

INTRODUCTION

MIGATRONIC welding equipment has a good reputation - and we know how important it is to live up to the standards we have set ourselves.

The welding machine you have purchased is the result of **MIGATRONIC'S** experience in the field of welding machine manufacture. This experience, combined with correct operation and maintenance of your machine, provides a guarantee of excellent performance in the years ahead.

Thank you for buying a **MIGATRONIC** machine.

MIGATRONIC

INSTRUCTION MANUAL

MIG STB power source (excl. wire feed unit)



Version B

50175303

EC DECLARATION OF CONFORMITY

MIGATRONIC A/S
Aggersundvej 33
9690 Fjerritslev
Denmark

hereby declare that our machine as stated below

Type: MIG
as of: week 12, 1997

conforms to directives 73/23/EEC and 89/336/EEC.

European Standards: EN60974-1
EN50199

Issued in Fjerritslev on 17th March 1997.

Peter Roed
Managing director

2014.04

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IMPORTANT SAFETY INSTRUCTIONS

The safety instructions contained in the **PERSONAL SAFETY** section of this manual should be read and observed when installing and operating the machine.

This instruction manual and the accompanying instructions for use must be accessible at all times to staff engaged in the installation, operation and maintenance of the machine.

Full understanding of this manual requires a skilled welder's knowledge of welding and of the risks involved.

DESCRIPTION OF FUNCTIONS

The MIG STB range is comprised of 4 machines of different welding capacity:
STB = separate wire feed unit

MIG 335
MIG 405
MIG 505
MIG 605

The flow control reports watercooling error in case of insufficient or lacking flow of cooling water. The water pump stops by a fault in the water system. The pump is restarted by stopping and starting the machine.

The machines are divided into the following main modules: *power source, indicator panel, and optional water module for use with watercooled torches.*

Besides this a separate wire feed unit needs to be connected. The following types can be used for MIG:

<i>MWF 10</i>	<i>MIG 335/405</i>
<i>MWF 11</i>	<i>MIG 335/605</i>
<i>MWF 21</i>	<i>MIG 335/605</i>

Please note that MWF 10 cannot - as to output - be used to MIG 505/605. At high output MWF 11/21 has to be used.

These wire feed units can be equipped with different control kits if required (please see the MWF instruction manual).

Power source

The power source consists of a three-phase welding transformer, two voltage selector switches, a rectifier and an inductor. The power source has always cooling with two automatic speeds. After 4 min. after the last welding the fan stops and starts automatically by a new welding.

Indicator panel

The indicator panel indicates errors and shows whether the machine is turned on.

Water module

The water module consists of a water tank, a watercooling system, a water pump and a flow control.

INITIAL OPERATION

S

-marking

This machine meets the demands made for machines which are to operate in environments with an increased hazard of electric shock.

In certain types of welding jobs there is an increased hazard of getting an electric shock, e.g. in environments where the welder has to work in a crouched position and is therefore in contact with the work-piece, in places which are partially or totally surrounded by conductive parts, and in wet, damp or hot places.

When welding under such conditions there must be a person nearby who can render help in case of an emergency and he must be able to quickly cut off the current.

Protection class

The machine is designed for indoor operation and meets the requirements of protection class IP21.

Please ensure that the air inlet and outlet are not blocked.

Electromagnetic emissions and the radiation of electromagnetic disturbances

In conformity with the Electromagnetic Compatibility (EMC) Directive within the European Union this high-quality welding machine for industrial and professional use is designed, built and tested in accordance with the European Standard EN50199 on radiation and incident radiation of electromagnetic disturbances, the purpose of this standard being to prevent the occurrence of situations, where the machine is disturbed or is itself the source of disturbance in other electrical equipment or appliances.

The responsibility of the user

A trouble-free performance without disturbances or disruption caused by electromagnetic emissions, does, however, require that certain measures are taken when installing and using the welding equipment.

Thus it is the responsibility of the user to ensure that the operation of this machine does not occasion disturbances of the above mentioned nature.

Before installing and operating the welding machine, an assessment of the surrounding area is therefore required and this assessment is best performed by the specialist installing the welding machine.

Assessment of area

The following shall be taken into account:

1. Supply cables for other equipment, control cables, signalling and telephone cables in the vicinity of the welding machine.
2. Radio or television transmitters and receivers.
3. Computers and any control equipment.
4. Critical safety equipment, e.g. electrically or electronically controlled guards or protective systems around process equipment.
5. The medical health circumstances of people in the area, e.g. the use of pace-makers, hearing aids etc.
6. Equipment used for calibration and measurement.
7. The immunity to disturbance or disruption of other equipment in the environment which may be disturbed and which therefore may require special protection measures.

8. The time of day that welding or other activities are to be carried out.

The size of the surrounding area to be considered will depend on the structure of the building and those other activities that are to take place in the environment. Special circumstances may require an extension of this area.

Use in domestic establishments

This welding machine is normally expected to be used in industrial situations and areas, and if used in a domestic establishment the hazard of disturbing other electric appliances is increased and it may be necessary to take special and additional precautions in order to prevent problems of emission.

Methods of reducing electromagnetic emissions

- The welding cables should be kept as short as possible.
- The welding cables should be positioned with the negative and the positive cables close together.
- The welding cables should be running at or close to floor level.
- Mains cables and other cables, e.g. telephone, computer, and signalling cables, should not be carried or placed parallel and close to each other, e.g. not in the same cable tray or box.
- Separately-insulated mains supply cables for sensitive electronic equipment, e.g. computers.
- Selective screening of cables may be considered under special circumstances.
- Screening of the entire welding installation may be considered under special circumstances and for special applications.

Mains connection

The machine must be connected to a three-phase mains supply and it is important to ensure that the mains supply voltage is in accordance with the voltage to which the machine is built. The safety conductor (earth) is yellow/green.

