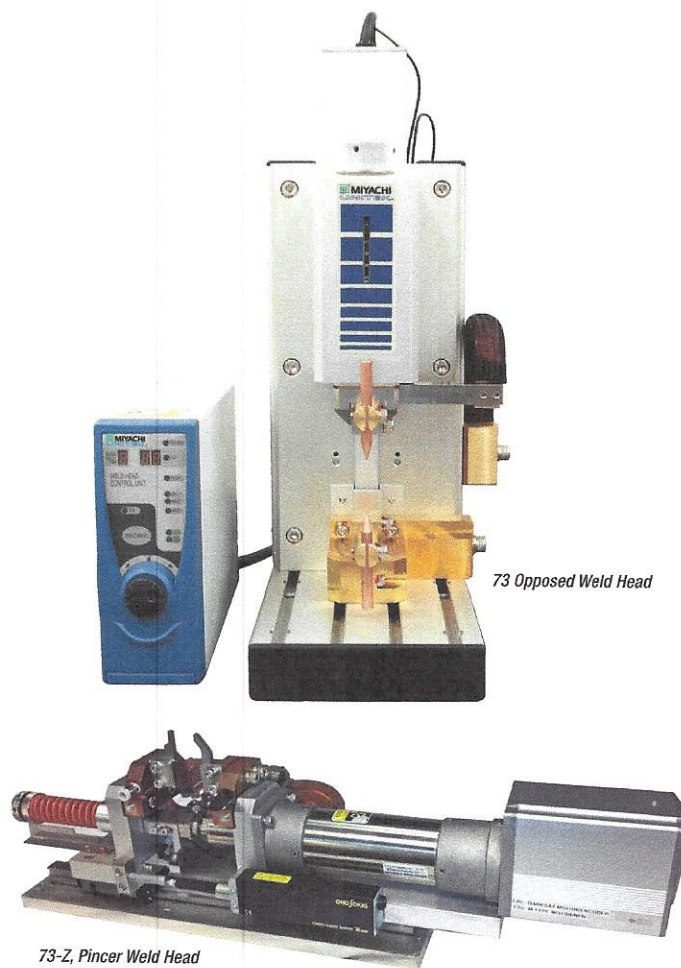


Model 73

Servo Motor Driven Weld Head

- Programmable speed and positions
- Controlled servo motor actuation eliminates overforce
- Force range 15 lbs to 110 lbs.
- Durable and robust head design
- Displacement and force options
- Remote control I/O and PC communication

Designed for use in automation or benchtop welding, Miyachi Unitek's Model 73 and Model 73-Z weld heads offer fast, repeatable electrode motion control for a wide range of resistance welding applications. The Model 73 weld head is an easy-to-program, state-of-the-art servo motor controller that allows precise programming of electrode position and speed for up to 31 different weld schedules. The 73-Z pincer weld head has self centering electrode clamping and floating mechanism to ensure the part is centered between the electrodes every time.



73-Z, Pincer Weld Head

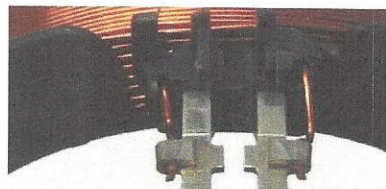
KEY FEATURES

- **Individual speed control** for "stroke to search" and "search to weld"
Good for automation – increases flexibility and throughput
- **Machine builder module** – A module option without a lower electrode or extrusion provides convenient machine mounting
- **31 schedules** – Write and save up to 31 motion schedules
- **Fast follow-up** – Less weld splash, more consistent welds
- **Overforce protection** – Ensures concise, repeatable force, less weld splash, reduced part deformation
- **Force independent of part height** – Constant applied force ensures weld repeatability
- **Easy programming** – Fast, efficient schedule adjustment
- **"Soft-touch" part clamping** – Minimizes impact force – allows verification of part alignment prior to welding

