



Cold Chamber Die Casting Machine

冷室壓鑄機



High efficiency, Excellent
performance, technological
advancement.

高效率、高品質技術的提昇！



鋁台精機廠股份有限公司
ZITAI PRECISION MACHINERY CO.,LTD.

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鋁台精機廠股份有限公司
ZITAI PRECISION MACHINERY CO.,LTD.

A mission to create new horizon of die casting technology.

Founded in 1981, ZITAI has been in professional cold chamber die casting machine & ancillary equipments manufacturing ever since. Through years of dedication and commitment the name "ZITAI" is finally being a source to be reckon with & accepted in Die casting industry globally.

It is this realization of the spirit of pursuing technological advancement & uncompromising craftsmanship that make "ZITAI" a forerunner throughout endless competition, which is also a major driving force behind our growth.

Looking into the future, customers' requirements & satisfaction will always be our ultimate concern which will eventually lead to development of ever more updated products in the years to come.

鋁台精機廠股份有限公司，創立於1981年，專業生產冷室壓鑄機及週邊設備，二十餘年來在鋁台全體同仁的努力奮鬥中，以“ZITAI”之自有品牌行銷全世界，並受到業界相當之肯定。

鋁台公司深切體認，唯有優越的品質與完善的服務，才是客戶的最大保障，更是鋁台公司在永無休止的競爭中，永續經營的最大動力。展望前景，唯有不斷的研究、創新產品，滿足客戶的需求，即是我們的目標，亦是鋁台在業界中應負的使命。

ZITAI, through its unique manufacturing concept and outstanding engineering capability, is able to build reliable die casting machines.

ZITAI starts with a better machine design, then manufacturing and assembly are conducted according to the company's strict quality assurance policy. Expert craftsmanship and close attention to every assembly detail assures high quality machines for our customers. Rigorous testing of all machines is performed prior to shipping. This is your assurance that ZITAI die casting machine will give you accurate, efficient, and reliable performance.

鋁台公司基於獨特的造機理念，及優異的整體工程能力，貫徹品質之精神，更始自於機械設計之不斷創新，裝配過程完全依據公司嚴格品保政策，對每一個裝配動作極力關注，充份顯現匠心獨運的不凡技藝，確保每一部鋁台壓鑄機之高品質標準。出廠前的徹底測試，更為鋁台機器之精密度，高效率及性能信賴度作最嚴苛的考驗。



Quality through better design and expert workmanship.

品質始於設計及匠心獨運的展現



A source you can trust for value-added services.

高價值的技術服務

Modern facility provides efficient working environment.

現代化廠房規劃，作業流程順暢

At ZITAI, our people committed to excellence. This reflect in quality, innovation to every aspect of our business from machine design to the assembly floor, to our sales and service activities; enhancing the value of every ZITAI machine. We use a computerized company management system that provides efficient, accurate handling for the production and business.

Our team of experienced professionals with comprehensive knowledge of engineering offers you the foremost in die casting technology. This combination of technology backed by our experienced staff helps you to increase the value of die casting.

鋁台公司矢志追求卓越。此種精神充分反應在堅持品質，創新突破的努力。從設計、裝配、銷售、服務之每一個層面，在在強調鋁台機械之新價值觀。公司運作之全面電腦化作業，提供生產及業務之高效率及絲毫不苟之精神。經驗豐富的技術團隊，擁有廣泛的壓鑄事業歷練，隨時為您提供先進的壓鑄技術，讓您徹底了解壓鑄成品的價值標準。更為將來壓鑄技術提昇與您建立密切的關係。



Measuring instrument

零件二次元品管檢驗



Computerized inventory management.

電腦化庫存管理



Electrical wiring

電器組裝

Outstanding Features

優異的特性

特殊選購增加配備

電腦控制系統 <VPC系列>

射出位置升降式裝置

超高速射出系統

操作側上方自動拆柱設備

模具油壓夾持系統

顆粒式柱塞潤滑裝置

離型劑自動混合配比裝置

真空吸引裝置

模溫控制系統

熔解設備

OPTIONAL FEATURES & FUNCTIONS

Close loop control system (VPC series)

Multiple shot position

High shot speed system

Auto tie bar puller (operator side)

Auto hydraulic die clamping system

Auto wax bead plunger tip lubrication

Auto mixing ratio for release agent

Vacuum system

Die temperature control system

Melting equipment

鑄造能力計算公式

柱塞面積 a (cm²)

$$a = \frac{\pi}{4} \times d^2$$

射出力 F_s (kgf)

$$F_s = \left(\frac{\pi}{4} \times D_s^2 \right) \times P$$

鑄造壓力 P_u (kgf/cm²)

$$P_u = F_s \div a$$

鎖模力 F_{cl} (kgf)

$$F_{cl} = P_u \times A_u$$

實射出重量 W (g)

$$W = (0.75 \times L_s \times a) \times 2.6$$

d : 柱塞直徑 (cm)

D_s : 射出油壓缸直徑 (cm)

P : 射出油壓壓力 (kgf/cm²)

A_u : 鑄造面積 (cm²)

L_s : 射出行程 (cm)

CASTING CAPACITY FORMULA

Plunger tip area a (cm²)

$$a = \frac{\pi}{4} \times d^2$$

Shot force F_s (kgf)

$$F_s = \left(\frac{\pi}{4} \times D_s^2 \right) \times P$$

Casting pressure P_u (kgf/cm²)

$$P_u = F_s \div a$$

Clamping force F_{cl} (kgf)

$$F_{cl} = P_u \times A_u$$

Net shot weight W (g)

$$W = (0.75 \times L_s \times a) \times 2.6$$

d : Plunger tip dia (cm)

D_s : Shot cylinder dia (cm)

P : Shot cylinder pressure (kgf/cm²)

A_u : Casting area (cm²)

L_s : Shot stroke (cm)



Die locking force test & Tie bar strain value analysis.

鎖模力測試與四柱平均受力分析



Shot performance testing.

射出性能檢測



Employed with maximum durability, wear- resistance oil-free bushing.

高強度、高耐磨性之無給油襯套



Close loop control system for Z2 series with ongoing parameter feedback.

回饋式閉迴路射出控制 (Z2系列)



Motorised die height adjustment system.

電動式自動調模系統



Slide cushion.

加厚型鋼板滑座



Shot speed control is read by precision scale gauge.

精確之射出速度控制刻度錶



Shot stroke measuring by sensor rod.

感應式射出行程感測器

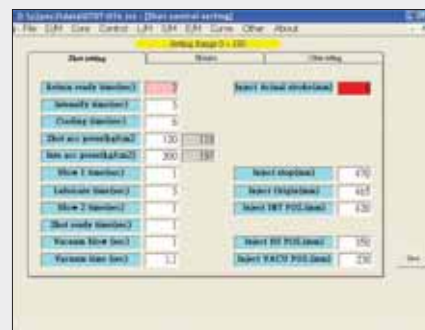
C Series

Control System C系列控制系統



The control system employs industrial grade computer which made possible that all casting parameters to be set on it. It is a close loop & auto feed back system with self-diagnosis, self-correction and self monitoring described as below:

本系統採用工業級微電腦控制，所有壓鑄機條件均可在電腦上設定，並採用閉迴路回饋功能，自動校測、調整、監控；其各項功能如下列所述：



SHOT PARAMETER SETTING

Close loop system means self-data feedback, self-diagnostic & self correction all at once, becoming easier and more accurate.

射出模組資料設定

射出各段速度均採閉迴路回饋系統，可自行計算速度值，判斷誤差值，並自動重新訂正速度，而且其射出行程控制亦採用數位化光電感測器，使其行程設定更簡便，更精確。



AUTO LADLE PARAMETER SETTING

Molten aluminum feeding speed & volume is controlled by potentiometer sensor. Biscuit thickness is assured by preset value.

給湯機模組資料設定

熔鋁之供給計量及給湯動作控制均採用光電感測器達到精確化與設定簡便化。並能自動檢測預留料厚度來調整供給計量。手臂速度、給湯速度之控制與各項動作時間之設定均由電腦統一管理。

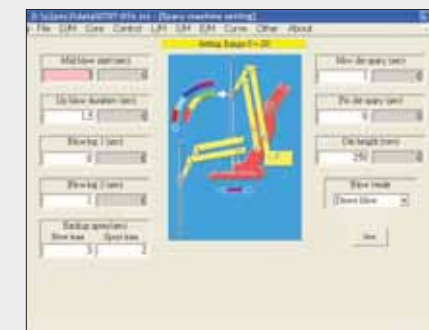


AUTO EXTRACTOR PARAMETER SETTING

Movement of extractor is also controlled by potentiometer, this makes user-friendly parameter setting possible i.e. speed, distance and even easier for data management.

取出機模組資料設定

橫移動作採用電動控制與光電感測尺檢測，其速度與行程控制均可由電腦上設定，其方便性佳，模組資料之儲存亦容易。

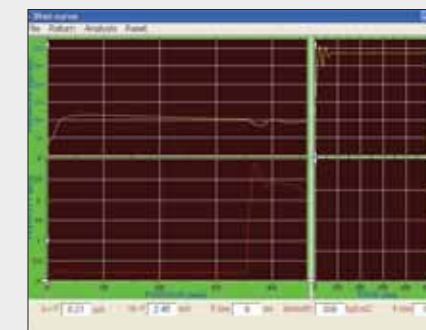


AUTO SPRAYER PARAMETER SETTING

Spraying time of chemical agent is to be set from control panel, even Auto sprayer machine's position is adjustable by same method according to various die height.

噴霧機模組資料設定

各項功能選擇與動作時間，均在電腦上設定，並可依據模具尺寸設定模厚行程位置，達到方便性佳，節省人力。



SHOT GRAPHIC DISPLAY

This graphic display of velocity & pressure for each shot ensures quality casting is guaranteed.

