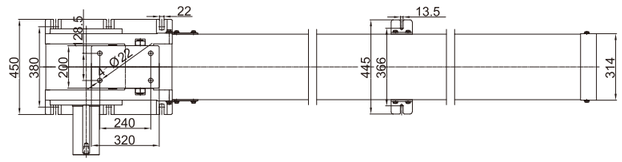


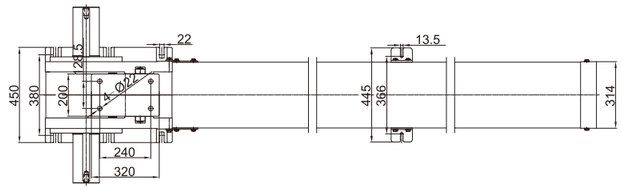
GB/T1096-2003
键B32X220

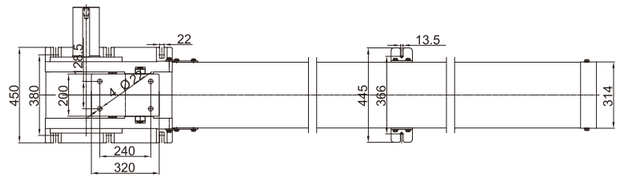
行程 Stroke V1(mm)	总长 Length V2(mm)	地脚 Anchor V3(mm)	静载荷 Sta.load (KN)	动载荷 Dyn.load (KN)	链条自重 Chain weight (Kg)	设备自重 Total weight (Kg)	行程 Stroke V1(mm)	总长 Length V2(mm)	地脚 Anchor V3(mm)	静载荷 Sta.load (KN)	动载荷 Dyn.load (KN)	链条自重 Chain weight (Kg)	设备自重 Total weight (Kg)
1000	1805	1300	250.0	200.0	171	660	4000	4805	4300	250.0	200.0	471	1092
1250	2055	1550			196	696	4250	5055	4550			496	1128
1500	2305	1800			221	732	4500	5305	4800			521	1164
1750	2555	2050			246	768	4750	5555	5050			546	1200
2000	2805	2300			271	804	5000	5805	5300			571	1236
2250	3055	2550			296	840	5250	6055	5550			596	1272
2500	3305	2800			321	876	5500	6305	5800			621	1308
2750	3555	3050			346	912	5750	6555	6050			646	1344
3000	3805	3300			371	948	6000	6805	6300			671	1380
3250	4055	3550			396	984	6250	7055	6550	242.5	193.9	696	1416
3500	4305	3800			421	1020	6500	7305	6800	235	187.9	721	1452
3750	4555	4050			446	1056							

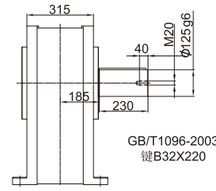
125R
双层箱体
Double magazine



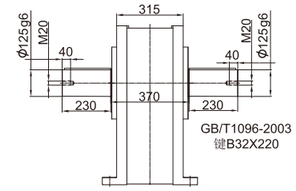








GB/T1096-2003
键B32X220



GB/T1096-2003
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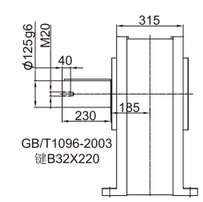
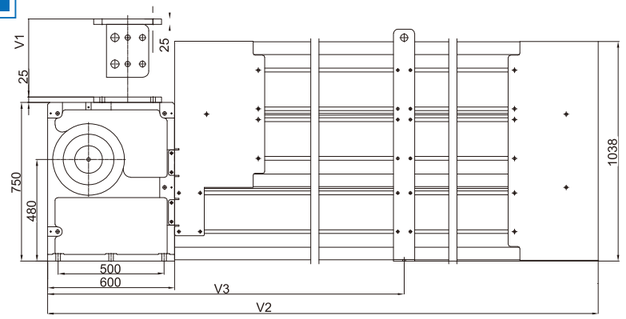
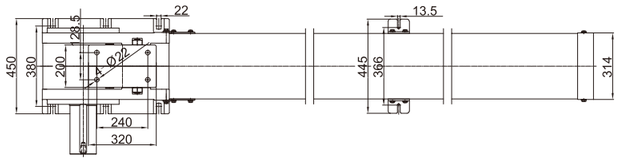


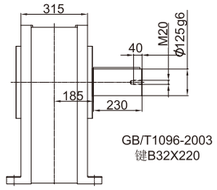
GB/T1096-2003
键B32X220

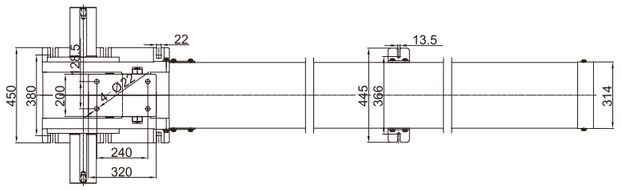
行程 Stroke V1(mm)	总长 Length V2(mm)	地脚 Anchor V3(mm)	静载荷 Sta.load (KN)	动载荷 Dyn.load (KN)	链条自重 Chain weight (Kg)	设备自重 Total weight (Kg)	行程 Stroke V1(mm)	总长 Length V2(mm)	地脚 Anchor V3(mm)	静载荷 Sta.load (KN)	动载荷 Dyn.load (KN)	链条自重 Chain weight (Kg)	设备自重 Total weight (Kg)
1250	1350	845	250.0	200.0	209	699	7250	4350	3245	212.5	169.6	833	1659
1500	1475	945			235	739	7500	4475	3345	205.0	163.5	859	1699
1750	1600	1045			261	779	7750	4600	3445	197.5	157.5	885	1739
2000	1725	1145			287	819	8000	4725	3545	190.0	151.4	911	1779
2250	1850	1245			313	859	8250	4850	3645	182.5	145.3	937	1819
2500	1975	1345			339	899	8500	4975	3745	175.0	139.3	963	1859
2750	2100	1445			365	939	8750	5100	3845	167.5	133.2	989	1899
3000	2225	1545			391	979	9000	5225	3945	160.0	127.1	1015	1939
3250	2350	1645			417	1019	9250	5350	4045	152.5	121.0	1041	1979
3500	2475	1745			443	1059	9500	5475	4145	145.0	115.0	1067	2019
3750	2600	1845			469	1099	9750	5600	4245	137.5	108.9	1093	2059
4000	2725	1945			495	1139	10000	5725	4345	130.0	102.8	1119	2099
4250	2850	2045			521	1179	10250	5850	4445	122.5	96.8	1145	2139
4500	2975	2145			547	1219	10500	5975	4545	115.0	90.7	1171	2179
4750	3100	2245			573	1259	10750	6100	4645	107.5	84.6	1197	2219
5000	3225	2345			599	1299	11000	6225	4745	100.0	78.6	1223	2259
5250	3350	2445			625	1339	11250	6350	4845	92.5	72.5	1249	2299
5500	3475	2545			651	1379	11500	6475	4945	85.0	66.4	1275	2339
5750	3600	2645			677	1419	11750	6600	5045	77.5	60.3	1301	2379
6000	3725	2745			703	1459	12000	6725	5145	70.0	54.3	1327	2419
6250	3850	2845	242.5	193.9	729	1499	12250	6850	5245	62.5	48.2	1353	2459
6500	3975	2945	235.0	187.9	755	1539	12500	6975	5345	55.0	42.1	1379	2499
6750	4100	3045	227.5	181.9	781	1579	12750	7100	5445	47.5	36.1	1405	2539
7000	4225	3145	220.0	175.9	807	1619	13000	7225	5545	40.0	30.0	1431	2579

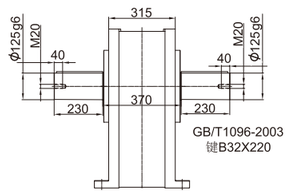
125R
三层箱体
Triple magazine

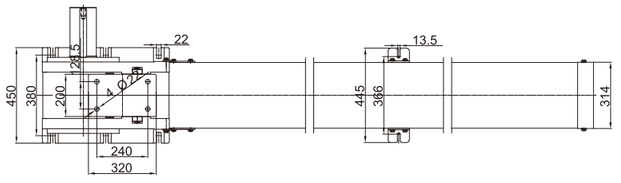


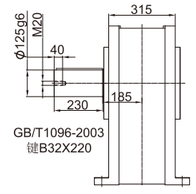






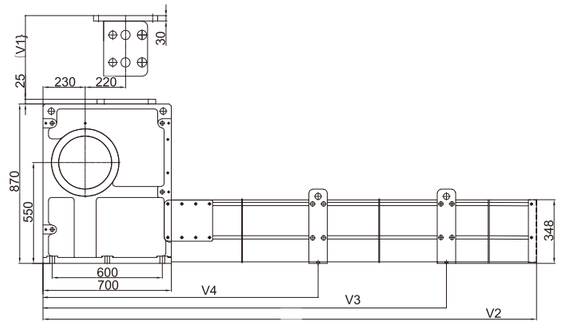


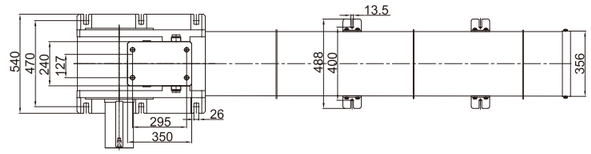


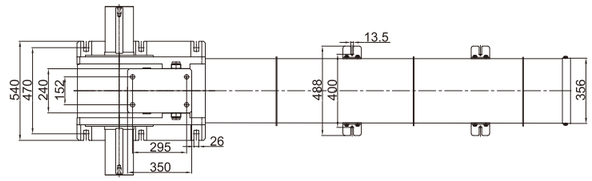


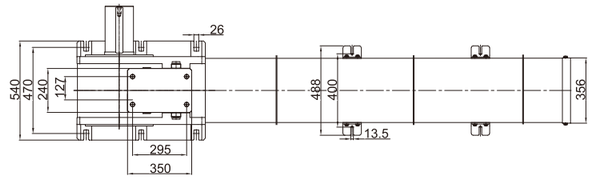
行程 Stroke V1(mm)	总长 Length V2(mm)	地脚 Anchor V3(mm)	静载荷 Sta.load (KN)	动载荷 Dyn.load (KN)	链条自重 Chain weight (Kg)	设备自重 Total weight (Kg)	行程 Stroke V1(mm)	总长 Length V2(mm)	地脚 Anchor V3(mm)	静载荷 Sta.load (KN)	动载荷 Dyn.load (KN)	链条自重 Chain weight (Kg)	设备自重 Total weight (Kg)
3000	1730	1165			392	1003	8250	3485	2635	182.5	145.4	938	1843
3250	1815	1235			418	1043	8500	3565	2705	175.0	139.3	964	1883
3500	1895	1305			444	1083	8750	3650	2775	167.5	133.3	990	1923
3750	1980	1375			470	1123	9000	3735	2845	160.0	127.2	1016	1963
4000	2065	1445			496	1163	9250	3815	2915	152.5	121.1	1042	2003
4250	2145	1515			522	1203	9500	3900	2985	145.0	115.0	1068	2043
4500	2230	1585	250.0	200.0	548	1243	9750	3985	3055	137.5	109.0	1094	2083
4750	2315	1655			574	1283	10000	4065	3125	130.0	102.9	1120	2123
5000	2395	1725			600	1323	10250	4150	3195	122.5	96.8	1146	2163
5250	2480	1795			626	1363	10500	4235	3265	115.0	90.7	1172	2203
5500	2565	1865			652	1403	10750	4320	3335	107.5	84.7	1198	2243
5750	2650	1935			678	1443	11000	4400	3405	100.0	78.6	1224	2283
6000	2730	2005			704	1483	11250	4485	3475	92.5	72.5	1250	2323
6250	2815	2075	242.5	193.9	730	1523	11500	4570	3545	85.0	66.4	1276	2363
6500	2900	2145	235.0	187.9	756	1563	11750	4650	3615	77.5	60.4	1302	2403
6750	2980	2215	227.5	181.8	782	1603	12000	4735	3685	70.0	54.3	1328	2443
7000	3065	2285	220.0	175.7	808	1643	12250	4820	3755	62.5	48.2	1354	2483
7250	3150	2355	212.5	169.6	834	1683	12500	4900	3825	55.0	42.1	1380	2523
7500	3230	2425	205.0	163.6	860	1723	12750	4985	3895	47.5	36.1	1406	2563
7750	3315	2495	197.5	157.5	886	1763	13000	5070	3965	40.0	30.0	1432	2603
8000	3400	2565	190.0	151.4	912	1803							