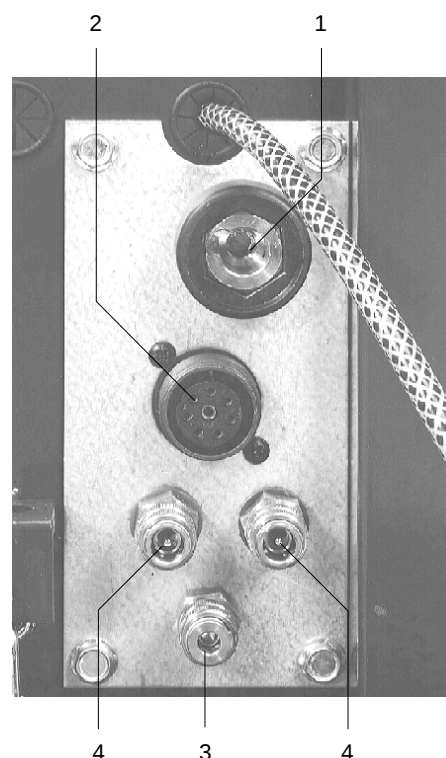
The machine is equipped with a thermal cut-out protecting against overload of the machine and excession of max. current for the mains cable.

It is possible to select the mains fuse so the mains cable is only protected against short-circuits.

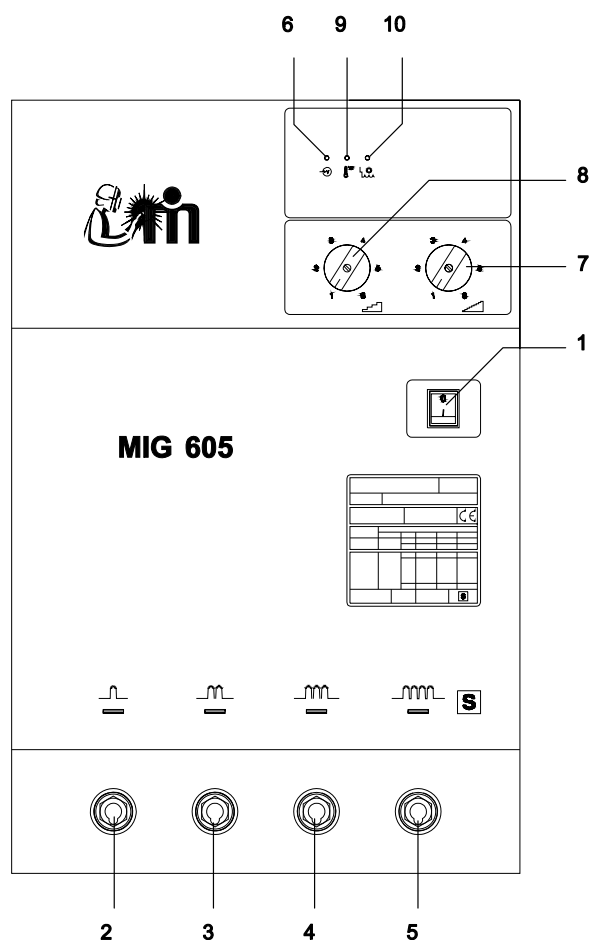
The protection indicated on the type plate of the machine will provide protection against both overcurrent and short circuits.

How to connect the separate wire feed unit

Connect the rear of the separate wire feed unit to the machine using an extension cable which contains cables and hoses for welding positive (pos. 1), control signals (pos. 2), gas (pos. 3) and cooling water (pos. 4), if a water module is incorporated in the machine.



CONTROL SWITCHES



1. Main switch

2. Inductance output

Recommended wire diameter $\varnothing$ 0.6 – 1.0

3. Inductance output

Recommended wire diameter $\varnothing$ 1.2 – 1.6

4. Inductance output

Recommended wire diameter $\varnothing$ 1.6 – 1.8

5. Inductance output

Recommended wire diameter $\varnothing$ 1.8 – 2.0

6. ON

Lights when the machine has been turned on.

7. Adjustment of welding voltage

MIG 335 (1 - 12) fine adjustment
MIG 405 (1 - 12) fine adjustment
MIG 505 (1 - 6) fine adjustment
MIG 605 (1 - 6) fine adjustment

8. Adjustment of welding voltage

MIG 335 (1 - 2) coarse adjustment
MIG 405 (1 - 2) coarse adjustment
MIG 505 (1 - 6) coarse adjustment
MIG 605 (1 - 6) coarse adjustment

9. Overheat error

10. Torch cooling error

INDICATION OF ERRORS

Two error situations are registered: Machine overheating error and torch cooling error. The errors divide into two categories; One category where the user can try to correct the error himself and another where MIGATRONIC's Service Department has to be called in. All errors are shown for as long as the error exists.

Machine overheat error	
Origin	Overheating of the machine due to incorrect use, e.g. exceeding the duty cycle of the machine for the welding current in use.
Consequence	The welding process is interrupted and post-flow starts. The LED with the symbol for overheat is lit.
Remedy	If the error is not caused by incorrect use, MIGATRONIC's Service Department has to be called in.
Torch cooling error	
Origin	There is no flow or insufficient flow of cooling water in the torch.
Consequence	The welding process is interrupted and post-flow starts. The LED with the symbol for torch cooling error is lit
Remedy	Refill the water tank and check the hose assembly. Please note that air in the system can prevent the pump from working. Disconnect the return hose from the torch and "bleed" the system of air. If the error persists, call MIGATRONIC's Service Department.

LOCATION OF ERRORS - MIG/MAG WELDING

Spatter:

1. The wire feed is too fast for the voltage setting.
2. Worn out contact tip.

Porous weld. A cone is formed when spot welding.

1. Contact tip is blocked up
2. A leak in the gas hose draws in air which mixes with the shielding gas.

MAINTENANCE

Power source

With regular intervals dust should be blown out of the power source with clean, dry compressed air. Choked or blocked air intake and outlet may result in overheating.

The power source should be checked and cleaned at least once a year by trained service staff.

Water module

Waterlevel should be checked regularly. To ensure reliable operation, always use MIGATRONIC coolant (part no. 99290510), mixed with water in the ratio mentioned on the packing.

If the level of coolant in the tank falls so low that the machine is disconnected (error information in the control panel of the current source), then extra coolant should be added, using the filling nozzle.

Coolant needs yearly renewal.

Insufficient maintenance may result in reduced operational reliability.

Insufficient maintenance may result in lapse of guarantee.

PERSONAL SAFETY



Light and heat emission

A welding arc emits radiation which is damaging to the human eye. Even short-term exposure to this radiation can cause lasting damage. Protect your eyes from powerful radiation by infra-red, visible and also ultra-violet light by installing suitable radiation protection glass in your welding helmet.

Your skin can also be damaged by welding radiation. Radiation can cause serious burns. Protect your skin by wearing a welding helmet, working clothing covering all exposed parts, and gloves.

During welding, warn other people in the vicinity of the danger of radiation and sparks. If possible, place a screen between the place of work and the surroundings.

The heat emitted from the arc and pool crater - as well as the sparks emitted during welding - represent a fire hazard. Consequently, welding should never be carried out near combustible materials. Working clothing must not be made of substances which are easily combustible, and should have no folds or open pockets into which sparks can fall. Wear a fire resistant apron if necessary.



Welding fumes

The smoke and gases emitted during welding are damaging to the health. Consequently, the inhalation of welding smoke and gases should be avoided by taking suitable preventive measures (e.g. local air extraction, ventilation, or supply of fresh air to welding helmet).



Electricity

Avoid contact with all live components.

The voltages used in welding are not sufficient to represent a danger in themselves. However, if damp clothing is worn, or if working in damp conditions, electric shocks can be caused, representing an indirect source of danger.

Considerable electric shocks can be caused by HF high voltage ignition during TIG welding in particular, and may lead to minor burns beneath the skin.

Consequently, all contact with live components should be avoided as far as possible.

Always use dry, leather welding gloves and wear dry working clothing and shoes. Keep cables, torches, and the welding machine itself dry at all times.

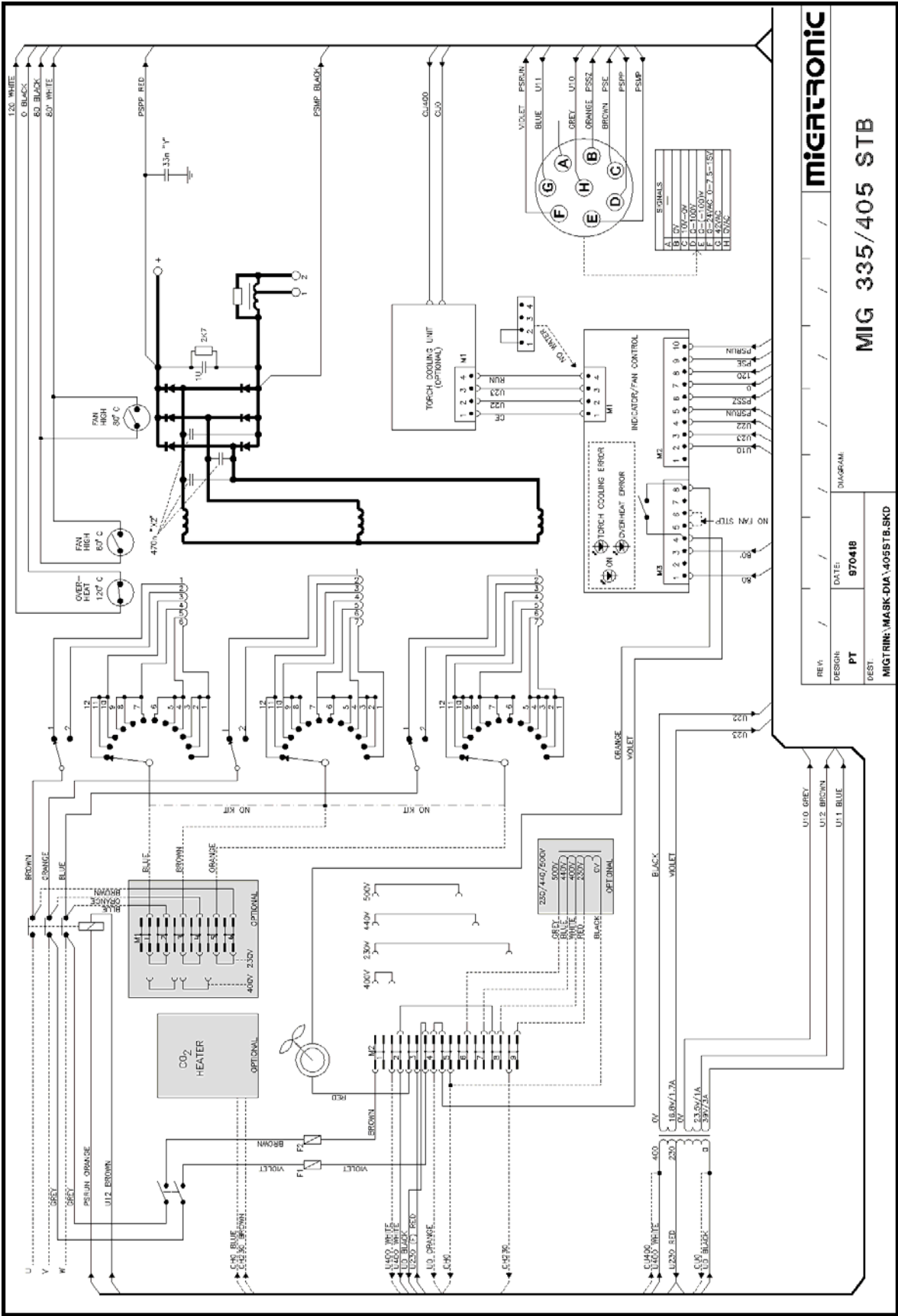
Make sure that the welding machine's earth connection is properly and safely earthed.

Do not open the machine to expose live components. Maintenance and service which require access to live components inside the machine must be carried out by an authorized electrician.

