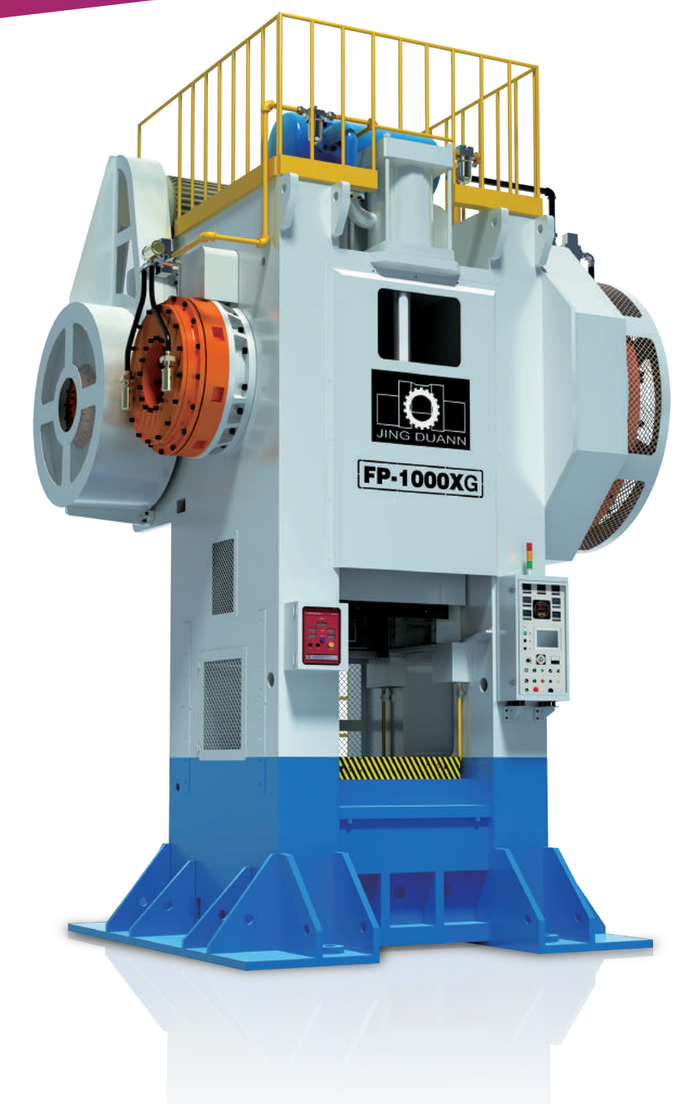
FP-XG

HIGH SPEED FORGING PRESSES



FEATURES

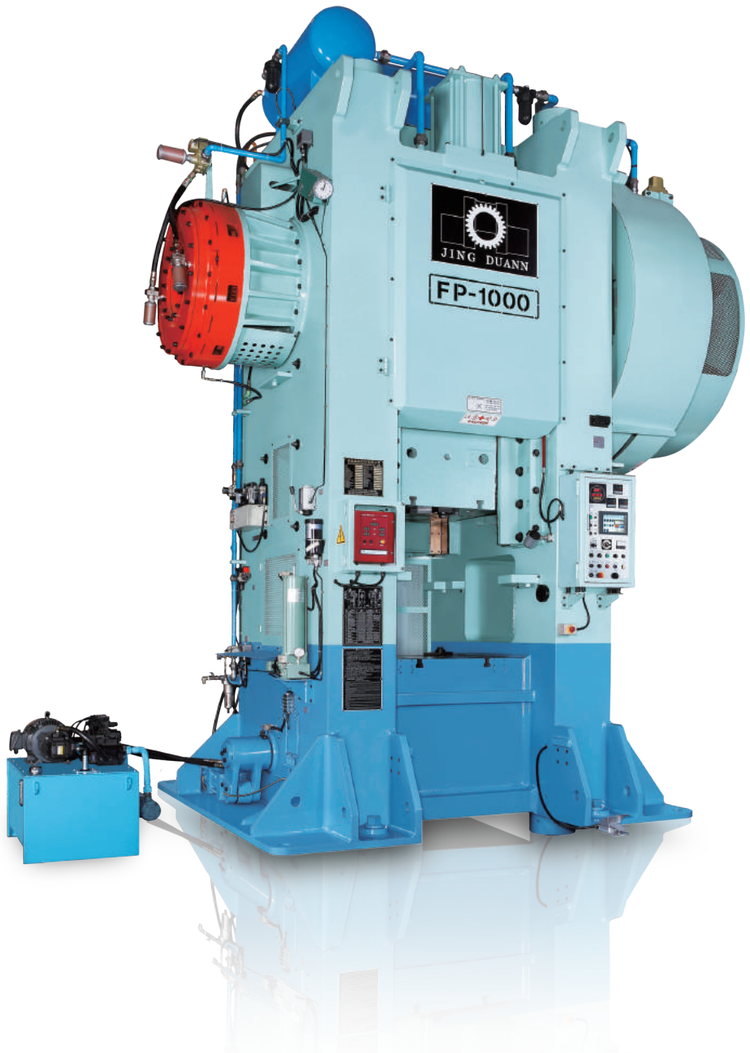
- **Gear Driven:**
  XG type is driven by gear, can reduce travel speed through gear ratio design to achieve slow molding effect. Applicable to forging molding of aluminum, copper and other non-ferrous materials, but also suitable for needs of long extension engineering forged steel parts, such as automotive transmission shaft CV-Joint.
- **X-type Slider Guide Rails:**
  Slider guide rails adopt X-type design, fully overcoming the thermal expansion phenomenon caused by the heat conducted from mold to slider when forging.
  The design makes sliding gap variation be reduced to a minimum, and long guide rail design enhances overall rigidity and eccentric load capacity, so more suitable for precision multi-station forging operations.
- **New-type Flywheel, Large Gear Suspension Mechanism:**
  1. Flywheel and large gear are hung on bearing, so weight is no longer hung on eccentric shaft, and copper lining will not heat up and can reduce wear of copper lining and improve service life when rotating.
  2. New-type suspension design can ensure running smoothly without deflection of flywheel and large gear, greatly reducing the noise generated when gear is in operation and improving gear service life.
  3. Internal bearing of flywheel adopts forced machine oil lubrication, ensuring never lack of machine oil and also improving service life of bearing due to cooling effect of machine oil.
- **Semi-hermetic Clutch MechanismV**
  The semi-hermetic clutch mechanism guides external cooling air into clutch through rotary motion, increasing heat dissipation effect and effectively reducing internal operating temperature of clutch, increasing contact area of lining sheets, enhancing clutch transmission torque, and at the same time prolonging service life of lining sheets.
- **Ultra High Rigidity Machine Frame:**
  1. Strength of four steel plates on top of machine frame is strengthened to make it present an arched shape, enhancing machine frame rigidity and reducing machine frame deformation, at the same time sharing eccentric shaft load and reducing impact force on machine frame to protect eccentric shaft to avoid the occurrence of fracture.
  2. The structure of machine frame is optimized, enhancing machine frame rigidity and reducing internal stress load, so more suitable for heavy duty forging operations.

*This design is subject to change without notice.

ITEM \ MODEL	UNIT	FP-600XG	FP-800XG	FP-1000XG	FP-1300XG	FP-1600XG
Capacity	Tons	600	800	1000	1300	1600
Stroke of ram	mm	200	250	250	280	300
Adjustment of ram	mm	10	10	10	10	10
Number of stroke	Spm	70	60	60	60	50
Work number of stroke	Spm	18	18	18	16	16
Shut height	mm	750	850	950	950	1100
Rated tonnage point	mm	6	6	6	6	6
Ram dimension (L-R & F-B)	mm	660×730	770×810	880×1050	1020×1080	1050×1130
Table dimension (L-R & F-B)	mm	800×880	880×1000	1040×1080	1140×1140	1200×1200
Side window (L-R & F-B)	mm	550×550	600×600	700×700	750×700	980×800
Main motor	Kw×P	45kw×6p	55kw×6p	75kw×6p	90kw×6p	110kw×6p
Ejector in the ram	Tons-mm	6Ton – 30mm	10Ton – 30mm	10Ton – 30mm	10Ton – 40mm	10Ton – 40mm
Ejector in the table	Tons-mm	8Ton – 50mm	12Ton – 50mm	12Ton – 50mm	12Ton – 50mm	17Ton – 50mm
Working number-distance	Number-mm	3-160	3-180	3-200	3-220	3-240
Press weight	Kg	50,000	65,000	90,000	105,000	140,000
Press Dimension (L×W×H)	mm	3425×3405×5280	3665×3655×5810	3960×3975×6150	4200×4200×6675	4410×4435×7800