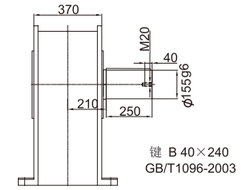
150R
单层箱体
Single magazine

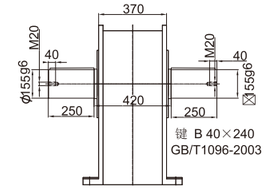


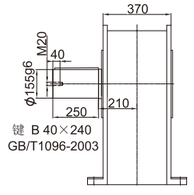






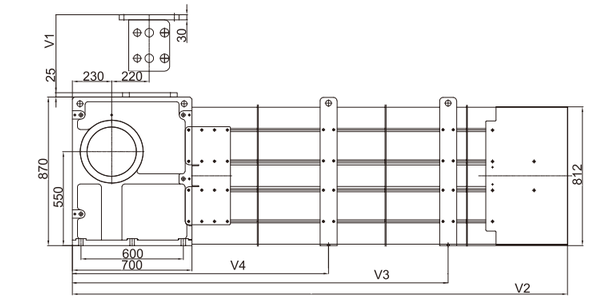


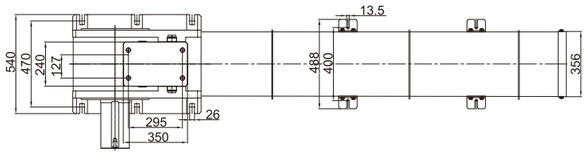


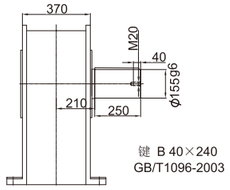


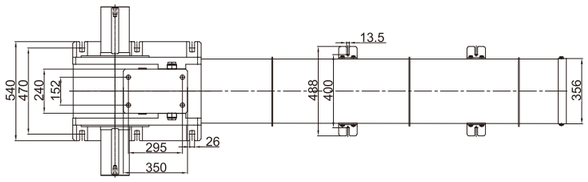
行程 Stroke V1(mm)	总长 Length V2(mm)	地脚 Anchor V3(mm)	地脚 Anchor V4(mm)	静载荷 Sta.load (KN)	动载荷 Dyn.load (KN)	链条自重 Chain weight (Kg)	设备自重 Total weight (Kg)	行程 Stroke V1(mm)	总长 Length V2(mm)	地脚 Anchor V3(mm)	地脚 Anchor V4(mm)	静载荷 Sta.load (KN)	动载荷 Dyn.load (KN)	链条自重 Chain weight (Kg)	设备自重 Total weight (Kg)
1200	1800	1200				280	935	4500	5100	4500	2600			720	1650
1500	2100	1500				320	1000	4800	5400	4800	2750			760	1715
1800	2400	1800				360	1065	5100	5700	5100	2900			800	1780
2100	2700	2100				400	1130	5400	6000	5400	3050			840	1845
2400	3000	2400				440	1195	5700	6300	5700	3200			880	1910
2700	3300	2700		300.0	250.0	480	1260	6000	6600	6000	3350	300.0	250.0	920	1975
3000	3600	3000				520	1325	6300	6900	6300	3500			960	2040
3300	3900	3300				560	1390	6600	7200	6600	3650			1000	2105
3600	4200	3600				600	1455	6900	7500	6900	3800			1040	2170
3900	4500	3900				640	1520	7200	7800	7200	3950			1080	2235
4200	4800	4200				680	1585	7500	8100	7500	4100			1120	2300

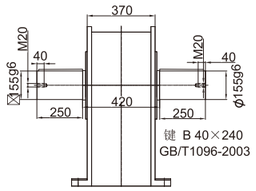
150R
双层箱体
Double magazine

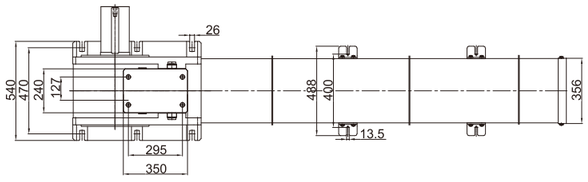












行程 Stroke V1(mm)	总长 Length V2(mm)	地脚 Anchor V3(mm)	地脚 Anchor V4(mm)	静载荷 Sta.load (KN)	动载荷 Dyn.load (KN)	链条自重 Chain weight (Kg)	设备自重 Total weight (Kg)
1800	1700	1100		300.0	250.0	360	1067
2100	1850	1250				400	1127
2400	2000	1400				440	1187
2700	2150	1550				480	1247
3000	2300	1700				520	1307
3300	2450	1850				560	1367
3600	2600	2000				600	1427
3900	2750	2150				640	1487
4200	2900	2300				680	1547
4500	3050	2450				720	1607
4800	3200	2600				760	1667
5100	3350	2750				800	1727
5400	3500	2900				840	1787
5700	3650	3050				880	1847
6000	3800	3200				920	1907
6300	3950	3350				960	1967
6600	4100	3500				1000	2027
6900	4250	3650				1040	2087
7200	4400	3800				1080	2147
7500	4550	3950				1120	2207
7800	4700	4100		291.7	242.9	1160	2267
8100	4850	4250		283.4	235.9	1200	2327
8400	5000	4400		275.2	228.8	1240	2387
8700	5150	4550	2625	266.9	221.7	1280	2447
9000	5300	4700	2700	258.6	214.7	1320	2507

行程 Stroke V1(mm)	总长 Length V2(mm)	地脚 Anchor V3(mm)	地脚 Anchor V4(mm)	静载荷 Sta.load (KN)	动载荷 Dyn.load (KN)	链条自重 Chain weight (Kg)	设备自重 Total weight (Kg)
9300	5450	4850	2775	250.3	207.6	1360	2567
9600	5600	5000	2850	242.0	200.5	1400	2627
9900	5750	5150	2925	233.8	193.5	1440	2687
10200	5900	5300	3000	225.5	186.4	1480	2747
10500	6050	5450	3075	217.2	179.3	1520	2807
10800	6200	5600	3150	208.9	172.3	1560	2867
11100	6350	5750	3225	200.7	165.2	1600	2927
11400	6500	5900	3300	192.4	158.1	1640	2987
11700	6650	6050	3375	184.1	151.0	1680	3047
12000	6800	6200	3450	175.8	144.0	1720	3107
12300	6950	6350	3525	167.6	136.9	1760	3167
12600	7100	6500	3600	159.3	129.8	1800	3227
12900	7250	6650	3675	151.0	122.8	1840	3287
13200	7400	6800	3750	142.7	115.7	1880	3347
13500	7550	6950	3825	134.5	108.6	1920	3407
13800	7700	7100	3900	126.2	101.6	1960	3467
14100	7850	7250	3975	117.9	94.5	2000	3527
14400	8000	7400	4050	109.6	87.4	2040	3587
14700	8150	7550	4125	101.4	80.3	2080	3647
15000	8300	7700	4200	93.1	73.3	2120	3707
15300	8450	7850	4275	84.8	66.2	2160	3767
15600	8600	8000	4350	76.5	59.1	2200	3827
15900	8750	8150	4425	68.3	52.1	2240	3887
16200	8900	8300	4500	60.0	45.0	2280	3947

*除上述常规型号外，我公司另有:
1) T型推拉型号
2) Z型自带导轨式举升链，在行程范围内载荷不变
3）A型 自锁式输送链（咬合链）

有关T型、Z型和A型，如有需求，请与本公司联系。

*In addition to the above conventional models, our company also has:
1) T-type push-pull model
2) Z type self-guide lifting chain whose load does not change within the stroke range
3) Type A self-locking zipping chain

For T-type, Z-type and A-type, please contact our company if you have any demand.

5 销齿链的应用提示/Application tips

销齿链升降台的限位设定提示/ Setting travel limits on link-chain platform limit

销齿链升降台的限位应在升降行程范围内设定，限位方式根据功能分为机械限位和软限位；为设备运行安全考虑，在软限位的基础上加设机械限位。

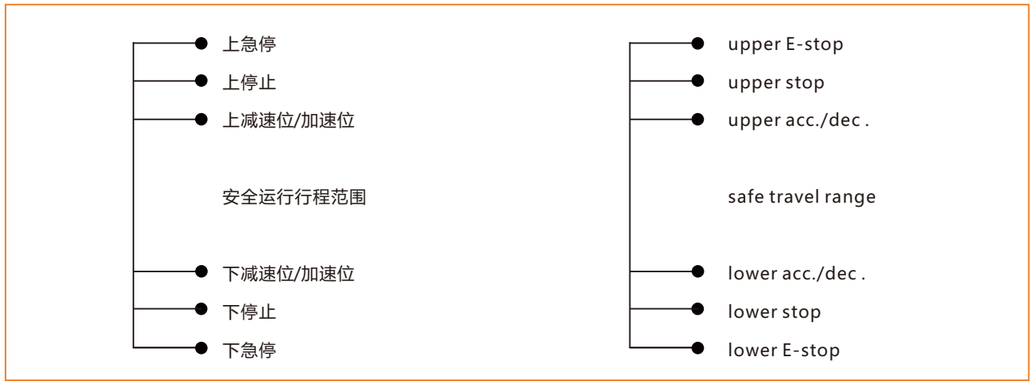
整个行程范围内，软限位位置在内，机械限位在外。若遇到断电系统数据丢失导致软限位失灵时机械限位依然起到安全停位作用。在设定软限位的基础上，机械限位可设定停止、急停等多点位。机械限位的停止限位，可设定多级限位点增加安全性。机械限位和软限位上都可以设定减速位或加速位，但软限位和机械限位组合使用时不宜同时重复设定减速位/加速位、急停功能。

The travel limit of link chain platform lift should be set within the range of stroke. There are mechanical limit and soft limit; for safe operation, mechanical limits are added on the basis of soft limits .

In the entire stroke range, soft limits comes first , followed mechanical limits. In case of system data loss due to power failure, the mechanical limits still play the role of a safe stop when the soft limit fails. The mechanical limits can be set to stop and emergency stop to increase safety. The deceleration/acceleration position can be set either on the mechanical limit or the soft limit, but it is not appropriate to set them on the mechanical limit and soft limit at the same time.

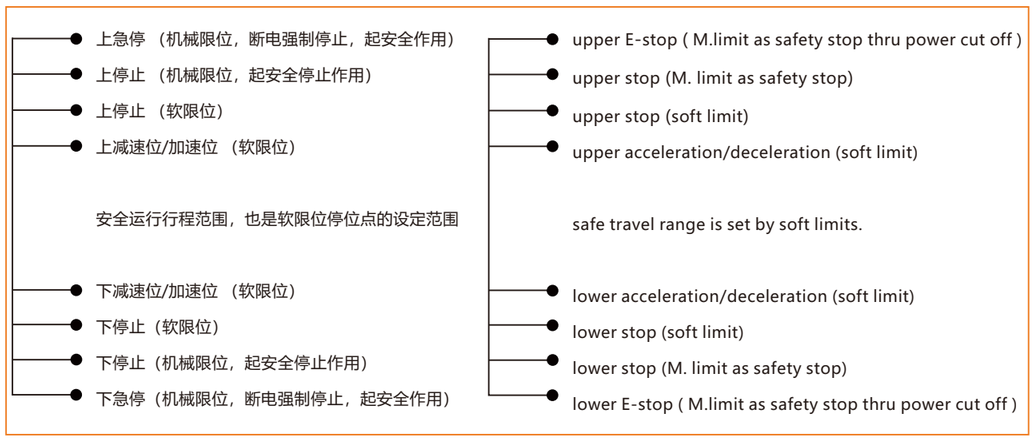
本章针对机械限位的设定方式，具体提示如下：

Mechanical limits set as follows:



a.仅设置机械限位时

a. when mechanical limits only



b. 机械限位和软限位组合设定时

b. combination of mechanical/soft limits

常用机械限位种类/Common mechanical limit devices

- 凸轮限位开关/Cam limit switch
- 触碰式限位开关/Contact limit switch
- 近接传感器/Proximity sensor

上述三种限位产品的精确度和灵敏度都很高，但根据固定方式和连接方式，稳固性和准确性有所不同。触碰式限位开关和近接传感器，都需要安装支架，并固定在升降设备的结构上。升降设备长时间运行所带来的震动会导致固定螺栓的松动，从而发生限位点的变化，或者发生传感距离的变化，降低安全性。凸轮限位开关是需要安装在销齿链或减速机的输出轴端，连接轴的方式固定，与传动设备同步转动。提高了稳定性、准确性、安全性，并且可随意增加限位触点。

The above three limit products have high precision and sensitivity, but the stability and accuracy are different according to the fixing and connection method. Both the contact limit switch and the proximity sensor need to be installed with brackets and fixed on the structure of the lifting equipment. The vibration caused by the long-term operation of the lifting equipment will cause the loosening of the fixing bolts, resulting in the change of the limit point or the change of the sensing distance, which reduces the safety. The cam limit switch needs to be installed on the output shaft end of link chain or the reducer, the way of connecting the shaft is fixed, and it rotates synchronously with the transmission equipment. The stability, accuracy and safety are improved, and limit contacts can be added at will.

