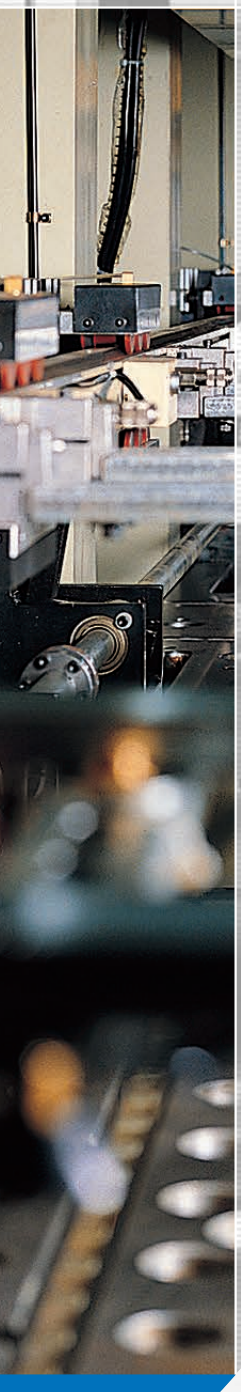
CHIN FONG

Company Profile of

CHIN FONG MACHINE INDUSTRIAL CO., LTD.



A Leading Provider of Advanced Press Technology

Company Philosophy **INNOVATION · SERVICE · COMMITENT**

COMPANY BRIEFING

Company Name	**: Chin Fong Machine Industrial Co., Ltd.**
Established	: February 1948
Registered Capital	: USD$ 61.29million(Oct. 2023)
Land Area	: 108,699m²
Factory Area	: 46,855m²
Number of Employee	: 400(Oct. 2023)
Business Scope	: Design, manufacturing, and sales of mechanical presses and auxiliary equipment.


Chin Fong Headquarter & Main,
Chang Hua, Taiwan
Land Area: 28,122M²
Factory Area: 14,867M²

MILESTONES

Sep. 2023 Awarded the silver medal in the "Talent Development Quality Management System TTQS" from the workforce development agency, ministry of Labor.

Jul. 2023 Awarded the 2023 Taiwan Green Enterprise Label.

Mar. 2023 The Straight Single Intelligent Press awarded the Excellence Award in the category of other CNC machine tools and their processing units in the 16th Machine Tool "Research and Development of Innovative Products" Competition in 2023.

Nov. 2022 Straight Side 4 Point Eccentric Gear Drive Servo Press awarded 2023 Taiwan Excellence Award.

Nov. 2021 Straight Side Single Crank Precision Presses awarded 2022 Taiwan Excellence Award.

Sep. 2021 Awarded as the sixth potential backbone enterprise.

Nov. 2020 i Forming Intelligent Monitoring System awarded 2021 Taiwan Excellence Award.

Jan. 2020 Passed the SGS international certification agency ISO 14001 international environmental management system and ISO 45001 occupational safety and health management system.

Nov. 2019 Intelligent Double Crank Power Press won 2020 Taiwan Excellence Award.

Apr. 2019 Servo Presses – SDS2-1000 won the Industrial Innovation Activity Award from Ministry of Economic Affairs.

Mar. 2019 Successfully released i Forming PMS - Intelligent Forming Productivity Management System in TIMTOS.

Oct. 2018 Work with CS WIND to manufacture offshore wind turbine towers.

Jan. 2016 Established a new facility in Mexico--Stamtec Equipos de Estampación.

Jan. 2011 Establishment of Chin Fong Jiangsu in Huaian, China.

Mar. 2009 Became Taiwan's first certified maker in Certification System for Power Press and Shear Machinery implemented by Executive Yuan-Labor Affairs Department.

Mar. 2007 Demonstrated Taiwan's first single and double crank presses with whole new Servo Drive Technology in TIMTOS.

Jun. 2006 Establishment of Chin Fong Indonesia.

Jan. 2004 Establishment of Taichung Harbor Plant.

Sep. 2002 Establishment of Chin Fong Precision Machinery in Ningbo, Zhejiang, China.

Mar. 2001 Establishment of Chin Fong Chang Pin Machining Plant, and imported large-scale machining equipment.

Jul. 2000 Awarded contract for Taiwan TOYOTA Motor A0 tandem press line, including one unit of 2400 ton link press and three units of 800 / 600 ton presses.

May. 2000 Establishment of Chin Fong Thailand.

Oct. 1995 Establishment of Chin Fong Malaysia.

Oct. 1994 Establishment of Chin Fong (China) Machine Co., Ltd. in Ningbo, Zhejiang, China.

Apr. 1994 Certified for ISO-9001 by SGS Yarsley International Certification.

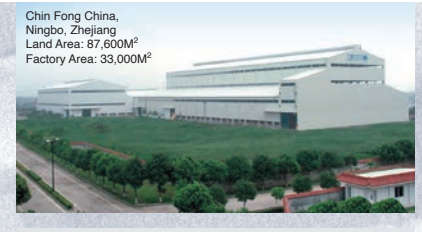
Sep. 1990 Supplied a 1000 / 500 ton tandem press line to MAZDA Motor Indonesia in technical cooperation with Hitachi Zosen.

Mar. 1990 Establishment of STAMTEC, Inc, USA.

Feb. 1986 Cooperated with Kurimoto Iron Works, and awarded the contract to supply a tandem press line (600 / 400 tons) for Kuozui Motor (joint venture with Toyota).

Mar. 1964 Renamed Chin Fong Machine Industrial Co., Ltd.

Feb. 1948 Chin Fong Iron Works was founded to manufacture agricultural machines.


Chin Fong China,
Ningbo, Zhejiang
Land Area: 87,600M²
Factory Area: 33,000M²


Chin Fong Ningbo,
Ningbo, Zhejiang
Land Area: 53,080M²
Factroy Area: 21,600M²

STAMTEC. INC.
Manchester, Tennessee
Land Area: 112,600M²
Factory Area: 15,728M²


Chang Ping Plant,
Chang Hua, Taiwan
Land Area: 10,100M²
Factory Area: 5,800M²


Chang Ping II Plant,
Chang Hua, Taiwan
Land Area: 10,800M²
Factory Area: 6,622M²


Chin Fong Heary Machinery Plant,
Taichung, Taiwan
Land Area: 59,677M²
Factory Area: 19,556M²


Chin Fong Jiangsu,
Huai'an, Jiangsu
Land Area: 136,841M²
Factory Area: 11,232M²

OCP G2

TAIWAN EXCELLENCE 2019

OCP 25~300 ton
G2 110~300 ton
Gap Frame Press

- C-Type press frame allows convenient die setting.
- The super rigid steel frame minimizes deflection.
- Long and precise six-point, box type gibbing enhances off-center loading resistance and prolongs die life.

iLS1/iS1/iS2

iLS1/iS1/iS2
SERVO Press

- One machine, multi-purpose.
- One cycle, multi-segment curves.
- Energy saving, environmental friendly.

TAIWAN EXCELLENCE 2013

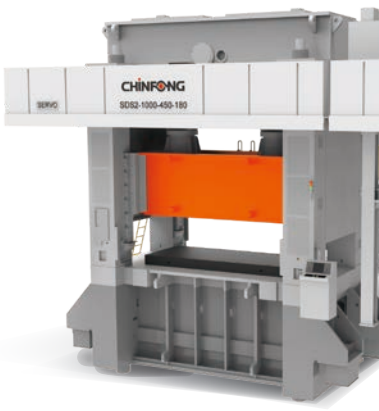
TAIWAN EXCELLENCE 2018

SDS4/SDS2

Straight Side Direct Drive Servo Press

TAIWAN EXCELLENCE 2023

It is applied to the forming and processing of large sheet metal parts. Various stamping modes are suitable for large sheet metal industries such as automobile sheet parts, home appliance sheet metals, and panels.



ST1

TAIWAN EXCELLENCE 2022

ST1 80~300 ton

Straight Side Single Crank Precision Presses

- Excellent solution to minimize C-frame deflection.
- Expand the limit of progressive stamping applications.
- Improve high precision stamping and stability.
- Reduced noise and vibration to enhance work environment.

SC1

SC1 80~300 ton

Single Crank Straight Side Presses

SLX

SLX 160~600 ton

Straight Side Double Crank Link Drive Press

- Ideal for progressive applications of automotive and electrical parts.
- The linkage-driven mechanism greatly improves the forming ability.

GTX

GTX 160~600 ton

Straight Side Double Crank Press

- The unitized straight-side press frame desig minimizes deflection commonly found on Gap-frame presses.
- Versatility makes it easy to integrate with a wide range of press automation equipment.

STD

STD 150~1200 ton

Straight Side Double Crank Press

The super rigid press frame and wide bolster area are ideal for heavy-duty stamping and progressive operations.

STS

STS 200~800 ton

Straight Side Single Crank Press

- The super rigid steel frame reduces vibration, and improves precision accuracy.
- Versatile to integrate with a wide range of press automation equipment.
- Ideal for high speed stamping applications.

HSD

GHS

HSD 60~300 ton
GHS 20~60 ton
Precision High Speed Presses

- HSD Series was developed specifically for high speed lamination.
- This series offers great performance and has been widely used in motor core lamination with automatic stacking.

KL1/KL2

TAIWAN EXCELLENCE 2020

KL1/KL2 400~2000 ton
Long Stroke Forging Presses

- 6-Bar Link Motion Drive Transmission.
- Optimized for Long Stroke Forging Applications.
- Versatile Slide Motion Curve compared to Knuckle Joint Driven Mechanism.
- Decelerated and Stable Motion Curve at Forming Area provides Optimized Forming Capabilities.

image source: main products on the official website of Chian Hsing Forging Industrial Co., Ltd.

