

YJ-8318 變頻式免底模壓底機

Frequency conversion type Bottomless mould Pressing Machine



機器簡介 Machine introduction

規格 Specification	
尺寸size	1105mm x 1285mm x 2000mm
設備淨重 Equipment net weight	1910 kg
裝機電壓/功率 Installed voltage/pow	AC380V/20A
運行電壓/功率 Operating voltage/po	AC380V/7.5A
實際耗電量 Actual power consumpti	1小時 ≤ 1度 1H ≤ 1 degree
液壓油類 Hydraulic oil	水溶性抗燃液壓油/Water-based hydraulic oil

作用原理 Principle of action

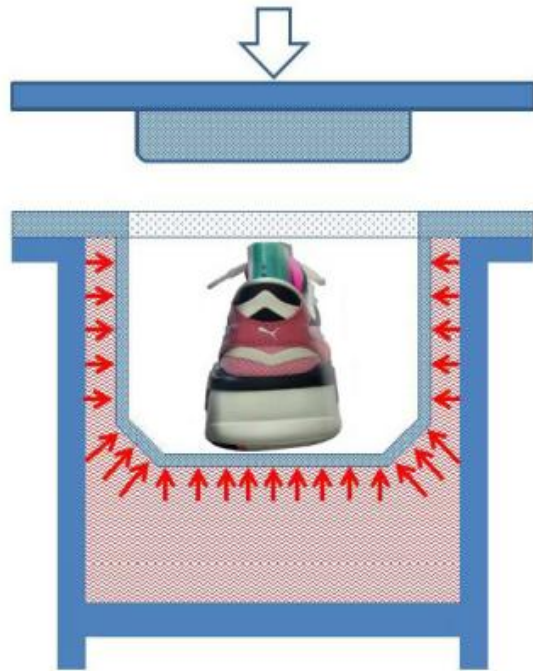
設計原理 Design principle

機構採用左右雙油壓缸雙槽體動作構造。

油壓缸槽體由橡皮皮囊 + 油壓缸體組成及上壓蓋板，

利用水性液壓油做為加壓動力，壓力調節範圍 $0 \sim 40 \text{ kg/cm}^2$ 。

The mechanism adopts the left and right double hydraulic cylinder and double trough body action structure. The tank body of the hydraulic cylinder is composed of a rubber bladder + a hydraulic cylinder body and an upper gland plate, using water-based hydraulic oil as the pressurizing power, and the pressure adjustment range is $0\text{-}40\text{kg/cm}^2$.



鞋成型壓合採用上壓蓋板固定鞋楦及鞋面，鞋底置於下部油壓缸體皮囊處，利用水性液壓油灌注入油壓缸體內， 360° 施壓作用於油壓缸體皮囊，皮囊伸張擠壓鞋子，其均勻壓著於鞋子表面，達到鞋底緊密壓合效果。

The shoe molding press uses the upper pressure cover plate to fix the shoe last and the upper. The sole is placed in the lower oil pressure cylinder skin bladder, and water-based hydraulic oil is used to infuse the oil pressure cylinder body. 360° pressure is applied to the oil pressure cylinder body bladder. The leather bladder stretches and squeezes the shoe, and it is evenly pressed on the surface of the shoe to achieve the effect of tightly pressing the sole.



水性液壓油從底部注入形成壓力，前後左右 360° 全方位加壓皮囊包覆鞋楦

Water-based hydraulic oil is injected from the bottom to form pressure, and the shoe last is covered with a 360° -degree pressurized skin bag.

