

# High-speed Packing Injection Moulding Application



The Passionate Pursuit of Perfection  
[en.bole-machinery.com](http://en.bole-machinery.com)

**BOLE Customer Service Center**

## **BOLE MACHINERY**

ADD: No.99 Weisan Road, Xiaogang, Ningbo, China

PC: 315821

TEL: +86-574-86188007

FAX: +86-574-86188008

E-mail: [bole-sales@bole-machinery.com](mailto:bole-sales@bole-machinery.com)

THIS CATALOGUE ARE PROTECT BY LAW OF COPY RIGHT.  
ANY USE WITHOUT THE EXPRESS PERMISSION OF THE LAW OF COPY RIGHT,  
MUST GET APPROVAL OF BOLE IN ADVANCE.

THIS VERSION WAS PRINTED IN Mar. 2022,  
ANY DIFFERENCE SPECIFICATION FROM OLD VERSION SHOULD BE SUBLCT TO THIS VERSION.



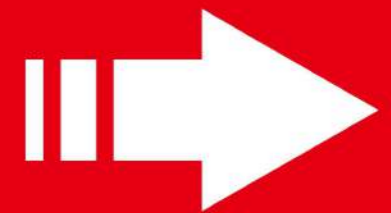
Injection Moulding Machine



As an innovation pioneer in the injection moulding machine market, our injection moulding technology accumulated according to different market needs and customer industry conditions will become your technical backup database during production.

We are responsible for the best production efficiency of our customers. All BOLE high-speed packaging injection moulding equipment have the concept of high efficiency and energy saving. BOLE can not only enhance product quality, reduce costs, and improve economic efficiency, but also protect corporate environmental resources.

## BOLE HIGH-SPEED INJECTION MOULDING MACHINES



Bole Packing Technology | China Hi-tec Inetelligence | Meeting all requirements

# Bole Packing Technology

- **Energy saving:** efficient energy conversion, further saving energy
- **High efficiency:** multiple synchronous actions to achieve the shortest moulding cycle
- **Precision:** high positioning accuracy up to 0.01 mm level to ensure product quality (electrical clamping is optional)
- **High speed:** ACC assists in achieving high-speed injection to meet the moulding needs of thin-walled, packaging and other special products
- **Quiet:** low noise, more comfortable working environment



**BOLE**

Energy saving  
High efficiency  
Precision  
High speed  
Quiet  
.....

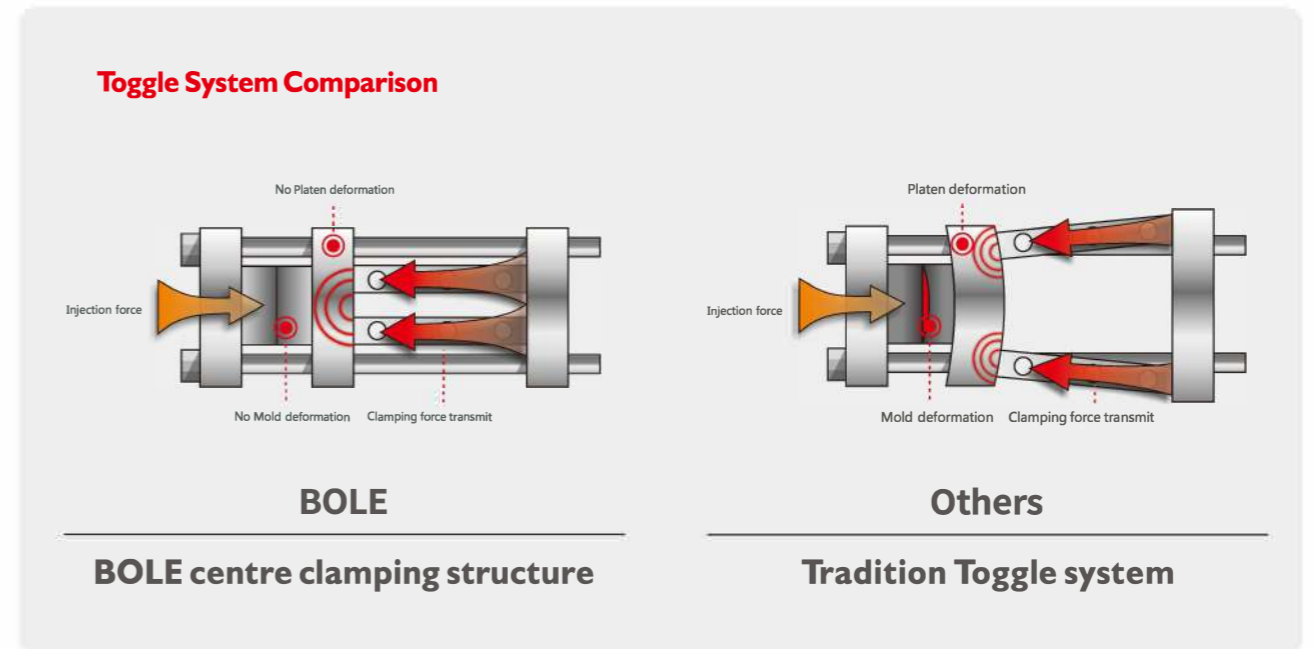
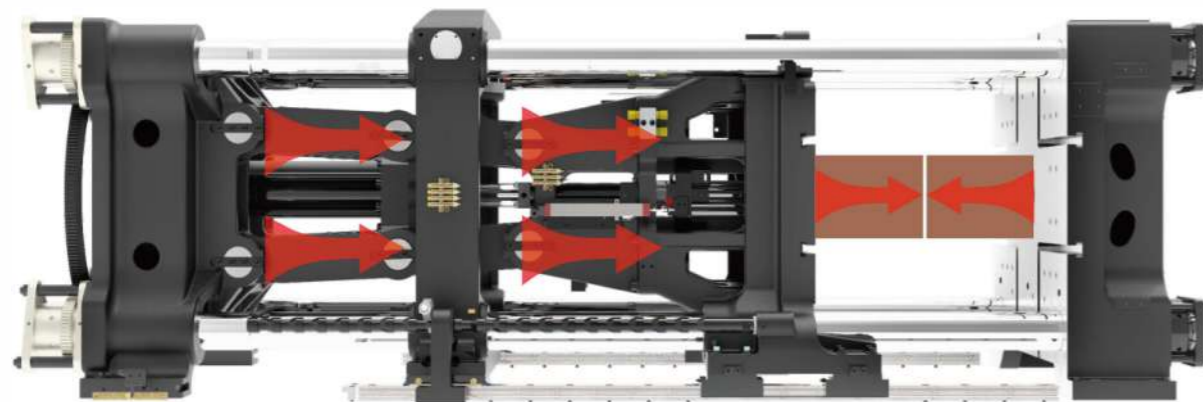


