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BORCHE

BU-V Two-Platen Series

15 Years' R&D on Two-Platen IMM, Full Range & Big Scale

Expert of Intelligent Two-Platen IMM

Mar 2021

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Website

Wechat

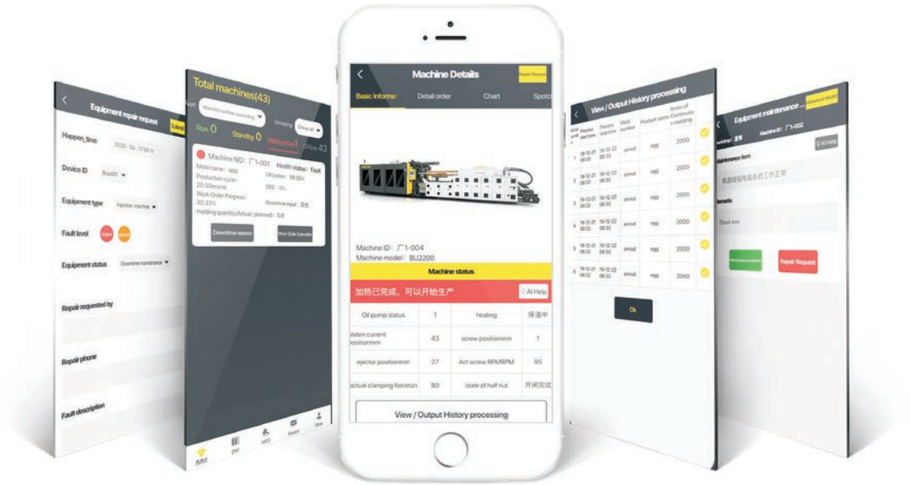
BORCHE BU

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

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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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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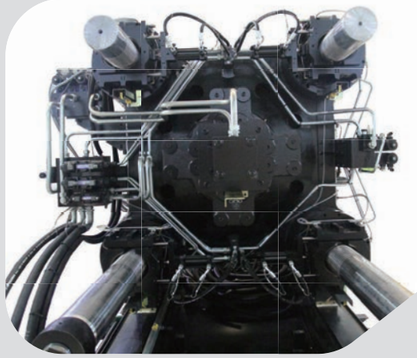
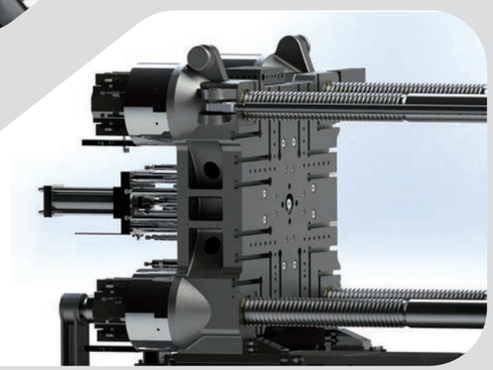
Machine Features

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.





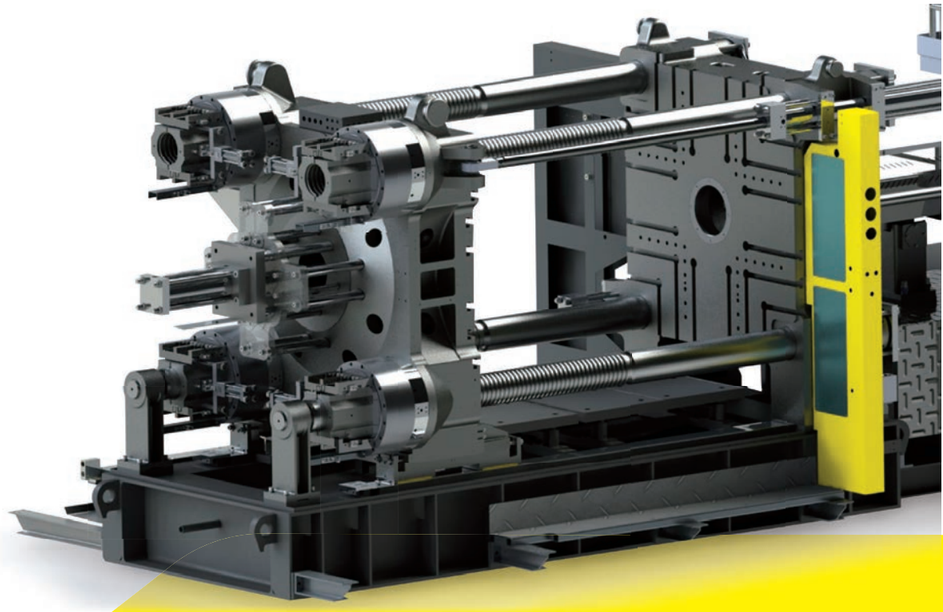
Moving Platen Clamping

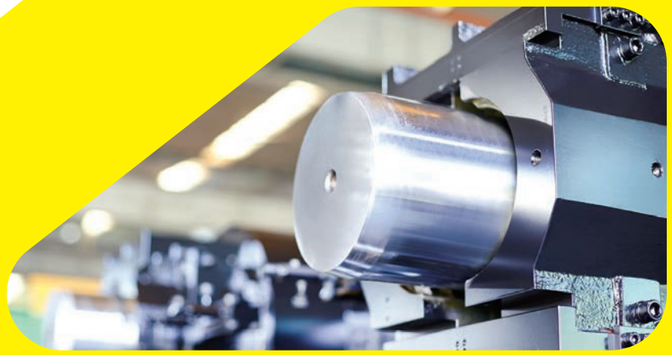
Tie bars move across clamping cylinder, no contact with seals, less leakage lisk;

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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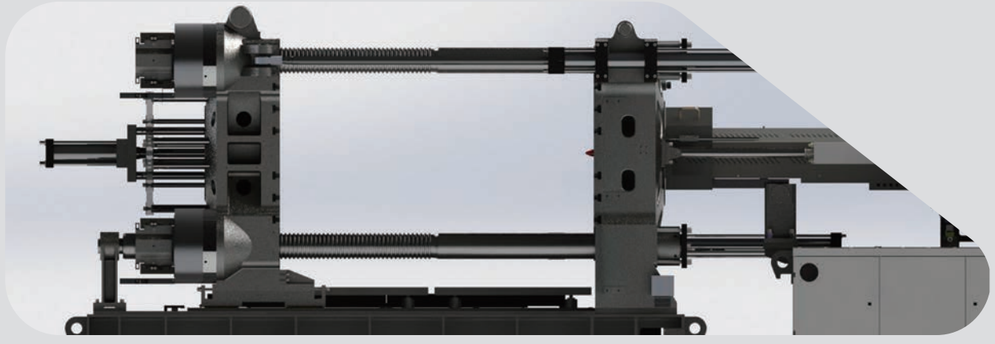
Tie Bar Guiding

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.



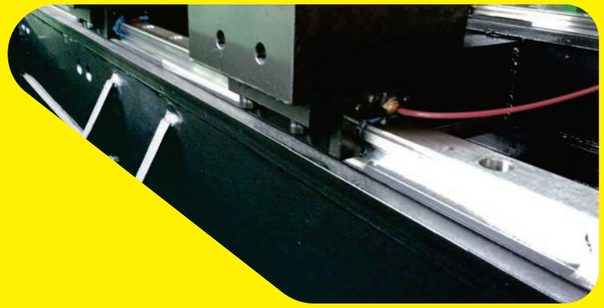
Shorter Cycle Time

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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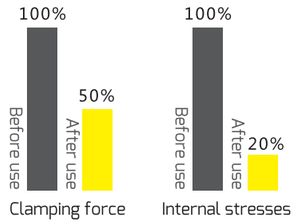
Municipal Engineering & Environmental Protection Industry

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													
BU600-V													
BU700-V													
BU800-V													
BU900-V													
BU1000-V													
BU1200-V													
BU1350-V													
BU1500-V													
BU1650-V													
BU1800-V													
BU2200-V													
BU2500-V													
BU2800-V													
BU3300-V													

Standard Optional

Description

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MOLDEL	UNIT	BU500-V			BU600-V			BU700-V			BU800-V			BU900-V			BU1000-V			BU1200-V			BU1350-V		
INTERNATIONAL CLASS NUMBER		3266			4155			5700			5700			7400			7400			11500			13500		
Injction Unit		A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
Screw Diameter	mm	70	80	90	80	85	95	90	100	105	90	100	105	100	105	115	100	105	115	105	115	130	115	130	140
Theoretical Shot Volume	cm^3	1539	2011	2545	2262	2554	3190	3181	3927	4330	3181	3927	4330	4123	4546	5453	4123	4546	5453	5195	6232	7964	6751	8628	10006
Theoretical Shot Weight(PS)	g	1401	1830	2316	2058	2324	2903	2895	3574	3940	2895	3574	3940	3752	4137	4962	3752	4137	4962	4728	5671	7247	6144	7851	9105
Theoretical Shot Weight(PS)	OZ	49	65	82	73	82	102	102	126	139	102	126	139	132	146	175	132	146	175	167	200	256	217	277	321
Theoretical Injection Pressure	Mpa	212	162	128	184	163	130	181	147	133	181	147	133	180	163	136	180	163	136	221	184	144	200	157	135
Screw L/D Ratio	L/d	24	21	19	22.3	21	19	25	22.5	21	25	22.5	21	24	23	21	24	23	21	24	22	20	25	22	20.5
Injection Stroke	mm	400			450			500			500			525			525			600			650		
Screw Rotary Speed Max	rpm	170			168			134			134			115			115			110			105		
Nozzle Contact Force	KN	80			80			200			200			200			200			200			200		
Nozzle Stroke	mm	620			620			675			675			770			770			850			900		
Injection Unit																									
Theoretical Clamping Force	KN	5000			6000			7000			8000			9000			10000			12000			13500		
Mould Opening Stroke	mm	1335 / 770			1450 / 880			1500 / 950			1600 / 1000			1700 / 1150			1800 / 1200			2000 / 1400			2250 / 1550		
Platen Size,HxV	mm×mm	1210x1180			1310x1310			1500x1350			1550x1450			1670×1540			1740×1515			1920x1820			1990×1890		
Space Between Tine Bars,HxV	mm×mm	860x830			910x910			1060x910			1110x1010			1180×1050			1250×1025			1300x1200			1420×1300		
Daylight Max.	mm	1600			1750			1900			2000			2200			2300			2600			2900		
Mold Thickness(min-max.)	mm	265-830			300-870			400-950			400-1000			500-1050			500-1100			600-1200			650-1350		
Injector Storke	mm	250			280			300			300			350			350			380			380		
Theoretical Ejector Force	KN	110			135			210			210			210			210			300			300		
Ejector Pin Hole	unit	4+8+4+1			8+8+4+1			8+8+4+1			8+8+4+1			8+8+1			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		
Pump Motor	KW	59(37+22)			67(45+22)			82(60+22)			82(60+22)			97(60+37)			97(60+37)			127(60+45+22)			135(60+45+30)		
Heating Capacity	KW	25			32			41			41			49			49			59			79		
NO.of Heater Zones	unit	6			6			8			8			8			8			9			9		
General Unit																									
Oil Tank Capacity	L	520			600			730			730			960			960			1250			1250		
Machine Dimensions(LxWxH)	m×m×m	7.2x2.35x2.1			7.6x2.35x2.2			8.6x2.87x2.4			8.6x2.87x2.4			9.4x3.2x3.1			9.4x3.2x3.1			10.94x3.32x3.6			11.2x3.5x3.6		
Theoretical Machine Weight	KG	17000			20000			26000			28000			37000			38000			48000			56000		

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

Description

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MOLDEL	UNIT	BU1500-V			BU1650-V			BU1800-V			BU2200-V			BU2500-V			BU2800-V			BU3300-V	BU4000	BU5000	BU6800
INTERNATIONAL CLASS NUMBER		13500			17650			17650			29500			29500			40700			64000	89700	120580	165400
Injction Unit		A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	A	A	A
Screw Diameter	mm	115	130	140	130	140	150	130	140	150	150	160	170	150	160	170	165	185	205	215	240	270	300
Theoretical Shot Volume	cm^3	6751	8628	10006	9291	10776	12370	9291	10776	12370	16611	18900	21336	16611	18900	21336	19779	24864	30531	45744	56773	77295	110270
Theoretical Shot Weight(PS)	g	6144	7851	9105	8455	9806	11257	8455	9806	11257	15116	17199	19416	15116	17199	19416	17999	22626	27783	41627	51663	70338	100346
Theoretical Shot Weight(PS)	OZ	217	277	321	298	346	397	298	346	397	533	607	685	533	607	685	635	798	980	1468	1822	2481	3540
Theoretical Injection Pressure	Mpa	200	157	135	191	164	143	191	164	143	178	156	139	178	156	139	207	165	134	140	158	158	150
Screw L/D Ratio	L/d	25	22	20.5	24	22	21	24	22	21	23	21.6	20	23	21.6	20	26	23	21	21	22	22	22
Injection Stroke	mm	650			700			700			940			940			925			1260	1255	1350	1560
Screw Rotary Speed Max	rpm	105			102			102			87			87			72			60	40	50	30
Nozzle Contact Force	KN	200			200			200			290			290			290			290	480	480	640
Nozzle Stroke	mm	900			965			965			1110			1110			1110			1110	1200	1200	1400
Clamping Unit																							
Theoretical Clamping Force	KN	15000			16500			18000			22000			25000			28000			33000	40000	50000	68000
Mould Opening Stroke	mm	2400 / 1700			2500 / 1700			2500 / 1700			2800 / 1900			2800 / 1900			3100 / 2100			3160 / 2260	3370 / 2260	3600 / 2500	3800 / 2700
Platen Size,HxV	mm×mm	2120×2120			2215x2115			2400x2240			2620×2370			2740x2540			2840x2640			3060×2800	3440×3040	3700×3280	3800×3680
Space Between Tine Bars,HxV	mm×mm	1480×1480			1580x1480			1650x1550			1850×1600			1950x1750			2000x1800			2160×1900	2420×2020	2560×2160	2600×2450
Daylight Max.	mm	3100			3200			3200			3600			3600			4000			4160	4370	4800	5000
Mold Thickness(min-	mm	700-1400			700-1500			700-1500			800-1700			800-1700			900-1900			1000-2000	1000-2110	1200-2300	1200-2300
Injector Storke	mm	380			380			380			450			450			550			550	550	800	800
Theoretical Ejector Force	KN	300			300			300			390			390			550			550	550	1200	1200
Ejector Pin Hole	unit	8+8+8+1			8+8+8+1			8+8+8+1			8+8+8+1			8+8+8+1			8+8+8+8+1			8+8+8+8+1	8+8+8+8+1	8+8+8+4+1	8+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
Pump Motor	KW	135(60+45+30)			165(60x2+45)			165(60x2+45)			180(60+60+60)			180(60+60+60)			199(94+60+45)			233(94x2+45)	315(45x7)	376(94x4)	450(45x10)
Heating Capacity	KW	79			79			79			97			97			176			186	269	288	328
NO.of Heater Zones	unit	9			9			9			9			9									
General Unit																							
Oil Tank Capacity	L	1250			1550			1550			1750			1750			2880			2880	4400	5000	6300
Machine Dimensions(LxWxH)	m×m×m	11.28x3.5x3.6			12.35x3.6x3.6			12.35x3.8x3.6			14.5x4.3x3.8			14.6x4.3x3.9			16.35x4.3x3.9			17.5x4.55x4.1	20.1x5.1x4.5	23.5x5.5x5.1	25x6.1x5.8
Theoretical Machine Weight	KG	61000			70000			81000			108000			118000			142000			166000	240000	345000	500000

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Description

BORCHE

MOLDEL	UNIT	BU500-V												BU600-V											
INTERNATIONAL CLASS NO.		1367			2239			3266			4155			2239			3266			4155			5700		
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
Shot Volume	cm^3	589	848	1155	990	1347	1759	**1539**	**2011**	**2545**	2262	2554	3190	990	1347	1759	1539	2011	2545	**2262**	**2554**	**3190**	3181	3927	4330
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
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
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
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
Injection Stroke	mm	300			350			400			450			350			400			450			500		
Screw Rotary Speed Max	rpm	250			210			170			168			210			170			168			134		
Nozzle Contact Force	KN	40			70			80			80			70			80			80			200		
Nozzle Stroke	mm	500			620			620			620			620			620			620			675		
Clamping Unit																									
Clamping Force	KN	5000												6000											
Mould Opening Stroke	mm	1335 / 770												1450 / 880											
Platen Size,HxV	mm×mm	1210x1180												1310x1310											
Space Between Tie Bars,HxV	mm×mm	860x830												910x910											
Daylight Max.	mm	1600												1750											
Mold Thickness(min-max.)	mm	265-830												300-870											
Ejector Storke	mm	250												280											
Ejector Force	KN	110												135											
Ejector Pin Hole	unit	4+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		
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)		
Heating Capacity	kw	16.2			18.5			25			32			18.5			25			32			41		
NO.of Heater Zones	unit	6			6			6			6			6			6			6			8		
General Unit																									
Oil Tank Capacity	L	520			520			520			600			520			520			600			730		
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		
Machine Weight	KG	16000			16500			17000			17500			19000			20000			20000			22000		

MOLDEL	UNIT	BU700-V				BU800-V			
INTERNATIONAL CLASS NO.		3266	4155	5700	7400	3266	4155	5700	7400
Injction Unit									
Screw Diameter	mm	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	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	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	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	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	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	400	450	500	525	400	450	500	525
Screw Rotary Speed Max	rpm	170	168	134	115	199	168	134	115
Nozzle Contact Force	KN	80	80	200	200	80	80	200	200
Nozzle Stroke	mm	620	620	675	770	620	620	675	770
Clamping Unit									
Clamping Force	KN	7000				8000			
Mould Opening Stroke	mm	1500 / 950				1600 / 1000			
Platen Size,HxV	mm×mm	1500x1350				1550x1450			
Space Between Tie Bars,HxV	mm×mm	1060x910				1110x1010			
Daylight Max.	mm	1900				2000			
Mold Thickness(min-max.)	mm	400-950				400-1000			
Ejector Storke	mm	300				300			
Ejector Force	KN	210				210			
Ejector Pin Hole	unit	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
Pump Motor	kW	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	25	32	41	49	25	32	41	49
NO.of Heater Zones	unit	6	6	8	8	6	6	8	8
General Unit									
Oil Tank Capacity	L	520	600	730	960	520	600	730	960
Machine Dimensions(LxWxH)	m×m×m	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	24000	24000	26000	28000	26000	26000	28000	30000

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

Description

BORCHE

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 Hole	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)	m×m×m	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	BU1200-V								BU1350-V							
INTERNATIONAL CLASS NO.		5700			7400			11500			13500			7400			11500		
Injction Unit																			
Screw Diameter	mm	90	100	105	100	105	115	**105**	**115**	**130**	115	130	140	100	105	115	105	115	130
Shot Volume	cm^3	3181	3927	4330	4123	4546	5453	**5195**	**6232**	**7964**	6751	8628	10006	4123	4546	5453	5195	6232	7964
Shot Weight(PS)	g	2895	3574	3940	3752	4137	4962	**4728**	**5671**	**7247**	6144	7851	9105	3752	4137	4962	4728	5671	7247
Shot Weight(PS)	OZ	102	126	139	132	146	175	**167**	**200**	**256**	217	277	321	132	146	175	167	200	256
Injection Pressure	Mpa	181	147	133	180	163	136	**221**	**184**	**144**	200	157	135	180	163	136	221	184	144
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
Injection Stroke	mm	500			525			600			650			525			600		
Screw Rotary Speed Max	rpm	134			115			110			105			115			110		
Nozzle Contact Force	KN	200			200			200			200			200			200		
Nozzle Stroke	mm	675			770			850			900			770			850		
Clamping Unit																			
Clamping Force	KN	12000								13500									
Mould Opening Stroke	mm	2000 / 1400								2250 / 1550									
Platen Size,HxV	mm×mm	1920x1820								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 Hole	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		
Pump Motor	kW	82(60+22)			97(60+37)			127(60+45+22)		135(60+45+30)				105(60+45)			127(60+45+22)		
Heating Capacity	kw	41			49			59		79				49			59		
NO.of Heater Zones	unit	8			8			9		9				8			9		
General Unit																			
Oil Tank Capacity	L	730			960			1250		1250				960			1250		
Machine Dimensions(LxWxH)	m×m×m	9.74x3.32x3.6			10.11x3.32x3.6			10.94x3.32x3.6		10.97x3.32x3.6				10.27x3.5x3.6			11.1x3.5x3.6		
Machine Weight	KG	44000			46000			48000		50000				52000			54000		

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Description

BORCHE

MOLDEL	UNIT	BU1500-V												BU1650-V											
INTERNATIONAL CLASS NO.		7400			11500			13500			17650			11500			13500			17650			29500		
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
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
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
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
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
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
Injection Stroke	mm	525			600			650			700			600			650			700			940		
Screw Rotary Speed Max	rpm	115			110			105			102			110			105			102			82		
Nozzle Contact Force	KN	200			200			200			200			200			200			200			290		
Nozzle Stroke	mm	770			850			900			965			850			900			965			1110		
Clamping Unit																									
Clamping Force	KN	15000												16500											
Mould Opening Stroke	mm	2400 / 1700												2500 / 1700											
Platen Size,HxV	mm×mm	2120×2120												2215x2115											
Space Between Tie Bars,HxV	mm×mm	1480×1480												1580x1480											
Daylight Max.	mm	3100												3200											
Mold Thickness(min-max.)	mm	700-1400												700-1500											
Ejector Storke	mm	380												380											
Ejector Force	KN	300												300											
Ejector Pin Hole	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		
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)		
Heating Capacity	kw	49			79			79			79			59			79			79			97		
NO.of Heater Zones	unit	8			9			9			9			9			9			9			9		
General Unit																									
Oil Tank Capacity	L	960			1250			1250			1550			1250			1250			1550			1750		
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		
Machine Weight	KG	57000			59000			61000			63000			66000			68000			70000			78000		

MOLDEL	UNIT	BU1800-V												BU2200-V											
INTERNATIONAL CLASS NO.		11500			13500			17650			29500			11500			13500			17650			29500		
Injction Unit																									
Screw Diameter	mm	105	115	130	115	130	140	**130**	**140**	**150**	150	160	170	105	115	130	115	130	140	130	140	150	**150**	**160**	**170**
Shot Volume	cm^3	5195	6232	7964	6751	8628	10006	**9291**	**10776**	**12370**	16611	18900	21336	5195	6232	7964	6751	8628	10006	9291	10776	12370	**16611**	**18900**	**21336**
Shot Weight(PS)	g	4728	5671	7247	6144	7851	9105	**8455**	**9806**	**11257**	15116	17199	19416	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	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	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	24	22	20	25	22	20.5	24	22	21	**23**	**21.6**	**20**
Injection Stroke	mm	600			650			700			940			600			650			700			940		
Screw Rotary Speed Max	rpm	110			102			102			85			110			120			102			85		
Nozzle Contact Force	KN	200			200			200			290			200			200			200			290		
Nozzle Stroke	mm	850			900			965			1110			900			900			965			1110		
Clamping Unit																									
Clamping Force	KN	18000												22000											
Mould Opening Stroke	mm	2500 / 1700												2800 / 1900											
Platen Size,HxV	mm×mm	2400x2240												2620×2370											
Space Between Tie Bars,HxV	mm×mm	1650x1550												1850×1600											
Daylight Max.	mm	3200												3600											
Mold Thickness(min-max.)	mm	700-1500												800-1700											
Ejector Storke	mm	380												450											
Ejector Force	KN	300												390											
Ejector Pin Hole	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		
Pump Motor	kW	135(60+45+30)			135(60+45+30)			165(60x2+45)			180(60+60+60)			165(60x2+45)			165(60x2+45)			165(60x2+45)			180(60+60+60)		
Heating Capacity	kw	59			79			79			97			59			79			79			97		
NO.of Heater Zones	unit	9			9			9			9			9			9			9			9		
General Unit																									
Oil Tank Capacity	L	1250			1250			1550			1750			1250			1250			1550			1750		
Machine Dimensions(LxWxH)	m×m×m	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		
Machine Weight	KG	77000			79000			81000			89000			96000			98000			100000			108000		

