akwa TECHNIC

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EUROPEAN QUALITY · MANUFACTURED IN TÜRKIYE

Standard Machines Catalogue

Spot, projection, seam and butt welding machines, welding transformers, control units and cooling systems – with model-by-model technical data.



RESISTANCE WELDING MACHINES · 12 – 350 KVA

AKWATECHNIC.COM

STANDARD MACHINES CATALOGUE

Find the right machine.

This catalogue presents our series-produced standard resistance welding machines and welding equipment with model-by-model technical data. All machines are built in our fully integrated facility in Bursa; transformers, copper busbars and the specially guided, high-force pistons are manufactured in-house.

Spot Welding

Fixed-arm, table-type, rocker-arm and foot-operated spot welders.

12 – 60 kVA · Microprocessor · 4 families

Projection Welding

AC and MFDC projection presses for nuts, bolts and embossed parts.

60 – 350 kVA · AC / MFDC · 15 models

Seam Welding

Longitudinal and transverse seam welders for leak-tight continuous seams.

60 – 350 kVA · AC / MFDC · 20 models

Butt Welding

Pneumatic and mechanical butt welders for wire, profile and tube; profile corner welders.

12 – 350 kVA · AC / MFDC · 15 models

Welding Equipment

AC/MFDC welding transformers, welding control units and R&W TECH MF inverters.

12 – 350 kVA · 300 – 12 000 A · 3 families

Cooling Systems

Closed-loop chiller coolers with integrated pump and tank.

3,000 – 100,000 kcal/h · 10 models

HOW TO READ THE TABLES

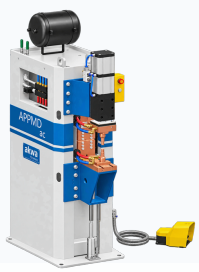
- **50% DT / DC** – AC machines are rated at 50% duty cycle.
- **20% DT / DC** – MFDC machines are rated at 20% duty cycle.
- **V2 / I2P** – Secondary no-load voltage and permanent secondary current (MFDC).
- Welding capacities are given for mild steel; ask our engineers for weld schedules on coated or stainless material.
- Values refer to the typical production configuration; custom powers and designs are available.

STANDARD EQUIPMENT

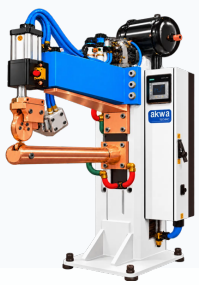
- Microprocessor welding control unit with stored programs
- Water-cooled welding circuit; air- or water-cooled transformer
- Air conditioning unit, pressure regulator and foot pedal
- CE conformity; 400 V · 50/60 Hz supply (MFDC: 500 V · 3-phase)
- Custom power ratings, arm lengths and designs on request



SPOT



PROJECTION



SEAM



BU


TRANSFORMER



SPOT WELDING

Spot Welding Machines

APF series

Pneumatic, microprocessor-controlled, water-cooled fixed-arm spot welders. AC 20, 30 and 60 kVA; short-arm (SA) and long-arm (LA) versions with 260–450 mm arm length.

WELDING CAPACITY

- Steel sheet: 0.4+0.4 / 3+3 mm
- Stainless sheet: 0.4+0.4 / 3+3 mm
- Steel wire: Ø2+Ø2 / Ø8+Ø8 mm
- Aluminium sheet: 0.5+0.5 mm
- M4–M8 nuts and bolts

OPTIONS

- Blade electrode
- S-type electrode
- Two-hand control system
- Custom power and arm length