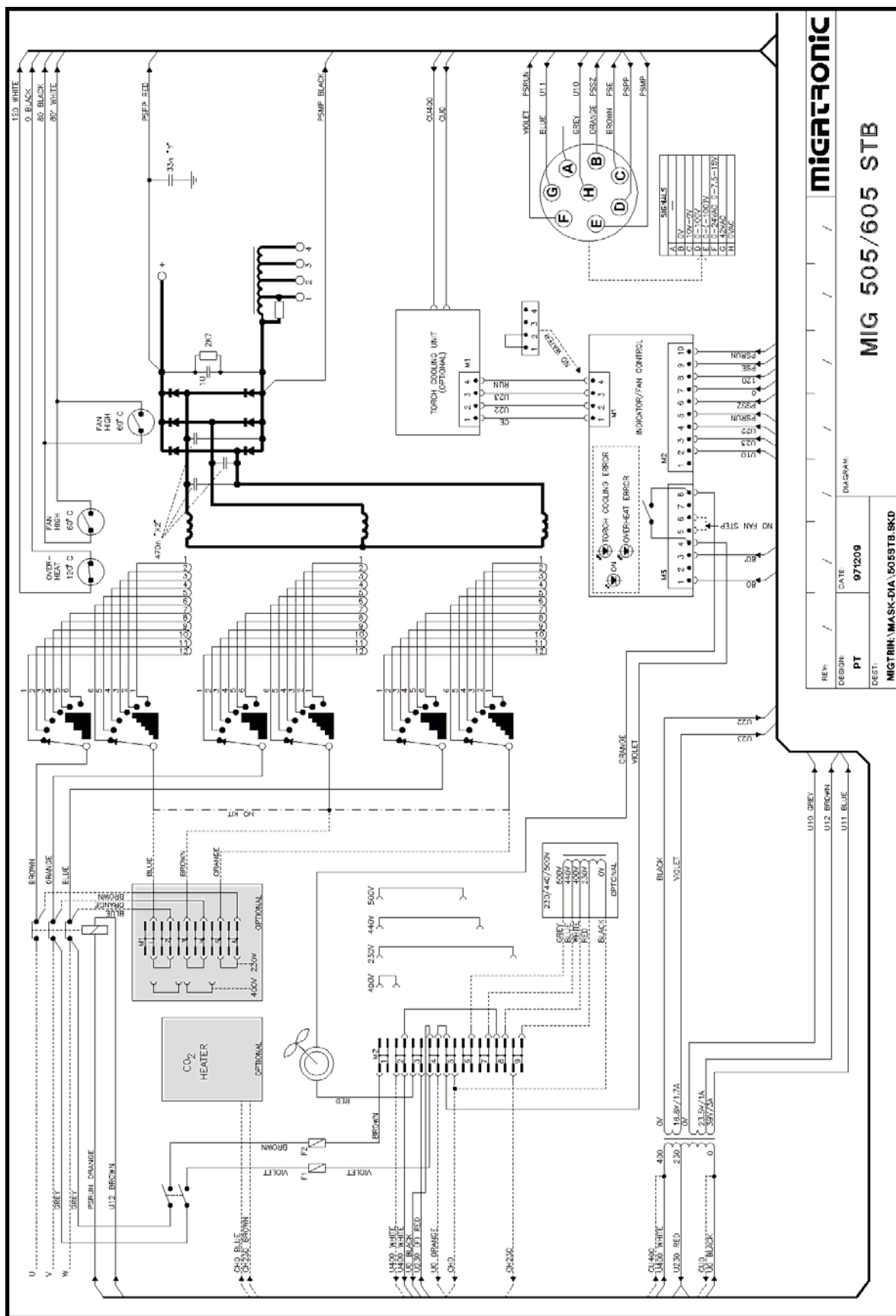
TECHNICAL DATA

Power source	MIG 335	MIG 405	MIG 505	MIG 605
Fuse 230 V	25 A	40 A	50 A	63 A
Fuse 400 V	16 A	25 A	35 A	35 A
Efficiency	0.77	0.71	0.74	0.87
Power factor	0.95	0.87	0.92	0.85
Open circuit voltage min.	17.4 – 192 V	17.4 – 19.0 V	17.6 – 19.0 V	17.6 – 19.0 V
Open circuit voltage max.	41.6 – 45.4 V	48.5 – 53.0 V	54.0 – 59.0 V	54.0 – 64.4 V
Voltage positions	24	24	36	36
100 % duty cycle	240 A	265 A	350 A	380 A
60 % duty cycle	300 A	315 A	430 A	470 A
35 % duty cycle	335 A	405 A	505 A	605 A
Current range min.	40 A/16 V	40 A/16 V	40 A/16 V	40 A/16 V
Current range max.	335 A/30.8 V	405 A/34.3 V	505 A/39.3 V	605 A/44 V
Inductance positions	2	2	4	4
Protection class	IP 21	IP 21	IP 21	IP 21
Norm	EN60974-1 EN50199	EN60974-1 EN50199	EN60974-1 EN50199	EN60974-1 EN50199
Cooling module	3 L	3 L	3 L	3 L
Dim. & weight (without MWF):				
Dim. lxbxh	94x51x84 cm	94x51x84 cm	94x51x84 cm	94x51x84 cm
Total weight	135 kg	163 kg	201 kg	206 kg

