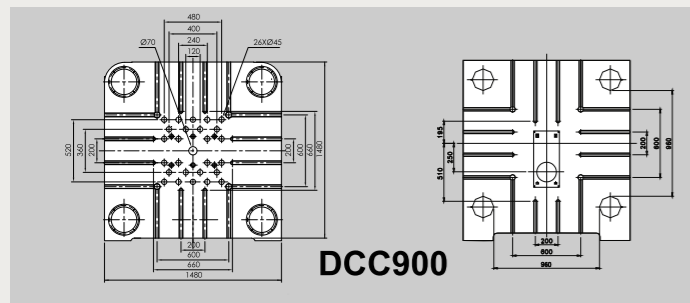
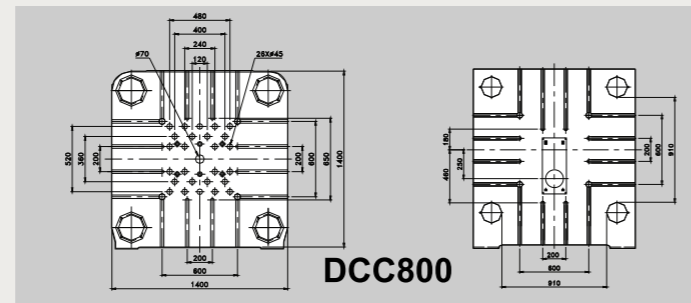
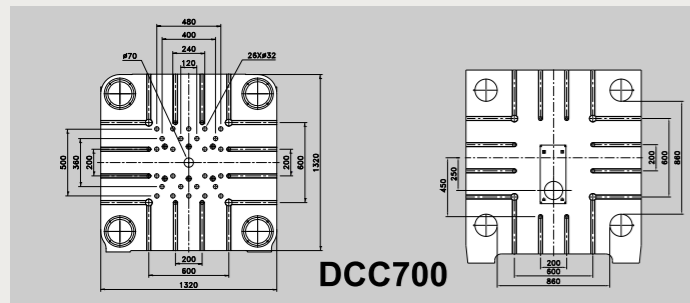
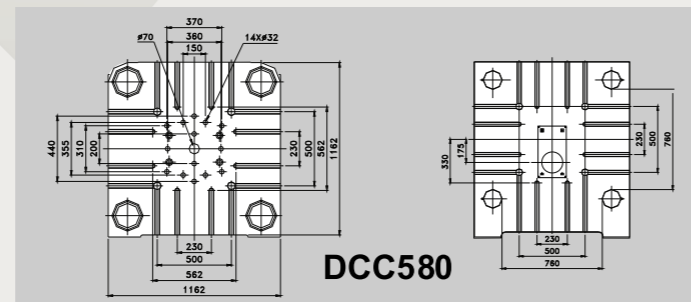
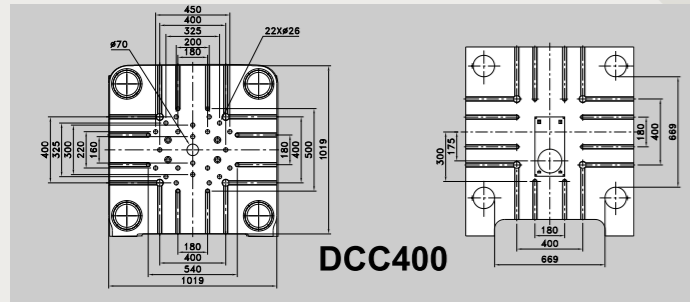
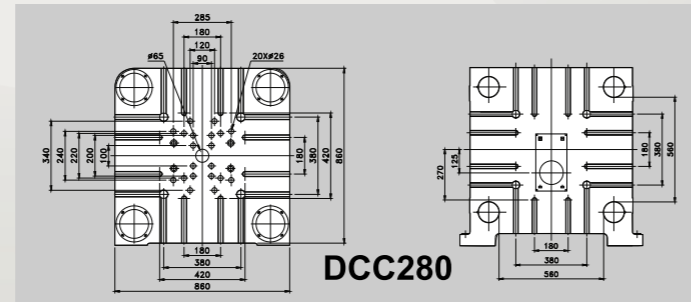
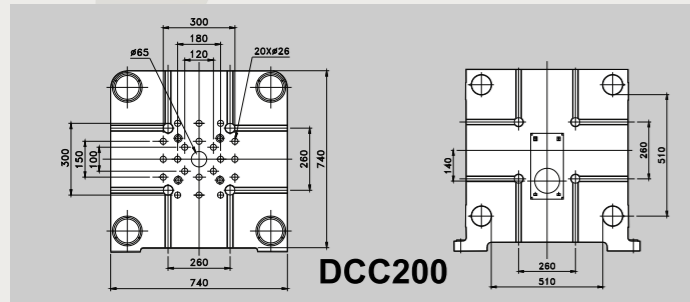
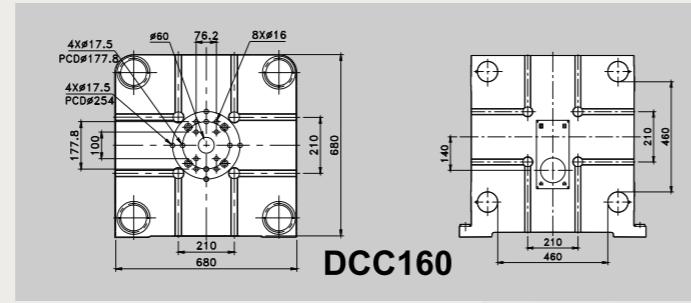
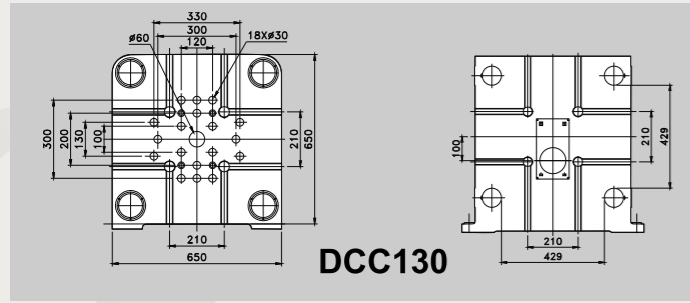


