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BORCHE

BU-V Two-Platen Series

Large • Intelligent • Stable
Expert of Intelligent Two-Platen IMM

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Feb 2020

BORCHE BU

The Biggest Two-Platen IMM Manufacturer in Asia

Borche BU6800 is the biggest two platen injection molding machine in Asia in terms of combination of clamping force and injection volume as well as power saving effect.
The clamping force reaches to 68000 KN. Machine is with ultra-long daylight and super large mold thickness.
Borche BU two platen injection molding machine can be widely applied to aerospace field, automotive industry, transportation field, household appliance, and new rural construction.

Intelligent Two-platen IMM With PlasCloud App as Standard

PlasCloud makes injection molding more efficient

IoT device | Process Cloud Management | Digitalization Maintenance | Injection Molding Knowledge Bank | Remote Support

BORCHE BU

2007, Borche worked with European R&D team to launch two platen IMM, and gained many national patents;
2012, Borche new generation two platen IMM was put into production, its technological performance has been in a leading position;
2013, Borche BU6800 was launched, which set up the new benchmark in the industry;
2017, Borche become the expert of intelligent two platen IMM and the biggest two platen IMM manufacturer in Asia
2019 , Second prize of national science and technology progress award

Software name: Borche IMM BU series machine locking program
Registered No.: 2012SR135365

Software name: Borche IMM BU series micro-cell machine program
Registered No.: 2013SR020689

Software name: Borche IMM BU series oscilloscope program
Registered No.: 2013SR049306

Software name: Borche IMM BU series automatic adjusting of mold lock cylinder position program
Registered No.: 2013SR160472
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Patent

Patent: One type clamping device of two platen IMM
Patent No.:ZL200820125062.5

Patent: One type clamping cylinder of two platen IMM
Patent No.:ZL201220120091.9

Patent: One type guiding device of moving platen of two platen IMM
Patent No.:ZL201120188992.7

Patent: One type of anti-inclining and adjustable support for moving platen of two platen IMM
Patent No.:ZL201020510647.6

Patent: One type new compressing molding circuit
Patent No.:ZL201320198430.X

Patent: One type of clamping structure, injection molding equipment, die casting equipment
Patent No.:ZL201520776696.7

Patent: One type of sliding support for moving platen
Patent No.:ZL201620416972.3

Patent: Mold structure with rebound prohibited function
Patent No.:ZL201620816096.3

Patent: One type tie bar fixing device for two platen IMM
Patent No.: ZL201120408710.X

Patent: One type connecting device for mold moving cylinder of two platen IMM
Patent No.: ZL201120470815.8

Patent: One type bush structure for mold moving cylinder
Patent No.: ZL201220676060.1

Patent: One type support structure for ejector of two platen IMM
Patent No.: ZL201320085742.X
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Machine Features

Super Long Lasting Tie Bar

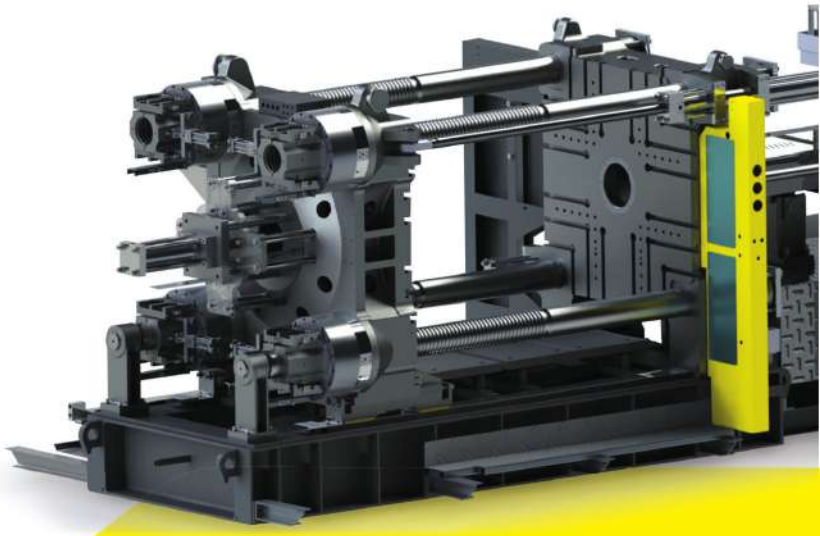
During high pressure locking, four tie bars are under equal force, no inbalanced load occurred, avoiding tie bar broken theoretically.

Moving Platen Clamping

Tie bars move across clamping cylinder, no contact with seals, less leakage lisk;

Module type clamping cylinder, can be assembled and disassembled together, easy for maintenance Pistons of four cylinders are controlled separately, which can adjust the locking Position precisely, and assure fast and precise locking.

Clamping cylinder assembled in the moving platen can balance the load of mold, avoiding forward tilt, improve stability of mold open and clamping movement



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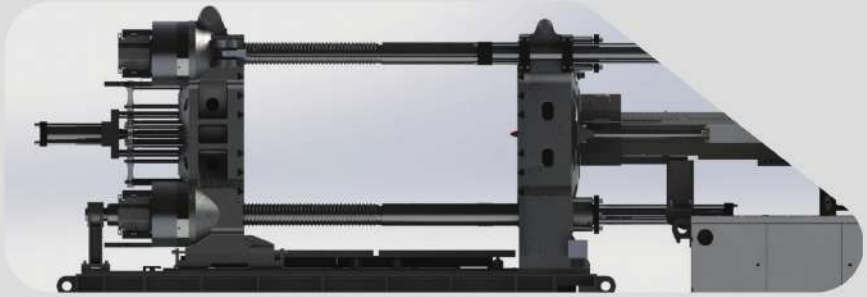
Tie Bar Guiding

Borche BU machine adopts the structure of fixing two bottom tie bars, assures platen moving guiding.
Machine frame works as the support during platen moving, bottom tie bars work as guiding and auxiliary support.
Above new guiding structure can guarantee mold movement stability and reliability, avoiding unbalanced force on tie bars and mold jiggling motion, and can load heavier mold.



Shorter Cycle Time

High performance and response controller
12" touch screen
Intel 1.1G CPU

Better application scalability meets complicated production requirements. With special hydraulic circuit, optimized movement calculation, dry cycle time of the machine is less.

Innovated Injection Structure

Both carriage cylinder and injection adopt linear guider, which guarantee stable and fast movement. Injection supporting made by one piece casting, is rigid and compact.
Double carriage cylinder assures injection unit better centering, and stable movement.

Intelligent Interconnection

The human-computer interface from IMM enables the Intelligent Interconnection of IMM, peripherals (cooling machine, mold temperature controller etc.), and robot. All equipments are under close loop control and all data is corresponding with each other, thus product quality is improved, and production cost is decreased.

Application

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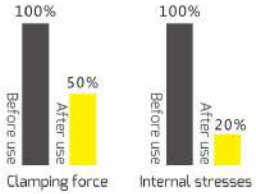
Municipal Engineering & Environmental Protection Industry

Machine Model: BU4000
Molding Technique: Compression Injection Molding
Product: Filter Plate
Size: 2000mmX2000mmX50mm
Weight: 165kg
Raw Material: PP+6%GF

The product is heavy weight and with big projected area, requires precise dimension and small deformation. Low MFI sticky compound needs 8000 ton clamping force to make the products under general molding condition. With compression molding it can be realized with 4000ton.
Note: Compression molding is an improved molding method which can increase flow length ratio, allow smaller clamping force, lessen internal stresses, and increase production efficiency.

Comparison btw use compression molding and not



Auto Parts

Machine Model: BU3300
Molding Technique:
- Charging during mold open
- Core out/Ejection forward during mold open
- Core in/Ejection backward during mold open

Product: Bumper
Weight: 4.5kg
Raw Material: Modified PP

Adopted servo charging, BU3300 realizes three parallel movements, lessen dry cycle time. Cycle can be reduced more if mold cooling time less. Servo valve used for injection increases shot repeatability, meets the high precision and efficiency requirement of auto part molding.

New Rural Construction Products

Machine Model: BU2500
Molding Technique: Enlarge Injection Weight
Product: Septic Tank
Weight :22.5kg
Material: PE

Super large injection unit of Borche BU2500, and equal force of clamping, makes the parts molding easily and efficiently.

Logistics

Machine Model: BU1800
Molding Technique : Deep Cavity products/High pressure mold open
Product: 240L trash
Weight : 11.5kg
Material: PP/PE

Borce BU machine has super large mold opening stroke, and strong opening force, which is perfect to make deep cavity products

Household Appliance

Machine Model: BU1200
Molding Technique: Big Mold Opening Stroke
Product: Washing Machine Barrel
Weight :3.2kg
Material: PP

Think wall and complicated shape product, needs good plasticizing, high shot speed and stable injection end position. Special designed BU 1200 can meet all the requirements of household appliance industry.

Clamping and Injection Unit
Flexible Conbination

BORCHE

Clamping Unit	Injection Unit												
Model	1367	2239	3266	4155	5700	7400	11500	13500	17650	29500	40700	51400	64000
BU500-V	Optional	Optional	Standard	Optional									
BU600-V		Optional	Optional	Standard	Optional								
BU700-V			Optional	Optional	Standard	Optional							
BU800-V			Optional	Optional	Standard	Optional							
BU900-V				Optional	Optional	Standard	Optional						
BU1000-V				Optional	Optional	Standard	Optional						
BU1200-V					Optional	Optional	Standard	Optional					
BU1350-V						Optional	Optional	Standard	Optional				
BU1500-V						Optional	Optional	Standard	Optional				
BU1650-V							Optional	Optional	Standard	Optional			
BU1800-V							Optional	Optional	Standard	Optional			
BU2200-V							Optional	Optional	Optional	Standard	Optional		
BU2500-V									Optional	Standard	Optional		
BU2800-V									Optional	Optional	Standard	Optional	Optional
BU3300-V									Optional	Optional	Optional	Optional	Standard

Standard Optional

Description

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MOLDEL	UNIT	BU500-V												BU600-V												BU700-V												BU800-V											
INTERNATIONAL CLASS NO.		1367			2239			3266			4155			2239			3266			4155			5700			3266			4155			5700			7400			3266			4155			5700			7400		
Injction Unit																																															
Screw Diameter	mm	50	60	70	60	70	80	**70**	**80**	**90**	80	85	95	60	70	80	70	80	90	**80**	**85**	**95**	90	100	105	70	80	90	80	85	95	**90**	**100**	**105**	100	105	115	70	80	90	80	85	95	**90**	**100**	**105**	100	105	115
Shot Volume	cm^3	589	848	1155	990	1947	1759	**1539**	**2011**	**2545**	2262	2554	3190	990	1347	1759	1539	2011	2545	**2262**	**2554**	**3190**	3181	3927	4330	1539	2011	2545	2262	2554	3190	**3181**	**3927**	**4330**	4123	4546	5453	1539	2011	2545	2262	2554	3190	**3181**	**3927**	**4330**	4123	4546	5453
Shot Weight(PS)	g	536	772	1051	901	1226	1601	**1401**	**1830**	**2316**	2058	2324	2903	901	1226	1601	1401	1830	2316	**2058**	**2324**	**2903**	2895	3574	3940	1401	1830	2316	2058	2324	2903	**2895**	**3574**	**3940**	3752	4137	4962	1401	1830	2316	2058	2324	2903	**2895**	**3574**	**3940**	3752	4137	4962
Shot Weight(PS)	OZ	19	27	37	32	43	56	**49**	**65**	**82**	73	82	102	32	43	56	49	65	82	**73**	**82**	**102**	102	126	139	49	65	82	73	82	102	**102**	**126**	**139**	132	146	175	49	65	82	73	82	102	**102**	**126**	**139**	132	146	175
Injection Pressure	Mpa	232	161	118	226	166	127	**212**	**162**	**128**	184	163	130	226	166	127	212	162	128	**184**	**163**	**130**	181	147	133	212	162	128	184	163	130	**181**	**147**	**133**	180	163	136	212	162	128	184	163	130	**181**	**147**	**133**	180	163	136
Screw L/D Ratio	L/d	25	21	18	24.5	21	18.5	**24**	**21**	**19**	22.3	21	19	24.5	21	18.5	24	21	19	**22.3**	**21**	**19**	25	22.5	21	24	21	19	22.3	21	19	**25**	**22.5**	**21**	24	23	21	24	21	19	22.3	21	19	**25**	**22.5**	**21**	24	23	21
Injection Stroke	mm	300			350			400			450			350			400			450			500			400			450			500			525			400			450			500			525		
Screw Rotary Speed Max	rpm	250			210			170			168			210			170			168			134			170			168			134			115			199			168			134			115		
Nozzle Contact Force	KN	40			70			80			80			70			80			80			200			80			80			200			200			80			80			200			200		
Nozzle Stroke	mm	500			620			620			620			620			620			620			675			620			620			675			770			620			620			675			770		
Clamping Unit																																															
Clamping Force	KN	5000												6000												7000												8000											
Mould Opening Stroke	mm	1335 / 770												1450 / 880												1500 / 950												1600 / 1000											
Platen Size,HxV	mm×mm	1210x1180												1310x1310												1500x1350												1550x1450											
Space Between Tie Bars,HxV	mm×mm	860x830												910x910												1060x910												1110x1010											
Daylight Max.	mm	1600												1750												1900												2000											
Mold Thickness(min-max)	mm	265-830												300-870												400-950												400-1000											
Ejector Storke	mm	250												280												300												300											
Ejector Force	KN	110												135												210												210											
Ejector Pin	unit	4+8+4+1												8+8+4+1												8+8+4+1												8+8+4+1											
Power Unit																																															
System pressure	Mpa	17.5			17.5			17.5			17.5			17.5			17.5			17.5			17.5			17.5			17.5			17.5			17.5			17.5			17.5			17.5			17.5		
Pump Motor	kW	52(30+22)			52(30+22)			59(37+22)			67(45+22)			52(30+22)			59(37+22)			67(45+22)			82(60+22)			59(37+22)			67(45+22)			82(60+22)			97(60+37)			67(45+22)			67(45+22)			82(60+22)			97(60+37)		
Heating Capacity	kw	16.2			18.5			25			32			18.5			25			32			41			25			32			41			49			25			32			41			49		
NO.of Heater Zones	unit	6			6			6			6			6			6			6			8			6			6			8			8			6			6			8			8		
General Unit																																															
Oil Tank Capacity	L	520			520			520			600			520			520			600			730			520			600			730			960			520			600			730			960		
Machine Dimensions(LxWxH)	m×m×m	7.2x2.35x2.1			7.2x2.35x2.1			7.2x2.35x2.1			7.3x2.35x2.1			7.5x2.35x2.2			7.5x2.35x2.2			7.6x2.35x2.2			8.26x2.35x2.2			7.85x2.87x2.4			7.94x2.87x2.4			8.6x2.87x2.4			8.97x2.87x2.4			7.85x2.87x2.4			7.94x2.87x2.4			8.6x2.87x2.4			8.97x2.87x2.4		
Machine Weight	KG	16000			16500			17000			17500			19000			20000			20000			22000			24000			24000			26000			28000			26000			26000			28000			30000		

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Description

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MOLDEL	UNIT	BU900-V												BU1000-V											
INTERNATIONAL CLASS NO.		4155			5700			7400			11500			4155			5700			7400			11500		
Injction Unit																									
Screw Diameter	mm	80	85	95	90	100	105	**100**	**105**	**115**	105	115	130	80	85	95	90	100	105	**100**	**105**	**115**	105	115	130
Shot Volume	cm^3	2262	2554	3190	3181	3927	4330	**4123**	**4546**	**5453**	5195	6232	7964	2262	2554	3190	3181	3927	4330	**4123**	**4546**	**5453**	5195	6232	7964
Shot Weight(PS)	g	2058	2324	2903	2895	3574	3940	**3752**	**4137**	**4962**	4728	5671	7247	2058	2324	2903	2895	3574	3940	**3752**	**4137**	**4962**	4728	5671	7247
Shot Weight(PS)	OZ	73	82	102	102	126	139	**132**	**146**	**175**	167	200	256	73	82	102	102	126	139	**132**	**146**	**175**	167	200	256
Injection Pressure	Mpa	184	163	130	181	147	133	**180**	**163**	**136**	221	184	144	184	163	130	181	147	133	**180**	**163**	**136**	221	184	144
Screw L/D Ratio	L/d	22.3	21	19	25	22.5	21	**24**	**23**	**21**	24	22	20	22.3	21	19	25	22.5	21	**24**	**23**	**21**	24	22	20
Injection Stroke	mm	450			500			525			600			450			500			525			600		
Screw Rotary Speed Max	rpm	168			134			115			110			168			134			115			110		
Nozzle Contact Force	KN	80			200			200			200			80			200			200			200		
Nozzle Stroke	mm	620			675			770			850			620			675			770			850		
Clamping Unit																									
Clamping Force	KN	9000												10000											
Mould Opening Stroke	mm	1700 / 1150												1800 / 1200											
Platen Size,HxV	mm×mm	1670×1540												1740×1515											
Space Between Tie Bars,HxV	mm×mm	1180×1050												1250×1025											
Daylight Max.	mm	2200												2300											
Mold Thickness(min-max)	mm	500-1050												500-1100											
Ejector Storke	mm	350												350											
Ejector Force	KN	210												210											
Ejector Pin	unit	8+8+1												8+8+1											
Power Unit																									
System pressure	Mpa	17.5			17.5			17.5			17.5			17.5			17.5			17.5			17.5		
Pump Motor	kW	75(45+30)			82(60+22)			97(60+37)			127(60+45+22)			82(60+22)			82(60+22)			97(60+37)			127(60+45+22)		
Heating Capacity	kw	32			41			49			59			32			41			49			59		
NO.of Heater Zones	unit	6			8			8			9			6			8			8			9		
General Unit																									
Oil Tank Capacity	L	600			730			960			1250			600			730			960			1250		
Machine Dimensions(LxWxH)	mxmxm	8.35x3.2x3.1			9.01x3.2x3.1			9.4x3.2x3.1			10.22x3.2x3.1			8.35x3.2x3.1			9.01x3.2x3.1			9.4x3.2x3.1			10.22x3.2x3.1		
Machine Weight	KG	33000			35000			37000			39000			34000			36000			38000			40000		

MOLDEL	UNIT	BU1000-V								BU1200-V								BU1350-V							
INTERNATIONAL CLASS NO.		5700			7400			11500		5700			7400			11500		7400			11500			13500	
Injction Unit																									
Screw Diameter	mm	90	100	105	**100**	**105**	**115**	105	115	130	90	100	105	100	105	115	**105**	**115**	**130**	115	130	140	100	105	115	105	115	130	**115**	**130**	**140**	130	140	150
Shot Volume	cm^3	3181	3927	4330	**4123**	**4546**	**5453**	5195	6232	7964	3181	3927	4330	4123	4546	5453	**5195**	**6232**	**7964**	6751	8628	10006	4123	4546	5453	5195	6232	7964	**6751**	**8628**	**10006**	9291	10776	12370
Shot Weight(PS)	g	2895	3574	3940	**3752**	**4137**	**4962**	4728	5671	7247	2895	3574	3940	3752	4137	4962	**4728**	**5671**	**7247**	6144	7851	9105	3752	4137	4962	4728	5671	7247	**6144**	**7851**	**9105**	8455	9806	11257
Shot Weight(PS)	OZ	102	126	139	**132**	**146**	**175**	167	200	256	102	126	139	132	146	175	**167**	**200**	**256**	217	277	321	132	146	175	167	200	256	**217**	**277**	**321**	298	346	397
Injection Pressure	Mpa	181	147	133	180	163	136	**221**	**184**	**144**	200	157	135	180	163	136	**221**	**184**	**144**	200	157	135	180	163	136	221	184	144	**200**	**157**	**135**	191	164	143
Screw L/D Ratio	L/d	25	22.5	21	24	23	21	**24**	**22**	**20**	25	22	20.5	24	23	21	**24**	**22**	**20**	25	22	20.5	24	23	21	24	22	20	**25**	**22**	**20.5**	24	22	21
Injection Stroke	mm	500			525			600		500			525			600		650				525			600			650			700			
Screw Rotary Speed Max	rpm	134			115			110		134			115			110		105				115			110			105			102			
Nozzle Contact Force	KN	200			200			200		200			200			200		200				200			200			200			200			
Nozzle Stroke	mm	675			675			850		675			675			850		900				675			850			900			965			
Clamping Unit																									
Clamping Force	KN	12000																13500																
Mould Opening Stroke	mm	2000 / 1400																2250 / 1550																
Platen Size,HxV	mm×mm	1920×1820																1990×1890																
Space Between Tie Bars,HxV	mm×mm	1300x1200																1420×1300																
Daylight Max.	mm	2600																2900																
Mold Thickness(min-max)	mm	600-1200																650-1350																
Ejector Storke	mm	380																380																
Ejector Force	KN	300																300																
Ejector Pin	unit	8+8+8+1																8+8+8+1																
Power Unit																									
System pressure	Mpa	17.5			17.5			17.5		17.5			17.5			17.5		17.5			17.5			17.5			17.5			17.5			
Pump Motor	kW	82(60+22)			97(60+37)			127(60+45+22)		135(60+45+30)								105(60+45)			127(60+45+22)			135(60+45+30)						165(60x2+45)			
Heating Capacity	kw	41			49			59		79								49			59			79						79				
NO.of Heater Zones	unit	8			8			9		9								8			9			9						9				
General Unit																									
Oil Tank Capacity	L	730			960			1250		1250								960			1250			1250						1550				
Machine Dimensions(LxWxH)	mxmxm	9.74x3.32x3.6			10.11x3.32x3.6			10.94x3.32x3.6		10.97x3.32x3.6								10.27x3.5x3.6			11.1x3.5x3.6			11.2x3.5x3.6						11.91x3.5x3.6			
Machine Weight	KG	44000			46000			48000		50000								52000			54000			56000						58000			

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Description

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MOLDEL	UNIT	BU1500-V												BU1650-V												BU1800-V												BU2200-V											
INTERNATIONAL CLASS NO.		7400			11500			13500			17650			11500			13500			17650			29500			11500			13500			17650			29500			11500			13500			17650			29500			40700		
Injction Unit																																																	
Screw Diameter	mm	100	105	115	105	115	130	**115**	**130**	**140**	130	140	150	105	115	130	115	130	140	**130**	**140**	**150**	150	160	170	105	115	130	115	130	140	**130**	**140**	**150**	150	160	170	105	115	130	115	130	140	130	140	150	**150**	**160**	**170**	165	185	205
Shot Volume	cm^3	4123	4546	5453	5195	6232	7964	**6751**	**8628**	**10006**	9291	10776	12370	5195	6232	7964	6751	8628	10006	**9291**	**10776**	**12370**	16611	18900	21336	5195	6232	7964	6751	8628	10006	**9291**	**10776**	**12370**	16611	18900	21336	5195	6232	7964	6751	8628	10006	9291	10776	12370	**16611**	**18900**	**21336**	19779	24864	30531
Shot Weight(PS)	g	3752	4137	4962	4728	5671	7247	**6144**	**7851**	**9105**	8455	9806	11257	4728	5671	7247	6144	7851	9105	**8455**	**9806**	**11257**	15116	17199	19416	4728	5671	7247	6144	7851	9105	**8455**	**9806**	**11257**	15116	17199	19416	4728	5671	7247	6144	7851	9105	8455	9806	11257	**15116**	**17199**	**19416**	17999	22626	27783
Shot Weight(PS)	OZ	132	146	175	167	200	256	**217**	**277**	**321**	298	346	397	167	200	256	217	277	321	**298**	**346**	**397**	533	607	685	167	200	256	217	277	321	**298**	**346**	**397**	533	607	685	167	200	256	217	277	321	298	346	397	**533**	**607**	**685**	635	798	980
Injection Pressure	Mpa	180	163	136	221	184	144	**200**	**157**	**135**	191	164	143	221	184	144	200	157	135	**191**	**164**	**143**	178	156	139	221	184	144	200	157	135	**191**	**164**	**143**	178	156	139	221	184	144	200	157	135	191	164	143	**178**	**156**	**139**	207	165	134
Screw L/D Ratio	L/d	24	23	21	24	22	20	**25**	**22**	**20.5**	24	22	21	24	22	20	25	22	20.5	**24**	**22**	**21**	23	21.6	20	24	22	20	25	22	20.5	**24**	**22**	**21**	23	21.6	20	24	22	20	25	22	20.5	24	22	21	**23**	**21.6**	**20**	26	23	21
Injection Stroke	mm	525			600			650			700			600			650			700			940			600			650			700			940			600			650			700			940			925		
Screw Rotary Speed Max	rpm	115			110			105			102			110			105			102			82			110			102			102			85			110			120			102			85			72		
Nozzle Contact Force	KN	200			200			200			200			200			200			200			290			200			200			200			290			200			200			200			290			290		
Nozzle Stroke	mm	675			850			900			965			850			900			965			1110			850			900			965			1110			900			900			965			1110			1110		
Clamping Unit																																																				
Clamping Force	KN	15000												16500												18000												22000											
Mould Opening Stroke	mm	2400 / 1700												2500 / 1700												2500 / 1700												2800 / 1900											
Platen Size,HxV	mm×mm	2120×2120												2215x2115												2400x2240												2620×2370											
Space Between Tie Bars,HxV	mm×mm	1480×1480												1580x1480												1650x1550												1850×1600											
Daylight Max.	mm	3100												3200												3200												3600											
Mold Thickness(min-max)	mm	700-1400												700-1500												700-1500												800-1700											
Ejector Storke	mm	380												380												380												450											
Ejector Force	KN	300												300												300												390											
Ejector Pin	unit	8+8+8+1												8+8+8+1												8+8+8+1												8+8+8+1											
Power Unit																																																	
System pressure	Mpa	17.5			17.5			17.5			17.5			17.5			17.5			17.5			17.5			17.5			17.5			17.5			17.5			17.5			17.5			17.5			17.5			17.5		
Pump Motor	kW	105(60+45)			127(60+45+22)			135(60+45+30)			165(60x2+45)			135(60+45+30)			135(60+45+30)			165(60x2+45)			165(60x2+45)			135(60+45+30)			135(60+45+30)			165(60x2+45)			176(94+60+22)			165(60x2+45)			165(60x2+45)			165(60x2+45)			176(94+60+22)			199(94+60+45)		
Heating Capacity	kw	49			79			79			79			59			79			79			97			59			79			79			97			59			79			79			97			176		
NO.of Heater Zones	unit	8			9			9			9			9			9			9			9			9			9			9			9			9			9			9			9			15		
General Unit																																																			
Oil Tank Capacity	L	960			1250			1250			1550			1250			1250			1550			1750			1250			1250			1550			1750			1250			1250			1550			1750			2880		
Machine Dimensions(LxWxH)	m×m×m	10.41x3.5x3.6			11.24x3.5x3.6			11.28x3.5x3.6			11.97x3.5x3.6			11.62x3.6x3.6			11.66x3.6x3.6			12.35x3.6x3.6			13.71x3.6x3.6			11.62x3.8x3.6			11.66x3.8x3.6			12.35x3.8x3.6			13.71x3.8x3.6			12.38x4.3x3.8			12.42x4.3x3.8			13.11x4.3x3.8			14.5x4.3x3.8			15.5x4.3x3.8		
Machine Weight	KG	57000			59000			61000			63000			66000			68000			70000			78000			77000			79000			81000			89000			96000			98000			100000			108000			116000		

The specification above is only for reference. Borche reserves the right of change in specification resulting from technical upgrading.

Description

BORCHE

MOLDEL	UNIT	BU2500-V									BU2800-V										BU3300-V									
INTERNATIONAL CLASS NO.		17650			29500			40700			17650			29500			40700			51400	64000	17650			29500			40700			51400	64000
Injction Unit																																
Screw Diameter	mm	130	140	150	**150**	**160**	**170**	165	185	205	130	140	150	150	160	170	**165**	**185**	**205**	205	215	130	140	150	150	160	170	165	185	205	205	**215**
Shot Volume	cm^3	9291	10776	12370	**16611**	**18900**	**21336**	19779	24864	30531	9291	10776	12370	16611	18900	21336	**19779**	**24864**	**30531**	32287	45744	9291	10776	12370	16611	18900	21336	19779	24864	30531	38287	**45744**
Shot Weight(PS)	g	8455	9806	11257	**15116**	**17199**	**19416**	17999	22626	27783	8455	9806	11257	15116	17199	19416	**17999**	**22626**	**27783**	34482	41627	8455	9806	11257	15116	17199	19416	17999	22626	27783	34842	**41627**
Shot Weight(PS)	OZ	298	346	397	**533**	**607**	**685**	635	798	980	298	346	397	533	607	685	**635**	**798**	**980**	1229	1468	298	346	397	533	607	685	635	798	980	1229	**1468**
Injection Pressure	Mpa	191	164	143	**178**	**156**	**139**	207	165	134	191	164	143	178	156	139	**207**	**165**	**134**	134	140	191	164	143	178	156	139	207	165	134	134	**140**
Screw L/D Ratio	L/d	24	22	21	**23**	**21.6**	**20**	26	23	21	24	22	21	23	21.6	20	**26**	**23**	**21**	21	21	24	22	21	23	21.6	20	26	23	21	21	**21**
Injection Stroke	mm	700			940			925			700			940			925			1160	1260	700			940			925			1160	1260
Screw Rotary Speed Max	rpm	110			85			72			114			85			72			72	60	114			85			72			72	60
Nozzle Contact Force	KN	200			290			290			200			290			290			290	290	200			290			290			290	290
Nozzle Stroke	mm	965			1110			1110			965			1100			1110			1110	1110	965			1100			1110			1110	1110
Clamping Unit																																
Clamping Force	KN	25000									28000											33000										
Mould Opening Stroke	mm	2800 / 1900									3100 / 2100											3160 / 2260										
Platen Size,HxV	mm×mm	2740x2540									2840x2640											3060×2800										
Space Between Tie Bars,HxV	mm×mm	1950x1750									2000x1800											2160×1900										
Daylight Max.	mm	3600									4000											4160										
Mold Thickness(min-max)	mm	800-1700									900-1900											1000-2000										
Ejector Storke	mm	450									550											550										
Ejector Force	KN	390									550											550										
Ejector Pin	unit	8+8+8+1									8+8+8+8+1											8+8+8+8+1										
Power Unit																																
System pressure	Mpa	17.5			17.5			17.5			17.5			17.5			17.5			17.5	17.5	17.5			17.5			17.5			17.5	17.5
Pump Motor	kW	176(94+60+22)			176(94+60+22)			199(94+60+45)			184(94+60+30)			184(94+60+30)			199(94+60+45)			214(60x2+94)	233(94x2+45)	184(94+60+30)			184(94+60+30)			199(94+60+45)			214(60x2+94)	233(94x2+45)
Heating Capacity	kw	79			97			176			79			97			176			176	186	79			97			176			176	186
NO.of Heater Zones	unit	9			9			15			9			9			15			15	15	9			9			15			15	15
General Unit																																
Oil Tank Capacity	L	1550			1750			2880			1550			1750			2880			2880	2880	1550			1750			2880			2880	2880
Machine Dimensions(LxWxH)	m×m×m	13.22x4.3x3.9			14.6x4.3x3.9			15.6x4.3x3.9			14.0x4.3x3.9			15.35x4.3x3.9			16.35x4.3x3.9			16.35x4.3x3.9	17.2x4.3x3.9	14.29x4.55x4.1			15.65x4.55x4.1			16.65x4.55x4.1			16.65x4.55x4.1	17.5x4.55x4.1
Machine Weight	KG	110000			118000			126000			126000			134000			142000			142000	146000	146000			154000			162000			162000	166000

The specification above is only for reference. Borche reserves the right of change in specification resulting from technical upgrading.

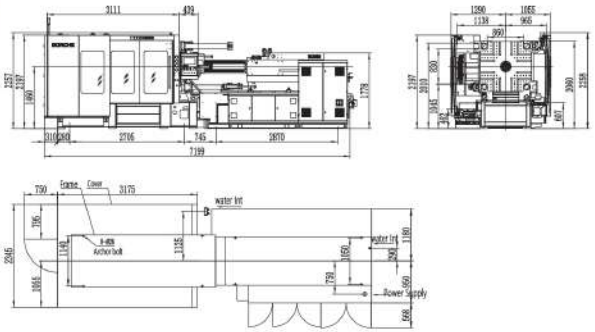
BU500-V

BORCHE

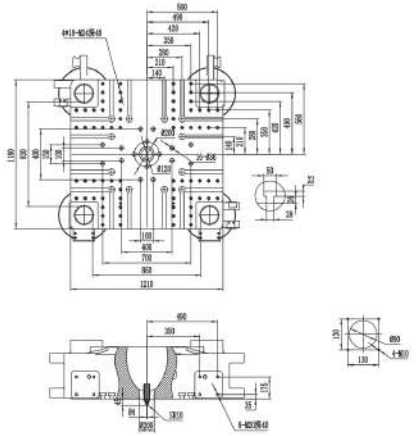
DESCRIPTION

MOLDEL / INTERNATIONAL CLASS NO.	UNIT	BU500-V			
		1367	2239	3266	4155
Injction Unit					
Screw Diameter	mm	50 60 70	60 70 80	70 80 90	80 85 95
Shot Volume	cm³	589 848 1155	990 1347 1759	1539 2011 2545	2262 2554 3190
Shot Weight(PS)	g	536 772 1051	901 1226 1601	1401 1830 2316	2058 2324 2903
Shot Weight(PS)	OZ	19 27 37	32 43 56	49 65 82	73 82 102
Injection Pressure	Mpa	232 161 118	226 166 127	212 162 128	184 163 130
Screw L/D Ratio	L/d	25 21 18	24.5 21 18.5	24 21 19	22.3 21 19
Injection Stroke	mm	300	350	400	450
Screw Rotary Speed Max	rpm	250	210	170	168
Nozzle Contact Force	KN	40	70	80	80
Nozzle Stroke	mm	500	620	620	620
Clamping Unit					
Clamping Force	KN	5000			
Mould Opening Stroke	mm	1335 / 770			
Platen Size:HxW	mm×mm	1210x1180			
Space Between Tie Bars:HxW	mm×mm	860x830			
Daylight Max.	mm	1600			
Mold Thickness (min-max)	mm	265-830			
Ejector Stoke	mm	250			
Ejector Force	KN	110			
Ejector Pin	unit	4+8+4+1			
Power Unit					
System pressure	Mpa	17.5	17.5	17.5	17.5
Pump Motor	kW	52(30+22)	52(30+22)	59(37+22)	67(45+22)
Heating Capacity	kw	16.2	18.5	25	32
NO.of Heater Zones	unit	6	6	6	6
General Unit					
Oil Tank Capacity	L	520	520	520	600
Machine Dimensions (LxWxH)	mxmxm	7.2x2.35x2.1	7.2x2.35x2.1	7.2x2.35x2.1	7.3x2.35x2.1
Machine Weight	KG	16000	16000	17000	17500