CIRCUIT DIAGRAM MIG 335/405 STB



CIRCUIT DIAGRAM MIG 505/605 STB

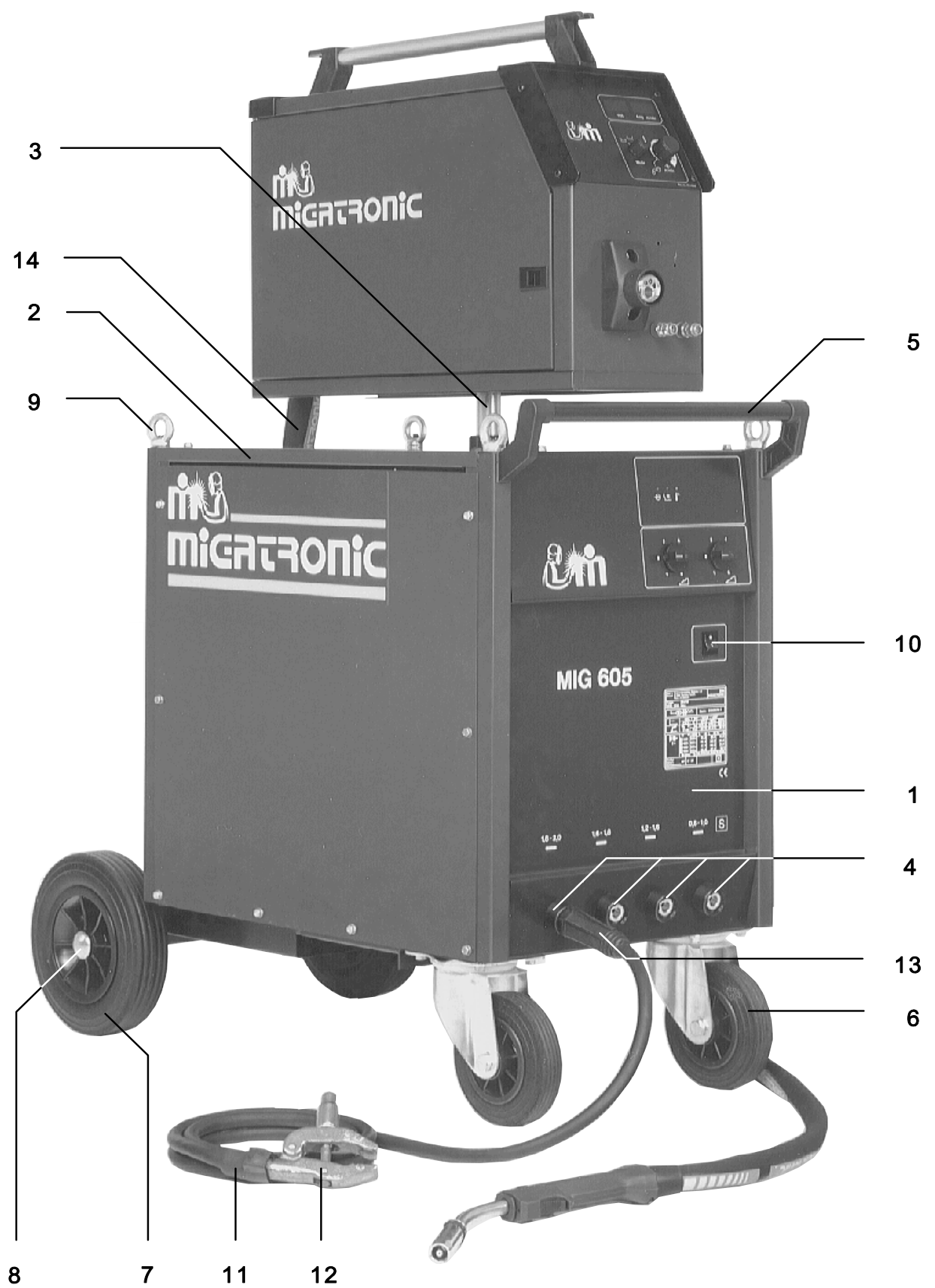


Reservedelsliste
Spare parts list
Ersatzteilliste
Liste des pièces de rechange

MIG STB MK I



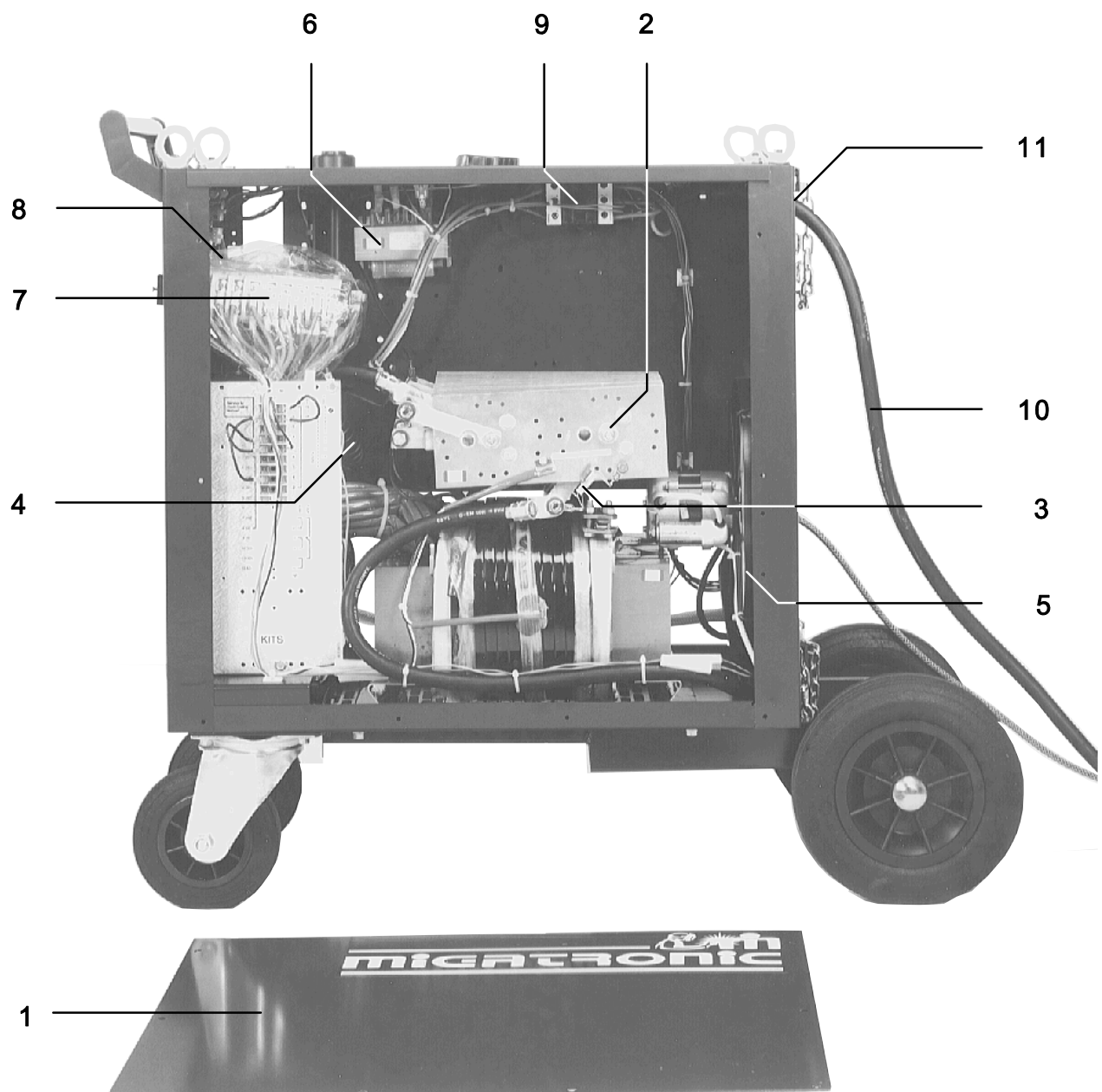
MIG



MIG

Pos.	No.	Varebetegnelse Warenbezeichnung	Description of goods Désignation des pièces
1	61113600	Frontpanel MIG 335 STB Frontplatte MIG 335 STB	Front plate MIG 335 STB Pièce avant MIG 335 STB
1	61113601	Frontpanel MIG 405 STB Frontplatte MIG 405 STB	Front plate MIG 405 STB Pièce avant MIG 405 STB
1	61113602	Frontpanel MIG 505 STB Frontplatte MIG 505 STB	Front plate MIG 505 STB Pièce avant MIG 505 STB
1	61113603	Frontpanel MIG 605 STB Frontplatte MIG 605 STB	Front plate MIG 605 STB Pièce avant MIG 605 STB
2	24413605	Låg, grøn, luftkølet Deckel, grün, luftgekühlt	Lid, green, air cooled Couvercle, vert, refroidi par air
2	24413603	Låg, grøn, vandkølet Deckel, grün, wassergekühlt	Lid, green, water cooled Couvercle, vert, refroidi par eau
3	70210482	Drejeaksel Drehachse	Spindle Arbre d'un tour
3	45050246	Isoleringsbøsning Isolierbuchse	Insulation bush Manchon isolant
4	18110002	Dinsebøsning Dinsebuchse	Dinse coupling socket Douille de raccordement, type Dinse
5	70611355	Håndtag, komplet Handgriff, komplett	Handle, complete Poignée, complète
5	26210034	Rør for håndtag Rohr für Handgriff	Steel handle Poignée métallique