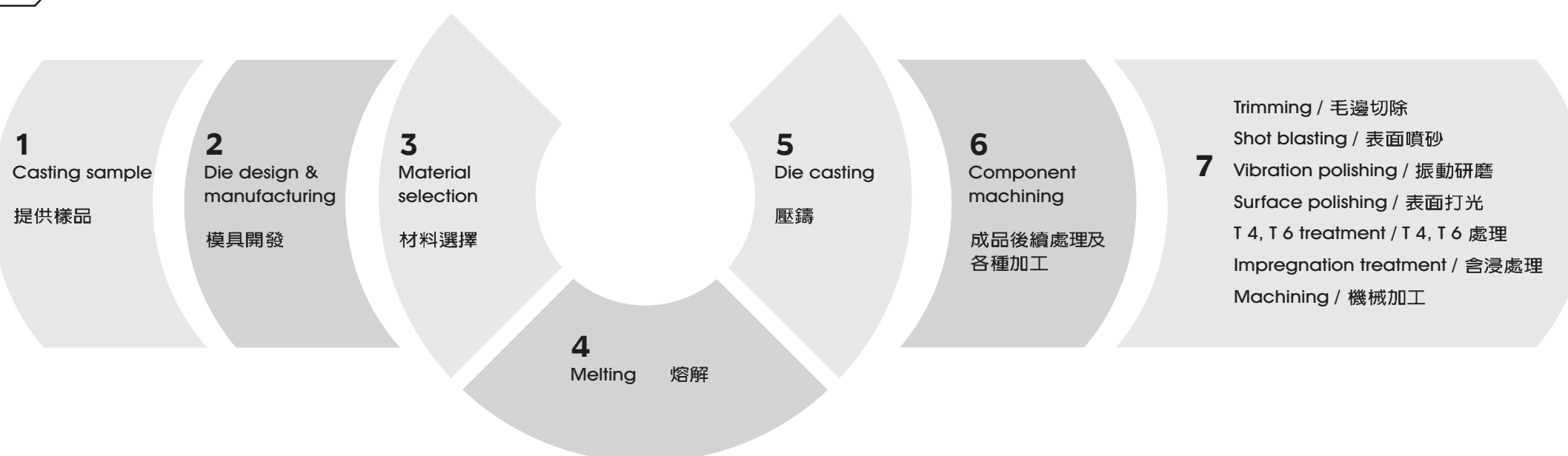
壓鑄射出行程曲線

根據射出壓力與射出速度曲線之顯示來了解分析壓鑄品質是否穩定，並依各項平均數值來檢核設定值，並能自動回饋修正，使機械運轉最佳化。

Complete services for die casting technology

整體壓鑄技術之提供與服務

Manufacture
flow
製作流程



Outstanding engineering staff with comprehensive practical experience in production with theoretical background. By simply provide us with your casting samples or blueprints and the expected production target, our engineers will make detailed analysis to help you selecting the correct machines as well as the ancillary equipment. What's more, we also offer complete technology services from die design and manufacturing, production, second process machining and treatment, planning for whole plant equipment, to technical personnel training.....etc.

鋁台公司傑出之工程能力，對一貫化壓鑄生產線有豐富的實務歷練與理論基礎。客戶只需提供壓鑄樣品或藍圖及預定之生產目標，鋁台工程部門即依據您的需求，徹底分析，為您做確切的機器及相關設備之建議。以及整體技術服務，從模具的設計製造，樣品確認，後續加工及處理技術提供，整廠設備規劃，及技術人員之訓練...等。

Thin wall casting

鋁合金超薄鑄件



Description / 品名 PDA Casting / PDA 構件
Thickness / 厚度 0.8~1.0 (mm)
Dimensions / 尺寸 75 x 122 (mm)



Description / 品名 NB upper cover / NB 上蓋
Thickness / 厚度 0.6 (mm)
Dimensions / 尺寸 200 x 255 (mm)



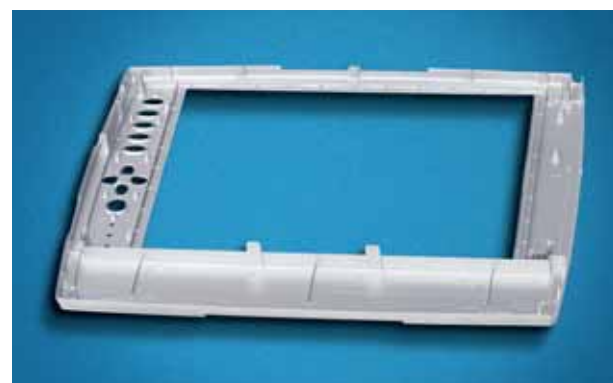
Description / 品名 Electronic component / 電子產品構件
Thickness / 厚度 0.8 (mm)
Dimensions / 尺寸 78 x 145 (mm)



Description / 品名 NB upper cover / NB 上蓋
Thickness / 厚度 0.85 (mm)
Dimensions / 尺寸 250 x 315 (mm)



Description / 品名 Mobile phone cover / 手機構件
Thickness / 厚度 0.8~1.2 (mm)



Description / 品名 Computer frame / 工業電腦構件
Thickness / 厚度 1.0~1.2 (mm)
Dimensions / 尺寸 230 x 290 (mm)

General casting

鋁合金一般鑄件



ZDC 100TPS

Features

Locking force: 100 Ton
Die height: 120~420 mm
Tie bar distance: 382 x 382 mm
Max. weight of shot: 1.0 kgf
Max. casting area: 148 cm²
Horsepower required: 12 KVA

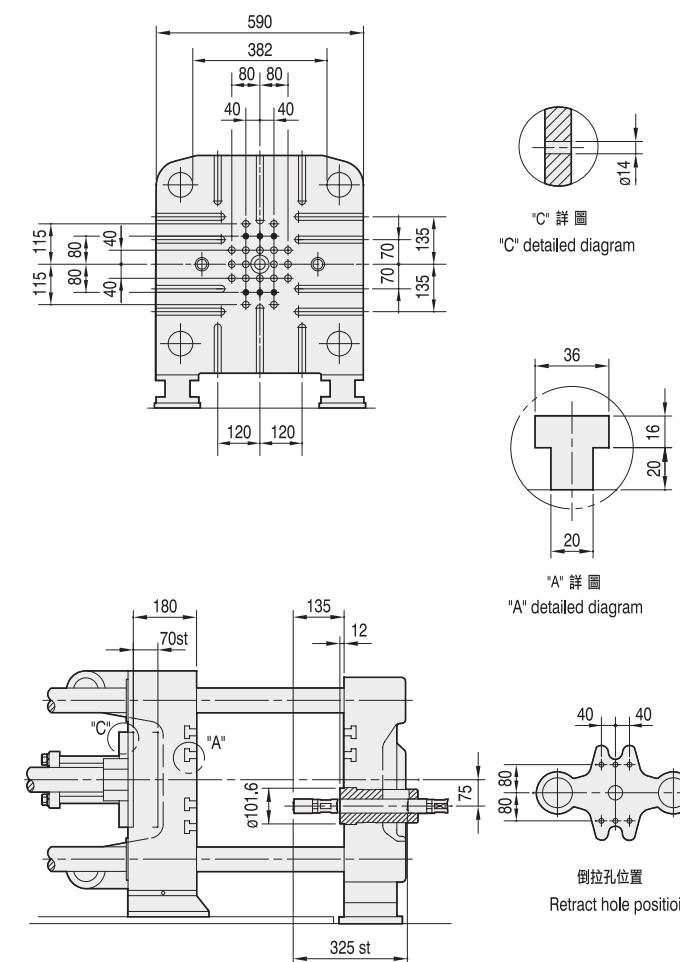
鎖模力: 100 Ton
夾模厚度: 120~420 mm
柱內尺寸: 382 x 382 mm
最大實射出重量: 1.0 kgf
最大鑄造面積: 148 cm²
所需馬力: 12 KVA



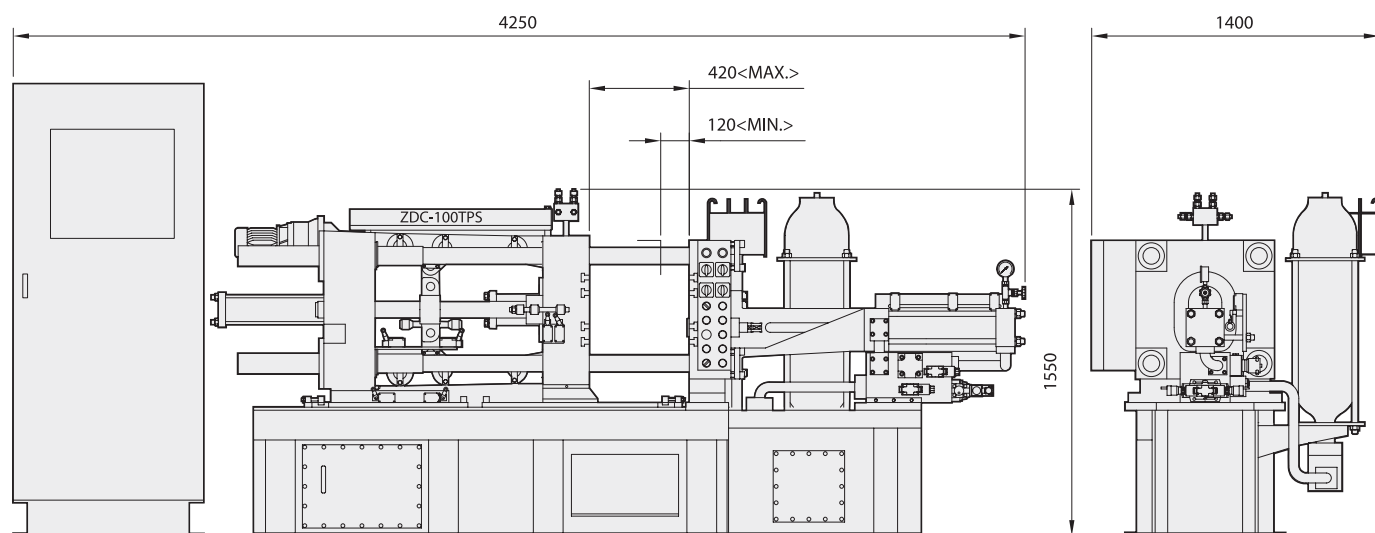
Die fitting diagram / 模面關係尺寸

○ 押出孔 ø21x18孔
Eject hole ø21x18 bore

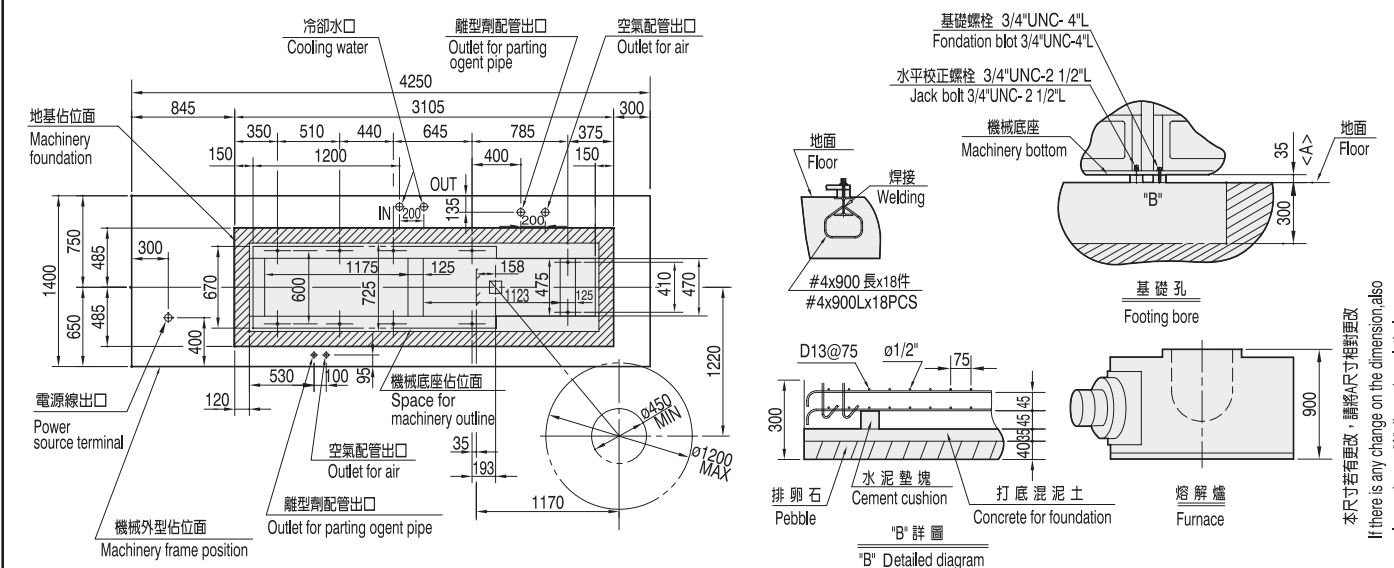
● 倒拉孔 ø21x6孔
Retract hole ø21x6 bore



Machine dimension / 機械外型尺寸



Foundation work diagram / 機台地基尺寸



ZDC 180TPS

Features

Locking force: 180 Ton
Die height: 200~550 mm
Tie bar distance: 480 x 480 mm
Max. weight of shot: 1.61 kgf
Max. casting area: 308 cm²
Horsepower required: 18 KVA