Appearance and Installation Dimensions



Mold Platen Drawing



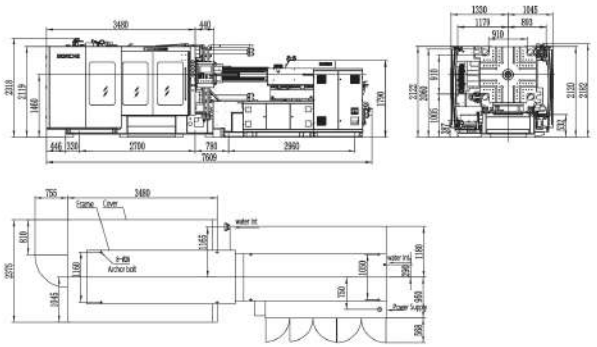
BU600-V

BORCHE

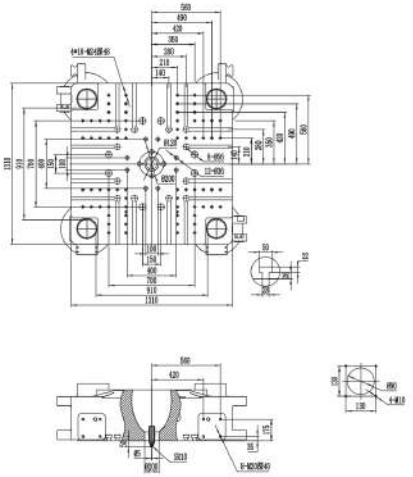
DESCRIPTION

MOLDEL / INTERNATIONAL CLASS NO.	UNIT	BU600-V			
		2239	3266	4155	5700
Injction Unit					
Screw Diameter	mm	60 70 80	70 80 90	80 85 95	90 100 105
Shot Volume	cm³	980 1347 1759	1539 2011 2545	2262 2554 3190	3181 3927 4830
Shot Weight(PS)	g	901 1226 1601	1401 1830 2316	2058 2324 2903	2895 3574 3940
Shot Weight(PS)	OZ	32 43 56	49 65 82	73 82 102	102 126 139
Injection Pressure	Mpa	226 166 127	212 162 128	184 163 130	181 147 133
Screw L/D Ratio	L/d	24.5 21 18.5	24 21 19	22.3 21 19	25 22.5 21
Injection Stroke	mm	350	400	450	500
Screw Rotary Speed Max	rpm	210	170	168	134
Nozzle Contact Force	KN	70	80	80	200
Nozzle Stroke	mm	620	620	620	675
Clamping Unit					
Clamping Force	KN	6000			
Mould Opening Stroke	mm	1450 / 880			
Platen Size:HxW	mm×mm	1310x1310			
Space Between Tie Bars:HxW	mm×mm	910x910			
Daylight Max.	mm	1750			
Mold Thickness (min-max)	mm	300-870			
Ejector Stoke	mm	280			
Ejector Force	KN	135			
Ejector Pin	unit	8+8+4+1			
Power Unit					
System pressure	Mpa	17.5	17.5	17.5	17.5
Pump Motor	kW	52(30+22)	59(37+22)	67(45+22)	82(60+22)
Heating Capacity	kw	18.5	25	32	41
NO.of Heater Zones	unit	6	6	6	8
General Unit					
Oil Tank Capacity	L	520	520	600	730
Machine Dimensions (LxWxH)	mxmxm	7.5x2.35x2.2	7.5x2.35x2.2	7.6x2.35x2.2	8.26x2.35x2.2
Machine Weight	KG	19000	20000	20000	22000

Appearance and Installation Dimensions



Mold Platen Drawing



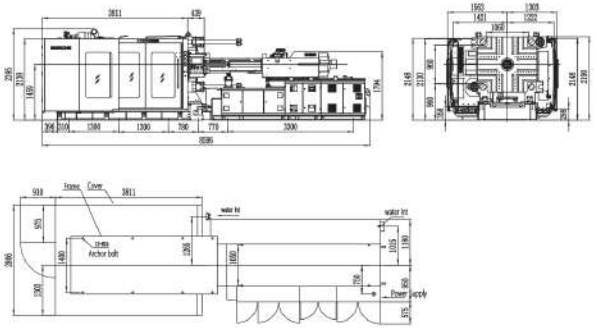
BU700-V

BORCHE

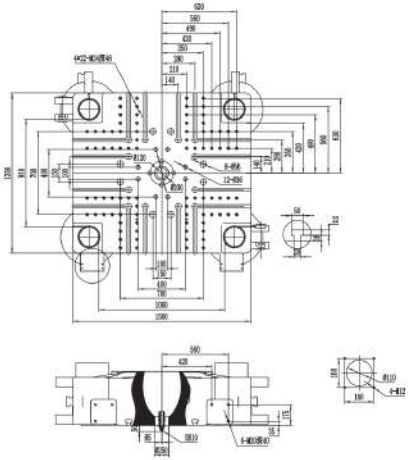
DESCRIPTION

MOLDEL / INTERNATIONAL CLASS NO.	UNIT	BU700-V			
		3266	4155	5700	7400
Injction Unit					
Screw Diameter	mm	70 80 90 80 85 95	**90 100 105**	100 105 115	
Shot Volume	cm³	1539 2011 2545	2262 2554 3190	**3181 3927 4330**	4123 4546 5453
Shot Weight(PS)	g	1401 1830 2316	2058 2324 2903	**2895 3574 3940**	3752 4137 4962
Shot Weight(PS)	OZ	49 65 82	73 82 102	**102 126 139**	132 146 175
Injection Pressure	Mpa	212 162 128	184 163 130	**181 147 133**	180 163 136
Screw L/D Ratio	L/d	24 21 19	22.3 21 19	**25 22.5 21**	24 23 21
Injection Stroke	mm	400	450	500	525
Screw Rotary Speed Max	rpm	170	168	134	115
Nozzle Contact Force	KN	80	80	200	200
Nozzle Stroke	mm	620	620	675	770
Clamping Unit					
Clamping Force	KN	7000			
Mould Opening Stroke	mm	1500 / 950			
Platen Size:HxV	mm×mm	1500x1350			
Space Between Tie Bars:HxV	mm×mm	1060x910			
Daylight Max.	mm	1900			
Mold Thickness (min-max)	mm	400-950			
Ejector Storke	mm	300			
Ejector Force	KN	210			
Ejector Pin	unit	8+8+4+1			
Power Unit					
System pressure	Mpa	17.5	17.5	17.5	17.5
Pump Motor	kW	59(37+22)	67(45+22)	82(60+22)	97(60+37)
Heating Capacity	kw	25	32	41	49
NO.of Heater Zones	unit	6	6	8	8
General Unit					
Oil Tank Capacity	L	520	600	730	960
Machine Dimensions (LxWxH)	mxmxm	7.85x2.87x2.4	7.94x2.87x2.4	8.6x2.87x2.4	8.97x2.87x2.4
Machine Weight	KG	24000	24800	26000	28000

Appearance and Installation Dimensions



Mold Platen Drawing



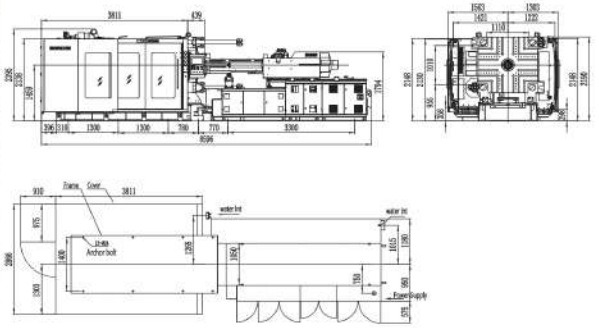
BU800-V

BORCHE

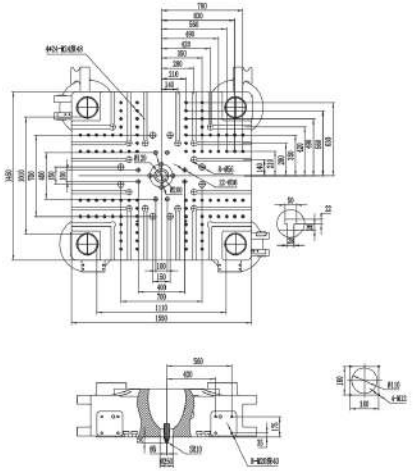
DESCRIPTION

MOLDEL / INTERNATIONAL CLASS NO.	UNIT	BU800-V			
		3266	4155	5700	7400
Injction Unit					
Screw Diameter	mm	70 80 90 80 85 95	**90 100 105**	100 105 115	
Shot Volume	cm³	1539 2011 2545	2262 2554 3190	**3181 3927 4330**	4123 4546 5453
Shot Weight(PS)	g	1401 1830 2316	2058 2324 2903	**2895 3574 3940**	3752 4137 4962
Shot Weight(PS)	OZ	49 65 82	73 82 102	**102 126 139**	132 146 175
Injection Pressure	Mpa	212 162 128	184 163 130	**181 147 133**	180 163 136
Screw L/D Ratio	L/d	24 21 19	22.3 21 19	**25 22.5 21**	24 23 21
Injection Stroke	mm	400	450	500	525
Screw Rotary Speed Max	rpm	199	168	134	115
Nozzle Contact Force	KN	80	80	200	200
Nozzle Stroke	mm	620	620	675	770
Clamping Unit					
Clamping Force	KN	8000			
Mould Opening Stroke	mm	1600 / 1000			
Platen Size:HxV	mm×mm	1550x1450			
Space Between Tie Bars:HxV	mm×mm	1110x1010			
Daylight Max.	mm	2000			
Mold Thickness (min-max)	mm	400-1000			
Ejector Storke	mm	300			
Ejector Force	KN	210			
Ejector Pin	unit	8+8+4+1			
Power Unit					
System pressure	Mpa	17.5	17.5	17.5	17.5
Pump Motor	kW	67(45+22)	67(45+22)	82(60+22)	97(60+37)
Heating Capacity	kw	25	32	41	49
NO.of Heater Zones	unit	6	6	8	8
General Unit					
Oil Tank Capacity	L	520	600	730	960
Machine Dimensions (LxWxH)	mxmxm	7.85x2.87x2.4	7.94x2.87x2.4	8.6x2.87x2.4	8.97x2.87x2.4
Machine Weight	KG	26000	26000	28000	30000