特色說明 Feature Description

- 1、 免用鞋底模組底壓合，節省生產成本。
 - 2、 一機雙用，可做鞋成型加工及組底加工壓合。
 - 3、 鞋子正放，操作簡單快速。機台構型簡單，維修容易。
 - 4、 360°全方位均勻觸壓，壓力穩定精準，可減少邊牆邊角脫膠率。
 - 5、 裝置紅外線光感測器及防爆安全門、急停裝置，操作安全可靠。
 - 6、 油壓缸體皮囊可以放置空間尺寸395 x 160 x 230 mm (長 x 寬 x 高)。
 - 7、 可壓制鞋型範圍大，小尺碼的兒童鞋甚至可以一次一雙施作。
 - 8、 皮囊壽命長，常規運動跑鞋壓合次數達11萬次以上。
 - 9、 本機採用全伺服螺桿式系統控制液壓缸活塞，讓液壓缸活塞快速精準，推動抗燃水性油壓力到製鞋皮囊下模360°受壓。
 - 10、 本機採用高精度伺服系統，比傳統油泵式油缸快速精準，無油泵杜絕油耗揮發，
節能、環保、降耗、靜音、動態作業聲音約在80dB分貝以下。
 - 11、 此設備追求現代科技創新技術結構，採用積體電路、油路系統，使整套機構系統大大減少維修率，日常保養成本低。
 - 12、 本機採用無耗油式設計、設備到廠無需加油、通電即可使用！
 - 13、 用電能耗：參數一次壓力10KG保壓2S、二次壓力33KG保壓6S、
一小時240雙一度電、平均壓制一雙鞋耗電量0.0042度電。
- 1、 No need to press the sole module bottom, saving production cost.
 - 2、 One machine for dual use, can be used for shoe forming and bottom assembly processing.
 - 3、 The shoes are being placed, the operation is simple and fast. The machine has simple configuration and easy maintenance.
 - 4、 360° full contact pressure, stable and accurate pressure, which can reduce the degumming rate of side walls and corners.
 - 5、 Equipped with infrared light sensor, explosion-proof safety door, emergency stop device, safe and reliable operation.
 - 6、 The hydraulic cylinder body bladder can be placed in a space size of 395x160x230mm (length x width x height),
 - 7、 A wide range of shoe shapes can be suppressed. Small size children's shoes can even be applied one pair at a time.
 - 8、 The bladder has a long life, and the number of regular sports running shoes is over 110,000 times.
 - 9、 This equipment model uses a full-servo screw system to control the hydraulic cylinder piston, allowing the hydraulic cylinder piston to quickly and accurately push the pressure of the flame-resistant water-based oil to the lower mold of the shoe bladder under 360° pressure.
 - 10、 This model adopts a high-precision servo system, which is faster and more accurate than traditional oil pump cylinders.
The oil-free pump prevents volatilization of fuel consumption, energy saving, environmental protection, consumption reduction, quietness, and dynamic operating sounds below 80dB decibels.
 - 11、 The equipment pursues modern technological innovation and technical structure, adopts integrated circuit and oil circuit system, which greatly reduces the maintenance rate of the whole mechanism system and low daily maintenance cost.
 - 12、 The principle of this mechanism adopts a fuel-free design, and the equipment can be used without refueling and electrifying when it arrives at the factory!
 - 13、 Power consumption: parameters: primary pressure 10KG, holding pressure 2 S, secondary pressure 33KG holding pressure 6S, 240 pairs of electricity per hour, and the average power consumption of pressing a pair of shoes is 0.0042 kilowatt-hours of electricity.

適用鞋型 Applicable shoe type

適用於常規：運動跑鞋、注塑料釘足球鞋、注塑料釘棒球鞋、帆布鞋等

Suitable for regular : Sports running shoes ,plastic nailed football shoes , plastic nailed baseball shoes, canvas shoes ,etc .



鞋面材質：網布、皮革、合成革、PU皮、帆布等。

Upper material : Mesh,leather,synthetic leather ,PU leather , canvas , etc .



底部壓力測試樣品 Bottom pressure test sample ↓



壓著成效 Overwhelming effectiveness

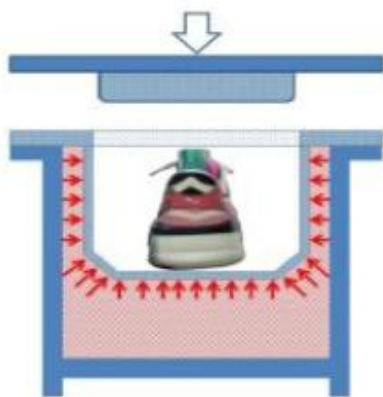
拉力測試效果 The following figure pull test effect :



鞋底壓合受力效果 Force effect



壓合原理 Principle of pressing



1. 本設備應用帕斯卡(PASCAL)原理，使缸體內的液體在加壓及保壓過程中空間的壓力都勻稱對等，橡膠軟模擠壓鞋底使之緊緊貼合。

This equipment applies the principle of PASCAL, so that the pressure of the liquid in the cylinder during the pressurization and pressure holding process is evenly equalized, and the rubber soft mold squeezes the sole to make it fit tightly.