凸轮限位开关/Geared cam limit switch

限位接点数有4/6/8接点。安装在销齿链或一级减速机的输出轴上。

Limit contacts option: 4/6/8. Mounted on the output shaft of link chain or the primary reducer.

***有关该产品信息，详见后文“旋转式凸轮限位开关”一章**

***see the chapter “Geared Cam Limit Switch” for more information**

伊特ELS系列旋转式凸轮限位开关
Evo-Tech ELS series rotary geared cam limit switch

与销齿链连接速比计算方法：

凸轮限位速比 ≥ 行程÷销齿链每转上升高度(详见第XX页：**销齿举升链标准型号基本参数**)
如：行程1500mm，销齿链型号为35R,每转上升高度为210mm,
则1500mm÷210≈7.14, 根据触点数的需求, 在选型表里应选择11，触点数根据需求选择4/6/8

Speed ratio calculation when mounted on link chain:

Cam limit switch’ s speed ratio ≥ stroke ÷ chain travel distance per shaft revolution . (see page XX for details: basic parameters of standard model of pin tooth lift chain)
For example: for stroke of 1500mm, and 35R model whose travel distance per revolution is 210mm.
Then 1500mm÷210≈7.14, so speed ratio should be 11, and the number of contacts can be selected as 4/6/8 based on needs.

安全制动及锁紧、防冲、超重装置的提示 Tips for safe braking and locking, over stroke and over loading

为提高设备制动的安全性，通常采用以下措施：

1）制动装置有圆心制动器、液压制动器等。为增加安全性，在升降台单元内采用双制动电机、单制动电机+液压制动器、2台液压制动器等方式。

2）自锁装置一般采用涡轮蜗杆减速机、手动或电动插销、自锁导轨及导靴。

3）为防止设备冲出行程范围而造成的安全隐患，设置防冲立杆。

4）为防止升降设备超重而造成的安全隐患，设置超载传感器。

销齿链传动设备自身不带制动及锁紧、防冲、超重装置，需要外部增设相应装置提高安全性。但伊特销齿链产品设计时已留出可装安全装置的位置，如：

1）每节链板上都有定位插销孔，在遇到维修工作或设备定位时，可手动或电动插销装置插销锁定，增加安全性。

2）在销齿链顶部连接板上设置超载传感器，防止超载运行。

In order to improve the braking safety, the following measures are usually adopted:

1. Braking devices include disc brakes, hydraulic brakes, etc. In order to increase safety, 1) motors with double brakes, 2) single-brake motor + hydraulic brake, 3) 2 hydraulic brakes are used in the lifting platform.

2. The self-locking device generally adopts a worm gear reducer, a manual or electric bolt, a self-locking guide rail/guide shoe.

3. To prevent equipment rushing out of stroke range, an anti-shock pole is set.

4. To prevent over loading, an overload sensor can be mounted.

The link chain itself does not have braking/locking/over traveling/over loading functions,so it needs extra safety devices when necessary. Therefore, Evo-Tech link chain is designed to reserve the places for mounting safety devices.

For example: 1) There are latching holes on each chain plate. When the equipment needs to be stopped at a certain position in maintenance work or other situations, it can be locked by manual or electric latch to increase safety. 2) Set an overload sensor on the top connection plate of link chain to prevent overloading.

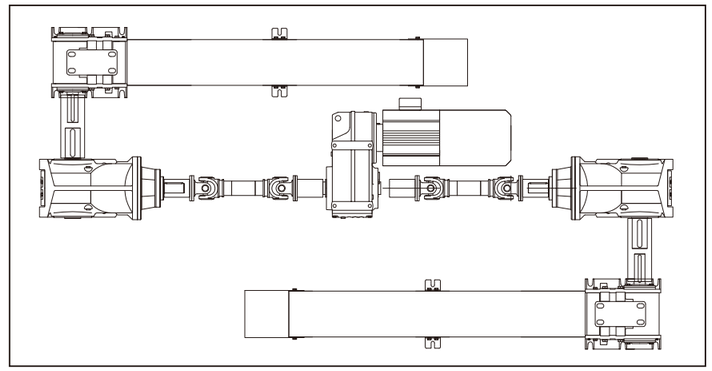
销齿链传动方式的升降台机械常用组件 /Common components for link-chain platform lift

1. 销齿链
2. 电机，如：三相异步电机、伺服电机
3. 减速机，如：齿轮箱、行星减速机
4. 制动器
5. 换向器
6. 联轴器
7. 万向轴
8. 半联轴器
9. T/R轴承座
10. 导向: 如 电梯导轨+导靴、剪刀撑导向+导靴
11. 台体结构
12. 驱动底座

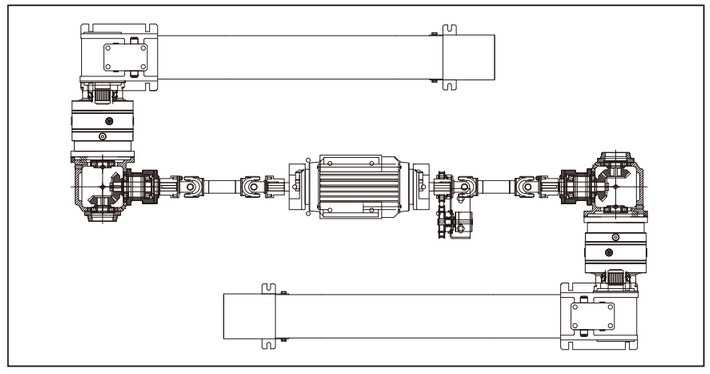
1. Link chain
2. Motors, such as: three-phase asynchronous motors, servo motors
3. Reducer, such as: gearbox, planetary reducer
4. Brake
5. Bevel gear
6. Coupling
7. Cardan shaft
8. Half coupling
9. T/R bearing block
10. Guide: such as elevator guide rail/guide shoe, scissors guide/guide shoe
11. Platform structure

销齿举升链传动方式的升降台方案提示/Plan scheme examples of link-chain platform lift

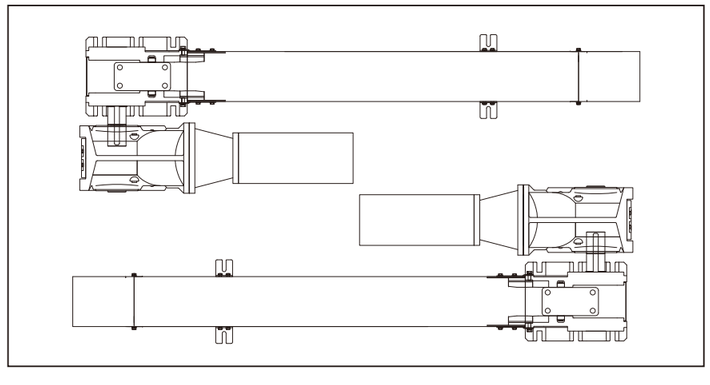
◆ 2台销齿举升链+2斜齿轮减速器+双制动减速电机
2 link chains + 2 helical gear reducers+dual-brake motor gearbox



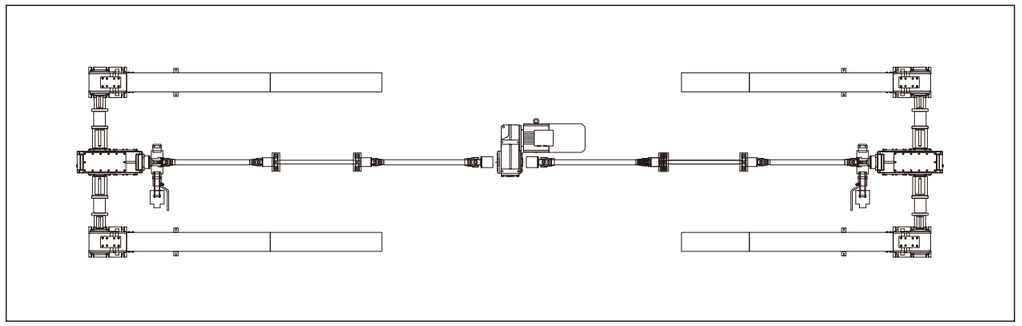
◆ 2台销齿举升链+2行星减速机+双制动电机
2 link chains +2 planetary gearboxes + dual-brake motor



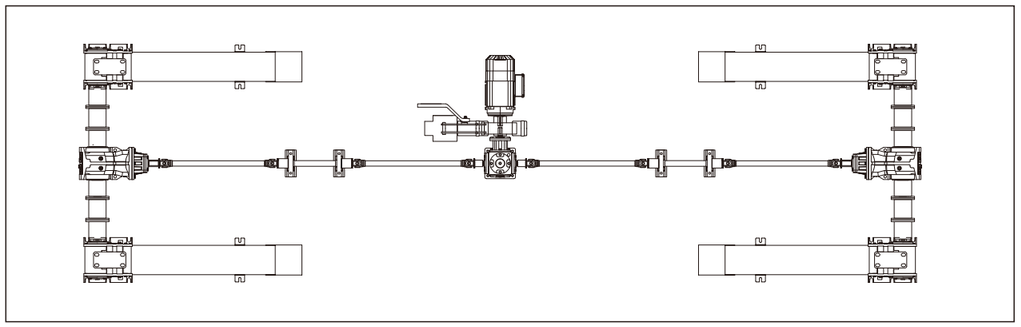
◆ 2台销齿举升链+2台斜齿轮减速机+2台伺服电机
2 link chains + 2 helical gear reducers+2 servo motors



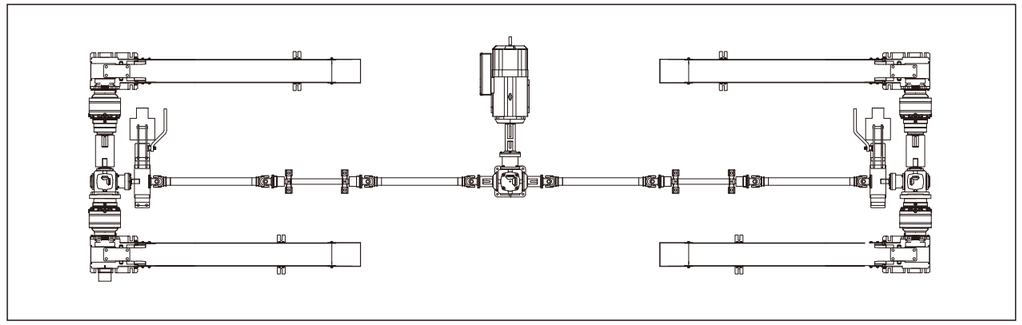
◆ 4台销齿举升链+2斜齿轮减速器+2台鼓式制动器+双制动减速电机
4 link chains + 2 helical gear reducers+2 drum brakes+dual-brake motor gearbox



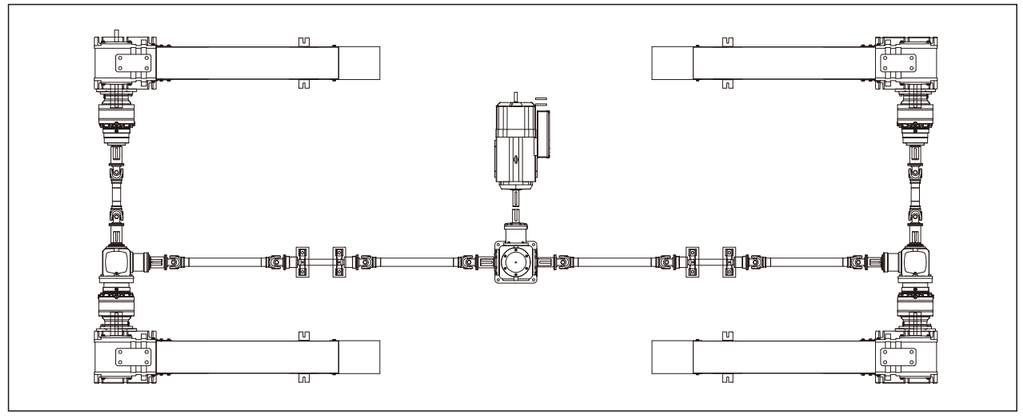
◆ 4台销齿举升链+2斜齿轮减速器+1台鼓式制动器+1台换向器+单制动电机
4 link chains + 2 helical gear reducers+1 drum brake+1 bevel gear +single-brake motor



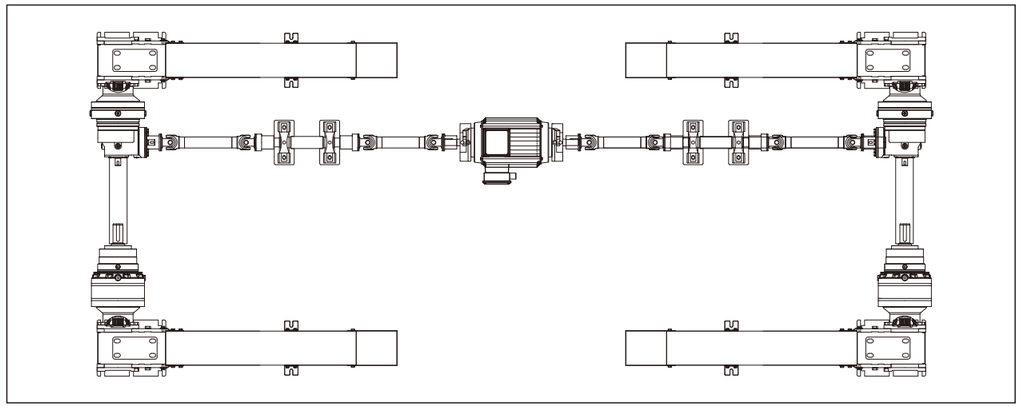
◆ 4台销齿举升链+4台行星减速机+2台鼓式制动器+1台换向器+单制动电机
4 link chains + 4 planetary gearboxes + 2 drum brakes+1 bevel gear+single-brake motor



◆ 4台销齿举升链+4台行星减速机+1台换向器+双制动电机
4 link chains + 4 planetary gearboxes + 1 bevel gear+dual-brake motor



◆ 4台销齿举升链+4台行星减速机+双制动电机
4 link chains + 4 planetary gearboxes +dual-brake motor



6　使用手册/User’s manual

概述/General

销齿提升链的安装需参照本手册内容。

本设备的实际应用需参照伊特所提供的使用信息。如使用者未按照所示信息，导致设备故障/损坏等情形的，本公司有权不履行对相应设备的保质条款。

因本设备的具体安装需求具有非确定性，本设备的包装中不含安装紧固件。相应具体信息，详见本手册图表内容。本设备链条已经过油脂润滑，油脂润滑期限为1,000个升降周期或3个月（先到原则），具体信息详见本手册“维护信息”部分。

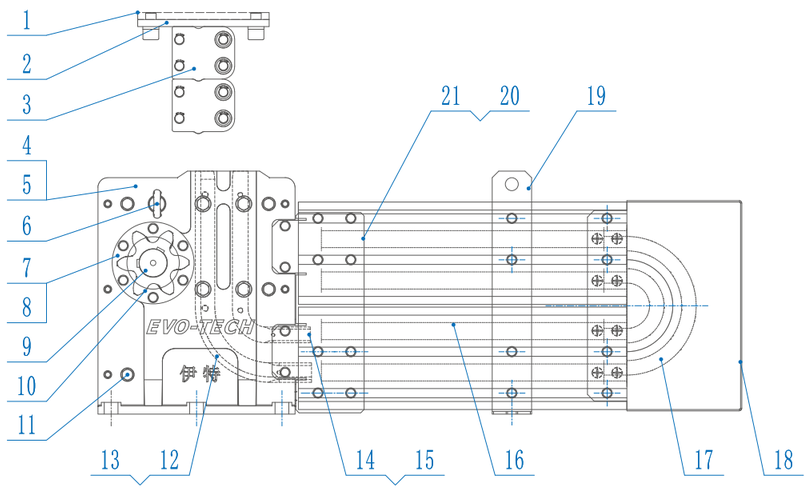
如设备及其安装过程中出现任何异常现象，需在设备调试前通知本公司。设备的商标、改装及最终解释权归本公司所有。

Please refer to this brochure for the installation and operation of the equipment, the otherwise consequences such as equipment failure or damage may negate the company’s warranty obligation.

Mounting bolts are not included in the packaging of this equipment due to various installation methods on sites. This brochure has included the bolt specification. The chain part has been lubricated before leaving the factory. The lubrication interval is 1000 lifting cycles or 3 months(whichever comes first). Detailed information is seen .

For any abnormalities during installation, please contact us before commissioning. The trademark, modification and final interpretation rights of the equipment belong to the company.

6.1 设备结构简介/Link Chain Composition



1. 过渡连接板
2. 负载连接板
3. 链条组件
4. 传动箱左立板
5. 传动箱右立板
6. 吊环螺栓
7. 闷盖
8. 透盖
9 . 传动轴
10. 链轮
11. 传动箱连接轴
12. 大导轨-左
13. 大导轨-右
14. 小导轨-左
15. 小导轨-右
16. 导向条
17. 转弯导轨
18. 尾箱
19. 地脚板
20. 箱体连接板
21. 箱体连接板-右

1. link plate
2. top plate
3. chain element
4. L. drive house plate
5. R. drive house plate
6. Lifting ring
7. dead cap
8. open cap
9 . shaft
10. sprocket
11. drive house pin
12. L. outer guide
13. R. outer guide
14. L. inner guide
15. R. inner guide
16. guide bars
17. turn guide
18. magazine end
19. anchor plate
20. L. connection plate
21. R. connection plate

6.2 设备包装说明/Packing description

a 包装材质/packing materials

国内：定制的木箱包装或蜂窝纸箱
国外：木箱包装，材质要求：免检卡板、熏蒸卡板、免检木箱、熏蒸木箱、原木等。不允许有腐朽、贯通裂纹、夹皮、虫眼、霉变、钝棱等缺陷。

Domestic: Customized wooden box or honeycomb carton
Overseas: wooden box, material requirements: inspection-free pallets, fumigation pallets, inspection-free wooden boxes, fumigation wooden boxes, logs, etc. Defects such as decay, penetrating cracks, bark pocket, worm holes, mildew, wane are not allowed.

b 包装方式/packing detail

销齿举升链的默认包装方式如下（合同另行规定除外）：

- 包装箱内部尺寸必须大于设备产品尺寸，单边至少留有50mm以上的安全距离，高度至少留有100mm的安全间隙。
- 使用高缓冲的海绵板等材料对设备易碎、易划伤部位进行防撞保护。
- 在包装箱内包装时，采用高强度纤维带、捆绑带、木条板等将设备牢固固定在托盘上，避免因运输颠簸而发生位移，降低碰撞几率。

The default packaging is as follows (unless otherwise specified in the contract):

- The internal size of the packaging box must be larger than the size of the equipment, with a safety distance of at least 50mm on four sides and at least 100mm on top.
- Use materials such as high-buffering sponge board to protect the fragile and easily scratched parts of the equipment from collision.
- Use high-strength fiber tapes, binding tapes, wooden slats, etc. to firmly fix the equipment on the pallet to avoid displacement and reduce the chance of collision due to bumps in transportation.

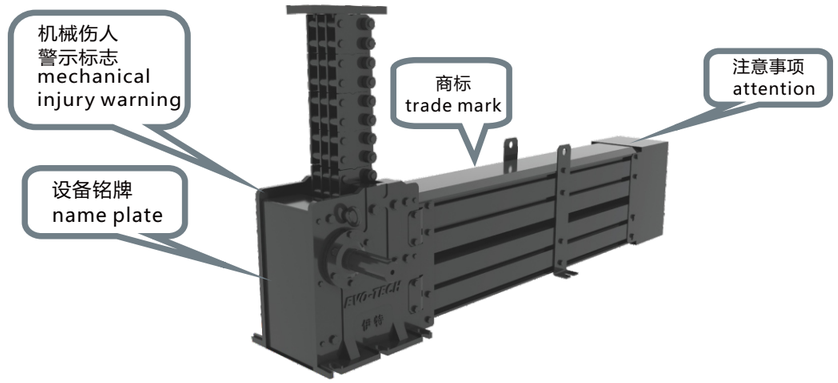
c 包装箱标签/packing labels

◆ 国内标签
Domestic market lables

◆ 国外标签
Foreign lables

d 产品标签
Product lables

国内供货包装标签采用中文，国外供货包装标签采用英文。
Lables with Chinese are for domestic delivery and lables with English are for overseas delivery.



（1）设备铭牌/name plate

伊特 EVO-TECH 销齿举升链
型号规格：XCL__/__-__/__
设备编号：XCL-__-__/__
生产日期：___年___月
河北伊特机械设备制造有限公司
地址：石家庄元氏经济开发区伊特大道1号TEL: +86-311 86106496

伊特 EVO-TECH LINK CHAIN
Model No.: XCL__/__-__/__
Equip. No.: XCL-__-__/__
MFD : _____
EVO-TECH MACHINERY CO.,LTD
ADD. No. 1 Evo-Tech Road, Yuanshi, Shijiazhuang TEL: +86-311 86106496

（2）机械伤人警示标志/mechanical injury warning

（3）商标/trade mark

伊特 Evo-Tech

(4) 注意事项/attention

注意事项：
1. 起吊时，吊点数不得少于四处，且严禁翻转、倒置、磕碰等；
2. 安装前，严格基础检查，必须达到使用要求；
3. 安装中，严格检查并调整设备的水平度，垂直度和扭转角度；
4. 安装中，严谨异物进入设备；
5. 安装厚，清理链条运行所处空间障碍等，严禁链条受拉；
6. 安装前请详细阅读说明书

Precautions:
1. When lifting, the number of lifting points shall not be less than four, and flipping, inversion, bumping, etc. are strictly prohibited;
2. Before installation, strict basic inspection must meet the requirements for use;
3. During installation, strictly check and adjust the levelness, verticality and twist angle of the equipment;
4. During installation, strictly prevent foreign matter from entering the equipment;
5. The installation is thick, clean up the obstacles in the space where the chain runs, etc., and the chain is strictly prohibited from being pulled;
6. Please read the manual carefully before installation

(5) 设备出厂随附资料/documents with equipment

i. 出厂检测报告；
ii. 合格证；
iii. 使用手册（设备说明、安装指南、维护指南、问题与解答、包装说明等内容）

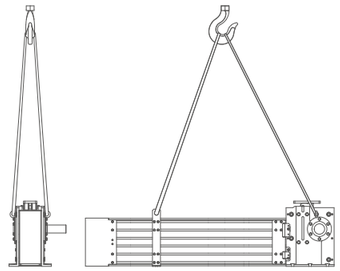
i. factory inspection report;
ii. certificates
iii. brochure (equipment description, installation guide, maintenance guide, questions and answers, packaging instructions, etc.)

6.3 设备安装指南

安装步骤/Installation steps

(1). 拆除包装及吊装搬运/Unloading & lifting

销齿链设备由木板进行包装，取出该设备需要参照以下简图：
The link chain is packaged in wood box and needs to be handled in accordance with the sketch below:



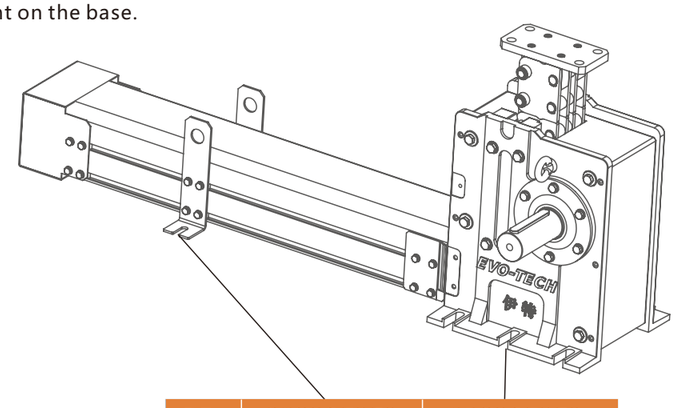
注意：

- 拆解包装过程中，请认真检查是否存在影响设备的因素（如雨水等）；
- 起吊设备需使用指定吊挂点
- 起重吊装时应注意四点平衡起吊，严禁两点起吊。
- 发货前对设备已进行油脂润滑处理；
- 未经过同意不允许拆卸链条，若需要拆卸，请将链条置于干净的平面上。

- In the process of unpacking, please carefully check whether there are factors affecting the equipment (such as rain, etc.)
- Use designated lifting points
- Use four lifting points to reach balance, and two-point lifting is strictly prohibited;
- The equipment has been lubricated before shipment
- Chain removal is not permitted without consent. If disassembling is necessary, please contact our technical department.