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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**	38287	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 / 2160										
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 Hole	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)			180(60+60+60)			199(94+60+45)			184(94+60+30)			180(60+60+60)			199(94+60+45)			214(60x2+94)	233(94x2+45)	184(94+60+30)			180(60+60+60)			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

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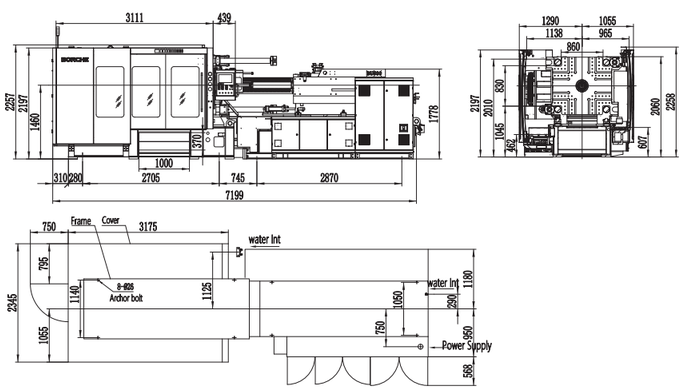
BU500-V

BORCHE

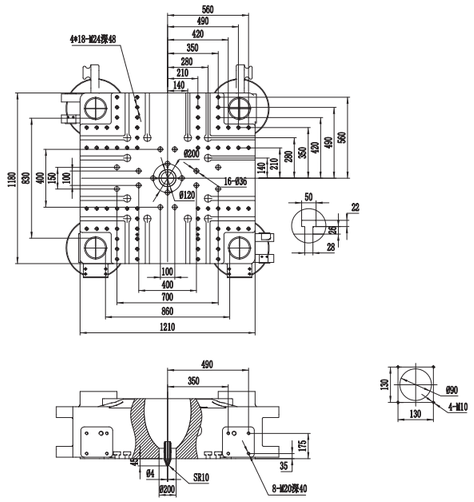
DESCRIPTION

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	cm^3	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,HxV	mm×mm	1210x1180											
Space Between Tie Bars,HxV	mm×mm	860x830											
Daylight Max.	mm	1600											
Mold Thickness (min-max.)	mm	265-830											
Ejector Storke	mm	250											
Ejector Force	KN	110											
Ejector Pin Hole	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)	m×m×m	7.2x2.35x2.1			7.2x2.35x2.1			7.2x2.35x2.1			7.3x2.35x2.1		
Machine Weight	KG	16000			16500			17000			17500		

Appearance and Installation Dimensions



Mold Platen Drawing



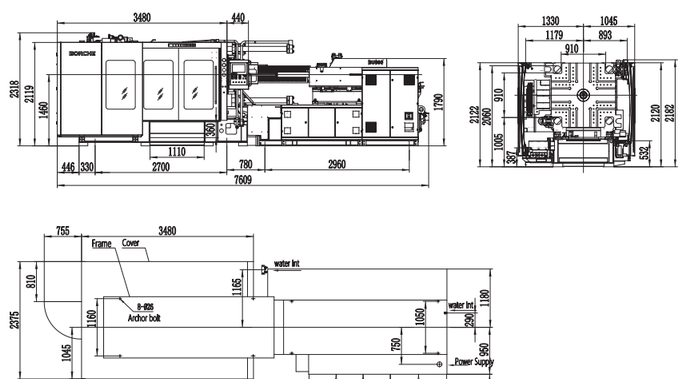
BU600-V

BORCHE

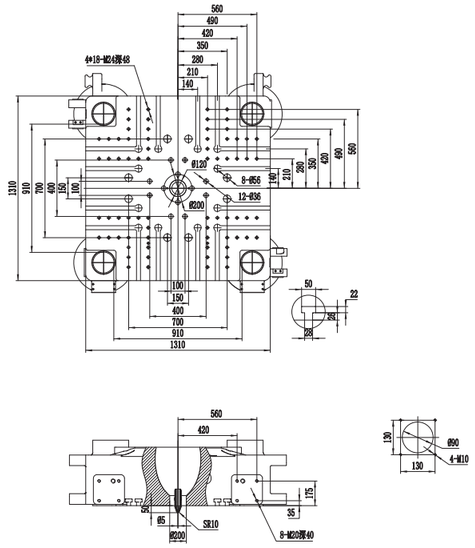
DESCRIPTION

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	cm^3	990	1347	1759	1539	2011	2545	**2262**	**2554**	**3190**	3181	3927	4330
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,HxV	mm×mm	1310x1310											
Space Between Tie Bars,HxV	mm×mm	910x910											
Daylight Max.	mm	1750											
Mold Thickness (min-max.)	mm	300-870											
Ejector Storke	mm	280											
Ejector Force	KN	135											
Ejector Pin Hole	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)	m×m×m	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



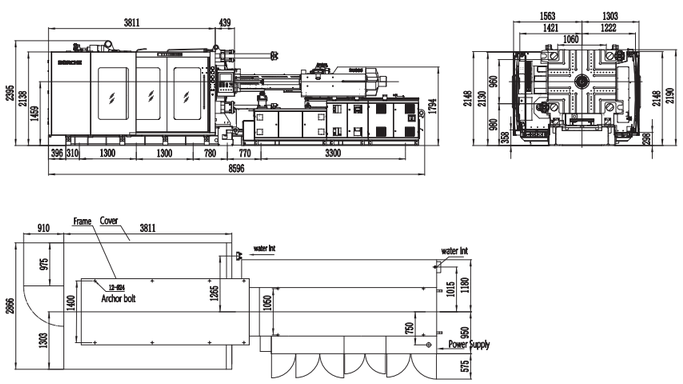
BU700-V

BORCHE

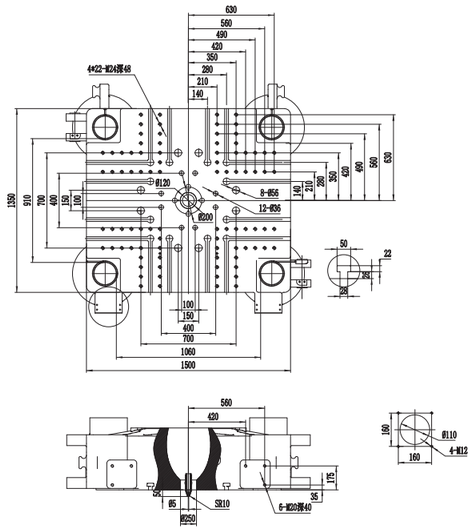
DESCRIPTION

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	cm^3	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 Hole	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)	m×m×m	7.85x2.87x2.4			7.94x2.87x2.4			8.6x2.87x2.4			8.97x2.87x2.4		
Machine Weight	KG	24000			24000			26000			28000		

