

Weld head series



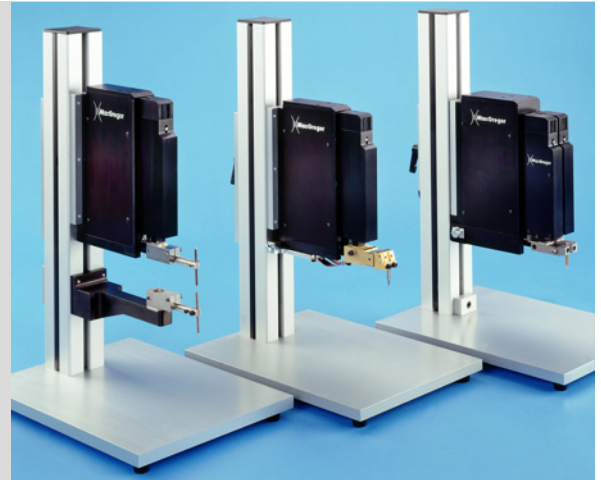
Precision modular opposed and parallel gap weld heads

The modular weld head system offers flexibility, simplicity and high performance for micro joining applications.

The precision ultra low inertia weld head modules can be used standalone mounted on third party application product or may be supplied as bench mounted units either with fixed or variable height back supports.

A large range of custom and standard electrode holders are available to suit almost any application.

The precision modules combine an integral force adjustment control with options to fit force and displacement monitoring transducers for use with process feedback based power supplies.



Integrated Head options :

- Opposed electrode - Pneumatic or manual
- Twin (Parallel gap) electrode - Pneumatic or manual
- High Force opposed - Pneumatic

Weld Head Module Options :

- Standard module - 2 - 70N force range
- Mini module - 2 - 50N force range
- High Force module - 10 - 500N force range



Weld Head Modules

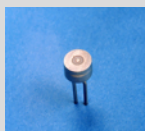


Module benefits

- Very low inertia delivers fast process response and rapid settling.
- Suits all drive systems : motor, pneumatic, manual.
- Proven, rugged design ideal for automation.
- Narrow footprint permits high density mounting in confined areas
- Options for force and displacement sensing

Typical Applications

- Automotive components
- Hot staking and crimping
- Solar cell assembly
- Lamp manufacture
- Conductive material welding
- Contact welding
- Micro circuit welding
- Sensor and component welding
- Thermode staking applications
- Battery tab & pack assembly
- Gold ribbon welding



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Standard Specifications

INTEGRATED WELD HEADS*	Force range	Stroke	Compression
Manual Opposed Weld Head	2 -70N	25mm	10mm
Pneumatic Opposed Weld Head	2 -70N	25mm	10mm
Manual Twin (Parallel Gap) Weld Head	2 -70N	25mm	10mm
Pneumatic Twin (Parallel Gap) Weld Head	2 -70N	25mm	10mm
Pneumatic High Force Opposed Weld Head	10 -500N	25mm	6mm
WELD HEAD MODULES	Force range	Dimensions WxDxH(mm)	Compression
Single standard module*	2 - 70N	25x50x179	10mm
Twin standard module*	2 - 70N	55x60x179	10mm
Single mini module	2 - 50N	15x50x75	8mm
Twin mini module	2 - 50N	35x60x75	8mm
High Force module*	10 - 500N	25x60x115	8mm

* Process monitoring - All integrated weld heads, standard and high force modules have options for force and displacement transducers.

The MacGregor Weld Head Range



Weld by wire™

The Mach1 is an electronic servo controlled head that delivers programmable force, velocity and displacement for high integrity and automatic applications.

Constant Force

The constant force head is specifically designed for fine, low force applications.

The unit has electronic over force protection.



Accessories & service

MacGregor Systems has a worldwide network of support services and offers a wide range of stock and custom welding electrodes and accessories. Our dedicated engineering team are able to tailor custom weld heads to customer specific applications and are always pleased to discuss your requirements.



Representative / Distributor

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