(2). 设备就位 /Equipment in position

将设备水平放置在安装底板上
Put the equipment on the base.



型号	储链箱地角螺栓规格	传动箱地角螺栓规格
model	magazine bolts	drive house bolts

型号 Model	储链箱地脚螺栓规格 Magazine anchor bolts	驱动箱地脚螺栓规格 Drive house anchor bolts
30D	2-R4.5(M8)	4-R5.5(M10)
35E	2-R5(M8)	4-R5.5(M10)
35R-S	2-R5(M8)	4-R5.5(M10)
35R-D/T	2-R4(M6)	4-R5.5(M10)
40S	2-R5.5(M10)	4-R5.5(M10)
40R	2-R6.75(M12)	6-R9(M16)
60R	2-R6.75(M12)	6-R9(M16)
80R	2-R6.75(M12)	6-R9(M16)
100A	2-R6.75(M12)	6-R9(M16)
100R	2-R6.75(M12)	6-R11(M16)
125R	2-R6.75(M12)	6-R11(M20)
150R	2-R6.75(M12)	6-R13(M24)

注意：

- 底板水平状态；
- 设备安装中需用垫片调节至符合“设备定位公差”要求；
- 设备安装紧固件见图中表格内容；
- 紧固件安装完毕后，请使用粘合剂或同类型密封剂进行防松密封。

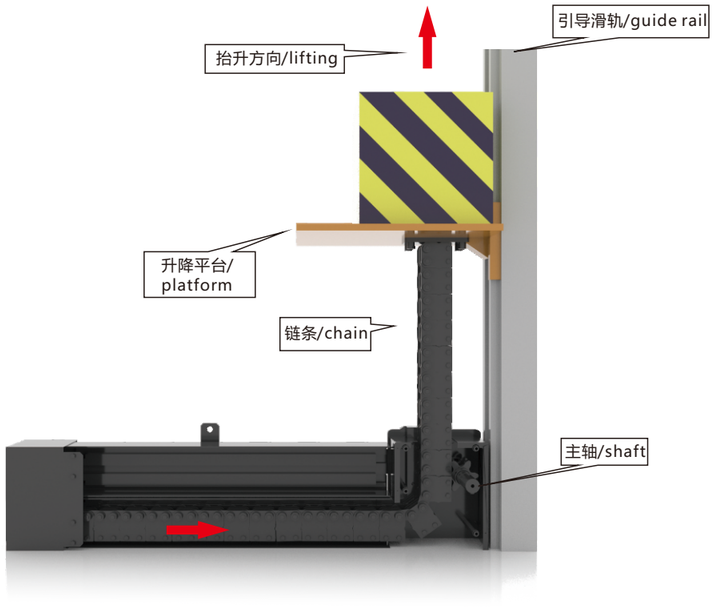
Attention:

- The base must be perfectly level.
- Shimming the equipment to comply with alignment tolerances which follow.
- Using the bolts above.
- Apply adhesive or other similar securing medium for fixing.

(3). 安装要点/key points for installation

- 为确保设备运行中的稳定性，引导滑轨的高度（长度）需
- 完全覆盖链条的极限上升高度；
- 升降平台需与链条呈相对垂直，并且应确保两者之间的连接牢固性；
- 确保驱动设备与地面的连接牢固性，同时驱动设备需与移动平台呈相对水平、与引导滑轨呈相对垂直；
  确保主动链条呈绝对垂直状态，从动链条呈绝对水平状态。

- The guide must be cover the full stroke during link chain lifting.
- The platform must be perpendicular and fixed rigidly to the chain column.
- The drive house must be fixed rigidly to the base/floor, parallel to the platform and perpendicular to the load guide system.
- The chain column must be perfectly vertical to the floor during lifting.

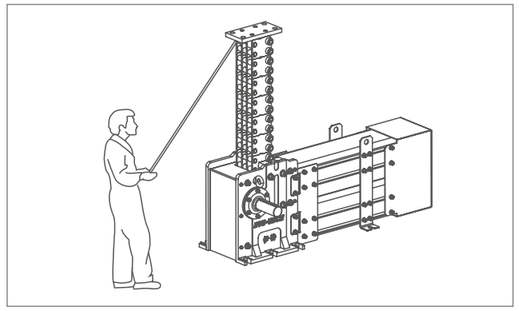


(4). 设备安装/Installation

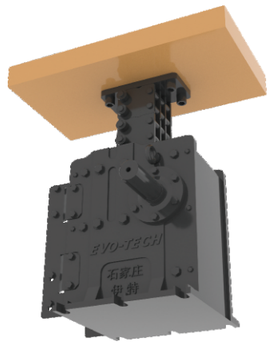
连接地基紧固件/anchor on the ground

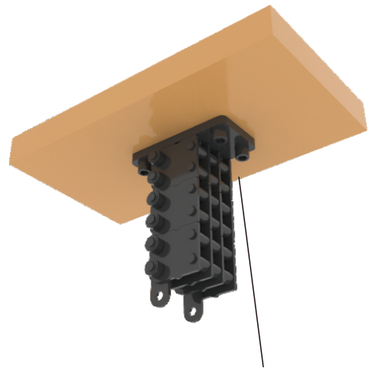
按照要求使用紧固件把设备紧固在安装地基上，再将链条与升降台连接之前，可以用一根绳子将顶端链条拴住，
以预防链条坍塌。当连接顶板与升降台连接在一起后，可以去掉绳子。

Use fasteners to fasten the equipment on the installation foundation as required, and before connecting the chain to the lifting platform, you can use a rope to tie the top chain,
to prevent the chain from collapsing. After connecting the top plate and the lifting platform together, the rope can be removed.



顶升设备的安装/Fix onto the platform





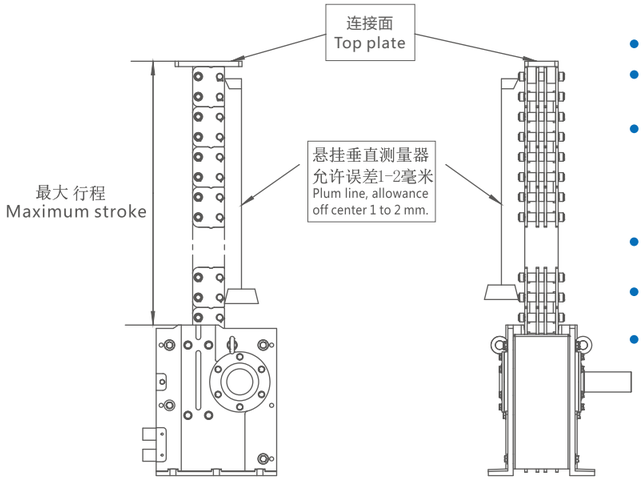
注意/Attention

- 请于固定前检查链条的“垂直定位公差”；
- 平面底部连接要牢固；
- 不得焊接固定；
- 紧固件安装完毕后，请使用粘合剂或同类型密封剂进行防松密封；
- 如需使用螺母，请使用自锁螺母。
- Please check the "vertical positioning tolerance" of the chain before fixing;
- The flat bottom connection should be firm;
- Do not weld and fix;
- After the fasteners are installed, use an adhesive or equivalent sealant for a loose seal;

型号 Model	连接螺栓规格 Top plate bolt
30D	4-ø9（M8）
35E	4-ø9（M8）
35R	4-ø9（M8）
40S	4-ø13（M12）
40R	4-ø18（M16）
60R	4-ø18（M16）
80R	4-ø22（M20）
100A	4-ø22（M20）
100R	4-ø22（M20）
125R	4-ø22（M20）
150R	4-ø26（M24）

(5). 设备定位误差/Installation tolerance control

a 链条纵向校对/vertical control of the chain



注意/Attention

- 请先完成上图中的垂直校对，再固定链条与升降面；
  校对完成后，请将链条用薄膜进行保护，防止有异物落入设备内部；
  试运行前，务必将保护薄膜取下。

- Vertical control should be made before fixing the chain column to the platform.
- After control, protect the column from ingress of foreign bodies using plastic film.
- Remove the film before commissioning.

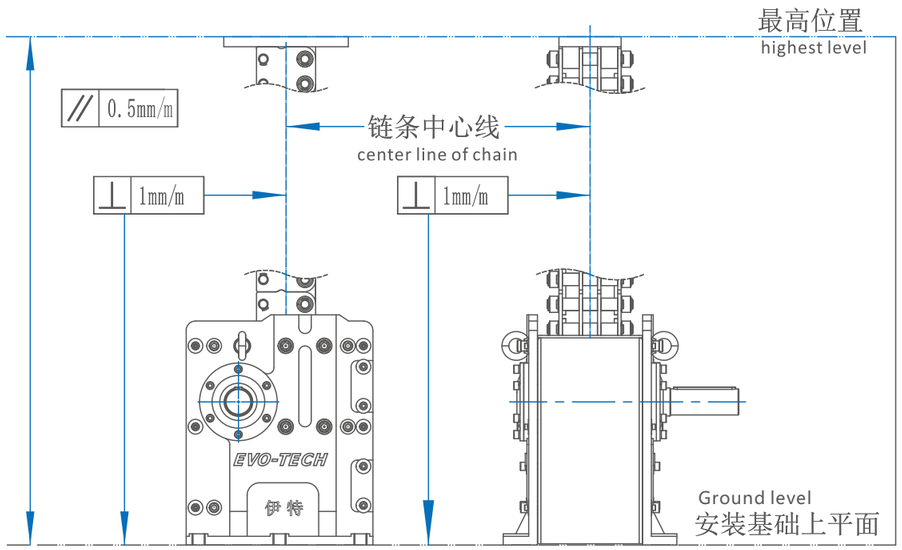
b 平行与垂直公差/Parallelism and perpendicular positioning

严格遵守以下定位公差：

- 安装底面与最高水平位之间的平行公差最大值为0.5毫米；
- 安装底面与链条中线之间的垂直公差为1毫米/米。

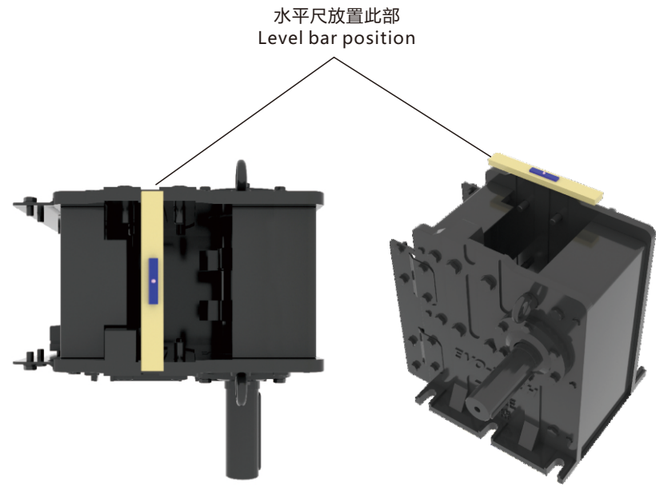
Strictly follow the following positioning tolerances

- Parallelism between the ground and the highest level 0.5mm max.
- Perpendicular position between the ground and the the center line of the chain 1mm/m.



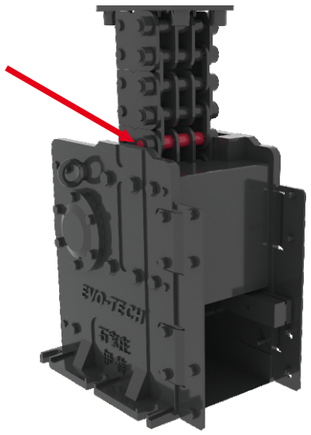
c 位置/Level bar control

使用水平尺测量设备驱动壳的安置情况。
Using level bar to control the position



d 链条顶升高度限制/Chain rising height limit

如下图所示，当红色标记出现时，链条达到最大顶升高度，请立即停止顶升作业，否则将损坏链条与驱动部件。
When the red pin emerges, it indicates the chain is reaching the maximum stroke.
Stop further lifting immediately or it may damage the chain and driving components.



6.4 设备运行状态说明/Maintenance

传动原理/About transmission

销齿举升链采用销齿传动原理，由链轮驱动链条实现刚性链条的升降，链轮的齿与刚性链小轴的接触和分离的过程对链条运行的平稳性产生扰动，造成刚性链有上下轻微抖动现象，该现象在小型号（XCL40以下）上相对明显，是销齿传动的固有特性。

The link chain adopts the principle of the sprocket driving the chain to realize the lifting of the rigid chain, The process of contact and separation between the teeth of the sprocket and the pins of the rigid chain disturbs the stability of the chain, causing the rigid chain to vibrate slightly up and down. This phenomenon is relatively obvious on small models (below XCL40), and it is inherent characteristics.

运行噪声/Running noise

销齿举升链运行中会有节奏的滚轮和轨道接触噪声，随着负载和速度的增加也会有链轮和链条接触的噪声，负载和速度越大，噪声越大，噪声的频率为链轮齿数/转。下降时由于滚轮与轨道有接触过程，比上升时噪声大。销齿链出厂测试噪声≤53dB. 工作时出现有节奏沉闷的噪声是不正常现象，此时一般是销齿举升链安装不正造成，需要将销齿链调正后在工作，否则会影响销齿链的寿命。

There will be rhythmic roller-and-track contact noise during the operation of the link chain. As the load and speed increase, there will also be contact noise between the sprocket and the chain. The greater the load and speed, the greater the noise, and the frequency of the noise is the chain gear teeth/rev. Due to the contact process between the roller and the track when descending, the noise is louder than when ascending. The factory test noise of the link chain is ≤53dB. It is abnormal to have rhythmic and dull noise during work. At this time, it is usually caused by improper installation of the link chain. It is necessary to adjust the link chain before working, otherwise it will affect the chain life.

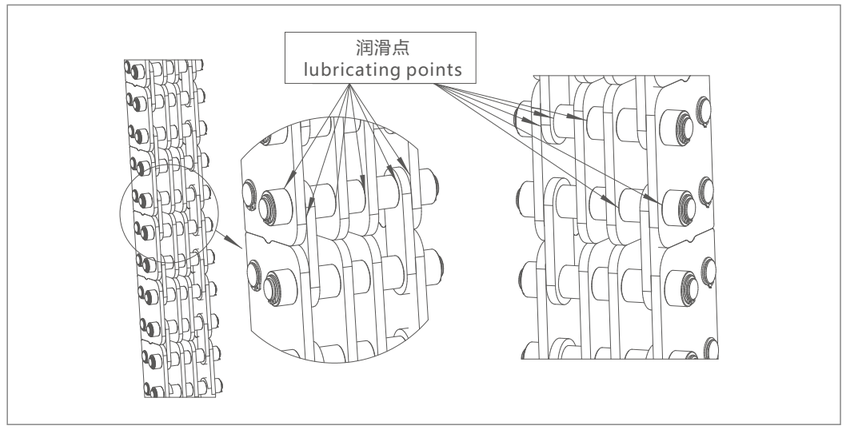
6.5 设备维护指南/Maintenance

维护前须知/Notice before maintenance

- 维护操作开始前,请确保安装完毕,并且采取一切必要的安全措施。
- 设备链条需要进行润滑养护，但润滑工作无需对链条本身进行拆解；
- 设备链条交货前已进行过润滑处理，请确保设备安装过程中链条不被弄脏；
- 若在安装过程中链条受到污染，建议设备作业前再次进行润滑处理；
- 请确保设备工作环境的清洁度；
- 本设备链条需要进行定期的油脂润滑，润滑期限为1,000个工作周期或3个月（先到原则）。

- Prior to maintenance, make sure installation has been completed, and all necessary precautions have been in place;
- Lubrication of chain column does not require to disassemble work;
- The chain column has been lubricated before delivery, and protect the chain from contamination during installation;
- Should the chain be contaminated during installation, lubricate it again before running.
- Make sure the environment clean;
- Lubricate interval is 1000 lifting circles or 3 months(which ever comes first)

销齿链的维护/Link chain maintenance



- 润滑作业需覆盖全部主动链条部分；
- 润滑操作可采取喷洒或涂刷方式；
- 链条需要润滑的部分为链条板和滚轮；
- 在润滑滚轮时，将润滑剂涂抹于滚轮和链条板的缝隙，再转动滚轮。

- Lubrication should cover the full vertical section of the chain;
- Lubrication can be made through spray or brush;
- Both the plates and the rollers needs lubrication;
- Apply the lubricant on the location between the rollers and the plates; and rotate the rollers;

销齿链维护检测/Routine check

- 设备运行前后进行检查确保无杂物（焊接、磨削等）；
- 每3个月检测销齿链链条的垂直度是否符合要求。

- Make sure there is no ingress of foreign bodies before and after running;
- Control the vertical tolerance of the chain columns every 3 months.

销齿链润滑油/Link chain lubrication oil

RB 100链条油 粘度100 （不分品牌）

RB 100 chain lubricant oil，viscosity100 （no designated brand）

7 常见问题解答（FAQ）

Q&A形式记载从顾客收集的「常见问题」。

Q1	使用寿命是多长?
A1	可往返运行100万次。
Q2	是否可以任意停位?
A2	可任意停位，推荐使用伺服电机控制或三相电机加旋转编码器控制。
Q3	重复定位精度是多少?
A3	±0.2mm，本公司产品为钢性链条,精度决定于驱动电机。
Q4	每米举升允许偏差是多少?
A4	1mm/m，最大20mm/全程。
Q5	是否带有自锁功能?
A5	标准机型本身无自锁功能。驱动部使用带自锁功能的蜗轮减速机。请咨询本公司。
Q6	是否带有制动功能?
A6	标准机型无制动功能。驱动单元上需要液压制动器的方式制动。请咨询本公司。
Q7	销齿举升链能否短时间内频繁起动-停止，起动频率最大是多少?
A7	无特定要求。
Q8	多台销齿举升链联动运行时，需要注意哪些事项吗?
A8	需要注意控制的同步性及偏载量。
Q9	载荷表中标注最大行程是不是该型号可使用的最大行程?
A9	是，请咨询本公司。
Q10	是否有载荷表以外的行程?
A10	有，但有限制条件，请咨询本公司。
Q11	运行时的噪音值（dB）是多少?
A11	45-80dB(A)，与速度及箱体的层数有关。
Q12	是否可以用直流电机驱动?
A12	可以
Q13	在尺寸、行程等方面是否可以特殊定制?
A13	可以，请咨询本公司。
Q14	是否可以抗拉（提升/推拉）?
A14	举升链是抗压，15%的抗拉。有专门的抗拉型号，如：销齿推拉链，自锁式输送链。请咨询本公司。
Q15	是否具有立式销齿举升链?
A15	有，一种是立式箱体，另一种是自带导轨式，请咨询本公司。
Q16	箱体是否可以盘式缠绕?
A16	可以，请咨询本公司。
Q17	运行是否可以不用导向机构。
A17	垂直顶升必须用导向。请咨询本公司。
Q18	需要用什么类型的电机驱动?
A18	任何类型的电机都可以驱动。

Q19	连接减速机的安装位置 方向是否有要求?
A19	无特定的要求，请参考销齿举升链的输出轴的直径，请咨询本公司。
Q20	输出轴轴径是否可以定制?
A20	可以定制，但有一定的限制条件。请咨询本公司。
Q21	与减速机之间是否可以不用联轴器连接?
A21	可以，但对安装要求较高，并且有一定的限制条件。请咨询本公司。
Q22	输出轴上是否可以加编码器?
A22	可以，请咨询本公司。
Q23	输出轴上是否可以加旋转式限位开关?
A23	可以，请咨询本公司。
Q24	销齿举升链的顶部连接板是否可以加载荷传感器?
A24	可以，请咨询本公司。
Q25	单层/双层/三层箱体的区别?
A25	箱体的种类是根据销齿举升链设备的安装空间而定，箱体层次越高设备的长度越短，但销齿举升链的高度也会增高，因此需要综合考虑。请咨询本公司。
Q26	地脚螺栓位置是否可以调整?
A26	可以调整。请咨询本公司。
Q27	定制好的销齿举升链产品是否可以额外添加链条长度?
A27	可以，但有一定的限制条件，请咨询本公司。
Q28	超出指定行程销齿举升链会脱落吗?
A28	不会。
Q29	可否生产不锈钢材质的销齿举升链?
A29	可以，但有一定的限制条件，请咨询本公司。
Q30	需要什么类型的润滑剂?
A30	详见设备维护指南。
Q31	可否在室外使用?
A31	可以，但有一定的限制条件。请咨询本公司。
Q32	可否在寒冷环境中使用?
A32	可以，需要准确说明使用条件。请咨询本公司。
Q33	可否在高温环境中使用?
A33	可以，但有一定的限制条件，如:需要考虑轴承等部件的允许使用温度。请咨询本公司。
Q34	可否在潮湿环境中使用?
A34	可以。请咨询本公司。
Q35	可否在水湿环境中运行?
A35	可以，但材质要订制。请咨询本公司。
Q36	可否在粉尘环境中运行?
A36	可以。请咨询本公司。

Frequently Asked Questions about link chain (FAQ)

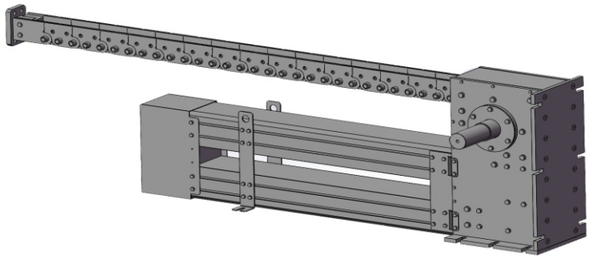
The following content are the FAQs collected from the clients.

Q1	What is the life span ?
A1	A million times of up-and-down motions.
Q2	Can the rigid chain stop at any position within its stroke ?
A2	Positive. We suggest to utilize servo motor or three-phase motor with rotary encoder.
Q3	How is the accuracy of repeated positioning ?
A3	±0.2mm,the positioning accuracy of the rigid chains is related to the motor gearbox.
Q4	What is the perpendicular positioning tolerance when the chain is lifted ?
A4	1mm/m, maximum 20mm for the whole stroke.
Q5	Does it have self-locking ?
A5	Standard models have no self-locking. A self-locking worm gear reducer works it out.
Q6	Does it have brake ?
A6	Standard models have no brake. Hydraulic brake can be added to the drive.
Q7	Can it start-stop frequently in a short time ? and what is the max. start-stop frequency ?
A7	There is no specific limit for rigid chains on this issue.
Q8	When multiple rigid chain lifts run in linkage, what needs to be cared??
A8	Need to care the synchronization between each other and the eccentric load。
Q9	Is the max. stroke in the load capacity diagram the max. value can be used of this model ?
A9	Yes, please contact us.
Q10	For one model, is there any extra stroke beyond the load capacity diagram ?
A10	Yes, but with restricted conditions, please contact us.
Q11	How is the noise(dB) during running?
A11	45-80dB(A), related to the speed and the magazine type.
Q12	Can it be driven by DC motor ?
A12	Positive.
Q13	Can the specification like size, stroke be customized?
A13	Yes, please contact us.
Q14	Can the rigid chain push and pull load?
A14	The "lift" chain raises load upward, and has15% pull capacity. Dedicated models: push -pull chain, zipper chain. Please consult us.
Q15	Do you have vertical magazine model ?
A15	Yes, we have other models with vertical magazine, please contact us.
Q16	Can the magazine come with spiral type ?
A16	Yes, please contact us.
Q17	Can the rigid chain run without guides ?。
A17	Guide is necessary for rigid chain lift. Please contact us for detail.
Q18	What type of motor can drive the chain ?
A18	There is no limit on motor type.

Q19	Any requirements about position or direction when assembling the gearbox on it ?
A19	No specific requirements. Please care the output shaft diameter. Please contact us.
Q20	Can the output shaft diameter be customized ?
A20	Within a reasonable range, yes. Please contact us.
Q21	Can the rigid chain be connected to the gearbox without coupling ?
A21	Yes, but with high installation standards and limited conditions. Please contact us.
Q22	Can an encoder be mounted on the output shaft ?
A22	Yes, please contact us for detail.
Q23	Can an rotary limit switch be mounted on the output shaft ?
A23	Yes, please contact us for detail.
Q24	Can an load cell be mounted on the attach plate at the end of the chain ?
A24	Yes, please contact us for detail.
Q25	What is the difference between single, double and triple magazine type ?
A25	Magazine type is selected based on the installation space; more layers means shorter length but larger basic height. Needs to consider all factors. Please contact us.
Q26	Can the anchor bolts be mounted in different location ?
A26	Yes. Please contact us for detail.
Q27	Can a finished rigid chain be extended with extra chain elements ?
A27	Yes, but with restricted conditions. Please contact us for detail.
Q28	Would the chain fall off from the magazine when reaching to its stroke limit ?
A28	Not possible.
Q29	Can be your rigid chain made of stainless steel ?
A29	Yes, but with restricted conditions. Please contact us for detail.
Q30	What kind of lubricant is needed for maintanence ?
A30	Please see the maintenance section in previous content.
Q31	Can the rigid chain be used outdoor ?
A31	Yes, but with restricted conditions. Please contact us for detail.
Q32	Can the rigid chain be used in cold environment ?
A32	Yes, please inform us of the specific conditions.
Q33	Can the rigid chain be used in high-temperature environment ?
A33	yes, but with restrictions such as the temperature scope for bearing. Please contact us.
Q34	Can the rigid chain be used in humid environment ?
A34	Yes, please inform us of the specific conditions.
Q35	Can the rigid chain be used in water environment ?
A35	Yes, but with special material. Please contact us for detail.
Q36	Can the rigid chain be used in dust environment ?
A36	Yes, please inform us of the specific conditions.

