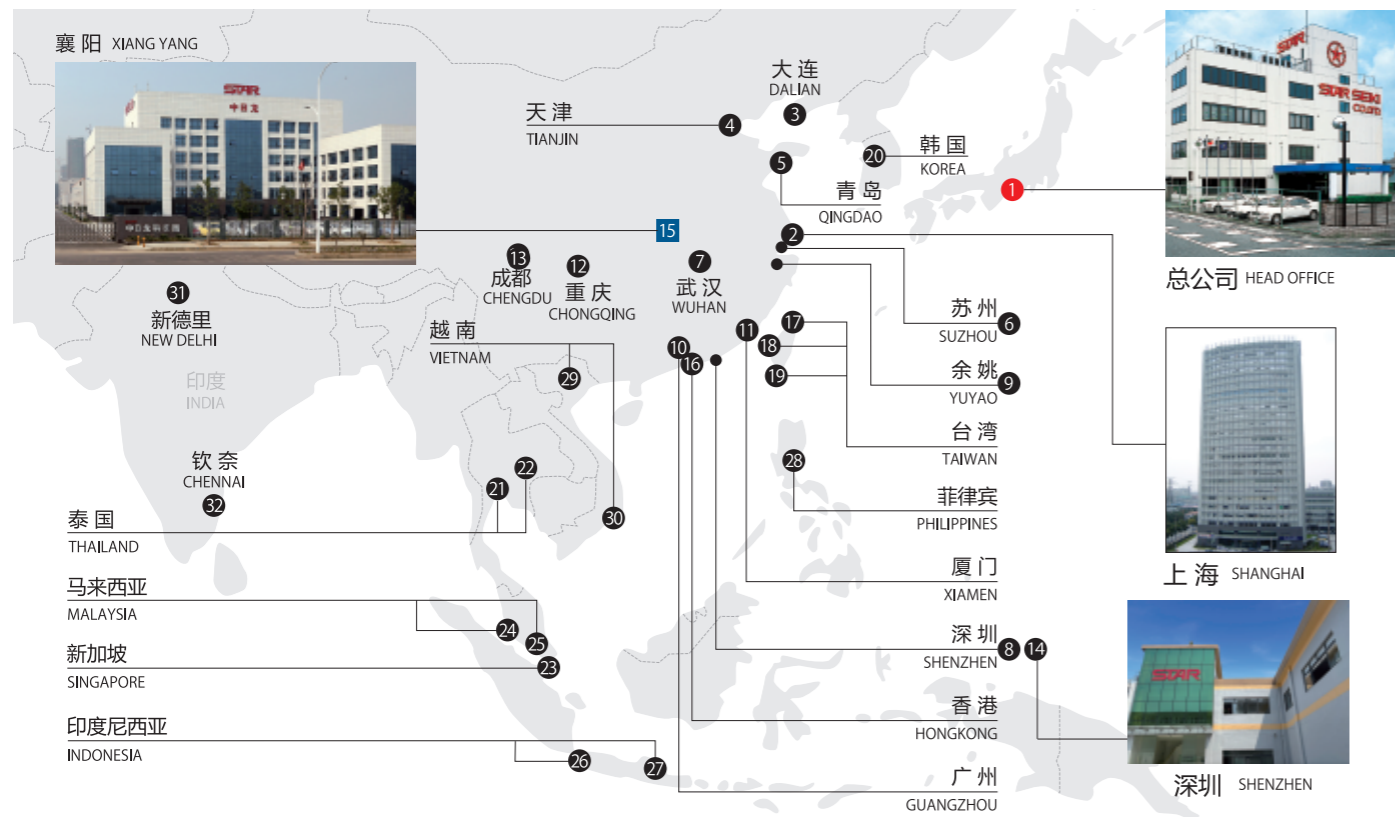
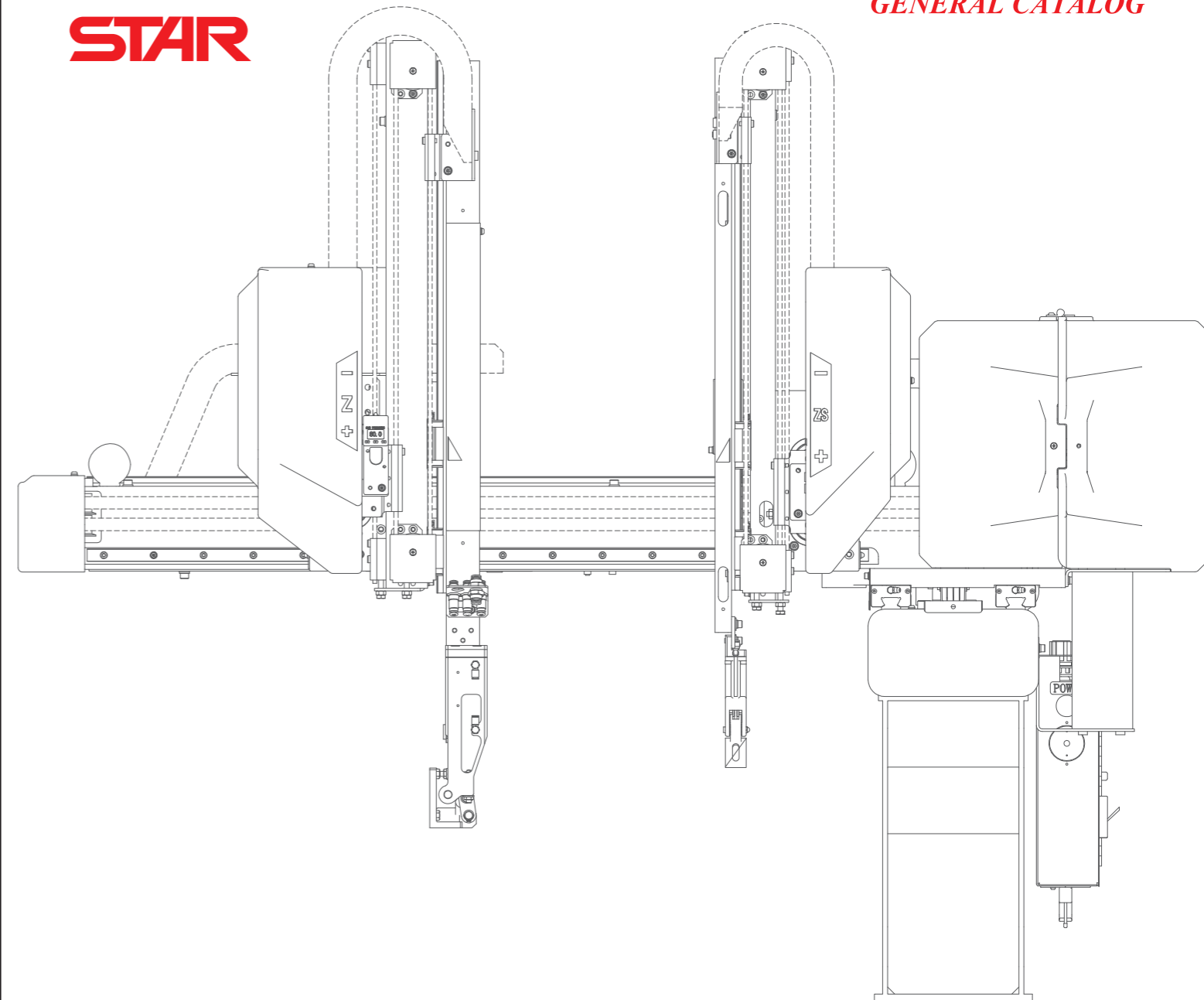


STAR



STAR ASIA NETWORK

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ES-IV SERIES



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Quality First

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All stated here is subject to change without advance notice.

1

高速度 HIGH-SPEED

升级为ES-IV之后全周期及取出周期都有大幅度缩短。不仅能满足之前的常用需求，也能对应客户的高速，高精度要求。

The full cycle and extraction cycle are significantly shortened after upgrading to ES-IV. Not only can meet the common needs as before, but also can correspond to high-speed and high-precision requirements of customers.



3

高性能 HIGH-PERFORMANCE

在STEC-NC2的基础上大幅度提高了性能，能进行各种各样的设定。FULL CNC全编程功能也更加方便使用，与之前比能更加简单地做成程序及进行设定。

On the basis of STEC-NC2, the performance is greatly improved and a wide variety of settings can be made. The FULL CNC programming function is also more convenient, making it easier to program and set than before.