Energy saving High efficiency  
Precision  
High speed  
Quiet



# Clamping unit National invent patent Center locking

- The whole series adopts a central mould clamping structure and optimized connecting tie bar parameters, and cooperates with oil-containing steel sleeves to reduce high-speed running wear problems, longer life, and more stable operation of mould opening and closing
- The whole series of clamping part and injection part adopt linear guide structure.
- EKS FES HK standard with linear guide in the mould clamping part to improve the running stability and accuracy.
- With ACC injection control, the response time is less than 25ms.  
With high-frequency response valve to achieve precise position control
- Standard multi-stage ejection function, which can realize pulse ejection



**01** High clamping force efficiency

**02** Material Saving

**03** High accuracy  
Less possibility of flash

**04** Offer good protection to mould and platens

**05** Suitable for small mould

**06** Big open stroke

# Injection Unit



- The injection speed needs matching different models, from 350mm/s to 600mm/s, which fully meets the current thin-wall moulding requirements of the packaging industry
- HK injection unit is with special single injection cylinder design and injection rod is not rotating with screw, which will be no oil leakage risk.

## German design plasticizing system

- The plasticizing system designed from Germany: the special plasticizing system is customized for the commonly used plastics in the packaging industry, and the plasticizing efficiency far exceeds the domestic level by more than 20%
- Special plasticizing systems for various complex degradable materials and special process requirements can be customized



# Control Unit

<b>1</b> ms	<b>I/O</b> Module	<b>PC</b> Port
<b>4.0</b> Germany	<b>XFC</b> Control	<b>0.01</b> Precision



- Full series of standard original imported B&R/KEBA/ EST high-end control system, scanning cycle is less than 1ms
- Bole's unique patented injection control technology can effectively reduce the consumption of raw materials and improve the quality of molded products
- German Industry 4.0 standard, easy-to-implement intelligent manufacturing technology
- Standard SM third-generation low-inertia servo system, the fastest response time is 35ms, energy saving is up to 50%
- The standard multi-stage ejection function can realize pulse ejection.

# NEXT

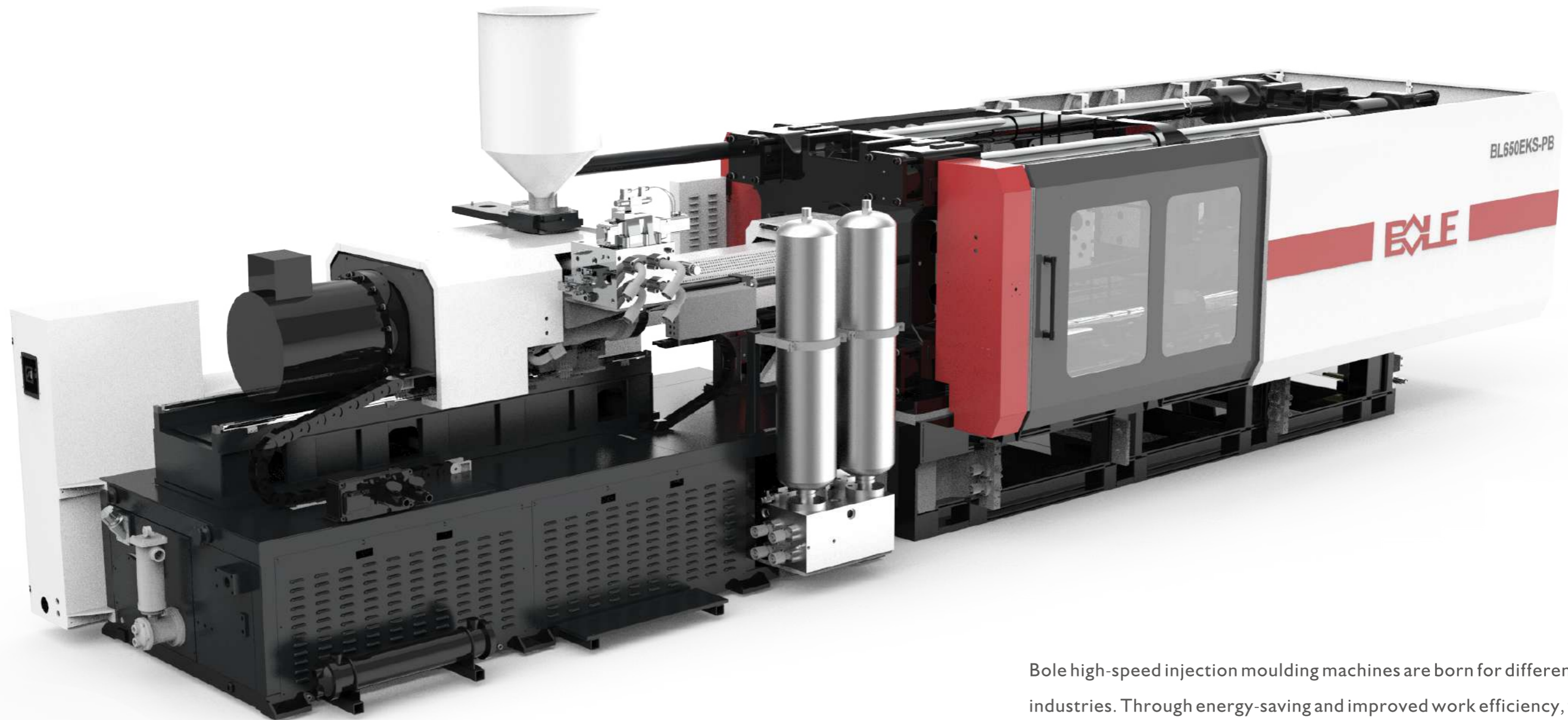
HIGH-SPEED PACKAGING MACHINE

## contents

- EKS-CAP center-locking high-speed packaging machine
- EKS-PB center-locking barrel type high-speed packaging machine
- HK thin-walled high-speed packaging machine
- EKH Center Clamping Commodity Fast Packing Machine

# BOLE FOR YOU

Specialized on High-speed packing application-  
professional and specific solutions



Bole high-speed injection moulding machines are born for different packaging industries. Through energy-saving and improved work efficiency, we can provide you with the maximum production efficiency by all means, enhancing your core competitiveness.



plasticizing efficiency far exceeds the domestic level by **more than 20%**



- Fully hydraulically driven, the injection unit adopts ACC auxiliary injection, the maximum shooting speed is 600mm/S;
- The special plasticizing system is customized for commonly used plastics in the packaging industry, and the plasticizing efficiency far exceeds the domestic level by more than 20%;
- Optional e-charging unit to realize synchronous pre-plasticizing function.
- European standard platen size, suitable for bottle caps, thin-walled multi-cavity products, and products with higher requirements for moulding cycle.