销齿推拉链
LINK CHAIN-PUSH PULL

型号描述/Model description



XCP [20T] / [R] [(X)] – [1000] / [S]

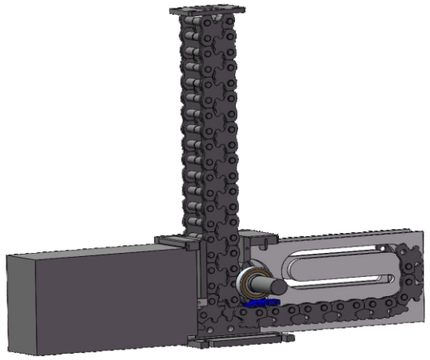
- 箱体类型: S为单层箱体；D为双层箱体；T为三层箱体
  Magazine layers: S for single layer; D for double layers, T for triple layers
- 行程，单位：mm
  Stroke, unit: mm
- 附加设备：X：旋转式凸轮限位开关；T:编码器
  Optional: X: geared cam limit switch; T: encoder
- L：左出轴；R:右出轴；L+R：双出轴
  L:left shaft; R: right shaft; L+R: dual shaft
- 规格/Model size：15T/20T/30T/40T/50T/60T/80T/100T/125T
- 产品类型/Product code:销齿推拉链

销齿推拉链标准型号基本参数
Link chain push-pull standard model basic parameters

技术参数	Technical Parameters	产品型号/Models				
		15T	20T	30T	40T	50T
额定载荷(kN)	Rated load(kN)	0.25	1	3	8.5	15
额定速度(mm/s)	Rated speed(mm/s)	300	300	300	300	300
链条节距（mm）	Chain pitch(mm)	15	20	30	40	50
链轮齿数	Sprocket teeth	6	6	6	9	9
链轮节圆半径（mm）	Chain pitch radius(mm)	15	20	30	58.5	73.1
每转行程（mm）	Travel/revolution(mm)	90	120	180	360	450
每节重量（kg）	Weight/chain block(kg)	0.03	0.1	0.3	0.77	1.43
最大使用长度(m)	Max. stroke(m)	5	13	20	30	35

技术参数	Technical Parameters	产品型号/Models				
		60T	80T	100T	125T	定制型号
额定载荷(kN)	Rated load(kN)	35	85	150	250	
额定速度(mm/s)	Rated speed(mm/s)	300	300	300	300	
链条节距（mm）	Chain pitch(mm)	60	80	100	125	
链轮齿数	Sprocket teeth	9	9	9	9	
链轮节圆半径（mm）	Chain pitch radius(mm)	87.7	117	146.2	182.7	
每转行程（mm）	Travel/revolution(mm)	540	720	900	1125	
每节重量（kg）	Weight/chain block(kg)	3.31	7.27	16.5	41.3	
最大使用长度(m)	Max. stroke(m)	60	90	80	65	

销齿咬合链
LINK CHAIN-ZIP



型号描述/Model description

XCZ [20AD] / [(X)] – [2000] / [S]

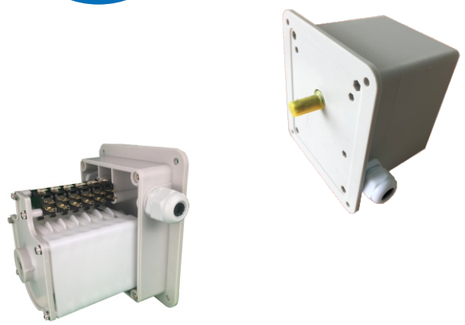
- 箱体类型: S为单层箱体；D为双层箱体；T为三层箱体
  Magazine layers: S for single layer; D for double layers, T for triple layers
- 行程，单位：mm
  Stroke, unit: mm
- 附加设备：X：旋转式凸轮限位开关；T:编码器
  Optional: X: geared cam limit switch; T: encoder
- 规格/Model size：08AD/15AD/20AD/30AD/40AD 60AD...
- 产品类型/Product code:销齿咬合链

自锁式输送链基本参数
Zip chain basic parameters

技术参数	Technical Parameters	产品型号/Models					
		08AD	15AD	20AD	30AD	40AD	60AD
抗压额定负载（kN）	Rated push load(kN)	0.5	1.5	3	15	30	60
最大载荷时行程(m)	Max.stroke/rated push load(m)	0.3	0.5	0.6	0.8	2	2
抗拉额定负载(kN)	Rated pull load(kN)	0.5	1.5	3	5	14	50
最大行程(m)	Max.stroke(m)	0.6	1	1.2	2	4	6
最大行程载荷(kN)	Push load at max.stroke(kN)	0.1	0.5	1	5	20	25
节距(mm)	Chain pitch(mm)	8	15	20	30	40	60
齿数	Sprocket teeth	6	6	6	6	6	6
每转行程(mm)	Stroke/revolution(mm)	48	90	120	180	240	360

旋转式凸轮限位装置
Rotary Geared Cam Limit Device

ELS-1 Series



1 功能用途/Function

行程限位装置的主要用途为/The rotary limit device is mainly used for:

1

用于机械设备运行（直线运行转化旋转）的安全限位
limit for moving machinery (convert linear motion into rotation)

2

测量或限制旋转设备转动的旋转圈数
measure or limit rotation of rotary equipment

3

可在输出轴上安装高精度的旋转编码器，准确测量行程或角度
rotary encoder can be installed on the output shaft to accurately measure travel or angle

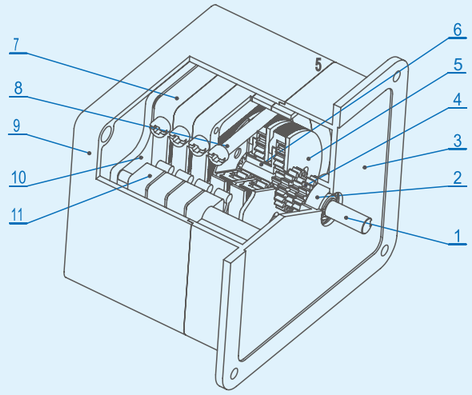
2 原理/Principle

该装置通过齿轮系减速，把多圈输入变为单圈输出，最后带动多个凸轮圆形盘转动，每个凸轮圆形盘凸缘的位置可以通过系统的内部机构随意调整，根据使用要求分别锁定凸缘的初始（或最终）位置。当旋转机构工作时，旋转机构带动所有凸轮圆形盘一起转动。当每个凸轮圆形盘旋转到事先设定的位置时，凸轮圆形盘的凸缘就会触动装在其上对应的机械式电器触头（例如：限位开关、微动开关等）的机构，使得机械电器触头产生通断信号，实现传动系统的电气逻辑控制，从而实现设备在事先设好的位置控制，并可记录所要限位的旋转式传动系统的轴旋转的角度和旋转的圈数，如输出轴上旋转编码器，则能准确测量行程或角度。每台装置上可以根据用户需要安装16个限位开关，从而控制16个限位点。

The device converts multi-circle input to single-circle output through gear trains, along with rotation of multiple disc cams. The position of the cam's peak can be adjusted through device's mechanism.

Set the initial or final position based on your need. When the device rotates, all cams do the same, and trip micro switch when reaching to its preset position. The latter will generate signals, thus realizing logical control of the transmission system. In addition, it can record the rotation angle and rotation number by installing a rotary encoder at the device's output shaft. Each limit device can have up to 16 micro switches.

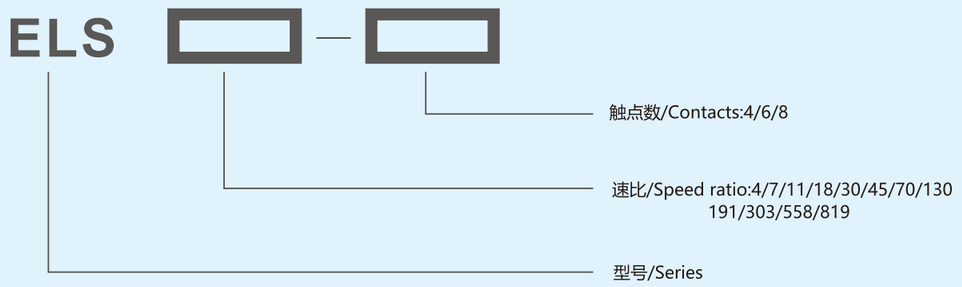
3 结构说明/Internal composition



1、二级4限位轴 2、轴承 3、外壳-前 4、一级齿轮 5、限位组件 6、长太阳轮 7、固定框 8、自锁蜗杆 9、外壳-后 10、尾端固定板 11、微动开关

1. secondary 4-limit shaft 2. bearing 3. housing-front 4. primary gear 5. limit components 6. long sun gear 7. fixation frame 8. self-locking worm 9. housing-rear 10. rear fixation plate 11. micro switch

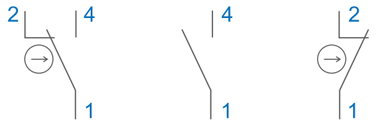
4 型号命名/Model description



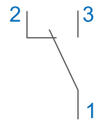
本公司保留调整产品技术规格的权利。
We reserve the right to adjust the technical specification of the products.

5 微动开关接线图 /Micro switch wiring diagram

电气触点的电气连接图/Circuit diagram of switch contact



强制断开触点
Switch with positive opening operation



普通断开触点
Switch with positive opening operation

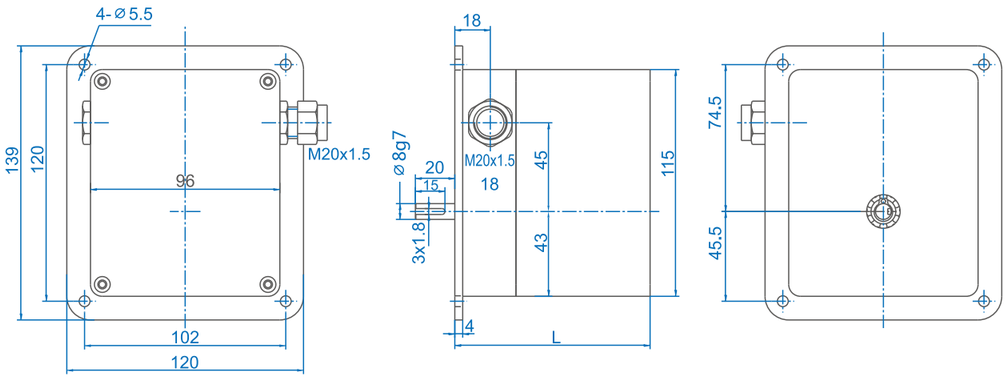
6 外形尺寸及防护等级/External dimension and protection rating

外壳防护等级IP54。
外壳可承受的温度范围从-40℃到+80℃，具有极好的防护性能。

Housing’s protection rating IP54
The housing has an wide temperature endurance ranging from -40°to +80°.