2

高精度 HIGH-PRECISION

通过姿势部振幅的控制，对插件成型等需要高精度取出的成型非常有效。STAR不只是速度，精度方面也能保证客户放心使用。

The amplitude control of the posture unit is very effective for insert molding, which requires high-precision extraction. STAR can be guaranteed in speed and precision, so customers can rest assured to use it.

4

高效率 HIGH-EFFICIENCY

通过生产管理和维护保养机能，实时掌握生产状态，提高设备运转率。定期提示保养与维护，延长机器寿命。生产信息置于主画面中，方便客户实时查看机器状态。统一按键布局，减少客户操作。

Through the production management and maintenance function, customers can real-time control the production status and improve operation rate. Prompt customer maintenance regularly to prolong the service life of the machine. Production information is displayed on the main screen for customers to real-time view the machine status. Unified layout of keyboard to reduce customer operations.

STEC-NC2c



◆ 优点 ADVANTAGE

- ◎ 加强型挂钩，结构独立，提高防水效果；
Improvement in waterproof effect with enhanced hook and independent structure;
- ◎ 接线出口位置改善，避免断线及接触操作人员身体；
Change of cable outlet position to avoid wire breaking and interference with operators;
- ◎ 护角采用嵌入式设计，更加牢固且耐用；
More durable embedded angel design;
- ◎ 整体肉厚增加，提高强度。
Improvement in strength by increasing overall thickness.

FORWARD TIME 功能 / FORWARD TIME FUNCTION



通过追加程序预判 (Forward Time) 功能，可以削减动作之间的时间。在插件等多点动作的程序中充分发挥效力。

It is possible to cut down the time between actions by adding Forward Time ,which is fully effective in insert and other programs with many action points.

此功能可以在操作盒的轴参数设定画面进行设定。设定范围为1~25，即4ms~100ms
※标准设定为10 (40ms)。
客户可以根据取出机的实际运转状况设定Forward time，以达到取出机的最佳运行状态

This function can be set in the axis parameter setting screen of the pendant.The value range is 1 to 25, that is 4~100ms.

※The standard setting is 10(40ms).
The customer can set Forward time according to the actual operation of the robot to achieve the best running state.

FULL NC编程 / FULL NC PROGRAMMING

	FullINC无模式 Full NC W/O MODE	FullINC有模式 Full NC WITH MODE
客户程序编程难易度 Program editing difficulty	客户只需要按实际动作流程编写程序 The customer only needs to edit the program according to the actual action flow	客户需要考虑各模式的动作流程，然后再编写程序，否则与实际动作不符 The customer needs to confirm the action flow of each mode, and then edit the program, otherwise it is inconsistent with the actual action
客户程序标签使用数 Program tags usage number	4	48
客户子程序跳转使用次数 Subroutine jumps usage number	13	77
特殊Memory使用数 Special Memory usage number	7	14

无模式
W/O MODE



程序改造简单，但无标准模式供选择，客户需根据自身需求作成程序。

Program transformation is simple, but there is no standard mode for choice, customers need to make the program according to their own needs.

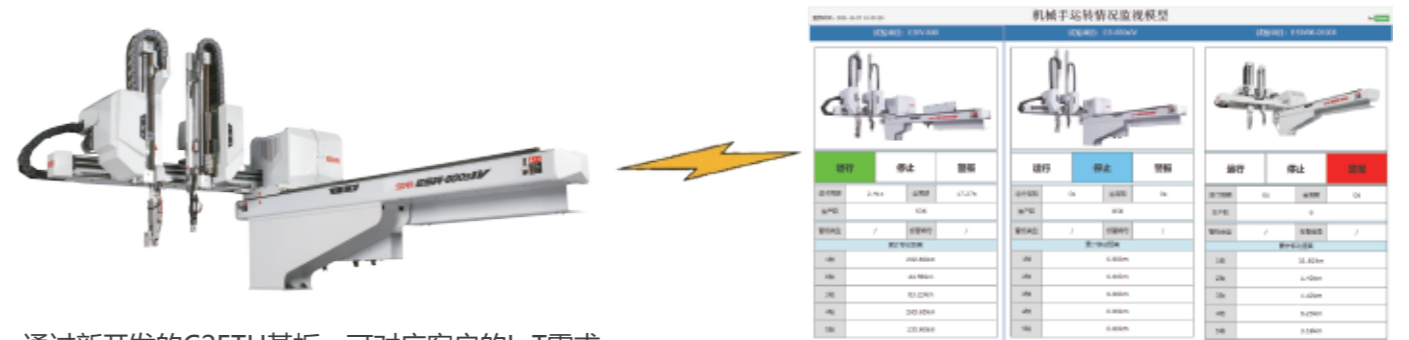
有模式
W/ MODE



程序改造相对困难，但有多种标准模式可选，能够快速对应基本的生产需求。

Program transformation is relatively difficult, but there are a variety of standard modes for choice, which can quickly respond to basic production needs.

IoT /IoT FUNCTION



通过新开发的C2ETH基板，可对应客户的IoT需求，将取出机稼动数据上传至客户端。

选项对应时，只需将稼动数据输出仕样告知客户，由客户自行采集数据进行显示。

With the newly developed C2ETH board, it can upload the operation data of the robot to the client according to the customer's IoT requirements. When corresponding options, just need to inform the customer dynamic data output , and the data will be collected by customer themselves for display.



可利用手机扫描操作盒维护保养菜单中的二维码，连接登录敝司技术支持专用网站，网站上有关于机械手的说明、维护、操作等资料。

You can use the mobile phone scanning pendant maintenance menu QR code to connect the Technical Support website, which publishes instructions, maintenance, operation and other information about the robot.

操作 / OPERATION



将段更换的保存与读取权限进行分开管理，防止非技术人员因程序错误的编辑保存和调取使用，导致工厂的生产不良。

The save and read permissions of step change data are separately managed to prevent non-technical personnel from causing bad production in the factory due to program error editing, saving and retrieving.



利用强制IO，可以对电磁阀等信号进行强制的ON/OFF操作，便于在没有实际设备时确认动作和程序，从而提升程序编辑以及问题查找的效率，并增加了安全提示功能。

※操作安全方面可能会造成不便，具体式样方法请向敝司售后人员咨询。

With forced IO, signals such as solenoid valves can be forced ON/OFF, it is easy to confirm actions and programs in the absence of actual equipment, thereby improving the efficiency of program editing and problem finding, and added safety tips.

※ It may cause inconvenience in operation safety, please consult our service engineer for specific methods

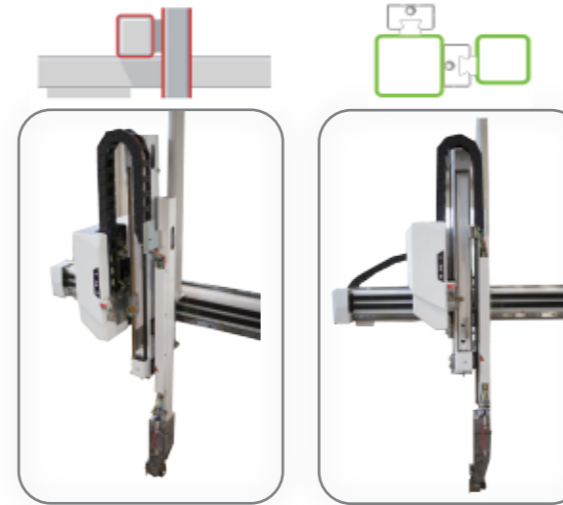


在当前涉及多元化的中国市场中，取出机默认使用的是标准规格的成型机，欧洲规格和中国规格的式样可以在操作盒上进行切换。※欧规接头式样需要另外选择选项。

Robot uses standard molding machine programs by default, and European and Chinese models can be switched on the pendant.

※ The Euro MAP specification requires an additional options.

机械 / MECHANICAL



◆变化点 CHANGE POINT

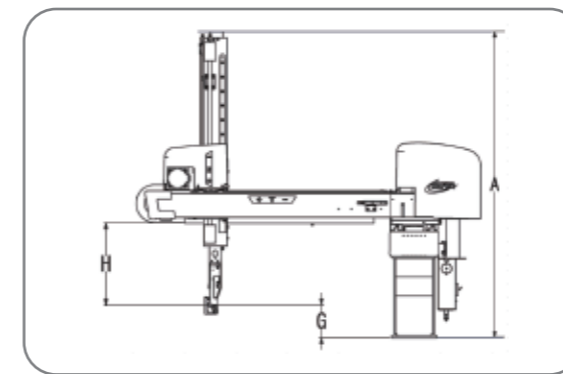
ESW-IV系列机种，前后臂由之前的门型双侧支撑结构变更为单边固定结构。

ESW-IV series, The crosswise arms are changed from the previous door-shaped, double-side support structure to a single-side fixed structure.

◆优点 ADVANTAGE

通过单边固定结构的改善减轻机器重量，在强度不变的前提下缩短周期。

Through the improvement of the unilateral fixed structure to reduce the weight of the machine, shorten the cycle under the premise of constant strength



A: 全高 Overall height
G: 制品上下待机位置 Vertical standby
H: 夹具安装位置上方有效尺寸 Effective size above chuck installation position

取出机全高降低，可以对应更严苛的客户工厂环境；制品上下待机位增大，可以让客户更灵活的使用夹具。

Reduce the overall height for more stringent factory environment. Customers can use chucks more flexibly with the increased Product Vertical standby position .



◆变化点 CHANGE POINT

ES(W)-IV系列全机种，真空单元由 ZK2 变更为新型真空单元。

The vacuum unit of ES(W)-IV series is changed from ZK2 to new vacuum unit.

◆优点 ADVANTAGE

新真空单元工作可靠（滤芯不易堵塞）；集成度高、易于扩展（真空破坏）；供给阀使用双线圈电磁阀，正常停止后切断电源真空单元不排气（节能）。

The new vacuum unit works reliably (filter element is not easy to block); High integration and easy to expand (vacuum damage); Supply valve using double coil solenoid valve, vacuum unit does not exhaust after normal stop & cutting off power supply (energy saving).



◆变化点 CHANGE POINT

制品上下配线配管全部采用隐藏式设计。

Product vertical harness and tube are all used hidden design.

标准功能

功能名	功能说明
取出侧	
取出下降待机	开模完毕前, 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。
前进取出侧姿势控制	在姿势动作的状态下通过安全门上方, 为避免在姿势动作状态下夹具与走行体或者模具上方障碍物干涉, 可任意设定姿势动作的前后位置。
节能吸着确认单元 (1回路)	使用真空发生单元1回路取出产品。
自由滑移取出	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。
顶针连动	通过注塑机的顶针连动, 取出产品。
顶针后退连动	抓取住产品后, 通过注塑机中的顶针连动, 取出产品。
水口模内开放	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。
固定可动切换	标准机从模具可动侧取出产品, 可切换至固定侧从模具固定侧取出产品。
前后自由伺服点	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。
走行	
走行途中姿势	走行前进与姿势动作同时执行, 走行复归与姿势复归同时执行, 可缩短全周期。
水口返程开放	水口在产品开放后进行开放动作。
浇口途中开放 (走行·复归)	浇口在走行往返途中进行开放动作。
不良品排出 (可计数)	与注塑机发出的不良品信号联动, 进行不良品排出动作, 并且可以设定开放到不良品位置的次数。
初期成型品排出	换模或换料后, 在刚开始的一段时间即使注塑机生产的产品是不良品的情况下, 自动开始后, 根据初期成型品排出计数器的设定, 将设定次数内的产品开放到不良品位置之后, 再进行正常运转。
横走行待机	如果模具上方有障碍物, 机械手或者夹具在模具没有完全打开的情况下有干涉时, 取出机可以在模具外等待模具完全打开后走向模具上方移动。
落下侧	
落下侧下降途中姿势	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。
装箱点	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)
自由装箱点 (100点×2级)	设定从注塑机中取出的产品的随机开放顺序。
输送带启动信号	产品开放完毕后, 启动输送带动作信号。
其他	
3国语言切换 (简体中文、日文、英文)	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。
插入式用户编程	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。
外部存储记忆	换模信息 (最大1000套) 保存在SD卡。
设定值隐藏功能	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。
伺服休眠	在超过设定时间后的待机中, 关闭马达电源。
背景灯自动OFF	超过[屏幕保护时间设定] 设定的时间如果不操作操作盒, 背景灯则关闭。
USB通信端口	可轻松连接电脑。

选项功能

功能名	选项编号	功能说明
取出侧		
吸着确认单元 (2回路)	0007-04	使用真空发生单元2回路取出产品。
吸着确认单元 (4回路)	0007-06	使用真空发生单元4回路取出产品。
夹具减压阀	0081-01	调整夹具的抓取力。
旋转功能	0025-01~04	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。
上升途中闭模	0055-01	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。
制品确认 (L4)	0087-02	上升途中安装限位开关, 检知产品。
落下侧		
剪切回路(夹具内)	0008-01	使用夹具内气剪 (1回路) 剪切水口的时候, 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。
制品2点开放	0001-02	在两处进行制品开放动作。产品夹取变为2回路。
制品4点开放	0001-03	在四处进行制品开放动作。产品夹取变为4回路。
NT剪切·可动侧(有单元)	0009-01	以处理产品水口为目的, 在落下侧的走行导轨端安装NT单元气剪, 切断水口。
其他		
警报灯 (红色·无蜂鸣器)	0024-01	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。
自动快速交换用夹具 (气压式)	8003-01	可快速装卸夹具。
操作盒支架	0005-11	操作盒专用支架。
欧规 12	0063-02	欧规 12
欧规 67	0063-03	欧规 67

STANDARD FUNCTIONS

Function Name	Description
Product Extract Side	
Descent stand-by	Shorten the cycle time by making the product-side/runner-side vertical arm stand by just above the mold. Setting position is adjustable.
Crosswise product extract side posture control	Used to first carry out posture action on the extracting side and then start traverse action after extracting vertically extended products. 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.
Vacuum confirmation unit (1circuit)	Products are extracted with vacuum generator (tacovam) 1 circuit.
Free extract for under-cut mold	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.
Ejector link	Product extraction is performed connecting with the ejector of IMM.
Ejector return link	The ejector of IMM is interlocked after holding a product.
Runner release within mold	Used to release products or runners within mold after pulling them out of the mold.
Extraction from fixed mold	It can be selected to take the products from fixed or moving side of mold.
Crosswise Free Servo point	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.
Traverse	
Posture control during traverse	All the cycles can also be shortened by carrying out traverse return and posture return together after products were released during traverse action.
Runner release on return	Runner is released after the product is opened.
Midway Sprue Release(Traverse-Return)	Sprue is released during the way of traverse axis walking forward or returning.
Defective product reject	Defective products are separated from other products intelocked with the defect signal of IMM, and the number of times to open at the position of defect can be set.
Initial Products Release	Release only the number of extracted products and sprues preset with the product-counter to the defect 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.
Delayed traverse	Make the unloader stand by out of the molding machine's door if there are obstacles in the mold moving section.
Product Release Side	
Posture midway descent at release side	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.
Point packaging	Packaging operation carried out by linking with packaging device of conveyer or of pallet changer. (Max 256 points)
Point free packaging (2 stage , 100 points)	Set the order to randomly release the products extracted form the molder.
Start signal of conveyer	After opening a product wide, the signal of a conveyer start is taken out. there are obstacles in the mold moving section.
Other	
Three language exchange (Chinese (new), Japanese, English)	Language switching between three languages can be used for display. Basically used languages are Japanese, English, and Chinese (new character format).
Easy NC steps (USER PROGRAM EDITING)	Features the simple NC step program settings. This makes it possible to designate positions for interruptions in mold changing operations.
External storage memory	Recordable step changes (Max molds). A memory is carried out to Micro SD card.
Default blind feature	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.
Servo sleep feature	Motor power is turned off after the set time.
Backlight Auto OFF	The backlight goes out if no pendant operation is performed for the period set with the [DISPLAY OFF TIME] function.
USB CONNECTION	Easily connect to the computer.

OPTION FUNCTIONS

Function Name	Code no.	Description of option
Product Extract Side		
Vacuum confirmation unit (2circuits)	8020-01	Products are extracted with vacuum generator (tacovam) 2 circuits.
Vacuum confirmation unit (4circuits)	8020-02	Products are extracted with vacuum generator (tacovam) 4 circuits.
Chuck pressure regulator	0081-01	Adjust the gripping force of the chuck.
Rotation Unitregulator	0025-01~04	Used to prevent product from hitting the robot in the mold, within the mold or on the release side by rotating the chuck plate.
Mold close during arm ascent	0055-01	Used to shorten the molding time by starting the mold closing on the way to ascent.
Product confirmation L4	0087-02	Detects the product mounting the limit switch in the middle rise.
Product Release Side		
Air nipper in chuck circuit	0008-01	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.
Release product at two different points	0001-02	Two different products are extracted and released to different positions on the release side. Two circuits are required for the chucking.
Release product at four different points	0001-03	Four different products are extracted and released to different positions on the release side. Four circuits are required for the chucking.
NT gate cutting on crossmember of moving mold side (w/unit)	0009-01	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.
Other		
Alarm Lamp (Red color,w/o buzzer)	0024-01	The alarm lamp is switched on a light when there is a alarm (error) in the robot. Mounting positions are different with robots.
Quick chuck change automatic (air sw)	8003-01	One-touch simple mating/demating of chuck plate.
Pendant stand	0005-11	Stand of operation pendant only.
EUROMAP 12	0063-02	EUROMAP 12 Specification
EUROMAP 67	0063-03	EUROMAP 67 Specification

STAR机种名称说明 | IMPROVED PRODUCTION EFFICIENCY

ES **W** - **800** **s** **IV**

W表示机器为双截, 不带W为单截机型
With W means the robot is double arm. W/O W means it is single one.

s表示水口臂, 带s为双臂机型, 不带s为单臂机型
s means runner arm. It is two vertical arms with s. On the contrary, it's single arm without s.

机种系列名, 其他还有EG系列、SP系列等
Series of models, others, EG series, SP series etc.

制品臂标准上下行程长度, ESW-800s表示此机种标准
制品臂上下行程为800mm
The normal vertical stroke of product arm. For ESW-800s, it means the normal vertical stroke of product arm is 800mm.

例: ESW-800sIV即为ESW系列, 标准制品臂上下行程为800mm的双截带水口臂的双臂机型。
ES-1200IV即为ES系列, 标准制品臂上下行程为1200mm的单截无水口臂的单臂机型。
Example: ESW-800sIV is one of ESW series, which is a double-arm model with a standard vertical stroke of 800mm. ES-1200IV is one of ES series, which is a single-arm model with a standard vertical stroke of 1200mm.

机器尺寸图注字母意义说明 | The machine size drawing is indicated by letters

A	全高	Overall height
B	全宽	Overall width
C	走行行程	Traverse stroke
D	落下侧突出位置	Overhang, release side
E	取出侧突出位置	Overhang, product side
F	制品侧上下行程	Ⓟ Vertical stroke
G	制品侧上下待机位置	Ⓟ Vertical standby
H	夹具安装位置上方有效尺寸	Bottom of crosswise to chuck mount position
I	前后单元	Crosswise arm
J	本体厚度	Thickness
K	水口侧上下待机位置	Ⓡ Vertical standby
L	制品前进MAX	Ⓟ Crosswise reach max
M	制品前后行程MAX	Ⓟ Crosswise stroke max
N	制品前后待机MIN	Ⓟ Crosswise standby min
O	制品臂、水口臂接近MIN	ⓅⓇ Proximity min
P	Ⓡ: 水口侧前后行程MAX	Ⓡ Crosswise stroke max
Q	Ⓡ: 水口侧前后待机MIN	Ⓡ Crosswise standby min
d	拖链伸出距离	The protrule distance of cable chain

全伺服驱动机械手
Full servo drive robot

单截 Single arm
40~100ton 注塑机用
Injection press range 40~100ton



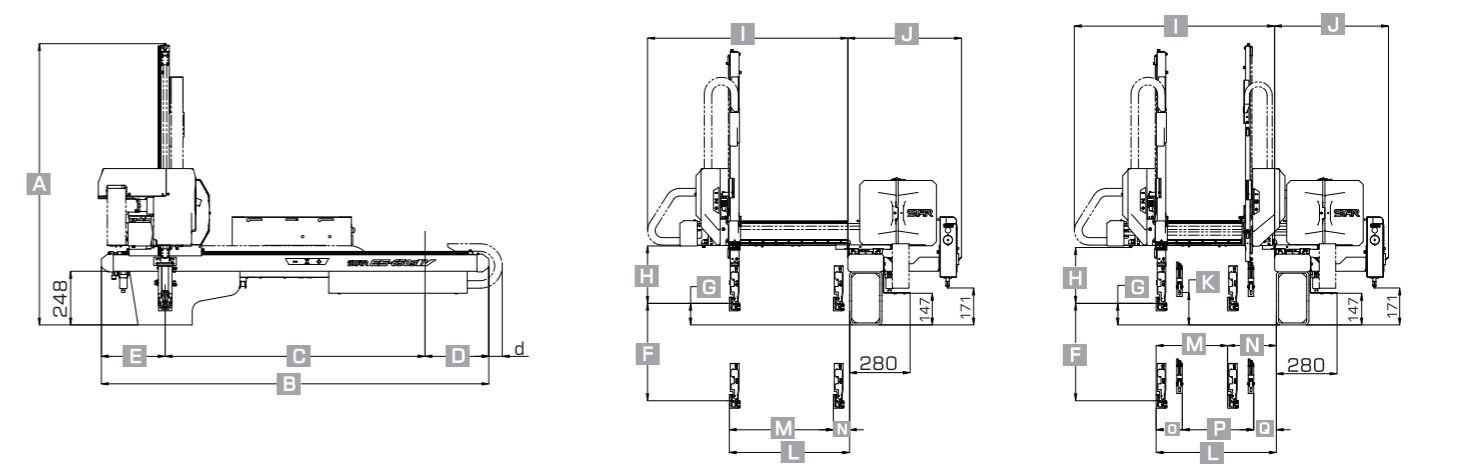
综合参数 | GENERAL SPECIFICATIONS

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:0.5Mpa时) Air Cylinder Driving Force (Air Pressure at 0.5Mpa)		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	0.5Mpa	AC伺服马达 AC Servo Motor	90°固定 90° Fixed	标准姿势部: 3kg Standard posture: 3kg (含夹具重量 Incl Chuck Weight)	5.0N·m	STEC-NC2c

机种 Model	行程(移动量)(mm) Stroke				电源设备容量 (kVA) Electric Consumpition	最大消费电力 (kW) Max Power Consumpition	机器重量(kg) Net Weight		空气消耗量 (Nℓ/周期) Air Consumption (Nℓ/Cycle)
	制品上下 Ⓟ Vertical	水口上下 Ⓡ Vertical	前后 Crosswise	走行 Traverse			本体 Main Body	操作盒 Pendant	
ES-650IV	650 [800]	—	75~555 [75~675]	1200 [1000] [1400]	1.8	1.1	173	1.1	1.63
ES-650sIV	—	700 [850]	Ⓟ 225~555 Ⓡ 104~434 [Ⓟ 225~675 Ⓡ 104~554]	1600	2.4	1.4	191	—	—

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

外观尺寸 | OUTER DIMENSIONS



Ⓟ [] 内的尺寸表示选项行程。 / Figure in [] shows option stroke.
Ⓡ 水口夹的厚度为25mm。 / Thickness of runner chuck is basically about 25 mm.
Ⓟ 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。 / Thickness of posture area is basically about 45 mm (depends on tubing)
Ⓡ 水口侧上下行程比制品侧上下行程长50mm。 / Runner side vertical stroke is 50 mm longer than that of product side.
Ⓟ*1表示F尺寸为800mm。 / *1 When dimension F is 800 mm.
Ⓡ*2表示C尺寸为1000mm。 / *2 When dimension C is 1000 mm.
Ⓟ*3表示C尺寸为1400mm。 / *3 When dimension C is 1400 mm.
Ⓡ*4表示C尺寸为1600mm。 / *4 When dimension C is 1600 mm.
Ⓟ*5表示L尺寸为675mm。 / *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-650IV	1272 [1419] ^{*1}	1790 [1790] ^{*2}	1200 [1000] ^{*3} [295] ^{*2} [495] ^{*2}	295 [295] ^{*2} [495] ^{*2}	295 [495] ^{*2} [295] ^{*4}	650 [800] ^{*1}	100	257	925 [1045] ^{*5}	525	—	555 [675] ^{*5}	480 [600] ^{*5}	75	—	—	—
ES-650sIV	1300 [1436] ^{*1}	2210 [2210] ^{*4}	1400 [1600] ^{*4} [315] ^{*4}	315 [315] ^{*4} [295] ^{*4}	295 [295] ^{*4}	—	—	—	—	—	150	—	330 [450] ^{*5}	225	121	330 [450] ^{*5}	104