TAIWAN EXCELLENCE 2014

WFM/WF2

WFM/WF2 400~4000 ton
Warm Hot Forging Press

TAIWAN EXCELLENCE 2016

- High-precision with super rigidity design.
- Long slide gibbings achieve precision forging with resistance to off-center loading.
- Versatility makes it easy to integrate with a wide range of press automation equipment to improve productivity.

KW1/KW2

KW1/KW2
260~1200 ton

Cold & Semi-hot Forging Link-Motion with Knuckle presses

- Super rigid press frame with minimal deflection.
- Single/Double crank knuckle joint design with long stay at BDC offers exceptional precision & accuracy.
- Ideal for blanking & coining of heavy gauged material.

TAIWAN EXCELLENCE 2015

KT/KP

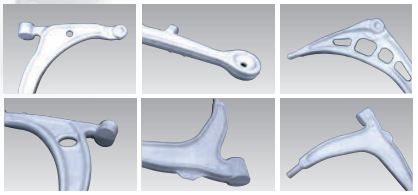
TAIWAN EXCELLENCE 2017

KT/KP 250~2500 ton

Knuckle of KT/KP Series Joint Press

- The high precision and rigid frame structure for KT/KP series is suitable for cold extrusion, coining, and embossing forming.
- Versatility makes it easy to use with a wide range of press automation equipment.

TAIWAN EXCELLENCE 2017



S4/SL4

S4/SL4 400~2400 ton

TAIWAN EXCELLENCE 1993

Tandem Press Line for Automotive Industry

The wide bolster area of the S2/S4 Series offers space to equip with other automation equipment or die cushion(s) for deep draw metal forming processes.

SL4-1500 Bolster Area 4500x2200(mm)
S4-600x3 Bolster Area 3400x2200(mm)

SL4-2400 Bolster Area 4600x2150(mm)
S4-800x2 Bolster Area 4600x2150(mm)
S4-600 Bolster Area 4600x2150(mm)

SL4-2400 Bolster Area 4600x2500(mm)
S4-1000x4 Bolster Area 4600x2500(mm)

SE2T/SE4T

SE2T/SE4T 400~2400 ton

Transfer Press

- Ultra rigid frame is resistant to Off-center loading.
- Advanced design of slide-point arrangement assures even distributed of loading.
- Convenient to integrate with the 2D/3D transfer unit to increase productivity.

SE2T-1000 Bolster Area 3500x1400(mm)

SE4T-1000x2 Bolster Area 6100x2150(mm)

SE4T-2000 Bolster Area 6500x2500(mm)

CHIN FONG

OCP

C-Frame
Single Crank Power Presses

C型シングルクランクプレス

35. 45. 60. 80. 110. 160. 200. 260. 300 ton

OCP

C-Frame
Single Crank Power Presses

C型シングルクランクプレス

台灣精品 2019
TAIWAN EXCELLENCE

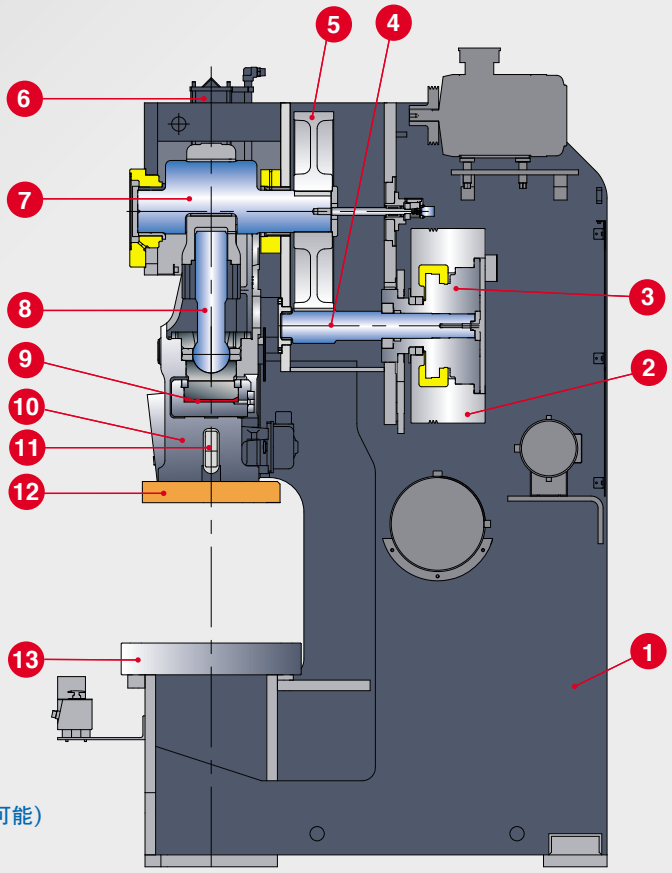
Improve Stamping Quality	加工品質を向上
Reduce Noise & Vibration	騒音及び振動を減少
Easy Operation	操作性がよい
Improve Comfort & Safety	便利性及び安全性を向上
Prolong Toolings' Life	金型寿命の大幅アップ
Minimized Frame Deflection	最小のフレーム変位量
Increase Permissible Off-center Load	偏心荷重に強い
Low Noise in Blanking	ブランキング時の騒音が小さい
Easy Operation and Set-up	分かりやすい操作パネル、操作＆設定に簡単
High Performance Wet Type Clutch/Brake	湿式クラッチブレーキ
High Precision 6-point Centered Gibs	高精度固定式六面ガイド
Super Rigid Steel Frame	高剛性フレーム
Minimized Total Clearance	最小の総合すきま

SPECIFICATIONS 仕様

MODEL 機種 / TYPE 型式			OCP-35			OCP-45			OCP-60			OCP-80			OCP-110			OCP-160			OCP-200			OCP-260			OCP-300		
			EW																										
			S	H	V	S	H	V	S	H	V	S	H	V	S	H	V	S	H	V	S	H	V	S	H	V	S	H	V
Capacity 能力		Ton	35			45			60			80			110			160			200			260			300		
Rated tonnage point (above B.D.C.) 能力発生点		mm	3.2	2.3	3.2	3.2	2.3	3.2	4	2.3	4	5	3.2	5	5	3.2	5	6	4	6	6	4	6	6	4	6	6	4	6
Stroke length ストローク長さ		mm	60	40	90	70	50	110	80	50	130	100	60	150	110	70	180	130	80	200	150	100	200	180	100	250	180	100	250
Strokes per minute ストローク数	Fixed 固定	S.P.M.	100	135	80	95	130	80	90	120	70	80	100	60	70	90	50	60	80	45	50	65	35	45	55	30	45	55	30
	Variable 変速	S.P.M.	70-135	90-180	50-95	65-130	85-175	50-95	60-120	80-165	40-85	50-100	65-140	40-75	45-90	60-130	30-65	35-70	50-100	20-50	35-70	45-95	20-50	30-60	35-75	20-40	30-50	35-75	20-40
Die height (S.D.A.U.) ダイハイト		mm	250	260	235	290	300	270	325	340	300	355	375	330	385	405	350	435	460	400	475	500	450	485	525	450	485	525	450
Slide area (L.R. x F.B.) スライド面積		mm	380x320			430x350			500x400			560x460			650x520			700x580			850x650			920x700			920x700		
Bolster area (L.R. x F.B.) ボルスター面積		mm	780x340			850x440			900x520			1000x600			1150x680			1250x760			1400x820			1550x840			1550x840		
Bolster thickness ボルスター厚さ		mm	70			90			90			100			120			150			160			180			180		
Slide adjustment スライド調整量		mm	50			60			70			80			90			100			110			120			120		
Main motor 主電動機		HPxP	5x4			5x4			7.5x4			10x4			15x4			20x4			20x4			25x4			30x4		
Slide adjusting motor スライド調整モーター		kWxP	Manual			Manual			0.4x4			0.4x4			0.4x4			0.75x4			0.75x4			1.5x4			1.5x4		
Working height 作業面高さ		mm	800			800			800			830			845			915			1020			1120			1120		
Maximun upper die weight 最大上型重さ		kg	300			300			300			345			450			540			800			800			800		
Die cushion エア式ダイクッション装置						**D1-200-60**			**D2-240-70**			**D3-300-70**			**D4-350-80**			**D5-400-80**			**D6-400-100**			**D7-550-100**			**D7-550-100**		
Capacity 能力		Ton	-			2.6			3.6			6.3			8			10			14			14			14		
Pad area (L.R. x F.B.) パッド面積		mm	-			335x230			350x235			410x260			500x300			540x350			640x470			700x520			700x520		
Stroke ストローク		mm	-			60			70			70			80			80			100			100			100		

1. Press Frame
2. Flywheel
3. Wet Clutch & Brake
4. Pinion Drive Shaft
5. Main Gear
6. Counter Balancer
7. Crankshaft
8. Adjusting Screw
9. Hydraulic Overload Protector
10. Slide
11. Slide Knockout
12. Slide Plate (Detachable)
13. Bolster

1. フレーム
2. フライホイール
3. 湿式クラッチブレーキ
4. ピニオンシャフト
5. メインギヤー
6. スライドバランサー
7. クランクシャフト
8. スクリュー
9. オーバロードプロテクター
10. スライド
11. スライドノックアウト装置
12. スライドプレート (取外し可能)
13. ボルスター

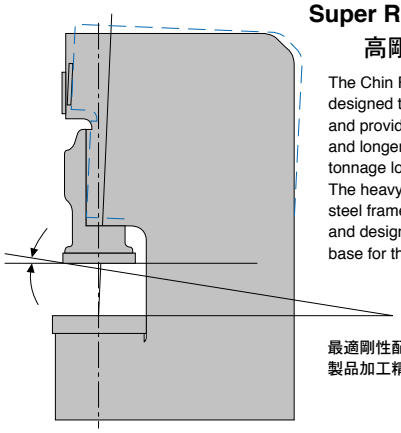


High Driving Torque Wet Clutch & Brake
高トルク湿式クラッチブレーキ

The Chin Fong clutch delivers rated torque at relatively low air pressure, resulting in reduced lining wear and air consumption. Life of clutch and brake linings is extended by effective heat dissipation resulting from linings running in an enclosed oil bath. Low moment of inertia significantly reduces wear on linings. Modern friction linings combine high performance with low vibration and noise.

- Superior Performance 高性能
- Noise Reduction 低騒音
- Improved Efficiency 高効率
- Dust-Free Operation 無粉塵
- Low Inertia 低イナーシャ
- Prolong Lifespan 使用寿命長い
- High Torque 高トルク
- Less Maintenance Cost メンテナンスコスト低下

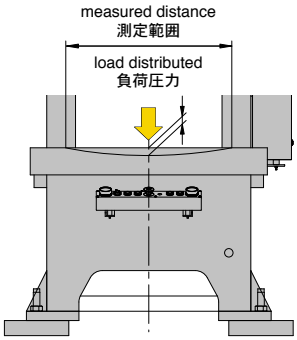
Super Rigid Steel Frame
高剛性フレーム



The Chin Fong OCP Series is designed to resist deflection, and provide stamping precision and longer die life, even at full tonnage loads.
The heavy, one-piece welded steel frame is fully stress relieved and designed to provide a stable base for the OCP Series presses.

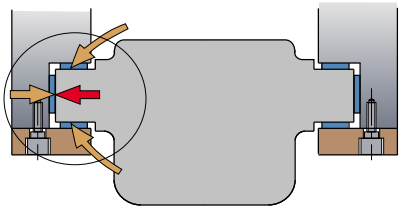
最適剛性配分のフレーム設計で、
製品加工精度を大幅にアップ

Minimize Frame Deflection
ベッドデフレクション



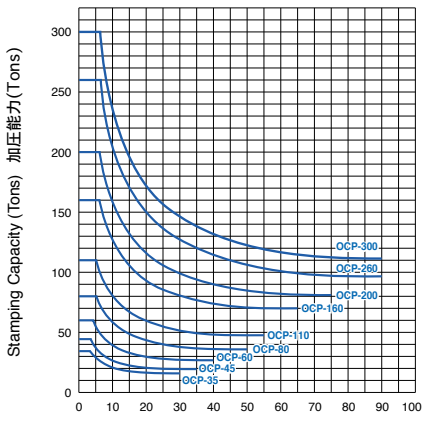
Box Type 6-point Gibs
高精度6面ガイド

One-piece, full-length, box type gibs assure slide guiding precision. Force is delivered vertically, minimizing lateral thrust and, consequently, reducing off-center loading and friction in the gibs.

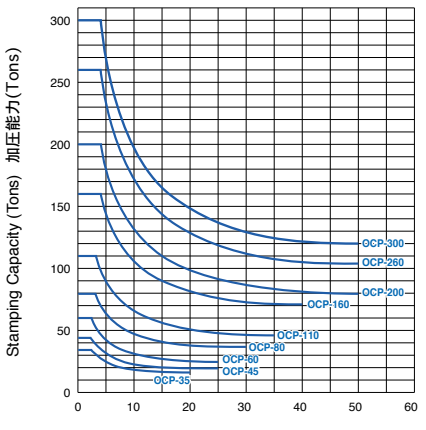


ロングスライドガイドが動的精度を保証します。

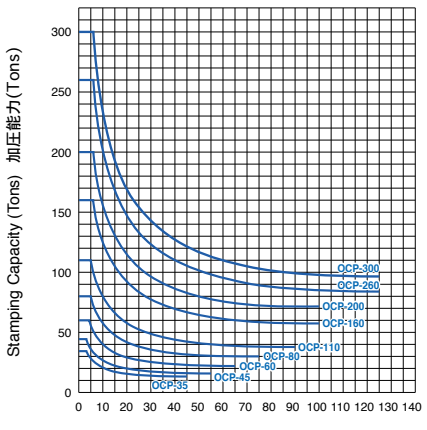
Stroke-Capacity Diagram (S)
ストローク 能力曲線図(S)



Stroke-Capacity Diagram (H)
ストローク 能力曲線図(H)



Stroke-Capacity Diagram (V)
ストローク 能力曲線図(V)



BOLSTER
ボルスター

Fig. 1
図面一

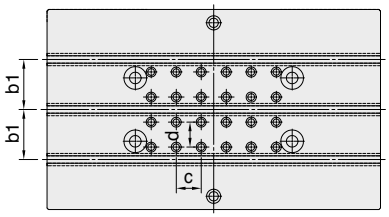


Fig. 2
図面二

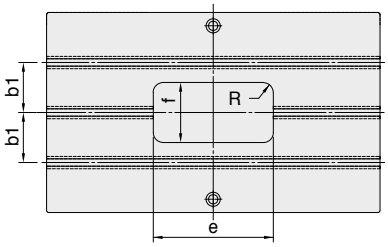


Fig. 3
図面三

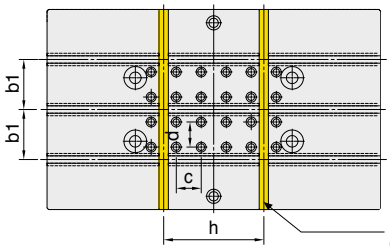
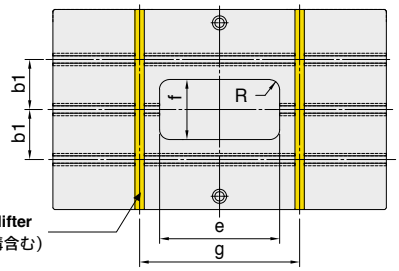


Fig. 4
図面四

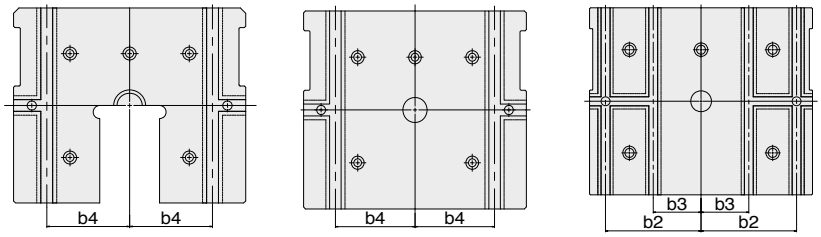


with "U" slot for die lifter
(ダイリフター用 "U" 溝含む)

unit: mm

MODEL 機 種	OCP-35	OCP-45	OCP-60	OCP-80	OCP-110	OCP-160	OCP-200	OCP-260	OCP-300
Bolster Area (L.R. x F.B.) ボルスター面積	780 x 340	780 x 340	900 x 520	1000 x 600	1150 x 680	1250 x 760	1400 x 820	1550 x 840	1550 x 840
No. of Pin Hole x Dia. ダイクッションの穴数 x 穴径	-	15 x ø20	15 x ø20	24 x ø20	24 x ø28	24 x ø28	35 x ø28	35 x ø28	35 x ø28
c x d	-	75 x 85	75 x 100	75 x 75	90 x 90	100 x 100	95x95	100 x 100	100 x 100
b1	120	150	150	150	150	150	150	150	150
e x f	280x140	300 x 150	320 x 160	360 x 180	400 x 200	440 x 220	480 x 240	520 x 260	520 x 260
g	-	420	420	480	480	520	550	650	650
h	-	225	225	300	360	400	475	500	500

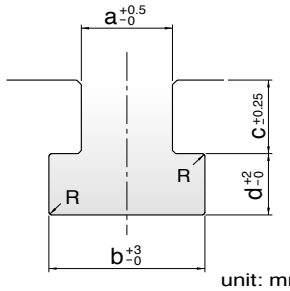
SLIDE PLATE スライドプレート加工図



unit: mm

MODEL 機 種	OCP-35	OCP-45	OCP-60	OCP-80	OCP-110	OCP-160	OCP-200	OCP-260	OCP-300
Slide Plate Area (L.R. x F.B.) スライド面積 (左右 x 前後)	380x320	430x350	500x400	560x460	650x520	700x580	850x650	920x700	920x700
Type of T-Slot T溝型番	C	C	D	D	E	E	E	E	E
Diameter of die shank hole シャンク穴径	Ø 38	Ø 38	Ø 50	Ø 50	Ø 50	Ø 65	Ø 65	Ø 65	Ø 65
b2	-	-	-	-	-	300	300	300	300
b3	-	-	-	-	-	150	150	150	150
b4	100	125	125	150	150	-	-	-	-

T-Slot Detail T型槽詳細



unit: mm

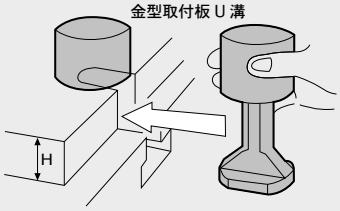
Dim. 寸法 \ Type 型番	C	D	E
a	18	22	28
b	30	37	48
c	18	24	28
d	12	16	20

Quick Die Change System 便利な金型交換装置 (Q. D. C. S.)

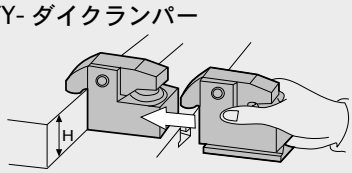
(For reference only. Select the items below properly as needed.)
(下記型式、仕様及び数量の選択は参考のみ)

Die Clamp TX-type
TX- ダイクランパー

With "U" Cut in die set
金型取付板 U 溝



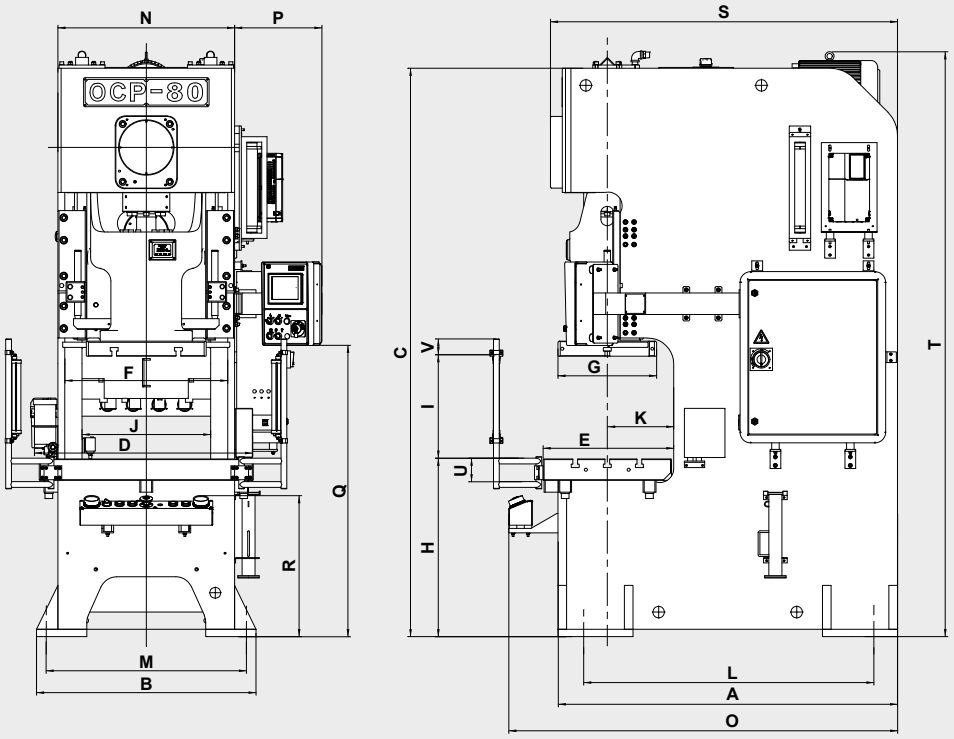
Die Clamp TY-type
TY- ダイクランパー



Die plate thickness, H, to be specified
金型取付板 U 溝 (厚さを確認下さい)

Option 選択配置			Qty 数量 / Model 機種	OCP -35	OCP -45	OCP -60	OCP -80	OCP -110	OCP -160	OCP -200	OCP -260	OCP -300
Die Clamp ダイクランパー	Upper 上型	TX-2 or TY-2 TX-2 或いは TY-2	Clamping Force 2 tons/pc クランプ能力 2 トン／個	4	4	4						
		TX-4 or TY-4 TX-4 或いは TY-4	Clamping Force 4 tons/pc クランプ能力 4 トン／個				4	4				
		TX-6 or TY-6 TX-6 或いは TY-6	Clamping Force 6 tons/pc クランプ能力 6 ン／個						4	4	6	6
	Lower 下型	TX-2 or TY-2 TX-2 或いは TY-2	Clamping Force 2 tons/pc クランプ能力 2 トン／個	4	4	4						
		TX-4 or TY-4 TX-4 或いは TY-4	Clamping Force 4 tons/pc クランプ能力 4 トン／個				4	4	4			
		TX-6 or TY-6 TX-6 或いは TY-6	Clamping Force 6 tons/pc クランプ能力 6 ン／個							4	6	6
Die Lifter ダイリフター		DL-28-400	Pay Load 560 kg/pc 耐荷重560 キロ／本		2							
		DL-28-500	Pay Load 720 kg/pc 耐荷重720 キロ／本			2						
		DL-28-600	Pay Load 880 kg/pc 耐荷重880 キロ／本				2	2				
		DL-28-700	Pay Load 1040 kg/pc 耐荷重1040 キロ／本						2			
		DL-28-800	Pay Load 1200 kg/pc 耐荷重1200 キロ／本							2	2	2
Die Arm ダイアーム		RC-700-600	Pay Load 600 kg/pc 耐荷重600 キロ／本	2	2	2	2	2				
		RC-800-800	Pay Load 800 kg/pc 耐荷重800 キロ／本						2			
		RC-900-900	Pay Load 900 kg/pc 耐荷重900 キロ／本							2	2	2
Hydraulic Power Unit 油圧パワーユニット		FP6308U		1								

OUTLINE DIMENSIONS
外形寸法



unit: mm

MODEL 機種 / TYPE 型式	OCP-35			OCP-45			OCP-60			OCP-80			OCP-110			OCP-160			OCP-200			OCP-260			OCP-300		
	S	H	V	S	H	V	S	H	V	S	H	V	S	H	V	S	H	V	S	H	V	S	H	V	S	H	V
A	1233			1358			1382			1585			1745			1970			2115			2325			2380		
B	800			850			920			1025			1160			1280			1445			1630			1630		
C	2210			2345			2555			2655			2885			3250			3625			3950			4015		
D	780			850			900			1000			1150			1250			1400			1550			1550		
E	340			440			520			600			680			760			820			840			840		
F	380			430			500			560			650			700			850			920			920		
G	320			350			400			460			520			580			650			700			700		
H	800			800			800			830			845			915			1020			1120			1120		
I	310	300	325	360	350	380	405	390	430	455	435	480	495	475	530	565	540	600	625	600	650	665	625	700	665	625	700
J	502			520			534			601			660			760			865			950			950		
K	175			230			270			310			350			390			420			430			430		
L	1063			1188			1192			1355			1475			1610			1755			1895			1950		
M	730			770			840			935			1060			1210			1350			1500			1500		
N	636			666			730			825			950			1070			1205			1350			1350		
O	1465			1588			1610			1815			1975			2200			2345			2555			2610		
P	310			310			310			410			410			410			410			410			410		
Q	1158			1243			1363			1360			1380			1385			1390			1405			1405		
R	660			640			640			660			660			690			790			870			870		
S	1275			1405			1389.5			1620			1802.5			2050			2217			2400			2540		
T	2275			2500			2680			2730			3060			3400			3710			4200			4250		
U	70			90			90			100			120			150			160			180			180		
V	50			60			70			70			80			90			90			100			100		

Standard Functions / Accessories

- Fixed Type Operation Stand
- Control System (PLC + HMI Operation Panel)
  - · Electronic Crank Angle Display
  - · Electronic SPM Display
  - · LCD type Press Status Monitor
- Operation Mode Selection
  Off / Inching / Safety One Stroke / Continuous
- Hydraulic Overload Protector (H.O.L.P.)
- Overrun Detector
- Door Interlocking Power Isolation Switch
- Dual-coiled Solenoid Valve
- Provision Circuit for Safety Light Curtain
- Power Receptacle (Power Source Wiring by User)
- Die Height Indicator (Unit:0.1mm)
- Motorized Grease Lubrication Device
- Stroke Counter, 6 digits
- Preset Counter, 6 digits
- Maintenance Counter, 4 digits (Unit:10K)
- Life Counter, 10 digits
- Batch Counter
- Electronic Rotary Cam Switch (6 Spare Channel)
- Air Ejector, 3/8", One Channel
- Misfeed Detection Consent, Two Channel
- Motorized Slide Adjustment (Only Applicable to Capacity 60~300 ton)
- Inverter & Main Motor Reversing Circuit Device
- Slide and Die Balance Device
- Motorized Counter Balancer Lubrication Device

標準付属品

- 固定式両手押しボタン操作盤
- 電気制御システム (シーケンサー&タッチパネル操作盤)
  - · 電子式クランク角度指示計
  - · 電子式運転スピード指示計
  - · 運転状態LCD監視装置
- 運転モードの選択
  切 / 寸動 / 安全一行程 / 連続
- 油圧オーバーロード保護装置
- 二度落ち検知回路
- 制御盤遮断外部操作ハンドル
- ダブルソレノイドバルブ
- 光線式安全装置用予備回路
- 電源コンセント (電源はお客様手配とする)
- ダイハイト指示計 (単位0.1mm)
- 電動式グリース潤滑装置
- ストロークカウンター 6 桁
- プリセットカウンター 6桁
- メンテナンスカウンター 4桁 (単位：万)
- 寿命カウンター 10桁
- ロットカウンター
- 電子式ロータリカムスイッチ (予備6連)
- エアーエジェクター3/8" 1回路
- ミスフィード　コンセント2回路
- 電動式スライド調整装置 (60トン～300トンに適用)
- インバーター及びメインモーター逆転装置
- スライド及び金型のバランス装置
- 電動式バランサー潤滑装置

Optional Functions / Accessories

- Scrap Chopper Counter, 3 digits
- Portable 2-hand Pushbutton T-stand
- Duel-coiled Solenoid Valve with Detector
- Remote Monitor & Control System
- Die Area Light
- Quick Die Change System
- Safety Block with Plug
- Contour of Upgraded Model
- Intelligent Forming Produtivity Management System
- Remote Service

オプション

- カットカウンター3桁
- ポータブル両手操作盤
- ダブルソレノイドバルブ (検知付き)
- 遠隔監視モジュール
- ダイライト
- 金型交換装置 (Q.D.C.S.)
- 安全プラグ及び安全ブロック
- 特殊フレーム仕様
- 知恵成形生産力管理系統
- リモートサービス