

SAES



精密型肘節式冷鍛沖床 PRECISION KNUCKLE JOINT COLD FORGING PRESSES



SAES 誠懇、平穩、獨特 / SINCERE - SMOOTH - SPECIAL

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To accomplish the precision and quality of pieces, the rigidity and improving the quality of die elements.

SK1 系列

特點：

- SK1 系列沖床是高技藝呈現的冷鍛沖床。為了要達到如此高精密的要求，申琦研發高剛性的機身結構，來確保滑塊精度。SK1 系列沖床更具備週邊設備搭配的多樣性。自動捲料順送系統、塊料送料系統以及傳送裝置...等等，皆可搭配使用，可全然符合任何客戶工廠生產須求。

Features of SK1 series

- SK1 Series Presses- a high performance cold forging press. In order to achieve such high precision, Sanes has increased the rigidity of the frame to prevent slide inclination. SK1 series has versatility system such as auto coil feeding progressive system, slug feeding and transfer system can be incorporated into the system to suit the individual factory's demands.

高效率・高精密的製程

- SK1 系列可應用生產多種及多樣化製品，並提供高效率及高精密的製程。

Efficient and High-Precision processing

- SK1 Series perform efficient and high-precision processing of variously shaped components used in a multitude of applications.



一體成型高剛性結構，確保製品精度

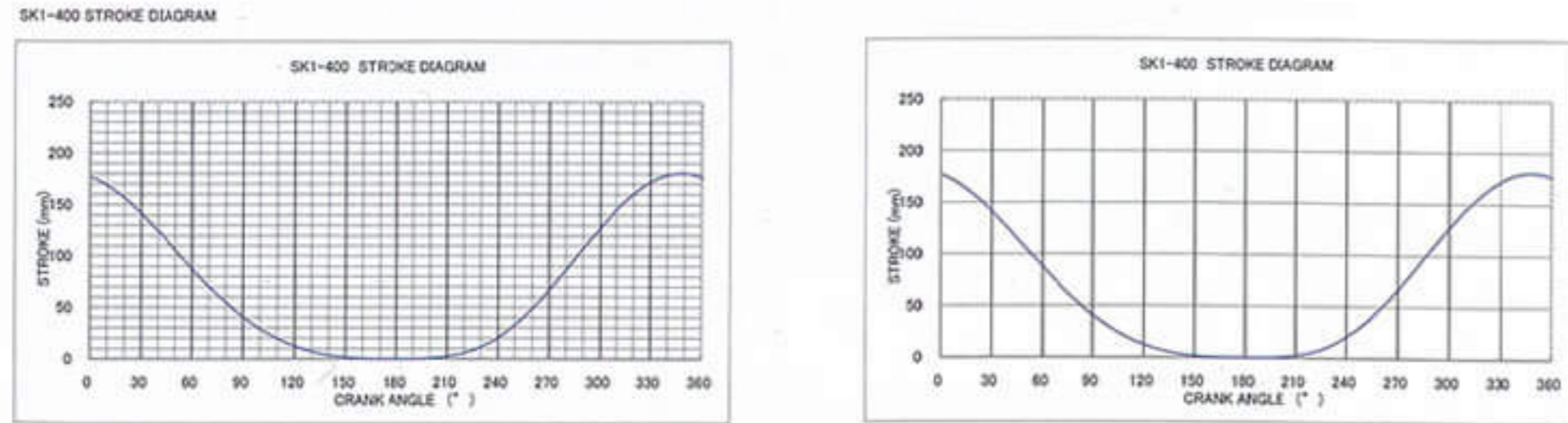
One-Piece High Rigidity Frame ensures Products Precision

- 負載機構採用高剛性結構，可大為降低機身變形量，這不僅是可保持製品精度且可增長模具使用壽命。
- Load Transmission Section uses high rigidity frame can minimized frame deflection, not only in greatly increased high precised production, but also prolonged die service life.

重負荷肘節式運動曲線

Heavy Duty Knuckle Action Motion

- SK1 系列的重負荷肘節運動曲線以慢速接近加工物表面，產生平順的塑性加工，確保生產製程穩定及製品精密度。
- SK1 Series completed with a heavy-duty knuckle motion, provide a slow touch speed in the work range ensure a smooth flexible flow resulting in stable, high precision presswork.