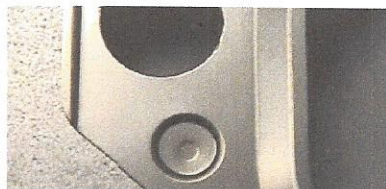
TYPICAL APPLICATIONS



Terminal connections for sensors

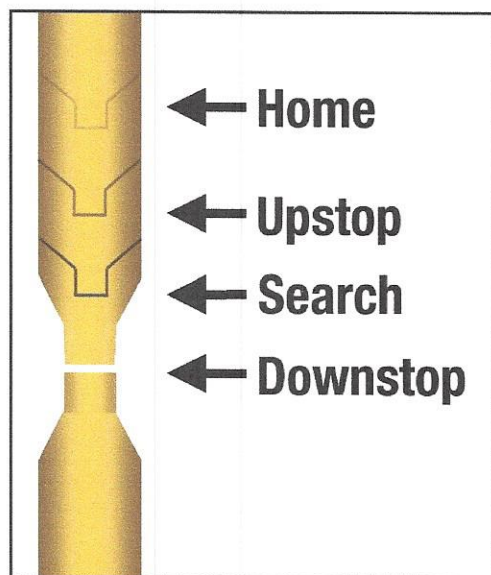


Magnet wire to tang termination



Joining of stamped sub-assemblies

SERVO MOTOR DRIVEN WELD HEAD



Programmable Electrode Positions – ACCURATE TO .004"

- The "Home" position allows for easy access during maintenance.
- The electrode is in the "Upstop" position in the "Ready" state.
- The first level of the footswitch moves the electrode down to the "Search" position at a programmable "Soft-touch" speed.
- The second level of the footswitch applies the pre-set welding force, with no overforce.
- The programmable "Downstop" inhibits welding if parts are not present.

SPECIFICATIONS

Model Number	73 Head/73-Z Head
Force Range Lbs.	15-110
Weld Force Method	Spring force setting
Actuation Method	Servo motor
Electrode Stroke Inches	1.75
Throat Depth Inches (mm)	3.9 (100) / N/A
Number of Schedules	31
Electrode Speed	Start point to Mid point - 8 selectable speeds by schedule (20-125mm/s) Mid point to Weld point - 4 selectable speeds by schedule (5 - 30mm/s)
Squeeze Time Setting	10 settings(0,10,20,30,40,50,60,70,80,90,100ms)
Hold Time Setting	8 settings (100,200,300,400,500,1000,2000ms,external END signal)
Power Supply	100-240VAC $\pm 10\%$, 50/60Hz
Welding Current	7500A
Weight Lbs.	Head: 35.2, Controller: 6.6



AMADA MIYACHI AMERICA, INC.

1820 S. Myrtle Ave. • P.O. Box 5033
Monrovia, CA 91017-7133 US
T: (626) 303-5676 • F: (626) 358-8048
info@amadamiyachi.com • www.amadamiyachi.com
ISO 9001 Certified Company • 24/7 Repair Service: 1-866-751-7378

MIYACHI | MIYACHI | MIYACHI
UNITEK | PECO | EAPRO

Amada Miyachi America Midwest Sales Office:
50384 Dennis Ct., Wixom, MI 48393
T: 248 313 3078 • F: 248 313 3031
midwestsales@amadamiyachi.com

Amada Miyachi America Mexico Sales Office:
5959 Gateway West, Ste 327, El Paso, TX 79925
T: (915) 881-8765
mxsales@amadamiyachi.com

Amada Miyachi Co., Ltd.
200 Ishida, Isehara
Kanagawa, 259-1196 Japan
T: +81-4-7125-6177

Amada Miyachi Shanghai Co., Ltd.
Room 01, 15th Floor, SML Center, No.610 Xujiashui Rd
Huangpu District, Shanghai 200025, CN
T: +86-21-6448-6000 • F: +86-21-6448-6550
zqzhang@msc.miyachi.com

Amada Miyachi Europe GmbH
Lindberghstrasse 1 • DE-82178 Puchheim
T: +49 (0) 89 83 94 030 • F: +49 (0) 89 83 94 0310
info@amadamiyachi.eu

Amada Miyachi do Brasil Ltda.
Av. Ceci, 608 – Bloco 16B – Empresarial Tamboré,
06460-120, Barueri, SP, BR
T: +55 (11) 4193-1187 • antonio.ruiz@miyachi.com

follow us on:



Specifications subject to change without notice. Copyright © 2015 Amada Miyachi America, Inc. The material contained herein cannot be reproduced or used in any other way without the express written permission of Amada Miyachi America, Inc. All rights reserved.

Your Local Amada Miyachi Representative: