

ES-II SERIES

SERVO ROBOT CATALOG

STAR ASIA NETWORK

国家 / 公司名 Country / Company Name	联系方式 Contact	国家 / 公司名 Country / Company Name	联系方式 Contact
1 Japan STAR SEIKI CO., LTD. 3-133, Akita, Ohguchi-cho, Niwa-gun, Aichi Pref., 480-0132, JAPAN	TEL +81-587-95-7572 FAX +81-587-95-7573	18 China STAR SEIKI (HONGKONG) CO., LTD.	TEL +852-2687 6745 FAX +852-2690 4322
2 China 星精机械(上海)有限公司 上海市徐汇区桂平路555号46栋208室	TEL +86-21-5423 4571 FAX +86-21-5423 4570	19 Taiwan STAR SEIKI TAIWAN, INC.	TEL +886-2-2836-0039 FAX +886-2-2835-9987
3 China 星精机械(上海)有限公司 大连分公司	TEL +86-411-8756 2176 FAX +86-411-8756 2937	20 Taiwan STAR SEIKI TAIWAN, INC. TAICHUNG OFFICE	TEL +886-4-2463-1361 FAX +886-4-2463-1691
4 China 星精机械(上海)有限公司 天津分公司	TEL +86-22-5838 7675 FAX +86-22-5811 2975	21 Taiwan STAR SEIKI TAIWAN, INC. TAINAN OFFICE	TEL +886-6-273-8985 FAX +886-6-273-8948
5 China 星精机械(上海)有限公司 青岛分公司	TEL +86-532-5556 5517 FAX +86-532-5556 5518	22 Thailand STAR SEIKI (THAILAND) CO., LTD.	TEL +66-2-651-0285 FAX +66-2-651-0288
6 China 星精机械(上海)有限公司 昆山分公司	TEL +86-512-5782 2231 FAX +86-512-5782 2844	23 Thailand STAR SEIKI (THAILAND) CO., LTD. PRACHINBURI BRANCH	MOB +66-8-9927-4610
7 China 星精机械(上海)有限公司 苏州事务所	TEL +86-512-6805 8385 FAX +86-512-6805 8250	24 Singapore STAR SEIKI SINGAPORE PTE. LTD.	TEL +65-6555-1391 FAX +65-6555-1392
8 China 星精机械(上海)有限公司 武汉事务所	TEL +86-27-8425 3500 FAX +86-27-8479 2646	25 Malaysia STAR SEIKI (SINGAPORE) PTE. LTD. K.L. BRANCH	TEL +60-3-5882-0211 FAX +60-3-5882-0212
9 China 星精机械(上海)有限公司 深圳分公司	TEL +86-755-2962 2620 FAX +86-755-2962 2341	26 Malaysia STAR SEIKI (SINGAPORE) PTE. LTD. J.B. BRANCH	TEL +60-7-598-7271 FAX +60-7-598-7275
10 China 星精机械(上海)有限公司 余姚事务所	TEL +86-574-6253 2721	27 Indonesia PT. STAR SEIKI INDONESIA	TEL +62-21-7191729 FAX +62-21-7198870
11 China 星精机械(上海)有限公司 广州分公司	TEL +86-20-3708 4205 FAX +86-20-3708 4277	28 Indonesia PT. STAR SEIKI INDONESIA SURABAYA BRANCH	TEL +62-31-5453414
12 China 星精机械(上海)有限公司 厦门事务所	TEL +86-592-5779 994 FAX +86-592-5779 994	29 Philippines STAR SEIKI PHILIPPINES INC.	TEL +63-49-544-0652 FAX +63-49-502-7953
13 China 星精机械(上海)有限公司 重庆分公司	TEL +86-23-6036 0877 FAX +86-23-6036 0968	30 Vietnam STAR SEIKI (VIETNAM) CO., LTD.	TEL +844-3772-6270 FAX +844-3772-6271
14 China 星精机械(上海)有限公司 郑州事务所	TEL +86-371-8663 1610 FAX +86-371-8663 1610	31 Vietnam STAR SEIKI (VIETNAM) CO., LTD. HO CHI MINH BRANCH	TEL +848-6297-9431 FAX +848-6297-9481
15 China 星精机械(上海)有限公司 温州事务所	TEL +86-577-5657 9033 FAX +86-577-5587 2290	32 India STAR SEIKI INDIA PRIVATE LIMITED	TEL +91-024-420-6807
16 China 星塔机械(深圳)有限公司	TEL +86-755-2724 6653 FAX +86-755-2724 6650	33 India STAR SEIKI INDIA PRIVATE LIMITED CHENNAI OFFICE	TEL +91-444-202-9923
17 China 中日龙(襄阳)机电技术开发有限公司	TEL +86-710-331 1813 FAX +86-710-332 0152		



星精机械(上海)有限公司
STAR SEIKI (SHANGHAI) CO., LTD.
http://www.starseiki.cn

上海市徐汇区桂平路555号46栋208室
TEL: 021-54234571 FAX: 021-54234570

星精机械(上海)有限公司 深圳分公司
广东省深圳市宝安区沙井镇博岗松山工业区松山西路6号
TEL: 0755-29622620 FAX: 0755-29622341

升级版II系列上市。



缩短周期

CYCLE UP

3项功能升级, 提高生产效率。

The functional evolution of three, providing increased production efficiency.

高速响应

Fast response

高刚性

High rigidity

装载高性能伺服驱动器
High performance servo driver adoption.

增强上下轴、前后轴的刚性
Rigidity up Vertical axis·Crosswise axis

信赖设计

Trust Design

根据3-D CAD的CAE模拟分析进行设计
Design by CAE simulation analysis of 3-D CAD

Evolution of four.

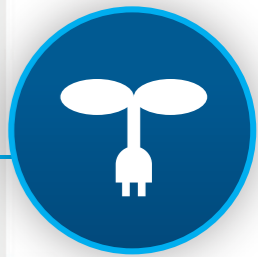
4项功能升级。

ES-II系列、



节能

SAVING ENERGY



削减了电力和空气消耗量。

Consumption of power consumption and air is reduced.

节能模式功能

Energy-saving mode function

节能吸附功能

Energy saving vacuum adsorption function

耗电量

削减 约25%

Power consumption reduced by 25%

空气消耗量

削减 约75%

Air consumption reduced by 75%

※与eS-800对比 Comparison value with eS-800



更加简单·放心

EASY CONTROL & SAFE DESIGN

操作更简单·更放心·更安全。

Easy operation, and relief and safety are realized.

「操作简单」 Easy operation

采用7.5英寸的彩色液晶触摸屏
7.5-inch color liquid crystal touch panel

提高识别性
Improvement of visibility

装载USB通信端口
USB communication port

步进动作
Step Feed Operation

插入式用户可编程功能
Easy NC steps (User Program Editing)

放心·安全 Relief·Safety

采用3段式动作可能键
3-Position Enabling Switch

使用SD内存卡
SD Memory Card

功能扩张性

EXTENDIBILITY



实现宽广的扩张性功能。

The function to realize large extendibility.

最多同时控制8轴 (含机械手的轴数)

Up to 8-axis concurrency control (axis control of servo robot included).

姿势·旋转2NC (ESW系列的选项)

Servo posture & rotate (ESW series option)

夹具自动交换系统 (选项)

Chuck automatic exchange. (OP)

丰富的夹具配件

Chuck parts accessories.



ES-II SERIES



缩短周期

CYCLE UP

高速响应

Fast response

装载高性能伺服驱动器
High performance servo driver adoption.



提高响应速度
Improvement of response

高刚性

High rigidity

增强上下轴、前后轴的刚性
Rigidity up Vertical axis·Crosswise axis



降低振动幅度·缩短取出周期
Vibration reduction·Extract dry cycle up

取出周期
缩短 约10%
Extract dry cycle
reduced by 10%

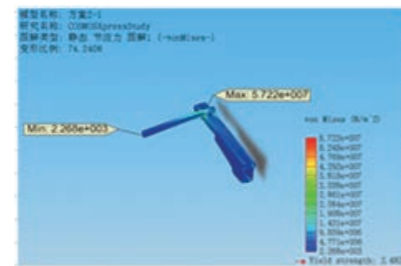
全周期
缩短 约15%
Total dry cycle
reduced by 15%

※与eS-800对比Comparison value with eS-800

信赖设计

Trust Design

通过3-D CAD的CAE模拟分析进行设计
Design by CAE simulation analysis of 3-D CAD

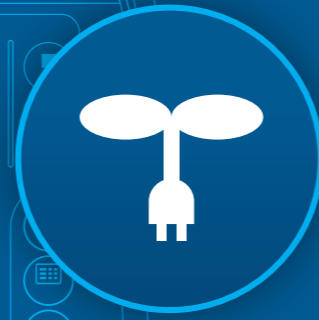


(CAE: Computer Aided Engineering)



直动导轨·马达·减速机·空压控制器采用信赖度非常高的日本厂家。
LM guide, servo motor, reduction gears, and empty pressure control apparatus employ a reliable Japanese maker.

CYCLE UP



节能

SAVING ENERGY

节能模式功能

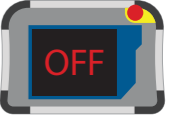
Energy-saving mode function

伺服休眠功能
Servo sleep feature



在超过设定时间后的待机时间中,关闭马达通电。
Motor power is turned off after the set time.

背景灯自动OFF功能
Backlight Auto OFF



超过[显示OFF时间]设定的时间如果不操作操作盒,背景灯则关闭。
The backlight goes out if no pendant operation is performed for the period set with the [DISPLAY OFF TIME] function.

耗电量
削减 约25%
Power consumption
reduced by 25%

※与eS-800对比 Comparison value with eS-800

节能吸附功能

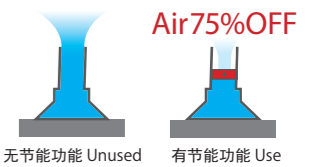
Energy saving vacuum adsorption function

采用带节能功能的真空产生器

A vacuum generator with an energy-saving function is adopted.

为维持真空压力,自动控制空气供给阀。

Automatically control air supply dialect to maintain vacuum pressure.



空气消耗量
削减 约75%
Air consumption
reduced by 75%

※与eS-800对比 Comparison value with eS-800

SAVING ENERGY

更加简单 · 放心

EASY CONTROL & SAFE DESIGN

操作简单 | Easy operation

采用7.5英寸
的彩色液晶触摸屏
7.5-inch color liquid crystal
touch panel

画面大,易操作。
Operation is easy on the big screen.

提高识别性
Improvement of visibility

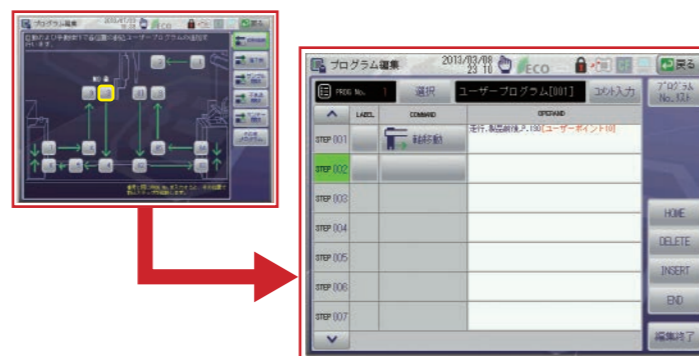
操作面板按键根据不同功能进行配色,增强了识别度。
The color scheme of the operation sheet key was distinguished for every function, and visibility was improved.

步进动作
Step Feed Operation

使用步进操作,机械手一步一步实施被设定好的动作,可确认机械手的设定条件。
Step feed operation causes the Servo robot to execute the currently set operation step by step, allowing you to check the setting conditions of the Servo robot.