AC MODELS

AC	APF20SA ac	APF20LA ac	APF30SA ac	APF30LA ac	APF60SA ac	APF60LA ac
Rated power (%50 DT)	20 kVA	20 kVA	30 kVA	30 kVA	60 kVA	60 kVA
Secondary voltage	5 V	5 V	5,9 V	5,9 V	7,1 V	7,1 V
Short-circuit welding current (max)	20 kA	17 kA	23 kA	21 kA	25,5 kA	23,5 kA
Arm length	260–450 mm	260–450 mm	260–450 mm	260–450 mm	260–450 mm	260–450 mm
Stroke width	100 mm	100 mm	100 mm	100 mm	100 mm	100 mm
Piston diameter	Ø 63 mm	Ø 63 mm	Ø 80 mm	Ø 80 mm	Ø 80 mm	Ø 80 mm
Electrode pressure force (6 bar)	180 daN	180 daN	300 daN	300 daN	300 daN	300 daN
Cooling water inlet flow rate (min)	7 lt/min	7 lt/min	8 lt/min	8 lt/min	10 lt/min	10 lt/min
Transformer cooling type	Air / Water	Air / Water	Air / Water	Air / Water	Air / Water	Air / Water
Weight	240±30 kg	270±30 kg	280±30 kg	310±30 kg	380±30 kg	410±30 kg
Dimensions (W×L×H)	520×940×1450 mm	520×1145×1450 mm	520×950×1450 mm	520×1155×1450 mm	520×950×1450 mm	520×1155×1450 mm

Values refer to the typical production configuration; custom power ratings and designs are available. Current data sheets at akwatechnic.com.



SPOT WELDING

Table-Type Spot Welders

APT series

Pneumatic, microprocessor-controlled table spot welders. AC 12, 20, 30 and 60 kVA; 400 V, 2-phase, 50/60 Hz. A compact solution for small parts and job-shop work.

WELDING CAPACITY

- Steel sheet: 0.4+0.4 / 1.5+1.5 mm
- Stainless sheet: 0.4+0.4 / 2+2 mm
- Steel wire: Ø2+Ø2 / Ø8+Ø8 mm
- Aluminium sheet: 0.5+0.5 mm
- M3–M6 nuts and bolts

OPTIONS

- Blade electrode
- S-type electrode
- Two-hand control system

AC MODELS

AC	APT12 ac	APT20 ac	APT30 ac	APT60 ac
Rated power (%50DT)	12 kVA	20 kVA	30 kVA	60 kVA
Secondary voltage	3,8 V	5 V	5,9 V	7,1 V
Short-circuit welding current (max)	14 kA	20 kA	23 kA	25 kA
Arm length	165 mm	165 mm	165 mm	165 mm
Arm spacing	40 mm	40 mm	40 mm	40 mm
Stroke	50 mm	50 mm	50 mm	50 mm
Piston diameter	Ø40 mm	Ø50 mm	Ø63 mm	Ø63 mm
Electrode pressure force	80 daN	120 daN	190 daN	190 daN
Cooling water inlet flow rate (min)	6 lt/min	8 lt/min	10 lt/min	12 lt/min
Transformer cooling type	Air	Air	Air	Air
Weight	185±30 kg	215±20 kg	235±20 kg	280±20 kg
Dimensions (W×L×H)	900×800×1240 mm	900×800×1240 mm	900×800×1240 mm	900×800×1240 mm

Values refer to the typical production configuration; custom power ratings and designs are available. Current data sheets at akwatechnic.com.



SPOT WELDING

Rocker-Arm Spot Welders

APR-P series

Pneumatic, microprocessor-controlled rocker-arm spot welders. Water-cooled welding circuit with air-cooled transformer; 500 mm standard arm and 550 daN electrode force.

WELDING CAPACITY

- Steel sheet: 0.4+0.4 / 3+3 mm
- Stainless sheet: 0.4+0.4 / 2+2 mm
- Steel wire: Ø2+Ø2 / Ø8+Ø8 mm

OPTIONS

- S-type electrode
- Custom arm lengths

AC MODELS

AC	APR12P ac	APR20P ac	APR30P ac	APR60P ac
Rated power (%50DT)	12 kVA	20 kVA	30 kVA	60 kVA
Secondary voltage	3,8 V	5 V	5,9 V	7,1 V
Short-circuit welding current (max)	8 kA	10 kA	12 kA	14 kA
Arm length	500 mm	500 mm	500 mm	500 mm
Stroke	50 + 25 mm	50 + 25 mm	50 + 25 mm	50 + 25 mm
Piston diameter	Ø80 + Ø80 mm	Ø80 + Ø80 mm	Ø80 + Ø80 mm	Ø80 + Ø80 mm
Electrode pressure force	550 daN	550 daN	550 daN	550 daN
Cooling water inlet flow rate (min)	8 lt/min	10 lt/min	12 lt/min	14 lt/min
Transformer cooling type	Air	Air	Air	Air
Weight	230±20 kg	250±20 kg	270±20 kg	290±20 kg
Dimensions (W×L×H)	400×1250×1300 mm	400×1250×1300 mm	400×1250×1300 mm	400×1250×1300 mm

Values refer to the typical production configuration; custom power ratings and designs are available. Current data sheets at akwatechnic.com.