Appearance and Installation Dimensions



Mold Platen Drawing



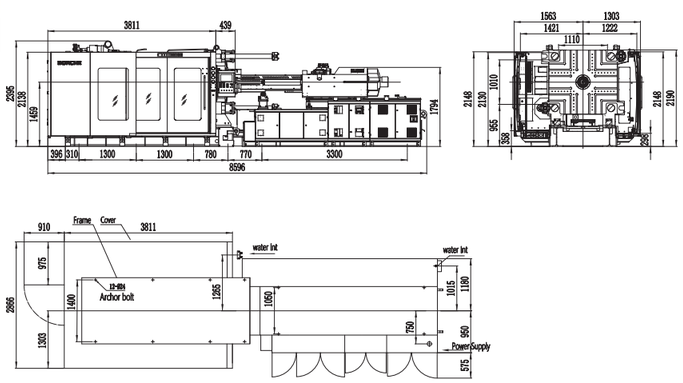
BU800-V

BORCHE

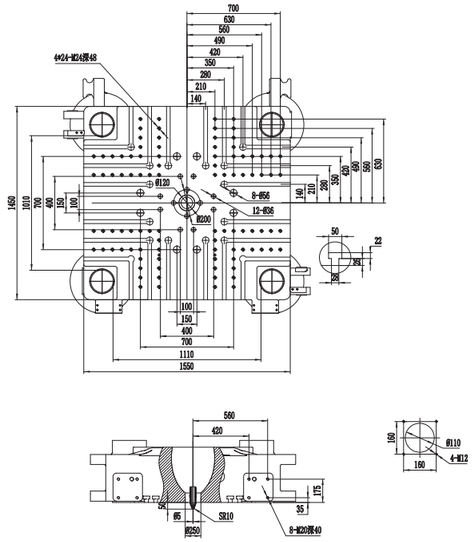
DESCRIPTION

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	cm^3	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 Hole	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)	m×m×m	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



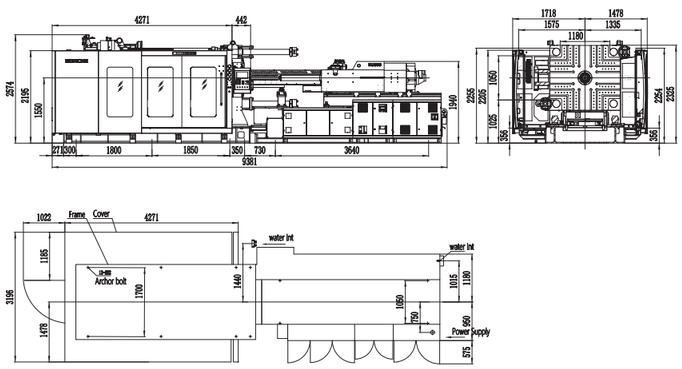
BU900-V

BORCHE

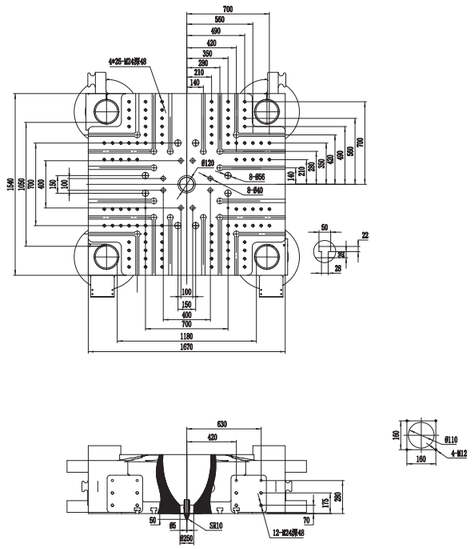
DESCRIPTION

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	cm^3	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
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 Storke	mm	350											
Ejector Force	KN	210											
Ejector Pin Hole	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



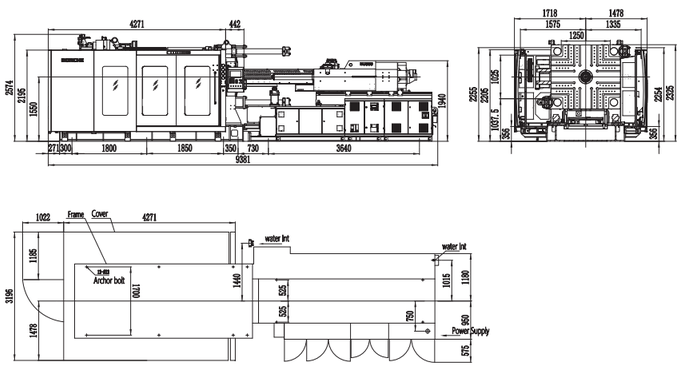
BU1000-V

BORCHE

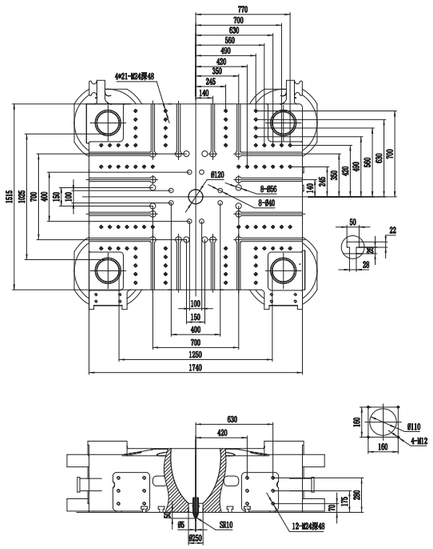
DESCRIPTION

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	cm^3	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
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 Storke	mm	350											
Ejector Force	KN	210											
Ejector Pin Hole	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



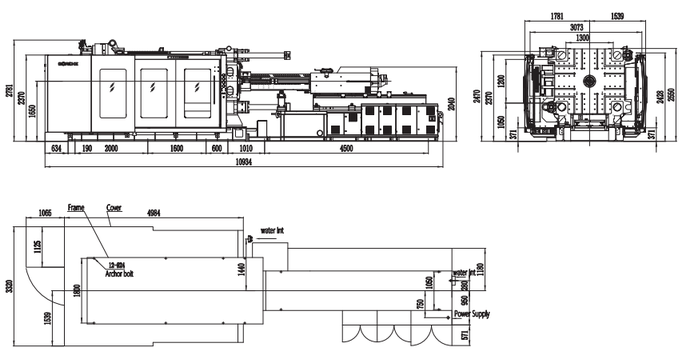
BU1200-V

BORCHE

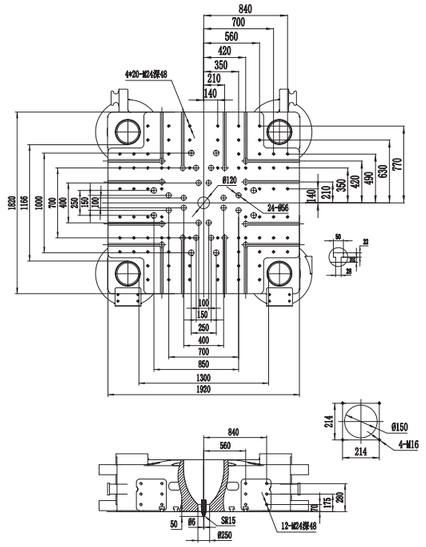
DESCRIPTION

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	cm^3	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			770			850			900		
Clamping Unit													
Clamping Force	KN	12000											
Mould Opening Stroke	mm	2000 / 1400											
Platen Size,HxV	mm×mm	1920x1820											
Space Between Tie Bars,HxV	mm×mm	1300x1200											
Daylight Max.	mm	2600											
Mold Thickness (min-max.)	mm	600-1200											
Ejector Storke	mm	380											
Ejector Force	KN	300											
Ejector Pin Hole	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)			127(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			1250			1250		
Machine Dimensions (LxWxH)	m×m×m	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