插入式用户可编程功能
Easy NC steps (User Program Editing)

NC程序的简易设定功能,在步进操作中可指定插入位置。
Features the simple NC step program settings. This makes it possible to designate positions for interruptions in mold changing operations.



装载USB通信端口
USB communication port

与电脑连接便捷。
Allows PC connection.



ES-II系列操作盒 | ES-II SERIES CONTROLLER

STEC-NC2a

放心·安全 | Relief · Safety

使用3段式动作可能键

3- Position Enabling Switch

根据人类工程学充分考虑安全的基础上,采用3段式动作可能键。

3-position enabling switch which considered the safety based on ergonomics is adopted as the key which can be operated.



采用SD内存卡

SD Memory Card

外部记忆存储采用SD卡。
SD card is adopted as an external memory.

能够记忆1000套模具的换模数据。
Recordable step changes (1000 molds)



1000 molds

EASY CONTROL
&
SAFE DESIGN



功能扩张性

EXTENDIBILITY

最多同时控制8轴 (含机械手轴数)

Up to 8-axis concurrency control (axis control of servo robot included).

装载高性能CPU，最多可同时控制8轴用以同时控制周边装置。
Concurrency control of peripheral devices such as systems / servo robot.



姿势·旋转2NC (ESW系列选项)

Servo posture & rotate (ESW series option)

扩大了插件动作、水口剪切动作、装箱动作等的活用范围。

AC servo motors which are equipped in posture and rotation axes of the servo robot without runner axis allow gate cutting, packaging, or insert motion.



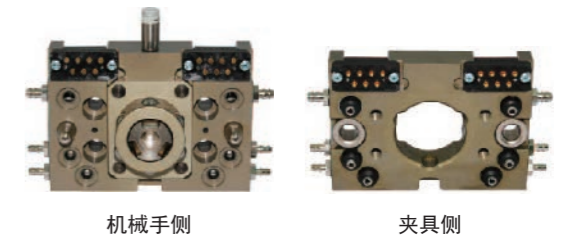
夹具自动交换系统 (选项)

Chuck automatic exchange. (OP)

夹具自动交换用配件安装在制品取出臂上,解决了烦琐的换模设定。

By attaching the side product take-out arm chuck exchange automated tools, the setup recombinant complicated is automated.

夹具自动交换用配件 OX系列 Quick chuck change automatic OX series



丰富的夹具配件

Chuck parts accessories.

在有效使用机械手时,注塑品取出用的夹具板变得尤其重要。本公司拥有种类丰富的夹具部品及丰富的经验,能够制作出各种取出注塑品使用的最合适夹具板。

Chuck plates allows more effective use of servo robot. A wide selection of chuck parts such as Quick Chuck Change OX and accumulated experience allows production of chuck plates that best suits your needs.



eins 商店 | eins Shop

<http://www.eins1.jp>

吸着
Suction



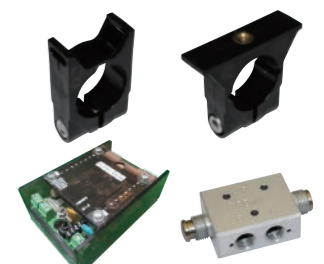
抓取
Grip



剪切
Cut



配管部品·传感器
Tubing·Sensors



标准功能

STANDARD FUNCTIONS

功能名 Function Name	说明 Description
取出下降待机 Delayed arm descent	开模完前, 夹具下降至模具附近待机, 有效缩短取出周期。可任意变更设定位置。 Used to shorten the cycle time by letting the product-side/runner-side vertical arm stand by just above the mold. Setting position is adjustable.
前进取出侧姿势控制 Crosswise product extract side posture control	在姿势动作状态下通过安全门上方, 可取出和搬送纵型产品时, 为避免与模具上的障碍物及行走导轨干涉, 可任意设定姿势动作的前后位置。 Used to first carry out posture action on the extracting side and then start traverse action after extracting vertically extended products. But in order to avoid interference with an obstacle on mold or the traverse rail, used to carry out the posture action after the completion of advance action. Crosswise position is adjustable.
节能吸着确认单元(1回路) Energy saving vacuum confirmation unit (1 circuit)	使用带节能功能的真空发生单元1回路取出产品。 Products are extracted with vacuum generator (tacovam) 1 circuit. (Energy saving vacuum confirmation unit type)
自由滑移取出 Free extract for under-cut mold	取出有扣位的产品时, 在抓取到产品后根据轴设定值移动, 解除扣位后取出产品。 Extracting the products with snap joints, moving it according to axis setting after taking the products. The products can be extracted after unlocking the joints.
顶针联动 Ejector link	与注塑机的顶针联动, 取出产品。 Product extraction is performed in conjunction with the ejector of IMM.
顶针后退联动 Ejector return link	抓取产品后, 与注塑机中的顶针联动, 取出产品。 The ejector of IMM is interlocked with after holding a product.
水口模内开放 Runner release within mold	产品或水口从模具上剥离后, 需要直接在模内开放时选择此功能。 Used to release products or runners within mold after pulling them out of the mold.
固定可动切换 Extraction from fixed mold	标准机从模具可动侧取出产品。切换至固定侧则从模具固定侧取出产品。 Standard machines is designed to extract products from the moving-side mold. To extract products from the fixed mold after molding, use the operation mode for this fixed-side extraction.
前后自由伺服点 Crosswise Free Servo point	在产品夹取位置限制前后轴的伺服马达扭矩, 防止对手臂增加负荷时造成损伤。 The torque of the servo motor of an anteroposterior axis is restricted in a product chuck position. The damage to when load is added to an arm is prevented.
行走途中姿势 Posture control during traverse	在行走途中与姿势动作、行走复归开始同时进行姿势复位, 可缩短全周期。 All the cycles can also be shorten by carrying out traverse return and posture return together after products were released during traverse action.
水口途中落下(行走·复归) Midway runner release (Move·Revert)	2板模时, 在浇口往返行走途中进行开放动作。 Runner is released during traverse or traverse return motion when 2 mold plates are used.
不良品排出 Defective product reject	与注塑机发出的不良品信号联动, 进行不良品排出动作。 Defective products are separated from other products interlocked with the defect signal of IMM.
初期不良品排出 Initial defective product reject	换模或换料后, 在刚开始的一段时间即使注塑出的产品也是不良品的情况下, 自动开始后, 在排出位置排出已设定了取出次数的产品及水口, 之后再行正常运转。 Ejects only the number of extracted products and sprues preset with the counter to the ejection position after the start of automatic operations when faulty products exist after the continuation of molding following the replacement of the metal mold or material. Normal operations are then performed after this.
横行走待机 Delayed traverse	如开模不完, 机械手或夹具板与模具上的障碍物相干涉时, 行走复归途中在行走体待机, 等待开模完毕。 Used to let the unloader stand by outside the molding machine's door if there are obstacles in the mold moving section.
落下侧下降途中姿势 Posture midway descent at release side	在产品开放下降途中进行姿势反转动作。在上升途中进行姿势反转复位动作。 Operation of posture reversal is carried out in the middle of downward of product opening. Return operation of posture reversal is performed in the middle of a rise.
装箱点 Point packaging	与输送带或排列机等装箱设备联动, 进行产品的装箱动作。(各轴256点) Packaging operation carried out by linking with packaging device of conveyer or of pallet changer. (Max 256 points)
自由装箱点(100点×2级) Point free packaging (100 points × 2 stage)	设定从注塑机中取出的产品的随机开放顺序。 Set the order to randomly release the products extracted form the molder.
输送带启动信号 Start signal of conveyor	产品开放完毕后, 启动输送带动作信号。 After opening a product wide, the signal of a conveyor start is taken out.
3国语言切换(简体中文、日文、英文) Three language exchange (Chinese(new), Japanese, English)	操作盒的显示画面可切换3国语言。日语·英语·汉语(简体字)为基本的切换语言。 Language switching between three languages can be used for display. Basically used languages are Japanese, English, and Chinese (new character format).
插入式用户编程 Easy NC steps (USER PROGRAM EDITING)	NC步进程序的简易设定功能。在步进操作中可指定插入位置。 Features the simple NC step program settings. This makes it possible to designate positions for interruptions in mold changing operations.
外部存储记忆 External storage memory	换模信息(最大1000套)保存在SD卡。 Recordable step changes (Max 1000 molds). A memory is carried out to SD card.
设定值隐藏功能 Default blind feature	通过隐藏功能只显示需要的轴点、时间等, 能够缩短设定时间, 提高作业效率。 The teaching time is reduced by the default blind feature that enables only axis point, timer, etc, required for actions to display. The operation efficiency is improved.
伺服休眠 Servo sleep feature	在超过设定时间后的待机中, 关闭马达电源。 Motor power is turned off after the set time.
背景灯自动OFF Backlight Auto OFF	超过[显示OFF时间]设定的时间如果不操作操作盒, 背景灯则关闭。 The backlight goes out if no pendant operation is performed for the period set with the [DISPLAY OFF TIME] function.
USB通信端口 USB communication port	可轻松连接电脑。 PC connection is simple.

选项功能

OPTION FUNCTIONS

姿势·旋转2NC

Servo posture & rotate

扩大插件动作、浇口剪切动作、装箱动作的活用范围。此选项仅限于ESW系列机械手。

AC servo motors which are equipped in posture and rotation axes of the servo robot without runner axis allow gate cutting, packaging, or insert motion. ESW series option.



选项清单 | OPTION LIST

选项编号及名称 Code no. & Description of option	选项说明 Option Name
取出侧 0007-04 节能吸着确认单元(2回路) Energy saving vacuum confirmation unit (2circuits)	使用带节能功能的真空发生单元2回路取出产品。 Products are extracted with vacuum generator (tacovam) 2 circuits. (Energy saving vacuum confirmation unit type)
0007-06 节能吸着确认单元(4回路) Energy saving vacuum confirmation unit (4circuits)	使用带节能功能的真空发生单元4回路取出产品。 Products are extracted with vacuum generator (tacovam) 4 circuits. (Energy saving vacuum confirmation unit type)
0081-01 夹具减压阀 Chuck pressure regulator	调整夹具的抓取力。 Adjust the gripping force of the chuck.
0025-01~04 旋转功能 Rotation Unit	进行夹具板旋转动作。可以选择在模内、模外、落下侧进行旋转动作。 Used to prevent product from hitting the robot in the mold, within the mold or on the release side by rotating the chuck plate.
0055-01 上升途中闭模 Mold close during arm ascent	模内上升途中, 使注塑机开始闭模, 缩短开模时间, 提高周期的仕样。 Used to shorten the molding time by starting the mold closing on the way to ascent.
0087-02 制品确认(LS-4) Product confirmation LS-4	上升途中安装限位开关, 检出产品。 Detects the product mounting the limit switch in the middle rise.
落下侧 0008-01 剪刀回路(夹具内) Air nipper in chuck circuit	使用夹具内气剪(1回路)剪切口水口的时候, 需要此仕样。 自动运转时在落下侧的产品开放位置, 产品开放前进行此动作。 Used to take the cutting of direct gates or side gates with the air nipper in the chuck plate. When in automatic operation, cutting is made at product release position before the product release.
0001-02 制品2点开放 Release product at two different points	在2处进行制品开放动作。产品夹取变为2回路。 Two different products are extracted and released to different positions on the release side. Two circuits are required for the chucking.
0001-03 制品4点开放 Release product at four different points	在4处进行制品开放动作。产品夹取变为4回路。 Four different products are extracted and released to different positions on the release side. Four circuits are required for the chucking.
0009-01 NT剪切·可动侧(有单元) NT gate cutting on crossmember of moving mold side (w/unit)	以处理产品水口为目的, 在落下侧的行走导轨端安装NT单元气剪, 切断水口。 For purposes of product gate processing, the air nipper in the NT unit mounted at the end of the release-side traverse rail is used to cut gates at 2 points.
其它 0024-01 警报灯(红色·无蜂鸣器) Alarm Lamp (Red color, w/o buzzer)	机械手发生警报(异常)时, 警报灯亮。 因机种不同, 警报灯的安装位置也有所不同, 需确认。 The alarm lamp is switched on a light when there is a alarm (error) in the robot. Mounting positions are different with robots.
8003-01 自动快速交换用夹具(气压式) Quick chuck change automatic (air sw)	可快速装卸夹具。 One-touch simple mating/demating of chuck plate.
0005-11 操作盒支架 Pendant stand	操作盒专用支架。 Stand of operation pendant only.
0063-02 欧规 12 (SPI) EUROMAP 12 (SPI)	欧规 12 (SPI) EUROMAP 12 Specification (SPI)
0063-03 欧规 67 EUROMAP 67	欧规 67 EUROMAP 67 Specification

CNC编程功能

CNC program editing function

可以简单自由的编写自动运转程序。

Can be created easily the NC program freely.



