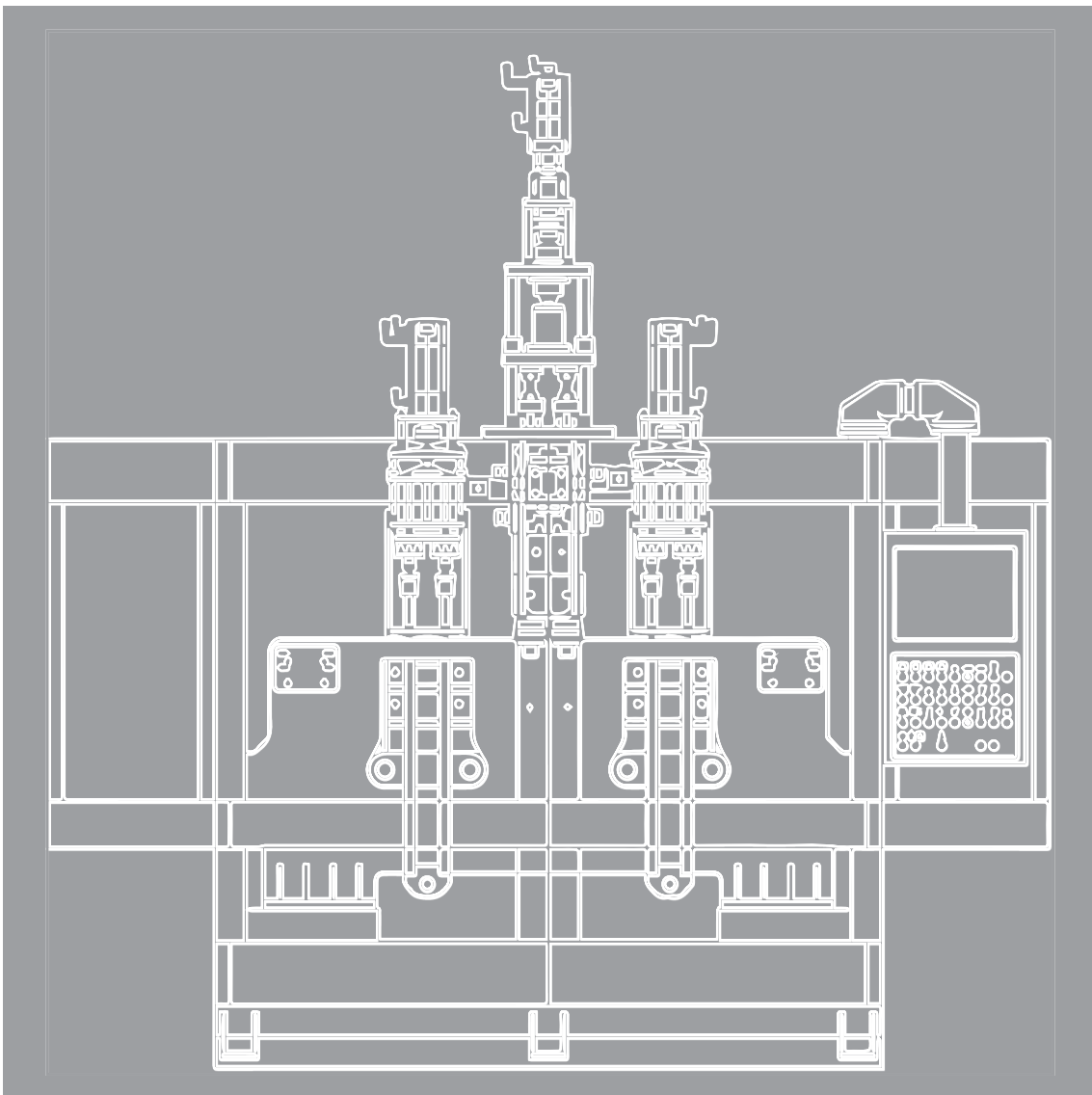


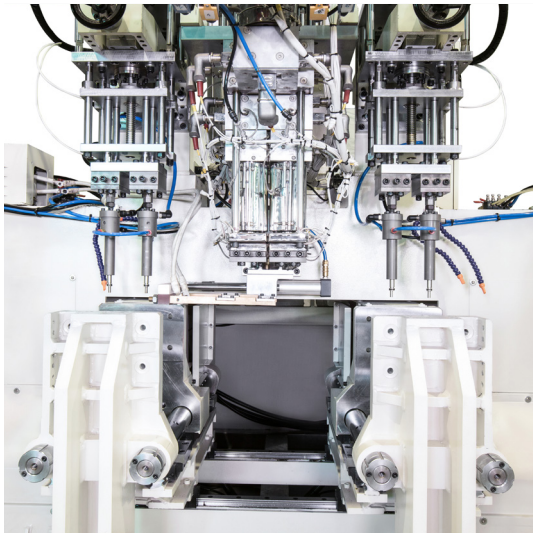
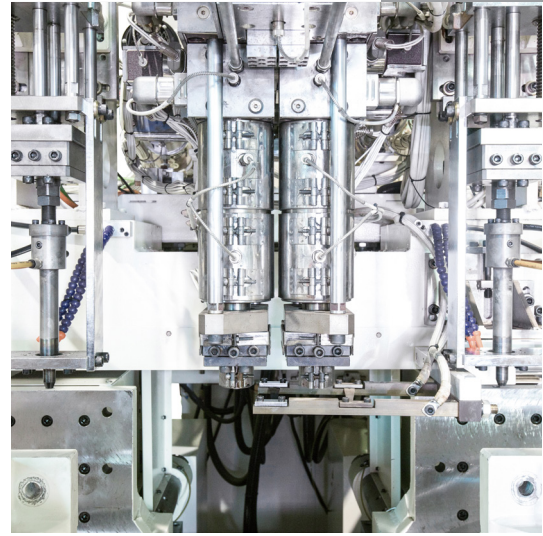
永笠精密機械有限公司

Yong Li Plastic Machinery Co., Ltd





Professional manufacture fully electric multi-layer blow molding machine



專業設計製造全電式多層中空成型機

## About fully electric blow molding machine

Fully electric blow molding machine is with high precision, high stability, energy saving, easy cleaning, low noise, simple maintenance and other outstanding features. Unlike conventional hydraulic machines, fully electric blow molding machine is no oil leaking, does not cause hydrocarbon pollution, and is suitable to produce products that require high purity such as medical supplies, food containers and other related products. Equipped