(mm)
※反操作时E值为309、[509]^{*2}、[509]^{*3}、[309]^{*4}
D值为281、[281]^{*2}、[301]^{*3}、[301]^{*4}
As anti-operator side E is 309、[509]^{*2}、[509]^{*3}、[309]^{*4}
D is 281、[281]^{*2}、[301]^{*3}、[301]^{*4}
※d值正操作时为62、[62]^{*2}、[0]^{*3}、[0]^{*4}
反操作时为77、[77]^{*2}、[0]^{*3}、[0]^{*4}
As operator side d is 62、[62]^{*2}、[0]^{*3}、[0]^{*4}
anti-operator side d is 77、[77]^{*2}、[0]^{*3}、[0]^{*4}

全伺服驱动机械手 Full servo drive robot

单截 Single arm

100~350ton 注塑机用
Injection press range 100~350ton



综合参数 | GENERAL 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:0.5Mpa时) Air Cylinder Driving Force (Air Pressure at 0.5Mpa)		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	0.5Mpa	AC伺服马达 AC Servo Motor	90°固定 90° Fixed	标准姿势部: 5kg[8kg] Standard posture: 5kg[8kg] (含夹具重量 Incl Chuck Weight)	13.1N·m [20.6N·m]	STEC-NC2c

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 (Nℓ/周期) Air Consumption (Nℓ/Cycle)
	制品上下 Ⓟ Vertical	水口上下 Ⓡ Vertical	前后 Crosswise	走行 Traverse			本体 Main Body	操作盒 Pendant	
ES-800IV	800 [1000]	—	90~850 [90~1000]	1400 [1200]	1.8	1.1	225	1.1	2.11
ES-800sIV	—	850 [1050]	Ⓟ 245~850 Ⓡ 105~710 Ⓟ 245~1000 Ⓡ 105~860	1600 [1800]	2.4	1.4	245		

Ⓟ []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。
Ⓢ 关于最大可搬重量, 详情请咨询敝司营业担当。

Ⓢ 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.
Ⓢ For details of the maximum allowable weight, please confirm with our sales man.

全伺服驱动机械手 Full servo drive robot

单截 Single arm

250~450ton 注塑机用
Injection press range 250~450ton



综合参数 | GENERAL SPECIFICATIONS

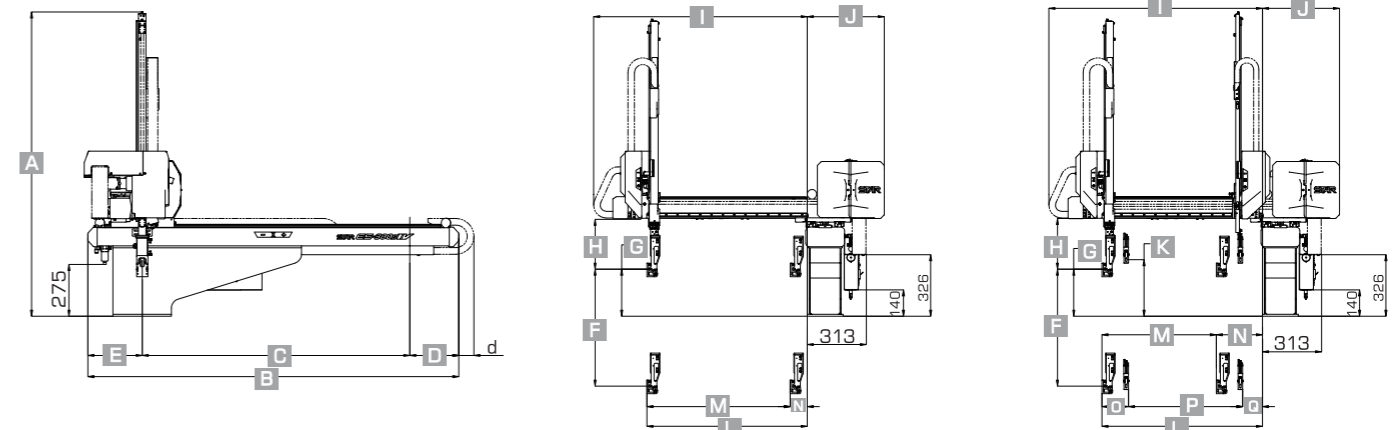
电源 Power Source	常用气压 Air Pressure	驱动方式 Drive System	姿势(气缸) Posture (Air Cylinder)	气动姿势部推力 (气压:0.5Mpa时) Air Cylinder Driving Force (Air Pressure at 0.5Mpa)		控制箱 Control Box
				最大可搬重量 Max. Load	姿势力矩 Posture Torque	
AC200V ±10% 50/60Hz(单相) Single Phase	0.5Mpa	AC伺服马达 AC Servo Motor	90°固定 90° Fixed	标准姿势部: 5kg[8kg] Standard posture: 5kg[8kg] (含夹具重量 Incl Chuck Weight)	20.6N·m	STEC-NC2c

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 (Nℓ/周期) Air Consumption (Nℓ/Cycle)
	制品上下 Ⓟ Vertical	水口上下 Ⓡ Vertical	前后 Crosswise	走行 Traverse			本体 Main Body	操作盒 Pendant	
ES-1000IV	1000	—	90~1000	1800	1.8	1.1	248	1.1	2.31
ES-1000sIV	—	1050	Ⓟ 245~1000 Ⓡ 105~860	1600	2.4	1.4	269		

Ⓟ []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。
Ⓢ 关于最大可搬重量, 详情请咨询敝司营业担当。

Ⓢ 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.
Ⓢ For details of the maximum allowable weight, please confirm with our sales man.

外观尺寸 | OUTER DIMENSIONS



Ⓢ []内的尺寸表示选项行程。 / Figure in [] shows option stroke.
Ⓢ 水口夹的厚度为25mm。 / Thickness of runner chuck is basically about 25 mm.
Ⓢ 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。 / Thickness of posture area is basically about 69 mm (depends on tubing)
Ⓢ 水口侧上下行程比制品侧上下行程长50mm。 / Runner side vertical stroke is 50 mm longer than that of product side.

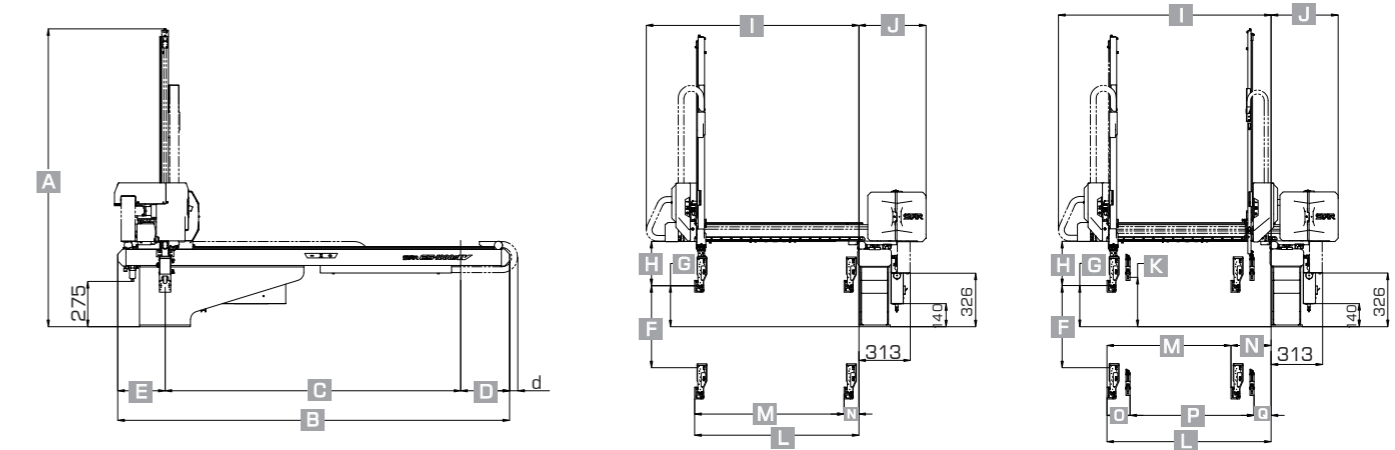
Ⓢ *1表示F尺寸为1000mm。 / *1 When dimension F is 1000 mm.
Ⓢ *2表示C尺寸为1200mm。 / *2 When dimension C is 1200 mm.
Ⓢ *3表示C尺寸为1600mm。 / *3 When dimension C is 1600 mm.
Ⓢ *4表示C尺寸为1800mm。 / *4 When dimension C is 1800 mm.
Ⓢ *5表示L尺寸为1000mm。 / *5 When dimension L is 1000 mm.

机种 Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
ES-800IV	1580 [1780] ^{*1}	1970 [1970] ^{*2}	1400 [1200] ^{*2}	280 [280] ^{*2}	290 [490] ^{*2}	800 [1000] ^{*1}	250	265	1145 [1295] ^{*5}	410	—	850 [1000] ^{*5}	760 [910] ^{*5}	90	—	—	—
ES-800sIV	1620 [1820] ^{*1}	2390 ^{*3}	1600 ^{*3}	300 ^{*3}	490 ^{*3}	—	—	—	—	—	300	—	605 [755] ^{*5}	245	140	605 [755] ^{*5}	105

(mm) ※反操作时E值为305、[505]^{*2}、[505]^{*3}、[305]^{*4}
D值为265、[265]^{*2}、[285]^{*3}、[285]^{*4}
As anti-operator side E is 305、[505]^{*2}、[505]^{*3}、[305]^{*4}
D is 265、[265]^{*2}、[285]^{*3}、[285]^{*4}

※d值正操作时为80、[80]^{*2}、[50]^{*3}、[50]^{*4}
反操作时为40、[40]^{*2}、[10]^{*3}、[10]^{*4}
As operator side d is 80、[80]^{*2}、[50]^{*3}、[50]^{*4}
anti-operator side d is 40、[40]^{*2}、[10]^{*3}、[10]^{*4}

外观尺寸 | OUTER DIMENSIONS



Ⓢ []内的尺寸表示选项行程。 / Figure in [] shows option stroke.
Ⓢ 水口夹的厚度为25mm。 / Thickness of runner chuck is basically about 25 mm.
Ⓢ 姿势部厚度为74mm, 但根据配管方式不同, 此尺寸多少会有些不同。 / Thickness of posture area is basically about 74 mm (depends on tubing)

Ⓢ 水口侧上下行程比制品侧上下行程长50mm。 / Runner side vertical stroke is 50 mm longer than that of product side.
Ⓢ *1表示C尺寸为1600mm。 / *1 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-1000IV	1780	2390 [2390] ^{*1}	1800 [1600] ^{*1}	300 [300] ^{*1}	290 [490] ^{*1}	1000	250	265	1295	410	—	1000	910	90	—	—	—
ES-1000sIV	1820	—	—	—	—	—	—	—	—	—	300	—	755	245	140	755	105

(mm) ※反操作时E值305、[505]^{*1}
D值285、[285]^{*1}
As anti-operator side E is 305、[505]^{*1}
D is 285、[285]^{*1}

※d值正操作时为50、[50]^{*1}
反操作时为10、[10]^{*1}
As operator side d is 50、[50]^{*1}
anti-operator side d is 10、[10]^{*1}

全伺服驱动机械手 Full servo drive robot

单截 Single arm

350~650ton 注塑机用
Injection press range 350~650ton



综合参数 | GENERAL 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:0.5Mpa时) Air Cylinder Driving Force (Air Pressure at 0.5Mpa)		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	0.5Mpa	AC伺服马达 AC Servo Motor	90°固定 90° Fixed	标准姿势部: 10kg[12kg] Standard posture: 10kg[12kg] (含夹具重量 Incl Chuck Weight)	59.0N·m	STEC-NC2c			
机种 Model	行程(移动量)(mm) Stroke				电源设备容量 (KVA) Electric Consumpiton	最大消费电力 (KW) Max Power Consumpiton	机器重量(kg) Net Weight		空气消耗量 (Nℓ/周期) Air Consumption (Nℓ/Cycle)
	制品上下 Ⓟ Vertical	水口上下 Ⓡ Vertical	前后 Crosswise	走行 Traverse			本体 Main Body	操作盒 Pendant	
ES-1200IV	1200 [1400]	—	140~1240	1800 [1600] [2000] [2200]	2.9	1.7	438	1.1	5.11
ES-1200sIV	1250 [1450]	Ⓟ 270~1240 Ⓡ 82~1052			3.5	2.1	474		

Ⓟ []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。
关于最大可搬重量, 详情请咨询敝司营业担当。

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.
For details of the maximum allowable weight, please confirm with our sales man.

全伺服驱动机械手 Full servo drive robot

双截 Double arm

100~350ton 注塑机用
Injection press range 100~350ton



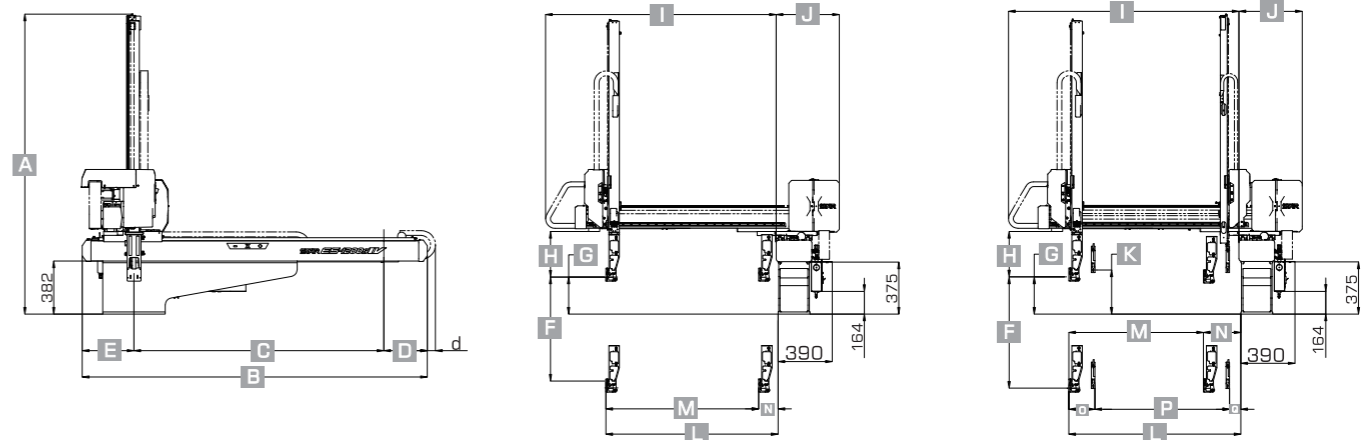
综合参数 | GENERAL SPECIFICATIONS

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:0.5Mpa时) Air Cylinder Driving Force (Air Pressure at 0.5Mpa)		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	0.5Mpa	AC伺服马达 AC Servo Motor	90°固定 90° Fixed	标准姿势部: 5kg[10kg] Standard posture: 5kg[10kg] (含夹具重量 Incl Chuck Weight)	13.1N·m [20.6N·m]	STEC-NC2c			
机种 Model	行程(移动量)(mm) Stroke				电源设备容量 (KVA) Electric Consumpiton	最大消费电力 (KW) Max Power Consumpiton	机器重量(kg) Net Weight		空气消耗量 (Nℓ/周期) Air Consumption (Nℓ/Cycle)
	制品上下 Ⓟ Vertical	水口上下 Ⓡ Vertical	前后 Crosswise	走行 Traverse			本体 Main Body	操作盒 Pendant	
ESW-800IV	800 [1000] [1200]	—	90~790 [90~940]	1400 [1200] [1600] [1800]	2.3	1.4	234	1.1	2.22
ESW-800sIV	850 [1050] [1250]	Ⓟ 280~790 Ⓡ 154~664 Ⓟ 280~940 Ⓡ 154~814			3.5	2.1	259		

Ⓟ []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。
关于最大可搬重量, 详情请咨询敝司营业担当。

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.
For details of the maximum allowable weight, please confirm with our sales man.

