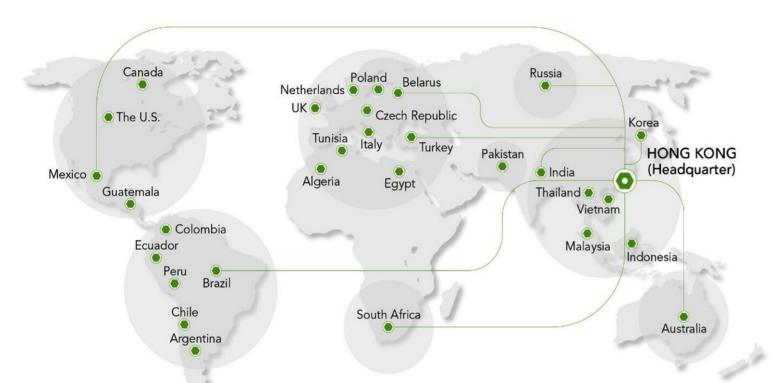
Our offices and agents





KII series (60-660Ton)

Essential and versatile general purpose injection moulding machine



Welltec Machinery Ltd















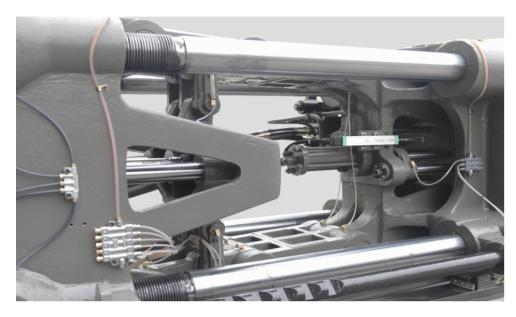
Essential and versatile general purpose injection moulding machine

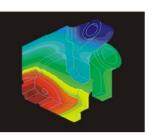


GREENLINE





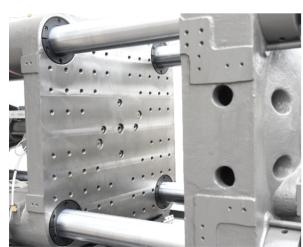






Clamping Unit

- High rigidity design
- The toggle's special heat-treated steel case enables higher wear resistance
- Optimised platen to cater for a range of mould thickness
- High pressure lubrication system adopted in clamping unit to support machine protection during high speed production





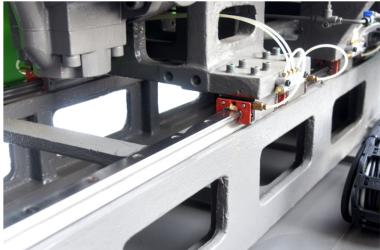
Injection Unit

- The new design of the plasticising components supports better plasticising performance
- Diagonally located cylinders to facilitate better stress distribution
- Linear guide rail significantly reduces mechanical wear and tear (90-660 KII)











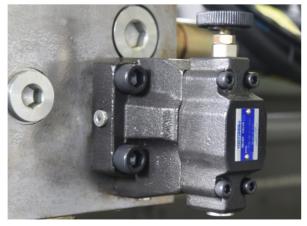


Hydraulic System

- Efficient and stable servo hydraulic system
- Minimised energy loss attained through the advanced hydraulic pipeline design
- Low-noise













- Intelligent auto-tuning for mold open / close speed, pressure and position to minimize manual adjustments
- 6-stage injection, 5-stage pressure holding, 5-stage plasticizing coupled with pressure flow curve display
- Screw RPM display and barrel preheating function
- 500 sets of mold data and 2,000 sets of SPC record. Data export to EXCEL for analysis
- Quick system response with high precision control
- Free core-pull programming
- Non battery reliance for permanent system data storage
- USB disk to backup IO, system data, mold data and system software update
- Ready for extension of IO, temperature control and analog modules
- Multi-languages user interface
- iSee 4.0 cloud-based machine monitoring, remote technical diagnosis and supports (optional)