with the six layer die head developed by our company, we are able to produce high gas barrier containers. EVOH layer can block air, slow the deterioration of the filling and therefore extend the expiration period. This is especially suitable for products that are preservative free and drugs that would become deteriorated easily by contacting with air.

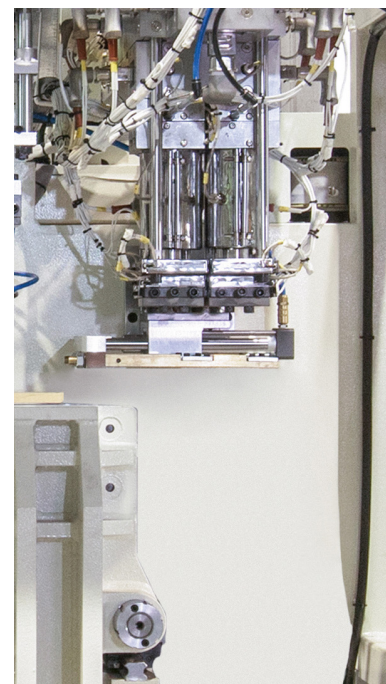
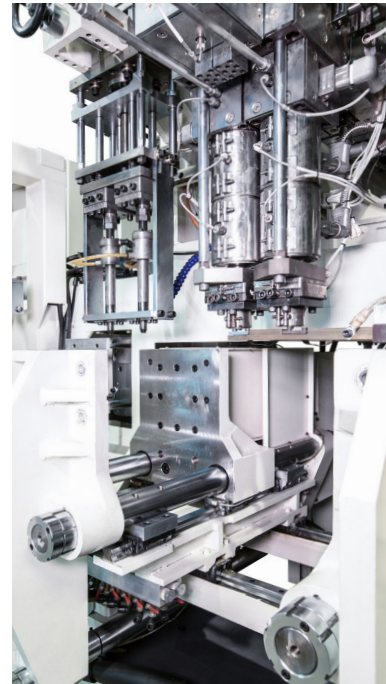
We adopt Siemens control system; high-performance, high-speed, stable, high-precision, 15-inch color touch human-computer, user-friendly operating interface make the operation more convenient and easier. Password protection feature prevents the operator free to change the parameters causing production problems.

Built-in network function is with remote control mode which can perform instant malfunction detection and trouble shooting as well as reduce the maintenance time.

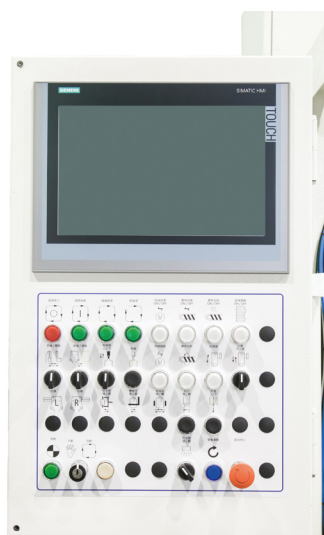
Parison control system: 100 points thickness controller is built-in with memory module which can store 100 sets of production parameters. It can shorten the production time of changing molds.

Safety features: Protection mechanism equipped in the safety door is triggered by opening the door during production. All mechanism movements will stop to protect the safety of operator.

The mechanical structures and control programs were developed entirely by our engineers and are with high technology integration capability. Customized mechanisms and programs are provided according to customer requirements to satisfy customer demand.



## 全電式中空成型機介紹



全電式中空成型機具有高密度、高穩定性、省電、潔淨、低噪音、保養簡單等優異的特性。不同於傳統油壓機，沒有漏油及油氣污染的問題，適合生產高潔淨要求的產品。配上本公司開發完成的六層模頭機構，可生產高組氣性容器。EVOH 阻隔層可阻絕空氣進入瓶內，可讓瓶內的充填物減緩變質，延長內容物的使用期限。適用於不添加防腐劑的食品和容易因接觸空氣而變質的藥品。

採用德國西門子控制系統，性能傑出、高速且穩定性強、精密度高。15 吋彩色觸控人機，人性化的操作介面使操作更加方便容易。分級密碼保護功能可防止操作人員隨意更改參數而導致生產的問題。

內建網路功能具有遠端控制模式，可即時檢測跟排除故障，並能縮短維修時間。

厚薄控制系統：100 點的厚薄控模組內建記憶功能可儲存 100 組生產參數，可以減少更換模具生產調整之時間。

安全防護功能：安全門於生產過程中開啟時會啟動保護機制，所有機構均會停止動作，妥善保護操作人員的安危。

所有機台之機械結構和控制程式完全由本公司內部工程師自行開發，技術整合力極佳。機構和程式可配合客戶需求提供客製化服務，達到顧客滿意的成效！



01

electric double station  
multi layer series

P4-6

02

electric double station series

P7-10

03

electric single station series

P11-14

# EDS-300D-4L

## Die Head

head configuration	cavity	
center diastance	mm	120
product capacity	ml	200-1,000
heating zone	zone	12
parison control points	units	100

## Extruder

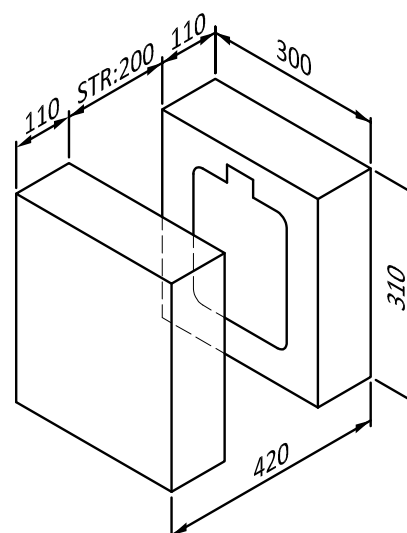
screw diameter	mm	30	30	70	45
screw L/D ratio	L/D	24/1	24/1	24/1	24/1
extruder speed range	rpm	15-60	15-60	15-60	15-60
extruding capacity	kg/hr	5.5	5.5	65	24
extruder motor	kw	2	2	22.5	7.5
heating zone	zone	3	3	3	3
blow air pressure	bar	6-8			
compressed air consupcion	m <sup>3</sup> /min	1.5-2			
machine net weight	ton	8			
machine gross weight	ton	9.5			
machine dimention	m	4x3.5x3.8			
total power	kw	87			