SPOT WELDING

Mechanical Foot-Operated Spot Welders

APR-M series

Mechanically foot-operated spot welders with microprocessor control. APR12M and APR20M; water-cooled welding circuit, air-cooled transformer. No compressed air required.

WELDING CAPACITY

- Steel sheet: 0.4+0.4 / 1.5+1.5 mm
- Stainless sheet: 0.4+0.4 / 1+1 mm
- Steel wire: Ø2+Ø2 / Ø5+Ø5 mm

OPTIONS

- S-type electrode
- Custom arm lengths

AC MODELS

AC	APR12M ac	APR20M ac
Rated power (%50DT)	12 kVA	20 kVA
Secondary voltage	3,8 V	5 V
Short-circuit welding current (max)	8 kA	10 kA
Arm length	500 mm	500 mm
Stroke	50 mm	50 mm
Cooling water inlet flow rate (min)	8 lt/min	10 lt/min
Transformer cooling type	Air	Air
Weight	190±20 kg	210±20 kg
Dimensions (W×L×H)	400×1250×1300 mm	400×1250×1300 mm

Values refer to the typical production configuration; custom power ratings and designs are available. Current data sheets at akwatechnic.com.



PROJECTION WELDING

Projection Welding Machines

APP series · AC / MFDC

AC and MFDC projection welding presses with pneumatic actuation, microprocessor control and water cooling. AC 60–300 kVA (50% DC), MFDC 111–350 kVA (20% DC); tandem pistons up to 2250 daN.

WELDING CAPACITY

- Steel sheet: 1+1 / 10+10 mm
- Stainless sheet: 1+1 / 8+8 mm
- Steel wire: Ø4+Ø4 / Ø35+Ø35 mm
- M6–M28 nuts and bolts

OPTIONS

- PLC control and touchscreen
- Two-position piston
- Multi-piston system
- Light barrier
- Movable operator safety screen
- Custom fixtures and tooling