Appearance and Installation Dimensions



Mold Platen Drawing



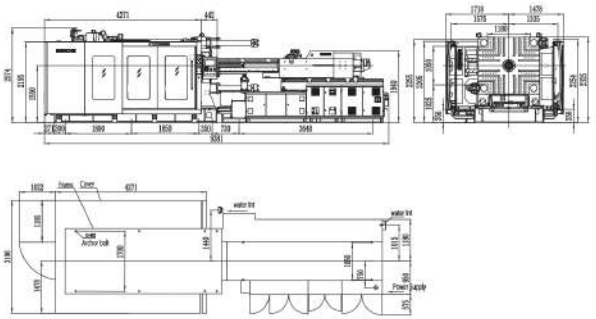
BU900-V

BORCHE

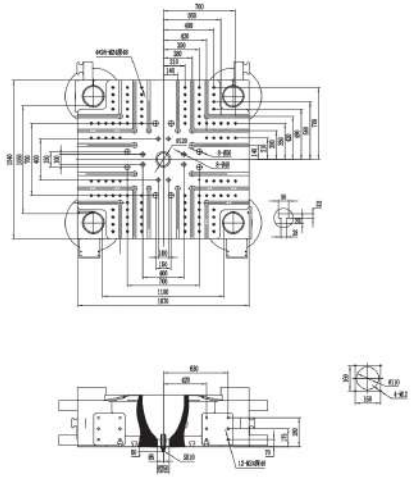
DESCRIPTION

MOLDEL / INTERNATIONAL CLASS NO.	UNIT	BU900-V			
		4155	5700	7400	11500
Injction Unit					
Screw Diameter	mm	80 85 95 90 100 105 **100 105 115** 105 115 130			
Shot Volume	cm³	2262 2554 3190 3181 3927 4830 **4123 4546 5453** 5195 6252 7964			
Shot Weight(PS)	g	2058 2324 2903 2895 3574 3940 **3752 4137 4962** 4728 5671 7247			
Shot Weight(PS)	OZ	73 82 102 102 126 139 **132 146 175** 167 200 256			
Injection Pressure	Mpa	184 163 130 181 147 133 **180 163 136** 221 184 144			
Screw L/D Ratio	L/d	22.3 21 19 25 22.5 21 **24 23 21** 24 22 20			
Injection Stroke	mm	450	500	525	600
Screw Rotary Speed Max	rpm	168	134	115	110
Nozzle Contact Force	KN	80	200	200	200
Nozzle Stroke	mm	620	675	770	850
Clamping Unit					
Clamping Force	KN	9000			
Mould Opening Stroke	mm	1700 / 1150			
Platen Size:HxV	mm×mm	1670×1540			
Space Between Tie Bars:HxV	mm×mm	1180×1050			
Daylight Max.	mm	2200			
Mold Thickness (min-max)	mm	500-1050			
Ejector Stoke	mm	350			
Ejector Force	KN	210			
Ejector Pin	unit	8+8+1			
Power Unit					
System pressure	Mpa	17.5	17.5	17.5	17.5
Pump Motor	kW	75(45+30)	82(60+22)	97(60+37)	127(60+45+22)
Heating Capacity	kw	32	41	49	59
NO.of Heater Zones	unit	6	8	8	9
General Unit					
Oil Tank Capacity	L	600	730	960	1250
Machine Dimensions (LxWxH)	m×m×m	8.35x3.2x3.1	9.01x3.2x3.1	9.4x3.2x3.1	10.22x3.2x3.1
Machine Weight	KG	33000	35000	37000	39000

Appearance and Installation Dimensions



Mold Platen Drawing



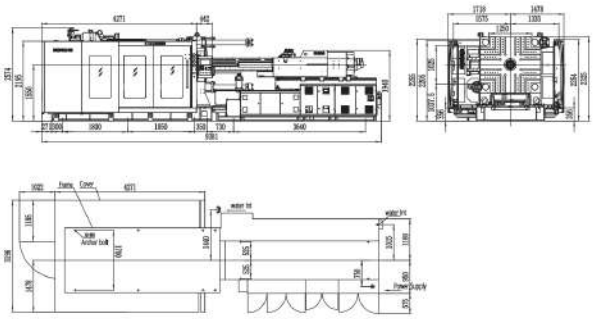
BU1000-V

BORCHE

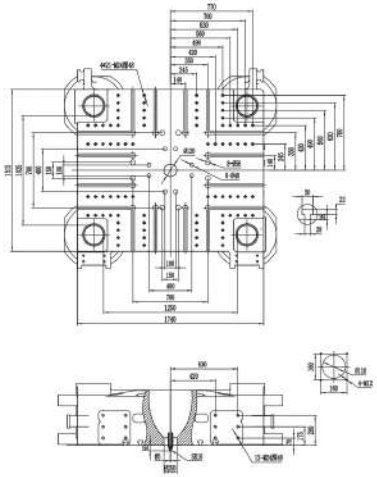
DESCRIPTION

MOLDEL / INTERNATIONAL CLASS NO.	UNIT	BU1000-V			
		4155	5700	7400	11500
Injction Unit					
Screw Diameter	mm	80 85 95 90 100 105 **100 105 115** 105 115 130			
Shot Volume	cm³	2262 2554 3190 3181 3927 4830 **4123 4546 5453** 5195 6252 7964			
Shot Weight(PS)	g	2058 2324 2903 2895 3574 3940 **3752 4137 4962** 4728 5671 7247			
Shot Weight(PS)	OZ	73 82 102 102 126 139 **132 146 175** 167 200 256			
Injection Pressure	Mpa	184 163 130 181 147 133 **180 163 136** 221 184 144			
Screw L/D Ratio	L/d	22.3 21 19 25 22.5 21 **24 23 21** 24 22 20			
Injection Stroke	mm	450	500	525	600
Screw Rotary Speed Max	rpm	168	134	115	110
Nozzle Contact Force	KN	80	200	200	200
Nozzle Stroke	mm	620	675	770	850
Clamping Unit					
Clamping Force	KN	10000			
Mould Opening Stroke	mm	1800 / 1200			
Platen Size:HxV	mm×mm	1740×1515			
Space Between Tie Bars:HxV	mm×mm	1250×1025			
Daylight Max.	mm	2300			
Mold Thickness (min-max)	mm	500-1100			
Ejector Stoke	mm	350			
Ejector Force	KN	210			
Ejector Pin	unit	8+8+1			
Power Unit					
System pressure	Mpa	17.5	17.5	17.5	17.5
Pump Motor	kW	82(60+22)	82(60+22)	97(60+37)	127(60+45+22)
Heating Capacity	kw	32	41	49	59
NO.of Heater Zones	unit	6	8	8	9
General Unit					
Oil Tank Capacity	L	600	730	960	1250
Machine Dimensions (LxWxH)	m×m×m	8.35x3.2x3.1	9.01x3.2x3.1	9.4x3.2x3.1	10.22x3.2x3.1
Machine Weight	KG	34000	36000	38000	40000

Appearance and Installation Dimensions



Mold Platen Drawing



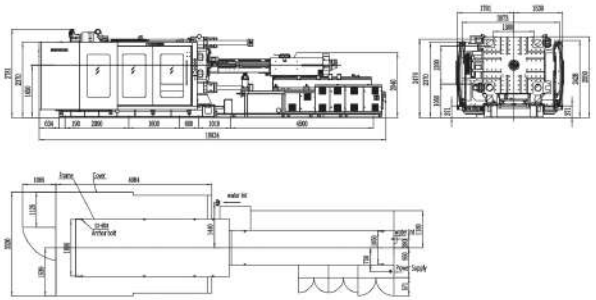
BU1200-V

BORCHE

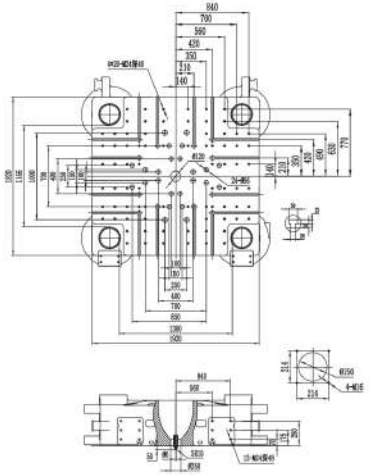
DESCRIPTION

MOLDEL / INTERNATIONAL CLASS NO.	UNIT	BU1200-V			
		5700	7400	11500	13500
Injction Unit					
Screw Diameter	mm	90 100 105 100 105 115 **105 115 130** 115 130 140			
Shot Volume	cm³	3181 3927 4330 4123 4546 5453 **5195 6232 7964** 6751 8628 10006			
Shot Weight(PS)	g	2895 3574 3940 3752 4137 4962 **4728 5671 7247** 6144 7851 9105			
Shot Weight(PS)	OZ	102 126 139 132 146 175 **167 200 256** 217 277 321			
Injection Pressure	Mpa	181 147 133 180 163 136 **221 184 144** 200 157 135			
Screw L/D Ratio	L/d	25 22.5 21 24 23 21 **24 22 20** 25 22 20.5			
Injection Stroke	mm	500	525	600	650
Screw Rotary Speed Max	rpm	134	115	110	105
Nozzle Contact Force	KN	200	200	200	200
Nozzle Stroke	mm	675	675	850	900
Clamping Unit					
Clamping Force	KN	12000			
Mould Opening Stroke	mm	2000 / 1400			
Platen Size:HxV	mm×mm	1920×1820			
Space Between Tie Bars:HxV	mm×mm	1300×1200			
Daylight Max.	mm	2600			
Mold Thickness (min-max)	mm	600-1200			
Ejector Stroke	mm	380			
Ejector Force	KN	300			
Ejector Pin	unit	8+8+8+1			
Power Unit					
System pressure	Mpa	17.5	17.5	17.5	17.5
Pump Motor	kW	82(60+22)	97(60+37)	121(60+45+22)	135(60+45+30)
Heating Capacity	kw	41	49	59	79
NO.of Heater Zones	unit	8	8	9	9
General Unit					
Oil Tank Capacity	L	730	960	1150	1250
Machine Dimensions (LxWxH)	mxmxm	9.74x3.32x3.6	10.11x3.32x3.6	10.94x3.32x3.6	10.97x3.32x3.6
Machine Weight	KG	44000	46000	48000	50000

Appearance and Installation Dimensions



Mold Platen Drawing



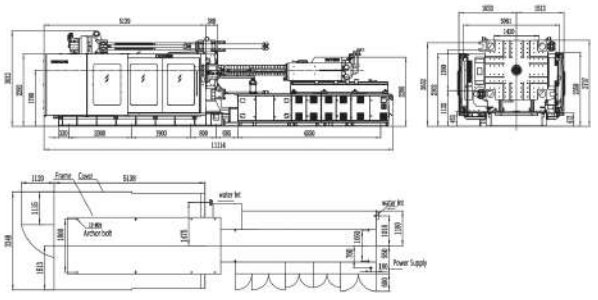
BU1350-V

BORCHE

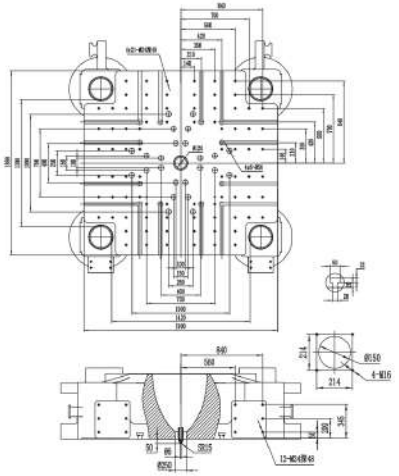
DESCRIPTION

MOLDEL / INTERNATIONAL CLASS NO.	UNIT	BU1350-V			
		7400	11500	13500	17650
Injction Unit					
Screw Diameter	mm	100 105 115 105 115 130 **115 130 140** 130 140 150			
Shot Volume	cm³	4123 4546 5453 5195 6232 7964 **6751 8628 10006** 9091 10776 12370			
Shot Weight(PS)	g	3752 4137 4962 4728 5671 7247 **6144 7851 9105** 8455 9805 11257			
Shot Weight(PS)	OZ	132 146 175 167 200 256 **217 277 321** 298 346 397			
Injection Pressure	Mpa	180 163 136 221 184 144 **200 157 135** 191 164 143			
Screw L/D Ratio	L/d	24 23 21 24 22 20 **25 22 20.5** 24 22 21			
Injection Stroke	mm	525	600	650	700
Screw Rotary Speed Max	rpm	115	110	105	102
Nozzle Contact Force	KN	200	200	200	200
Nozzle Stroke	mm	675	850	900	965
Clamping Unit					
Clamping Force	KN	13500			
Mould Opening Stroke	mm	2250 / 1550			
Platen Size:HxV	mm×mm	1990×1890			
Space Between Tie Bars:HxV	mm×mm	1420×1300			
Daylight Max.	mm	2900			
Mold Thickness (min-max)	mm	650-1350			
Ejector Stroke	mm	380			
Ejector Force	KN	300			
Ejector Pin	unit	8+8+8+1			
Power Unit					
System pressure	Mpa	17.5	17.5	17.5	17.5
Pump Motor	kW	105(60+45)	127(82+45+22)	155(82+45+30)	165(82x2+45)
Heating Capacity	kw	49	59	79	79
NO.of Heater Zones	unit	8	9	9	9
General Unit					
Oil Tank Capacity	L	960	1250	1250	1550
Machine Dimensions (LxWxH)	mxmxm	10.27x3.5x3.6	11.9x2.5x3.6	11.2x3.5x3.6	11.9x2.5x3.6
Machine Weight	KG	52000	54000	56000	58000