Essential and versatile general purpose injection moulding machine



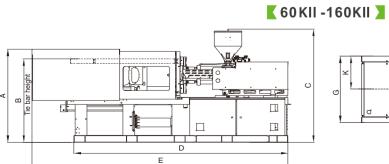


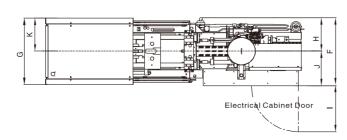
Specifications

ITEM	UNIT	60 KII		90 KII			130 KII			160 KII		
		600-180		900-287			1300-433			1600-629		
Injection Unit												
Screw diameter	mm	25	30	35	40	35	40	45	40	45	50	
Theoretical shot volume	cm ³	69	124	168	220	192	251	318	283	358	442	
Shot weight (PS)	g	63	113	153	200	175	229	289	257	326	402	
Shot weight (PS)	oz	2.2	4.0	5.4	7.1	6.2	8.1	10.2	9.1	11.5	14.2	
Length/diameter ratio	L/D	22	24	20.6	18	23.4	20.5	18.2	22.5	20	18	
Injection pressure	MPa	261	254	186	143	225	172	136	223	176	142	
Injection rate	cm³/sec	66	70	95	124	93	122	154	124	158	195	
Injection stroke	mm	140		175			200			225		
Max. screw speed	rpm	300		200			205			232		
Plasticising capacity (PS)	g/s	7.4	9.4	10.5	15.4	11.9	16.2	20.0	19.6	25.4	28.4	
Injection unit force	Ton	3.4		5.7			5.7			5.7		
Carriage stroke mm		255	230			300			320			
Clamping Unit												
Clamping force Ton		60		90		130			160			
Max. daylight mm		680		680		820			906			
Clamping stroke	mm	320	320			410			446			
Distance btwn. tie bars	mm	360x360		360x360		410x410			460x460			
Min. mould dimension	mm	250x250		250x250		280x280			320x320			
Mould thickness range	mm	150~360		150~360		150~410			150~460			
Ejector force	Ton	4.2	4.2			4.2			4.9			
Ejector stroke	mm	85		85		100			130			
No. of ejector pins	unit	5		5			5			5		
Power Unit												
Max. motor power	kW	11.8		11.8			15.7			17.3		
System pressure	MPa	17.5		17.5		17.5			17.5			
Hydraulic pump capacity	L/min	61	61			72			95			
No. of heating zones	unit	4+1	3+1+1			3+1+1				4+1+1		
Heating power	kW	6.02	7.41			9.3		11.48				
Total power	kW	18.82	20.21		26			29.78				
Total current	Α	25.7		27.6		35.6			40.7			
General												
Machine weight	Ton	2.85		2.92			3.94			4.86		
	ght Ton 2.85 pacity L 150		150			175			220			

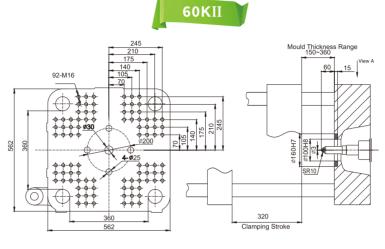
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Machine Dimensions

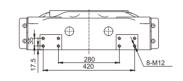


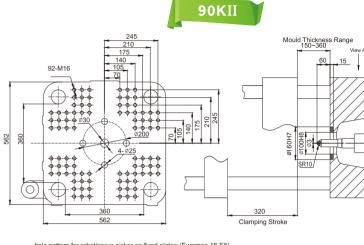


Platen/Nozzle Dimensions

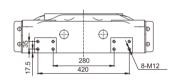


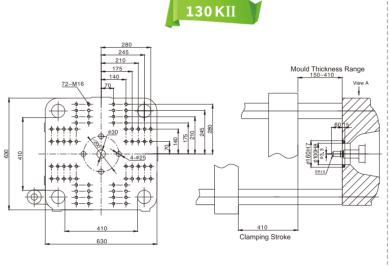
hole pattern for robot/sprue picker on fixed platen (Euromap 18-E6)



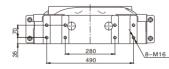


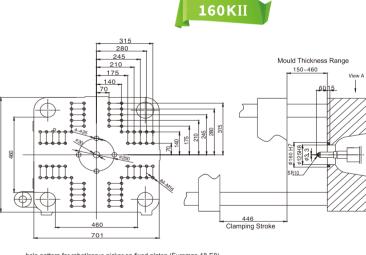
hole pattern for robot/sprue picker on fixed platen (Euromap 18-E6)



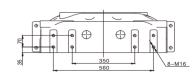


hole pattern for robot/sprue picker on fixed platen (Euromap 18-E7)





hole pattern for robot/sprue picker on fixed platen (Euromap 18-E8)



Model	A	В	С	D	E	F	G	Н	ı	J	K
60KII	1574	1410	1955	3340	3870	1063	1068	506	830	557	544
90KII	1574	1410	1955	3340	3870	1063	1068	506	830	557	544
130KII	1670	1502	2023	3665	4383	1147	1158	545	830	602	574
160KII	1778	1597	2085	4015	4772	1309	1206	602	800	707	605

Remark: C-hopper height for reference only

Specifications

Injection Unit
Screw diameter

Shot weight (PS)

Shot weight (PS)

Length/diameter ratio

Injection pressure

Injection rate

Injection stroke

Max. screw speed

Injection unit force

Clamping Unit

Carriage stroke

Clamping force

Clamping stroke

Distance btwn. tie bars

Min. mould dimension

Mould thickness range

Max. daylight

Ejector force

Power Unit
Max. motor power

Ejector stroke

No. of ejector pins

System pressure

No. of heating zones

Heating power

Total power

General

Total current

Machine weight
Oil filling capacity

Hydraulic pump capacity

Plasticising capacity (PS)

Theoretical shot volume

ITEM

Essential and versatile general purpose injection moulding machine

45

398

362

12.8

24

219

150

22.5

190KII

1900-871

491

447

15.8

21.6

177

185

250

185

28.0

9.1

350

190

1000

490

510X510

350X350

175~510

4.9

140

5

23

17.5

112.5

4+1+1

14.25

38.25

52.3

5.96

275

707

643

22.7

123

266

34.2

260 KII

2600-1507

60

848

772

27.3

21

178

228

300

47.0

9.1

400

260

1130

550

580X580

400X400

200~580

6.7

160

9

31.4

17.5

139

5+1

18.9

51.3

70.2

7.64

340

70

1155

1051

37.1

18

131

310

141

42.6

60

919

836

29.5

22.5

210

244

39.5

55

713

649

22.9

22.9

211

191

31. 9

320KII

3200-1930

65

1078

981

34.7

20.8

179

287

325

179

44.3

9.1

400

320

1275

615

660X660

460X460

250~660

6.7

180

13

32

17.5

176

5+1

22.15

55.15

75.4

10.5

430

75

1436

1307

46.2

18

134

382

62.3

65

1244

1132

40.0

23.9

231

278

53.4

400KII

4000-2868

75

1657

1508

53.3

20.7

173

371

375

157

71.8

12

435

400

1530

780

740X740

520X520

250~750

16.6

210

13

46.1

17.5

220

5+1

28.99

76.09

104.0

14.68

540

2128

1936

68.4

18.3

135

476

92.8

UNIT

mm

οz

L/D

MPa

cm³/sec

mm

rpm

g/s

Ton

mm

Ton

mm

mm

mm

mm

Ton

mm

unit

kW

MPa

L/min

unit

kW

kW

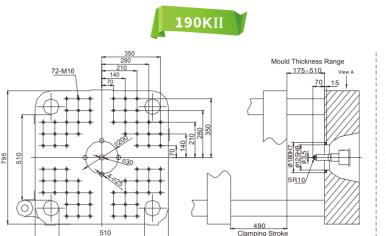
Α

Ton

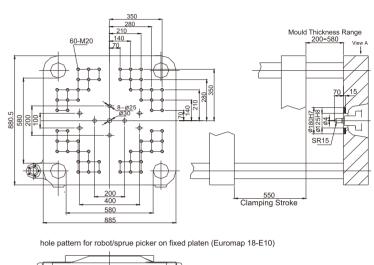




Platen/Nozzle Dimensions

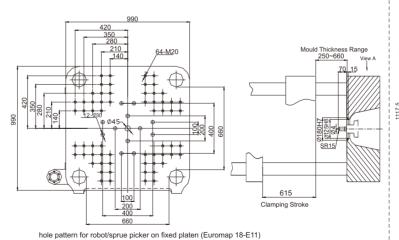


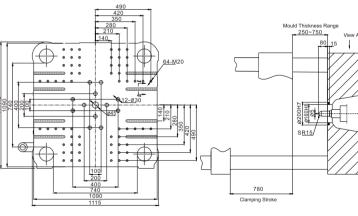




260KII

320KII





hole pattern for robot/sprue picker on fixed platen (Euromap 18-E12)

650

674

751

874

800

800

800

732

792

871

909

641

690

734

880

400KII

В С D Е G 190KI 1840 1650 2120 4332 5153 1322 1282 5764 260KII 1914 1722 2086 4855 1466 1380

2192

2284

5211

6780

6210

7744

1622

1783

1496

1760

Remark: C-hopper height for reference only

2052

2176

1917

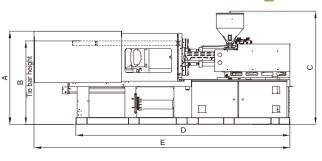
1923

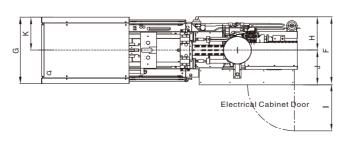
320KII

400KII

■ We are always working on improvement and reserve the rights to change design and specifications without prior notice Machine Dimensions