5	45050088	Holder for håndtag, højre Halter für Handgriff, rechts	Holder for Handle, right Support pour poignée, droit
5	45050089	Holder for håndtag, venstre Halter für Handgriff, links	Holder for handle, left Support pour poignée, gauche
6	44220161	Drejehjul Rad, drehbar	Swivelling wheel Roue pivotante
7	44210250	Endenavshjul Nabenrad	Wheel Roue d'extrémité moyeu
8	44610001	Navkapsel Nabendeckel	Wheel cap Couvre-moyeu
9	41219010	Løfteøje Ohrbolzen	Ring bolt Boulon à oeillet
10	17110005	Vippeafbryder 0-1 Kippschalter 0-1	Switch 0-1 Interrupteur 0-1
11	8050xxxx	Stelkabel (se sidste side) Massekabel (Siehe letzte Seite)	Earth cable (see last page) Câble de mise à la terre (voir la dernière page)
12	80560002	Stelklemme 250A, 35mm ² , 50mm ² Masseklemme 250A, 35mm ² , 50mm ²	Earth clamp 250A, 35mm ² , 50mm ² Prise de masse 250A, 35mm ² , 50mm ²
12	80560009	Stelklemme 600A, 70mm ² , 95mm ² Masseklemme 600A, 70mm ² , 95mm ²	Earth clamp 600A, 70mm ² , 95mm ² Prise de masse 600A, 70mm ² , 95mm ²
13	18120002	Dinsestik 25mm ² , 35mm ² Dinsestecker 25mm ² , 35mm ²	Quick connection 25mm ² , 35mm ² Connection, type Dinse 25mm ² , 35mm ²
13	18120003	Dinsestik 70mm ² Dinsestecker 70mm ²	Quick connection 70mm ² Connection, type Dinse 70mm ²
13	18120004	Dinsestik 95mm ² Dinsestecker 95mm ²	Quick connection 95mm ² Connection, type Dinse 95mm ²
14	7432xxxx	Mellemkabel (se sidste side) Zwischenkabel (Siehe letzte Seite)	Intermediary cable (See last page) Câble intermédiaire (Voir la dernière page)