Appearance and Installation Dimensions



Mold Platen Drawing



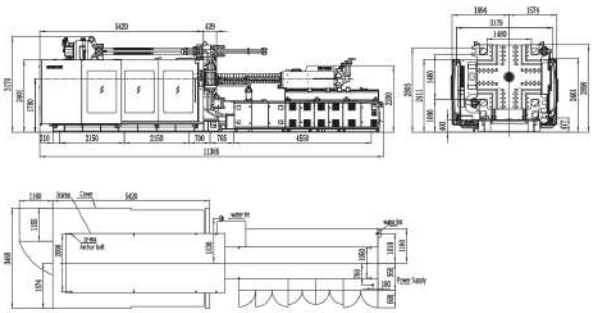
BU1500-V

BORCHE

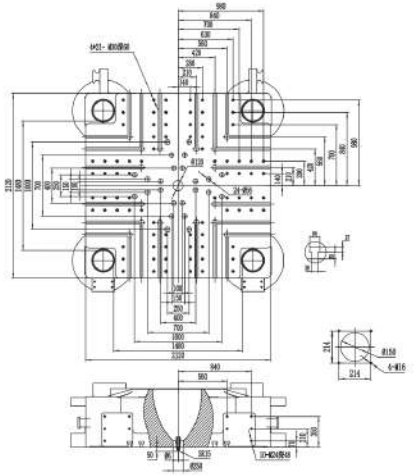
DESCRIPTION

MOLDEL / INTERNATIONAL CLASS NO.	UNIT	BU1500-V			
		7400	11500	13500	17650
Injction Unit					
Screw Diameter	mm	100 105 115 105 115 130	**115 130 140**	130 140 150	
Shot Volume	cm^3	4123 4546 5453 5195 6252 7964	**6751 8628 10006**	9291 10776 12570	
Shot Weight(PS)	g	3752 4137 4962 4728 5671 7247	**6144 7851 9105**	8455 9806 11257	
Shot Weight(PS)	OZ	132 146 175 167 200 256	**217 277 321**	298 346 397	
Injection Pressure	Mpa	180 163 136 221 184 144	**200 157 135**	191 164 143	
Screw L/D Ratio	L/d	24 23 21 24 22 20	**25 22 20.5**	24 22 21	
Injection Stroke	mm	525	600	650	700
Screw Rotary Speed Max	rpm	115	110	105	102
Nozzle Contact Force	KN	200	200	200	200
Nozzle Stroke	mm	675	850	900	965
Clamping Unit					
Clamping Force	KN	15000			
Mould Opening Stroke	mm	2400 / 1700			
Platen Size:HxV	mm×mm	2120×2120			
Space Between Tie Bars:HxV	mm×mm	1480×1480			
Daylight Max.	mm	3100			
Mold Thickness (min-max)	mm	700-1400			
Ejector Stroke	mm	380			
Ejector Force	KN	300			
Ejector Pin	unit	8+8+8+1			
Power Unit					
System pressure	Mpa	17.5	17.5	17.5	17.5
Pump Motor	kW	105(60+45)	127(80+45+22)	155(80+45+30)	185(80x2+45)
Heating Capacity	kw	49	79	79	79
NO.of Heater Zones	unit	8	9	9	9
General Unit					
Oil Tank Capacity	L	960	1250	1250	1550
Machine Dimensions (LxWxH)	mxmxm	10.41x3.5x3.6	11.24x3.5x3.6	11.8x3.5x3.6	11.97x3.5x3.6
Machine Weight	KG	57000	59000	61000	63000

Appearance and Installation Dimensions



Mold Platen Drawing



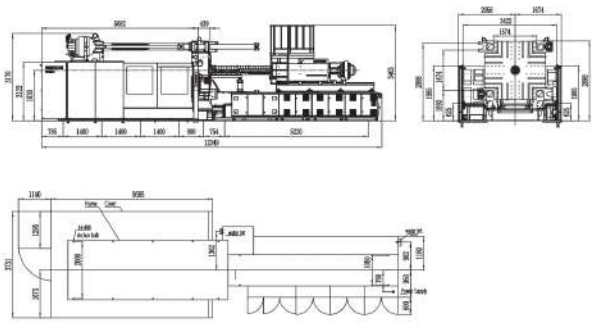
BU1650-V

BORCHE

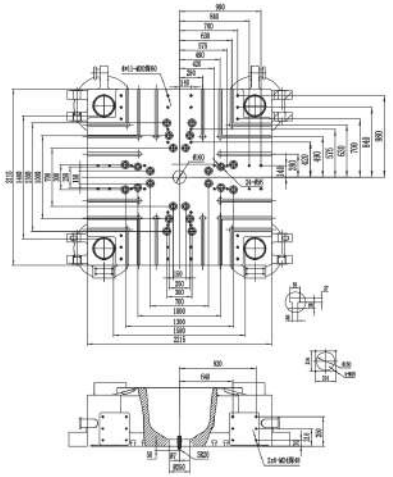
DESCRIPTION

MOLDEL / INTERNATIONAL CLASS NO.	UNIT	BU1650-V			
		11500	13500	17650	29500
Injction Unit					
Screw Diameter	mm	105 115 130 115 130 140	**130 140 150**	150 160 170	
Shot Volume	cm^3	5195 6252 7964 6751 8628 10006	**9291 10776 12370**	10611 13800 21936	
Shot Weight(PS)	g	4728 5671 7247 6144 7851 9105	**8455 9806 11257**	5716 17199 19416	
Shot Weight(PS)	OZ	167 200 256 217 277 321	**298 346 397**	533 607 685	
Injection Pressure	Mpa	221 184 144 200 157 135	**191 164 143**	178 156 139	
Screw L/D Ratio	L/d	24 22 20 25 22 20.5	**24 22 21**	23 21.6 20	
Injection Stroke	mm	600	650	700	940
Screw Rotary Speed Max	rpm	110	105	102	82
Nozzle Contact Force	KN	200	200	200	290
Nozzle Stroke	mm	850	900	965	1110
Clamping Unit					
Clamping Force	KN	16500			
Mould Opening Stroke	mm	2500 / 1700			
Platen Size:HxV	mm×mm	2215x2115			
Space Between Tie Bars:HxV	mm×mm	1580x1480			
Daylight Max.	mm	3200			
Mold Thickness (min-max)	mm	700-1500			
Ejector Stroke	mm	380			
Ejector Force	KN	300			
Ejector Pin	unit	8+8+8+1			
Power Unit					
System pressure	Mpa	17.5	17.5	17.5	17.5
Pump Motor	kW	135(80+45+30)	135(80+45+30)	165(80x2+45)	165(80x2+45)
Heating Capacity	kw	59	79	79	97
NO.of Heater Zones	unit	9	9	9	9
General Unit					
Oil Tank Capacity	L	1250	1250	1550	1750
Machine Dimensions (LxWxH)	mxmxm	11.62x3.6x3.6	11.66x3.6x3.6	12.15x3.6x3.6	13.71x3.6x3.6
Machine Weight	KG	66000	68000	70000	78000

Appearance and Installation Dimensions



Mold Platen Drawing



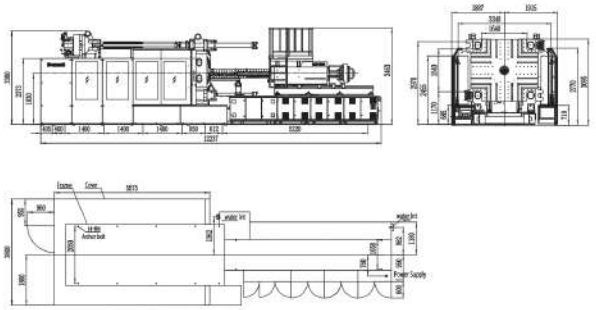
BU1800-V

BORCHE

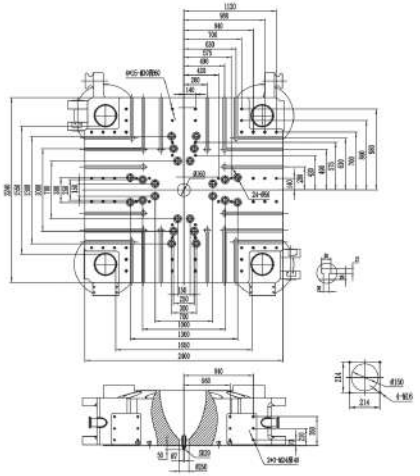
DESCRIPTION

MOLDEL / INTERNATIONAL CLASS NO.	UNIT	BU1800-V			
		11500	13500	17650	29500
Injction Unit					
Screw Diameter	mm	105 115 130 115 130 140	**130 140 150**	150 160 170	
Shot Volume	cm^3	5395 6232 7964 6751 8628 10006	**9291 10776 12370**	10611 18900 21336	
Shot Weight(PS)	g	4728 5671 7247 6144 7851 9105	**8455 9806 11257**	15116 17199 19416	
Shot Weight(PS)	OZ	167 200 256 217 277 321	**298 346 397**	533 607 685	
Injection Pressure	Mpa	221 184 144 200 157 135	**191 164 143**	178 156 139	
Screw L/D Ratio	L/d	24 22 20 25 22 20.5	**24 22 21**	23 21.6 20	
Injection Stroke	mm	600	650	700	940
Screw Rotary Speed Max	rpm	110	102	102	85
Nozzle Contact Force	KN	200	200	220	240
Nozzle Stroke	mm	850	900	985	1110
Clamping Unit					
Clamping Force	KN	18000			
Mould Opening Stroke	mm	2500 / 1700			
Platen Size:HxV	mm×mm	2400x2240			
Space Between Tie Bars:HxV	mm×mm	1650x1550			
Daylight Max.	mm	3200			
Mold Thickness (min-max)	mm	700-1500			
Ejector Stroke	mm	380			
Ejector Force	KN	300			
Ejector Pin	unit	8+8+8+1			
Power Unit					
System pressure	Mpa	17.5	17.5	17.5	17.5
Pump Motor	kW	135(60+45+30)	135(60+45+30)	165(60+45)	176(94+60+22)
Heating Capacity	kw	59	79	79	97
NO.of Heater Zones	unit	9	9	9	9
General Unit					
Oil Tank Capacity	L	1250	1250	1550	1750
Machine Dimensions (LxWxH)	mxmxm	11.62x3.8x3.6	11.66x3.8x3.6	12.15x3.8x3.6	13.71x3.8x3.6
Machine Weight	KG	77000	79000	81000	99000