【190KII−400KII】





Specifications

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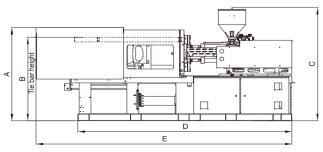


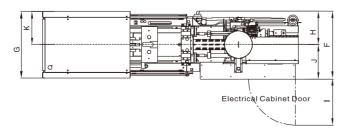
ITEM	UNIT		480KII		530KII			560KII			660KII		
		4800-3508			5300-4762			5600-4762			6600-4762		
Injection Unit													
Screw diameter	mm	70	80	94	80	90	105	80	90	105	80	90	105
Theoretical shot volume	cm ³	1539	2011	2776	2212	2799	3810	2212	2799	3810	2212	2799	381
Shot weight (PS)	g	1401	1830	2526	1991	2519	3429	1991	2519	3429	1991	2519	342
Shot weight (PS)	OZ	49.5	64.7	89.3	70.3	89.0	121.2	70.3	89.0	121.2	70.3	89.0	121
Length/diameter ratio	L/D	24.2	21.2	18	23.6	21	18	23.6	21	18	23.6	21	18
Injection pressure	MPa	228	174	126	215	170	125	215	170	125	215	170	12
Injection rate	cm ³ /sec	352	460	635	477	603	821	477	603	821	477	603	82
Injection stroke	mm		400			440			440			440	
Max. screw speed	rpm		170			148			148		148		
Plasticising capacity (PS)	g/s	72.7	94.3	131.3	80.4	97.5	147.5	80.4	97.5	147.5	80.4	97.5	147
Injection unit force	Ton		12			20.4			20.4			20.4	
Carriage stroke	mm	480		600		600		600					
Clamping Unit													
Clamping force	Ton		480		530		560		660				
Max. daylight	mm		1600		1700		1730		1830				
Clamping stroke	mm		780		850		880			910			
Distance btwn. tie bars	mm		820X800)	840x830		860 × 840			920 x920)		
Min. mould dimension	mm		570x560		580X580		600x590			645x645	5		
Mould thickness range	mm		300~820)	300-850		350~850		350-920				
Ejector force	Ton		16.6		16.6		16.6			16.6			
Ejector stroke	mm		240		240		240			290			
No. of ejector pins	unit		13		17		17			21			
Power Unit													
Max. motor power	kW		56.5			73.3			73.3			73.3	
System pressure	MPa		17.5		17.5			17.5			17.5		
Hydraulic pump capacity	L/min		275		352		352		352				
No. of heating zones	unit	5+1		5+1		5+1		5+1					
Heating power	kW	35.04		35.73		35.73			35.73				
Total power	kW		92.54		110.03		110.03			110.03			
Total current	А		126.5		150.5		150.5			150.5			
General													
Machine weight	Ton		16.72		23			23				26	
Oil filling capacity	L		720			775			1000			1000	

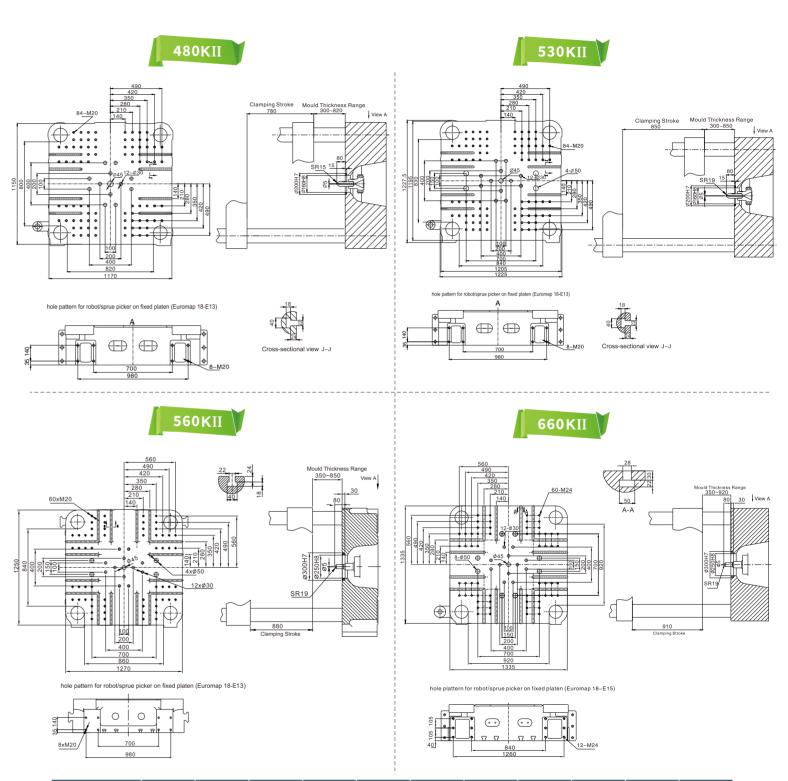
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Machine Dimensions

