



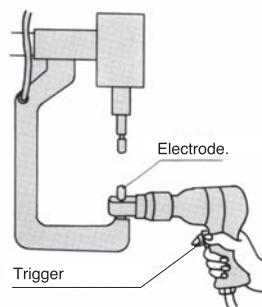
ELECTRODE TIP PULLERS

YTP series Tip Puller facilitates easy removal of end tip of the electrode spot welding machine.



YTP-113
-116
-119

YTP-113 is for $\phi 13$ Tip.
-116 is for $\phi 16$ Tip.
-119 is for $\phi 19$ Tip.



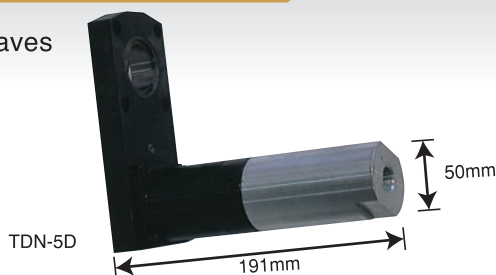
- Supply compressed air into this tool and set the regulator to appropriate level.
- Put a snap holder on taper portion of the electrode to be removed, and pull the trigger until the electrode is removed.

Model	Tip Capacity mm(in)	Blows Per min. (Approx.) B.P.M	Piston Dia.xStroke mm(in)	Overall Length (about) mm(in)	Net Weight kg(lb)	Load Air Consumption (Approx.) $\text{L}/\text{min}(\text{ft}^3/\text{min})$	Air Inlet Thread (Pipe Thread) Rc	Air Hose Size mm(in)	Air Pressure MPa(lb/in ²)
YTP-113	$\phi 13$ (1/2)	3300	14×29 (9/16×1.1)	180 (7.1)	1.4 (3.1)	400 (14.1)	1/4	6.4 (1/4)	0.6 (85)
YTP-116	$\phi 16$ (5/8)	3300	14×29 (9/16×1.1)	180 (7.1)	1.4 (3.1)	400 (14.1)	1/4	6.4 (1/4)	0.6 (85)
YTP-119	$\phi 19$ (3/4)	3300	14×29 (9/16×1.1)	180 (7.1)	1.4 (3.1)	400 (14.1)	1/4	6.4 (1/4)	0.6 (85)

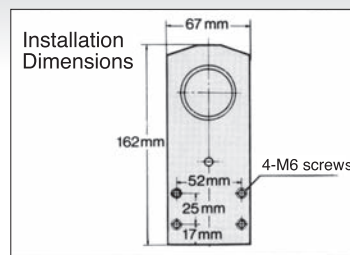
■ All models have a hose nipple and a regulator

AUTO TIP DRESSERS

It effectively rationalizes and saves energy in tip dressing work.



TDN-5D



Model	Max. Tip Capacity mm(in)	※Holder Set Size mm(in)	Free Speed (Approx.) r.p.m.	No Load Air Consumption (Approx.) $\text{L}/\text{min}(\text{ft}^3/\text{min})$	Max. Torque N·m	Electrode Force kgf (kN)	Overall Length (about) mm(in)	Net Weight kg(lb)	Air Inlet Thread (Pipe Thread) Rc	Air Hose Size mm(in)	Air Pressure MPa(lb/in ²)
TDN-5D	24 (15/16)	$\phi 30$ (1 11/64), $\phi 32$ (1 1/4)	320	700 (24.7)	44.1	30~80(0.3~0.8)	162 (6.4)	2.9 (6.4)	3/8	9.5 (3/8)	0.5 (71)

※ In case of single cutter blade, holder dimension is $\phi 30$ and $\phi 32$ ($\phi 32$ holder is optional) for cross cutter blades.

●10 series, Z Axis Floating Unit

Horizontal and center installation type (solenoid valve applied, full pneumatic actuation type). This series is applied to welding robots with higher positioning precision. It dresses upper and lower tips separately by teaching position to the welding robot without the need for a gun force switcher.

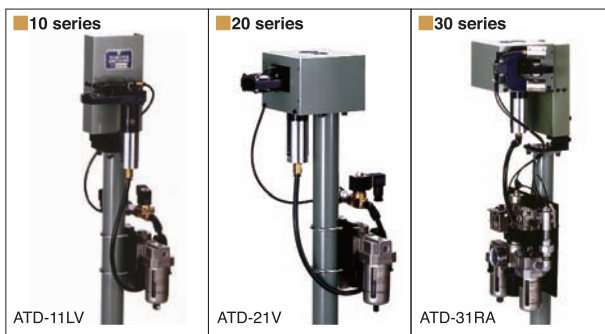
※ In case the positioning accuracy of welding robot is not very precise, please apply 30 series instead.

●20 series, X-Y Axes Floating Unit

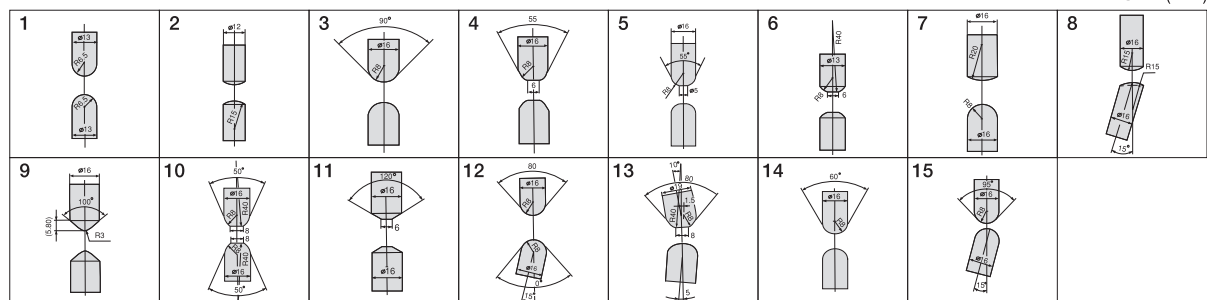
Horizontal installation type (solenoid valve applied). This series dresses both upper and lower electrode tips at one time so that it gives concentricity of both tips as well as good finish. However, a gun force switcher is required.

●30 series, X-Y-Z Axes Floating Unit

Right side directional installation type (solenoid valve applied, full pneumatic actuation type). This series dresses upper and lower tips separately by teaching position to the robot without the need for a gun force switcher. Full pneumatic actuation type initiates rotation of air motor and air blow by spot gun's press of an air limit switch. Only teaching operation is required for a welding robot. (Single cutter blade is applied.)



Dressing Shape by TDN-5D



UNIT(mm)