

# Spot, projection and seam welding machines



## Standard machines

They are reflecting 15,000 days of experience in design and manufacture!

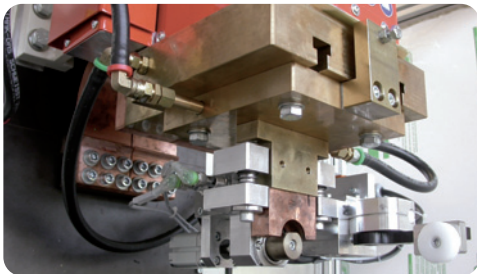
- robust + well-proven
- in alternating current and mid frequency versions
- individually configurable
- large range of accessories

NIMAK GmbH:

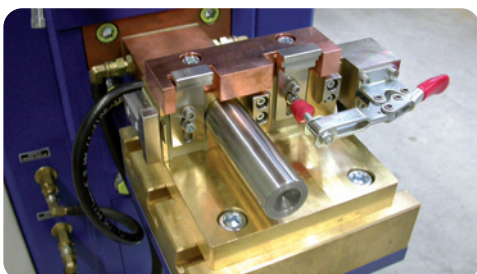
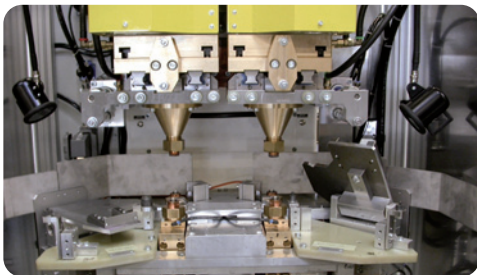
# Standard welding machines

Standard welding machines

- Table welding machines
- Spot welding machines
- Projection welding machines
- Seam welding machines



Standardmaschinen mit  
Sonderschweisswerkzeug



More than 40 years of experience in design and manufacture are reflected in our standard welding machines. Everything is there, from the entry level model right through to the top model for industrial mass production – with a choice between table or stand version and including a large range of accessories.

Solid base frames guarantee long service lives and high capacities. Thanks to modular design each machine is individually adaptable to the respective welding task and can be produced quickly and economically by using prefabricated modules. That means shortest delivery times and highest flexibility.

A stock machine is not enough, but a large special machine exceeds your budget?

We offer you an economical solution: the combination of a standard, spot, projection, or seam welding machine with a special welding tool. The robust welding machine construction serves as a basis – our decades of experience flow into the product specific solution.

### Transformer manufacture in our house

Even the core of each welding machine – the transformer (in AC or MF) is developed and manufactured by NIMAK. Thanks to a large stock of sheets and coil wires we are able to produce various kinds of transformer types by our own which also results in shortest delivery times.



Our production range covers individually developed special transformers up to high volume standard transformers according to ISO standard.

Low heating, high short-time capacity and extremely high electric strength are signs of their excellent quality.

### Quality is our maxim

For us quality is conformity of target and performance which means to meet the customers's as well as our own demands and expectations regarding our products. We regularly are awarded prizes for our high quality and we are enjoying an excellent reputation – certainly not without any reason.

During manufacture a welding machine passes various production lines after planning and design layout while qualified employees keep records about each step and guarantee for highest quality.



### NIMAK Welding laboratory

Our highly-motivated technicians appreciate your challenging welding jobs.

In our well-equipped welding laboratory we carry out welding tests with samples provided by customers, develop prototypes and test them.

The welding parameters identified provide important basics for the planning process of your machine.

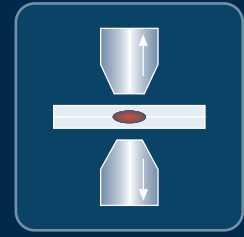
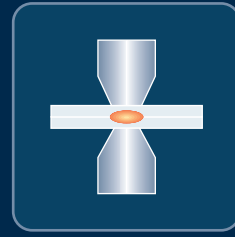
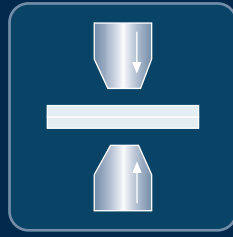


### Test facility

Each machine is undertaken a test according to defined guidelines before leaving our house.

Adherence of standards and values is monitored and reported.

Our test facility is part of our quality assurance for documentation of our high quality level and delivery of first-class products.



## NIMAK Table Spot and Table Projection Welding Machines:

# Minimum size for precision



Table welding machines for fine and precise spot or projection welding | Many work steps require extremely fine and exact processing with smallest parts like contacts, plugs, etc. in sitting position.

Therefore, we offer you our spot and projection welding machines in small table versions mounted on a work plate. A compact design and a solid base frame serve for safe grounding.

You have a choice between AC and MF version.

### Technical details:

- water-cooled
- single stroke cylinder
- mounted air service unit
- one cylinder chamber disengageable
- machine table with edgewise mounted deposit plates
- pedal switch (spot welding machines)
- two-hand start console front built at the press table (projection press)

Type	TPMP 2	TPMP 5	TBMP 5
Nominal rating (at 50 % ED)	8 - 14 kVA	36 kVA	36 kVA
Max. welding current	8,2 - 11,2 kA	26 kA	26 kA
Electrode force	35 - 210 daN	40 - 550 daN	40 - 550 daN
Electrode stroke	25 mm	75 mm	75 mm
Throat	150 mm	295 mm*	200 mm

\*(200 + 95mm front built)



NIMAK Spot welding machines:

## Welding quality put on the spot

**Quality machines for spot welding** | The stand versions of our spot welding machines are available in AC and MF technique as well.