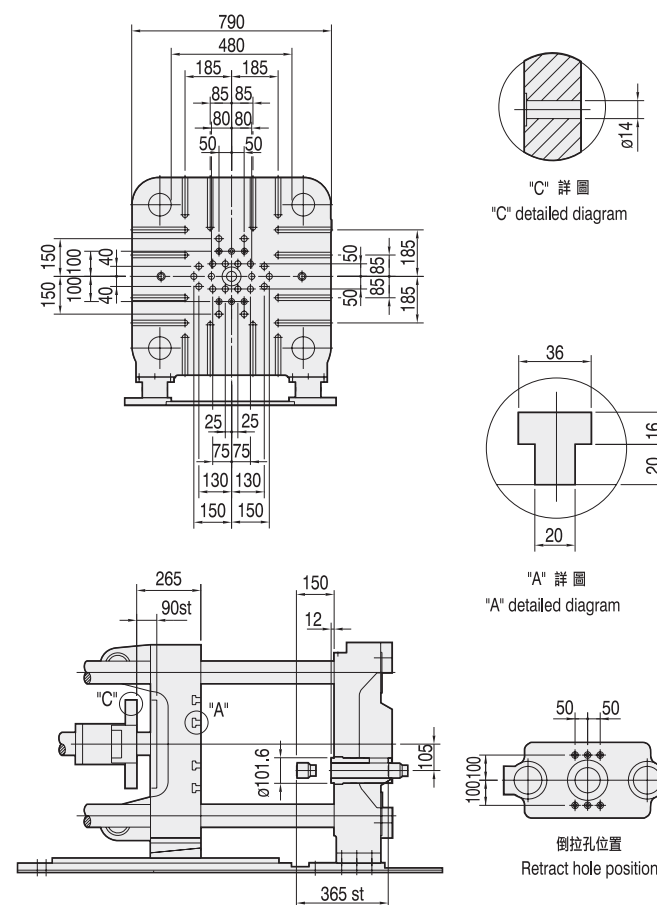
鎖模力: 180 Ton
夾模厚度: 200~550 mm
柱內尺寸: 480 x 480 mm
最大實射出重量: 1.61 kgf
最大鑄造面積: 308 cm²
所需馬力: 18 KVA



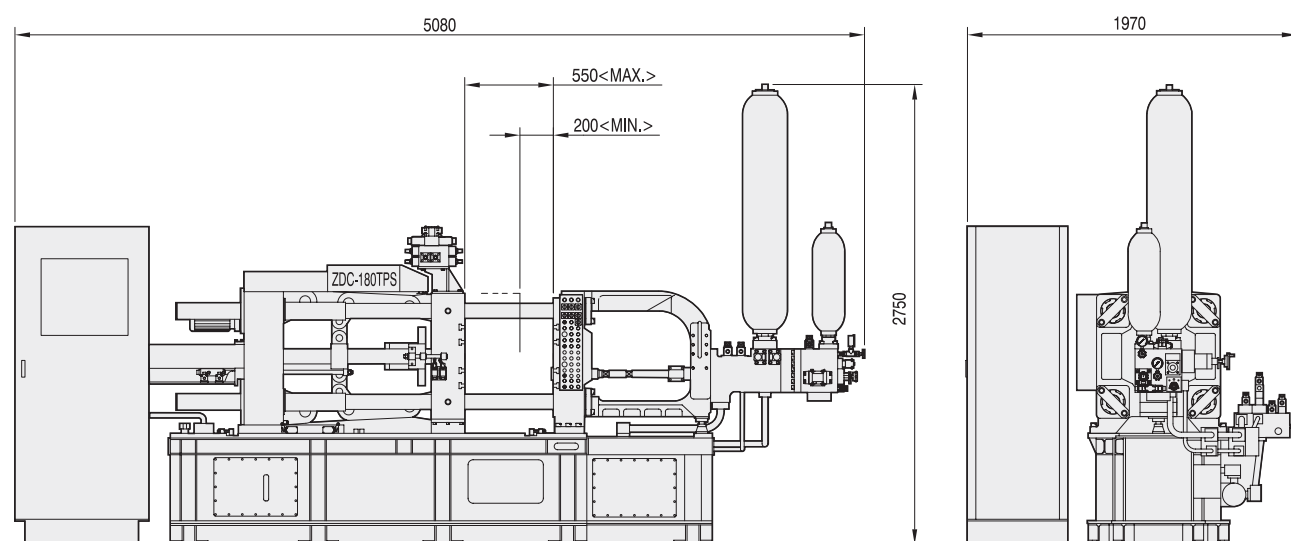
Die fitting diagram / 模面關係尺寸

○ 押出孔 ø24x20 孔
Eject hole ø24x20 bore

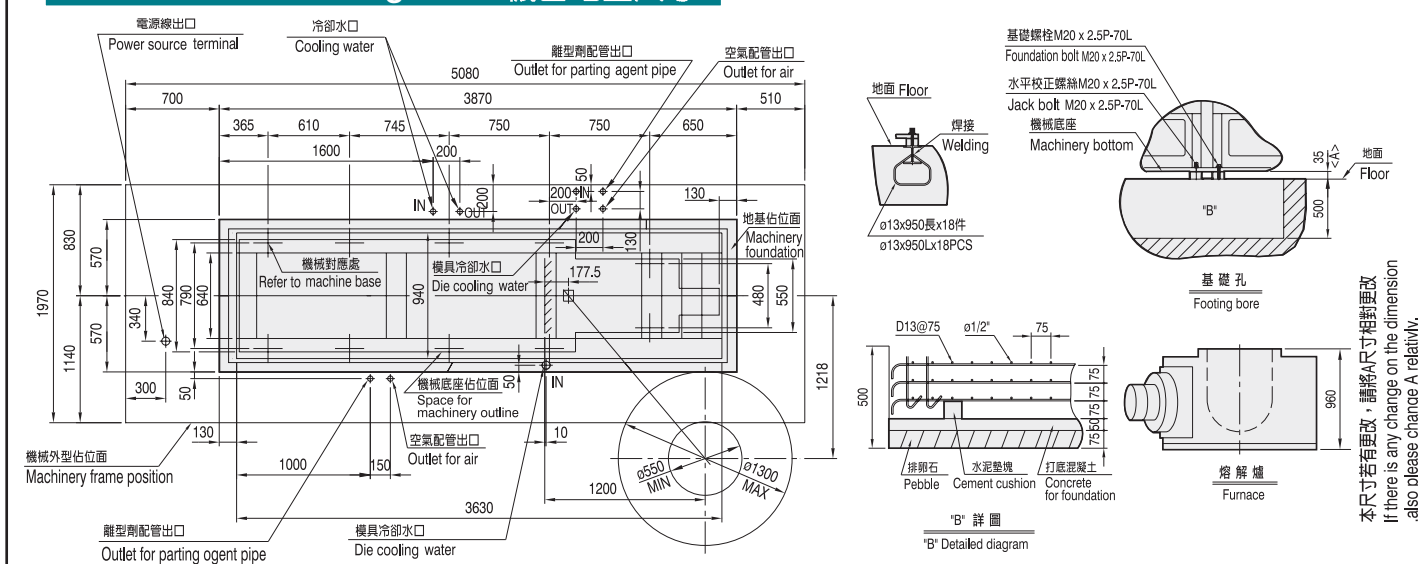
● 倒拉孔 ø24x6 孔
Retract hole ø24x6 bore



Machine dimension / 機械外型尺寸



Foundation work diagram / 機台地基尺寸



Features

Locking force: 250 Ton
Die height: 250~650 mm
Tie bar distance: 580 x 580 mm
Max. weight of shot: 2.55 kgf
Max. casting area: 406 cm²
Horsepower required: 30 KVA

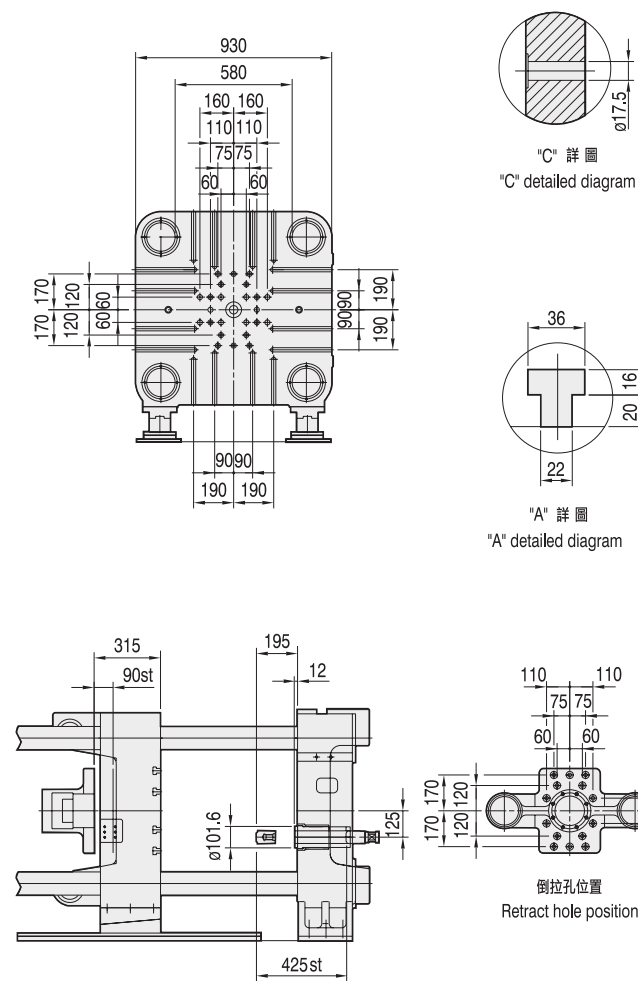
鎖模力: 250 Ton
夾模厚度: 250~650 mm
柱內尺寸: 580 x 580 mm
最大實射出重量: 2.55 kgf
最大鑄造面積: 406 cm²
所需馬力: 30 KVA



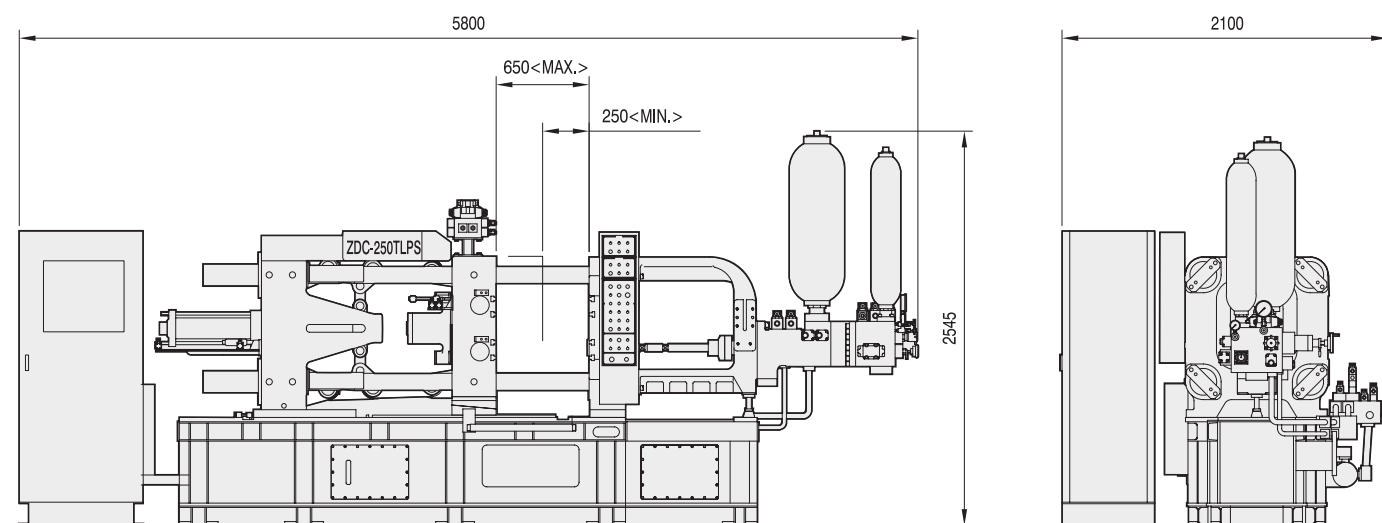
Die fitting diagram / 模面關係尺寸

○ 押出孔 ø22x10 孔
Eject hole ø22x10 bore

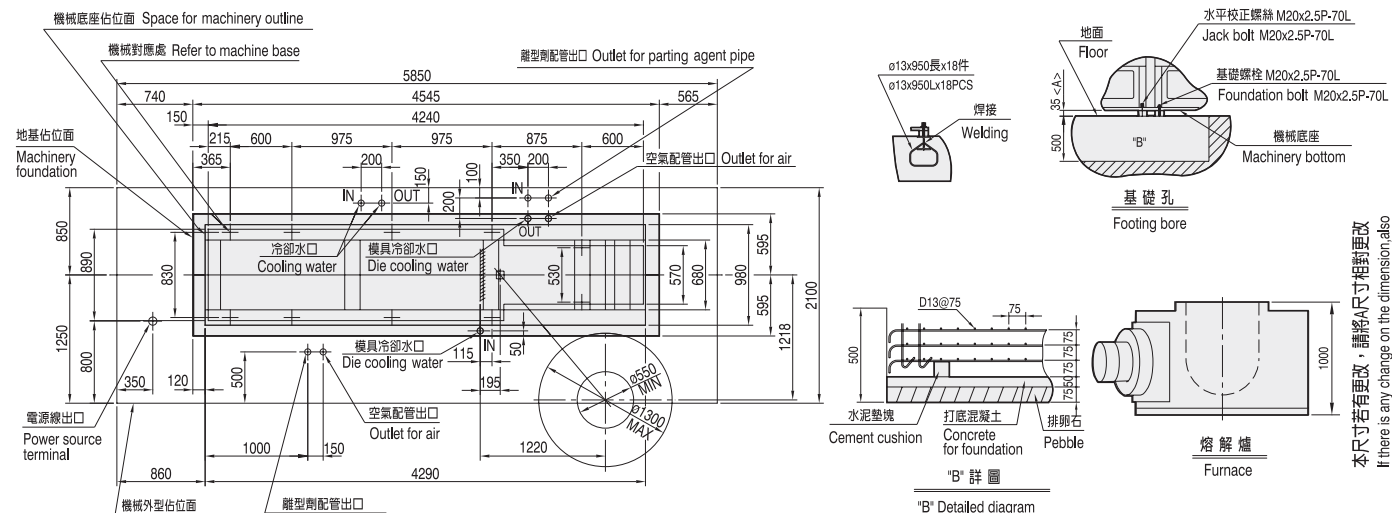
● 倒拉孔 ø22x14 孔
Retract hole ø22x14 bore



Machine dimension / 機械外型尺寸



Foundation work diagram / 機台地基尺寸



本尺寸若有更改，請將A尺寸相對更改
If there is any change on the dimension, also
please change "A" dimension relatively.

ZDC 420TPS

Features

Locking force: 420 Ton
Die height: 300~700 mm
Tie bar distance: 650 x 650 mm
Max. weight of shot: 4.0 kgf
Max. casting area: 760 cm²
Horsepower required: 40 KVA

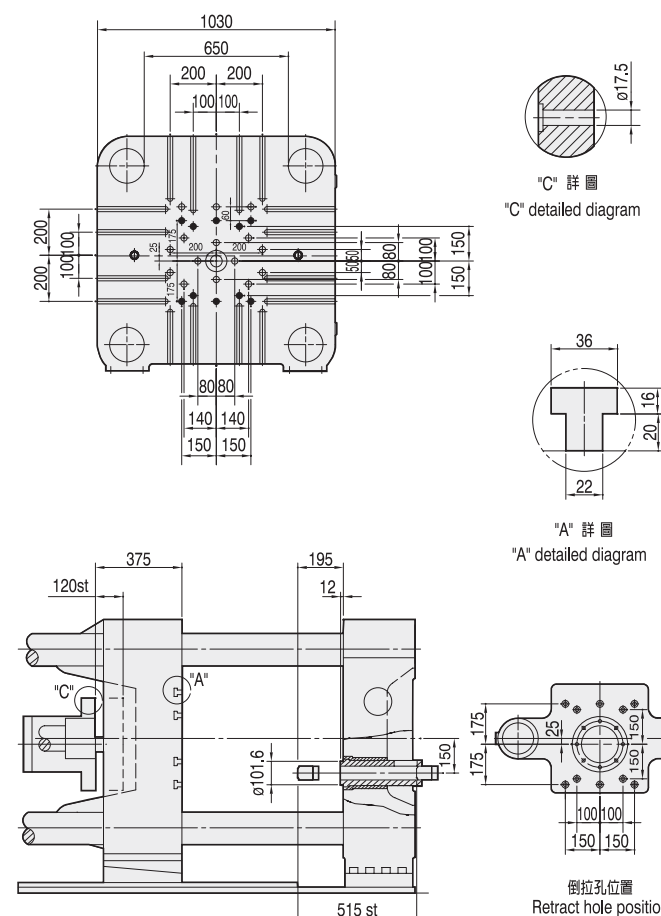
鎖模力：420 Ton
夾模厚度：300~700 mm
柱內尺寸：650 x 650 mm
最大實射出重量：4.0 kgf
最大鑄造面積：760 cm²
所需馬力：40 KVA



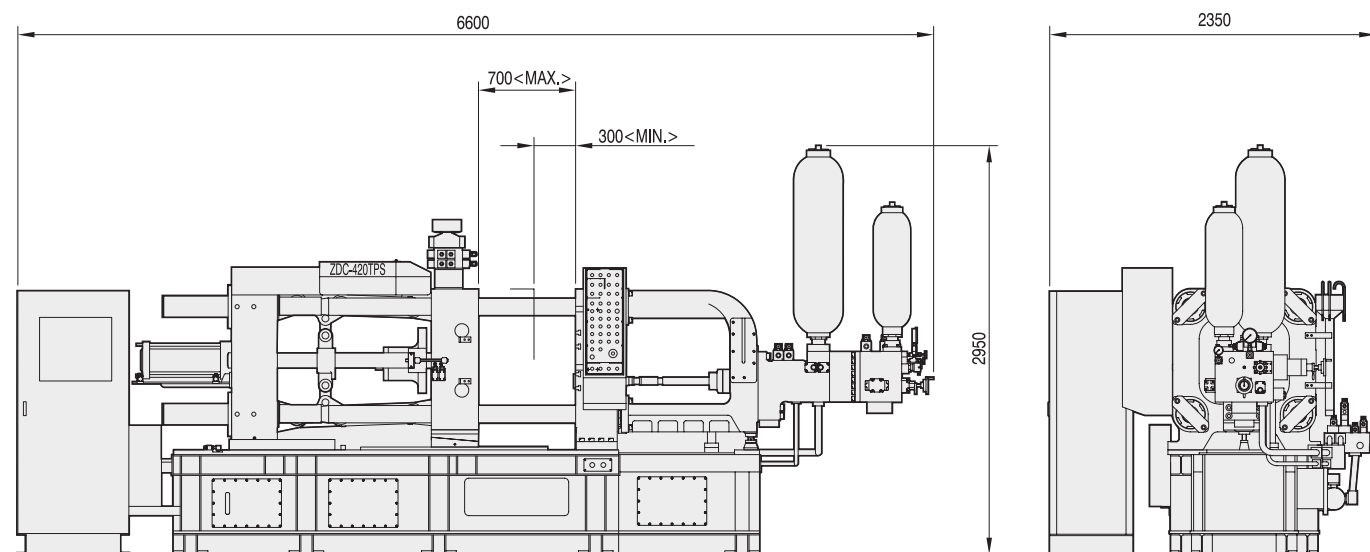
Die fitting diagram / 模面關係尺寸

○ 押出孔 ø27x15孔
Eject hole ø27x15 bore

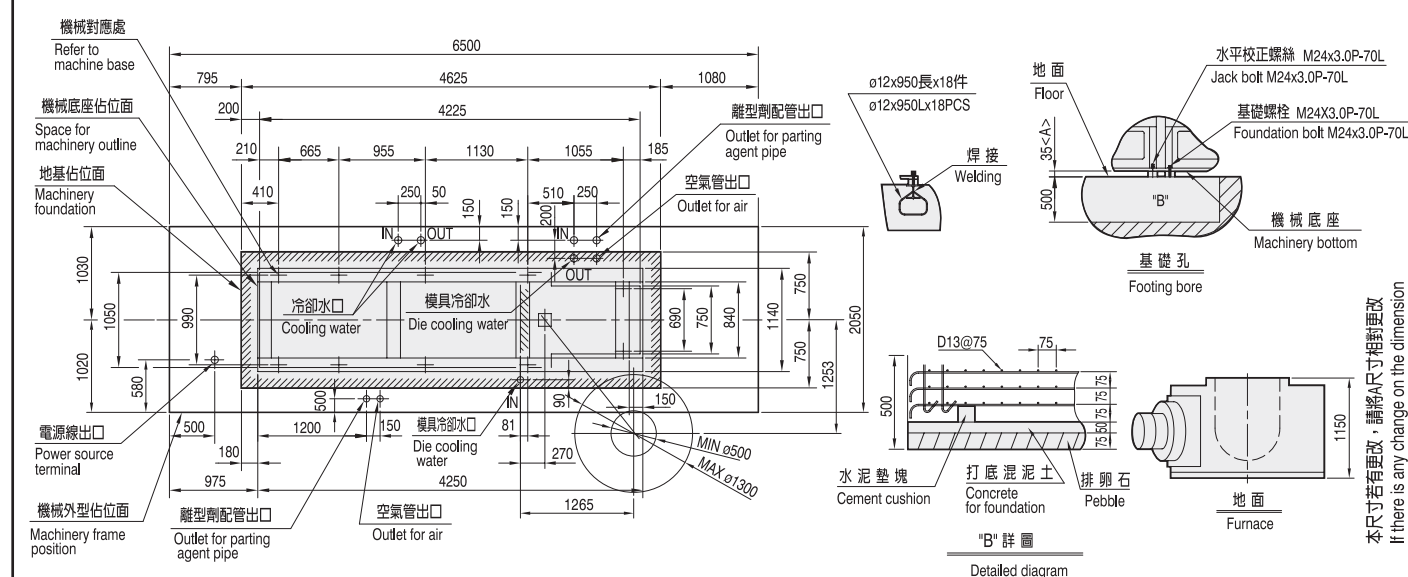
● 倒拉孔 ø27x10孔
Retract hole ø27x10 bore



Machine dimension / 機械外型尺寸



Foundation work diagram / 機台地基尺寸



本尺寸若有更改，請將A尺寸相對更改
If there is any change on the dimension
also please change A relatively.

ZDC 560TPS

Features

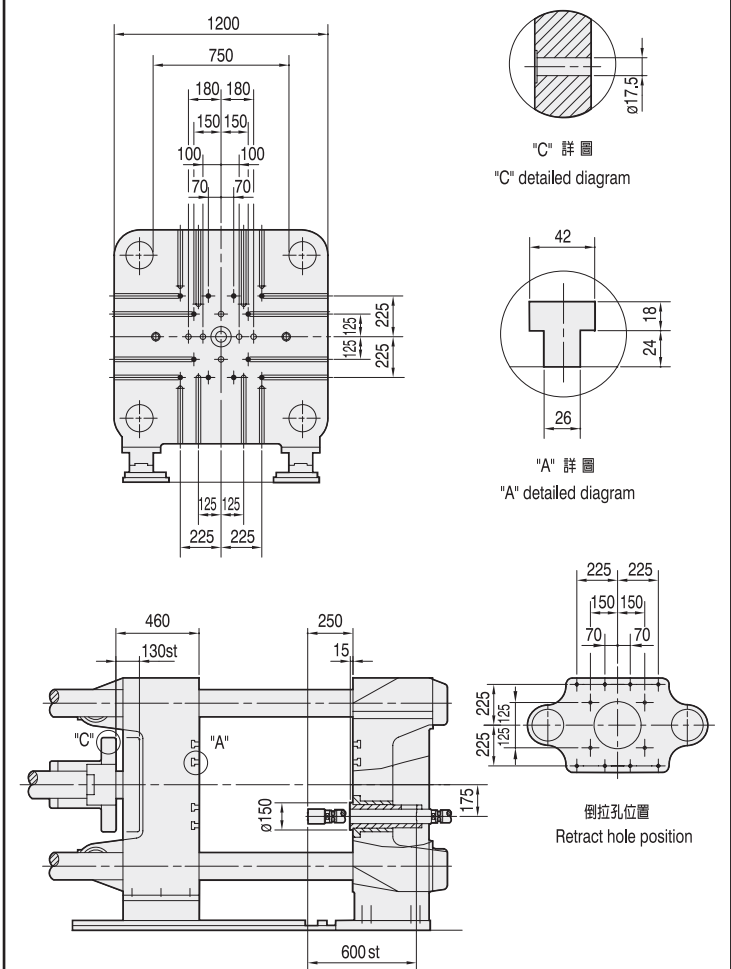
Locking force: 560 Ton
Die height: 350~850 mm
Tie bar distance: 750 x 750 mm
Max. weight of shot: 6.0 kgf
Max. casting area: 844 cm²
Horsepower required: 62 KVA

鎖模力：560 Ton
夾模厚度：350~850 mm
柱內尺寸：750 x 750 mm
最大實射出重量：6.0 kgf
最大鑄造面積：844 cm²
所需馬力：62 KVA

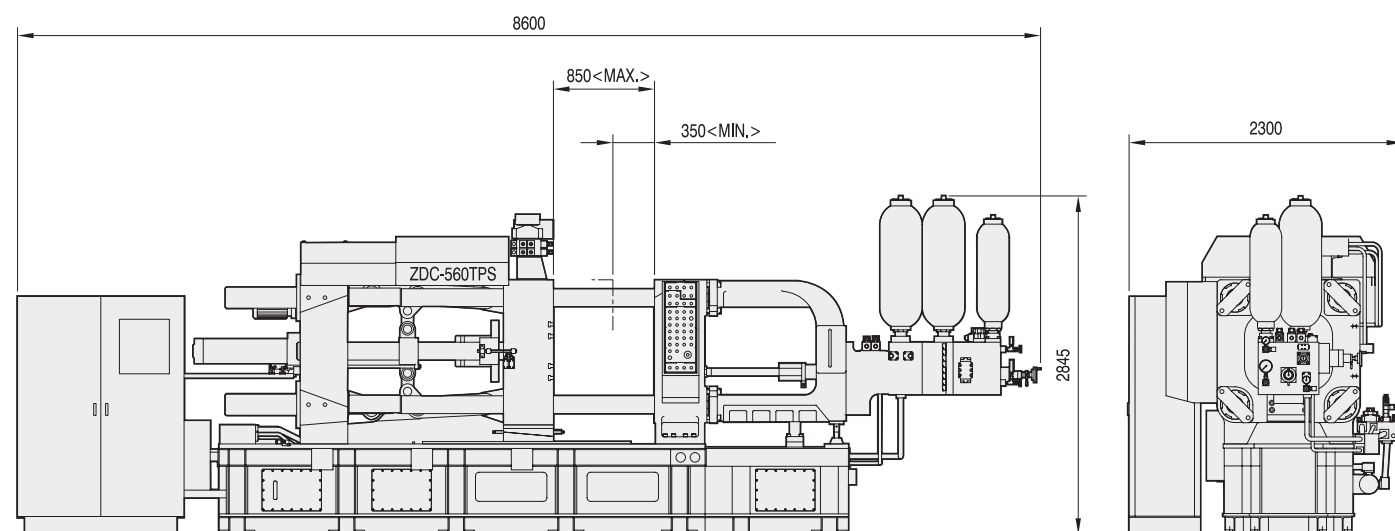


Die fitting diagram / 模面關係尺寸

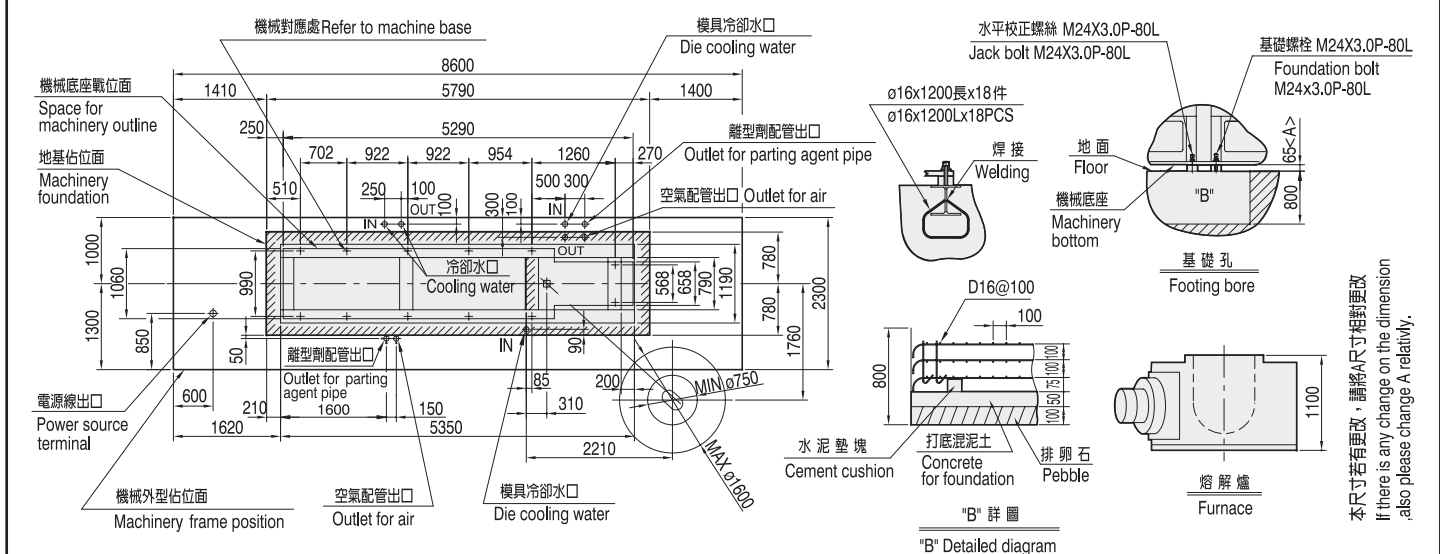
- 押出孔 $\phi 32 \times 6$ 孔
Eject hole $\phi 32 \times 6$ bore
- 倒拉孔 $\phi 32 \times 12$ 孔
Retract hole $\phi 32 \times 12$ bore



Machine dimension / 機械外型尺寸



Foundation work diagram / 機台地基尺寸

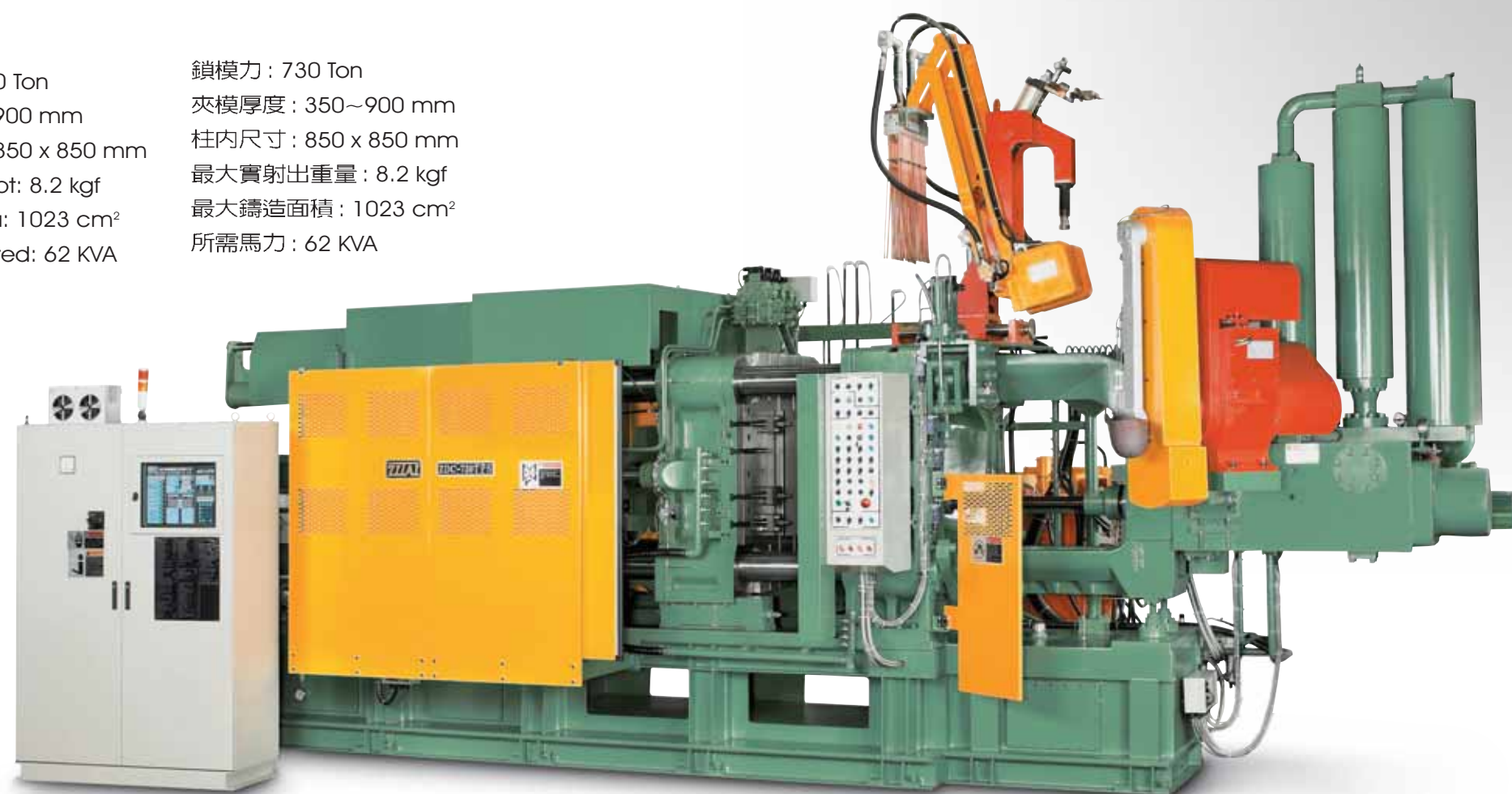


ZDC 730TPS

Features

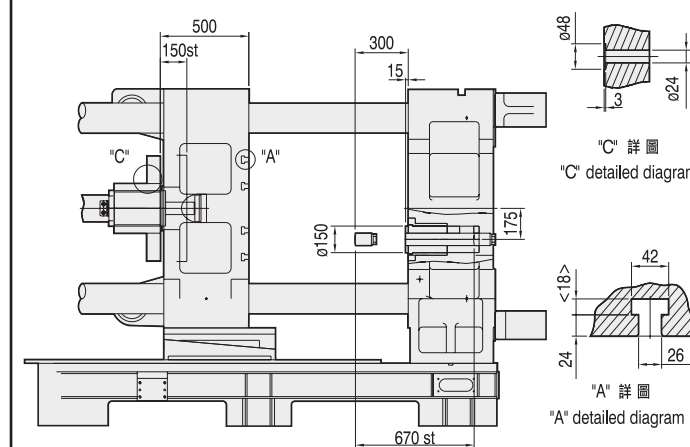
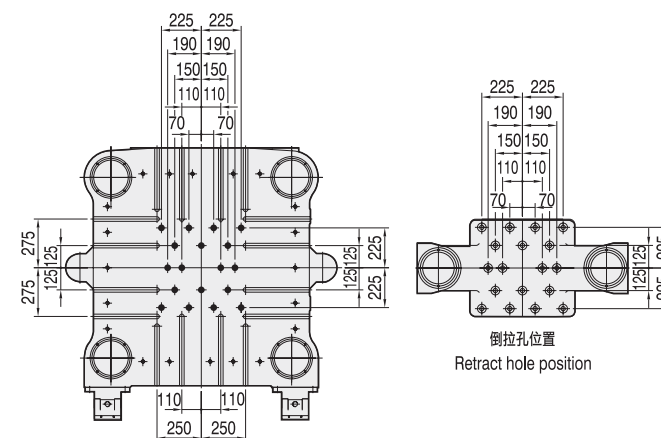
Locking force: 730 Ton
Die height: 350~900 mm
Tie bar distance: 850 x 850 mm
Max. weight of shot: 8.2 kgf
Max. casting area: 1023 cm²
Horsepower required: 62 KVA

鎖模力：730 Ton
夾模厚度：350~900 mm
柱內尺寸：850 x 850 mm
最大實射出重量：8.2 kgf
最大鑄造面積：1023 cm²
所需馬力：62 KVA

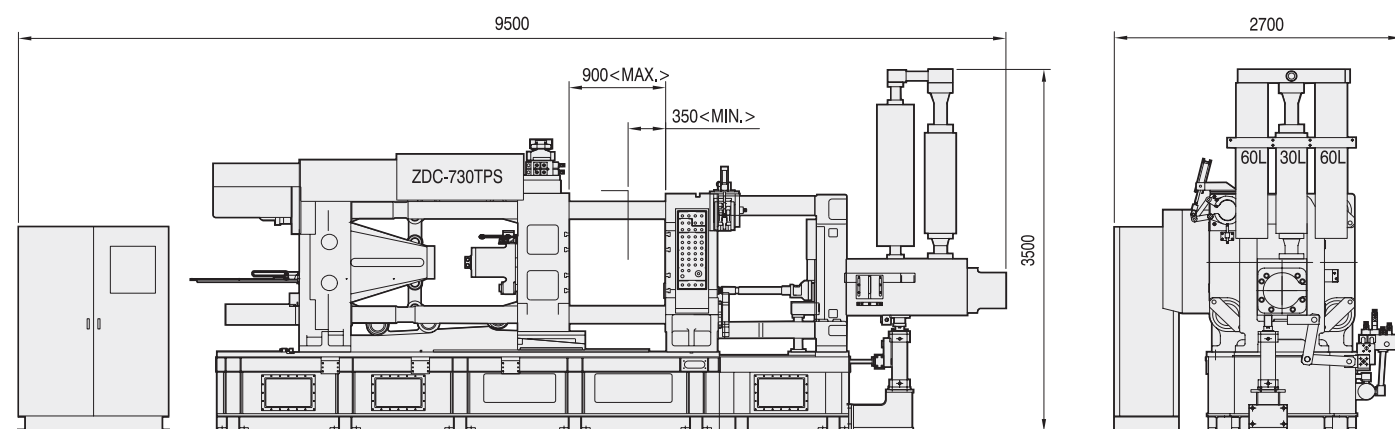


Die fitting diagram / 模面關係尺寸

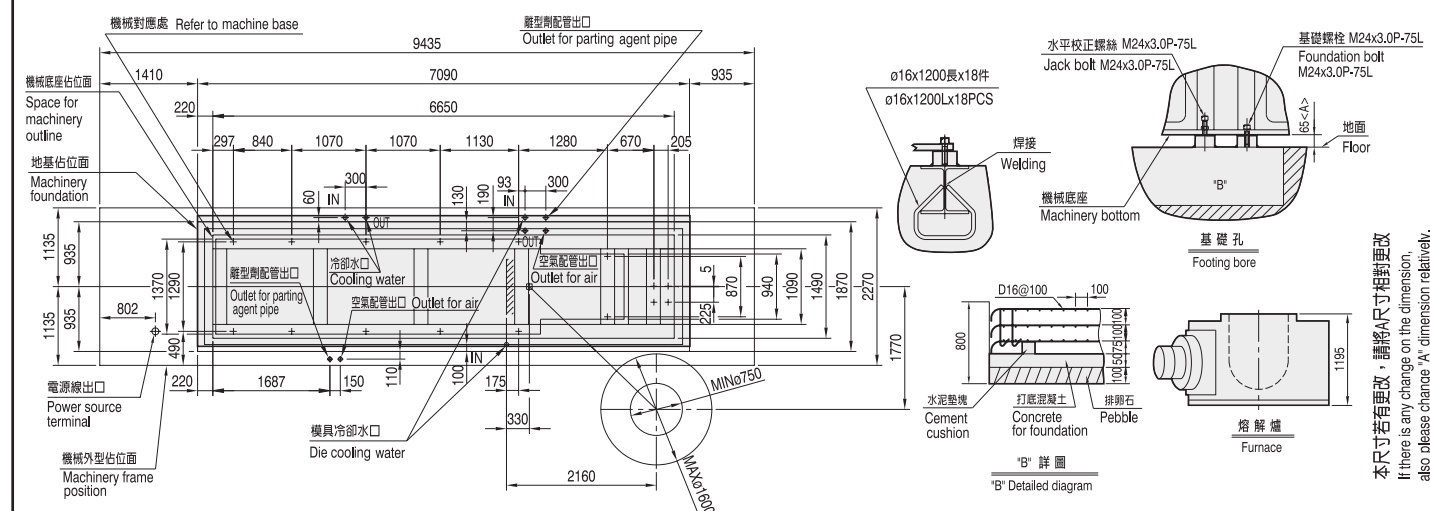
○ $\phi 30 \times 18$ 孔<用於押出孔或倒拉孔>
 $\phi 30 \times 18$ bore<For eject hole or Retract hole>



Machine dimension / 機械外型尺寸



Foundation work diagram / 機台地基尺寸



本尺寸若有更改，請將A尺寸相對更改
If there is any change on the dimension,
also please change "A" dimension relatively.

ZDC 900TPS

Features

Locking force: 900 Ton

Die height: 400~950 mm

Tie bar distance: 930 x 930 mm

Max. weight of shot: 9.2 kgf

Max. casting area: 936 cm²

Horsepower required: 70 KVA

鎖模力：900 Ton

夾模厚度：400~950 mm

柱內尺寸：930 x 930 mm

最大實射出重量：9.2 kgf

最大鑄造面積：936 cm²

所需馬力：70 KVA

Locking force: 900 Ton
Die height: 400~950 mm
Tie bar distance: 930 x 930 mm
Max. weight of shot: 9.2 kgf
Max. casting area: 936 cm²
Horsepower required: 70 KVA

鎖模力：900 Ton
夾模厚度：400~950 mm
柱內尺寸：930 x 930 mm
最大實射出重量：9.2 kgf
最大鑄造面積：936 cm²
所需馬力：70 KVA

○ $\phi 38 \times 30$ 孔 < 用於伸出孔或倒拉孔 >
 $\phi 38 \times 30$ bore < For eject hole or Retract hole >

The drawing shows a mechanical component with the following dimensions and features:

- Top View:** Overall width 1440, inner width 930. Spacing dimensions: 240, 240, 120, 120, 60, 60. Mounting hole diameter $\phi 29$.
- Front View:** Total height 300, mounting flange height 100. Side flange height 180, base height 260. Bottom flange width 180, base width 260. Internal spacing: 100, 200, 200, 300, 300.
- Section "C" (Top Right):** Detailed diagram of the top flange showing a circular hole with diameter $\phi 29$.
- Section "A" (Bottom Right):** Detailed diagram of the base showing a T-shaped cross-section with dimensions 50, 22, 28, 30.
- Side View (Bottom):** Shows the component's profile with dimensions 780, 150st, 350, 25, 200, 250, and 750 st.
- Retract Hole Position (Bottom Right):** A detailed view of the retract hole area with dimensions 200, 200, 60, 60, 260, 260, 100, 100, 180, 180, 120, 120, 240, 240.

Technical drawing of the ZDC-900TPS machine, showing side and front views with dimensions.

Side View Dimensions:

- Overall width: 10000
- Distance from control cabinet to main body: 950 <MAX.>
- Distance from main body to gas cylinders: 400 <MIN.>
- Height of gas cylinders: 3556

Front View Dimensions:

- Overall width: 2900

Technical drawing of the furnace base showing detailed dimensions and component labels in Chinese and English.

Labels and Dimensions:

- Top Labels:**
 - 機械對應處<圓形墊片> Refer to machine base
 - 模具冷卻水口 Die cooling water
 - 離型劑配管出口 Outlet for parting agent pipe
 - 水平校正螺絲 M30x3.5P-90L
 - 基礎螺栓 M30x3.5P-90L
 - Foundation bolt M30x3.5P-90L
- Left Side Labels:**
 - 機械底座佔位面 Space for machinery outline
 - 地基佔位面 Machinery foundation
 - 電源線出口 Power source terminal
 - 離型劑配管出口 Outlet for parting agent pipe
 - 機械外型佔位面 Machinery frame position
- Right Side Labels:**
 - 空氣配管出口 Outlet for air
 - 機械對應處<方形墊片> Refer to machine base
 - 機底座 Machinery bottom
 - 基礎孔 Footing bore
 - 熔解爐 Furnace
- Bottom Labels:**
 - 空氣配管出口 Outlet for air
 - 模具冷卻水出口 Die cooling water
 - 機底座佔位面 Space for machinery outline
- Dimensions:**
 - Overall length: 10000
 - Overall width: 2850
 - Internal length segments: 1445, 310, 5150, 990, 1350
 - Internal width segments: 1220, 1010, 1630, 1010, 945, 1000
 - Other dimensions: 60, 860, 860, 860, 860, 960, 490, 1260, 300, 370, 300, 100, 300, 100, 1250, 300, 380, 1140, 1540, 2040, 2000, 235, 2400, 250, 120, 80, 345, 6685, 1680, 235
 - Minimum hole diameter: MIN $\phi 600$
 - Maximum hole diameter: MAX $\phi 1800$
- Notes:**
 - 本尺寸若有更改，請將A尺寸相對更改。 If there is any change on the dimension, also please change A relatively.

if there is any change on the dimension also please change A relatively.

ZDC 1250TPM

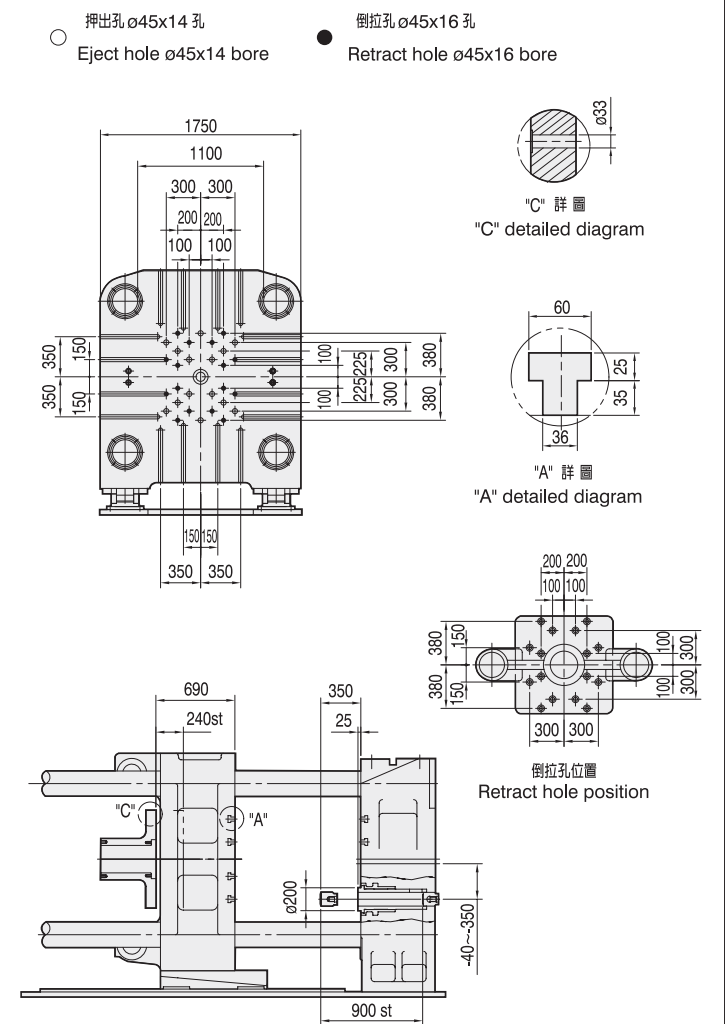
Features

Locking force: 1250 Ton
Die height: 450~1100 mm
Tie bar distance: 1100 x 1100 mm
Max. weight of shot: 21.6 kgf
Max. casting area: 1783 cm²
Horsepower required: 125 KVA

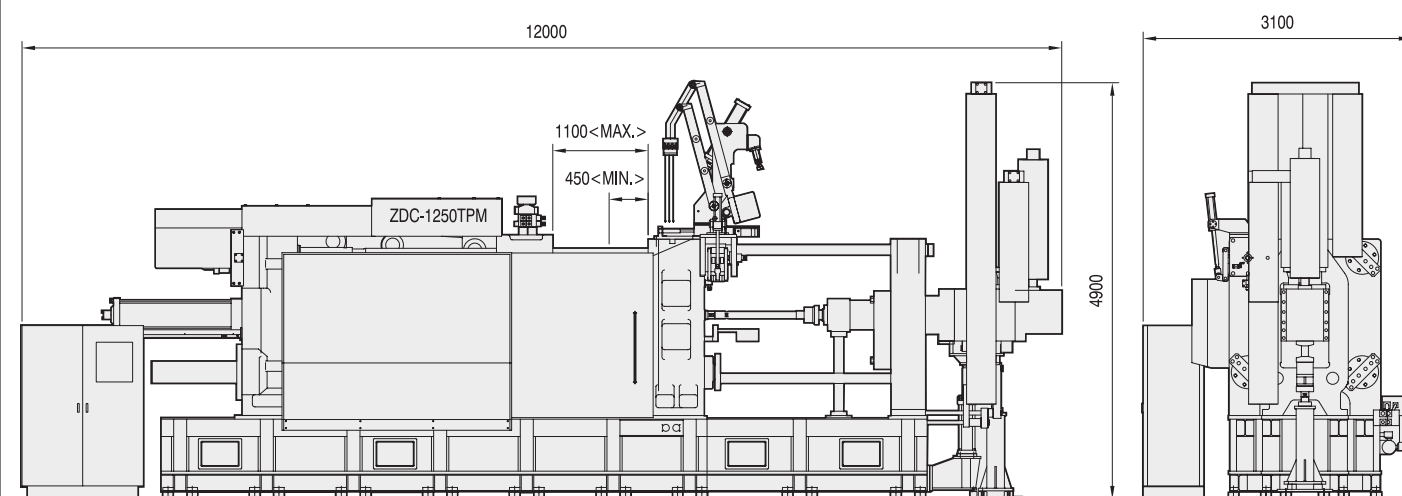
鎖模力：1250 Ton
夾模厚度：450~1100 mm
柱內尺寸：1100 x 1100 mm
最大實射出重量：21.6 kgf
最大鑄造面積：1783 cm²
所需馬力：125 KVA



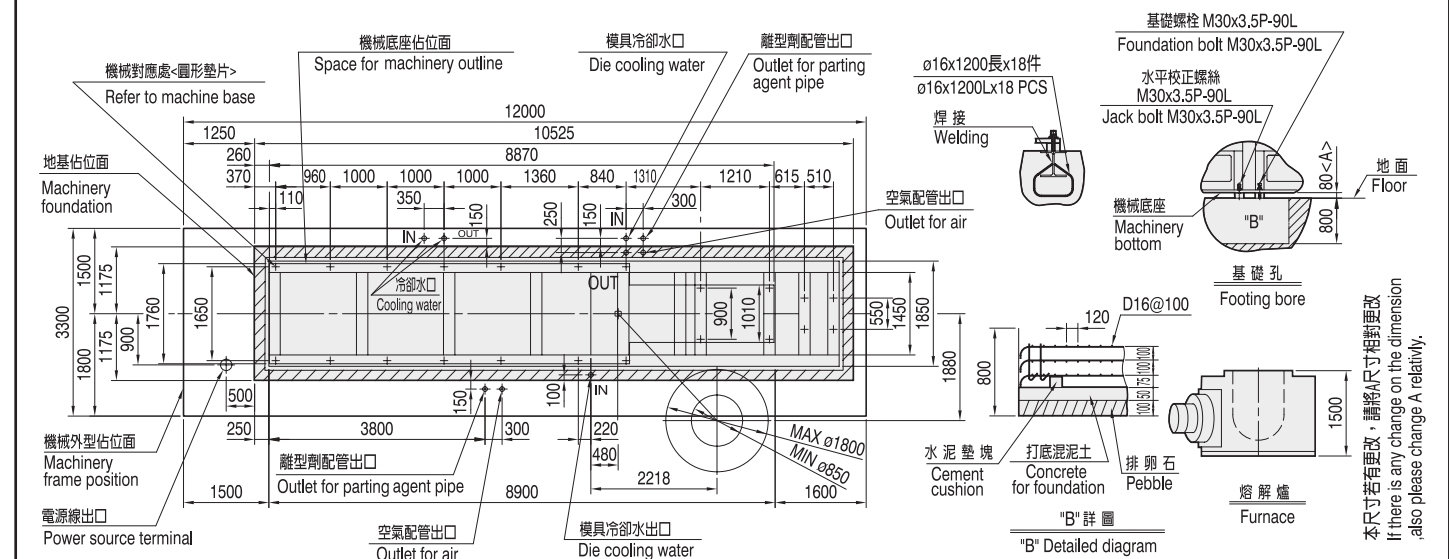
Die fitting diagram / 模面關係尺寸



Machine dimension / 機械外型尺寸



Foundation work diagram / 機台地基尺寸



ZDC-Series

Specifications

	Main Item	主要項目	單位Unit	ZDC-100TPS	ZDC-180TPS	ZDC-250TLPS	ZDC-420TPS	ZDC-560TPS	ZDC-730TPS	ZDC-900TPS	ZDC-1250TPM
鎖模部份 Locking unit	Locking force	鎖模力	ton	100	180	250	420	560	730	900	1250
	Die platen dimension	模板外型	mm	580x580	780x780	930x930	1000x1000	1200x1200	1350x1350	1440x1440	1750x1750
	Tie bar distance	柱內尺寸	mm	382x382	480x480	580x580	650x650	750x750	850x850	930x930	1100x1100
	Die height distance	夾模厚度	mm	120~420	200~550	250~650	300~700	350~850	350~900	400~950	450~1100
	Die stroke	開模行程	mm	240	340	400	500	550	700	760	1000
	Tie bar diameter	導柱直徑	mm	ø70	ø90	ø110	ø125	ø150	ø170	ø190	ø220
	Die adjustment speed	調模速度	mm/min	159(50HZ) 192(60HZ)	109(50HZ) 132(60HZ)	122(50HZ) 148(60HZ)	158(50HZ) 191(60HZ)	107(50HZ) 130(60HZ)	123(50HZ) 148(60HZ)	107(50HZ) 129(60HZ)	73(50HZ) 88(60HZ)
押出部份 Ejecting unit	Ejecting force	押出力	ton	6.6	10.5	18.5	23.5	26.7	31	36	50
	Ejecting stroke	押出行程	mm	70	90	90	120	130	150	150	240
中子部份 Core unit	Electromagnetic valve	中子電磁閥	PT	1/2" x 1 (set)	1/2" x 1 (set)	1/2" x 1 (set)	3/4" x 2 (sets)	3/4" x 2 (sets)	3/4" x 2 (sets)	3/4" x 2 (sets)	3/4" x 3 (sets)
	Oil outlet	出油口	PT	1/2" x 2 (sets)	1/2" x 2 (sets)	1/2" x 2 (sets)	3/4" x 4 (sets)	3/4" x 4 (sets)	3/4" x 4 (sets)	3/4" x 4 (sets)	3/4" x 6 (sets)
電器部份 Electric system	Motor capacity voltage	電動機容量電壓	KW	幫浦用(Pump)7.5 調模用(Die adj)0.375	幫浦用(Pump)11.25 調模用(Die adj)0.375	幫浦用(Pump)18.75 調模用(Die adj)0.75	幫浦用(Pump)22.5 調模用(Die adj)0.75	幫浦用(Pump)37.5 調模用(Die adj)2.25	幫浦用(Pump)37.5 調模用(Die adj)2.25	幫浦用(Pump)45 調模用(Die adj)3.75	幫浦用(Pump)56.25 調模用(Die adj)5.625
	Power source	電源	V	AC200/220(50/60HZ)	AC200/220(50/60HZ)	AC200/220(50/60HZ)	AC200/220(50/60HZ)	AC200/220(50/60HZ)	AC200/220(50/60HZ)	AC200/220(50/60HZ)	AC200/220(50/60HZ)
	Capacity of power source	電源容量	KVA	12	18	30	40	62	62	70	125
射出部份 Shot unit	Shot force	射出力	ton	13.3	16.5	23.7	27.8	42.2	56	75.5	108
	Max. shot speed(*)	最高射速 (★)	M/sec	5.0	4.5(★6.0)	4.5(★6.0)	4.5(★8.0)	4.5(★8.0)	6.0(★8.0)	6.0(★8.0)	8.0
	Plunger stroke	射出桿行程	mm	325	365	425	515	600	670	750	900
	Plunger tip penetration	射出桿凸出長	mm	135	150	195	195	250	300	350	350
	Plunger tip diameter	柱塞直徑	mm	最小 Min ø40標準 Med ø45最大 Max ø50	最小 Min ø45標準 Med ø50最大 Max ø60	最小 Min ø50標準 Med ø60最大 Max ø70	最小 Min ø60標準 Med ø70最大 Max ø80	最小 Min ø70標準 Med ø80最大 Max ø90	最小 Min ø70標準 Med ø80最大 Max ø100	最小 Min ø80標準 Med ø90最大 Max ø100	最小 Min ø100標準 Med ø120最大 Max ø140
	Shot pressure	射出單位壓力	Kgf/cm²	1058 836 677	1038 840 584	1207 838 616	983 722 553	1096 840 663	1455 1114 880 713	1502 1187 961	1375 955 701
	Casting area	鑄造面積	cm²	95 120 148	174 214 308	207 298 406	427 581 760	510 667 844	501 655 829 1023	599 758 936	910 1310 1783
	Net shot weight	實射出重量	Kgf	0.64 0.81 1.0	0.91 1.12 1.61	1.30 1.87 2.55	2.27 3.1 4.0	3.6 4.7 6.0	4.0 5.3 6.7 8.2	5.9 7.4 9.2	11.0 16.0 21.6
冷卻水部份 Cooling water system	Cooling water inlet pipe diameter	冷卻水出入口	PT	1"	1"	1"	1"	1-1/4"	1-1/4"	1-1/4"	2"
	Die cooling water outlet pipe diameter (in & out)	模具用冷卻水 (入口，出口)	PT	1"x1 入口(inlet) 2"x1 出口(outlet)	1"x1 入口(inlet) 2"x1 出口(outlet)	1"x1 入口(inlet) 2"x1 出口(outlet)	1"x1 入口(inlet) 2"x1 出口(outlet)	1-1/4"x1 入口(inlet) 2-1/2"x1 出口(outlet)	1-1/4"x1 入口(inlet) 2-1/2"x1 出口(outlet)	1-1/4"x1 入口(inlet) 2-1/2"x1 出口(outlet)	1-1/4"x1 入口(inlet) 2-1/2"x1 出口(outlet)
	Number of dia cooling water adjusting valve cooling water	模具冷卻水 水閥門數	PC	7 入口(inlet) 8 出口(outlet)	7 入口(inlet) 8 出口(outlet)	7 入口(inlet) 8 出口(outlet)	7 入口(inlet) 8 出口(outlet)	10 入口(inlet) 10 出口(outlet)	10 入口(inlet) 10 出口(outlet)	10 入口(inlet) 10 出口(outlet)	10 入口(inlet) 10 出口(outlet)
	Die cooling water	模具冷卻水量	ltr/min	15~30	25~45	30~70	30~70	50~90	70~120	100~150	100~150
	Die & ejecting pressure	開關模：押出壓力	Kgf/cm²	100 ; 100	120 ; 160	120 ; 160	120 ; 160	120 ; 160	120 ; 160	120 ; 160	120 ; 160
油壓部份 Hydraulic system	Max. intensified pressure of injection	最高射出增壓壓力	Kgf/cm²	210	210	210	210	210	310	330	330
	Cycling oil volume	循環作動油量	ltr	240	350	450	450	700	920	1000	1300
	Cooling water	冷卻水量	ltr/min	30(水量25℃) (water temp 25℃)	30(水量25℃) (water temp 25℃)	45~50(水量25℃) (water temp 25℃)	45~50(水量25℃) (water temp 25℃)	70~80(水量25℃) (water temp 25℃)	70~80(水量25℃) (water temp 25℃)	100(水量25℃) (water temp 25℃)	150(水量25℃) (water temp 25℃)
	Machine size (BxWxH)	機械外型尺寸(BxWxH)	mm	4250 x 1400 x 1550	5000 x 2000 x 2900	5900 x 2100 x 2545	6600 x 2350 x 2950	8600 x 2300 x 2845	9500 x 2700 x 3500	10000 x 2900 x 3556	12000 x 3100 x 4900
機械關係 Machine measurement	Machine weight	機械重量	ton	3.3	7	11	16	26	32	50	80

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■ (★) 為HV系列，超高速射出系統之射速。
■ (★) HV series : high shot speed machine

ZLB

Series

Auto ladler 自動給湯機

Applicable die casting machine:

適用機種：
560Ton, 730Ton, 900Ton.



Applicable die casting machine:
適用機種：100Ton, 180Ton, 250Ton, 420Ton.



AUTO LADLER

自動給湯機

MODEL	型 式	ZLB-35C	ZLB-80B
Applicable die casting machine	壓鑄機適用機型	100T, 180T, 250T, 420T	560T, 730T, 900T
Overall dimension	機械外型尺寸	1020x550x950 mm	1450x1285x785 mm
Control box dimension	控制箱尺寸	150x300x1210 mm	150x300x1210 mm
Power source	動力供給	AC 220 (50/60HZ)	AC 220 (50/60HZ)
Ladle arm driving motor	湯臂動力馬達	0.4Kw (AC變頻馬達) (AC Inverter motor)	1.5Kw (AC變頻馬達) (AC Inverter motor)
Ladle driving motor	料勺動力馬達	0.2Kw (AC變頻馬達) (AC Inverter motor)	0.75Kw (AC變頻馬達) (AC Inverter motor)
Motor speed controller	馬達速度控制	變頻器控制 Inverter controller	變頻器控制 Inverter controller
Power current capacity	電源容量	1.3 KVA	3.5 KVA
Arm traverse range	手臂行程	1510 mm	2500 mm
Ladling range	取湯範圍	0.1~6 Kgf	0.8~15 Kgf
Maximum speed	最快循環速度	4 cyc/min	4 cyc/min
Cycling speed steps	循環速度段位	5段 (5 step of cycle speed)	5段 (5 step of cycle speed)

ZSP

Series

Auto sprayer 自動噴霧機

Applicable die casting machine:

適用機種：
560Ton, 730Ton, 900Ton.



Applicable die casting machine:
適用機種：100Ton, 180Ton, 250Ton, 420Ton.



AUTO SPRAYER

自動噴霧機

MODEL	型 式	ZSP-15B	ZSP-25B/35B	ZSP-80B
Applicable die casting machine	壓鑄機適用機型	100T, 180T	250T, 420T	560T, 730T, 900T
Arm descending range	手臂下降行程	805 mm	913 mm	1390 mm
Die height range	模厚調整行程	150 mm	250 mm	300 mm
Spraying pip quantity	霧化及吹氣銅管數量	28支/40支(選購) 28Pcs/ 40Pcs (op)	40支/58支(選購) 40Pcs/ 58Pcs (op)	60支/90支(選購)/75支(選購) 60Pcs/ 90Pcs (op)/ 75Pcs (op)
Arm moving time	手臂作動時間 (可調 adjustable)	下降 descend: Max. 1.0 sec 上昇 ascend: Max. 1.0 sec		下降 descend: Max. 2.5 sec 上昇 ascend: Max. 3.5 sec
Power source	動力源	壓縮空氣5~7 Kgf/cm ² Compressed air		
Air consumption	空氣消耗量	1400 NL/min (相當於15HP空氣壓縮機) An equivalent to 15HP compressor		2200 NL/min (相當於22HP空氣壓縮機) An equivalent to 22HP compressor
Release agent pressure	離型劑壓力	3~4 Kgf/cm ²		
Operation mode	作動模式	3段(可單獨選擇) 3step (single step operation available)		
Moisturization mode	霧化模式	4段(可單獨設定作動模式) 4step (single step setting available)		
Compressed air plug	壓縮空氣接口	PT 3/4"		PT 1-1/2"
Release agent plug	離型劑接口	PT 3/4"		

ZPU

Series

Auto extractor 自動取出機

Applicable die casting machine:
適用機種：560Ton, 730Ton, 900Ton.



Applicable die casting machine:
適用機種：100Ton, 180Ton, 250Ton, 420Ton.



AUTO EXTRACTOR

自動取出機

MODEL	型 式	ZPU-15C	ZPU-35C	ZPU-80C
Applicable die casting machine	壓鑄機適用機型	100T, 180T	250T, 420T	560T, 730T, 900T
Die height range & parallel movement	模厚與橫移調整行程	0~300 mm	0~300 mm	0~500 mm
Clamping force	夾握力	50 Kgf	50 Kgf	150 Kgf
Clamping range	夾取直徑	ø40~ø65 mm	ø50~ø80 mm	ø70~ø100 mm
Chuck swivel	夾頭迴轉角度	±90°	±90°	±90°
Product detection	成品檢出方式	限動開關 x 2只	Limit switch x 2Pcs	限動開關 x 4只 Limit switch x 4Pcs
Cycling time	循環時間	4 sec/cyc	6 sec/cyc	15 sec/cyc
Air consumption	空氣消耗量	5 NL/cyc	9 NL/cyc	2 NL/cyc
Arm traverse range	手臂位移行程	1040 mm	1195 mm(250T), 1280 mm(420T)	2120 mm

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