## Clamping

clamping force	ton	6
clamping stroke	mm	200
carriage stroke	mm	400

## Bottle layer configuration

inner layer	EVOH or PA
layer 2	adhesive
layer 3	virgin and regrind
outer layer	virgin and color




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# EDS-300D-5L

由於最外層為 EVOH 其透明跟光亮的外表，使瓶子的質感不同於一般的 PE 瓶子，表面好像包了一層透明膜，這類的產品多用於化妝品。

Because of the EVOH material in the outset layer, the transparent and shinny outlook is different from normal PE bottles. The surface is like coated with transparent film. This type of product is mostly used in cosmetic.

## Die Head

head configuration	cavity	
center diastance	mm	120
product capacity	ml	200-1,000
heating zone	zone	12
parison control points	units	100

## Clamping

clamping force	ton	6
clamping stroke	mm	200
carriage stroke	mm	400

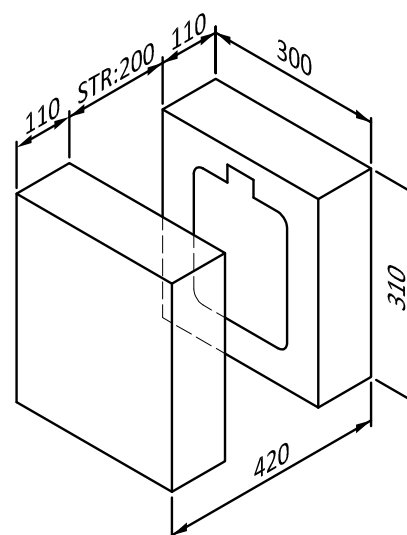
## Extruder

screw diameter	mm	45	60	35	35	40
screw L/D ratio	L/D	24/1	24/1	24/1	24/1	24/1
extruder speed range	rpm	15-60	15-60	15-60	15-60	15-60
extruding capacity	kg/hr	24	45	10	7	14
extruder motor	kw	7.5	11.25	3.5	2.5	5.625
heating zone	zone	3+1	3+1	3+1	3	2+1

blow air pressure	bar	6-8
compressed air consumption	m <sup>3</sup> /min	1.5-2
machine net weight	ton	8
machine gross weight	ton	9.5
machine dimention	m	4x3.5x3.8
total power	kw	87

## Bottle layer configuration

inner layer	virgin
layer 2	virgin and regrind
layer 3	virgin and color
layer 4	adhesive
outer layer	EVOH



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# EDS-300D-6L

主要用於生產六層高阻氣性容器，EVOH 阻隔層可阻絕空氣進入瓶內，可讓瓶內的充填物減緩變質，延長內容物的使用期限，適用於不添加防腐劑的食品和容易因接觸空氣而變質的藥品。

The EVOH barrier layer, mainly for the production of six layer high gas barrier containers, can block air, slow the deterioration of the filling and therefore extend the expiration period. It is suitable for products that are preservative free and drugs that would become deteriorated easily by contacting with air.

## Die Head

head configuration	cavity	
center diastance	mm	120
product capacity	ml	200-1,000
heating zone	zone	12
parison control points	units	100

## Clamping

clamping force	ton	6
clamping stroke	mm	200
carriage stroke	mm	400

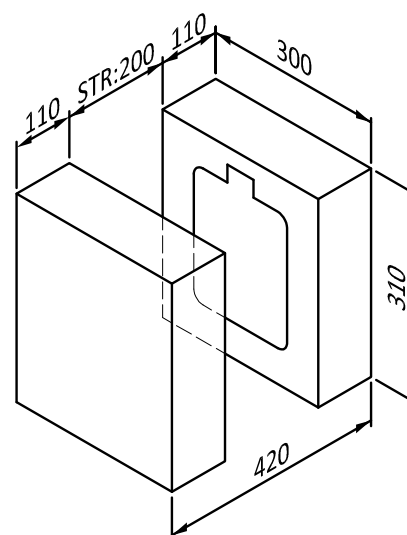
## Extruder

screw diameter	mm	45	60	35	35	40
screw L/D ratio	L/D	24/1	24/1	24/1	24/1	24/1
extruder speed range	rpm	15-60	15-60	15-60	15-60	15-60
extruding capacity	kg/hr	24	45	10	7	14
extruder motor	kw	7.5	11.25	3.5	2.5	5.625
heating zone	zone	3+1	3+1	3+1	3	2+1

blow air pressure	bar	6-8
compressed air consumption	m <sup>3</sup> /min	1.5-2
machine net weight	ton	8
machine gross weight	ton	9.5
machine dimention	m	4x3.5x3.8
total power	kw	87