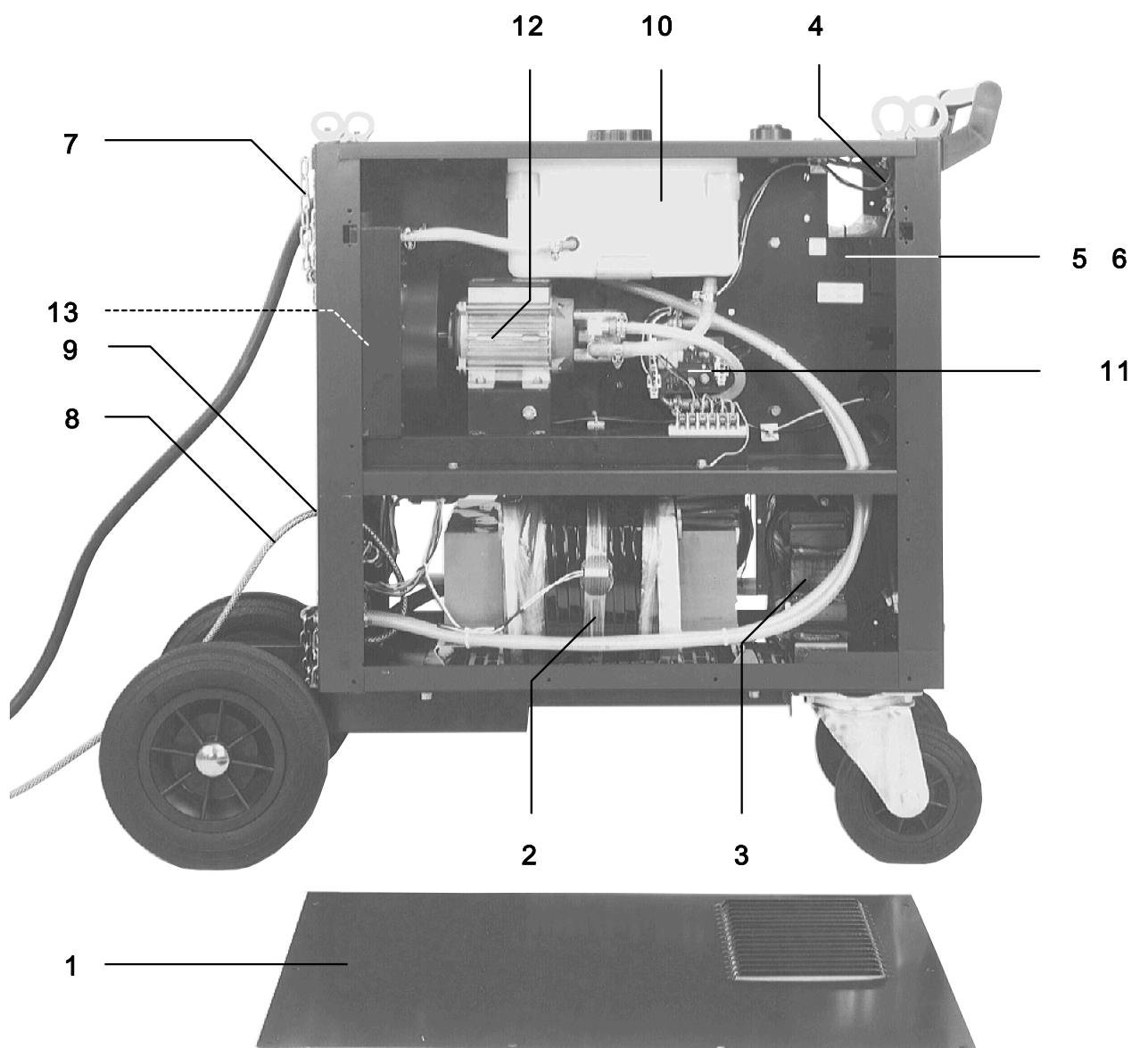
MIG



MIG

Pos.	No.	Varebetegnelse Warenbezeichnung	Description of goods Désignation des pièces
1	61113609	Sideskærm, venstre Seitenschirm, links	Side panel, left Plaque latéral gauche
2	12270342	Ensretter MIG 335, 405 Gleichrichter MIG 335, 405	Rectifier MIG 335, 405 Redresseur de courant MIG 335, 405
2	12270461	Ensretter MIG 505 Gleichrichter MIG 505	Rectifier MIG 505 Redresseur de courant MIG 505
2	12270691	Ensretter MIG 605 Gleichrichter MIG 605	Rectifier MIG 605 Redresseur de courant MIG 605
3	74420045	RC-led Überspannungsschutz	RC-protection Joint de protection contre surcharge
4	14820038	Modstandstråd MIG 335, 405 Widerstand MIG 335, 405	Resistor MIG 335, 405 Résistance du fil MIG 335, 405
4	14820025	Modstandstråd MIG 505, 605 Widerstand MIG 505, 605	Resistor MIG 505, 605 Résistance du fil MIG 505, 605
5	81100096	Ventilator, komplet MIG 335, 405 Lüfter, komplett MIG 335, 405	Fan complete MIG 335, 405 Ventilateur complet MIG 335, 405
5	81100010	Ventilator, komplet MIG 505, 605 Lüfter, komplett MIG 505, 605	Fan complete MIG 505, 605 Ventilateur complet MIG 505, 605
6	16160115	Styrestromstransformator Steuerstromstrafo	Control transformer Transformateur de courant de commande
7	17250017	Omskifter 1-12 med knap, MIG 335, 405 Schalter 1-12 mit Knopf, MIG 335, 405	Switch 1-12 with button, MIG 335, 405 Commutateur 1-12 avec bouton, MIG 335, 405
7	17250008	Omskifter 1-6 med knap, MIG 505, 605 Schalter 1-6 mit Knopf, MIG 505, 605	Switch 1-6 with button, MIG 505, 605 Commutateur 1-6 avec bouton, MIG 505, 605
8	17250069	Omskifter 0-1-2 med knap, MIG 335, 405 Schalter 0-1-2 mit Knopf, MIG 335, 405	Switch 0-1-2 with button, MIG 335, 405 Commutateur 0-1-2 avec bouton, MIG 335, 405
8	17250008	Omskifter 1-6 med knap, MIG 505, 605 Schalter 1-6 mit Knopf, MIG 505, 605	Switch 1-6 with button, MIG 505, 605 Commutateur 1-6 avec bouton, MIG 505, 605
9	17140019	Kontaktor 400 V, MIG 335 Kontaktor 400 V, MIG 335	Contacteur 400 V, MIG 335 Commutateur 400 V, MIG 335
9	17140020	Kontaktor 230/400 V, MIG 335 Kontaktor 230/400 V, MIG 335	Contacteur 230/400 V, MIG 335 Commutateur 230/400 V, MIG 335
9	17140020	Kontaktor 400 V, MIG 405 Kontaktor 400 V, MIG 405	Contacteur 400 V, MIG 405 Commutateur 400 V, MIG 405
9	17140025	Kontaktor 230/400 V, MIG 405 Kontaktor 230/400 V, MIG 405	Contacteur 230/400 V, MIG 405 Commutateur 230/400 V, MIG 405
9	17140020	Kontaktor 400 V, MIG 505 Kontaktor 400 V, MIG 505	Contacteur 400 V, MIG 505 Commutateur 400 V, MIG 505
9	17140026	Kontaktor 230/400 V, MIG 505 Kontaktor 230/400 V, MIG 505	Contacteur 230/400 V, MIG 505 Commutateur 230/400 V, MIG 505
9	17140025	Kontaktor 400 V, MIG 605 Kontaktor 400 V, MIG 605	Contacteur 400 V, MIG 605 Commutateur 400 V, MIG 605
9	17140033	Kontaktor 230/400 V, MIG 605 Kontaktor 230/400 V, MIG 605	Contacteur 230/400 V, MIG 605 Commutateur 230/400 V, MIG 605
10	7423xxxx	Netkabel (se sidste side) Netzkabel (siehe letzte Seite)	Mains supply cable (see last page) Câble d'alimentation (voir la dernière page)
11	45070005	Kabelaflastning Kabeldurchführung	Cable lead-in Traversé de câble
	17150002	Termosikring 120°C Thermosicherung 120°C	Overheating protection 120°C Thermo-relais 120°C
	17150007	Termosikring 70°C Thermosicherung 70°C	Overheating protection 70°C Thermo-relais 70°C
	17150013	Termosikring 60°C Thermosicherung 60°C	Overheating protection 60°C Thermo-relais 60°C
	74470725	Ledningssæt, stærkstrøm Leitungsbündel, starkstrom	Wire harness, power current Filerie, courant fort
	74470947	Ledningssæt, svagstrøm Leitungsbündel, schwachstrom	Wire harness, low current Filerie, courant faible
	74470946	Ledningssæt, stærkstrøm MIG STB Leitungsbündel, starkstrom MIG STB	Wire harness, power current MIG STB Filerie, courant fort MIG STB