ES-II 系列规格



ES-II SERIES SPECIFICATIONS

ES-650II ES-650sII



适用射出注塑机 Injection Press Range
40-100 ton

基本参数 | COMMON SPECIFICATIONS

电源 Power Source	常用气压 Air Pressure	驱动方式 Drive System	姿势(气缸) Posture (Air Cylinder)	气动姿势部推力(气压:0.49Mpa时) Air Cylinder Driving Force (Air Pressure at 0.49Mpa)		控制箱 Control Box
				最大可搬重量 Max. Load	姿势力矩 Posture Torque	
AC200V ±10% 50/60Hz(单相) Single Phase	0.49Mpa	AC伺服马达 AC Servo Motor	90° 固定 90° Fixed	3kg (含夹具重量) Incl Chuck Weight	4.9N·m	STEC-NC2a

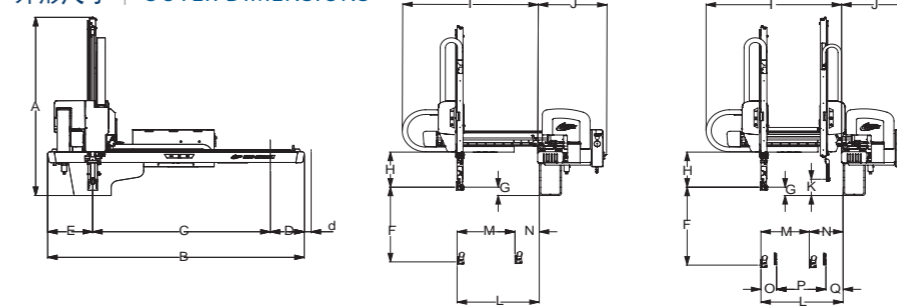
综合参数 | GENERAL SPECIFICATIONS

机种 Model	行程(移动量) (mm) Stroke				电源设备容量 (KVA) Electric Consumption	最大消费电力 (KW) Max Power Consumption	机器重量 (kg) Net Weight		空气消耗量 (N/L/周期) Air Consumption (N/L/Cycle)
	上下 ①Vertical	上下 ②Vertical	前后 Crosswise	走行 Traverse			本体 Main Body	操作盒 Pendant	
ES-650II	650 [800]	—	75~555 [75~675]	1200 [1000] [1400] [1600]	1.4	1.1	136	1.1	0.78
ES-650sII	—	700 [850]	① 225~555 ② 93~423 ③ 225~675 ④ 93~543	—	2.6	1.7	152	—	—

① [] 尺寸表示选项行程。
② 本体重量包括控制箱及电线的重量。
③ ④: 表示制品侧手臂, ⑤: 表示水口侧手臂。
⑥ 将走行行程为1200和1600mm行程的走行体向取出侧移动200mm时, 走行行程变为1000和1400mm。

⑦ Figure in [] shows option stroke.
⑧ Net weight includes the weight of interlock box and driver box.
⑨ In the column of stroke, ① stands for product side arm and ② stands for runner side arm.
⑩ Make the travers as 1200 and 1600 mm moving forward to extracting side as 200 mm it will be 1000 and 1400 mm.

外形尺寸 | OUTER DIMENSIONS



① [] 内的尺寸表示选项行程。
② 水口夹的厚度为25mm。
③ 姿势部厚度为45mm, 但根据配管方式不同, 此尺寸多少会有些不同。
④ 水口侧上下行程比制品侧上下行程长50mm。
⑤ *1表示F尺寸为800mm。
⑥ *2表示C尺寸为1000mm。
⑦ *3表示C尺寸为1400mm。
⑧ *4表示C尺寸为1600mm。
⑨ *5表示L尺寸为675mm。
⑩ Figure in [] shows option stroke.
⑪ Thickness of runner chuck is basically about 25 mm.
⑫ Thickness of posture area is basically about 45 mm (depends on tubing).
⑬ Runner side vertical stroke is 50 mm longer than that of product side.
⑭ *1 When dimension F is 800 mm.
⑮ *2 When dimension C is 1000 mm.
⑯ *3 When dimension C is 1400 mm.
⑰ *4 When dimension C is 1600 mm.
⑱ *5 When dimension L is 675 mm.

机种 Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
ES-650II	1280 [1410] ^{*1}	1740 [1740] ^{*2}	1200 [1000] ^{*2} [1400] ^{*3} [1600] ^{*4}	230 [230] ^{*2} [250] ^{*3} [250] ^{*4}	310 [510] ^{*2} [250] ^{*3} [310] ^{*4}	650 [800] ^{*1}	70	257	930 [1080] ^{*5}	460	—	555 [675] ^{*5}	480 [600] ^{*5}	75	—	—	—
ES-650sII	1340 [1460] ^{*1}	—	—	—	—	—	—	—	—	—	120	—	330 [450] ^{*5}	225	132	330 [450] ^{*5}	93

* 反操作时E值为230、[430]^{*2}、[430]^{*3}、[230]^{*4}
D值为310、[310]^{*2}、[330]^{*3}、[330]^{*4}

* d值正操作时为70、[70]^{*2}、[75]^{*3}、[75]^{*4}
反操作时为70、[70]^{*2}、[80]^{*3}、[80]^{*4}

ES-800II ES-800sII



适用射出注塑机 Injection Press Range
100-350 ton

基本参数 | COMMON SPECIFICATIONS

电源 Power Source	常用气压 Air Pressure	驱动方式 Drive System	姿势(气缸) Posture (Air Cylinder)	气动姿势部推力(气压:0.49Mpa时) Air Cylinder Driving Force (Air Pressure at 0.49Mpa)		控制箱 Control Box
				最大可搬重量 Max. Load	姿势力矩 Posture Torque	
AC200V ±10% 50/60Hz(单相) Single Phase	0.49Mpa	AC伺服马达 AC Servo Motor	90° 固定 90° Fixed	5kg (含夹具重量) Incl Chuck Weight	12.9N·m [20.2 N·m]	STEC-NC2a

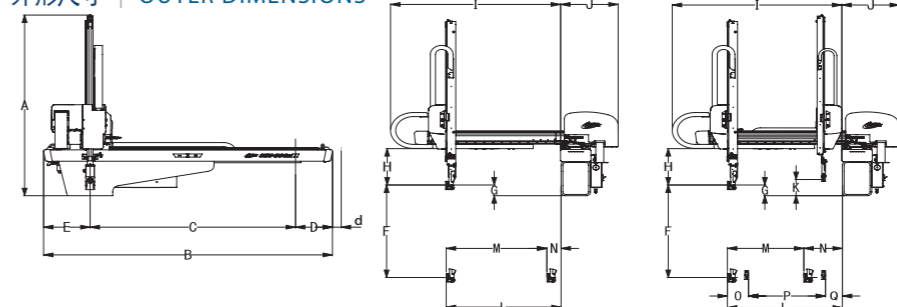
综合参数 | GENERAL SPECIFICATIONS

机种 Model	行程(移动量) (mm) Stroke				电源设备容量 (KVA) Electric Consumption	最大消费电力 (KW) Max Power Consumption	机器重量 (kg) Net Weight		空气消耗量 (N/L/周期) Air Consumption (N/L/Cycle)
	上下 ①Vertical	上下 ②Vertical	前后 Crosswise	走行 Traverse			本体 Main Body	操作盒 Pendant	
ES-800II	800 [1000]	—	97~783 [97~933]	1400 [1200] [1600] [1800]	1.4	1.1	187	1.1	1.40
ES-800sII	—	850 [1050]	① 263~783 ② 115~635 ③ 263~933 ④ 115~785	—	2.6	1.7	203	—	—

① [] 尺寸表示选项行程。
② 本体重量包括控制箱及电线的重量。
③ ④: 表示制品侧手臂, ⑤: 表示水口侧手臂。
⑥ 将走行行程为1400和1800mm行程的走行体向取出侧移动200mm时, 走行行程变为1200和1600mm。

⑦ Figure in [] shows option stroke.
⑧ Net weight includes the weight of interlock box and driver box.
⑨ In the column of stroke, ① stands for product side arm and ② stands for runner side arm.
⑩ Make the travers as 1400 and 1800 mm moving forward to extracting side as 200 mm it will be 1200 and 1600 mm.

外形尺寸 | OUTER DIMENSIONS



① [] 内的尺寸表示选项行程。
② 水口夹的厚度为25mm。
③ 姿势部厚度为60mm, 但根据配管方式不同, 此尺寸多少会有些不同。
④ 水口侧上下行程比制品侧上下行程长50mm。
⑤ *1表示F尺寸为1000mm。
⑥ *2表示C尺寸为1200mm。
⑦ *3表示C尺寸为1600mm。
⑧ *4表示C尺寸为1800mm。
⑨ *5表示L尺寸为933mm。
⑩ Figure in [] shows option stroke.
⑪ Thickness of runner chuck is basically about 25 mm.
⑫ Thickness of posture area is basically about 60 mm (depends on tubing).
⑬ Runner side vertical stroke is 50 mm longer than that of product side.
⑭ *1 When dimension F is 1000 mm.
⑮ *2 When dimension C is 1200 mm.
⑯ *3 When dimension C is 1600 mm.
⑰ *4 When dimension C is 1800 mm.
⑱ *5 When dimension L is 933 mm.

