STAR 高科技机械手 Automatic unloader

ESW-III SERIES



ESW-1700YIII

适用注塑机吨位
injection press range
650~2100ton



STEC-NC3

多功能操作盒
pendant with multi-function

功能更多样、操作更简单便捷
Variety function,more convenient and simpler operation

优点 | ADVANTAGE

<1>行程加长、负载加强、全高降低，能适应低空间厂房内夹取大型产品，减少特殊选项的对应。
The stroke is extended、the load is strengthened and the overall height is reduced which can clamp of large products in low space factories without the need for special OP modifications.

<2>与传统型取出机相比，夹具板、产品外形尺寸不再受限于夹具安装位置上方有效尺寸。
Compared with traditional robot, the chuck and the overall dimension of product are no longer limited by bottom of crosswise.

<3>取出机标配集中给油系统，提升了设备维护的便利性，缩短维护时间。
The standard configuration of the robot is a centralized oil supply system, which improves the convenience of equipment maintenance and shortens maintenance time.

<4>全系制品上下取消平衡气缸，工厂内部测试环境下，空气消耗量降低70%。
Balanced cylinders are removed from the entire series of products, resulting in a 70% reduction in air consumption in the factory's internal testing environment.

<5>负荷能力提升，可适配丰富的2轴NC选项（18kg\25kg\30kg）。
Load capacity is Improved ,be adaptable to a wide range of 2-axis NC options (18kg 25kg 30kg).

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)	气缸推力(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(三相) 3 Phase	0.5Mpa	AC伺服马达 AC Servo Motor	90° 固定 90° Fixed	25kg(35kg)(40kg) (含夹具重量) Incl Chuck Weight	55N·m [110N·m]	STEC-NC3

综合参数 | GENERAL SPECIFICATIONS

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)
	上下 Ⓟ Vertical	上下 Ⓡ Vertical	前 后 Crosswise	走 行 Traverse			本 体 Main Body	操作盒 Pendant	
ESW-1700YIII	1700 [2000] [2300] [2500]	—	236~1666 [236~1966]	3000 [2500] [3500] [4000]	5.00	3.25	720	2.0	6.88

◎[ ]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。
◎( )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.

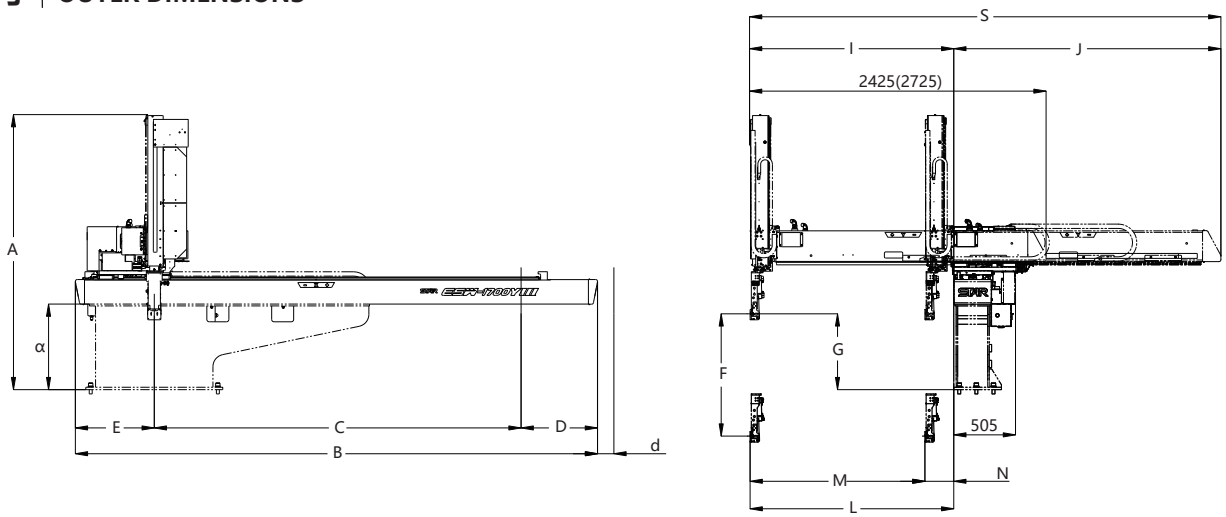
标准功能 | STANDARD FUNCTIONS

取出下降待机 Delayed arm descent	自由滑移取出 Free extract for under-cut mold	落下侧下降途中姿势 Posture midway descent at release side	操作盒内置存储记忆 Internal storage memory
前进取出侧姿势控制 Crosswise product extract side posture control	走行途中姿势 Posture control during traverse	装箱点 Point packaging	设定值隐藏功能 Default blind feature
前后自由伺服点 Crosswise Free Servo point	浇口途中开放(走行.复归) Midway runner release(Move.Revert)	自由装箱点(8级,共1024点) Point free packaging (1024 points * 8 stage)	伺服休眠 Servo sleep feature
吸着确认单元(1回路) Vacuum confirmation unit(1 circuit)	不良品排出 Defective product reject	输送带启动信号 Start singal of conveyor	背景灯自动OFF Backlight Auto OFF
顶针联动 Ejector link	初期不良品排出 Initial defective product reject	3国语言切换(简体中文、日文、英文) Three language exchange (Simplified Chinese, Japanese, English)	伺服监视(波形监视) Servo monitor (Wave shape monitor)
顶针后退联动 Ejector return link	横走行待机 Delayed traverse	插入式用户编程 Easy NC steps (USER PROGRAM EDITING)	部分集中给油B型(分流器) Partial centralized oil feed b type(shunt)