快速應答的超負荷保護裝置，可於發生任何非正常負載情況下，執行保護作用

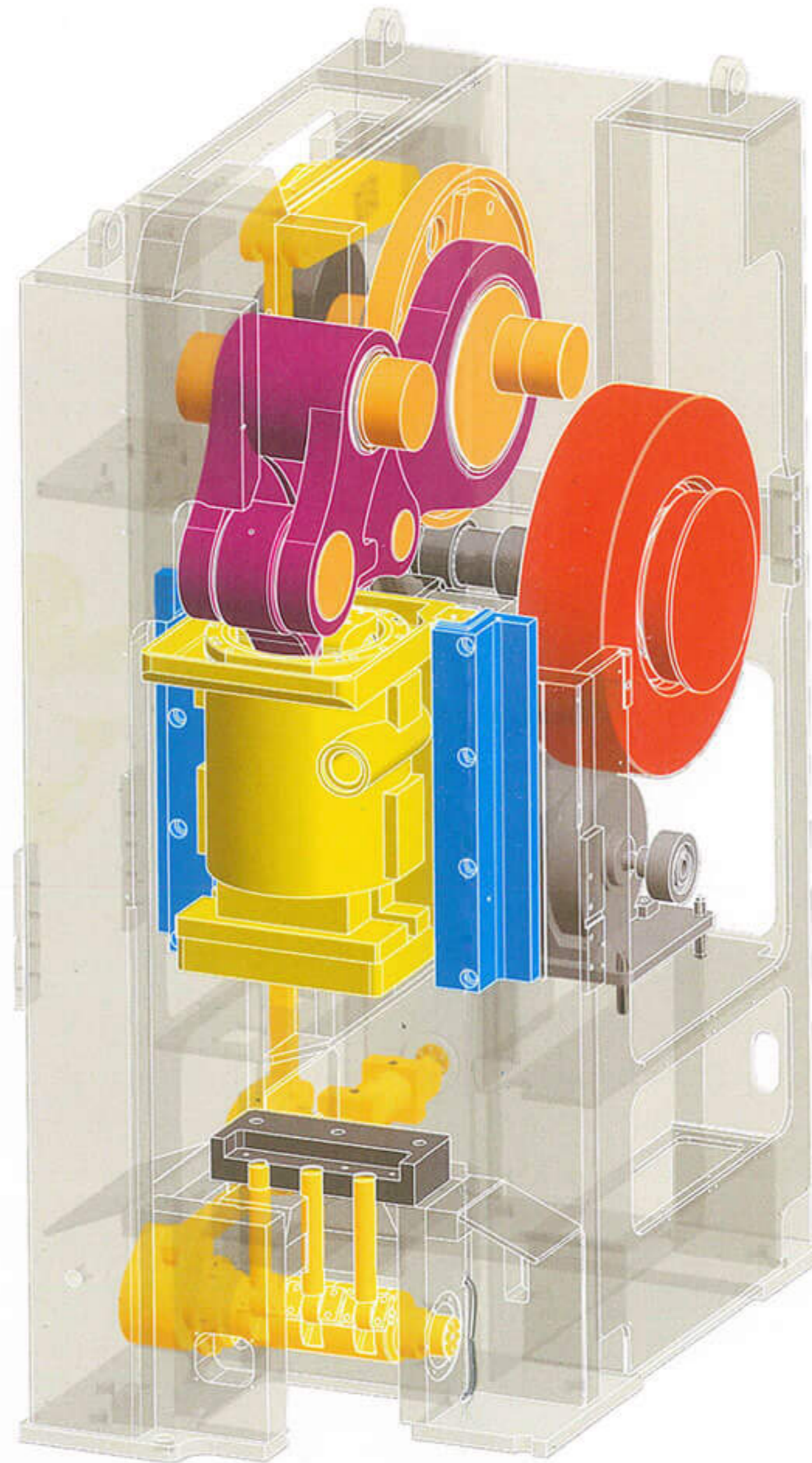
High Responsive Overload Protector(H.O.L.P.) Protects Any Unusual Overload Issue

- 當任何非正常超負荷情況發生時，高應答能力之超負荷保護裝置會同步啟動。傳動裝置立刻分離，滑塊立即停止，若要復歸，則只需將滑塊回復到上死點位置，重新設定，即可自動回復。
- When any unusual die overload happens, high responsive H.O.L.P system will instantaneously activate. Then the drive transmission is disconnected and the slide will stop immediately. Only simply returning the slide to top dead center position (TDC), resetting operation will be achieved automatically.