Appearance and Installation Dimensions



Mold Platen Drawing



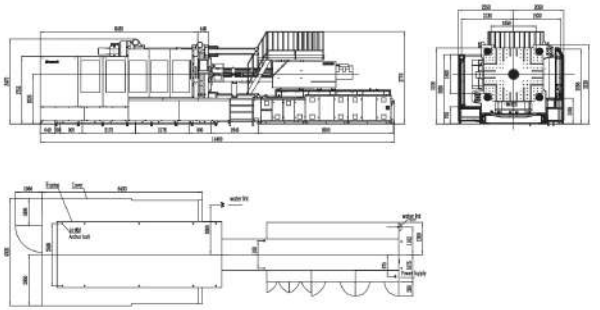
BU2200-V

BORCHE

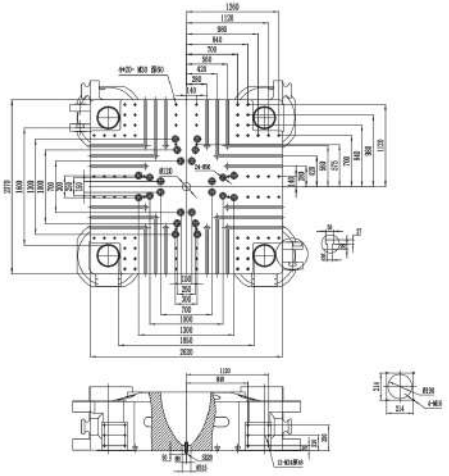
DESCRIPTION

MOLDEL / INTERNATIONAL CLASS NO.	UNIT	BU2200-V				
		11500	13500	17650	29500	40700
Injction Unit						
Screw Diameter	mm	105 115 130 115 130 140	130 140 150	**150 160 170**	160 165 205	
Shot Volume	cm^3	5395 6232 7964 6751 8628 10006	9291 10776 12370	**16611 18900 21336**	18779 21864 30539	
Shot Weight(PS)	g	4728 5671 7247 6144 7851 9105	8455 9806 11257	**15116 17199 19416**	17095 21636 27765	
Shot Weight(PS)	OZ	167 200 256 217 277 321	298 346 397	**533 607 685**	605 768 980	
Injection Pressure	Mpa	221 184 144 200 157 135	191 164 143	**178 156 126**	207 165 114	
Screw L/D Ratio	L/d	24 22 20 25 22 20.5	24 22 21	**23 21.6 20**	26 23 21	
Injection Stroke	mm	600	650	700	940	925
Screw Rotary Speed Max	rpm	110	120	102	85	72
Nozzle Contact Force	KN	200	200	220	240	260
Nozzle Stroke	mm	900	900	985	1110	1110
Clamping Unit						
Clamping Force	KN	22000				
Mould Opening Stroke	mm	2800 / 1900				
Platen Size:HxV	mm×mm	2620×2370				
Space Between Tie Bars:HxV	mm×mm	1850×1600				
Daylight Max.	mm	3600				
Mold Thickness (min-max)	mm	800-1700				
Ejector Stroke	mm	450				
Ejector Force	KN	390				
Ejector Pin	unit	8+8+8+1				
Power Unit						
System pressure	Mpa	17.5	17.5	17.5	17.5	17.5
Pump Motor	kW	165(60+45)	165(60+45)	165(60+45)	176(94+60+22)	198(94+60+45)
Heating Capacity	kw	59	79	79	97	176
NO.of Heater Zones	unit	9	9	9	9	15
General Unit						
Oil Tank Capacity	L	1250	1250	1550	1750	2350
Machine Dimensions (LxWxH)	mxmxm	12.39x4.3x3.8	12.40x4.3x3.8	13.19x4.3x3.8	14.54x3.8x3.8	15.54x3.8x3.8
Machine Weight	KG	96000	98000	101000	108000	116000

Appearance and Installation Dimensions



Mold Platen Drawing



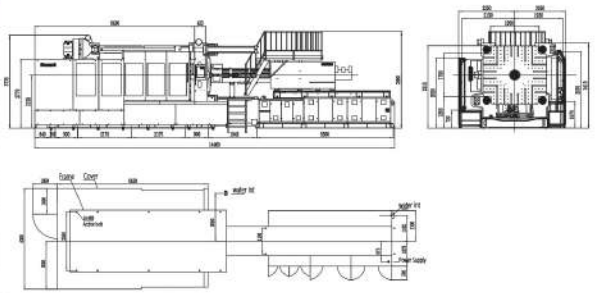
BU2500-V

BORCHE

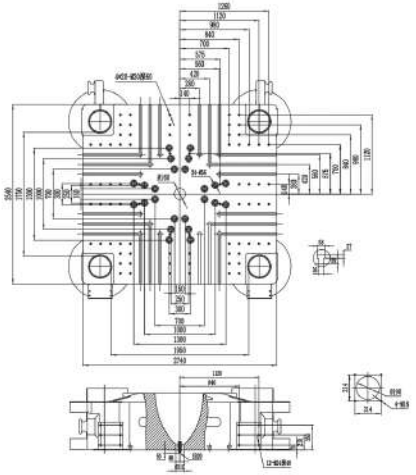
DESCRIPTION

MOLDEL INTERNATIONAL CLASS NO.	UNIT	BU2500-V								
		17650			29500			40700		
Injction Unit										
Screw Diameter	mm	130	140	150	**150**	**160**	**170**	165	185	205
Shot Volume	cm^3	9291	10776	12370	**16611**	**18900**	**21336**	19779	24864	30531
Shot Weight(PS)	g	8455	9806	11257	**15116**	**17199**	**19416**	17999	22626	27783
Shot Weight(PS)	OZ	298	346	397	**533**	**607**	**685**	635	798	980
Injection Pressure	Mpa	191	164	143	**178**	**156**	**139**	207	165	134
Screw L/D Ratio	L/d	24	22	21	**23**	**21.6**	**20**	26	23	21
Injection Stroke	mm	700			940			925		
Screw Rotary Speed Max	rpm	110			85			72		
Nozzle Contact Force	KN	200			290			290		
Nozzle Stroke	mm	965			1110			1110		
Clamping Unit										
Clamping Force	KN	25000								
Mould Opening Stroke	mm	2800 / 1900								
Platen Size:HxV	mm×mm	2740x2540								
Space Between Tie Bars:HxV	mm×mm	1950x1750								
Daylight Max.	mm	3600								
Mold Thickness (min-max)	mm	800-1700								
Ejector Storke	mm	450								
Ejector Force	KN	390								
Ejector Pin	unit	8+8+8+1								
Power Unit										
System pressure	Mpa	17.5			17.5			17.5		
Pump Motor	kW	176(94+60+22)			176(94+60+22)			199(94+60+45)		
Heating Capacity	kw	79			87			176		
NO.of Heater Zones	unit	9			9			15		
General Unit										
Oil Tank Capacity	L	1550			1720			2880		
Machine Dimensions (LxWxH)	mxmxm	13.22x4.3x3.9			14.9x4.3x3.9			15.6x4.3x3.9		
Machine Weight	KG	110000			118000			126000		

Appearance and Installation Dimensions



Mold Platen Drawing



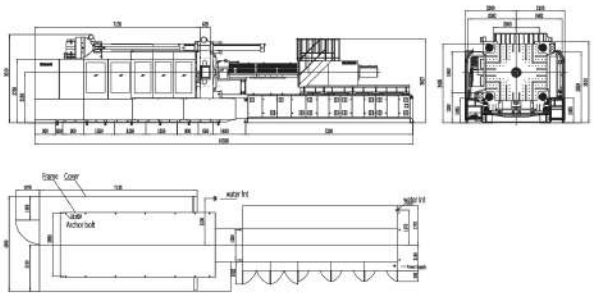
BU2800-V

BORCHE

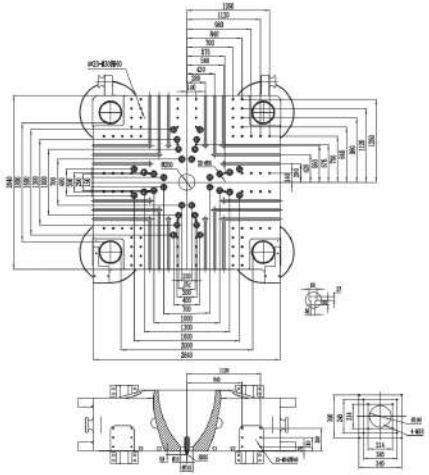
DESCRIPTION

MOLDEL INTERNATIONAL CLASS NO.	UNIT	BU2800-V								
		17650			29500			40700	51400	64000
Injction Unit										
Screw Diameter	mm	130	140	150	150	160	170	**165**	**185**	**205**	205	215
Shot Volume	cm^3	9291	10776	12370	16611	18900	21336	**19779**	**24864**	**30531**	32287	45744
Shot Weight(PS)	g	8455	9806	11257	15116	17199	19416	**17999**	**22626**	**27783**	34482	41627
Shot Weight(PS)	OZ	298	346	397	533	607	685	**635**	**798**	**980**	1239	1468
Injection Pressure	Mpa	191	164	143	178	156	139	**207**	**165**	**134**	134	140
Screw L/D Ratio	L/d	24	22	21	23	21.6	20	**26**	**23**	**21**	21	21
Injection Stroke	mm	700			940			925			1160	1260
Screw Rotary Speed Max	rpm	94			85			72			72	60
Nozzle Contact Force	KN	200			290			290			290	290
Nozzle Stroke	mm	965			1100			1110			1110	1110
Clamping Unit										
Clamping Force	KN	28000								
Mould Opening Stroke	mm	3100 / 2100								
Platen Size:HxV	mm×mm	2840x2640								
Space Between Tie Bars:HxV	mm×mm	2000x1800								
Daylight Max.	mm	4000								
Mold Thickness (min-max)	mm	900-1900								
Ejector Storke	mm	550								
Ejector Force	KN	550								
Ejector Pin	unit	8+8+8+8+1								
Power Unit										
System pressure	Mpa	17.5			17.5			17.5	17.5	17.5
Pump Motor	kW	176(94+60+22)			176(94+60+22)			199(94+60+45)	214(60x2+94)	233(94x2+45)
Heating Capacity	kw	79			87			176	176	186
NO.of Heater Zones	unit	9			9			15	15	15
General Unit										
Oil Tank Capacity	L	1550			1720			2880	2880	2880
Machine Dimensions (LxWxH)	mxmxm	14.9x4.3x3.9			15.15x4.3x3.9			16.15x4.3x3.9	16.35x4.3x3.9	17.2x4.3x3.9
Machine Weight	KG	126000			134000			142000	142000	146000