选项功能 | OPTION FUNCTIONS

吸着2点开放 Release products at two different points w/vacuum	上升途中闭模 Mold close during arm ascent	制品2点开放 Release product at two different points	夹具快速自动交换配件（手动式） Quick chuck change (manual),robot side
吸着4点开放 Release products at four different points w/vacuum	制品确认（LS-4） Product confirmation L4	制品4点开放 Release product at four different points	操作盒支架 Pendant stand
夹具减压阀 Chuck pressure regulator	固定可动切换 Extraction from fixed mold	NT剪切・可动侧（带单元，带电磁阀） NT gate cut on crossmember of moving side(w/ unit,w/valve)	欧规12 EUROMAP 12
回转机构 Product rotation unit	夹具内剪刀回路 Air nipper in chuck	警报灯（红色・无蜂鸣器） Alarm Lamp (Red color, w/o buzzer)	欧规 67 EUROMAP 67 Specification
上下手臂防落气缸 Vertical arm anti-falling cylinder	姿势强化（35kg/40kg） Reinforced posture (35kg/40kg)	2轴NC强化（25kg/30kg） Reinforced 2-axis NC (35kg/40kg)	

外观尺寸 | OUTER DIMENSIONS



外形尺寸(mm) | OUTER DIMENSIONS

A	全高 / Overall height	2250[2400]*1 [2550]*2 [2670]*3
B	全幅 / Overall width	4270[3790]*4 [4830]*5 [5310]*6
C	走行行程 / Traverse stroke	3000[2500]*4 [3500]*5 [4000]*6
D	落下侧突出位置 / Overhang,release side	625[645]*4 [685]*5 [665]*6
E	取出侧突出位置 / Cable guide overhang	645
F	Ⓟ 制品侧上下行程 / ⓅVertical stroke	1700[2000]*1 [2300]*2 [2500]*3
G	Ⓟ 制品侧上下待机位置 / ⓅVertical standby	620[520]*8 [720]*9 [820]*10
α	**基座高度 / Base height**	700[600]*8 [800]*9 [900]*10
I	前后单元 / Crosswise arm	1670[1970]*7
J	本体厚度 / Thickness	2185[2485]*7
K	Ⓡ 水口侧上下待机位置 ⓇVertical standby	-
L	Ⓟ 制品前进MAX ⓅCrosswise reach max	1666[1966]*7
M	Ⓟ 制品前进行程MAX ⓅCrosswise stroke max	1430[1730]*7
N	Ⓟ 制品前后待机MIN ⓅCrosswise standby min	236
O	ⓅⓇ 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	-

◎[ ]内的尺寸表示选项行程。
◎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。
◎*1表示F尺寸为2000mm。 ◎*2表示F尺寸为2300mm。
◎*3表示F尺寸为2500mm。 ◎*4表示C尺寸为2500mm。
◎*5表示C尺寸为3500mm。 ◎*6表示C尺寸为4000mm。
◎*7表示L尺寸为1966mm。 ◎*8表示α尺寸为600mm。
◎*9表示α尺寸为800mm。 ◎*10表示α尺寸为900mm。

◎Figure in [ ] shows option stroke.
◎Thickness of posture area is basically about 115 mm (depends on tubing)
◎*1 When dimension F is 2000 mm. ◎*2 When dimension F is 2300 mm.
◎*3 When dimension F is 2500 mm. ◎*4 When dimension C is 2500 mm.
◎*5 When dimension C is 3500 mm. ◎*6 When dimension C is 4000 mm.
◎*7 When dimension L is 1966 mm. ◎*8 When dimension α is 600 mm.
◎*9 When dimension α is 800 mm. ◎*10 When dimension α is 900 mm.

※反操作时E值为651、[655]*4、[655]*5、[655]*6
D值为619、[635]*4、[675]*5、[655]*6
The value of E in negative operation is 651、[655]*4、[655]*5、[655]*6
The value of D is 619、[635]*4、[675]*5、[655]*6

※d值正操作时为0 [0]*3 [0]*4 [0]*5 As operator side d is 0 [0]*3 [0]*4 [0]*5
反操作时为0 [0]*3 [0]*4 [0]*5 anti-operator side d is 0 [0]*3 [0]*4 [0]*5

※α值为 600 时，A 值为2150 [2300]*1 [2450]*2 [2570]*3
α值为 800 时，A 值为2350 [2500]*1 [2650]*2 [2770]*3
α值为 900 时，A 值为2450 [2600]*1 [2750]*2 [2870]*3
When the value of α is 600,the value of A will be 2150 [2300]*1 [2450]*2 [2570]*3
When the value of α is 800,the value of A will be 2350 [2500]*1 [2650]*2 [2770]*3
When the value of α is 900,the value of A will be 2450 [2600]*1 [2750]*2 [2870]*3

●因改良等原因，规格及外观有所变更时，不再另行通知，敬请包涵。All stated here is subject to change without advance notice.

STAR AUTOMATION
Your robot for injection moulding

STAR AUTOMATION EUROPE S.p.a.
Via Salgari, 2R/2S
30036 Caselle di S. Maria di Sala (VE) ITALY
Tel. +39 041 5785311 - Fax +39 041 5785312
sales@star-europe.com
star-europe.com

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QUALITY SYSTEM
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