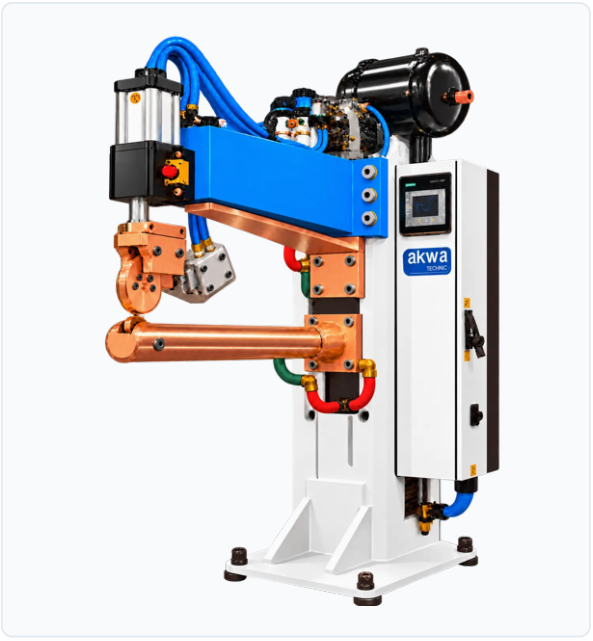
AC MODELS

AC	APP/ MN60SA ac	APP/ MN60LA ac	APP/ MN90SA ac	APP/ MN90LA ac	APP/MD120 ac	APP/MD150 ac	APP/MD180 ac	APP/MD210 ac	APP/MD250 ac	APP/MX300 ac
Rated power (%50 DT)	60 kVA	60 kVA	90 kVA	90 kVA	120 kVA	150 kVA	180 kVA	210 kVA	250 kVA	300 kVA
Secondary voltage	5,9 V	5,9 V	7,1 V	7,1 V	8,3 V	8,9 V	10 V	11,1 V	12,5 V	13,3 V
Short-circuit welding current (max)	22 kA	18 kA	25 kA	21 kA	29 kA	34 kA	40 kA	46 kA	54 kA	64 kA
Arm length	250 mm	450 mm	250 mm	450 mm	260 mm	260 mm	260 mm	260 mm	260 mm	260 mm
Piston diameter	Ø100 mm	Ø100 mm	Ø100 mm	Ø100 mm	Ø125 mm	Ø125 mm	Ø125 mm · 2 stage tandem	Ø125 mm · 2 stage tandem	Ø125 mm · 3 stage tandem	Ø125 mm · 3 stage tandem
Electrode force	470 daN	470 daN	470 daN	470 daN	750 daN	750 daN	1500 daN	1500 daN	2250 daN	2250 daN
Weight	630±30 kg	690±30 kg	670±30 kg	720±30 kg	930±50 kg	980±50 kg	1060±50 kg	1210±50 kg	1280±50 kg	1630±50 kg

MFDC MODELS

MFDC	APP/MD111SA mf	APP/MD111LA mf	APP/MD188 mf	APP/MD266 mf	APP/MD350 mf
Rated power (%50 DT)	60 kVA	60 kVA	120 kVA	150 kVA	210 kVA
Rated power (%20 DT)	111 kVA	111 kVA	188 kVA	266 kVA	350 kVA
V2	8,3 V	8,3 V	9,4 V	10,2 V	12,5 V
I2P	6 kA	6 kA	9 kA	9,5 kA	13,3 kA
Arm length	250 mm	450 mm	260 mm	260 mm	260 mm
Piston diameter	Ø100 mm	Ø100 mm	Ø125 mm	Ø125 mm	Ø125 mm · 2 stage tandem
Electrode force	470 daN	470 daN	750 daN	750 daN	1500 daN
Weight	590±30 kg	640±30 kg	630±50 kg	660±50 kg	700±50 kg
Dimensions (W×L×H)	380×1250×1980 mm	380×1450×1980 mm	380×1250×1980 mm	380×1250×1980 mm	380×1250×1980 mm

Values refer to the typical production configuration; custom power ratings and designs are available. Current data sheets at akwatechnic.com.



SEAM WELDING

Longitudinal Seam Welders

APS-L series · AC / MFDC

Longitudinal seam welders for tanks, vessels and tube bodies. AC 60–210 kVA (50% DC) and MFDC 111–350 kVA (20% DC); arm lengths from 600 to 1500 mm.

WELDING CAPACITY

- Leak-tight continuous seams
- Stainless and galvanised sheet
- Cylindrical bodies

OPTIONS

- PLC control and touchscreen
- Custom arm length
- Light curtain
- Proportional pressure regulator

AC MODELS

AC	APS60L ac	APS90L ac	APS120L ac	APS150L ac	APS180L ac	APS210L ac
Rated power (%50 DT)	60 kVA	90 kVA	120 kVA	150 kVA	180 kVA	210 kVA
Secondary voltage	7,1 V	7,1 V	8,3 V	8,9 V	10 V	11,1 V
Short-circuit welding current (max.)	20 kA	22 kA	26 kA	30 kA	33 kA	37 kA
Arm length	600–1200 mm	600–1200 mm	600–1200 mm	600–1200 mm	600–1200 mm	600–1200 mm
Cylinder diameter	Ø 80 mm	Ø 80 mm	Ø 100 mm	Ø 100 mm	Ø 125 mm	Ø 125 mm
Electrode force (6 bar)	300 daN	300 daN	470 daN	470 daN	740 daN	740 daN
Weight	790±30 kg	900±50 kg	1080±50 kg	1120±50 kg	1180±50 kg	1320±50 kg
Dimensions (W × L × H)	580 × 1200 × 2110 mm	580 × 1200 × 2110 mm	580 × 1200 × 2110 mm	580 × 1200 × 2110 mm	580 × 1200 × 2110 mm	580 × 1200 × 2110 mm
Seam speed	1–15 m/min	1–15 m/min	1–15 m/min	1–15 m/min	1–15 m/min	1–15 m/min