2. 免底模設計，可節省成本。The bottom mold design saves costs.

3. 全面（360°）勻稱的施加壓力。Fully (360°) symmetrical pressure applied.

4. 施壓貼合過程中無鬆動滑脫及褶皺現象。

There is no loose slippage and wrinkles during the pressure bonding process.

5. 可節省95%以上的傳統底模費用。

It can save more than 95% of the cost of traditional counters.

鞋廠壓著成效 Overwhelming effectiveness

High top sneakers



高筒運動鞋



鞋廠壓著成效 Overwhelming effectiveness

Regular sports shoes



常規運動鞋



鞋廠壓著成效 Overwhelming effectiveness

Conventional cold glue shoes



常規冷粘鞋



鞋廠壓著成效 Overwhelming effectiveness

Ordinary sports shoes



普通運動鞋



皮囊尺寸選用 Selection of skin bag size

組底加工壓合 / 皮囊深度：選用80 mm

Bottom processing compression / skin bag depth : select 80 mm

成型鞋加工鞋底 + 楦頭總高度：160 ~ 230 mm / 皮囊深度：選用140 mm

Molded shoe processing Total height of sole + last : 160 ~ 230 mm / Skin depth : 140 mm



耗材介紹 Supplies introduction

專案 Project	原廠料號 Part No	產品名稱 product name	照片 photo	用途 use	產品規格/材質 specification	壽命 life	產品交期 Product delivery
01	YJ-8318-00101	上壓模帶護邊 Upper die with edge protection		成品鞋用 For finished shoes	430-176-135mm 橡膠rubber	6個月/200.000次 6 months/200.000 times	7-15日/day
02	YJ-8318-00102	下模 (水袋) 140mm Lower mold (water bag) 140mm		成品鞋用 For finished shoes	390-160-140mm 橡膠rubber	3個月/100.000次 3 months/100.000 times	7-15日/day
03	YJ-8318-00103	上壓模平模 Upper die flat die		組底用 Group bottom	430-176-68mm 橡膠rubber	10個月/250.000次 10 months/250.000 times	7-15日/day
04	YJ-8318-00104	下模 (水袋) 80mm Lower mold (water bag) 80mm		組底用 Group bottom	390-160-80mm 橡膠rubber	6個月/130.000次 6 months/130.000 times	7-15日/day
05	YJ-8318-00105	矽膠粒鞋頭墊枕 Silicone toe cushion pillow		成型鞋頭墊枕通用 General purpose shaped toe cushion pillow	彈力布+矽膠粒 Stretch cloth + silicone particles	3個月/100.000次 3 months/100.000 times	7-15日/day

機器規格 Machine specifications

機械尺寸 Mechanical size L * W * H	1105 x 1285 x 2000 MM
槽長 寬 / 高 Slot length /width / height	395 * 160 * 230 MM
槽蓋閉合方式 Slot cover closed method	肘節閉鎖 Toggle atresia
囊袋厚度 Capsular thickness	5 ~ 8 M M
囊袋硬度 Capsule hardness	3 5 ° / 5 5 °
囊袋規格 (以深度分) Capsule specifications (by depth)	8 0 / 1 4 0 M M
囊 袋 壽 命 Capsular life	110000次以上 (55度規格) More than 110,000 times (55 degree specification)
布袋形式 Bag form	兩片布車縫及1條彈性袋組合(不保固) Combination of two pieces of cloth stitching and 1 elastic bag (no warranty)
加壓方式 Pressure method	4631 (4 6)水乙二醇抗燃液壓油 Water glycol fire resistant hydraulic oil
壓力範圍 Pressure range	0 ~ 4 0 KG / CM 2
槽蓋鞋跟壓墊形式 Groove cover heel pressure pad form	8種，標準為橡膠平板 8 types , standard rubber plate
CE認證 CE Certification	SGS 通標標準技術服務有限公司廣州分公司 SGS General Standard Technical Service Co., Ltd. Guang zhou Branch
安全方式 Safe way	雙手操作 (無0.5秒) /光閘/連動式遮蓋 Two-handed operation (without 0.5 seconds) / shutter /linked cover
操作介面 Operation interface	人機介面 HMI
機器重量 Machine weight	1910 KG