

# Knuckle-Joint Automatic Transfer Cold Forging Press

This cold forging press features a knuckle-joint mechanism to deliver high forging forces while reducing energy consumption. The automatic transferring system ensures seamless material handling and increased production rates.



## Overview

### High-Precision Cold Forging Performance

The FKT Series Knuckle-Joint Automatic Transfer Cold Forging Press is engineered for high-precision metal forming with a focus on durability and efficiency. Featuring a robust column box structure made of welded steel plates for stress relief, this press ensures exceptional die life and part accuracy. Its design incorporates a high-precision super-long guide rail for the slider, minimizing eccentric load effects, while the inclusion of separate clutches and brakes maximizes mechanical efficiency and reduces passive part wear.

## Technical Specifications

参数/Item	FKT-400	FKT-650	FKT-800	FKT-1000	FKT-1600
Capacity (KN)	4000	6500	8000	10000	16000
最大锻造力 (KN)	4000	6500	8000	10000	16000
Stroke length (mm)	200	250	250	280	300
行程长度 (mm)	200	250	250	280	300
Transfer speed before & after SPC (mm/s)	8	8	8	8	8
送料速度 (mm/s)	8	8	8	8	8
Stroke per min (SPM) Max speed	35	35	35	32	30
每分钟行程次数 (SPM)	35	35	35	32	30
Die plate stroke (SPM)	20-40	20-40	20-40	20-30	20-30
模具行程次数 (SPM)	20-40	20-40	20-40	20-30	20-30
Die height (mm)	20	15	15	13	10
模具高度 (mm)	20	15	15	13	10
Die width (mm)	600	650	650	700	750
模具宽度 (mm)	600	650	650	700	750
Die width (mm)	15	15	15	15	15
模具宽度 (mm)	15	15	15	15	15
Stroke area (mm²)	800x700	1100x800	1100x800	1100x800	1300x900
行程面积 (mm²)	800x700	1100x800	1100x800	1100x800	1300x900
Stroke area (mm²)	780x700	1080x800	1080x800	1130x800	1300x900
行程面积 (mm²)	780x700	1080x800	1080x800	1130x800	1300x900
Die plate thickness (mm)	120	170	170	180	220
模具板厚度 (mm)	120	170	170	180	220
Die plate thickness (mm) (JIS)	22	37	37	55	75
模具板厚度 (mm) (JIS)	22	37	37	55	75
Die plate thickness (mm) (ANSI)	1.5x5	2.2x5	2.2x5	2.2x5	5.5x5
模具板厚度 (mm) (ANSI)	1.5x5	2.2x5	2.2x5	2.2x5	5.5x5
Die plate thickness (mm) (JIS)	5	5	5	5	5
模具板厚度 (mm) (JIS)	5	5	5	5	5
Die plate thickness (mm) (ANSI)	200	200	200	200	200
模具板厚度 (mm) (ANSI)	200	200	200	200	200
Die plate thickness (mm) (ANSI)	150x3	150x3	150x3	150x3	150x4
模具板厚度 (mm) (ANSI)	150x3	150x3	150x3	150x3	150x4
Die plate thickness (mm)	60	80	80	90	100
模具板厚度 (mm)	60	80	80	90	100

Performance data and technical specifications for the FKT-400 through FKT-1600 models.

### Performance Metrics by Model

Model	Capacity (KN)	Stroke (mm)	Die Height (mm)
FKT-400	4000	200	600
FKT-650	6500	250	650
FKT-800	8000	250	650
FKT-1000	10000	280	700
FKT-1600	16000	300	750

### Key Operational Metrics

**40 SPM**

Max Speed (Variable)

**5 Kg/cm<sup>2</sup>**

Air Pressure

**1 Class**

Accuracy Class (JIS)

## Features & Safety

- 光电安全装置 Safety light curtain
- 快速换模装置 Quick die change device

- 滑块上部顶料装置 Slide knockout device
- 电源插座220W单相 220W (single phase) power socket

Integrated safety and efficiency features including light curtains and slide knockout devices.

- 双手操作台 Moveable two hand operation control pedestal
- 切 / 寸动 / 安全一行程/连续行程 Off / inch / safety stroke / continue mode
- 电动滑块调整装置 Electrical slide adjusting device
- 二度源保护装置 Anti-over running safety device
- 负荷检测 (安全) 装置 (电子式) Loading monitor (electrical)
- 电子凸轮 Digital stroke sensor
- 机械式模高指示器 Die height indicator
- 滑块平衡装置 Slide balance
- 可编程控制—PLC PLC controller—Programmable Controlling System
- 喷风装置 Spray air device
- 空气源接头—回路 1 Auxiliary air connection

- 自动强制给油 Auto lubrication device
- 误送检测装置 Socket for misfeed detecting device
- 台床顶料 (机械式) Bed knockout device
- 主马达反转装置 Main motor reversing device
- VS无级变速马达 Variable speed electrical motor
- 基础螺栓及基础板 Foundation plates and anchor bolts
- 工作灯24V (灯盘式可移动) Work light (24V type)
- 光电接口 Socket for safety light curtain
- 分离式电箱 Separated control cabinet
- 双联电磁阀 Double action solenoid for Clutch/Brake
- 吨位显示 Press loading monitor

Control interface featuring PLC programming, digital stroke sensing, and two-hand operation pedestal.

### Available Operation Modes

- Inching
- Single-acting
- Continuous operation
- Safety stroke

### Standard Advanced Features

Safety Light Curtain, Quick Die Change, Slide Knockout Device, Auto Lubrication, PLC Programmable Control, Digital Stroke Sensor, Loading Monitor