

A needle scaler (*) is used to clean the submersible pump.

Before

Operators previously performed the cleaning with handheld tools, but the high vibration levels required frequent worker rotation, making task management difficult. High turnover also occurred.

After

The compact arm counterbalances the weight of the tool, reducing operator strain. Tool vibration is also reduced, leading to fewer operator complaints. The use of a rotating jig allowed work to continue without a reduction in speed.

Workpiece
Weight

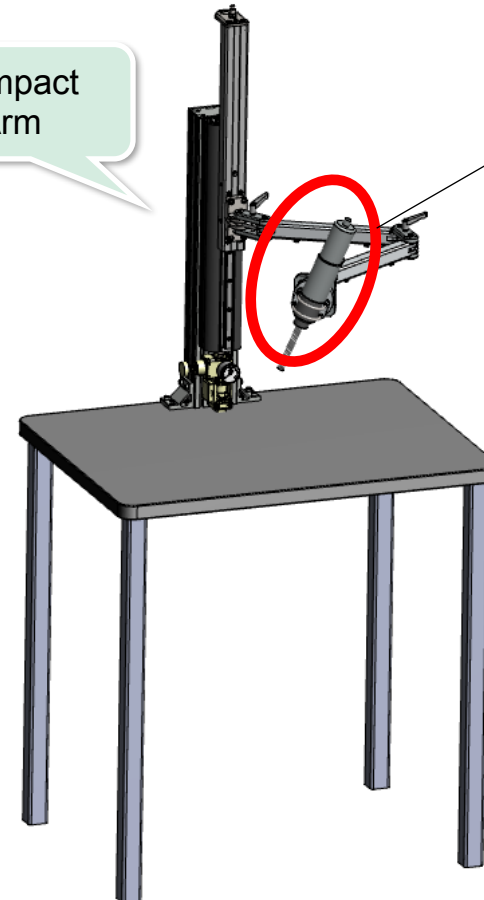
2kg

Operating
Frequency

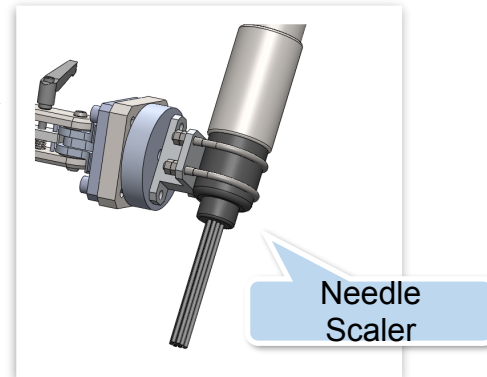
8 hours/day

Axis Configuration	CAW-L-300
Attachment	Custom Jig

Compact Arm



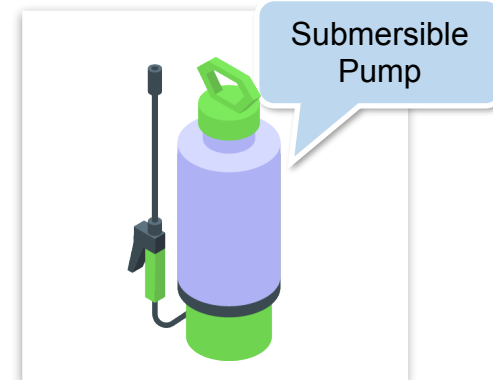
Rotating Jig + Dedicated Fixture



Needle
Scaler

* Needle Scaler: Also known as a "jet chisel," this tool uses reciprocating hardened steel needles to strike the surface and remove material.

Submersible
Pump



Point

Vibration Reduction Improvements