

Servo Driven CNC Turret Punch Press



Servo Drive Pioneer Motorum has evolved to a new utilities

General Features

1. Accurl Turret Punch, presses are produced as a closed type rigid steel construction in to a robust structure to allow minimum deflection during operation.
2. Operating System is CNC and hydraulic.
3. Accurl Turret Punch 4 axes controlling; X, Y axes for movement of sheet, T axes: Turret rotation, C axis: Auto-index station rotation for indexing tools.
4. The 32 station Turret as to allow punching complicated, multi and different size holes parts in a single operation.
5. Auto-index stations can punch to required angle for various angle shape parts with CNC controller.
6. Precision forming and roller tools can be use on the Turret, therefore TP Turret punch provides
7. Complete solutions with effective costs.

Design to Production;

Metalix CNCCAD/CAM software offers an integrated system cover to the user which includes the complete cycle of CNC operation.

New Drive Ram Mechanism

The ram drive of SMART-SF has incorporated CFRP in the part of toggle mechanism connected directly to the servomotor making it lighter in weight and more rigid. The new drive mechanism and the replacement of the alternating movement decreases vibration by 65%. In addition, a reduction of motor heat saves energy in cooling and the resuscitation of electric energy when braking.

Standard Equipments

- 4 Axes CNC System
- ANUC PC CNC unit, servo motors and drivers
- Rexroth and HL hydraulic unit
- 32 Stations Turret 10 A Stations 16 B Stations 2 C Stations 4 D Station (2 of them Auto Index)
- Repositioning of Clamps
- Automatic reference
- CAD/CAM program
- Automatic Clamping

Optional Equipments

- Tool Adaptors
- Extra D index station
- Thin & Thick Turret Tools

Technical Parameters of Servo Driven CNC Turret Punch Press:

Item / Model		SMART-SF-20T	SMART-SF-30T
Nominal Force	kN	200	300
Max. Sheet Thickness	mm	6.35	6.35
Max. Tool Size	mm	Φ88.9	Φ88.9
Max. Sheet Size(One-time repositioning)	mm	1250×5000	1250×5000
Punching Accuracy	mm	± 0.1	± 0.1
Driving System	Drive Type	Servo V.R.	Servo V.R.
	AC Motor Power	kW	16
Max. Sheet Weight	kg	150	150
Max. Marking Rate	h.p.m	1800	1800
Max. Punching Rate (10mm stroke)	1mm pitch	h.p.m	1000
	25mm pitch		500
Max. Feed Rate	m/min	110	110
Quantity of Rotary Station		40(4)/50(2IT/2MT)	32 (2)
Rotary Station	Exchangeable Tool Type	C/D/MT6A/E	-
	Quantity of Secondary Indexing Sub-tools	12	-
Quantity of Control Shaft	pcs	6+1(X/Y1/Y2/T/C/C1/A)	5(X, Y, T, C, A)
Machine Weight	kg	16000	16000
Overall Dimensions	mm	4965×5200×2110	4965×5200×2110