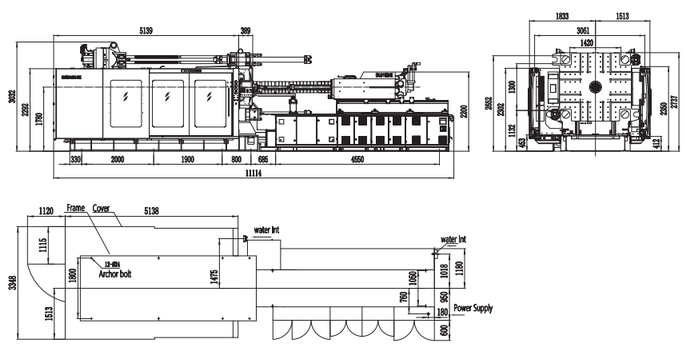
BU1350-V

BORCHE

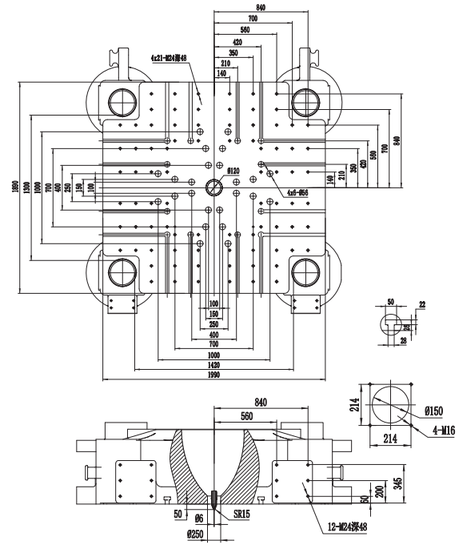
DESCRIPTION

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	cm^3	4123	4546	5453	5195	6232	7964	**6751**	**8628**	**10006**	9291	10776	12370
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	770			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 Storke	mm	380											
Ejector Force	KN	300											
Ejector Pin Hole	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(60+45+22)			135(60+45+30)			165(60x2+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			1251			1550		
Machine Dimensions (LxWxH)	m×m×m	10.27x3.5x3.6			11.1x3.5x3.6			11.2x3.5x3.6			11.91x3.5x3.6		
Machine Weight	KG	52000			54000			56000			58000		

Appearance and Installation Dimensions



Mold Platen Drawing



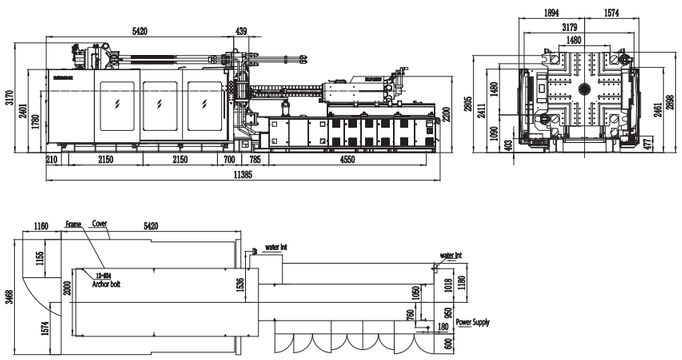
BU1500-V

BORCHE

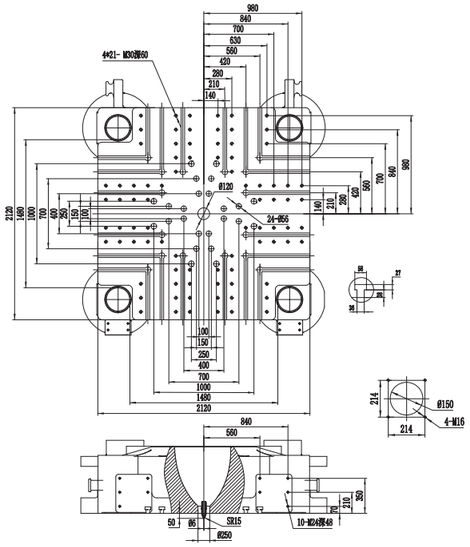
DESCRIPTION

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	6232	7964	**6751**	**8628**	**10006**	9291	10776	12370
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	770			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 Storke	mm	380											
Ejector Force	KN	300											
Ejector Pin Hole	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(60+45+22)			135(60+45+30)			165(60x2+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)	m×m×m	10.41x3.5x3.6			11.24x3.5x3.6			11.28x3.5x3.6			11.97x3.5x3.6		
Machine Weight	KG	57000			59000			61000			63000		

Appearance and Installation Dimensions



Mold Platen Drawing



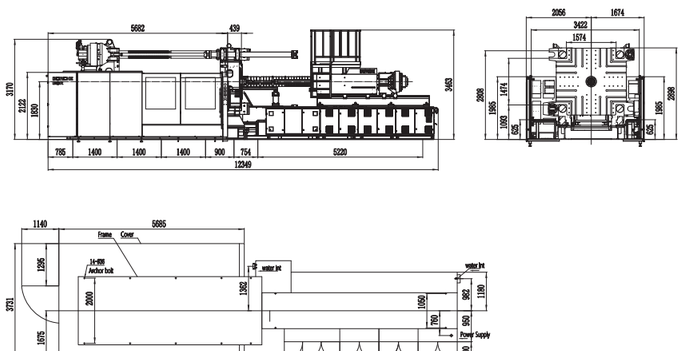
BU1650-V

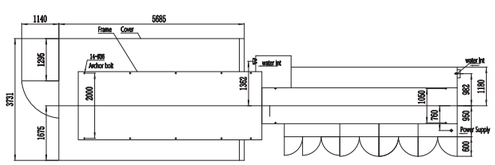
BORCHE

DESCRIPTION

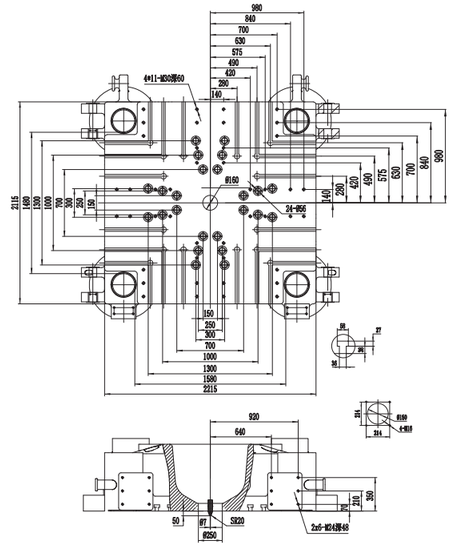
MOLDEL / INTERNATIONAL CLASS NO.	UNIT	BU1650-V											
		11500			13500			17650			29500		
Injction Unit													
Screw Diameter	mm	105	115	130	115	130	140	**130**	**140**	**150**	150	160	170
Shot Volume	cm^3	5195	6232	7964	6751	8628	10006	**9291**	**10776**	**12370**	16611	18900	21336
Shot Weight(PS)	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			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 Storke	mm	380											
Ejector Force	KN	300											
Ejector Pin Hole	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(60x2+45)			165(60x2+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)	m×m×m	11.62x3.6x3.6			11.66x3.6x3.6			12.35x3.6x3.6			13.71x3.6x3.6		
Machine Weight	KG	66000			68000			70000			78000		

Appearance and Installation Dimensions





Mold Platen Drawing



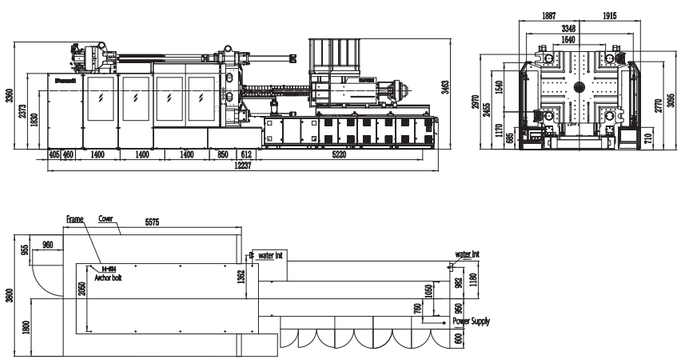
BU1800-V

BORCHE

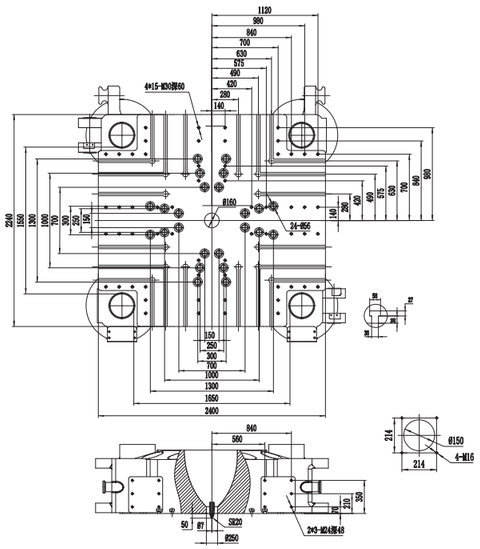
DESCRIPTION

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	5195	6232	7964	6751	8628	10006	**9291**	**10776**	**12370**	16611	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			200			290		
Nozzle Stroke	mm	850			900			965			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 Storke	mm	380											
Ejector Force	KN	300											
Ejector Pin Hole	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(60x2+45)			180(60+60+60)		
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)	m×m×m	11.62x3.8x3.6			11.66x3.8x3.6			12.35x3.8x3.6			13.71x3.8x3.6		
Machine Weight	KG	77000			79000			81000			89000		

Appearance and Installation Dimensions



Mold Platen Drawing



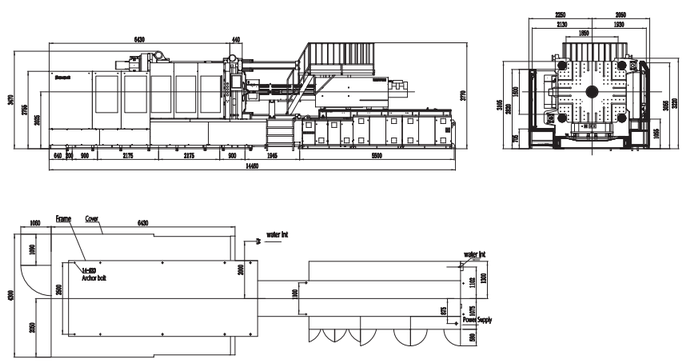
BU2200-V

BORCHE

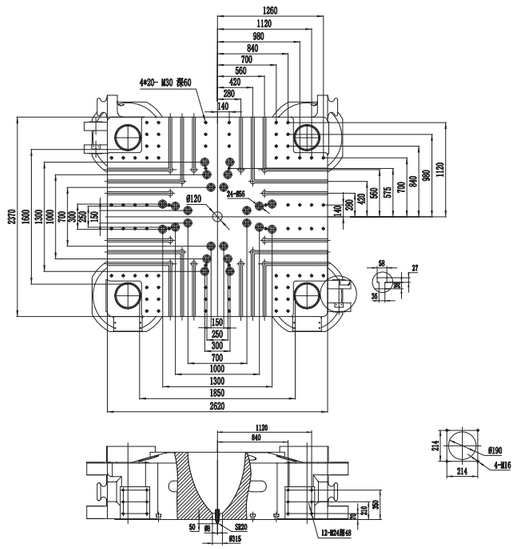
DESCRIPTION

MOLDEL / INTERNATIONAL CLASS NO.	UNIT	BU2200-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	6232	7964	6751	8628	10006	9291	10776	12370	**16611**	**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			120			102			85		
Nozzle Contact Force	KN	200			200			200			290		
Nozzle Stroke	mm	900			900			965			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 Storke	mm	450											
Ejector Force	KN	390											
Ejector Pin Hole	unit	8+8+8+1											
Power Unit													
System pressure	Mpa	17.5			17.5			17.5			17.5		
Pump Motor	kW	165(60x2+45)			165(60x2+45)			165(60x2+45)			180(60+60+60)		
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)	m×m×m	12.38x4.3x3.8			12.42x4.3x3.8			13.11x4.3x3.8			14.5x4.3x3.8		
Machine Weight	KG	96000			98000			100000			108000		

Appearance and Installation Dimensions



Mold Platen Drawing



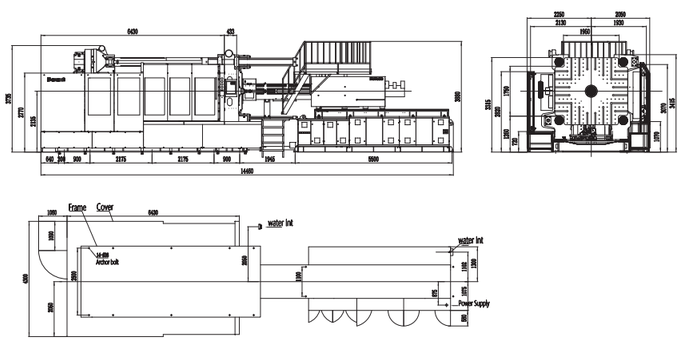
BU2500-V

BORCHE

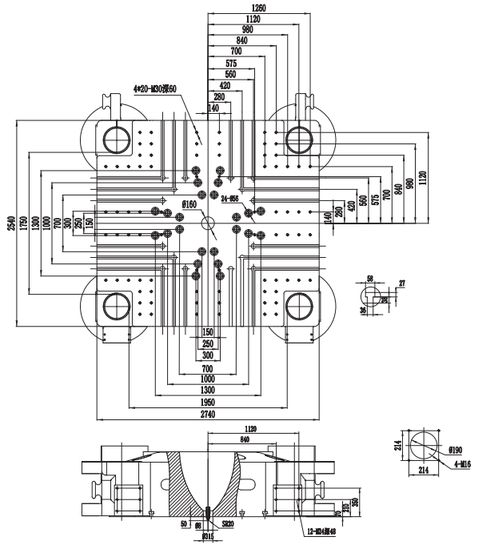
DESCRIPTION

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			230			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 Hole	unit	8+8+8+1								
Power Unit										
System pressure	Mpa	17.5			17.5			17.5		
Pump Motor	kW	176(94+60+22)			180(60+60+60)			199(94+60+45)		
Heating Capacity	kw	79			97			176		
NO.of Heater Zones	unit	9			9			15		
General Unit										
Oil Tank Capacity	L	1550			1750			2880		
Machine Dimensions (LxWxH)	m×m×m	13.22x4.3x3.9			14.6x4.3x3.9			15.6x4.3x3.9		
Machine Weight	KG	110000			118000			126000		

Appearance and Installation Dimensions



Mold Platen Drawing



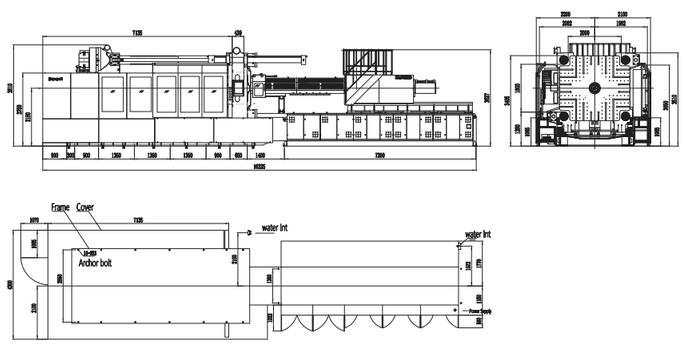
BU2800-V

BORCHE

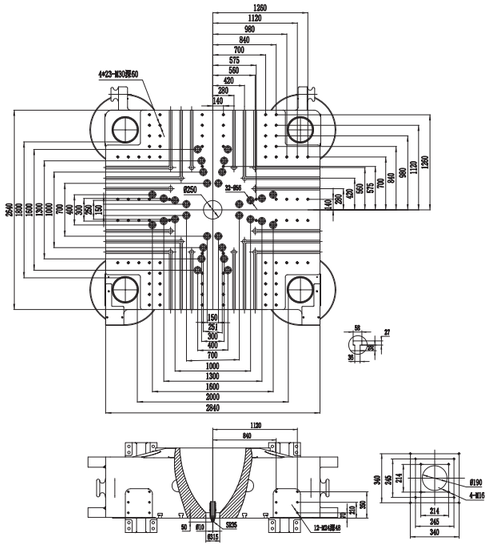
DESCRIPTION

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**	38287	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**	1229	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	114	85	72	72	60
Nozzle Contact Force	KN	200	230	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 Hole	unit	8+8+8+8+1				
Power Unit						
System pressure	Mpa	17.5	17.5	17.5	17.5	17.5
Pump Motor	kW	184(94+60+30)	180(60+60+60)	199(94+60+45)	214(60x2+94)	233(94x2+45)
Heating Capacity	kw	79	97	176	176	186
NO.of Heater Zones	unit	9	9	15	15	15
General Unit						
Oil Tank Capacity	L	1550	1750	2880	2880	2880
Machine Dimensions (LxWxH)	m×m×m	14.0x4.3x3.9	15.35x4.3x3.9	16.35x4.3x3.9	16.35x4.3x3.9	17.2x4.3x3.9
Machine Weight	KG	126000	134000	142000	142000	146000

Appearance and Installation Dimensions



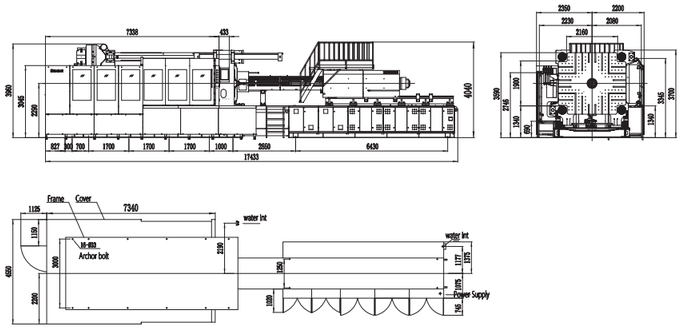
Mold Platen Drawing



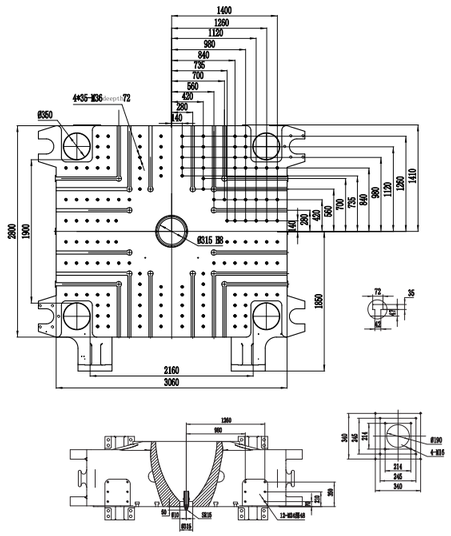
DESCRIPTION

MOLDEL / INTERNATIONAL CLASS NO.	UNIT	BU3300-V				
		17650	29500	40700	51400	64000
Injection Unit						
Screw Diameter	mm	130 140 150 150 160 170 165 185 205			205	**215**
Shot Volume	cm^3	9291 10776 12370	16611 18800 21936	19779 24864 30531	38287	**45744**
Shot Weight(PS)	g	8455 9806 11257	15116 17099 19416	17999 22626 27783	34842	**41627**
Shot Weight(PS)	OZ	298 346 397	533 607 685	635 798 980	1229	**1468**
Injection Pressure	Mpa	191 164 143	178 155 139	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	114	85	72	72	60
Nozzle Contact Force	KN	200	230	230	290	290
Nozzle Stroke	mm	965	1100	110	1110	1110
Clamping Unit						
Clamping Force	KN	33000				
Mould Opening Stroke	mm	3160 / 2160				
Platen Size,HxV	mm×mm	3060×2800				
Space Between Tie Bars,HxV	mm×mm	2160×1900				
Daylight Max.	mm	4160				
Mold Thickness (min-max.)	mm	1000-2000				
Ejector Storke	mm	550				
Ejector Force	KN	550				
Ejector Pin Hole	unit	8+8+8+8+1				
Power Unit						
System pressure	Mpa	17.5	17.5	17.5	17.5	17.5
Pump Motor	kW	184(94+60+30)	180(60+60+60)	199(94+60+45)	214(60x2+94)	233(94x2+45)
Heating Capacity	kw	79	97	176	176	186
NO.of Heater Zones	unit	9	9	15	15	15
General Unit						
Oil Tank Capacity	L	1550	1750	2881	2880	2880
Machine Dimensions (LxWxH)	m×m×m	14.29x4.55x4.1	15.65x4.55x4.1	16.65x4.55x4.1	16.65x4.55x4.1	17.5x4.55x4.1
Machine Weight	KG	146000	154000	162000	162000	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	3 sizes of screw/barrel available(ABC)	●
5	Nozzle centering calibration	●
6	Injection unit adopts linear guide rail	●
7	High torque hydraulic motor	●
8	Ceramic heater band	●
9	With screw and barrel support. (≥IU5700)	●
10	Bearing supported hopper slider (≤ IU13500)	●
11	Hopper platform (≥IU17650)	●
12	Electric lock on nozzle cover	●
13	Protection cover on heater band	●
14	Nonslip embossed aluminum sheet	●
15	High pressure/temperature tube for cooling ring on hopper throat	●
16	Leakage protection when suckback	●
17	Screw RPM sensor	●
18	Screw cold start proection	●
19	4 ways of carriage backward	●
20	10 stages of injection, pressure/sppeed ajustable	●
21	10 stages of pressure holding, pressure/sppeed ajustable	●
22	5 stages of plasticizing, pressure/sppeed ajustable	●
23	Temp. sensor on hopper throat	●

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). (≥1200 T)	●
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

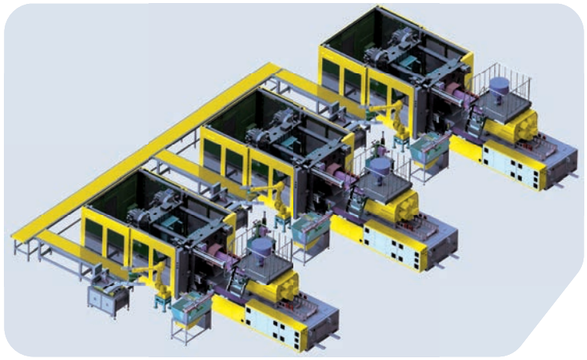
BORCHE

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

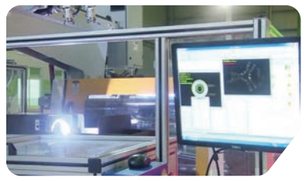
BORCHE

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

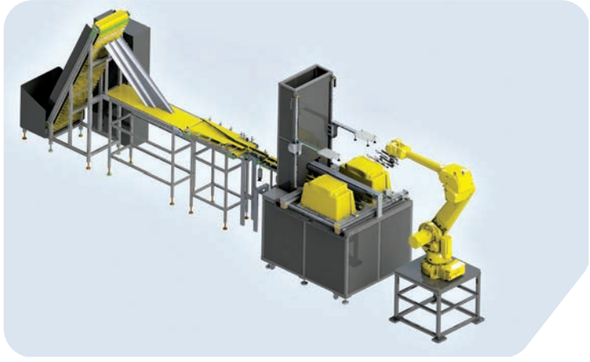


02 Flexible Automation -360° visual detection, robot operation, automatic assembling, parts insert, polishing and deburring...

Visual Detective System



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



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