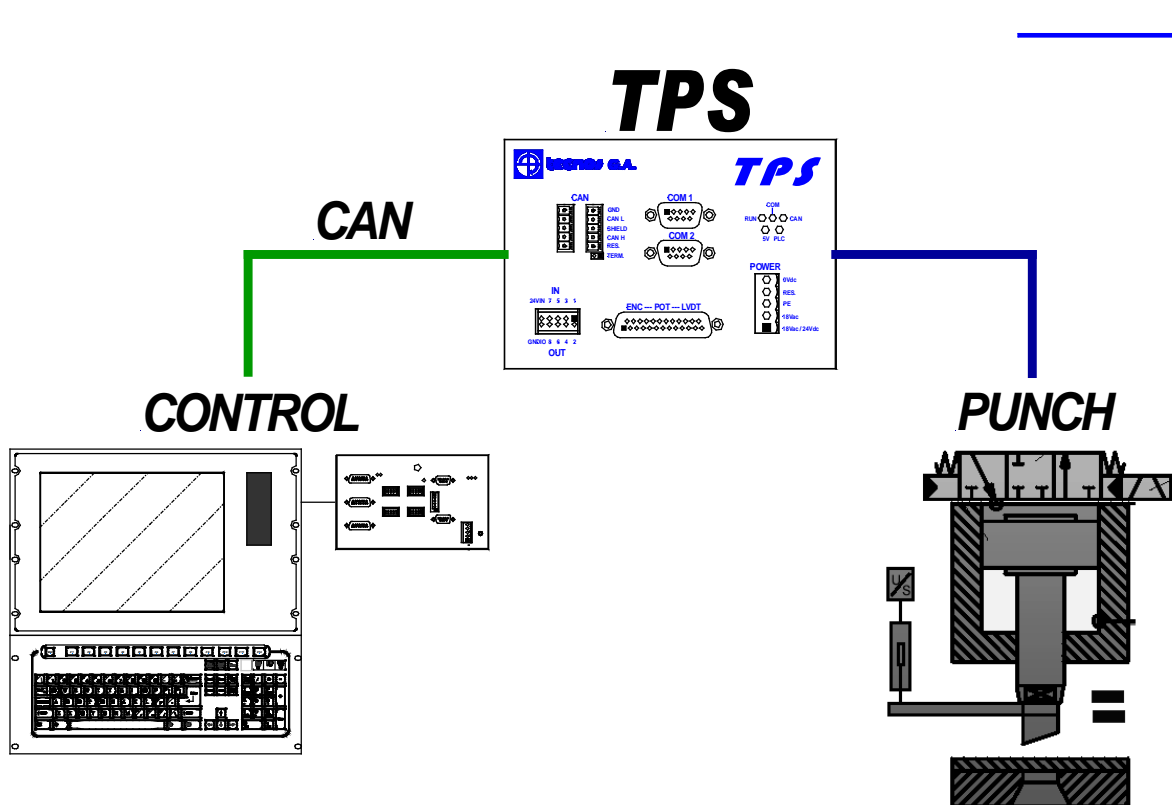


# Multifunction Punch System Board

From the long experience of the punch products, the new project want give a solution that binds performance and flexibility. The digital electronic use with a high elaboration speed allows to have good performance and to realize different cycles of job with the costumer requirements. The TSP will be a numerical control of UR050 derivation, characterized for the punch head management.

The main characteristics:

- ◆ position transducers: magnetic encoder, potentiometer, LVDT management directly from control.
- ◆ 3 electrovalve out for idraulic management with maximum current 2A. For two of these you can use the Booster option. This allows to decrease meaningfully the punch time.
- ◆ 1 PWM out to maximum current 1A for the proportional valve management.
- ◆ 1 4-20mA input to allows the pressure read form the standard transducers.
- ◆ The CN through PLC can management a maximum of 16 + 16 I/O on bus BLT.
- ◆ The dead points can be defined through the serial line and CAN line. The punch command and the ready event can be given form CAN or I/O.
- ◆ Predefined and personalizables Cycles by software.
- ◆ Resistance to the mechanical shock to can remote the card close to punch.



Cod. H4PE50XXXXX

CHARACTERISTICS	DESCRIPTION	GENERAL
	<b>NOTES</b>	
Dimensions (LxHxD)	TBD	
Installation	On DIN bar	
Weight (plus DIN bar hook)	TBD	
Operating environment	Industrial	
Protection class	TBD	
Operating temperature	From 0° to 50°C	
Operating humidity (without condense)	≤75%	
Max operating altitude	2000mt	

CHARACTERISTICS	DESCRIPTION	GENERAL
	<b>NOTES</b>	
Logical power supply	DC 24V ±10%	
Power Supply	DC 24V ±10%	
Absorption	TBD	
	<b>CPU</b>	
Microprocessor	Motorola MCF5206E with 40MHz clock	-
Working memory	Flash EPROM 1MB, parallel. 16-bit RAM 1MB 16-bit buffered	- - Buffered
	<b>INTERFACE</b>	
Serial	1 line RS232 1 line RS232/422	On DB9
Field Bus	1 CANOpen line	- DSP-DS301/401 communication protocol - on 5-pin connector – double connector
BLT Local Bus	1 line for local control of 16I+16O	
Encoder input	3 encoder inputs +5/+12V Line driver - Open collector	
Potentiometer input	0-10V with active output 10V	
LVDT input	1 input differential read Active output 2,5Khz 6mA	
Analogic input	4/20mA	
Integrated optoisolated digital inputs	4 input	$V_i < 10V = 0$ $V_i > 15V = 1$
Integrated optoisolated digital outputs	4 MOS digital outputs	$I_u \leq 0,3A$ for channel $I_{umax\ tot} < 1A$
PWM Output	VU=24V ±10% I <sub>max</sub> 1A	
UP DW electrovalve output	2 with or without booster I <sub>max</sub> 2A	
Electrovalve Output	I <sub>max</sub> 2A	
	<b>SOFTWARE</b>	
-	- Cycle predefined and personalizable by software by software	
	<b>EXPANSIONS</b>	
Tencos Module on BLT	Digital inputs, Digital outputs, Relay outputs,	Maximun number of I/O: 16IN+16OUT