Due to modular design the machines are configurable to every welding job.

Solid warp resistant base frames serve for optimal grounding.

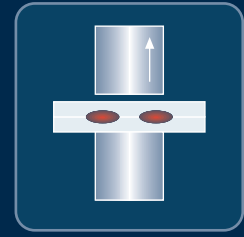
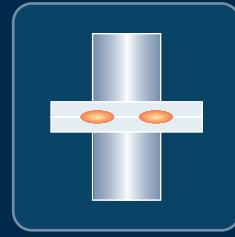
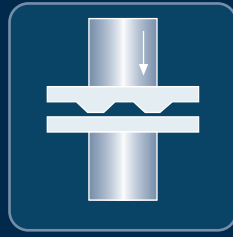
Welding heads are actuated either pneumatically or by servo motors.



### Technical details:

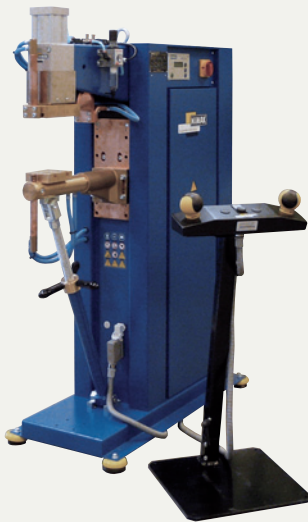
- water-cooled
- separately adjustable cooling cycles with passage and temperature monitoring (PMP 6, PMP 11)
- infinitely variable throat (great arm distances possible)
- adjustable electrode forces (step switch)
- air service unit and pressure manometer
- PMP6-ECO: pneumatically actuated tandem cylinder with outstanding set back
- choke valves for smooth touch-down of electrodes

Type	PMP 2-1	PMP 5-1	PMP 6	PMP 11
Nominal rating (at 50 % ED)	15 -35 kVA	60 kVA	80 - 160 kVA	80 - 250 kVA
Max. welding current	10 -15 kA	22 kA	bis 52,8 kA	bis 74 kA
Electrode force	200 daN	300-500 daN	140 - 900 daN	90 - 1600 daN
Electrode stroke	6 - 50 mm	60 mm	100 mm	100 mm
Throat	400 mm	430 mm	250 - 1050 mm	250 - 1050 mm



NIMAK Projection welding machines:

## Machines for any projection



If welding nut, ring projection or flange – NIMAK machines weld any kind of projection | Especially projection welding requires an absolutely top quality and warp resisting base frame. Thus a constant pressing force can be guaranteed for the total welding range which results in perfect projection welding.

Thanks to completely welded base frames in steel construction and solid press tables with T grooves for adapting the projection welding equipment NIMAK machines fulfill these requirements in an extremely high degree.

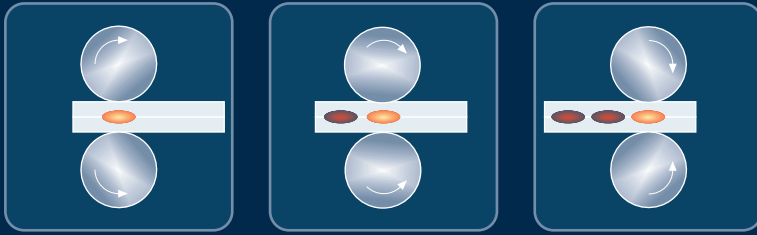
You have a choice between alternating current and mid frequency version just as between pneumatic and servo motor actuators.



### Technical details:

- water-cooled
- adjustable electrode force (including electrode force and main switch)
- mounted air service unit
- separately adjustable cooling cycles with passage and temperature monitoring
- two-hand start console at press table or separate stand
- pneumatically actuated tandem cylinder with outstanding set back
- choke valves for smooth touch-down of electrodes

Type	PMP 5-1/ Mini	BMP 6	BMP 20
Nominal rating (at 50 % ED)	60 kVA	80 -160 kVA	80 - 250 kVA
Max. welding current	22 kA	bis 52,8 kA	bis 84 kA
Electrode force	300 - 500 daN	140 - 1600 daN	170 - 3000 daN
Electrode stroke	60 mm	100 mm	100 mm
Throat	350 + 80 mm	250 - 550 mm	250 - 550 mm



## NIMAK Seam welding machines: They hold tight

NIMAK Seam welding machines for tight seams | We deliver seam welding machines in cross and longitudinal seam versions with one or both rollers driven.

As for all our machines we offer you a choice between alternating current and mid frequency technique as well as pneumatical and servo motor welding actuators.

Solid and warp resistant base frames serve for optimal stability.



### Technical details:

- water-cooled
- hydraulically adjustable arm distance
- infinitely variable throat (great arm distances possible)
- adjustable electrode force (step switch)
- air service unit
- separately adjustable cooling cycles with passage and temperature monitoring
- choke valves for smooth touch-down of electrodes

Type	NMP 7	NMP 12
Nominal rating (at 50 % ED)	80 - 160 kVA	160 - 250 kVA
Max. welding current	29,6 kA	45,6 kA
Electrode force	145 - 860 daN	200 - 1200 daN
Electrode stroke	100 mm	100 mm
Throat	550 - 750 mm	550 - 750 mm



All our business units are subject to a quality management system in accordance with DIN EN ISO 9001 and an environmental management system in accordance with DIN EN ISO 14001.

Your local partner:



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