【480KII−660KII**】**







Mode	el	A	В	С	D	E	F	G	H		J	K
480K	II 2	2246	1985	2336	7006	8025	1797	1874	855	800	942	937
530K	II 2	2244	2005	2495	7846	8995	1809	1900	865	800	945	950
560K	II 2	2220	2085	2545	7643	8903	2193	1791	1420	850	960	895.5
660K	II 2	2280	2125	2545	7783	9157	2193	1942	1420	850	960	971

Remark: C-hopper height for reference only

Essential and versatile general purpose injection moulding machine





Standard and Optional Features



nio stian Iluit	
njection Unit	
Linear transducer for injection position control	
Proximity switch for carriage position control	•
General purpose nitriding screw	•
Movable hopper (90-190T)	•
Fixed hopper (260-660T)	•
Nozzle protective cover	•
Barrel protective cover	•
Diagonal layout of carriage cylinders	•
Anti-drooling function	•
Automatic purging system	•
Automatic injection failure detection	•
Screw cold start prevention	•
Heater on/ off switch	•
lozzle centre adjustment device	•
5 stages injection control	•
5 stages holding pressure control	•
5 stages plasticising RPM control	•
3 stages carriage forward. 3 stage carriage backward	•
Inlarged / reduced one step injection unit	0
Stainless steel hopper	0
Extended nozzle	0
Spring-loaded nozzle	0
lydraulic/ Pneumatic shut-off nozzle	0
Bi-mettalic screw and barrel set	0
Mixing head	0
Clamping Unit	
Optimised 5 points double toggle clamping	•
inear transducer for mould position	•
Automatic lubrication system	•
Centralised lubrication for mould height adjustment (no pump)	•
Aultiple ejector modes	•
General mounting pattern	•
Machine frame guide rail with anti-abrasive steel	•
ow pressure mould protection	
S stages opening speed with pressure adjustment	
I stages opening speed with pressure adjustment	
	•
Safety guard for product dropout chute Mechanical safety interlock (90-660T)	
	•
ncrease mould thickness	0
Quick mould change system (T-slot necessary)	0
ncrease ejector force / stroke	0
European style ejector	0
jector holes (EUROMAP standard)	0
Mould hanger	0
Retractable tie bar	0

Undernia IIaia	standard ●	optiona
Hydraulic Unit Energy saving servo motor and pump set		
High precision bypass oil filter	•	
	•	
Manual back-pressure control with pressure gauge display	•	
Hydraulic oil temperature display with limit alarm	•	
Safety wire for high pressure hydraulic hoses	•	
Non-return check valve for injection carriage	•	0
2 sets of core pulling (movable platen)		0
Unscrew device with motor		0
Enlarged air blast		0
2 sets of pneumatic core pulling		0
Enlarged one step pump and motor		0
Enlarged one step plasticising motor		0
Hydraulic safety		0
4 sets of pneumatic sequential injection		0
Control Unit and Electric Components		
AS10 control system (90-1800T)	•	
TFT LCD display and touchscreen keyboard (90-660T)	•	
PID closed-loop temperature control	•	
Screw RPM sensor	•	
Automatic fault display	•	
Production counter Production counter	•	
380V 50Hz	•	
380V 32A socket (1set)	•	
380V 16A socket (1set)	•	
Electrical safety interlock	•	
Emergency stop at operation side	•	
500 sets mould data storage with USB	•	
3 levels password protection	•	
SPC for production	•	
IP54 protection cabinet	•	
Automatic door		0
Extra power socket		0
Voltage stabiliser		0
Voltage meter		0
Ceramic/ infrared heater bands		0
Circuit check for heater bands		0
Robot interface (EUROMAP 12)		0
Lighting for front and rear guard door		0
Air conditioner for electric cabinet		0
Others		
Water flow valve	•	
Semi- enclosed injection safety guard	•	
Clamping safety guard	•	
Spare parts Spare parts	•	
Quick fitting for water flow valve		0
Water flow regulator		