外观尺寸 | OUTER DIMENSIONS



Ⓟ []内的尺寸表示选项行程。 / Figure in [] shows option stroke.
水口夹的厚度为25mm。 / Thickness of runner chuck is basically about 25 mm.
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。 / Thickness of posture area is basically about 97 mm (depends on tubing)
水口侧上下行程比制品侧上下行程长50mm。 / Runner side vertical stroke is 50 mm longer than that of product side.

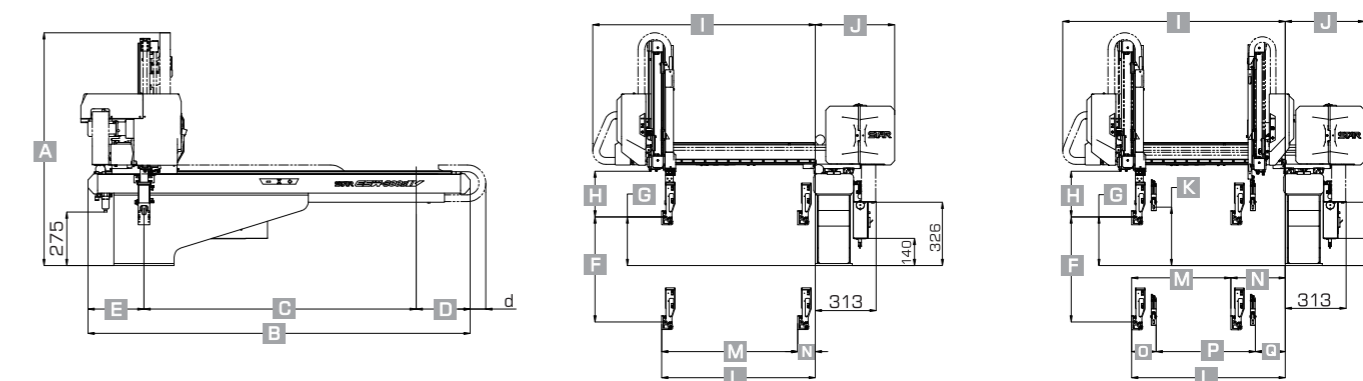
*1表示F尺寸为1400mm。 / *1 When dimension F is 1400 mm.
*2表示C尺寸为1600mm。 / *2 When dimension C is 1600 mm.
*3表示C尺寸为2000mm。 / *3 When dimension C is 2000 mm.
*4表示C尺寸为2200mm。 / *4 When dimension C is 2200 mm.

机种 Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
ES-1200IV	2123 [2363] ^{*1}	2486 [2486] ^{*2}	1800 [1600] ^{*2} [2000] ^{*3} [2200] ^{*4}	313	373 [573] ^{*2} [573] ^{*3} [373] ^{*4}	1200 [1400] ^{*1}	266	328	1661	456	—	1240	1100	140	—	—	—
ES-1200sIV	2160 [2400] ^{*1}	2886 [2886] ^{*3}	2200 ^{*4}								316	1240	970	270	188	970	82

(mm) ※反操作时E值为328、[528]^{*2}、[528]^{*3}、[328]^{*4}
D值为358
As anti-operator side E is 328、[528]^{*2}、[528]^{*3}、[328]^{*4}
D is 358

※d值正操作时为59、[59]^{*2}、[59]^{*3}、[59]^{*4}
反操作时为0、[0]^{*2}、[0]^{*3}、[0]^{*4}
As operator side d is 59、[59]^{*2}、[59]^{*3}、[59]^{*4}
anti-operator side d is 0、[0]^{*2}、[0]^{*3}、[0]^{*4}

外观尺寸 | OUTER DIMENSIONS



Ⓟ []内的尺寸表示选项行程。 / Figure in [] shows option stroke.
水口夹的厚度为25mm。 / Thickness of runner chuck is basically about 25 mm.
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。 / Thickness of posture area is basically about 69 mm (depends on tubing)
水口侧上下行程比制品侧上下行程长50mm。 / Runner side vertical stroke is 50 mm longer than that of product side.

*1表示F尺寸为1000mm。 / *1 When dimension F is 1000 mm.
*2表示F尺寸为1200mm。 / *2 When dimension F is 1200 mm.
*3表示C尺寸为1200mm。 / *3 When dimension C is 1200 mm.
*4表示C尺寸为1600mm。 / *4 When dimension C is 1600 mm.
*5表示C尺寸为1800mm。 / *5 When dimension C is 1800 mm.
*6表示L尺寸为940mm。 / *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-800IV	1200 [1300] ^{*1} [1400] ^{*2}	1970 [1970] ^{*3}	1400 [1200] ^{*3} [1600] ^{*4} [1800] ^{*5}	280 [280] ^{*3} [300] ^{*4} [300] ^{*5}	290 [490] ^{*3} [490] ^{*4} [290] ^{*5}	800 [1000] ^{*1} [1200] ^{*2}	250	235	1145 [1295] ^{*6}	410	—	790 [940] ^{*6}	700 [850] ^{*6}	90	—	—	—
ESW-800sIV	1200 [1300] ^{*1} [1400] ^{*2}	2390 ^{*4}	1800 ^{*5}								300	790 [940] ^{*6}	510 [660] ^{*6}	280	126	510 [660] ^{*6}	154

(mm) ※反操作时E值为305、[505]^{*3}、[505]^{*4}、[305]^{*5}
D值为265、[265]^{*3}、[285]^{*4}、[285]^{*5}
As anti-operator side E is 305、[505]^{*3}、[505]^{*4}、[305]^{*5}
D is 265、[265]^{*3}、[285]^{*4}、[285]^{*5}

※d值正操作时为80、[80]^{*3}、[50]^{*4}、[50]^{*5}
反操作时为40、[40]^{*3}、[10]^{*4}、[10]^{*5}
As operator side d is 80、[80]^{*3}、[50]^{*4}、[50]^{*5}
anti-operator side d is 40、[40]^{*3}、[10]^{*4}、[10]^{*5}

全伺服驱动机械手 Full servo drive robot

双截 Double arm

250~450ton 注塑机用
Injection press range 250~450ton



综合参数 | GENERAL SPECIFICATIONS

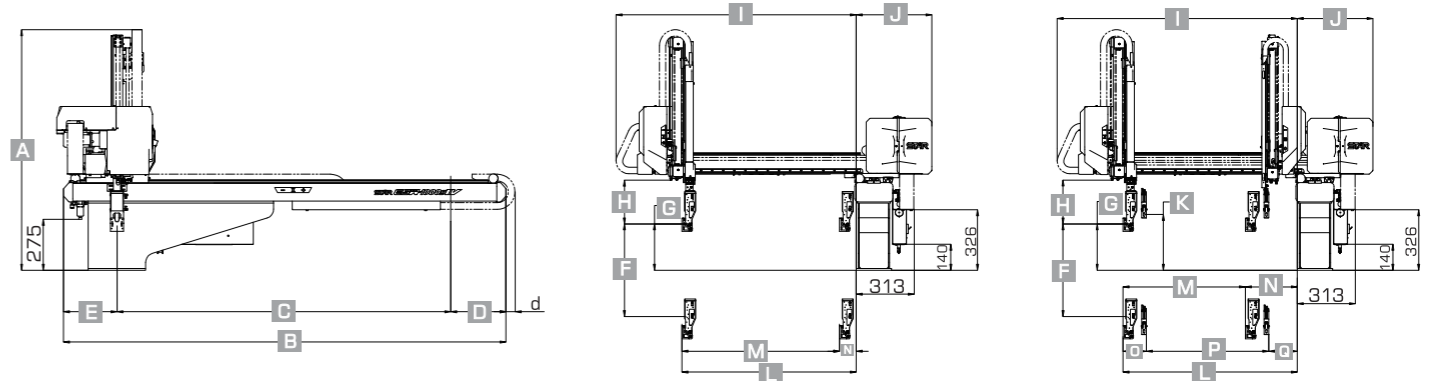
电源 Power Source	常用气压 Air Pressure	驱动方式 Drive System	姿势(气缸) Posture (Air Cylinder)	气动姿势部推力 (气压:0.5Mpa时) Air Cylinder Driving Force (Air Pressure at 0.5Mpa)		控制箱 Control Box
				最大可搬重量 Max. Load	姿势力矩 Posture Torque	
AC200V ±10% 50/60Hz(单相) Single Phase	0.5Mpa	AC伺服马达 AC Servo Motor	90°固定 90° Fixed	标准姿势部: 5kg[10kg] Standard posture: 5kg[10kg] (含夹具重量 Incl Chuck Weight)	20.6N·m	STEC-NC2c

机种 Model	行程(移动量)(mm) Stroke				电源设备容量 (KVA) Electric Consumpton	最大消费电力 (KW) Max Power Consumpton	机器重量(kg) Net Weight		空气消耗量 (Nℓ/周期) Air Consumption (Nℓ/Cycle)
	制品上下 Ⓟ Vertical	水口上下 Ⓡ Vertical	前后 Crosswise	走行 Traverse			本体 Main Body	操作盒 Pendant	
ESW-1000IV	1000 [1200]	—	90~940	1800 [1600]	2.3	1.4	258	1.1	2.34
ESW-1000sIV	—	1050 [1250]	Ⓟ 280~940 Ⓡ 154~814	—	3.5	2.1	284	—	—

Ⓟ [] 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。
Ⓢ 关于最大可搬重量, 详情请咨询敝司营业担当。

Ⓢ 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.
Ⓢ For details of the maximum allowable weight, please confirm with our sales man.