机种 Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
ES-800II	1520 [1760] ^{*1}	1980 [1980] ^{*2}	1400 [1200] ^{*2} [1600] ^{*3} [1800] ^{*4}	250 [250] ^{*2} [270] ^{*3} [270] ^{*4}	330 [530] ^{*2} [270] ^{*3} [330] ^{*4}	800 [1000] ^{*1}	90	320	1170 [1340] ^{*5}	391	—	783 [933] ^{*5}	686 [836] ^{*5}	97	—	—	—
ES-800sII	1560 [1810] ^{*1}	—	—	—	—	—	—	—	—	—	140	—	520 [670] ^{*5}	263	148	520 [670] ^{*5}	115

* 反操作时E值为280、[480]^{*2}、[480]^{*3}、[280]^{*4}
D值为300、[300]^{*2}、[320]^{*3}、[320]^{*4}

* d值正操作时为50、[50]^{*2}、[140]^{*3}、[140]^{*4}
反操作时为70、[70]^{*2}、[160]^{*3}、[160]^{*4}

ES-1000II ES-1000sII



适用射出注塑机 Injection Press Range
250-450 ton

基本参数 | COMMON SPECIFICATIONS

电源 Power Source	常用气压 Air Pressure	驱动方式 Drive System	姿势(气缸) Posture (Air Cylinder)	气动姿势部推力(气压:0.49Mpa时) Air Cylinder Driving Force (Air Pressure at 0.49Mpa)		控制箱 Control Box
				最大可搬重量 Max. Load	姿势力矩 Posture Torque	
AC200V ±10% 50/60Hz(单相) Single Phase	0.49Mpa	AC伺服马达 AC Servo Motor	90° 固定 90° Fixed	5kg (含夹具重量) Incl Chuck Weight	20.2N·m	STEC-NC2a

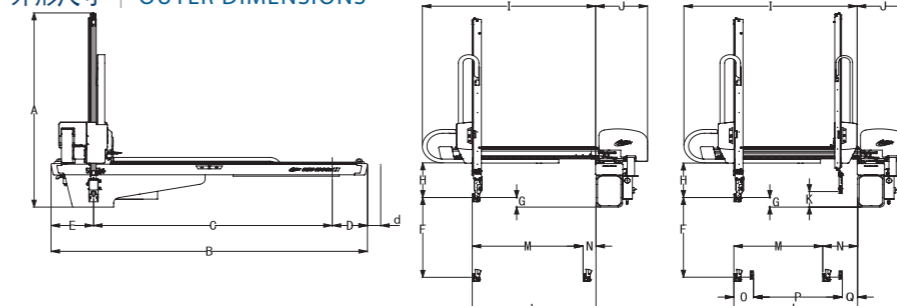
综合参数 | GENERAL SPECIFICATIONS

机种 Model	行程(移动量) (mm) Stroke				电源设备容量 (KVA) Electric Consumption	最大消费电力 (KW) Max Power Consumption	机器重量 (kg) Net Weight		空气消耗量 (N/L/周期) Air Consumption (N/L/Cycle)
	上下 ①Vertical	上下 ②Vertical	前后 Crosswise	走行 Traverse			本体 Main Body	操作盒 Pendant	
ES-1000II	1000	—	97~933	1800 [1600]	1.4	1.1	259.2	1.1	1.40
ES-1000sII	—	1050	① 263~933 ② 115~785	—	2.6	1.7	282.3	—	—

① [] 尺寸表示选项行程。
② 本体重量包括控制箱及电线的重量。
③ ④: 表示制品侧手臂, ⑤: 表示水口侧手臂。
⑥ 将走行行程为1800mm行程的走行体向取出侧移动200mm时, 走行行程变为1600mm。

⑦ Figure in [] shows option stroke.
⑧ Net weight includes the weight of interlock box and driver box.
⑨ In the column of stroke, ① stands for product side arm and ② stands for runner side arm.
⑩ Make the travers as 1800 mm moving forward to extracting side as 200 mm it will be 1600 mm.

外形尺寸 | OUTER DIMENSIONS



① [] 内的尺寸表示选项行程。
② 水口夹的厚度为25mm。
③ 姿势部厚度为69mm, 但根据配管方式不同, 此尺寸多少会有些不同。
④ 水口侧上下行程比制品侧上下行程长50mm。
⑤ *1表示F尺寸为1000mm。
⑥ *2表示C尺寸为1600mm。
⑦ Figure in [] shows option stroke.
⑧ Thickness of runner chuck is basically about 25 mm.
⑨ Thickness of posture area is basically about 69 mm (depends on tubing).
⑩ Runner side vertical stroke is 50 mm longer than that of product side.
⑪ *1 When dimension F is 1000 mm.
⑫ *2 When dimension C is 1600 mm.

机种 Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
ES-1000II	1760	2400 [2400] ^{*2}	1800 [1600] ^{*2}	270 [270] ^{*2}	330 [530] ^{*2}	1000	90	320	1340	391	—	933	836	97	—	—	—
ES-1000sII	1810	—	—	—	—	—	—	—	—	—	140	—	670	263	148	670	115

* 反操作时E值为280、[480]^{*2}
D值为320、[320]^{*2}

* d值正操作时为140、[140]^{*2}
反操作时为160、[160]^{*2}

ES/ESW-II系列规格



ES/ESW-II SERIES SPECIFICATIONS

ES-1200II ES-1200sII



适用射出注塑机 Injection Press Range
350-650 ton

基本参数 | COMMON SPECIFICATIONS

电源 Power Source	常用气压 Air Pressure	驱动方式 Drive System	姿势(气缸) Posture (Air Cylinder)	气动姿势部推力(气压:0.49Mpa时) Air Cylinder Driving Force (Air Pressure at 0.49Mpa)		控制箱 Control Box
				最大可搬重量 Max. Load	姿势力矩 Posture Torque	
AC200V ±10% 50/60Hz(单相) Single Phase	0.49Mpa	AC伺服马达 AC Servo Motor	90° 固定 90° Fixed	10kg (含夹具重量) Incl Chuck Weight	57.8N·m	STEC-NC2a

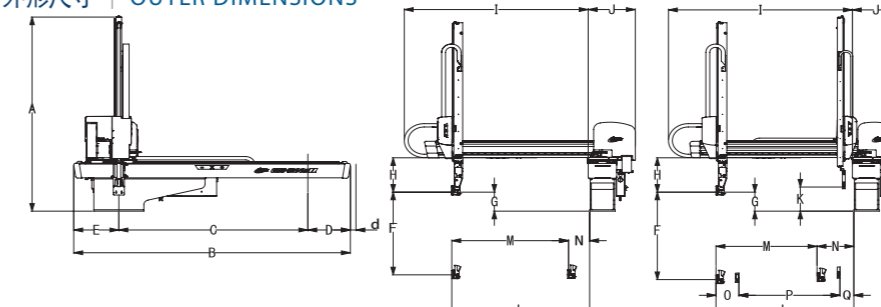
综合参数 | GENERAL SPECIFICATIONS

机种 Model	行程(移动量)(mm) Stroke				电源设备容量 (KVA) Electric Consumption	最大消费电力 (KW) Max Power Consumption	机器重量(kg) Net Weight		空气消耗量 (N/周期) Air Consumption (N/ Cycle)
	上下 ⓐ/Vertical	上下 ⓑ/Vertical	前后 Crosswise	走行 Traverse			本体 Main Body	操作盒 Pendant	
ES-1200II	1200 [1400]	—	140~1240	1800 [1600] [2000] [2200]	2.5	2.0	435	1.1	3.10
ES-1200sII		ⓐ 1250 [1450]	ⓑ 270~1240 ⓓ 78~1048	4.1	2.8	473			

ⓐ [] 尺寸表示选项行程。
ⓑ 本体重量包括控制箱及电缆线的重量。
ⓐ: 表示制品侧手臂, ⓑ: 表示水口侧手臂。
ⓐ将走行行程为1800和2200mm行程的走行体向前取出侧移动200mm时, 走行行程将变为1600和2000mm。

ⓐ Figure in [] shows option stroke.
ⓑ Net weight includes the weight of interlock box and driver box.
ⓐ: In the column of stroke, ⓐ stands for product side arm and ⓑ stands for runner side arm.
ⓐ Make the travers as 1800 and 2200 mm moving forward to extracting side as 200 mm it will be 1600 and 2000 mm.

外形尺寸 | OUTER DIMENSIONS



ⓐ [] 内的尺寸表示选项行程。
ⓑ 水口夹的厚度为25mm。
ⓐ 姿势部厚度为97mm, 但根据配管方式不同, 此尺寸多少会有些不同。
ⓐ 水口侧上下行程比制品侧上下行程长50mm。
ⓐ *1表示F尺寸为1400mm。
ⓐ *2表示C尺寸为1600mm。
ⓐ *3表示C尺寸为2000mm。
ⓐ *4表示C尺寸为2200mm。
ⓐ Figure in [] shows option stroke.
ⓑ Thickness of runner chuck is basically about 25 mm.
ⓐ Thickness of posture area is basically about 97 mm (depends on tubing)
ⓐ Runner side vertical stroke is 50 mm longer than that of product side.
ⓐ *1 When dimension F is 1400 mm.
ⓐ *2 When dimension C is 1600 mm.
ⓐ *3 When dimension C is 2000 mm.
ⓐ *4 When dimension C is 2200 mm.

机种 Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
ES-1200II	2120 [2300] ^{*1}	2500 [2500] ^{*2}	1800 [1600] ^{*2}	295	405 [605] ^{*2}	1200 [1400] ^{*1}	200	354	1660	424	—	1240	1100	140	—	—	—
ES-1200sII	2170 [2350] ^{*1}	2900 [2900] ^{*4}	2000 [2200] ^{*4}		405 [605] ^{*4}	250											

* 反操作时E值为298、[498]²、[498]³、[298]⁴
D值为402

* d值正操作时为70、[70]²、[100]³、[100]⁴
反操作时为45、[45]²、[90]³、[90]⁴

ESW-800II ESW-800sII



适用射出注塑机 Injection Press Range
100-350 ton

基本参数 | COMMON SPECIFICATIONS

电源 Power Source	常用气压 Air Pressure	驱动方式 Drive System	姿势(气缸) Posture (Air Cylinder)	气动姿势部推力(气压:0.49Mpa时) Air Cylinder Driving Force (Air Pressure at 0.49Mpa)		控制箱 Control Box
				最大可搬重量 Max. Load	姿势力矩 Posture Torque	
AC200V ±10% 50/60Hz(单相) Single Phase	0.49Mpa	AC伺服马达 AC Servo Motor	90° 固定 90° Fixed	5kg (含夹具重量) Incl Chuck Weight	12.9N·m [20.2N·m]	STEC-NC2a

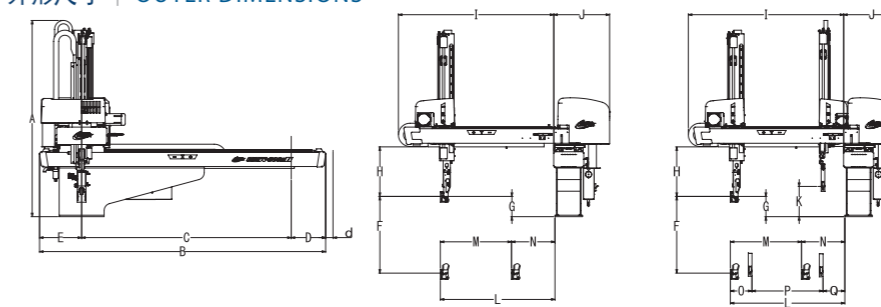
综合参数 | GENERAL SPECIFICATIONS

机种 Model	行程(移动量)(mm) Stroke				电源设备容量 (KVA) Electric Consumption	最大消费电力 (KW) Max Power Consumption	机器重量(kg) Net Weight		空气消耗量 (N/周期) Air Consumption (N/ Cycle)
	上下 ⓐ/Vertical	上下 ⓑ/Vertical	前后 Crosswise	走行 Traverse			本体 Main Body	操作盒 Pendant	
ESW-800II	800 [1000] [1200]	—	139~790 [139~940]	1400 [1200] [1600] [1800]	2.1	1.5	298	1.1	1.80
ESW-800sII		ⓐ 850 [1050] [1250]	ⓑ 295~790 ⓓ 141~636 ⓔ 295~940 ⓕ 141~786	3.3	2.05	325			

ⓐ [] 尺寸表示选项行程。
ⓑ 本体重量包括控制箱及电缆线的重量。
ⓐ: 表示制品侧手臂, ⓑ: 表示水口侧手臂。
ⓐ将走行行程为1400和1800mm行程的走行体向前取出侧移动200mm时, 走行行程将变为1200和1600mm。

ⓐ Figure in [] shows option stroke.
ⓑ Net weight includes the weight of interlock box and driver box.
ⓐ: In the column of stroke, ⓐ stands for product side arm and ⓑ stands for runner side arm.
ⓐ Make the travers as 1400 and 1800 mm moving forward to extracting side as 200 mm it will be 1200 and 1600 mm.