MFDC MODELS

MFDC	APS111L mf	APS188L mf	APS266L mf	APS350L mf
Rated power (%20 DT)	111 kVA	188 kVA	266 kVA	350 kVA
Rated power (%50 DT)	70 kVA	119 kVA	168 kVA	221 kVA
V2	8,3 V	9,4 V	10,2 V	12,5 V
I2P	6 kA	9 kA	9,5 kA	15,3 kA
Arm length	600–1500 mm	600–1500 mm	600–1500 mm	600–1500 mm
Cylinder diameter	Ø 80 mm	Ø 80 mm	Ø 100 mm	Ø 100 mm
Electrode force (6 bar)	300 daN	300 daN	470 daN	470 daN
Weight	590±30 kg	700±50 kg	880±50 kg	920±50 kg
Dimensions (W × L × H)	580 × 1200 × 2110 mm	580 × 1200 × 2110 mm	580 × 1200 × 2110 mm	580 × 1200 × 2110 mm
Seam speed	1–15 m/min	1–15 m/min	1–15 m/min	1–15 m/min

Values refer to the typical production configuration; custom power ratings and designs are available. Current data sheets at akwatechnic.com.



SEAM WELDING

Transverse Seam Welders

APS-W series · AC / MFDC

Transverse (edge) seam welders for sinks, bowls and enclosures. AC 60–210 kVA (50% DC) and MFDC 111–350 kVA (20% DC); 300 mm arm length, up to 740 daN electrode force.

WELDING CAPACITY

- Leak-tight edge seams
- Stainless sinks and worktops
- Catering equipment

OPTIONS

- PLC control and touchscreen
- Custom arm length
- Light curtain
- Proportional pressure regulator

AC MODELS

AC	APS60W ac	APS90W ac	APS120W ac	APS150W ac	APS180LWac	APS210Wac
Rated power (%50 DT)	60 kVA	90 kVA	120 kVA	150 kVA	180 kVA	210 kVA
Secondary voltage	7,1 V	7,1 V	8,3 V	8,9 V	10 V	11,1 V
Short-circuit welding current (max.)	20 kA	22 kA	26 kA	30 kA	33 kA	37 kA
Arm length	300 mm	300 mm	300 mm	300 mm	300 mm	300 mm
Cylinder diameter	Ø 80 mm	Ø 80 mm	Ø 100 mm	Ø 100 mm	Ø 125 mm	Ø 125 mm
Electrode force (6 bar)	300 daN	300 daN	470 daN	470 daN	740 daN	740 daN
Weight	790±30 kg	900±50 kg	1080±50 kg	1120±50 kg	1180±50 kg	1320±50 kg
Dimensions (W × L × H)	580 × 1200 × 2110 mm	580 × 1200 × 2110 mm	580 × 1200 × 2110 mm	580 × 1200 × 2110 mm	580 × 1200 × 2110 mm	580 × 1200 × 2110 mm
Seam speed	1–15 m/min	1–15 m/min	1–15 m/min	1–15 m/min	1–15 m/min	1–15 m/min

MFDC MODELS

MFDC	APS111W mf	APS188W mf	APS266W mf	APS350W mf
Rated power (%20 DT)	111 kVA	188 kVA	266 kVA	350 kVA
Rated power (%50 DT)	70 kVA	119 kVA	168 kVA	221 kVA
V2	8,3 V	9,4 V	10,2 V	12,5 V
I2P	6 kA	9 kA	9,5 kA	15,3 kA
Arm length	300 mm	300 mm	300 mm	300 mm
Cylinder diameter	Ø 80 mm	Ø 80 mm	Ø 100 mm	Ø 100 mm
Electrode force (6 bar)	300 daN	300 daN	470 daN	470 daN
Weight	590±30 kg	700±50 kg	880±50 kg	920±50 kg
Dimensions (W × L × H)	580 × 1200 × 2110 mm	580 × 1200 × 2110 mm	580 × 1200 × 2110 mm	580 × 1200 × 2110 mm
Seam speed	1–15 m/min	1–15 m/min	1–15 m/min	1–15 m/min

Values refer to the typical production configuration; custom power ratings and designs are available. Current data sheets at akwatechnic.com.



BUTT WELDING

Butt Welders

APB series · AC / MFDC

Pneumatic, microprocessor-controlled, water-cooled butt welders. AC 12, 20, 30 and 60 kVA plus MFDC 111 kVA, for butt joining of wire, profile and tube ends.

WELDING CAPACITY

- Ø2 – 12 mm wire
- Profile and tube butt welding

OPTIONS

- Custom electrode
- Custom power and design

AC MODELS

AC	APB12 ac	APB20 ac	APB30 ac	APB60 ac
Rated power (%50 DT)	12 kVA	20 kVA	30 kVA	60 kVA
Secondary voltage	3,8 V	5 V	5,9 V	7,1 V
Short-circuit welding current (max)	6 kA	7,5 kA	9 kA	11 kA
Jaw spacing	20 mm	20 mm	20 mm	20 mm
Welding jaw advancement	30 mm	30 mm	30 mm	30 mm
Electrode pressure force	120 daN	120 daN	240 daN	240 daN
Welding cylinder thrust force	190 daN	190 daN	300 daN	300 daN
Cooling water inlet flow rate (min)	6 lt/min	8 lt/min	10 lt/min	12 lt/min
Transformer cooling type	Air	Air	Air	Air
Weight	200±20 kg	220±20 kg	240±20 kg	270±20 kg
Dimensions (W×L×H)	400×800×1200 mm	400×800×1200 mm	400×800×1200 mm	400×800×1200 mm

Values refer to the typical production configuration; custom power ratings and designs are available. Current data sheets at akwatechnic.com.



BUTT WELDING

Mechanical Butt Welders

APB-M series

Mechanically clamped butt welders with microprocessor control. AC 12, 20 and 30 kVA; Ø1.5–14 mm material range. Wire cutting and flash removal are standard.

WELDING CAPACITY

- APB12M: Ø1.5 – 5 mm
- APB20M: Ø3 – 10 mm
- APB30M: Ø4 – 14 mm

OPTIONS

- Wire cutting system
- Flash removal
- Microprocessor control

AC MODELS

AC	APB12M ac	APB20M ac	APB30M ac
Rated power (%50 DT)	12 kVA	20 kVA	30 kVA
Secondary voltage	3,8 V	5 V	5,9 V
Short-circuit welding current (max)	6 kA	7,5 kA	9 kA
Welded material diameter	Ø1,5-5 mm	Ø3-10 mm	Ø4-14 mm
Transformer cooling type	Air	Air	Air
Weight	105±10 kg	115±10 kg	150±10 kg
Dimensions (W×L×H)	530×590×1070 mm	530×590×1070 mm	530×590×1070 mm

Values refer to the typical production configuration; custom power ratings and designs are available. Current data sheets at akwatechnic.com.



BUTT WELDING

Profile Corner Butt Welders

APB/PC series · AC / MFDC

PLC-controlled profile corner welders. AC 60–150 kVA (50% DC) and MFDC 188–350 kVA (20% DC); 45 / 65 mm jaw spacing for clean, square corner joints.

WELDING CAPACITY

- Steel and aluminium profile corners
- Door, window and frame production

OPTIONS

- PLC control unit
- Air conditioning unit
- Foot pedal
- Water distribution manifold
- Special electrode
- Proportional regulator

AC MODELS

AC	APB/PC60 ac	APB/PC90 ac	APB/PC120 ac	APB/PC150 ac
Rated power (%50DT)	60 kVA	90 kVA	120 kVA	150 kVA
Secondary voltage	6 V	7 V	8,3 V	8,9 V
Short-circuit welding current (max)	16 kA	18 kA	21 kA	23 kA
Jaw spacing	45 mm	45 mm	65 mm	65 mm
Welding jaw advancement	25 mm	25 mm	25 mm	25 mm
Electrode pressure force	190 daN	190 daN	380 daN	380 daN
Welding cylinder thrust force	300 daN	300 daN	480 daN	480 daN
Weight	780±20 kg	840±20 kg	900±20 kg	990±20 kg
Dimensions (W×L×H)	950×1000×1800 mm	950×1000×1800 mm	950×1000×1800 mm	950×1000×1800 mm

MFDC MODELS

MFDC	APB/PC188 mf	APB/PC266 mf	APB/PC350 mf
Rated power (%20 DT)	188 kVA	266 kVA	350 kVA
Rated power (%50 DT)	119 kVA	168 kVA	221 kVA
V2	9,4 V	10,2 V	12,5 V
I2P	9 kA	9,5 kA	15,3 kA
Short-circuit welding current (max)	37 kA	31 kA	37 kA
Jaw spacing	45 mm	45 mm	65 mm
Welding jaw advancement	25 mm	25 mm	25 mm
Electrode pressure force	190 daN	190 daN	380 daN
Welding cylinder thrust force	300 daN	300 daN	480 daN
Weight	720±20 kg	740±20 kg	760±20 kg
Dimensions (W×L×H)	950×1100×1800 mm	950×1100×1800 mm	950×1100×1800 mm

Values refer to the typical production configuration; custom power ratings and designs are available. Current data sheets at akwatechnic.com.



WELDING EQUIPMENT

MFDC & AC Welding Transformers

TRW · TRA · MFDC 1000 Hz

Welding transformers from our own transformer production department: water-cooled AC TRW (60–300 kVA), air-cooled AC TRA (12–60 kVA) and 1000 Hz water-cooled MFDC (111–350 kVA).

WELDING CAPACITY

- AC primary: 400 V · 50/60 Hz
- MFDC primary: 500 V · 50/60 Hz
- Copper busbars made in-house

OPTIONS

- Machine retrofit
- Robot gun applications
- Custom secondary voltage

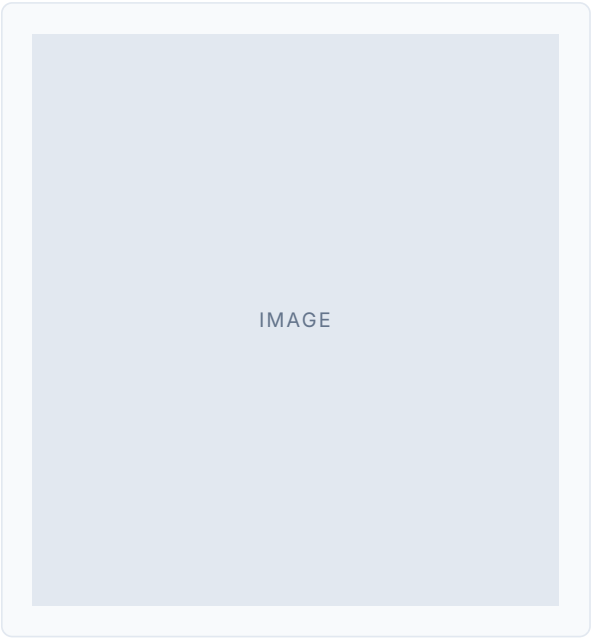
AC WATER-COOLED

AC water-cooled	TRW60 ac	TRW90 ac	TRW120 ac	TRW150 ac	TRW180 ac	TRW210 ac	TRW300 ac
Rated power (50% duty cycle)	60 kVA	90 kVA	120 kVA	150 kVA	180 kVA	210 kVA	300 kVA
Nominal secondary voltage	7,1 V	7,1 V	8,3 V	9 V	10 V	11,1 V	13,3 V
Nominal primary current	150 A	225 A	300 A	350 A	450 A	630 A	750 A
Weight	150 kg	173 kg	208 kg	212 kg	235 kg	270 kg	270 kg

AC AIR-COOLED

AC air-cooled	TRA12 ac	TRA20 ac	TRA30 ac	TRA60 ac
Rated power (50% duty cycle)	12 kVA	20 kVA	30 kVA	60 kVA
Nominal secondary voltage	2,8 V	3,4 V	5,7 V	5,9 V
Nominal primary current	30 A	50 A	75 A	150 A
Dimensions (W×L×H)	150×180×350 mm	145×370×180 mm	210×490×250 mm	220×520×260 mm
Weight	32 kg	40 kg	75 kg	82 kg

Values refer to the typical production configuration; custom power ratings and designs are available. Current data sheets at akwatechnic.com.



COOLING SYSTEMS

Chiller Coolers

ACC3 – ACC100

Closed-loop chillers with 3,000–100,000 kcal/h cooling capacity. Integrated water pump, tank and pipework simplify installation; no water consumption, scale or contamination.

WELDING CAPACITY

- Water outlet temperature +5 / +35 °C
- Refrigerant R407C
- Supply 220 V / 400 V · 50 Hz

OPTIONS

- Custom capacities
- Internal pump (ACC60 and above)

ACC MODELS

ACC	ACC3	ACC6	ACC10	ACC15	ACC20	ACC30	ACC40	ACC60	ACC80	ACC100
Cooling capacity	3000 kcal/h	6000 kcal/h	10000 kcal/h	15000 kcal/h	20000 kcal/h	30000 kcal/h	40000 kcal/h	60000 kcal/h	80000 kcal/h	100000 kcal/h
Nominal compressor power	0,75 kW	2,25 kW	2,52 kW	3,09 kW	4,24 kW	5,60 kW	6,50 kW	8,38 kW	2×6,5 kW	2×8,38 kW
Fan power	1×0,14 kW	1×0,27 kW	1×0,72 kW	1×0,72 kW	2×0,72 kW	2×0,72 kW	2×0,72 kW	3×0,72 kW	4×0,72 kW	6×0,72 kW
Fan diameter	350 mm	450 mm	500 mm	500 mm	500 mm	500 mm	500 mm	500 mm	500 mm	500 mm
Water outlet temperature	+5 / +35 °C	+5 / +35 °C	+5 / +35 °C	+5 / +35 °C	+5 / +35 °C	+5 / +35 °C	+5 / +35 °C	+5 / +35 °C	+5 / +35 °C	+5 / +35 °C
Refrigerant	R407 C	R407 C	R407 C	R407 C	R407 C	R407 C	R407 C	R407 C	R407 C	R407 C
Tank volume	25 lt	40 lt	90 lt	90 lt	144 lt	144 lt	144 lt	210 lt	255 lt	395 lt
External pump flow	2,4 m³	2,4 m³	3 m³	3 m³	4 m³	5,5 m³	6,5 m³	13 m³	16,8 m³	16,8 m³
External pump power	0,5 hp	0,5 hp	1,2 hp	1,2 hp	2 hp	2 hp	2 hp	2,4 hp	2,9 hp	2,9 hp
Net weight	112 kg	158 kg	264 kg	320 kg	370 kg	430 kg	555 kg	852 kg	914 kg	1155 kg

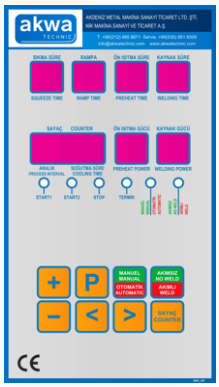
Values refer to the typical production configuration; custom power ratings and designs are available. Current data sheets at akwatechnic.com.

WELDING EQUIPMENT

Welding Control Units

AN1 V4 · AN3X V3 · ANCX V3 · AND V3 · AN-M6 V2

Five microprocessor control-panel families for resistance welding. Stored programs let the operator switch parts in seconds; squeeze, weld, hold and current parameters are kept per weld schedule. Used on all our standard machines and available as a retrofit for existing machines.



AN1 V4



AN3X V3



ANCX V3



AND V3

R&W TECH · MF INVERTER WELDING CONTROL UNITS

300 – 12 000 A · MFDC · 1 – 10 kHz

Four medium-frequency inverter control families supplied by AKWA Technic: MF-RWC-3000, 3500, 4000 and 5000. Combined with MFDC transformers they hold a stable weld window on coated and high-strength steels.



MF-RWC-3000



MF-RWC-3500



MF-RWC-4000



MF-RWC-5000

Send us the part drawing, we send you the machine.

Send the material, thickness and cycle time. Our engineers answer with a machine family, a weld schedule and a realistic delivery date.

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