

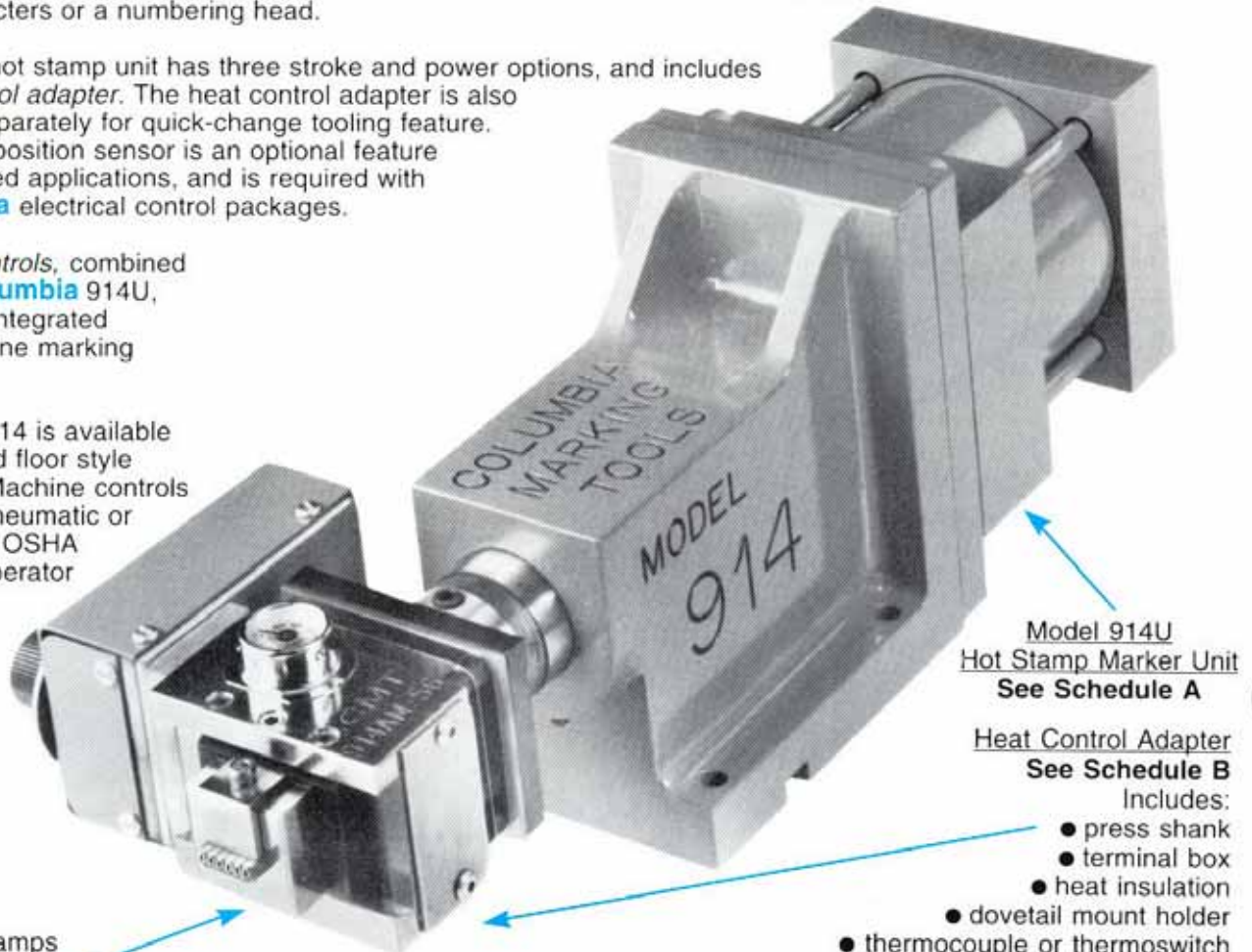
MODEL 914 HOT STAMP MARKER

Columbia Model 914, the largest of the 900 series hot stamp markers, delivers up to 1 ton of pressure. The Model 914 is ideally suited for marking applications requiring many characters or a numbering head.

Model 914 hot stamp unit has three stroke and power options, and includes a *heat control adapter*. The heat control adapter is also available separately for quick-change tooling feature. The retract position sensor is an optional feature for automated applications, and is required with all **Columbia** electrical control packages.

Modular controls, combined with the **Columbia 914U**, provide an integrated production line marking process.

Columbia 914 is available in bench and floor style machines. Machine controls are either pneumatic or electric with OSHA approved operator controls.



Model 914U
Hot Stamp Marker Unit
See Schedule A

Heat Control Adapter
See Schedule B

Includes:

- press shank
- terminal box
- heat insulation
- dovetail mount holder
- thermocouple or thermoswitch
- 3 ft of high temp. power cable
- 2 high density cartridge heaters
- may be ordered separately

Holder & Stamps
See Schedule C

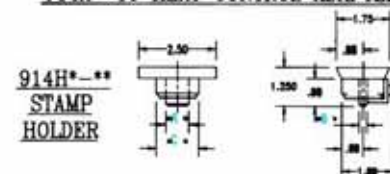
Quick-change dovetail mount *stamp holders* can be mounted and removed in seconds for fast, simple change over. Standard 914 holders use CMSH-step style hot stamps (see page 11).

Schedule C Model 914 Std Holders & Stamp Insert Capacity								
Symbol	Character Size					Dim.		
	1/16	3/32	1/8	3/16	1/4	A	B	C
914HA-75	12	8	6			0.75	0.25	1.38
914HA-100	16	10	8			1.00	0.25	1.50
914HA-150	24	16	12			1.50	0.25	2.00
914HA-200	32	21	16			2.00	0.25	2.50
914HB-75				4		0.75	0.31	1.38
914HB-100				6		1.00	0.31	1.50
914HB-150				8		1.50	0.31	2.00
914HB-200				10		2.00	0.31	2.50
914HC-100					4	1.00	0.38	1.50
914HC-200					8	2.00	0.38	2.50

Schedule B Columbia Model 914 Heat Control Adapter		
Feature	Symbol	Example
for Model 914	914A	914AJ-56
<i>Heat Sensor</i>		
J wire thermocouple monitoring*	J	
manually adjusted thermoswitch	M	
560 watt unit	56	

*for remote heat control, other thermocouples are available on request.

914A*-56 HEAT CONTROL ADAPTER



MODEL 914 HOT STAMP MARKER

HOW TO ORDER

To Order: Select only those symbols that represent marker feature required and place them in the sequence indicated by the example.

Schedule A Columbia Model 914, Hot Stamp Marker		
MODEL/FEATURE	Symbol	Example
Model 914 Hot Stamp	914	914BEC-J-10-03-0
Automation Unit	U00*	
Special Design	S*	
Bench Style Machine	B__	
Floor Style Machine	F__	
<i>Machine Controls</i>		
pneumatic controls	PC	
electric controls	EC	
electric with foil feed	EF	
<i>Heat Control</i>		
with 914AJ-56 heat control	J	
with 914AM-56 heat control	M	
none	O	
<i>Stroke</i>		
1.00" max.	10	
2.00" max.	20	
3.00" max.	30	
<i>Power</i>		
	Dim 'D'	
360 lbs. force	4.12	03
1000 lbs. force	4.88	10
2000 lbs. force (80 PSI rating)	9.76	20
<i>Position Sensor</i>		
none	O	
retract position sensor***	R	

*automation unit is offered without controls, for modular controls (see page 101).

**special designs receive a 5 digit alphanumeric code, example 914S-A1234

***2 wire, 110 V AC proximity switch, required for CMT electrical controls.

Machine controls are either pneumatic or electric (PLC). All controls include air filter, pressure regulator lubricator, and air shutoff valve with lockout.

PC, Pneumatic controls include:

- air dual anti-tie down anti-repeat palm buttons
- air valves
- pneumatic timer
- basic heat control (for use with thermoswitch)

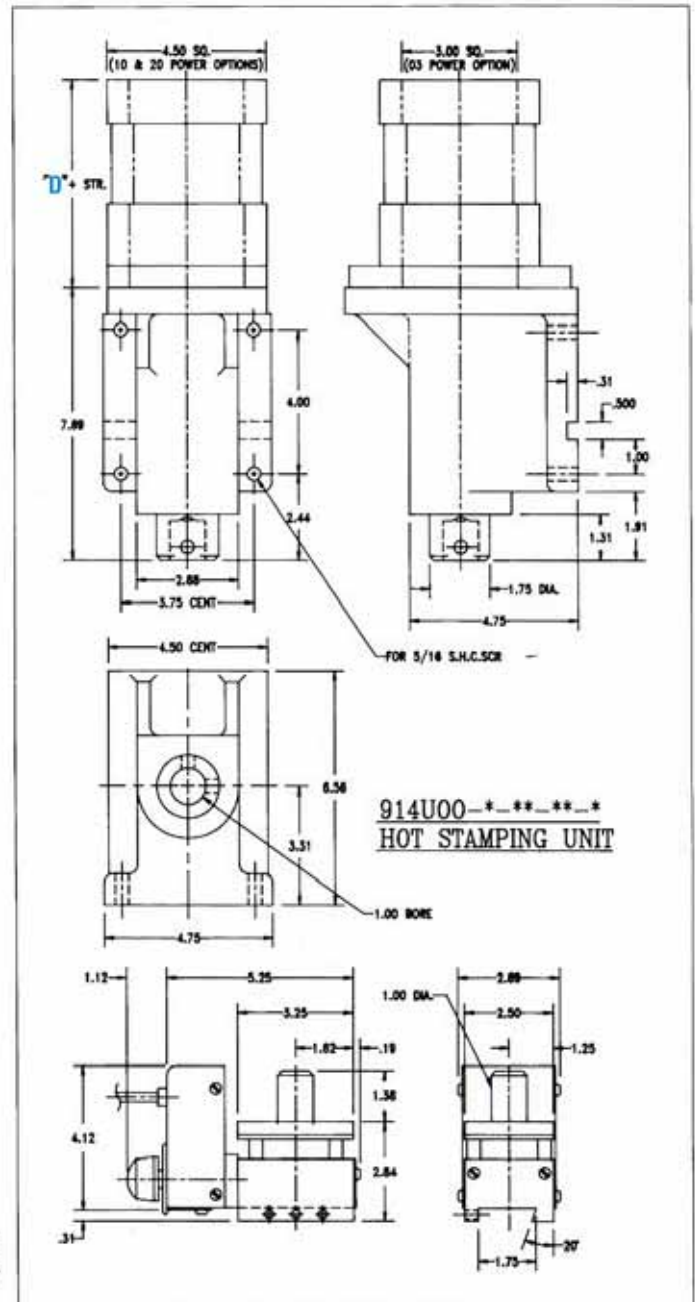
EC, Electric controls include:

- ergonomic touchless anti-tie down anti-repeat palm buttons*
- electric valves
- solid state adjustable timer
- digital remote heat control (for use with thermocouple)

In addition to the electrical control package above, **EF** includes a foil feed mechanism and controls.

*Electric palm buttons may be replaced with a part present cycle start, and pass through safety guarding

MOUNTING DIMENSIONS



For Dimension D see Schedule A
(Dimension D+(2 x STR) for power =20)

Standard Specifications:

- max. ram force - 2000 lbs
- operating pressure - 20 to 80 psi
- max. temperature - 450 degrees f
- dwll time - 0 to 20 seconds
- electrical requirements - 120 V AC
- standard imprint area - 2" x 3/8"
- (Larger sizes available on request)