外形尺寸 | OUTER DIMENSIONS



ⓐ [] 内的尺寸表示选项行程。
ⓑ 水口夹的厚度为25mm。
ⓐ 姿势部的厚度为69mm, 但根据配管方式不同, 此尺寸多少会有些不同。
ⓐ 水口侧上下行程比制品侧上下行程长50mm。
ⓐ *1表示F尺寸为1000mm。
ⓐ *2表示F尺寸为1200mm。
ⓐ *3表示C尺寸为1200mm。
ⓐ *4表示C尺寸为1800mm。
ⓐ *5表示C尺寸为1600mm。
ⓐ *6表示L尺寸为940mm。
ⓐ Figure in [] shows option stroke.
ⓑ Thickness of runner chuck is basically about 25 mm.
ⓐ Thickness of posture area is basically about 69 mm (depends on tubing)
ⓐ Runner side vertical stroke is 50 mm longer than that of product side.
ⓐ *1 When dimension F is 1000 mm.
ⓐ *2 When dimension F is 1200 mm.
ⓐ *3 When dimension C is 1200 mm.
ⓐ *4 When dimension C is 1800 mm.
ⓐ *5 When dimension C is 1600 mm.
ⓐ *6 When dimension L is 940 mm.

机种 Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
ESW-800II	1340 [1390] ^{*1} [1550] ^{*2}	1980 [1980] ^{*3}	1400 [1200] ^{*3}	290 [290] ^{*3}	290 [490] ^{*3}	800 [1000] ^{*1} [1200] ^{*2}	140	342	1100 [1260] ^{*5}	388	—	790 [940] ^{*6}	651 [801] ^{*6}	139	—	—	—
ESW-800sII	1400 [1430] ^{*1} [1550] ^{*2}	2400 [2400] ^{*5}	1600 [1600] ^{*5}	310 [310] ^{*5}	490 [490] ^{*5}	495 [645] ^{*6}							295	154	495 [645] ^{*6}	141	

* 反操作时E、D值与正操作时相同

ESW-1000II ESW-1000sII



适用射出注塑机 Injection Press Range
250-450 ton

基本参数 | COMMON SPECIFICATIONS

电源 Power Source	常用气压 Air Pressure	驱动方式 Drive System	姿势(气缸) Posture (Air Cylinder)	气动姿势部推力(气压:0.49Mpa时) Air Cylinder Driving Force (Air Pressure at 0.49Mpa)		控制箱 Control Box
				最大可搬重量 Max. Load	姿势力矩 Posture Torque	
AC200V ±10% 50/60Hz(单相) Single Phase	0.49Mpa	AC伺服马达 AC Servo Motor	90° 固定 90° Fixed	5kg (含夹具重量) Incl Chuck Weight	20.2N·m	STEC-NC2a

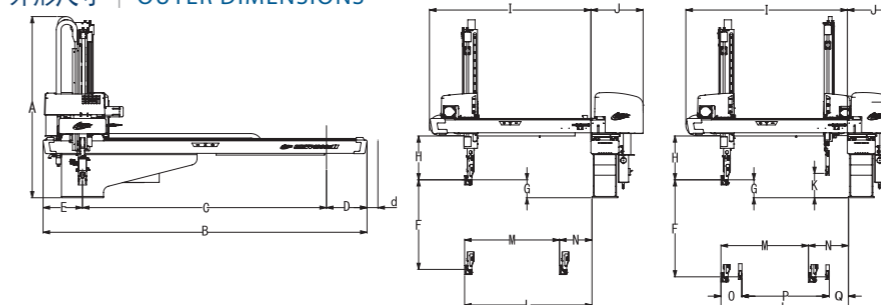
综合参数 | GENERAL SPECIFICATIONS

机种 Model	行程(移动量)(mm) Stroke				电源设备容量 (KVA) Electric Consumption	最大消费电力 (KW) Max Power Consumption	机器重量(kg) Net Weight		空气消耗量 (N/周期) Air Consumption (N/ Cycle)
	上下 ⓐ/Vertical	上下 ⓑ/Vertical	前后 Crosswise	走行 Traverse			本体 Main Body	操作盒 Pendant	
ESW-1000II	1000 [1200]	—	139~940	1800 [1600]	2.1	1.5	324	1.1	1.80
ESW-1000sII		ⓐ 1050 [1250]	ⓑ 295~940 ⓓ 141~786	3.3	2.05	351			

ⓐ [] 尺寸表示选项行程。
ⓑ 本体重量包括控制箱及电缆线的重量。
ⓐ: 表示制品侧手臂, ⓑ: 表示水口侧手臂。
ⓐ将走行行程为1800mm行程的走行体向前取出侧移动200mm时, 走行行程将变为1600mm。

ⓐ Figure in [] shows option stroke.
ⓑ Net weight includes the weight of interlock box and driver box.
ⓐ: In the column of stroke, ⓐ stands for product side arm and ⓑ stands for runner side arm.
ⓐ Make the travers as 1800 mm moving forward to extracting side as 200 mm it will be 1600 mm.

外形尺寸 | OUTER DIMENSIONS



ⓐ [] 内的尺寸表示选项行程。
ⓑ 水口夹的厚度为25mm。
ⓐ 姿势部的厚度为69mm, 但根据配管方式不同, 此尺寸多少会有些不同。
ⓐ 水口侧上下行程比制品侧上下行程长50mm。
ⓐ *1表示F尺寸为1200mm。
ⓐ *2表示C尺寸为1600mm。
ⓐ Figure in [] shows option stroke.
ⓑ Thickness of runner chuck is basically about 25 mm.
ⓐ Thickness of posture area is basically about 69 mm (depends on tubing)
ⓐ Runner side vertical stroke is 50 mm longer than that of product side.
ⓐ *1 When dimension F is 1200 mm.
ⓐ *2 When dimension C is 1600 mm.

机种 Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
ESW-1000II	1390 [1550] ^{*1}	2400 [2400] ^{*2}	1800 [1600] ^{*2}	310 [310] ^{*2}	290 [490] ^{*2}	1000 [1200] ^{*1}	140	342	1260	388	—	940	801	139	—	—	—
ESW-1000sII	1430 [1550] ^{*1}		1600 [1600] ^{*2}	310 [310] ^{*2}	490 [490] ^{*2}	645							295	154	645	141	

* 反操作时E、D值与正操作时相同

* d值正操作时为130、[130]²
反操作时为160、[160]²

ESW-II系列规格



ESW-II SERIES SPECIFICATIONS

ESW-1200II ESW-1200sII



适用射出注塑机 Injection Press Range
350-650 ton

基本参数 | COMMON SPECIFICATIONS

电源 Power Source	常用气压 Air Pressure	驱动方式 Drive System	姿势(气缸) Posture (Air Cylinder)	气动姿势部推力(气压:0.49Mpa时) Air Cylinder Driving Force (Air Pressure at 0.49Mpa)		控制箱 Control Box
				最大可搬重量 Max. Load	姿势力矩 Posture Torque	
AC200V ±10% 50/60Hz(单相) Single Phase	0.49Mpa	AC伺服马达 AC Servo Motor	90° 固定 90° Fixed	10kg (15kg) (含夹具重量) Incl Chuck Weight	57.8N·m	STEC-NC2a

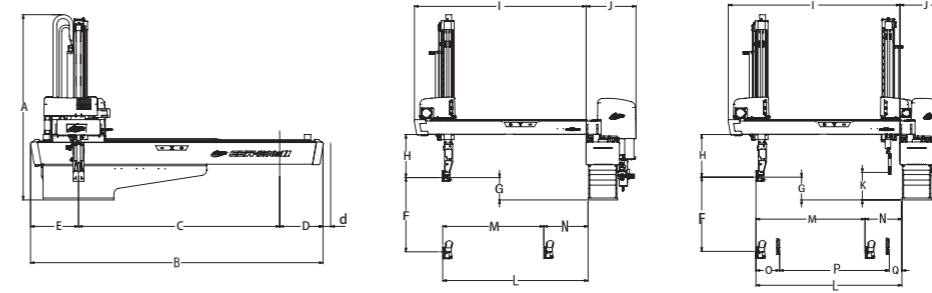
综合参数 | GENERAL SPECIFICATIONS

机种 Model	行程(移动量)(mm) Stroke				电源设备容量 Electric Consumption	最大消费电力 (KW) Max Power Consumption	机器重量 (kg) Net Weight		空气消耗量 (N L/周期) Air Consumption (N L/Cycle)
	上下 Vertical	上下 Vertical	前后 Crosswise	走行 Traverse			本体 Main Body	操作盒 Pendant	
ESW-1200II	1200 [1400] [1700]	—	158~1338 [158~1538]	1800 [1600] [2000] [2200]	2.5	2.0	592	1.1	7.10
ESW-1200sII	—	1250 [1450] [1750]	Ⓟ 328~1338 Ⓡ 97~1107 Ⓢ 328~1538 Ⓣ 97~1307	—	4.1	2.8	636	—	23.31

Ⓢ []内尺寸表示选项行程。
Ⓡ 本体重量包括控制箱及电线的重量。
Ⓢ:表示制品侧手臂, Ⓣ:表示水口侧手臂。
Ⓢ将走行行程为1800和2200mm行程的走行侧向取出侧移动200mm时, 走行行程将变为1600和2000mm。

Ⓢ Figure in [] shows option stroke.
Ⓡ Net weight includes the weight of interlock box and driver box.
Ⓢ In the column of stroke, Ⓢ stands for product side arm and Ⓣ stands for runner side arm.
Ⓢ Make the traves as 1800 and 2200 mm moving forward to extracting side as 200 mm it will be 1600 and 2000 mm.

外形尺寸 | OUTER DIMENSIONS



Ⓢ []内的尺寸表示选项行程。
Ⓡ 水口夹的厚度为25mm。
Ⓢ 姿势部的厚度为97mm, 但根据配管方式不同, 此尺寸多少会有些不同。
Ⓢ 水口侧上下行程比制品侧上下行程长50mm。
Ⓢ *1表示F尺寸为1400mm, *2表示F尺寸为1700mm,
Ⓢ *3表示C尺寸为1600mm, *4表示C尺寸为2200mm,
Ⓢ *5表示C尺寸为2000mm, *6表示L尺寸为1538mm。

Ⓢ Figure in [] shows option stroke.
Ⓡ Thickness of runner chuck is basically about 25 mm.
Ⓢ Thickness of posture area is basically about 97 mm (depends on tubing)
Ⓢ Runner side vertical stroke is 50 mm longer than that of product side.
Ⓢ *1 When dimension F is 1400 mm. *2 When dimension F is 1700 mm.
Ⓢ *3 When dimension C is 1600 mm. *4 When dimension C is 2200 mm.
Ⓢ *5 When dimension C is 2000 mm. *6 When dimension L is 1538 mm.