## EKS-CAP center-locking high-speed packaging machine





# EKS-CAP center-locking high-speed packaging machine Technical Data

	UNIT	BL170EKS-CAP		BL230EKS-CAP		BL300EKS-CAP		BL360EKS-CAP		BL360EKS-CAP/SP		BL420EKS-CAP		BL500EKS-CAP		BL500EKS-CAP/SP		BL650EKS-CAP	
		C840		C1450		C2050		C3000		C3000(Singgle cylinder)		C3200		C3700		C3800(Singgle cylinder)		C4800	
International specification		1700/C840		2300/C1450		3000/C2050		3600/C3000		3600/C3000		4200/C3200		5000/C3700		5000/C3800		6500/C4800	
Screw specifications		A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
Screw diameter	mm	45	50	55	60	60	70	65	75	65	75	70	80	75	80	75	80	80	90
Screw L/D ratio		25	23	25	23	25	23	25	23	25	23	25	23	25	23	25	23	25	23
Theoretical injection capacity	cm <sup>3</sup>	397	491	689	820	918	1250	1227	1634	1227	1634	1423	1859	1832	2085	1832	2085	2286	2893
Shot weight	g(PS)	366	451	634	754	845	1150	1129	1503	1129	1503	1309	1710	1686	1918	1686	1918	2103	2662
	g(PP)	290	358	503	598	670	913	896	1193	896	1193	1039	1357	1338	1522	1338	1522	1669	2112
	oz(PS)	12.9	15.9	22.4	26.6	29.9	40.6	39.9	53.1	39.9	53.1	46.3	60.4	59.6	67.8	59.6	67.8	74.3	94.1
	oz(PP)	10.3	12.7	17.8	21.1	23.7	32.2	31.7	42.1	31.7	42.1	36.7	47.9	47.3	53.8	47.3	53.8	59.0	74.6
Injection rate into Air	cm <sup>3</sup> /s	795	981	1187	1413	1272	1731	1245	1657	3317	4416	1444	1886	1545	1758	3091	3517	1758	2225
	g/S(PS)	723	893	1080	1286	1157	1575	1133	1508	3018	4018	1314	1716	1406	1600	2813	3200	1600	2025
	g/S(PP)	528	652	789	939	845	1150	827	1101	2203	2933	959	1253	1027	1168	2053	2336	1168	1478
Injection pressure(Max. 400℃)	bar	2191	1775	2114	1777	2263	1663	2460	1848	2454	1843	2243	1717	2039	1792	2103	1848	2100	1659
Injection stroke	mm	250		290		325		370		370		370		415		415		455	
Max. injection speed (Under 100 bar injection pressure)	mm/s	500		500		450		375		1000		375		350		700		350	
Screw speed	r/min	280		260		218		164		250		164		168		250		168	
Theoretical plasticizing speed	g/S(PS)	31	42	43	57	44	65	39	57	59	87	45	65	84	100	126	149	96	128
Theoretical plasticizing speed	g/S(PP)	25	33	35	45	35	52	31	45	47	69	36	51	67	79	100	118	77	101
Sys. Pressure	MPa	17.5		17.5		17.5		17.5		18.0		18.5		17.5		17.5		17.5	
Pump Motor(Min~Max)	kW	26.7+26.7		40.9+40.9		50.7+40.9		50.7+50.7		60.5+50.7+13.4		50.7+50.7		60.5+60.5		60.5+60.5+16.7+3.7		60.5+60.5	
Number of Motors	PC	2		2		2		2		2		2		2		2		2	
Pre-plastic motor power	KW	19.6(optional)		26.7(optional)		65.4(optional)		65.4(optional)		65.4(standard)		65.4(optional)		78.5(optional)		78.5(standard)		78.5(optional)	
Pump motor(Min~Max)	KW	53.3(72.9 optional)		81.8(108.5 optional)		91.6(157 optional)		101.4(166.8 optional)		190(standard)		101.4(166.8 optional)		124(202.5 optional)		220(standard)		124(202.5 optional)	
Heater power	kW	16.2		18.5		26.2		31.4		31.4		31.4		35.5		35.5		35.5	
Number of Temp. control zones		4+2		4+2		4+2		4+2		4+2		5+2		5+2		5+2		5+2	
Clamping force	kN	1700		2300		3000		3600		3600		4200		5000		5000		6500	
Opening stroke	mm	530		580		660		750		750		850		950		950		1050	
Space between tie bar	mmxmm	560×510		660×610		710×660		810×760		810×760		860×800		960×860		960×860		1060×960	
Min. mould height	mm	220		240		270		300		300		350		400		400		450	
Max. mould height	mm	580		680		720		820		820		880		1000		1000		1100	
Max. mould weight(moving platen/fixed platen)	KG	1100	600	1800	900	2200	1100	3300	1700	3300	1700	4400	2200	7300	3800	7300	3800	7300	3800
Max. daylight	mm	1110		1260		1380		1570		1570		1730		1950		1950		2150	
Ejector stroke	mm	150		190		190		210		210		220		240		240		270	
Ejector force forward	kN	67		68		116		116		116		154		154		154		198	
Ejector force back	kN	39		44		72		72		72		110		110		110		129	
Number of ejector bar	PC	9		13		13		17		17		17		21		21		21	
Dry cycle period	S-mm	1.7/392		1.8/462		2.2/497		2.6/567		2.6/567		3.0/602		3.5/672		3.5/672		3.5/742	
Hopper capacity	kg	50		50		50		50		50		100		100		100		100	
Oil tank capacity	L	280		350		420		500		500		750		850		850		1000	
Machine dimensions (L×W×H)	mxmxxm	5.9x1.7x2.4		6.6x1.8x2.4		7.4x2x2.5		8.1x2.2x2.5		8.1x2.2x2.5		9x2.3x2.9		9.7x2.4x3		9.7x2.4x3		10.5x2.7x3	
Machine weight	Ton	7		9		12.5		16		16		20		25		25		31	