外观尺寸 | OUTER DIMENSIONS



Ⓢ [] 内的尺寸表示选项行程。 / Figure in [] shows option stroke.
Ⓢ 水口夹的厚度为25mm。 / Thickness of runner chuck is basically about 25 mm.
Ⓢ 姿势部厚度为74mm。但根据配管方式不同, 此尺寸多少会有些不同。 / Thickness of posture area is basically about 74 mm (depends on tubing)
Ⓢ 水口侧上下行程比制品侧上下行程长50mm。 / Runner side vertical stroke is 50 mm longer than that of product side.

机种 Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
ESW-1000IV	1300 [1400] ^{*1}	—	1800 [1600] ^{*2}	300 [300] ^{*2}	290 [490] ^{*2}	1000 [1200] ^{*1}	250	235	1295	410	—	940	850	90	—	—	—
ESW-1000sIV	1300 [1400] ^{*1}	2390 [2390] ^{*2}	1800 [1600] ^{*2}	300 [300] ^{*2}	290 [490] ^{*2}	1000 [1200] ^{*1}	250	235	1295	410	300	940	660	280	126	660	154

(mm) ※反操作时E值为305、[505]^{*2}
D值为285、[285]^{*2}
As anti-operator side E is 305、[505]^{*2}
D is 285、[285]^{*2}
※d值正操作时为50、[50]^{*2}
反操作时为10、[10]^{*2}
As operator side d is 50、[50]^{*2}
anti-operator side d is 10、[10]^{*2}

全伺服驱动机械手 Full servo drive robot

双截 Double arm

350~650ton 注塑机用
Injection press range 350~650ton



综合参数 | GENERAL SPECIFICATIONS

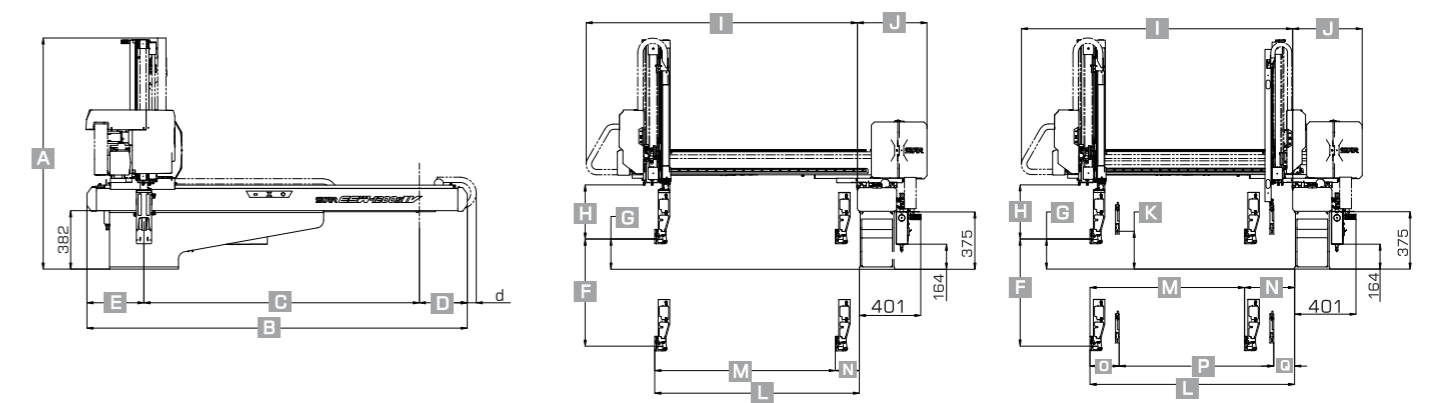
电源 Power Source	常用气压 Air Pressure	驱动方式 Drive System	姿势(气缸) Posture (Air Cylinder)	气动姿势部推力 (气压:0.5Mpa时) Air Cylinder Driving Force (Air Pressure at 0.5Mpa)		控制箱 Control Box
				最大可搬重量 Max. Load	姿势力矩 Posture Torque	
AC200V ±10% 50/60Hz(单相) Single Phase	0.5Mpa	AC伺服马达 AC Servo Motor	90°固定 90° Fixed	标准姿势部: 10kg[15kg] Standard posture: 10kg[15kg] (含夹具重量 Incl Chuck Weight)	59.0N·m	STEC-NC2c

机种 Model	行程(移动量)(mm) Stroke				电源设备容量 (KVA) Electric Consumpton	最大消费电力 (KW) Max Power Consumpton	机器重量(kg) Net Weight		空气消耗量 (Nℓ/周期) Air Consumption (Nℓ/Cycle)
	制品上下 Ⓟ Vertical	水口上下 Ⓡ Vertical	前后 Crosswise	走行 Traverse			本体 Main Body	操作盒 Pendant	
ESW-1200IV	1200 [1400]	—	158~1338 [158~1538]	1800 [1600]	2.9	1.7	457	1.1	9.62
ESW-1200sIV	—	1250 [1450] [1750]	Ⓟ 328~1338 Ⓡ 137~1147 Ⓢ 328~1538 Ⓣ 137~1347	2000 [2200]	4.5	2.7	501	—	—

Ⓢ [] 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。
Ⓢ 关于最大可搬重量, 详情请咨询敝司营业担当。

Ⓢ 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.
Ⓢ For details of the maximum allowable weight, please confirm with our sales man.

外观尺寸 | OUTER DIMENSIONS



Ⓢ [] 内的尺寸表示选项行程。 / Figure in [] shows option stroke.
Ⓢ 水口夹的厚度为25mm。 / Thickness of runner chuck is basically about 25 mm.
Ⓢ 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。 / Thickness of posture area is basically about 97 mm (depends on tubing)
Ⓢ 水口侧上下行程比制品侧上下行程长50mm。
Runner side vertical stroke is 50 mm longer than that of product side.

机种 Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
ESW-1200IV	1551 [1647] ^{*1} [1791] ^{*2}	—	1800 [1600] ^{*3}	313	373 [573] ^{*3} [573] ^{*4} [373] ^{*5}	1200 [1400] ^{*1} [1700] ^{*2}	196	354	1773 [2018] ^{*6}	456	—	1338 [1538] ^{*6}	1180 [1380] ^{*6}	158	—	—	—
ESW-1200sIV	1551 [1647] ^{*1} [1791] ^{*2}	2486 [2886] ^{*3} [2886] ^{*5}	1800 [2000] ^{*4} [2200] ^{*5}	313	373 [573] ^{*3} [573] ^{*4} [373] ^{*5}	1200 [1400] ^{*1} [1700] ^{*2}	196	354	1773 [2018] ^{*6}	456	246	1338 [1538] ^{*6}	1010 [1210] ^{*6}	328	191	1010 [1210] ^{*6}	137

(mm) ※反操作时E值为328、[528]^{*3}、[528]^{*4}、[328]^{*5}
D值为358
As anti-operator side E is 328、[528]^{*3}、[528]^{*4}、[328]^{*5}
D is 358
※d值正操作时为59、[59]^{*3}、[59]^{*4}、[59]^{*5}
反操作时为0、[0]^{*3}、[0]^{*4}、[0]^{*5}
As operator side d is 59、[59]^{*3}、[59]^{*4}、[59]^{*5}
anti-operator side d is 0、[0]^{*3}、[0]^{*4}、[0]^{*5}

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