Platen Dimensions



IMPRESS-III

ENERGY EFFICIENT COLD CHAMBER DIE CASING MACHINE

LK Machinery International Limited
 Head Office Add.: Unit A, 8th Floor, Mai Wah Industrial Building,
 1-7 Wah Sing Street, Kwai Chung, New Territories, Hong Kong
 Tel: (852) 3412 5500 Fax: (852) 3412 5511
 Website: www.lk.world
 E-mail: sales@lk.world



Sales Contact:

Simple and effective solution for you

- *Easy to use*
- *Energy efficient*
- *Powerful and flexible*

1 | **Advanced operating system**

- Color touchscreen, with clear instructions and easy to use functions
- Advanced smart control system with more functions (optional)

2 | **Smart die height adjustment**

- Gear type die height adjustment with anti-loose function, result in precise adjustment and more stable production
- Smart die height adjustment save time and easy operations (optional)

3 | **Stable injection unit**

- The coaxial injection mechanism design can provide strong and stable injection force
- Hydraulic check valve for faster pressure buildup and easier control
- Applied with Non-contact type magnetic encoder is used at the plunger position for more convenience and durability
- Automatic or smart injection with more advanced injection functions (optional)

4 | **Champing system**

- Top-notch toggle and tie bar design to ensure reliability and durability
- Die opening backpressure circuit design, with faster die open/close and higher stability

5 | **Hydraulic driving system**

- Designed to be energy efficient
- Servo energy saving system that can further reduce energy consumption (optional)

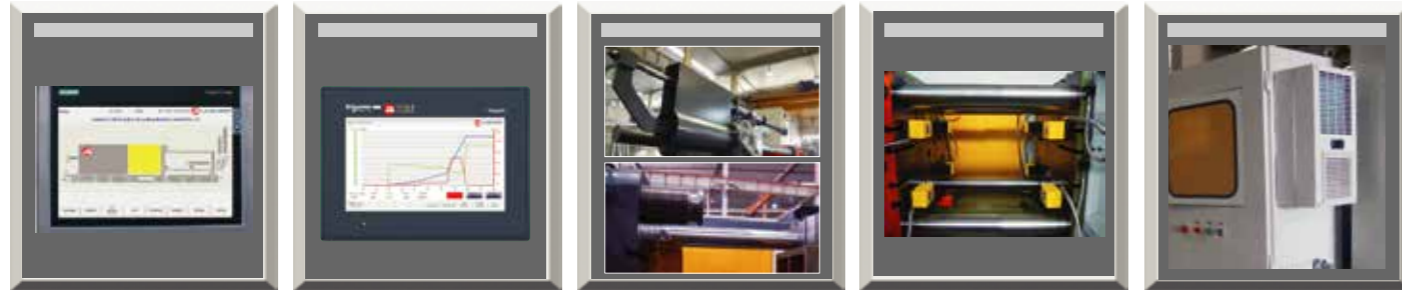
6 | **Safety door**

- Light weight design
- Electric safety door that can achieve fully automatic operation (optional)

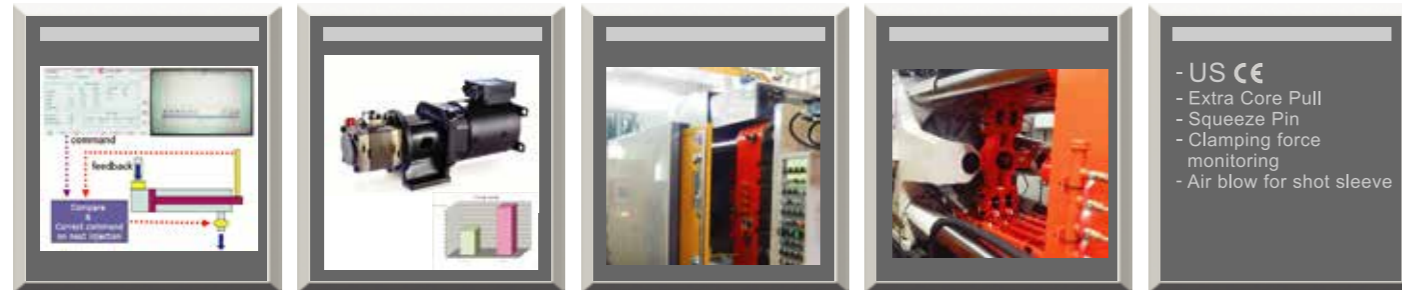


* The picture is for reference only

Options



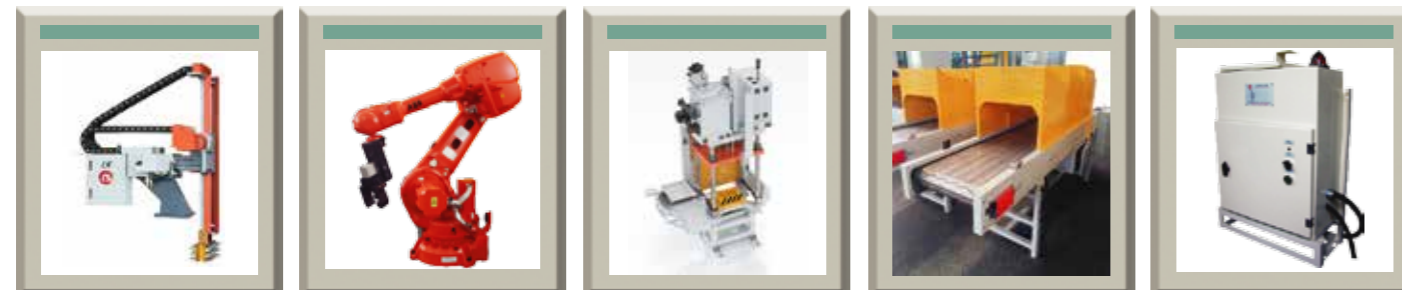
- ▣ Siemens PLC control system
- ▣ Injection curve display
- ▣ Hydraulic tie bar extraction
- ▣ Quick Die Change System
- ▣ Air Conditioner for control cabinet



- ▣ Smart Injection Control System
- ▣ Energy saving servo pump
- ▣ Auto-door with No-Top-Rail Frame
- ▣ Smart die height adjustment system

- US CE
- Extra Core Pull
- Squeeze Pin
- Clamping force monitoring
- Air blow for shot sleeve

Peripherals



- ▣ More choice of Auto-sprayer
- ▣ More choice of Auto-extractor
- ▣ Hydraulic trim press (able to interface with robot arm)
- ▣ Conveyor with cooling fan
- ▣ Solid State Plunger Lubrication Device



- ▣ Gas / Electrical Heating Furnace
- ▣ Die Temperature Controller
- ▣ Die Lubrication Auto Dilutor
- ▣ Vacuum system
- ▣ Safety fence with access door



LN Series 5-axis Ladler

| Model | LN-02 | LN-04 | LN-06 |
|------------------------|---|-----------|---------|
| Applicable DCM | 130-400 T | 580-800 T | 900 T |
| Ladle Amount | 1.0-3.5 kg | 3, 5-8 kg | 8-20 kg |
| Ladling Accuracy | ± 2 % | ± 2 % | ± 2 % |
| Ladle Cup Size | 1/1.5/2.5/3.5/4.5/6/8/10/12kg | | |
| Min. Crucible Diameter | 480 mm | 580 mm | 800 mm |
| Ladle Motor | 0.2 kW | 0.2 kW | 0.4 kW |
| Arm Motor | 0.75 kW | 0.75 kW | 1.5 kW |
| Control System | Controlled by Die Casting Machine Control Cabinet | | |
| Position Control | Digital setting on screen | | |



ST-V Series Servo Sprayer

| Model | ST-01V | ST-02V | ST-03V | ST-04V |
|---|--|--|--|--|
| Applicable DCM | 130-200T | 280-400T | 580T | 700-900T |
| No. of Sprayer Nozzles on Fixed Platen | Total no.: 10 (2 rows x 5 pieces) | Total no.: 14 (2 rows x 7 pieces) | Total no.: 18 (2 rows x 9 pieces) | Total no.: 18 (2 rows x 9 pieces) |
| No. of Sprayer Nozzles on Moving Platen | Total no.: 10 (2 rows x 5 pieces) | Total no.: 14 (2 rows x 7 pieces) | Total no.: 18 (2 rows x 9 pieces) | Total no.: 18 (2 rows x 9 pieces) |
| Air Blow Amount | Total no.: 10 (Moving Platen: 5, Fixed Platen: 5) | Total no.: 14 (Moving Platen: 7, Fixed Platen: 7) | Total no.: 16 (Moving Platen: 8, Fixed Platen: 8) | Total no.: 16 (Moving Platen: 8, Fixed Platen: 8) |
| Sprayer Head Control Unit | Controlled Based on row, 1unit per row, totaling 4 units | | | |
| Vertical Stroke | 650mm | 800mm | 1100mm | 1300mm |
| Base Stroke | 250mm | 250mm | 400mm | 400mm |
| Servo Motor Power | 3.0 kW | 3.0 kW | 3.0 kW | 4.4 kW |
| Control System | Controlled by Die Casting Machine Control Cabinet | | | |
| Method of Spraying Time Adjustment | Digital setting on screen | | | |



EP-V Series Servo Extractor

| Model | EP-01V | EP-02V | EP-03V | EP-04V |
|------------------------|------------------------------------|-----------------------|-----------------------|-----------------------|
| Applicable DCM | 130-200 T | 280-400 T | 580T | 700-900T |
| Gripper Diameter | 40-80 mm | 40-80 mm | 50-90 mm | 60-110 mm |
| No. of Gripper Fingers | 2 | 2 | 3 | 3 |
| Extracting Force | 68 kgf | 68 kgf | 98 kgf | 98 kgf |
| Max. Extracting Stroke | 250mm | 250mm | 300mm | 300mm |
| Air Pressure | 6 kgf/cm ² | 6 kgf/cm ² | 6 kgf/cm ² | 6 kgf/cm ² |
| Casting Weight | 3 kg | 4 kg | 6 kg | 6 kg |
| Servo Motor Power | 0.85 kW | 0.85 kW | 1.3 kW | 1.3 kW |
| Control System | Integrated control on DCM's screen | | | |

IMPRESS-III Specifications

| ITEMS | | UNIT | DCC130 | | | DCC160 | | | DCC200 | | | DCC280 | | |
|----------------|---|-----------------|----------------|------|-----|----------------|------|-----|----------------|------|------|----------------|-----|-----|
| CLAMPING UNIT | Locking Force | kN | 1450 | | | 1600 | | | 2000 | | | 2800 | | |
| | Die Open Stroke | mm | 350 | | | 380 | | | 400 | | | 460 | | |
| | Ejector Force | kN | 108 | | | 108 | | | 108 | | | 150 | | |
| | Ejector Stroke | mm | 85 | | | 85 | | | 100 | | | 105 | | |
| | Die Height (Min. - Max.) | mm | 250-500 | | | 200-550 | | | 200-600 | | | 250-650 | | |
| | Die Platen Size (HXV) | mm | 650X650 | | | 680X680 | | | 740X740 | | | 860X860 | | |
| | Space Between Tie Bars | mm | 429X429 | | | 460X460 | | | 510X510 | | | 560X560 | | |
| INJECTION UNIT | Shot Position | mm | 0 | -100 | 0 | -75 | -140 | 0 | -140 | 0 | -125 | -140 | | |
| | Shot Stroke | mm | 320 | | | 340 | | | 370 | | | 400 | | |
| | Injection Force (Intensify) | kN | 220 | | | 270 | | | 270 | | | 330 | | |
| | Plunger Diameter | mm | 40 | 50 | 60 | 40 | 50 | 60 | 50 | 60 | 70 | 50 | 60 | 70 |
| | Shot Weight (Al) | kg | 0.7 | 1.15 | 1.6 | 0.8 | 1.3 | 1.8 | 1.35 | 1.95 | 2.65 | 1.5 | 2.1 | 2.9 |
| | Casting Pressure (Intensify) | MPa | 175 | 112 | 77 | 214 | 137 | 95 | 137 | 95 | 70 | 168 | 116 | 85 |
| | Casting Area | cm ² | 82 | 129 | 186 | 74 | 116 | 167 | 145 | 209 | 285 | 166 | 239 | 326 |
| | Casting Area Max. (40MPa) | cm ² | 362 | | | 400 | | | 500 | | | 700 | | |
| | Chamber Flange Diameter | mm | 110 | | | 101.6 | | | 101.6 | | | 101.6 | | |
| | Height of Pressure Chamber Flange | mm | 10 | | | 12 | | | 12 | | | 12 | | |
| | Plunger Penetration | mm | 115 | | | 135 | | | 140 | | | 140 | | |
| OTHERS | Main Pump Driving Motor ▲ | kW | 11 | | | 15 | | | 15 | | | 18.5 | | |
| | Working Pressure | MPa | 14 | | | 14 | | | 14 | | | 14 | | |
| | Oil Tank Capacity | L | 480 | | | 520 | | | 550 | | | 670 | | |
| | Machine Dimensions (LXWXH)* | mm | 5680X1610X2584 | | | 5600X1640X2564 | | | 5970X1680X2605 | | | 6300X1785X2675 | | |
| | Referential Machine Weight [#] For Uplifting | T | 6.5 | | | 7 | | | 8 | | | 11.5 | | |

□ Option
CAT.NO.: E20-12-04

▲ Based on fix pump of IMPRESS-III
* The machine dimensions does not include furnace and control cabinet.
Machine weight does not include any options or peripherals

| | | DCC400 | | | DCC580 | | | DCC700 | | | DCC800 | | | DCC900 | | | |
|--|--|----------------|------|-----|----------------|-----|------|----------------|------|-----|----------------|-----|------|----------------|------|------|------|
| | | 4000 | | | 5800 | | | 7000 | | | 8000 | | | 9000 | | | |
| | | 550 | | | 580 | | | 720 | | | 760 | | | 800 | | | |
| | | 180 | | | 240 | | | 315 | | | 315 | | | 360 | | | |
| | | 125 | | | 140 | | | 160 | | | 180 | | | 190 | | | |
| | | 300-700 | | | 350-850 | | | 350-900 | | | 400-950 | | | 400-1000 | | | |
| | | 1019X1019 | | | 1162X1162 | | | 1320X1320 | | | 1400X1400 | | | 1480X1480 | | | |
| | | 669X669 | | | 760X760 | | | 860X860 | | | 910X910 | | | 960X960 | | | |
| | | 0 | -175 | 0 | -175 | 0 | -250 | 0 | -250 | 0 | -250 | 0 | -250 | 0 | -250 | | |
| | | 500 | | | 580 | | | 700 | | | 760 | | | 760 | | | |
| | | 410 | | | 480 | | | 590 | | | 680 | | | 775 | | | |
| | | 60 | 70 | 80 | 70 | 80 | 90 | 80 | 90 | 100 | 80 | 90 | 100 | 80 | 90 | 100 | 110 |
| | | 2.7 | 3.6 | 4.7 | 4.2 | 5.4 | 6.9 | 6.5 | 8.3 | 10 | 7.1 | 9 | 11.2 | 7.1 | 9 | 11.2 | 13.5 |
| | | 145 | 106 | 81 | 124 | 95 | 75 | 117 | 92 | 75 | 135 | 106 | 86 | 154 | 121 | 98 | 81 |
| | | 275 | 375 | 490 | 465 | 607 | 768 | 596 | 754 | 931 | 591 | 748 | 924 | 583 | 738 | 912 | 1103 |
| | | 1000 | | | 1450 | | | 1750 | | | 2000 | | | 2250 | | | |
| | | 101.6 | | | 165 | | | 165 | | | 200 | | | 200 | | | |
| | | 12 | | | 15 | | | 15 | | | 20 | | | 20 | | | |
| | | 200 | | | 250 | | | 250 | | | 295 | | | 300 | | | |
| | | 30 | | | 30 | | | 37 | | | 45 | | | 45 | | | |
| | | 14 | | | 14 | | | 14 | | | 14 | | | 14 | | | |
| | | 800 | | | 1000 | | | 1200 | | | 1300 | | | 1400 | | | |
| | | 7190X1990X2810 | | | 7690X2130X2855 | | | 8460X2230X2945 | | | 8840X2345X2995 | | | 9270X2700X3355 | | | |
| | | 15.5 | | | 21 | | | 29 | | | 31.5 | | | 38 | | | |

• We reserve the right to make any technical improvement without further notice.