# EKS-PB center-locking barrel type high-speed packaging machine

Fully hydraulic drive, increase the opening stroke, suitable for deep cavity product, the injection unit adopts ACC auxiliary injection, the maximum shooting speed is 600mm/S

The special plasticizing system is customized for commonly used plastics in the packaging industry, and the plasticizing efficiency far exceeds the domestic level by more than 20%

Optional e-charging unit realizes synchronous pre-plasticizing function

Suitable for packaging barrels, thin-walled and deep-cavity products



**EKS-PB center-locking barrel type high-speed packaging machine**

## EKS-PB center-locking barrel type high-speed packaging machine Technical Data

	UNIT	BL350EKS-PB		BL550EKS-PB		BL550EKS-PB		BL650EKS-PB		BL650EKS-PB		BL650EKS-PB		BL1000EKS-PB		BL1000EKS-PB	
		C2050(High speed)		C4800		C4800(High speed)		C4800(standard)		C4800		C4800(High speed)		C10000		C10000(High speed)	
International specification		3500/C2050		5500/C4800		5500/C4800		6500/C4800		6500/C4800		6500/C4800		10000/C10000		10000/C10000	
Screw specifications		A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
Screw diameter	mm	60	70	80	85	80	85	80	85	80	85	80	85	100	110	100	110
Screw L/D ratio		25	23	25	25	25	25	25	25	25	25	25	25	25	25	25	25
Theoretical injection capacity	cm <sup>3</sup>	918	1250	2286	2581	2286	2581	2286	2581	2286	2581	2286	2581	4671	5652	4671	5652
Shot weight	g(PS)	845	1150	2103	2374	2103	2374	2103	2374	2103	2374	2103	2374	4297	5199	4297	5199
	g(PP)	670	913	1669	1884	1669	1884	1669	1884	1669	1884	1669	1884	3410	4126	3410	4126
	oz(PS)	29.9	40.6	74.3	83.9	74.3	83.9	74.3	83.9	74.3	83.9	74.3	83.9	151.8	183.7	151.8	183.7
	oz(PP)	23.7	32.2	59.0	66.6	59.0	66.6	59.0	66.6	59.0	66.6	59.0	66.6	120.5	145.8	120.5	145.8
Injection rate into Air	cm <sup>3</sup> /s	806	1096	1094	1235	1758	1985	1094	1235	1094	1235	1758	1985	1366	1653	2512	3040
	g/S(PS)	733	998	995	1124	1600	1806	995	1124	995	1124	1600	1806	1243	1504	2286	2766
	g/S(PP)	535	728	727	820	1168	1319	727	820	727	820	1168	1319	907	1098	1669	2019
Injection pressure(Max. 400℃)	bar	2263	1663	2100	1860	2100	1860	2100	1860	2100	1860	2100	1860	2153	1779	2153	1779
Injection stroke	mm	325		455		455		455		455		455		595		595	
Max. injection speed (Under 100 bar injection pressure)	mm/s	285		218		350(ACC)		218		218		350(ACC)		174		320(ACC)	
Screw speed	r/min	219		190		190		190		190		190		139		139	
Theoretical plasticizing speed	g/S(PS)	57	84	109	128	109	128	109	128	109	128	109	128	126	160	126	160
Theoretical plasticizing speed	g/S(PP)	46	67	87	102	87	102	87	102	87	102	87	102	100	127	100	127
Sys. Pressure	MPa	17.5		17.5		17.5		17.5		17.5		17.5		17.5		17.5	
Pump Motor(Min~Max)	kW	50.7+50.7		92+47		92+47		92+47		92+47		92+47		117+65		117+65	
Number of Motors	PC	2		2		2		2		2		2		3		3	
Pre-plastic motor power	KW	65.4(optional)		92(optional)		92(optional)		92(optional)		92(optional)		92(optional)		117.5(optional)		117.5(optional)	
Pump motor(Min~Max)	KW	101(166.8optional)		231(optional)		231(optional)		231(optional)		231(optional)		231(optional)		299.5(optional)		299.5(optional)	
Heater power	kW	26.2		38.3		38.3		38.3		38.3		38.3		58.4		58.4	
Number of Temp. control zones		4+2		5+2		5+2		5+2		5+2		5+2		5+2		5+2	
Clamping force	kN	3500		5500		5500		6500		6500		6500		10000		10000	
Opening stroke	mm	760		980		980		950		1150		1150		1150		1150	
Space between tie bar	mmxmm	710×660		860×800		860×800		960×860		960×860		960×860		1160×1060		1160×1060	
Min. mould height	mm	270		400		400		400		400		400		500		500	
Max. mould height	mm	720		950		950		1000		1000		1000		1200		1200	
Max. mould weight(moving platen/fixed platen)	KG	2200	1100	4000	2100	4000	2100	4400	2200	4400	2200	4400	2200	9500	4900	9500	4900
Max. daylight	mm	1480		1930		1930		1950		2150		2150		2350		2350	
Ejector stroke	mm	190		220		220		240		240		240		300		300	
Ejector force forward	kN	68		116		116		154		154		154		198		198	
Ejector force back	kN	44		72		72		110		110		110		129		129	
Number of ejector bar	PC	13		17		17		21		21		21		21		21	
Dry cycle period	S-mm	2.2/497		2.8/602		2.8/602		3.0/672		3.0/672		3.0/672		5.5/812		5.5/812	
Energy consumption level	kW.h/kg	≤0.6		≤0.6		≤0.6		≤0.6		≤0.6		≤0.6		≤0.6		≤0.6	
Hopper capacity	kg	50		100		100		100		100		100		100		100	
Oil tank capacity	L	420		850		850		850		850		850		1000		1000	
Machine dimensions (L×W×H)	mxmxm	7.4x2x2.5		9.4x2.3x2.9		9.4x2.3x2.9		9.7x2.4x3		9.9x2.4x3		9.9x2.4x3		11.5x2.9x3		11.5x2.9x3	
Machine weight	Ton	12.5		21		21		25		25		25		31		31	

