

**NC MODE TOUCH SCREEN  
NC觸控式螢幕(TSQ)**

**CONVENTION MODEL CONTROL PANEL  
控制版面(CR系列)**



TYPE	管徑*壁厚(mm) O.D.*Wall	彎曲半徑 Range of Radius(mm)	彎曲角度 Range of Bending	馬力 Horse Power	總長度 Total Length	總寬度 Total Width	高度 Total Height	操作高度 Operating Height	重量 Total Weight	彎曲速度 Range of Bending Speed
NC-38TSQ	38*2.5	350	10°~190°	5HP	2400	1000	1025	945	990	90° 3~4/sec
NC-44TSQ	45*2.5	190	10°~190°	5HP	2450	775	990	900	1250	90° 3~4/sec
NC-50TSQ	60*4	450	10°~190°	10HP	3450	1350	1112	1016	1685	90° 5~6/sec
NC-55TSQ	60*4	300	10°~190°	15HP	3500	1340	1329	1139	2000	90° 5~6/sec
SN-80TSQ	80*5	400	10°~190°	30HP	4350	1580	1462	1132	4360	90° 7~8/sec
NC-80TSQ	80*5	400	10°~190°	15HP	4250	1280	1210	1100	3740	90° 7~8/sec
NC-100TSQ	100*6	450	10°~190°	30HP	5470	1875	1632	1280	6250	90° 10~12/sec
NC-130TSQ	130*7	450	10°~190°	35HP	6470	2100	1535	1221	9000	90° 13~16/sec
NC-150TSQ	150*5	600	10°~190°	45HP	9724	2930	2130	1412	16725	90° 14~17/sec
NC-220TSQ	220*10	800	10°~190°	50HP	12900	2850	2104	1810	21800	90° 15~18/sec

**NC MODE TOUCH SCREEN**

- 6" GREY MODE DISPLAY TOUCH SCREEN SIMPLIFIES THE MACHINE OPERATION AND FUNCTION SELECTION.
- CONTROLLED BY HIGH EFFICIENT PLC BASE, CAN STORED UP TO 200 PROGRAM OF BENDING SEQUENCE, EACH WITH MAXIMUM OF 20 DIFFERENT BENDING ANGLES.
- BENDING MOTION IS CONTROLLED BY JAPANESE MADE MICRO ENCODER, THE ANGLE TOLERANCE IS  $\pm 0.1$ .
- THE PRESSURE DIE PROVIDES BOOSTER AND REPETITION FUNCTIONS, EASY TO WORK FOR ALL KIND OF APPLICATIONS WITHOUT INTERFERENCE.
- THE COMPUTER SYSTEM CAN AUTOMATICALLY DETECT SHORTLY MALFUNCTIONING POINT TO ALLOW OPERATOR TO SOLVE PROBLEMS.
- UTILIZING THE SSR CONTROL SYSTEM, THE BENDING MACHINE IS MORE STABLE AND EFFICIENT.
- THE 2-STEP MANDREL RETRACTION WILL PRODUCE A PERFECT FINISHED PRODUCT.
- BASED ON THE TUBE DIAMETER AND WALL THICKNESS OF APPLICATIONS, OPERATOR CAN SET A DELAYED TIMING AFTER BENDING TO OBTAIN A WELL TUBE FORMING.
- ALL PROGRAMMED DATA AND BENDING PROGRAM CAN BE STORED FOR OVER 2 YEARS. INSTALLING ADDITIONAL BATTERY MAY INCREASE THE DATA STORAGE TIME.

**CONVENTION MODEL CONTROL PANEL**

- THIS TYPE OF MACHINE IS CONTROLLED BY ADVANCED AND UPGRADED ELECTRICAL CIRCUIT BOARD. IT IS SIMPLE AND HUMAN FRIENDLY FOR MACHINE OPERATOR.
- UTILIZING THE SSR CONTROL SYSTEM. THE BENDING MACHINE IS MORE STABLE AND EFFICIENT.
- BENDING ANGLE CAN BE PRE-SET FROM 1~4 ANGLES.
- INPUT DATA IS SHOWED BY 8 DIGIT LED DISPLAY.

# NC ISO-9001 認證 CE MARK 安全標誌 PIPE BENDER

## 單彎NC系列



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# 單彎管機 SINGLE-BEND PIPE BENDING MACHINE

## NC單彎管機特點

- 機種均採用油壓閥積體迴路，動作個別控制使油壓零件壽命超長。
- 三段式迴路，能兼具冷卻沈澱等作用，更可使油壓油不產生變質。
- 大型機種裝配有手動可調式數位流量調節閥，可控制進彎之速度。
- 進退彎採慢速定位，使其角度定位更為精確。
- 可設多種角度，相互輪流彎曲，而省略搬運麻煩。
- 同時兼具手動、自動功能，並附有緊急停止裝置。
- 主軸經特殊處理，機件經嚴格品檢，品質上等規格統一化，落實ISO9001及CE安規精度品檢。
- 可選擇是否通蕊。
- 快速換模，直徑模軸心設計靈活使最小彎曲半徑值不會受限制。
- 可提供各類型彎管技術，管徑203mm以下規格齊全。
- 非技術人員也能迅速的加入生產行列。

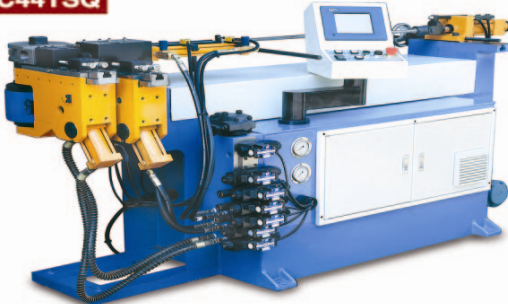
## FEATURES

- THE MACHINE ADOPTING SOLENOID VALVE AND INTEGRATED CIRCUIT TO CONTROL INDIVIDUAL BENDING MOTION SEPARATELY, WHICH CAN BE EXTEND THE LIFE OF THE HYDRAULIC PARTS.
- THREE STEPS HYDRAULIC OIL FLOW GOES THE FUNCTION OF COOLING SYSTEM TO PREVENT OIL DETERIORATION.
- LARGE MODEL BENDING MACHINE IS EQUIPPED WITH MANUAL HYDRAULIC ADJUSTING VALVE TO CONTROL THE SPEED OF BENDING MOTION.
- BENDING MOTION IS CONTROLLED BY LOW SPEED POSITIONING DEVICE TO OBTAIN THE ACCURACY OF BENDING ANGLES.
- VARIOUS ANGLES CAN BE PROGRAMMED TO WORK MULTIPLE BENDING SEQUENCE. ELIMINATING TUBE MATERIAL FEEDING/LOADING TIME.
- BOTH MANUAL AND AUTOMATIC OPERATION ARE AVAILABLE AND ALL MACHINES ARE EQUIPPED WITH EMERGENCY STOP DEVICE.
- THE MAIN SHAFT IS SPECIALLY HEAT TREATED. ALL PARTS ARE TESTED AND ASSEMBLED WITH STRICT QUALITY CONTROL TO MEET THE SPECIFICATION OF ISO 9001 AND CE STANDARD.

NC38TSQ



NC44TSQ



NC50TSQ



NC80TSQ



## NC觸控式螢幕

- 採用6吋灰階觸控式螢幕，操作極為簡便。
- 採用高效率的PLC架構，程式最高可儲存200組每組程式可設定20個不同角度。
- 進彎角度採用編碼器 (encoder)，其精準度為±0.1。
- 導模有輔助推動功能同時具備反覆進退功能可使導模長度縮短，減少干涉。
- 故障自動偵測功能使用者容易辨別機械故障原因檢修方便。
- 採用高效能SSR控制元件，使機械穩定性能提高。
- 可外接數據機，能用數據線路軟體升級和顯示機械狀況以方便日後的維護運轉工作。
- 進彎當中採二段式退蕊，使工件加工後更為美觀。
- 可依各種材質管件，設定各種動作不同之時間參數。
- 資料可儲存二年以上，並可外加電池以讓資料儲存更久。

## NC經濟型 (CR系列)

- 本機型是一般傳統電路控制之升級設計，操作簡便具人性化。
- 採用直接控制，操作迅速簡便
- 採用高效能SSR控制元件，使機械穩定性高。
- 機械提供1-4個角度。
- 畫面採用米字型LED 8位顯示器。

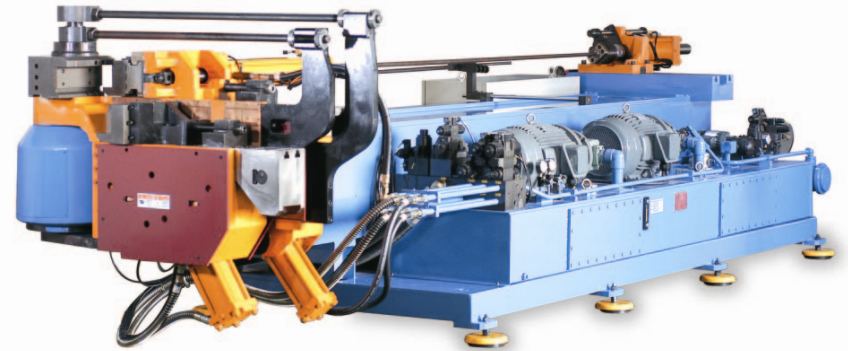
SN80TSQ



NC100TSQ



NC130TSQ



- BASED ON THE TUBE DIAMETER, WALL THICKNESS AND BENDING RADIUS, MACHINE OPERATOR MAY SELECT TO BENDING APPLICATION WITH OR WITHOUT MANDREL.
- THE BENDING-DIE SPINDLE IS SOLID ONE, WILL EASY HAVE TOOLING CHANGING, PROVIDES THE MINIMUM BENDING RADIUS 1-1.5DR.
- WE CAN SUPPLY WIDE RANGE OF BENDING MACHINES CAPABLE OF BENDING TUBE O.D. UP TO 203MM (8" DIAMETER). TUBE WALL THICKNESS UP TO 10 M/M.
- SIMPLE TO WORK AND USER FRIENDLY FUNCTIONS ALLOW NON-TECHNICIAN AND NEW OPERATOR TO JOINT PRODUCTION FORCE RAPIDLY.