台盤三工程頂料配備，可完成連續工程工序(選配)

Three-Stations Bolster Knockouts System Make Continuous Operation To Be Possible(Optional)

- 若要進行連續工程操作，則建議採用台盤三工程頂料系統。
- 連續工程操作，可免除退火及磷酸鹽處理，可降低底成本。
- 高精度結構及最小公差可確保製品精度及降低震動。
- It will be easy for continuous operation if select 3-stages bed knockouts system.
- Continuous operation can eliminate inter stage annealing and phosphatic operation, that means can help to save operation cost.
- High Performance Accuracy and Minimal Clearance Can Improve Component Precision also Reduce Vibration



採用高剛性製作技術，特級品質大齒輪，肘節機械理論，調整螺桿以及滑塊接點，這些特點使得整體間隙只有傳統沖床之1/3

Based on high precision manufacturing technology and super quality main gear, the mechanisms of knuckle, the adjust screws, and the joints of slide, overall clearance is 1/3 than conventional presses.

- 高扭矩傳動零件及最小之通過間隙，大為延長模具壽命及確保製品精密。
- High precision torque transmission parts and min. break-through can prolong die life and achieved better precision of completed parts.

穩定的濕式剎車離合器使操作使用安全性提高

Steady Wet Type Clutch and Brake System completed Safety Operation

- 完全密閉式的濕式剎車離合器不僅可以防止灰塵進入，且可降低操作時產生的噪音，特殊設計之摩擦面，不需任何調整。
- 改善單動操作效率，及剎車離合器使用壽命
- Completed enclosed wet type clutch and brake units can be isolated not only prevent any dust but also can reduce noise from operation. Based on special design of frictional surface, then no any adjustment to be needed.
- Can do great improvement for single operation (Intermittent) and can provide constant stopping operation over long operation period.

特殊設計長型滑導可維持長時間、高精密生產

Special Design Long Slide Guides can Keep High Precision Manufacturing over Long Operation Period

- 特殊設計六面長方形滑導可承載偏心負載，如此也可確保模具精度及延長使用壽命，採用回收潤滑系統，可防止摩擦發熱
- Special design six-sided square long slide guides can completed high endurance during eccentric loading condition. This also can improve die precision and prolong die life. Use re-circulating lubrication system, can prevent generation of heat from friction.

特殊接地面設計使安裝工事簡易

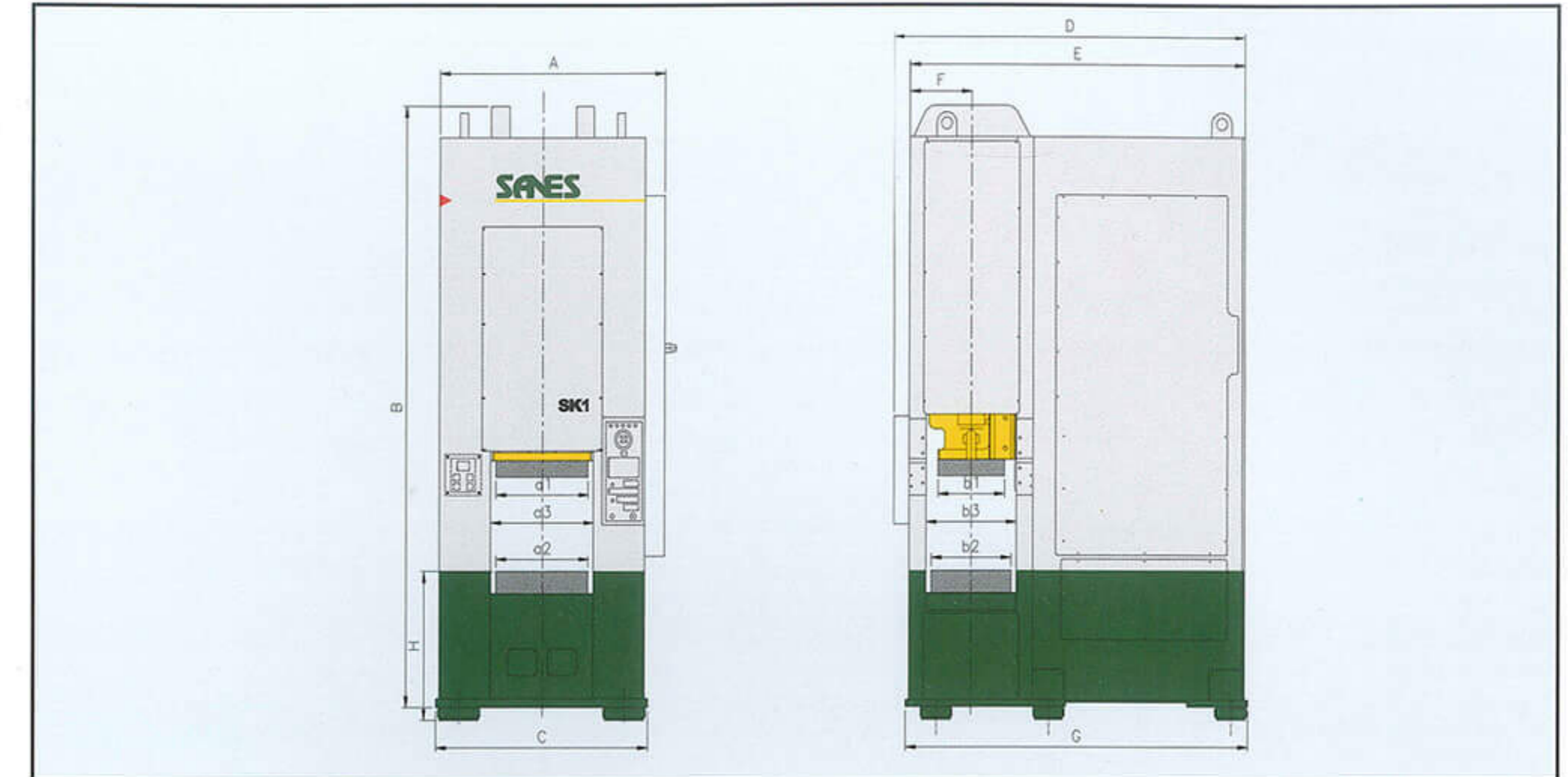
Easy Installation Based on Floor Mount Design