## HK thin-walled high-speed packaging machine



## APPLICATION

- Suitable for thin-wall forming of fast food boxes, milk tea cups, etc.



Fully hydraulic drive, the third-generation servo pump drive technology of the injection unit, the maximum shooting speed is 500mm/S; the response time is less than 35ms;

The special plasticizing system is customized for commonly used plastics in the packaging industry, and the plasticizing efficiency far exceeds the domestic level by more than 20%;

Optional synchronous pre-plasticizing function.

Main application scenarios, thin-walled packaging for lunch boxes, and thin-walled multi-cavity products for milk tea cups;

A special plasticizing system for biodegradable materials can be selected for wider adaptability.

---

**HK thin-walled high-speed packaging machine**

## HK thin-walled high-speed packaging machine Technical Data

	UNIT	BL300HK/C780		BL400HK/C950		BL460HK/C950		BL550HK/C1350	
International specification		3000/780		4000/950		4600/950		5500/1350	
Screw specifications		A	B	A	B	A	B	A	B
Screw diameter	mm	50	55	55	60	55	60	60	65
Screw L/D ratio		25	23	25	23	25	23	25	23
Theoretical injection capacity	cm <sup>3</sup>	432	522	522	622	522	622	820	962
Shot weight	g(PS)	397	481	481	572	481	572	754	885
	g(PP)	315	381	381	454	381	454	598	702
	oz(PS)	14.0	17.0	17.0	20.2	17.0	20.2	26.6	31.3
	oz(PP)	11.1	13.5	13.5	16.0	13.5	16.0	21.1	24.8
Injection rate into Air	cm <sup>3</sup> /s	786	951	1186	1412	1186	1412	1413	1659
	g/S(PS)	715	865	1080	1285	1080	1285	1286	1509
	g/S(PP)	522	631	788	938	788	938	939	1102
Injection pressure(Max. 400℃)	bar	1826	1509	1815	1525	1815	1525	1800	1534
Injection stroke	mm	220		220		220		290	
Max. injection speed	mm/s	400		500		500		500	
Screw speed	r/min	300		300		300		300	
Theoretical plasticizing speed	g/S(PS)	51	66	63	79	63	79	79	99
Theoretical plasticizing speed	g/S(PP)	41	52	50	62	50	62	62	79
Sys. Pressure	MPa	19.0		19.0		19.0		20.0	
Pump Motor(Min~Max)	kW	31+31		53+53		53+53		53+53	
Number of Motors	PC	2		2		2		2	
Pump motor(Min~Max)	KW	62		106		106		106	
Heater power	kW	29		32		32		38.3	
Number of Temp. control zones		4+2		4+2		4+2		5+2	
Clamping force	kN	3000		4000		4600		5500	
Opening stroke	mm	600		670		720		750	
Space between tie bar	mmxmm	610×560		660×610		730×660		860×710	
Min. mould height	mm	250		270		300		350	
Max. mould height	mm	650		670		750		860	
Max. mould weight(moving platen/fixed platen)	KG	1800	900	2200	1100	3300	1700	4400	2200
Max. daylight	mm	1250		1340		1470		1610	
Ejector stroke	mm	120		160		160		210	
Ejector force forward	kN	74		74		74		135	
Ejector force back	kN	36		36		110		110	
Number of ejector bar	PC	13				21		21	
Dry cycle period	S-mm	2.2/427		2.5/462		2.8/511		3.1/672	
Hopper capacity	kg	50		100		100		100	
Oil tank capacity	L	420		500		620		700	
Machine dimensions (L×W×H)	mxmxm	7.6x2x2.5		8.0x2x2.5		8.3x2.1x3		9.3x2.2x3	
Machine weight	Ton	15		18		22		26	