FP

HIGH SPEED FORGING PRESSES



FEATURES

- The upward and downward material-topping design can reduce the inclination of mold cavity to minimize material consumption and save on materials.
- Strong start-up force ensures high production efficiency and the stroke specification of machine are different from tradition ones which facilitate processing of various forgings.
- The operation winds installed at both sides of the machine frame can facilitate the transmission of forgings and enable automatic pressing operation.

  The box-type machine frame features rigid structure that is ideal for warm or hot forging operations and turn out high-precision forgings.
- High production efficiency, simple operation, easy maintenance and low production cost.

  A special design to tackle mold-sticking conditions can make molds return to their normal state for easy operation.
- The accurate design promise great strength of inclination, allow heavy eccentric load and enables multi-forging operations to work out precision forgings.

  The grease lubricated system can reduce frictions among varied machined parts.

  Multiple safety-operation circuit system assures the safety of operations.

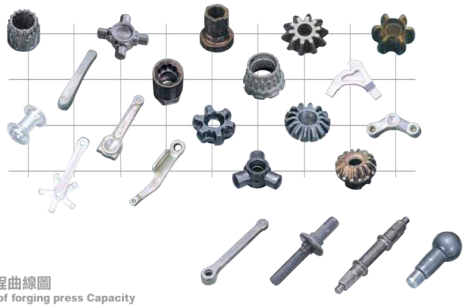
*This design is subject to change without notice.

ITEM / MODEL	UNIT	FP-400	FP-600	FP-800	FP-1000
Capacity	Tons	400	600	800	1000
Stroke of ram	mm	175	200	250	250
Adjustment of ram	mm	10	10	10	10
Number of stroke	Spm	100	95	85	85
Work number of stroke	Spm	18	18	16	16
Shut height	mm	605	650	650	800
Rated tonnage point	mm	5	5	5	5
Ram dimension (L-R & F-B)	mm	590×650	690×630	800×790	940×850
Table dimension (L-R & F-B)	mm	770×840	860×880	980×1000	1100×1050
Side window (L-R & F-B)	mm	450×450	500×500	600×600	700×650
Main motor	Kw×P	30kw×8p	37kw×8p	45kw×8p	55kw×8p
Ejector in the ram	Tons-mm	5Ton – 20mm	5Ton – 20mm	7.5Ton – 30mm	7.5Ton – 30mm
Ejector in the table	Tons-mm	10Ton – 40mm	10Ton – 40mm	10Ton – 40mm	24Ton – 40mm
Working number-distance	Number-mm	1	3-160	3-180	3-200
Press weight	Kg	29,500	40,000	52,000	72,000
Press Dimension (L×W×H)	mm	3360×2600×4655	3500×2730×5100	3985×2987×5520	4185×2910×5935

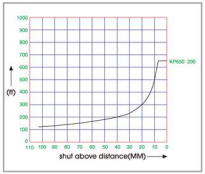
JKP系列-肘結式精密冷間模鍛機

JKP KNUCKLE JOINT COLD FORGING PRESSES

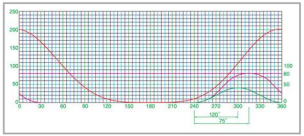
JKP-400 . JKP-650 . JKP-800 . JKP-1000



能力行程曲線圖
Diagram of forging press Capacity



行程曲線圖
Diagram of ejecting stroke



型號 MODEL / 項目 ITEM	單位 UNIT	JKP-400M	JKP-400L	JKP-650L	JKP-800L	JKP-1000L
能力 Capacity	噸 Tons	400	400	650	800	1000
滑塊行程 Stroke of ram	公釐 mm	180	180	200	220	250
滑塊調整量 Adjustment of ram	公釐 mm	15	15	15	15	15
行程次數 Number of stroke	次/分鐘 Spm	40	40	35	35	30
有效作業行程數 Work number of stroke	次/分鐘 Spm	12	12	12	12	12
閉合工作高度 Shut height	公釐 mm	480	500	607.5	650	757.5
能力發生點 Rated tonnage point	公釐 mm	8	8	8	8	8
滑塊面積 (L-R & F-B) Ram dimension	公釐 mm	400*500	600*600	750*700	800*800	1020*1000
台腹面積 (L-R & F-B) Table dimension	公釐 mm	580*700	700*700	900*840	950*900	1200*1000
側窗口尺寸 (L-R & F-B) Side window	公釐 mm	420*410	420*430	600*500	650*600	850*650
主電動機 Main motor	仟瓦 KwxP	變速 37kw*4p 定速 30kw*6p	變速 37kw*4p 定速 30kw*6p	變速 55kw*4p 定速 45kw*6p	變速 75kw*4p 定速 55kw*6p	變速 75kw*4p 定速 55kw*6p
滑塊調整電動機 Ram of adjustment motor	仟瓦 KwxP	2.2kw*6p	2.2kw*6p	0.75kw*4p	0.75kw*4p	0.75kw*4p
潤滑電動機 Motor of lubricating	仟瓦 KwxP	0.75kw*4p	0.75kw*4p	0.75kw*4p	0.75kw*4p	0.75kw*4p
上頂料能力-行程 Ejector in the ram	噸-公釐 Tons-mm	6Ton – 30mm	6Ton – 30mm	6Ton – 30mm	6Ton – 30mm	6Ton – 30mm
下頂料能力-行程 Ejector in the table	噸-公釐 Tons-mm	30Ton – 80mm	3x10=30Ton – 80mm	3x10=30Ton – 80mm	3x10=30Ton – 80mm	6x5=30Ton – 80mm
離合器油壓機 Oil hydraulic press of clutch	仟瓦 KwxP	0.75kw*4p	0.75kw*4p	0.75kw*4p	3.75kw*6p	3.75kw*6p
離合器油冷卻機 Oil type cooler of clutch	仟瓦 KwxP	3.2kw	3.2kw	3.2kw	3.2kw	3.2kw
工位數-工位距離 Working number-distance	個-公釐Number-mm	1	3 - 170	3 - 200	3 - 200	5 - 200
使用空氣壓力 Air pressure	公斤/公分² kg / cm²	5	5	5	5	5
機器重量 Press weight	公斤 Kg	35,000	38,000	48,000	68,000	92,000
機器尺寸 (L*W*H) Press Dimension	公釐 mm	2450*1960*4290	2470*2160*4310	2920*2480*4430	3480*2875*5565	3830*3038*5880

本機用途：

廣泛使用於手工具、汽車、機車、自行車、火車、船舶、航空、工具機、紡織機、土木機械、輸送機械、礦山機械、五金零件等鍛造零件加工，為現代鍛造廠不可缺少的先進機械設備，易掌握客戶之精密鍛件，品質與交貨時效，是鍛造廠最佳生產利器。

USES:

The machine is suitable for processing forgings needed in hand tools, autos, motorcycles, bicycles, trains, ships, machine tools, textile machines, woodwork machines, conveying equipment, mining machinery, hardware parts, etc. It's an indispensable machinery equipment for modernized forging plants, because it can produce precision forgings that can meet customer's quality and delivery requirements. The machine is a sharp production tool for forging plants.

本機特性：

1. 凸輪與軸接合採用錐形環便利凸輪角度調整，凸輪表面有刻度依需求可做角度調整。
2. 頂出橫軸與搖臂採用錐形環接合，利用錐形環螺拴頂預緊力做為安全裝置，如頂出機構超負荷藉由錐形環打滑達到保護頂出機構，搖臂與橫軸表面有刻度指針對正，如發現位移表示已超負荷使用，重新調整回歸正確位置。

FEATURES:

1. The joining of can with the shaft utilizes conic ring to facilitate adjustment of can angle. Scales are engraved on the surface of can, which can be used to adjust the angle as desired.
2. The joining of ejector lateral shaft with the rocker utilizes conic ring, where the fastening force of conic-ring bolt is used as safety device, such as when there is overload, the sliding off of conic ring is used to protect the ejector mechanism.
   There are pointers and scale markings on the rocker and ejector lateral alleviated, and it needs to be adjusted back to correct position.
   The installation and removal of conic ring key.

標準配備不含自動進料裝置

Our Standard Accessories for this type of machines are not include the automated feeding system.