## Bottle layer configuration




inner layer	virgin
layer 2	virgin and regrind
layer 3	adhesive
layer 4	EVOH
layer 5	adhesive
outer layer	virgin and color



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# EDS-200

## Die Head

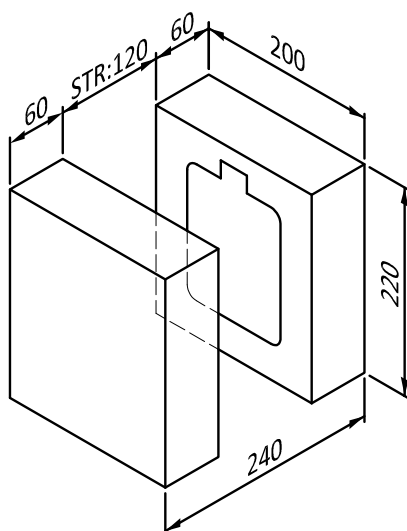
head configuration	cavity			
center diastance	mm		85	75
product capacity	ml	50-500	30-200	10-100
heating zone	zone	4	9	12
parison control points	units		100	

## Extruder

screw diameter	mm	55
screw L/D ratio	L/D	24/1
extruding capacity	kg/hr	38
extruder motor	hp	15
extruder speed	rpm	15-60
heating zone	zone	3

## Clamping





clamping force	ton	2.5
clamping stroke	mm	120
carriage stroke	mm	300
blow air pressure	bar	6-8
compressed air comsption	m <sup>3</sup> /min	0.8-1.4
machine net weight	ton	4
machine gross weight	ton	4.5
machine dimation	m	3.2x3.1x3.2
total power	kw	20.5      22      23.5



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# EDS-250

## Die Head

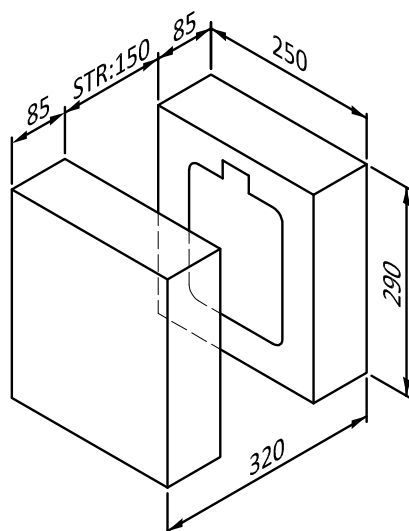
head configuration	cavity				
center diastance	mm		100	85	75
product capacity	ml	80-1,000	50-500	30-200	10-100
heating zone	zone	4	7	11	14
parison control points	units			100	

## Extruder

screw diameter	mm	65
screw L/D ratio	L/D	24/1
extruding capacity	kg/hr	55
extruder motor	hp	20
extruder speed	rpm	15-60
heating zone	zone	3

## Clamping





clamping force	ton	4.5
clamping stroke	mm	150
carriage stroke	mm	370
blow air pressure	bar	6-8
compressed air consumption	m <sup>3</sup> /min	1-1.5
machine net weight	ton	5.5
machine gross weight	ton	6.5
machine dimation	m	3.6x3.3x2.5
total power	kw	37      39      41      43



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# EDS-300

## Die Head

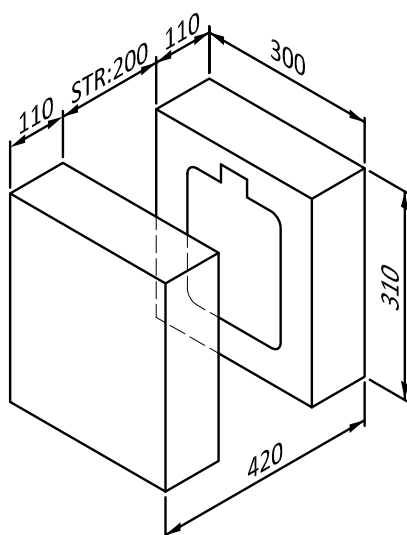
head configuration	cavity				
center diastance	mm		120	100	85
product capacity	ml	450-2,500	200-1,000	50-500	30-200
heating zone	zone	4	7	11	14
parison control points	units	100			