采用M5螺栓固定。

Fixed by M5 bolt



7 外形常规尺寸参数/Model’s overall length

序号	有效速比	长度 L(4 触点)	长度 L(6 触点)	长度 L(8 触点)
No.	Effective Rotation Turns	Length L(4 contacts)	Length L(6 contacts)	Length L(8 contacts)
1	4	100	122	144
2	7	100	122	144
3	11	100	122	144
4	18	100	122	144
5	30	100	122	144
6	45	100	122	144
7	70	122	144	166
8	130	122	144	166
9	191	122	144	166
10	303	122	144	166
11	558	122	144	166
12	819	122	144	166

销齿举升链传动装置询价表

请告知以下信息

公 司 名 称		姓　　名	
具 体 地 址		手 机 号	
交 货 地 址		E – m a l l	
项 目 名 称		计划使用时间	

前 言　本公司从安全作业的角度出发，需要确认以下事项。

如有相符的项目，请在复选框内勾选。

☐ 舞台行业　☐ 游乐设施　☐ 交通工具　☐ 核能　☐ 船舶　☐ 其他工业领域

基本参数	1. 设备名称	_____
	2. 设备行程	有效行程（_____mm）+ 使用行程余量（_____mm）= 总行程（_____mm）
	3. 设备型号及数量	X C L_____ / R - _____ / _____;　_____台
		X C L_____ / L - _____ / _____;　_____台
		X C L_____ / L +R - _____ / _____;　_____台
	4. 联动台数	_____台
	5. 单台设备承载能力	动载荷：_____KN;　静载荷：_____KN
	6. 速度要求	_____m/sec
	7. 使用频次	_____往复 / 时间 × _____时间 / 天 × _____天 / 年
	8. 期待寿命	_____年
	9. 使用环境	☐ 室内　☐ 露天　☐ 潮湿　☐ 干燥　☐ 其他_____
	10. 周围温度	_____℃
	11. 特殊防腐要求	_____
	12. 设备外观颜色	☐ 默认颜色：亚光黑色　☐ 其他：_____

请填写装置的具体动作、使用方法（尽可能详细的布局图、运行动作、以及其他具体信息）

含其他资料

Link Lift Chain Inquiry Sheet

Please provide the following information when submitting an inquiry.

Company		Name	
Address		Phone	
Delivery add.		E – m a i l	
Project name		Use time	

Foreword　From the viewpoint of safe work, we need to confirm the following items.

If there is a matching item, please tick √ in the checkbox.

☐ Stage　☐ Entertainment Equipment　☐ Transport　☐ Nuclear　☐ Watercraft　☐ Others

Basic Information	1.Equipment name	_____
	2.Stroke	use stroke（____mm）+ margin stroke（_____mm）= total（_____mm）
	3.Model & quantity	X C L_____ / R - _____ / _____;　_____units
		X C L_____ / L - _____ / _____;　_____units
		X C L_____ / L +R - _____ / _____;　_____units
	4. Interlock qua.	_____units
	5.Load capacity/column	Dynamic load：_____KN;　Static load：_____KN
	6.Speed	_____mm / sec
	7.Operation cycle	_____round trips / hour × _____hours / day × _____days / year
	8.Expected life	_____year
	9.Ambient conditions	☐ indoor　☐ outdoor　☐ humid　☐ dry　☐ others
	10.Ambient temperature	_____℃
	11.Special anti-corrosion requirements	_____
	12.Paint spec.	☐ default：matte black　☐ others：_____

Equipment operation and usage information (please specify layout, operation, and other detailed information)

☐Separate materials provided

销齿举升链传动方式升降台询价表

请告知以下信息

公 司 名 称		姓　　名	
具 体 地 址		手 机 号	
交 货 地 址		E – m a l l	
项 目 名 称		计划使用时间	

前 言

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☐ 舞台行业　☐ 游乐设施　☐ 交通工具　☐ 其他工业领域

基本参数	设备名称			
	1.台面尺寸	长_____mm，宽_____mm，最低高度_____mm 或 直径Ø_____mm，最低高度_____mm		
	2.设备行程	有效行程（_____mm）+ 使用行程余量（_____mm）= 总行程（_____mm）		
	3.承载能力	动载荷: _____KN，静载荷: _____KN 或 动载荷: _____KN/m2，静载荷: _____KN/m2		
	4.速度	_____m/sec	5.联动台数	_____台
	6.导向方式	☐ 电梯导轨：基坑深度：_____mm ☐ 剪刀撑导向：☐ 直线导轨 ☐滚轮导向		
	7.驱动电机	☐ 三相异步电机 ☐ 伺服电机 ☐ 进口品牌_____ ☐ 国产品牌_____		
	8.辅助驱动（备用驱动）	☐ 是 ☐ 否	9.制动要求	☐ 双制动 ☐ 单制动
	10.电源电压 / 频率	电机：_____V _____Hz; 制动器：_____V _____Hz;		
	11.停止位置	_____点；　多点：上升_____点 / 下降_____点		
	12.是否含电气控制	☐ 是 ☐ 否	13编码器	☐ 增量 ☐ 绝对值
	14.操作台	☐ 固定式 ☐ 移动式	15操作电缆长度	_____m
	16.使用频次/期待寿命	_____往复 / 时间 × _____时间 / 天 × _____天 / 年；　期待寿命_____年		
	17.使用环境	☐ 室内 ☐ 露天 ☐ 潮湿 ☐ 干燥 ☐ 其他_____		
	18.周围温度	_____℃	19.特殊防腐要求	_____
	20.机械设备外观颜色	☐ 默认颜色：亚光黑色 ☐ 其他：_____		
	21.载人	☐ 载人　☐ 不载人		

请填写装置的具体动作、使用方法（尽可能详细的布局图、运行动作、以及其他具体信息）

含其他资料

Link “Lift” Chain Platform Lift Inquiry Sheet

Please provide the following information when submitting an inquiry.

Company		Name	
Address		Phone	
Delivery add.		E – m a i l	
Project name		Use time	

Foreword

From the viewpoint of safe work, we need to confirm the following items.
If there is a matching item, please tick √ in the checkbox.

☐ Stage　☐ Entertainment Equipment　☐ Transport　☐ Others

Basic Information	Equipment name			
	1.Table size	L___mm，W___mm or dia._____mm; basic height___mm		
	2.Stroke	use stroke（____mm）+ margin stroke（_____mm）= total（_____mm）		
	3.Load	Dyn.load：_____☐KN/☐KN/m²，sta load：_____☐KN/☐KN/m²		
	4.Speed	_____m/sec	5.Interlock qua.	_____units
	6.Guide	☐ guide rail：pit height：_____mm ☐ scissors：☐ slider ☐ roller		
	7.Motor	☐ three-phase ☐ servo ☐ import_____ ☐ domestic_____		
	8.Aux. drive（backup）	☐ yes ☐ no	9.Brake	☐ double ☐ single
	10.Power V/F	Power supply：_____V _____Hz; brake：_____V _____Hz;		
	11.Stop position	_____points；　multiple：up_____points / down_____points		
	12.Electrical control	☐ yes ☐ no	13.encoder	☐ incremental ☐ abso.
	14.console	☐ fixed ☐ mobile	15.Cable length	_____m
	16.Operation cycle/expected life	____round trips / hour × ____hours / day × _____days / year; expected life_____years		
	17.Ambient conditions	☐ indoor ☐ outdoor ☐ humid ☐ dry ☐ others		
	18.Ambient temp.	_____℃	19.Special anti-corrosion requirements	_____
	20.Paint spec.	☐ default：matte black ☐ others：_____		
	21.Handling people	☐ yes　☐ no		

Equipment operation and usage information (please specify layout, operation, and other detailed information

Separate materials provided

销齿推拉链传动装置询价表

请告知以下信息

公 司 名 称		姓　　名	
具 体 地 址		手 机 号	
交 货 地 址		E – m a l l	
项 目 名 称		计划使用时间	

前 言　本公司从安全作业的角度出发，需要确认以下事项。

如有相符的项目，请在复选框内勾选。

☐ 舞台行业　☐ 交通工具　☐ 核能　☐ 人员输送　☐ 食品行业　☐ 其他工业领域

基本参数	1. 设备名称	_____
	2. 设备行程	有效行程（_____mm）+ 使用行程余量（_____mm）= 总行程（_____mm）
	3. 出轴方向及设备数量	☐ L 左出轴_____台　☐ R 右出轴_____台　☐ L+R 双出轴_____台
	4. 联动台数	_____台
	5. 单台设备推拉能力	推力：_____KN；　拉力：_____KN
	6. 速度要求	_____m/sec
	7. 使用频次	_____往复 / 时间 × _____时间 / 天 × _____天 / 年
	8. 期待寿命	_____年
	9. 使用环境	室内　露天　☐ 潮湿　☐ 干燥　☐ 其他_____
	10. 周围温度	_____℃
	11. 特殊防腐要求	_____
	12. 设备外观颜色	☐ 默认颜色：亚光黑色　☐ 其他：_____

请填写装置的具体动作、使用方法（尽可能详细的布局图、运行动作、以及其他具体信息）

☐ 含其他资料

Link “Push-Pull” Chain Inquiry Sheet

Please provide the following information when submitting an inquiry.

Company		Name	
Address		Phone	
Delivery add.		E – m a i l	
Project name		Use time	

Foreword　From the viewpoint of safe work, we need to confirm the following items.

If there is a matching item, please tick √ in the checkbox.

☐ Stage　☐ Transport　☐ Nuclear　☐ People Handling　☐ Food Handling　☐ Others

Basic Information	1.Equipment name	_____
	2.Stroke	use stroke（____mm）+ margin stroke（_____mm）= total（_____mm）
	3. Shaft direction & qua.	☐ Left shaft_____units　☐ Right shaft_____units　☐ L+R_____units
	4. Interlock qua.	_____units
	5.Load capacity/column	Push：_____KN；　Pull：_____KN
	6.Speed	_____mm / sec
	7.Operation cycle	_____round trips / hour × _____hours / day × _____days / year
	8.Expected life	_____years
	9.Ambient conditions	☐ indoor　☐ outdoor　☐ humid　☐ dry　☐ others
	10.Ambient temperature	_____ºC
	11.Special anti-corrosion requirements	_____
	12.Paint spec.	☐ default：matte black　☐ others：_____

Equipment operation and usage information (please specify layout, operation, and other detailed)

☐ Separate materials provided

销齿咬合链传动装置询价表

请告知以下信息

公 司 名 称		姓　　名	
具 体 地 址		手 机 号	
交 货 地 址		E – m a I l	
项 目 名 称		计划使用时间	

前 言

本公司从安全作业的角度出发，需要确认以下事项。

如有相符的项目，请在复选框内勾选。

☐ 舞台行业　☐ 交通　☐ 核能　☐ 悬挂用途　☐ 人员输送　☐ 食品行业　☐ 生物科技

基本参数	1. 设备名称	_____
	2. 用途	_____
	3. 输送物总重	_____Kg
	4. 设备行程	有效行程（_____mm）+ 使用行程余量（_____mm）= 总行程（_____mm）
	5. 运行速度	_____m/sec
	6. 出轴方向及设备数量	☐ L 左出轴_____台　☐ R右出轴_____台　☐ L+R双出轴_____台
	7. 联动台数	_____台
	8. 安装方向	☐ 提升/下降　☐ 水平推/拉　☐ 悬挂提/拉
	9. 使用环境	☐ 室内　☐ 露天　☐ 潮湿　☐ 干燥　☐ 其他_____
	10. 周围温度	_____℃
	11. 使用频次	_____往复 / 时间 × _____时间 / 天 × _____天 / 年
	12. 期待寿命	_____年
	13. 特殊防腐要求	_____
	14. 设备外观颜色	☐ 默认颜色：亚光黑色　☐ 其他：_____

请填写装置的具体动作、使用方法（尽可能详细的布局图、运行动作、以及其他具体信息）

含其他资料

Link "Zip" Chain Inquiry Sheet

Please provide the following information when submitting an inquiry.

Company		Name	
Address		Phone	
Delivery add.		E – m a i l	
Project name		Use time	

Foreword

From the viewpoint of safe work, we need to confirm the following items.

If there is a matching item, please tick √ in the checkbox.

☐ Stage　☐ Transport　☐ Nuclear　☐ Hanging　☐ Food Handling　☐ Biotech

Basic Information	1.Equipment name	_____
	2.Application	_____
	3.Handling weight	_____Kg
	4.Stroke	use stroke（____mm）+ margin stroke（_____mm）= total（_____mm）
	5.Speed	_____mm / sec
	6.Shaft direction & qua.	☐ Left shaft_____units　☐ Right shaft_____units　☐ L+R_____units
	7.Interlock qua.	_____units
	8.Chain running direction	☐ upwards　☐ horizontal push-pull　☐ hanging pull
	9.Ambient conditions	☐ indoor　☐ outdoor　☐ humid　☐ dry　☐ others
	10.Ambient temp.	_____℃
	11.Operation cycle	_____round trips / hour × _____hours / day × _____days / year
	12.Expected life	_____years
	13.Special anti-corrosion requirements	_____
	14.Paint spec.	☐ default：matte black　☐ others：_____

Equipment operation and usage information (please specify layout, operation, and other detailed information)

☐ Separate materials provided