机种 Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
ESW-1200II	1720 [1770] ^{*1} [1990] ^{*2}	2680 [2680] ^{*3}	1800 [1600] ^{*3} [2200] ^{*4}	430	450 [650] ^{*3} [450] ^{*4} [650] ^{*5}	1200 [1400] ^{*1} [1700] ^{*2}	200	395	1590 [1850] ^{*6}	450	—	1338 [1538] ^{*6}	1180 [1380] ^{*6}	158	—	—	—
ESW-1200sII	—	—	—	—	—	—	—	—	—	—	250	—	1010 [1210] ^{*6}	328	229	1010 [1210] ^{*6}	99

* 反操作时E、D值与正操作时相同

* d值正操作时为0、[0]³、[30]⁴、[30]⁵
反操作时为0、[0]³、[0]⁴、[0]⁵

ESW-1700II ESW-1700sII



适用射出注塑机 Injection Press Range
650-1600 ton

基本参数 | COMMON SPECIFICATIONS

电源 Power Source	常用气压 Air Pressure	驱动方式 Drive System	姿势(气缸) Posture (Air Cylinder)	气动姿势部推力(气压:0.49Mpa时) Air Cylinder Driving Force (Air Pressure at 0.49Mpa)		控制箱 Control Box
				最大可搬重量 Max. Load	姿势力矩 Posture Torque	
AC200V ±10% 50/60Hz(三相) 3 Phase	0.49Mpa	AC伺服马达 AC Servo Motor	90° 固定 90° Fixed	25kg (35kg) (含夹具重量) Incl Chuck Weight	88N·m	STEC-NC2a

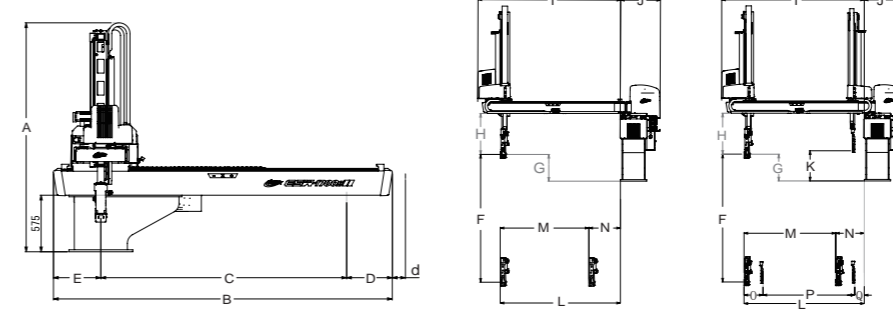
综合参数 | GENERAL SPECIFICATIONS

机种 Model	行程(移动量)(mm) Stroke				电源设备容量 (KVA) Electric Consumption	最大消费电力 (KW) Max Power Consumption	机器重量 (kg) Net Weight		空气消耗量 (N L/周期) Air Consumption (N L/Cycle)
	上下 Vertical	上下 Vertical	前后 Crosswise	走行 Traverse			本体 Main Body	操作盒 Pendant	
ESW-1700II	1700 [2000] [2300]	—	164~1600 [164~1900]	2500 [2000] [3000]	4.0	2.8	852	1.1	20.73
ESW-1700sII	—	1750 [2050] [2350]	Ⓟ 375~1600 Ⓡ 127~1352 Ⓢ 375~1900 Ⓣ 127~1652	—	6.3	3.9	935	—	37.79

Ⓢ []尺寸表示选项行程。
Ⓡ 本体重量包括控制箱及电线的重量。
Ⓢ:表示制品侧手臂, Ⓣ:表示水口侧手臂。
Ⓢ ()内的数值表示姿势强化型。

Ⓢ Figure in [] shows option stroke.
Ⓡ Net weight includes the weight of interlock box and driver box.
Ⓢ In the column of stroke, Ⓢ stands for product side arm and Ⓣ stands for runner side arm.
Ⓢ () is for posture reinforcement type.

外形尺寸 | OUTER DIMENSIONS



Ⓢ []内的尺寸表示选项行程。
Ⓡ 水口夹的厚度为30mm。
Ⓢ 姿势部厚度为115mm, 但根据配管方式不同, 此尺寸多少会有些不同。
Ⓢ 水口侧上下行程比制品侧上下行程长50mm。
Ⓢ *1表示F尺寸为2000mm, *2表示F尺寸为2300mm,
Ⓢ *3表示C尺寸为2000mm, *4表示C尺寸为3000mm,
Ⓢ *5表示L尺寸为1900mm。

Ⓢ Figure in [] shows option stroke.
Ⓡ Thickness of runner chuck is basically about 30 mm.
Ⓢ Thickness of posture area is basically about 115 mm (depends on tubing)
Ⓢ Runner side vertical stroke is 50 mm longer than that of product side.
Ⓢ *1 When dimension F is 2000 mm. *2 When dimension F is 2300 mm.
Ⓢ *3 When dimension C is 2000 mm. *4 When dimension C is 3000 mm.
Ⓢ *5 When dimension L is 1900 mm.

机种 Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
ESW-1700II	2290 [2440] ^{*1} [2590] ^{*2}	3450 [2990] ^{*3}	2500 [2000] ^{*3} [3000] ^{*4}	464 [504] ^{*3} [524] ^{*4}	486	1700 [2000] ^{*1} [2300] ^{*2}	350	550	1910 [2210] ^{*5}	527	—	1600 [1900] ^{*5}	1436 [1736] ^{*5}	164	—	—	—
ESW-1700sII	—	—	—	—	—	—	—	—	—	—	400	—	1225 [1525] ^{*5}	375	248	1225 [1525] ^{*5}	127

* 反操作时E、D值与正操作时相同

* d值正操作时为0、[0]³、[0]⁴
反操作时为0、[0]³、[0]⁴

ESW-2000II



适用射出注塑机 Injection Press Range
1600-3000 ton

基本参数 | COMMON SPECIFICATIONS

电源 Power Source	常用气压 Air Pressure	驱动方式 Drive System	姿势(气缸) Posture (Air Cylinder)	气动姿势部推力(气压:0.49Mpa时) Air Cylinder Driving Force (Air Pressure at 0.49Mpa)		控制箱 Control Box
				最大可搬重量 Max. Load	姿势力矩 Posture Torque	
AC200V ±10% 50/60Hz(三相) 3 Phase	0.49Mpa	AC伺服马达 AC Servo Motor	90° 固定 90° Fixed	40kg (含夹具重量) Incl Chuck Weight	177.8N·m	STEC-NC2a

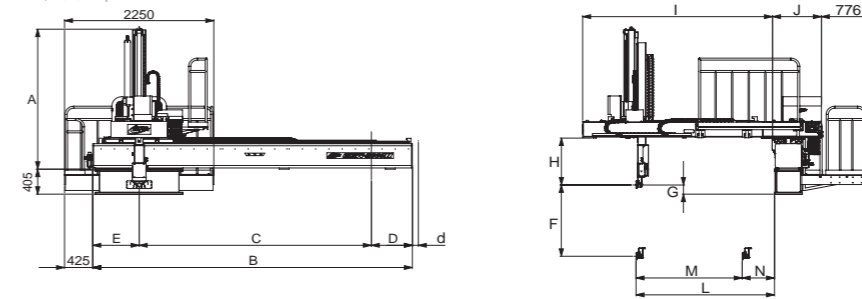
综合参数 | GENERAL SPECIFICATIONS

机种 Model	行程(移动量)(mm) Stroke				电源设备容量 (KVA) Electric Consumption	最大消费电力 (KW) Max Power Consumption	机器重量 (kg) Net Weight		空气消耗量 (N L/周期) Air Consumption (N L/Cycle)
	上下 Vertical	上下 Vertical	前后 Crosswise	走行 Traverse			本体 Main Body	操作盒 Pendant	
ESW-2000II	2000 [2500] [3200]	—	515~2115 [515~2515]	3500 [4000] [4500]	10	5.1	2761.4	1.1	85.56

Ⓢ []尺寸表示选项行程。
Ⓡ 本体重量包括控制箱及电线的重量。
Ⓢ:表示制品侧手臂, Ⓣ:表示水口侧手臂。
Ⓢ ()内的数值表示姿势强化型。

Ⓢ Figure in [] shows option stroke.
Ⓡ Net weight includes the weight of interlock box and driver box.
Ⓢ In the column of stroke, Ⓢ stands for product side arm and Ⓣ stands for runner side arm.
Ⓢ () is for posture reinforcement type.

外形尺寸 | OUTER DIMENSIONS



Ⓢ []内的尺寸表示选项行程。
Ⓡ 姿势部厚度为140mm, 但根据配管方式不同, 此尺寸多少会有些不同。
Ⓢ *1表示F尺寸为2500mm, *2表示F尺寸为3200mm,
Ⓢ *3表示C尺寸为4000mm, *4表示C尺寸为4500mm,
Ⓢ *5表示M尺寸MAX为2000mm。

Ⓢ Figure in [] shows option stroke.
Ⓡ Thickness of posture area is basically about 140mm (depends on tubing)
Ⓢ *1 When dimension F is 2500 mm. *2 When dimension F is 3200 mm.
Ⓢ *3 When dimension C is 4000 mm. *4 When dimension C is 4500 mm.
Ⓢ *5 When dimension M is max 2000 mm.

机种 Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
ESW-2000II	2260 [2500] ^{*1} [2860] ^{*2}	4820 [5320] ^{*3} [5820] ^{*4}	3500 [4000] ^{*3} [4500] ^{*4}	620	700	2000 [2500] ^{*1} [3200] ^{*2}	149	760	2862 [3222] ^{*5}	737	—	2088 [2488] ^{*5}	1600 [2000] ^{*5}	488	—	—	—

* 反操作时E、D值与正操作时相同

* d值正操作时为82、[82]³、[82]⁴
反操作时为0、[0]³、[0]⁴

ES/ESW-IIH系列规格



ES/ESW-IIH SERIES SPECIFICATIONS

ES-800IIH



适用射出注塑机 Injection Press Range
100-350 ton

基本参数 | COMMON SPECIFICATIONS

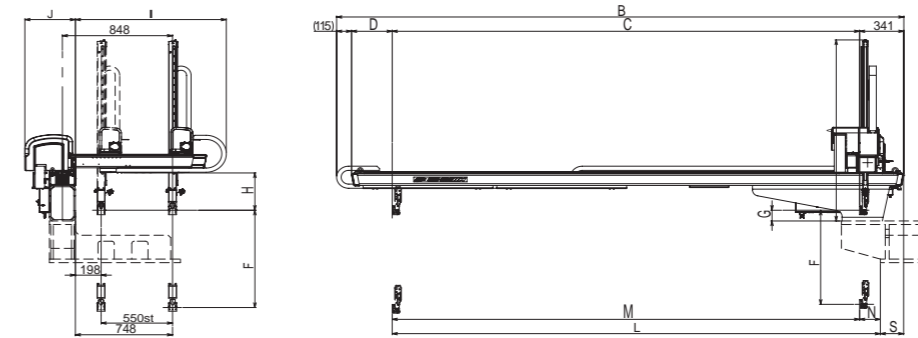
电源 Power Source	常用气压 Air Pressure	驱动方式 Drive System	姿势(气缸) Posture (Air Cylinder)	气动姿势部推力(气压:0.49Mpa时) Air Cylinder Driving Force (Air Pressure at 0.49Mpa)		控制箱 Control Box
				最大可搬重量 Max. Load	姿势力矩 Posture Torque	
AC200V ±10% 50/60Hz (单相) Single Phase	0.49Mpa	AC伺服马达 AC Servo Motor	90° 固定 90° Fixed	5kg (含夹具重量) Incl Chuck Weight	12.9N·m	STEC-NC2a

综合参数 | GENERAL SPECIFICATIONS

机种 Model	行程(移动量) (mm) Stroke				电源设备容量 Electric Consumption	最大消费电力 (KW) Max Power Consumption	机器重量 (kg) Net Weight		空气消耗量 (N L/周期) Air Consumption (N L/Cycle)
	上下 Ⓢ Vertical	上下 Ⓣ Vertical	前后 Crosswise	走行 Traverse			本体 Main Body	操作盒 Pendant	
ES-800IIH	800 [1000]	—	198~748	3600	2	1.1	355	1.1	1.4

Ⓢ []内的尺寸表示选项行程。
Ⓣ 本体重量包括控制箱及电线的重量。
Ⓢ:表示制品侧手臂, Ⓣ:表示水口侧手臂。
Ⓢ Figure in [] shows option stroke.
Ⓣ Net weight includes the weight of interlock box and driver box.
Ⓢ In the column of stroke, Ⓢ stands for product side arm and Ⓣ stands for runner side arm.

外形尺寸 | OUTER DIMENSIONS



Ⓢ []内的尺寸表示选项行程。
Ⓣ 姿势部的厚度为69mm, 但根据配管方式不同, 此尺寸多少会有些不同。
Ⓢ*1表示制品上下行程为1000mm。
Ⓢ Figure in [] shows option stroke.
Ⓣ Thickness of posture area is basically about 69 mm (depends on tubing)
Ⓢ*1 for product side vertical stroke 1000 mm.