Appearance and Installation Dimensions



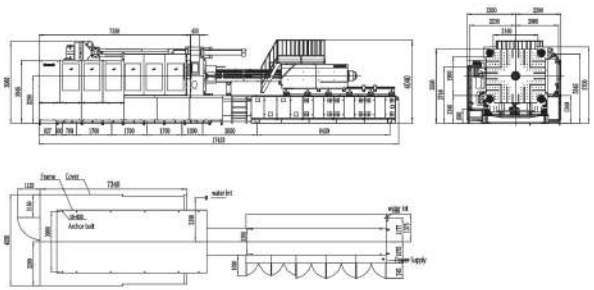
Mold Platen Drawing



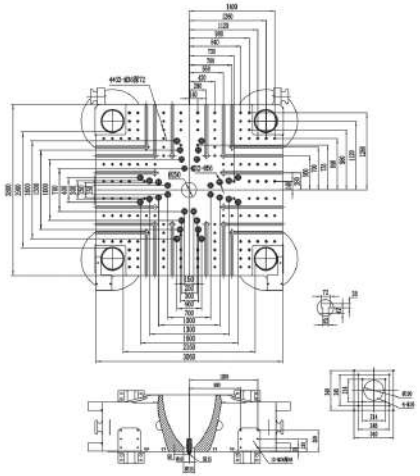
DESCRIPTION

MOLDEL / INTERNATIONAL CLASS NO.	UNIT	BU3300-V				
		17650	29500	40700	51400	64000
Injection Unit						
Screw Diameter	mm	130 140 150 158 165 170 185 195 205			215	215
Shot Volume	cm³	8278 10178 12315 14691 17306 20159 23251 26584 30157			36787	45744
Shot Weight(PS)	g	7453 9166 11087 13217 15566 18143 20926 23926 27143			34842	41627
Shot Weight(PS)	OZ	263 323 391 466 549 640 738 844 957			1229	1468
Injection Pressure	Mpa	191 164 145 178 156 139 207 165 134			134	140
Screw L/D Ratio	L/d	24 22 21 23 21 20 25 23 21			21	21
Injection Stroke	mm	700	940	935	1160	1260
Screw Rotary Speed Max	rpm	94	85	77	72	60
Nozzle Contact Force	KN	200	250	310	290	290
Nozzle Stroke	mm	985	1100	1110	1110	1110
Clamping Unit						
Clamping Force	KN	33000				
Mould Opening Stroke	mm	3160 / 2260				
Platen Size:H×V	mm×mm	3060×2800				
Space Between Tie Bars:H×V	mm×mm	2160×1900				
Daylight Max.	mm	4760				
Mold Thickness (min-max)	mm	1000-2000				
Ejector Stroke	mm	550				
Ejector Force	KN	550				
Ejector Pin	unit	8+8+8+8+1				
Power Unit						
System pressure	Mpa	175	175	175	175	175
Pump Motor	kW	184+47+30	184+47+30	184+47+45	214+55.2+94	233+94.2+45
Heating Capacity	kw	78	97	116	136	186
NO.of Heater Zones	unit	8	9	11	15	18
General Unit						
Oil Tank Capacity	L	1500	1700	2100	2500	2800
Machine Dimensions (LxWxH)	mxmxm	14.25x4.55x4.1	15.65x4.55x4.1	16.65x4.55x4.1	16.65x4.55x4.1	17.5x4.55x4.1
Machine Weight	KG	46000	54000	62000	163000	166000

Appearance and Installation Dimensions



Mold Platen Drawing



Standard Features

SAFETY UNIT		
1	China New Safety Standard	●
2	Full covered design	●
3	Double emergency button (≤600T),four emergency button(≥700T)	●

INJECTION UNIT		
1	Twin carriage structure	●
2	Balancing twin injection cylinder	●
3	Wear resistant screw and barrel	●
4	Chrome plated screw	●
5	3 sizes of screw/barrel available(ABC)	●
6	Nozzle centering calibration	●
7	Injection unit adopts linear guide rail	●
8	High torque hydraulic motor	●
9	Ceramic heater band	●
10	With screw and barrel support. (≥IU5700)	●
11	Bearing supported hopper slider (≤ IU13500)	●
12	Hopper platform (≥IU17650)	●
13	Electric lock on nozzle cover	●
14	Protection cover on heater band	●
15	Nonslip embossed aluminum sheet	●
16	High pressure/temperature tube for cooling ring on hopper throat	●
17	Leakage protection when suckback	●
18	Screw RPM sensor	●
19	Screw cold start proection	●
20	4 ways of carriage backward	●
21	10 stages of injection, pressure/sppeed ajustable	●
22	10 stages of pressure holding, pressure/sppeed ajustable	●
23	5 stages of plasticizing, pressure/sppeed ajustable	●
24	Temp. sensor on hopper throat	●
25	Temp. sensor on transmission shaft	●

CLAMPING UNIT		
1	Proportional valve for mold open and close	●
2	Anti-inclining and adjustable support for moving platen	●
3	Ejector backward position confirmation function	●
4	Pull back ejector pins	●
5	T-slot together with thread hole platen	●
6	Strong chrome plated tiebar	●
7	Synchronized half nut	●
8	Half nut independent lubrication	●
9	With robot mounting hole	●
10	Abrasion resistance strip	●
11	With hopper (≤600T)	●
12	Safety platform under mold area(≥700T)	●
13	Automatic safety door	●
14	Water manifold 9in/out, one on each platen(BU500-BU800)	●
15	Water manifold 10in/out, one on each platen(BU900-BU6800)	●
16	5 stages of closing/opening, pressure/sppeed ajustable	●
17	3stages/multi ways of ejector control(pressure, position, speed)	●
18	Auto mold thickness adjustment	●
19	Clamping force realtime monitor	●
20	Lubrication end pressure monitor	●
21	Magnetostricitve transducer for platen moving	●

HYDRAULIC UNIT		
1	Servo motor power	●
2	Low pressure mold protection	●
3	Parallel ejector/core	●
4	Spring mold function	●
5	4core pull(2 on fixed platen, 2 on moving platen). (≥1200T)	●
6	2 core pull(on moving platen). (≤1000T)	●
7	Efficient hydraulic oil cooler(≤IU4155)	●
8	Independent oil cooler(≥IU5700)	●
9	Bypass oil filter (≤IU4155)	●
10	Return filter(≥IU5700)	●
11	Pump with oil release function	●
12	High pressure 2-step release	●
13	Digital back pressure	●
14	One way valve for carriage	●
15	Boost open function	●
16	Low level alarm	●
17	Sucking filter with check valve(with sucking block alarm)	●
18	Exposion protective chain on hi-pressure pipes	●
19	High pressure mold opening function	●

CONTROL UNIT		
1	Keba controller	●
2	Internet connnection port	●
3	Multi language available	●
4	Self diagnosis system	●
5	With SPC function	●
6	Process parameter quick setting	●
7	Robot interface	●
8	Auto purge	●
9	Timer heating function	●
10	Electric heating proection by fuse or auto switch	●
11	PID programmable barrel heating	●
12	Precise position sensor	●
13	With 2G CF card, capable for 200sets of parameter	●
14	Parameter lock	●
15	Solid relay temperature setting	●
16	3-color alarm	●
17	380V/32A/5P 3ph, 2 sets	●
18	380V/16A/5P 3ph, 2 sets	●
19	220V/10A socket, 1 sets	●

INTERCONNECTED UNIT		
1	Temporary authorization of OPC-UA/DA	●
2	PlasCloud App, basic version	●
2.1	Machine Kanban: status, cycle and output,etc.	●
2.2	Remote view: process parameter, SPC, machine setup	●
2.3	Machine management: spot check, maintenance, repair	●
2.4	Report: daily report, monthly report	●

OTHER UNIT		
1	Borche standard VI	●
2	Backup socket	●
3	Adjustable level pad	●
4	With standard tool kit	●
5	With standard spare parts set	●

Industry 4.0 for IMM

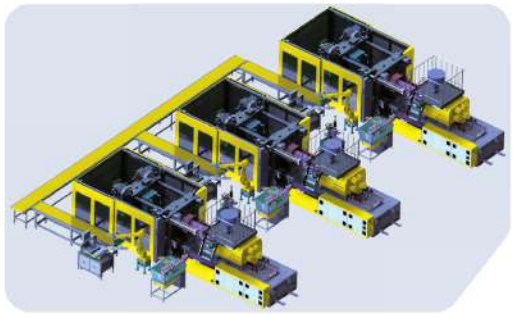
BORCHE

Optional Functions Of Intelligent Manufacturing:	
1	With Industry 4.0 on IMM, three mold change ways can be realized with mold change platform: one-stop automatic mold change, semi-automatic mold change and manual mold change. IMM can automatically identify mold and acquire parameter of mold change, technique and peripherals. The hole of IMM should be tailored to suit that of the mold change platform and hydraulic clamp. IMM will evaluate the safety of above holes. Safety lock is active when matching signal received. IMM plays a responsible role in mold change platform and hydraulic clamp.
2	IMM controller can display all machines'(peripherals included)operation condition and malfunction alarm. There are eight malfunction alarm interfaces for following peripherals: one robot, two mould temperature controllers, one water cooler, one dryer and all-in-one compact dryer. The communication and alarm function of other peripherals are connected to IMM through external connection cabinet so that intelligent interconnection of IMM and peripherals is built.
3	Plug and play, intelligently inter-connected water cooler operated and controlled in IMM with close-loop connection Intelligent interconnection of IMM and chiller can be operated and controlled by IMM controller. Data is close-loop interconnection.
4	Intelligent interconnection of IMM and mould temperature controller can be operated and controlled by IMM controller. All data is close-loop interconnection.
5	Intelligent interconnection of IMM and all-in-one compact dryer can be operated and controlled by IMM controller. All data is close-loop interconnection.
6	Compression injection molding technique
7	High speed proportional valve for mold open and close and non-contact maglev linear transducer realize real-time monitor
8	Robot connects with IMM in real-time, which reduce the interference of robot, IMM and mold. Robot can be fixed on the top or side of fixed platen according to parts pick requirements
9	Automation system of IMM and peripherals interact with MES management system 1) Order Monitor 2) CProduction Status Display 3) Alarm Monitor 4) Technique Parameter Management 5) Equipment Management 6) Production Report
10	iPHM, IMM Prognoties and Health Management (Equipment Online Doctor) 1) Safe and reliable bidirectional terminal is equipped with built-in firewall and remote VPN connection; various networking is available. Cloud platform connects IMM controller in real-time 2) Data of equipment operation, malfunction alarm and worker operation is collected in real time.IMM data visualization on Cloud Platform is realized. 3) Self diagnose module of failure and performance based one the dynamic data, can reduce the malfunction rate, and improve the equipment performance. 4) Operation and maintenance system connects the on-line management platform of after-sales service. It realizes remote on-line program upgrading, and improves the maintenance efficiency and quality. 5) IMM condition and performance report can be checked through mobile terminal; After-sales service request can be reported via WeChat.
11	Mold Visual Monitor 1) Low pressure mold protection for higher precision and efficiency 2) CAccurate checkup 3) Self-adaption to exterior light change 4) Self-adaption to inaccurate mold open position 5) Real-time record
12	Visual Detective System for surface quality checking 1) Fast detection, detection precision reaches to 0.001mm 2) Defectives check of contamination, color difference, flake, and short injection. 3) Wide application
13	Vision-induced System 1) Accurate positioning 2) Sensitive identification 3) Wide application

Intelligent Unmanned IMM Factory

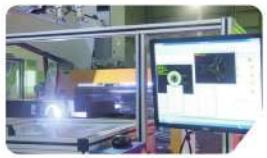
BORCHE

01 Factory Layout- Borche specializes in intelligent IMM factory design. Many intelligent factory cases carried out worldwide in IMM industry.

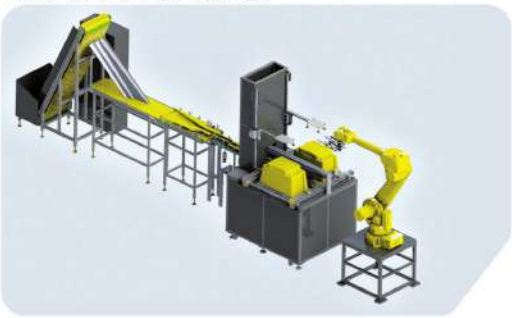


02 Flexible Automation -360° visual detection, robot operation, automatic assembling, parts insert, polishing and deburring...

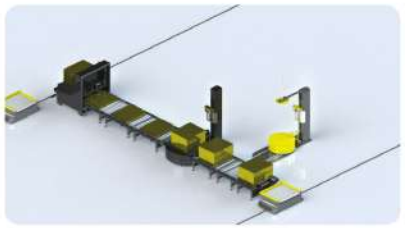
Visual Detective System



Robot Application (part pick-up, casting insert, assembling, stacking, deburring, degating)



03 Intelligent Logistics- AGV, rolling line, automatic packing, wrapper.



Benelux distributor: