



# Weld Heads

Low Inertia Parallel and Opposed Gap  
Weld Heads **Data Sheet**

## SEK500

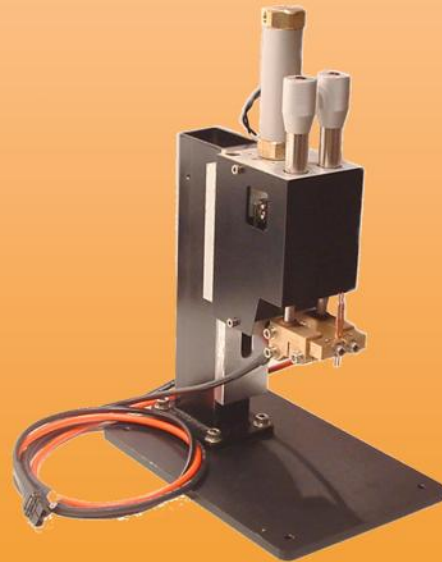
Low Inertia Parallel Gap Weld Head

- Parallel gap for battery manufacturing
- Rugged, durable construction
- Independent electrode pressure adjustment
- Four inch head travel
- Micro-switch triggers at set-point pressure
- Low inertia for fast follow-on pressure



**SEK500A**

- Air actuation

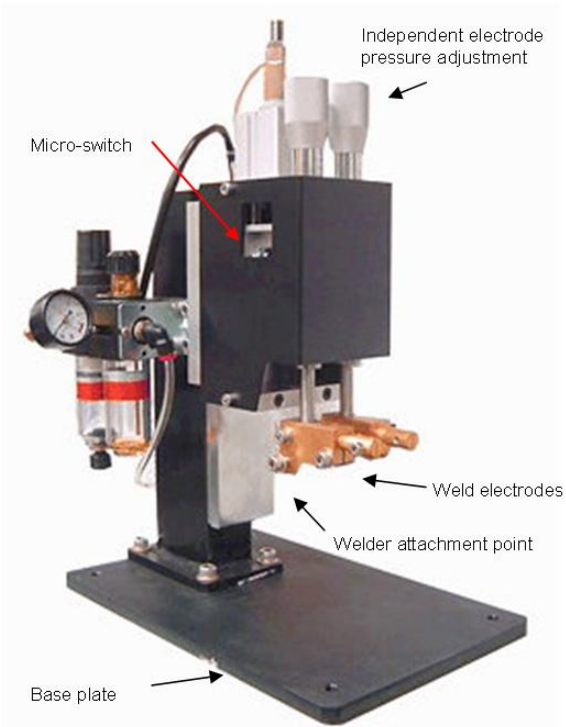


**SEK500B**

- Manual foot pedal actuation

### The SEK500 Weld Head

The SEK500 is a parallel gap weld head suitable for high volume battery pack manufacturing. The SEK500A is actuated via air and the SEK500B with a manual foot pedal. Independent electrode pressure adjustment allows fast welder setup. The SEK500 micro-switch fires when electrodes have reached the set-point pressure and is independent of head travel. This unit is durable and has an excellent track record.



**Sunstone Engineering**  
 Research and Development Corporation

[www.SunstoneEngineering.com](http://www.SunstoneEngineering.com)

1693 American Way #1  
 Phone: 801-658-0015  
 Fax: 866-701-1209

**Figure 1: SEK500 components**

**Weld Head Physical Characteristics**

<b>SEK500</b>	
<b>Actuation</b>	
Hand Lever	No
Foot Pedal	Yes (SEK500B)
Air	Yes (SEK500A)
<b>Electrode Configuration</b>	
Parallel Gap	Yes
Opposed Gap	No
<b>Force</b>	
Max lbf (N)	20 (88)
Min lbf (N)	1 (4.4)
<b>Dimensions</b>	
Electrode Diameter inch (cm)	0.125 (0.3)
Max Height inch (cm)	18 (45.8)
Max Depth inch (cm)	12 (30.5)
Max Width inch (cm)	8 (20.3)
Max Head Travel inch (cm)	4 (10.2)
Typical Head Travel Inch (cm)	1 (2.5)