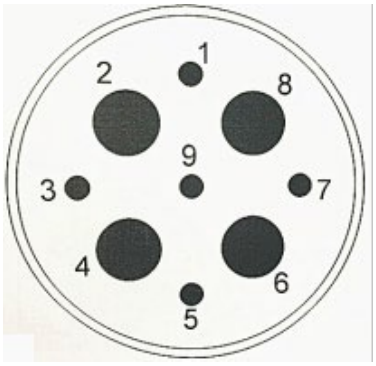
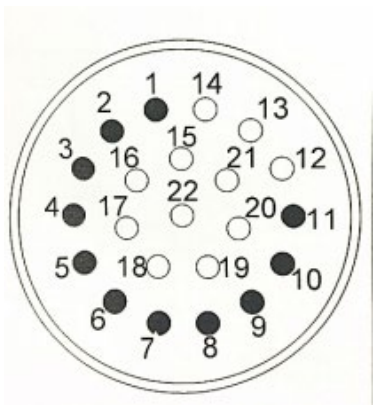
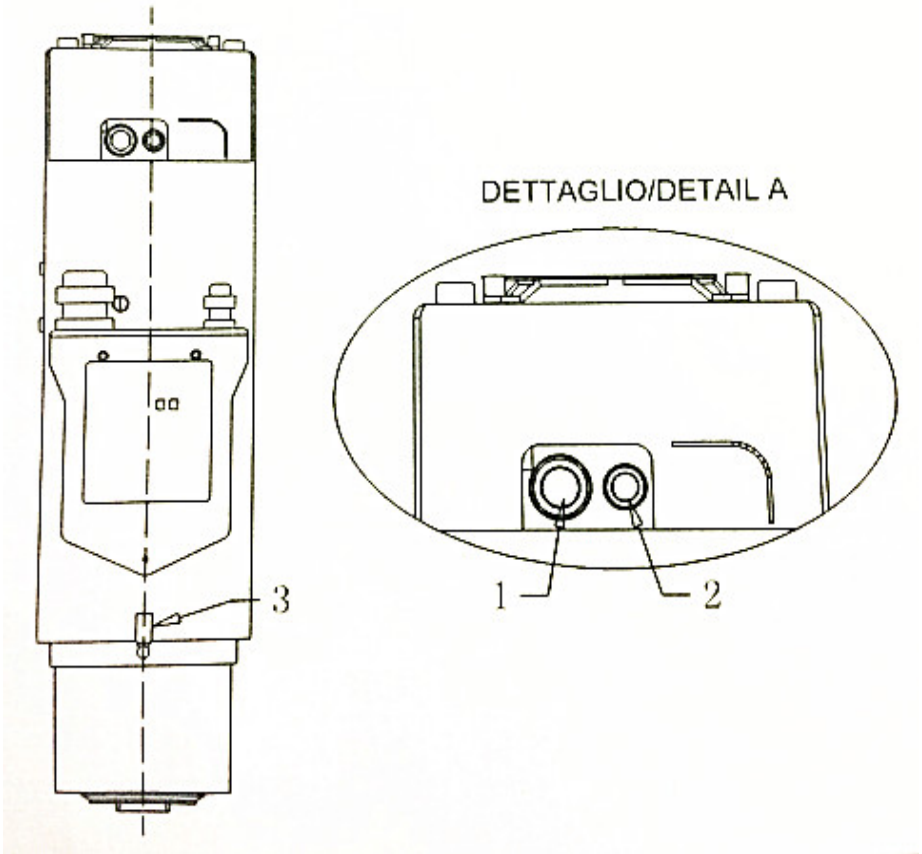
4.5KW/7.5KW Automatic tool change power wiring diagram

	1) 2 is the ground wire
	2) 4/6/8 are motor power line
	3) 3/9 are the DC12V fan power supply wiring
	1) Transducer S2 (tool pop-up) output
	2) Transducer S1 (tool lock) output
	3) Transducer S3 (spindle stop) output
	4) Provide DC24V DC power supply to S1, S2, S3
	5) Provide 24V power to Push button switch (button light)
	6) Provide 0V power supply to S1, S2, S3
	7) Provide 24V power to the push button switch
	8) Push button switch button output
	11) Provide 0V power to the button light

Note:

When the electric spindle is rotating. Transducer S3 outputs a high level and two low levels per revolution, this signal needs to be encoded by the relevant electronics unit and input to the machine control system and let the machine control system know that the electric spindle is rotating, to avoid changing the tool while the electric spindle is rotating, so that can avoid damage to the electric spindle or injury to life occurs.



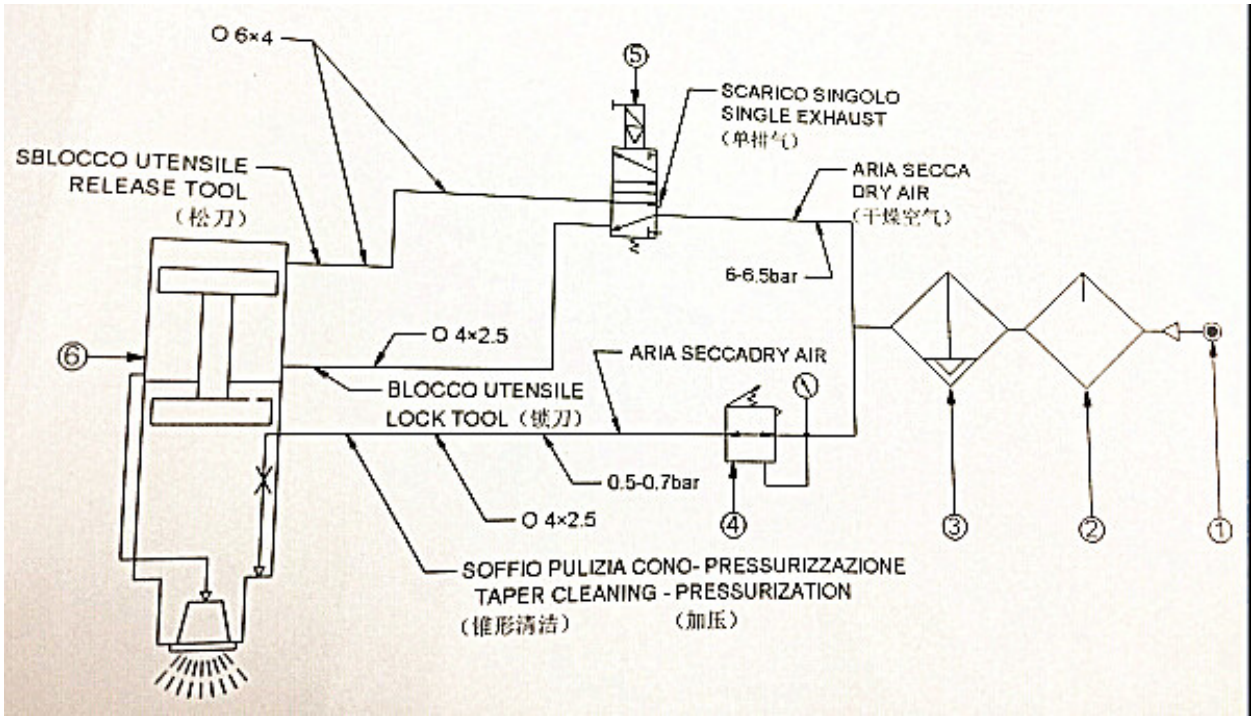
No.	Name	Functions	Pressure	Pipe diameter (outside × inside)
1	Loose Tool	Loosen the Tool Holder (provided this pressure when changing the tool)	6bar	Φ6×4
2	Broach Tool	Lock the Tool Holder (Not provide when changing tools, provided this pressure when tool is not changed)	6bar	Φ4×2.5
3	Gas seal	Please always provide this pressure	0.5bar	Φ6×4

Note:

The above compressed air must be clean and dry, free of oil, and free of water.

It is very important that the air inlet 2 must be ventilated when the electric spindle is energized and rotated.

Air cylinder wiring diagram



1	Factory compressed air supply
2	5-micron filtration
3	0.1-micron filtration
4	Pressure regulating switch
5	Loose broach tool compressed air provides monostable two-position and five-port solenoid valve
6	Electric spindle