- 台盤頂料系統完全位於台盤內，如此使得工廠安裝工事簡易，不需任何基礎坑，如此一來，不僅可節省地基費用，也使得工廠設備配置性更多樣化。
- Completed stored in lower part of the bolster bed knockout system can let press installed on factories floor directly, no need any pit. This not only can save cost in foundation but also can make factory lay out to be more changeable.

- 申琦工業基於多年連桿沖床的技術經驗,成功研發出SK1系列-肘節式冷鍛沖床
- 經由高精密的冷鍛技術,完成了各種用途和形狀的零件.
- 高精度製品始於高精度製程.申琦將持續努力,符合客戶各種要求
- Sanes Presses bases years experience in Link Press then developed successfully SK1 series- Cold Forging Press.
- Through high precision cold forging technology, achieves various usages and shape parts. High precision parts should come from high precision procedure.
- Sanes Presses will keep on improving our machines to meet all special requirements from customers.



SK1系列規格 / Specification of SK1 series



型式/Model		SK1-400	SK1-630	SK1-1000
能力/Capacity	TON	400	630	1000
能力發生位置 (下死點上) /Tonnage Rating Point (above B.D.C)	mm	7	7	10
工作能量/Work Energy	Kgf/spm	2800/38	4400/40	10000/30
行程/Stroke Length	mm	180	220	250
每分鐘行程數/Stroke Per Minute	S.P.M	30~50	25~45	25~40
閉合工作高度/Die Height	mm	450	535	650
滑塊調整量/Die Height Adjustment	mm	50	50	50
側窗口寬度/Side Window Opening (b3)	mm	680	840	920
滑塊面積/Slide Area (a1×b1)	mm	700×500	800×600	1000×900
台盤面積/Bolster Area (a2×b2)	mm	700×700	800×800	1000×900
機架內側尺寸/Frame inside Measurement (a3)	mm	780	900	1100
工作高度/Floor to Bolster(Not including mounts) (H)	mm	1000	1130	900
機架總高度/Overall Height (B).	mm	4023	4890	6703
機架佔地面積/Floor space required(C×G)	mm	1600×2585	1850×3070	2730×4395
主馬達/Main motor	HP	40	60	100
工作空氣壓力/Air Pressure Required	Kg/cm ²	5	5	5

	A	B	C	D	E	F	G	H
SK1-400	1785	4023	1600	2655	2535	465	2585	1000
SK1-630	2010	4890	1850	3145	3025	573	3070	1130
SK1-1000	2560	6703	2730	3980	3860	830	4395	900