## Extruder

screw diameter	mm	75
screw L/D ratio	L/D	24/1
extruding capacity	kg/hr	75
extruder motor	hp	40
extruder speed	rpm	15-60
heating zone	zone	3

## Clamping





clamping force	ton	6
clamping stroke	mm	200
carriage stroke	mm	400
blow air pressure	bar	6-8
compressed air consumption	m <sup>3</sup> /min	1.5-2
machine net weight	ton	7.5
machine gross weight	ton	9
machine dimation	m	4x3.5x2.9
total power	kw	60      64      66      68



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# EDS-400

## Die Head

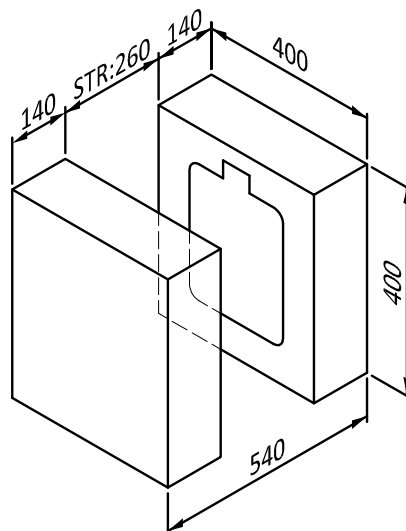
head configuration	cavity				
center diastance	mm		140	120	100
product capacity	ml	1,000-5,000	450-2,000	200-1,000	50-500
heating zone	zone	4	7	11	14
parison control points	units	100			

## Extruder

screw diameter	mm	90
screw L/D ratio	L/D	24/1
extruding capacity	kg/hr	140
extruder motor	hp	60
extruder speed	rpm	15-60
heating zone	zone	4

## Clamping




clamping force	ton	10
clamping stroke	mm	260
carriage stroke	mm	490
blow air pressure	bar	6-8
compressed air consuption	m <sup>3</sup> /min	1.5-2
machine net weight	ton	9
machine gross weight	ton	10.5
machine dimation	m	5x4.2x2.8
total power	kw	89      92      94      100



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# ES-200

## Die Head

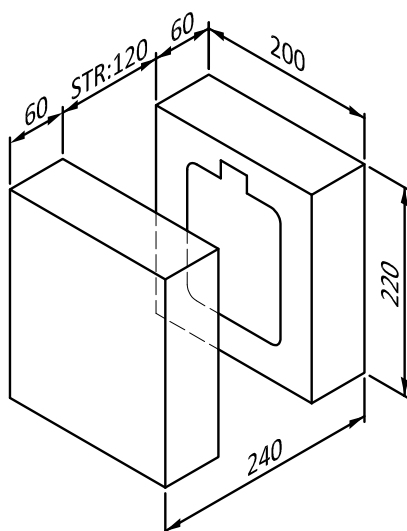
head configuration	cavity			
center diastance	mm		85	75
product capacity	ml	50-500	30-200	10-100
heating zone	zone	4	9	12
parison control points	units		100	

## Extruder

screw diameter	mm	40
screw L/D ratio	L/D	24/1
extruding capacity	kg/hr	14
extruder motor	hp	7.5
extruder speed	rpm	15-60
heating zone	zone	3

## Clamping





clamping force	ton	2.5		
clamping stroke	mm	120		
carriage stroke	mm	300		
blow air pressure	bar	6-8		
compressed air comsption	m <sup>3</sup> /min	0.4-0.7		
machine net weight	ton	3		
machine gross weight	ton	3.5		
machine dimation	m	2.7x1.9x2.9		
total power	kw	18.5	19.6	20.8