# EKH Center Clamping Commodity Fast Packing Machine



**Stronger Better Faster**

more than  
**20%**

01 **200mm/s**

Fully hydraulically driven, the injection unit adopts the third-generation servo pump + special high-pressure and high-speed control technology, and the maximum shooting speed is 200mm/S

02 **More than 20%**

The special plasticizing system is customized for commonly used plastics in the packaging industry, and the plasticizing efficiency far exceeds the domestic level by more than 20%;

03 **Optional**

Optional power distribution pre-plasticizing realizes synchronous pre-plasticizing function.

04 **Suitable for**

Suitable for household daily necessities, such as storage boxes, thick-walled products.



# EKH Center Clamping Commodity Fast Packing Machine Technical Data

	UNIT	BL120EKH-DN		BL160EKH-DN		BL200EKH-DN		BL250EKH-DN		BL300EKH-DN		BL400EKH-DN		BL450EKH-DN		BL530EKH-DN	
		C360		C490		C700		C980		C1600		C2400		C3100		C4000	
International specification		1200/C360		1600/C490		2000/C700		2500/C980		3000/C1600		4000/C2400		4500/C3100		5300/C4000	
Screw specifications		A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
Screw diameter	mm	36	40	40	45	45	50	50	55	60	65	68	75	75	85	80	90
Screw L/D ratio		25.0	23.0	25.0	23.0	25.0	23.0	25.0	23.0	24.9	23.0	25.0	23.0	24.9	22.0	25.0	22.2
Theoretical injection capacity	cm <sup>3</sup>	193	239	264	334	382	471	530	641	890	1045	1307	1590	1678	2155	2211	2798
Shot weight	g	141	174	193	244	279	344	387	468	650	763	954	1160	1225	1573	1614	2042
	oz	5.0	6.2	6.8	8.6	9.8	12.1	13.7	16.5	23.0	26.9	33.7	41.0	43.3	55.6	57.0	72.2
Injection rate into Air	cm <sup>3</sup> /s	154	190	196	247	248	306	313	379	496	582	602	602	710	912	794	1004
	g/S	116	143	147	186	186	229	235	284	372	437	452	452	533	684	595	753
Injection pressure	Mpa	189	153	186	147	185	150	186	154	184	157	182	149	185	144	184	145
Theoretical plasticizing speed	g/S(PP)	8	15	17	23	20	26	20	34	44	55	47	67	63	80	71	98
Injection stroke	mm	190		210		240		270		315		360		380		440	
Max. injection speed	mm/s	152		156		156		160		176		166		161		158	
Screw speed	r/min	270		289		255		270		316		253		228		203	
Sys. Pressure	MPa	17.5		17.5		17.5		17.5		17.5		17.5		17.5		17.5	
Pump motor	KW	13.4		16.4		20.5		26.7		50.7		40.9+16.4		40.9+26.7		40.9+40.9	
Heater power	kW	6.8		9.5		12.7		14.52		19.55		24.05		27.35		32	
Number of Temp. control zones		3+1		3+1		3+1		4+1		4+1		4+1		4+1		4+1	
Clamping force	kN	1200		1600		2000		2500		3000		4000		4500		5300	
Opening stroke	mm	360		420		480		530		590		660		750		850	
Space between tie bar	mmxmm	405×355		455×405		505×455		555×505		655×605		710×660		760×710		860×800	
Min. mould height	mm	160 (125)		180 (145)		200 (165)		220 (175)		250 (205)		270 (225)		330		330	
Max. mould height	mm	430 (430)		500 (500)		530 (530)		570 (570)		660 (660)		710 (710)		780		850	
Max. daylight	mm	790		920		1010		1100		1250		1370		1530		1700	
Ejector stroke	mm	120		145		150		150		190		190		210		210	
Ejector force forward	kN	34		49		49		67		67		123		123		123	
Ejector force back	kN	22		37		37		39		39		82		82		82	
Number of ejector bar	PC	5		5		5		9		13		13		13		13	
Hopper capacity	kg	25		25		25		50		50		50		50		100	
Oil tank capacity	L	150		165		230		280		350		420		420		600	
Machine dimensions (L×W×H)	mxmxm	4.4x1.3x2.1		4.9x1.4x2.1		5.2x1.4x2.2		5.7x1.5x2.4		6.3x1.7x2.5		7x1.8x2.5		7.7x1.9x2.6		8.3x2.1x2.9	
Machine weight	Ton	3.3		4		5.5		7		9		12		14.5		19.5	

# EKH Center Clamping Commodity Fast Packing Machine Technical Data

	UNIT	BL600EKH-DN		BL700EKH-DN		BL800EKH-DN		BL900EKH-DN		BL1000EKH-DN		BL1200EKH-DN		BL1400EKH-DN	
		C4700		C5800		C8600		C8600		CI0500		CI0500		CI3000	
International specification		6000/C4700		7000/C5800		8000/C8600		9000/C8600		10000/CI0500		12000/CI0500		14000/CI3000	
Screw specifications		A	C	A	B	A	B	A	B	A	B	A	B	A	B
Screw diameter	mm	85	95	95	105	105	115	110	120	115	125	115	125	120	130
Screw L/D ratio		25.0	22.3	25.0	22.6	25.0	22.8	25.0	23.0	25.0	23.0	25.0	23.0	25.0	23.0
Theoretical injection capacity	cm <sup>3</sup>	2581	3224	3542	4327	4717	5658	5177	6161	6177	7298	6177	7298	7235	8491
Shot weight	g	1884	2353	2586	3159	3443	4130	3779	4497	4509	5328	4509	5328	5281	6198
	oz	66.6	83.2	91.4	111.6	121.7	145.9	133.5	158.9	159.3	188.3	159.3	188.3	186.6	219.0
Injection rate into Air	cm <sup>3</sup> /s	898	1122	995	1215	1216	1459	1335	1589	1507	1780	1507	1780	1513	1775
	g/S	674	842	746	911	912	1094	1001	1191	1130	1335	1130	1335	1134	1331
Injection pressure	Mpa	183	146	165	135	183	152	167	140	169	143	169	143	181	154
Theoretical plasticizing speed	g/S(PP)	87	103	72	115	143	183	164	209	183	214	183	214	114	140
Injection stroke	mm	455		500		545		545		595		595		640	
Max. injection speed	mm/s	158		140		141		141		145		145		134	
Screw speed	r/min	190		163		199		199		165		165		141	
Sys. Pressure	MPa	17.5		17.5		17.5		17.5		17.5		17.5		17.5	
Pump motor	KW	50.7+40.9		50.7+40.9		50.7+40.9+26.7		50.7+40.9+26.7		50.7+50.7+40.9		50.7+50.7+40.9		50.7+50.7+50.7	
Heater power	kW	36.1		43		50.1		53		56.2		56.2		74.6	
Number of Temp. control zones		5+1		5+1		5+1		5+1		6+1		6+1		6+1	
Clamping force	kN	6000		7000		8000		9000		10000		12000		14000	
Opening stroke	mm	900		970		1050		1120		1150		1320		1450	
Space between tie bar	mmxmm	910×855		955×855		1055×955		1110×1010		1160×1060		1260×1120		1420×1220	
Min. mould height	mm	380		400		450		450		480		500		580	
Max. mould height	mm	910		960		1000		1100		1160		1200		1300	
Max. daylight	mm	1810		1930		2050		2220		2310		2520		2750	
Ejector stroke	mm	220		260		270		300		300		350		350	
Ejector force forward	kN	123		166		166		232		248		248		248	
Ejector force back	kN	82		117		117		132		165		165		165	
Number of ejector bar	PC	21		21		21		21		21		21		29	
Hopper capacity	kg	100		100		100		100		100		200		200	
Oil tank capacity	L	750		900		1070		1070		1350		1350		1650	
Machine dimensions (L×W×H)	mxmxxm	9.1x2.2x2.9		9.6x2.3x3		10.4x2.5x3.1		10.8x2.6x3.1		10.9x2.9x4.2		11.4x3x4.2		12.3x3.3x4.1	
Machine weight	Ton	22		25		30		38		45		52		67	