机种 Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
ES-800IIH	1519 [1760]*1	4254	3600	313	—	800 [1000]*1	90	313	1163	389	—	3695	3600	95	—	—	—

ESW-1200IIH



适用射出注塑机 Injection Press Range
350-650 ton

基本参数 | COMMON SPECIFICATIONS

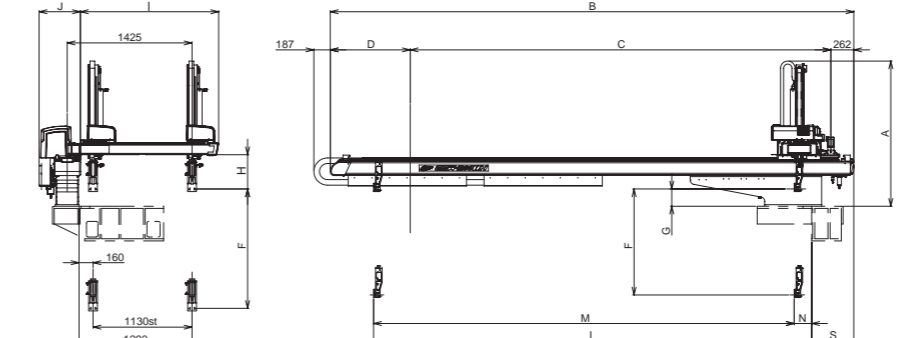
电源 Power Source	常用气压 Air Pressure	驱动方式 Drive System	姿势(气缸) Posture (Air Cylinder)	气动姿势部推力(气压:0.49Mpa时) Air Cylinder Driving Force (Air Pressure at 0.49Mpa)		控制箱 Control Box
				最大可搬重量 Max. Load	姿势力矩 Posture Torque	
AC200V ±10% 50/60Hz (单相) Single Phase	0.49Mpa	AC伺服马达 AC Servo Motor	90° 固定 90° Fixed	10kg (15kg) (含夹具重量) Incl Chuck Weight	57.8N·m	STEC-NC2a

综合参数 | GENERAL SPECIFICATIONS

机种 Model	行程(移动量) (mm) Stroke				电源设备容量 (KVA) Electric Consumption	最大消费电力 (KW) Max Power Consumption	机器重量 (kg) Net Weight		空气消耗量 (N L/周期) Air Consumption (N L/Cycle)
	上下 Ⓢ Vertical	上下 Ⓣ Vertical	前后 Crosswise	走行 Traverse			本体 Main Body	操作盒 Pendant	
ESW-1200IIH	1200 [1400] [1700]	—	160~1290	4800	3.8	2	992	1.1	7.1

Ⓢ []内的尺寸表示选项行程。
Ⓣ 本体重量包括控制箱及电线的重量。
Ⓢ:表示制品侧手臂, Ⓣ:表示水口侧手臂。
Ⓢ Figure in [] shows option stroke.
Ⓣ Net weight includes the weight of interlock box and driver box.
Ⓢ In the column of stroke, Ⓢ stands for product side arm and Ⓣ stands for runner side arm.

外形尺寸 | OUTER DIMENSIONS



Ⓢ []内的尺寸表示选项行程。
Ⓣ 姿势部的厚度为97mm, 但根据配管方式不同, 此尺寸多少会有些不同。
Ⓢ*1表示制品上下行程为1400mm。
Ⓢ*2表示制品上下行程为1700mm。
Ⓢ Figure in [] shows option stroke.
Ⓣ Thickness of posture area is basically about 97 mm (depends on tubing)
Ⓢ*1 for product side vertical stroke 1400 mm.
Ⓢ*2 for product side vertical stroke 1700 mm.

机种 Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
ESW-1200IIH	1685 [1785]*1 [1935]*2	5975	4800	913	—	1200 [1400]*1 [1700]*2	200	396	1579	471	—	5000	4800	200	—	—	—

ES-II / ESW-II

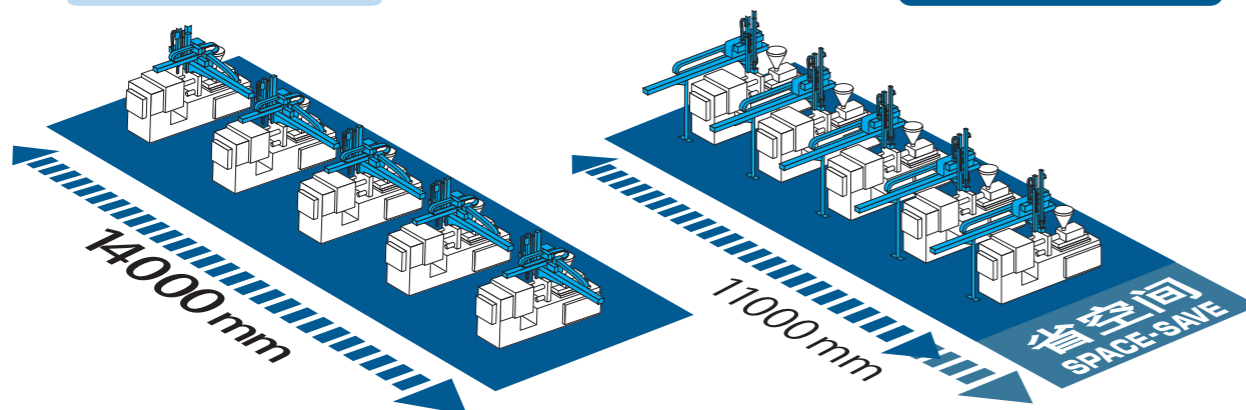
横走型
Standard Traverse Type

节省20%以上 空间!

Uses 20% Less Space

ES-IIH / ESW-IIH

纵走型
Parallel Traverse Type



详情请向最近的STAR精机营业点咨询。
For more details, please contact a local Star Seiki Co., Ltd Sales Office.

● 注塑机对应表 Lineup

锁模力 (ton)	0	50	100	150	200	250	300	350	400	450	500	550	600	650
Small-Sized IMM 小型注塑机用 for 40-350ton			ES-650IIH											
Medium-Sized IMM 中型注塑机用 for 350-650ton														ESW-1200IIH



eins夹具介绍 About eins Chuck

eins 通过开发轻巧的夹具支持环保节能事业。
Development of lightweight chuck plates will promote environmentally friendly business and energy saving.

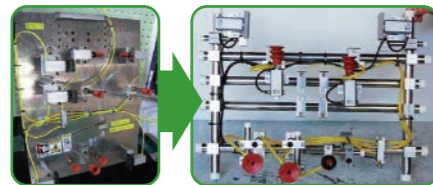


导入3种最新的框架系统!
Three new types of frame systems!

具有重量轻、刚性强特点的框架系列 Lightweight frame system with high rigidity

eins 夹具具有3款框架。作为小件成形品、大型成形品及板金等金属产品上使用的夹具框架在FA领域的轻量化上做出贡献。

There are three types of eins chuck plates. Chuck frame for small products, large products, metal plate, metal goods allows weight reduction for efficient FA operation.



总重量: 6.5kg
Total weight: 6.5 kg

总重量: 3.7kg
Total weight: 3.7 kg



超轻量·自由组装
立体框架钢管系列
(小·中型用)

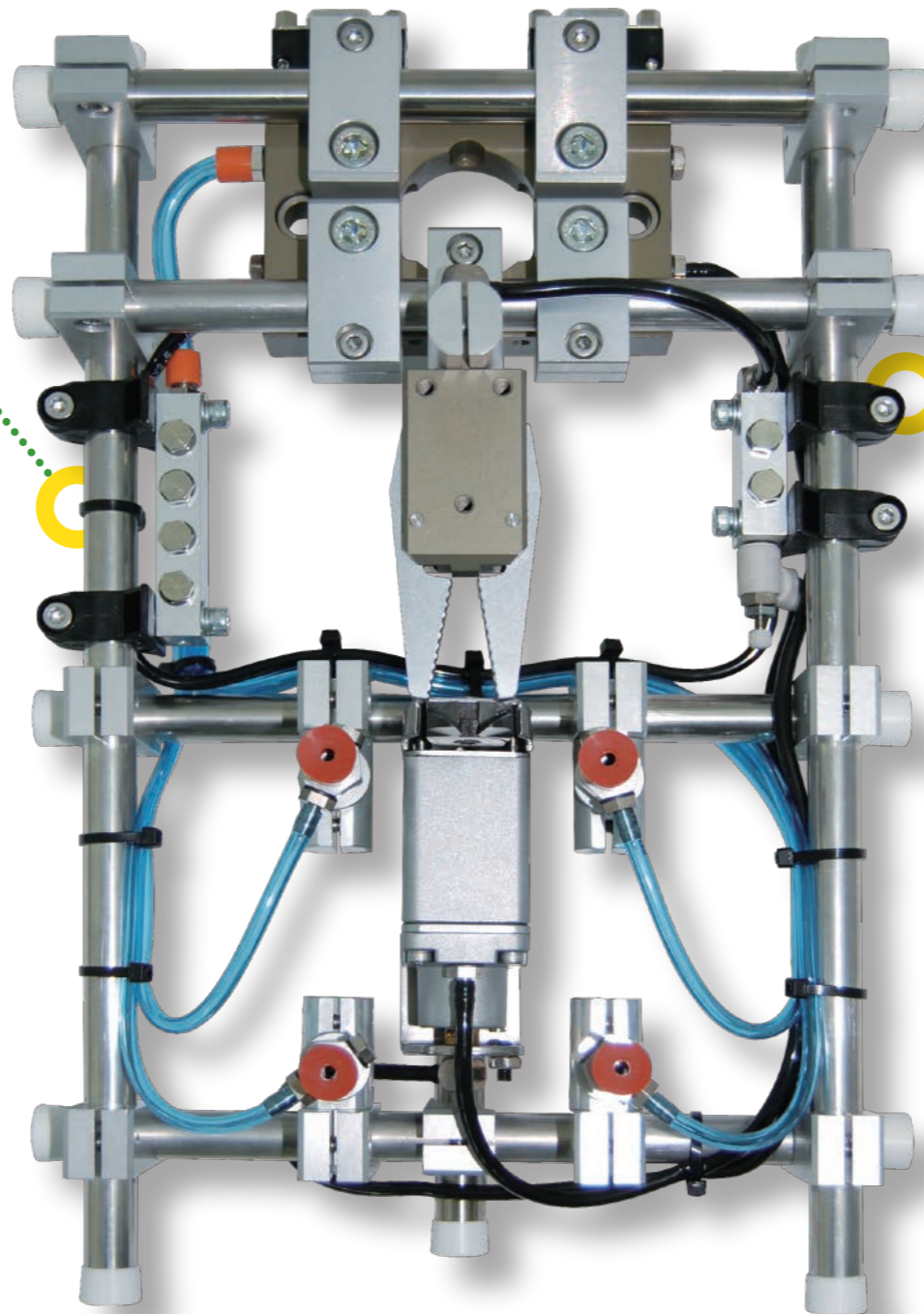
Ultralightweight/combination-type
Jungle-gym Series
(for small/medium size)

重量轻·刚性强
立体框架SUS系列
(大型·超大型·金属产品用)

Lightweight/rigid type
Let's SUS Series
(for large/ultralarge size/metal goods)

重量轻·自由组装
立体框架型材系列
(中·大型用)

Lightweight/combination-free type
Let's Joint Series
(for medium/large size)



多种多样的产品取出请让我们值得信赖的商品为您解决吧!
Proven techniques for extraction of various products!