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# ES-250

## Die Head

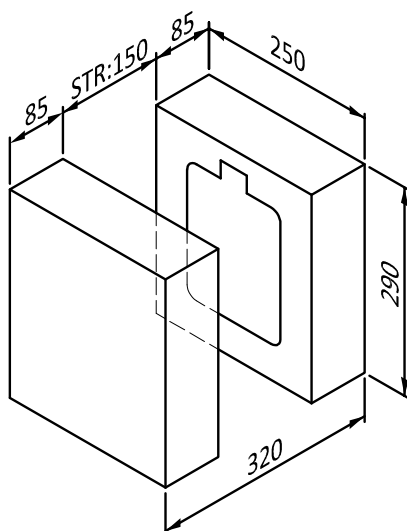
head configuration	cavity				
center diastance	mm		100	85	75
product capacity	ml	80-1,000	50-500	30-200	10-100
heating zone	zone	4	7	11	14
parison control points	units			100	

## Extruder

screw diameter	mm	45
screw L/D ratio	L/D	24/1
extruding capacity	kg/hr	24
extruder motor	hp	10
extruder speed	rpm	15-60
heating zone	zone	3

## Clamping





clamping force	ton	4.5
clamping stroke	mm	150
carriage stroke	mm	370
blow air pressure	bar	6-8
compressed air consumption	m <sup>3</sup> /min	0.5-0.8
machine net weight	ton	3.5
machine gross weight	ton	4
machine dimation	m	3x2.3x2.5
total power	kw	28      30      32      33



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# ES-300

## Die Head

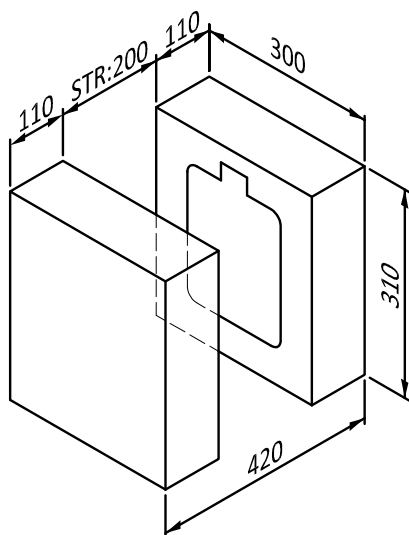
head configuration	cavity				
center diastance	mm		120	100	85
product capacity	ml	450-2,500	200-1,000	50-500	30-200
heating zone	zone	4	7	11	14
parison control points	units	100			

## Extruder

screw diameter	mm	55
screw L/D ratio	L/D	24/1
extruding capacity	kg/hr	38
extruder motor	hp	15
extruder speed	rpm	15-60
heating zone	zone	3

## Clamping

clamping force	ton	6
clamping stroke	mm	200
carriage stroke	mm	400
blow air pressure	bar	6-8
compressed air consuption	m <sup>3</sup> /min	0.6-0.9
machine net weight	ton	4
machine gross weight	ton	4.7
machine dimation	m	3.5x2.4x2.7
total power	kw	28      30      32      33







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# ES-400

## Die Head

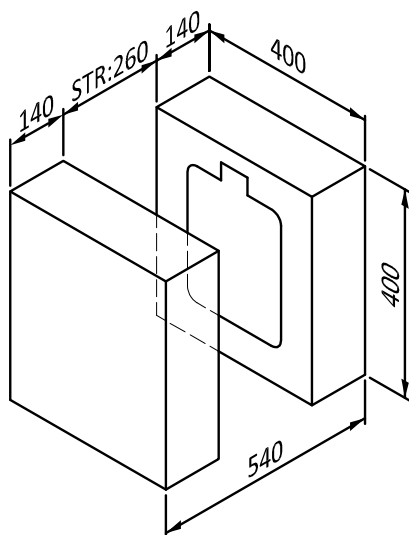
head configuration	cavity				
center diastance	mm		140	120	100
product capacity	ml	1,000-5,000	450-2,000	200-1,000	50-500
heating zone	zone	4	7	11	14
parison control points	units	100			

## Extruder

screw diameter	mm	65
screw L/D ratio	L/D	24/1
extruding capacity	kg/hr	55
extruder motor	hp	20
extruder speed	rpm	15-60
heating zone	zone	3

## Clamping

clamping force	ton	10
clamping stroke	mm	260
carriage stroke	mm	490
blow air pressure	bar	6-8
compressed air consumption	m <sup>3</sup> /min	0.7-1
machine net weight	ton	5
machine gross weight	ton	5.7
machine dimation	m	3.7x2.5x2.5
total power	kw	41      43      45      50



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