

# ACCUSHAPER®

## TREPANNING HEAD



### 產品介紹

AccuShaper系列加工頭可應用在各種切割系統中，實現完全可編程的三維運動控制。AccuShaper活動範圍為X-Y-Z三個方向上各50mm的距離（可擴展），能滿足不同輪廓的加工需求。

AccuShaper具有高彈性的工作機能，既能作為一個獨立固定的工作單元，也能作為關節性機器人的工作終端，運用可替換馬達與滾珠螺桿，可為使用者量身訂做一款符合其加工要求的AccuShaper系統。

### 應用範圍

管件、板件切割

### 產品特色

- 適用於CO2雷射加工、YAG雷射加工機和光纖雷射
- Z軸方向上移動速度快且穩定性佳，縮減加工週期
- 光路密閉，防止透鏡受碎屑侵擾
- 可安裝多種加工頭

### Specifications

Clear Aperture	48 mm
Travel (X-Y-Z axes)	50 mm
Speed X-axis	75 mm/sec
Y-axis	75 mm/sec
Z-axis	400 mm/sec
Positional Accuracy	± .025 mm
Repeatability	± .01 mm
Weight	25 kg



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# Customer Interface Connections

## P1 – AC INPUT

85-264VAC, 50/60Hz, 15A

## P2 – Customer Interface

PIN	I/O	NAME	DESCRIPTION
P1-1	O	OUTPUT POWER	CUSTOMER SUPPLIED 5 - 28 VDC
P1-2	O	TIP TOUCH	MATERIAL COLLISION 1=CONTACT 0=NOT ACTIVE
P1-3	O	CABLE OKAY	HSU CABLE BREAK SIGNAL 1=OKAY
P1-4	O	CAL POINT CONFIRM	HSU CALIBRATION STATUS
P1-5	O	EDGE	HEIGHT WITHIN 4MM OF MATERIAL 1=IN RANGE
P1-6	O	HSU OKAY	HEIGHT SENSOR STATUS 1=OKAY
P1-7	O	HOLD OUT	HSU IN HOLD
P1-8	O	HOME	ALL AXIS @ HOME
P1-9	O	HSU ACTIVE	PROCESSING STATUS
P1-10	O	CYCLE COMPLETE	PROGRAM STATUS
P1-11	O	RESET	RESET STATUS
P1-12	O	AT COT	CONFIRMATION OF Z MID POSITION
P1-13	O	SPARE 1	SPARE OUTPUT
P1-14	O	SPARE 2	SPARE OUTPUT
P1-15	O	SPARE 3	SPARE OUTPUT
P1-16	O	SPARE 4	SPARE OUTPUT
P1-17	O	SPARE 5	SPARE OUTPUT
P1-18		RESERVED	
P1-19	O	OUTPUT RETURN	CUSTOMER SUPPLIED COMMON
P1-20	I	IN COM	INPUT COMMON
P1-21	I	HOLD	HEIGHT SENSOR HOLD INPUT
P1-22	I	HS/COT	CENTER OF TRAVEL INPUT
P1-23	I	LSO	LIMIT SWITCH RELEASE
P1-24	I	HOME	HOME ALL AXIS
P1-25	I	AUTOCAL	CALIBRATE HEIGHT SENSOR
P1-26	I	START	START PROGRAM
P1-27	I	SPARE 1	SPARE INPUT
P1-28	I	RESET	RESET INPUT
P1-29	I	PG1	PROGRAM SELECT BIT 1
P1-30	I	PG2	PROGRAM SELECT BIT 2
P1-31	I	PG3	PROGRAM SELECT BIT 3
P1-32	I	HS1	HEIGHT SELECT BIT 1
P1-33	I	HS2	HEIGHT SELECT BIT 2
P1-34	I	HS3	HEIGHT SELECT BIT 3
P1-35	I	SA	SERVICE ROUTINE
P1-36	I	SB	SERVICE ROUTINE
P1-37		RESERVED	

### Digital Inputs:

5 to 28VDC, 1mA min.

The inputs are configurable to be connected to either sinking or sourcing outputs depending on the connection made to the input common. The digital height select bits activate 7 standoff heights.

### Digital Outputs:

5 to 28VDC, 25mA per output

All outputs are configured sourcing.

## P3 – ETHERNET (RJ-45)

For advanced control and monitor capabilities.