高品质且种类丰富的eins部品 High-quality and abundant eins Parts

eins 准备了使用方便的高品质夹具部品。可凭借构思，制造出节省客户时间和成本的付附加值非常高的夹具。

User-friendly and fine-quality chuck parts.
Now the only limit to time and cost reduction is your own imagination.

夹具交换
Chuck Exchange



抓取
Grip



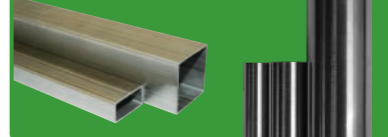
吸着
Suction



剪切
Cut



框架
Frame



配管·传感器
Tubing/Sensors



钢板部品
Steel-sheet Tool



模组
Module



※eins商品详情请向此目录背面的营业点咨询。
Regarding details of eins product, please contact to our eins sales on back page.

凭借构思用于多种用途!
可用于多种取出机械手
Increasing range of uses on your idea!
Used extensively in various robots.

eins 夹具不仅可以对应「本公司制造的横走式机械手」,也可对应「多关节式机械手」和「其它公司制造的机械手」。eins 部品不论何种对象机械手及产品,都可广泛运用于制造现场。
※对应机种的详情,欢迎来电咨询。

eins chuck which can be used for traverse-type robot for our company, jointed-arm robot, and robots of other company improves customers' craftsmanship in robots and products.

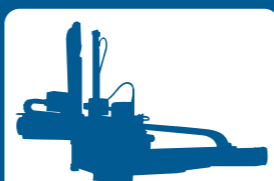
*Please contact our office for more details about the robots which can be used for our products.



本公司制造的横走式机械手
Traverse-type Robot of Our Company



多关节机械手
Jointed-arm Robot



其它公司制造的机械手
Robots of Other Companies

汽车相关	家电产品相关	OA·通信相关
精密产品相关	制药·医疗相关	食品相关
Automobile	Home electrical appliances	Office automation/communication
Precision instrument	Medicine/medical	Food

高速取出请交给我们专业的夹具设计团队吧!
Please leave advanced extraction to our skilled design engineer!

支持eins夹具3D CAD设计 3D CAD design support for eins Chuck



员工熟练使用3DCAD设计

- ◎超过5,000件设计实绩
- ◎2D确认不了的部位,可通过多角度确认
- ◎快速设计高性能夹具
- ◎只要有设计图,客户能够自行组装
- ◎5,000 or more of design experiences
- ◎More extensive inspections are possible compared with 2D design.
- ◎Quick designs for high-performance chuck plates
- ◎Customers can assemble chuck plates with a design drawing.

服务流程
Service Flow

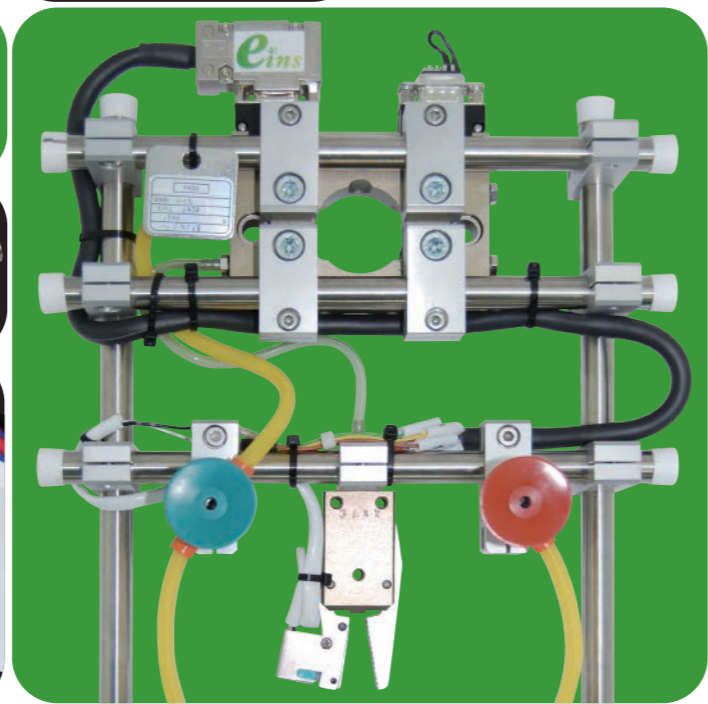
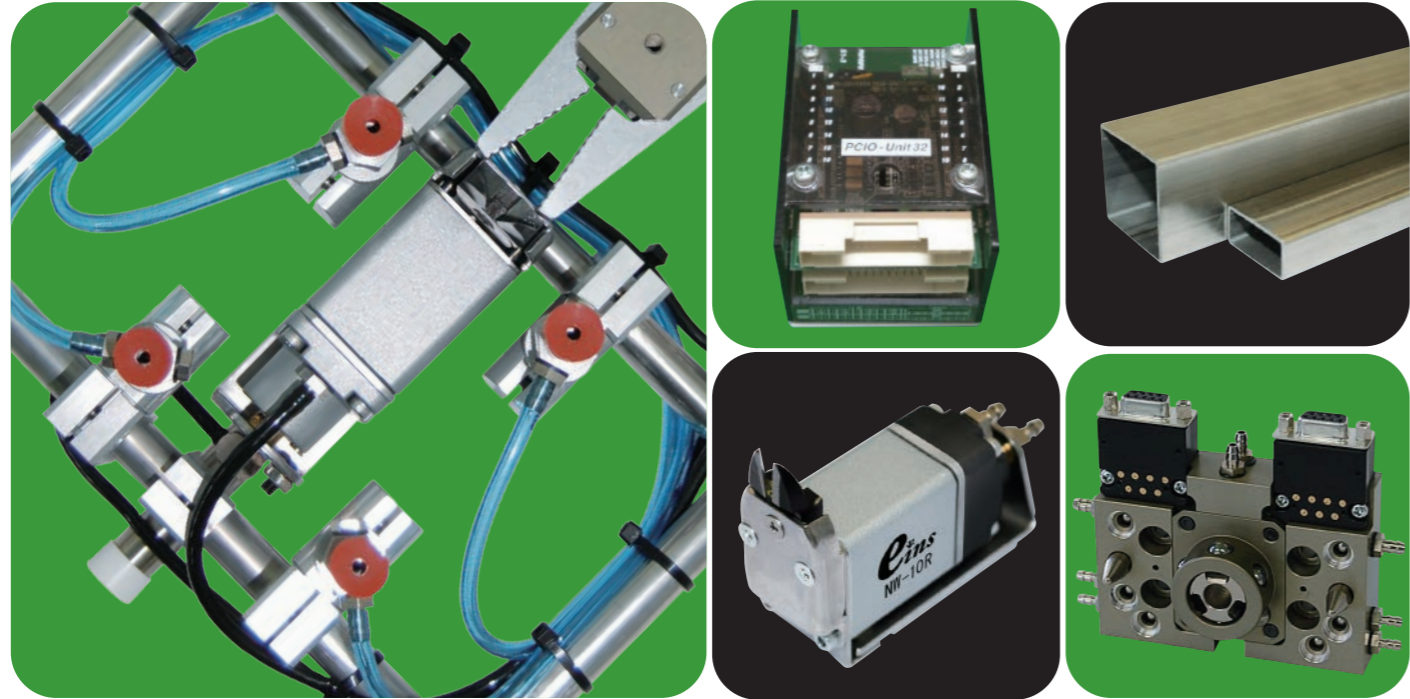
依赖给STAR精机的营业担当
Request to sales staff of Star Seiki

营业担当拜访、探讨
Consultation with sales staff

根据eins设计
Design
作成3D图纸、报价单
以PDF形式E-mail联络
Send PDF
3D drawing and
quotation via e-mail.

eins 夹具完成!
eins Chuck Completed

※此服务仅限于使用eins部品的3D设计。
*Limited to 3D design with eins parts.



关于 **Eins** 详情请向最近的STAR营业点咨询
For more information, contact the sales office or distributor nearest you.

新品陆续上市! New parts arrived! 机械手夹具零部件产品群 Group of robot chuck parts

真挚的聆听来自现场的声音，持续开发丰富多样的eins夹具部品群。
并且，力争易使用、高性能的新产品陆续上市!
Chuck parts continuously upgraded at the request for products. New user-friendly and high-performance products that spring up in rapid succession!

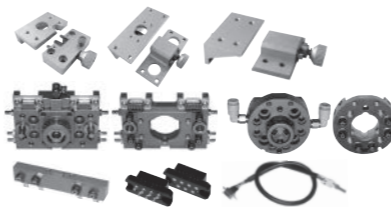
框架系列 Frame System

- ▶ 立体框架钢管系列
- ▶ 立体框架SUS系列
- ▶ 立体框架型材系列

- ▶ Jungle Gym
- ▶ Let's SUS
- ▶ Let's Joint

夹具交换 Chuck Exchange

- ▶ 快速交换用配件 手动·自动
- ▶ Quick Chuck Change Manual·Automatic



抓取 Grip

- ▶ 微型气缸
- ▶ Mini Cylinder



- ▶ 矩形气缸
- ▶ Container Cylinder



- ▶ 机能夹具
- ▶ Functional Chuck



- ▶ 配件部品
- ▶ Accessories



吸着 Suction

- ▶ 吸盘
- ▶ Suction Cup



- ▶ 吸着部品
- ▶ Suction Stem



- ▶ 真空产生器/过滤器确认阀
- ▶ Ejector/Filter Check Valve

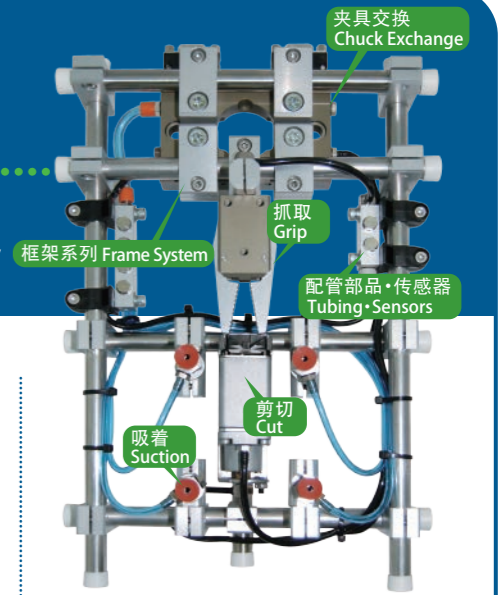


剪切 Cut

- ▶ 微型气剪
- ▶ Mini Air Nipper

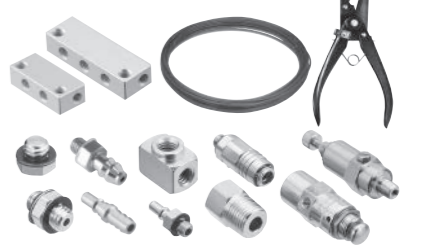


- ▶ 气剪
- ▶ Air Nipper

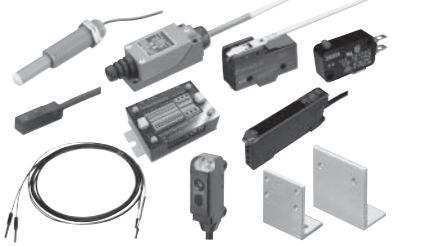


配管部品·传感器 Tubing·Sensors

- ▶ 配管部品
- ▶ Tubing



- ▶ 产品确认用传感器
- ▶ Sensor



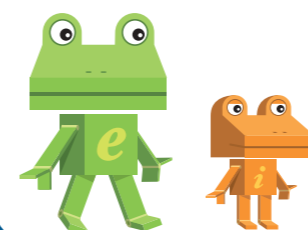
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Contact: Please access our Web site or contact the sales office or distributor nearest you.

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星塔机械(深圳)有限公司
广东省深圳市宝安区沙井镇博岗松山西路6号
TEL: 0755-27246653 FAX: 0755-27246650
销售直线: 0755-27246800

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