MIG



MIG

Pos.	No.	Varebetegnelse Warenbezeichnung	Description of goods Désignation des pièces
1	61113607	Sideskærm, grøn, vandkølet Seitenschirm, grün, wassergekühlt	Side panel, green, water cooled Plaque latérale, vert, refroidi par eau
1	61113606	Sideskærm, grøn, luftkølet Seitenschirm, grün, luftgekühlt	Side panel, green air cooled Plaque latérale, vert refroidi par air
2	16122602	Svejsetransformator MIG 335, 230/400 V Schweißtrafo MIG 335, 230/400 V	Welding transformer MIG 335, 230/400 V Transformateur de soudage MIG 335, 230/400 V
2	16122607	Svejsetransformator MIG 335, 500 V Schweißtrafo MIG 335, 500 V	Welding transformer MIG 335, 500 V Transformateur de soudage MIG 335, 500 V
2	16122603	Svejsetransformator MIG 405, 230/400 V Schweißtrafo MIG 405, 230/400 V	Welding transformer MIG 405, 230/400 V Transformateur de soudage MIG 405, 230/400 V
2	16122608	Svejsetransformator MIG 405, 500 V Schweißtrafo MIG 405, 500 V	Welding transformer MIG 405, 500 V Transformateur de soudage MIG 405, 500 V
2	16122604	Svejsetransformator MIG 505, 230/400 V Schweißtrafo MIG 505, 230/400 V	Welding transformer MIG 505, 230/400 V Transformateur de soudage MIG 505, 230/400 V
2	16122606	Svejsetransformator MIG 505, 500 V Schweißtrafo MIG 505, 500 V	Welding transformer MIG 505, 500 V Transformateur de soudage MIG 505, 500 V
2	16122605	Svejsetransformator MIG 605, 230/400 V Schweißtrafo MIG 605, 230/400 V	Welding transformer MIG 605, 230/400 V Transformateur de soudage MIG 605, 230/400 V
3	16412602	Drosselspole MIG 335 Drosselspule MIG 335	Inductor MIG 335 Bobine d'inductance MIG 335
3	16412603	Drosselspole MIG 405 Drosselspule MIG 405	Inductor MIG 405 Bobine d'inductance MIG 405
3	16412604	Drosselspole MIG 505 Drosselspule MIG 505	Inductor MIG 505 Bobine d'inductance MIG 505
3	16412605	Drosselspole MIG 605 Drosselspule MIG 605	Inductor MIG 605 Bobine d'inductance MIG 605
4	71611326	Indikatorprint Indicator PCB	Indikatorprint Circuit imprimé d'indication
5	17160007	Sikringsholder Halter für Sicherung	Holder for fuse Porte-fusible
6	17173020	Sikring 2 A, træg Sicherung 2 A, træg	Fuse 2 A, slow Fusible 2 A, lent
6	17173040	Sikring 4 A, træg Sicherung 4 A, træg	Fuse 4 A, slow Fusible 4 A, lent
7	42410001	Kæde Kette	Chain Chaîne
8	74120010	Gasslange 2,7m Gasschlauch 2,7m	Gas hose 2.7m Tuyauterie de gaz 2,7m
9	18470002	Gummitylle Schutz	Rubber protection Revêtement caoutchouté
10	78812036	Vandmodul, komplet Wassermodule, komplett	Water cooling unit, complete Module hydraulique, complet
11	75903600	Flowkontrol, komplet Flowkontrolle, komplett	Flow control, complete Contrôle du débit, complet
11	71616517	Styreprint, vandkontrol Kontroll Platine, Wassermodule	Control PCB, water cooling unit Circuit imprimé de contrôle d'eau
12	17310026	Vandpumpe Wasserpumpe	Water pump Pompe à eau
13	71240015	Køler Kühler	Refrigerator Refroidisseur
	74470952	Ledningssæt vandmodul Leitungsbündel Wassermodule	Wire harness water cooling unit Filerie module hydraulique

MIG

		No.	Netkabel Netzkabel	Mains supply cable Câble d'alimentation
		74234011	8,5m 4x2,5mm ²	8.5m 4x2.5mm ²
		74234001	8,5m 4x4mm ²	8.5m 4x4mm ²
		74234002	8,5m 4x6mm ²	8.5m 4x6mm ²
		74234003	8,5m 4x10mm ²	8.5m 4x10mm ²
		74234004	8,5m 4x16mm ²	8.5m 4x16mm ²
		74234005	8,5m 4x25mm ²	8.5m 4x25mm ²
		74234040	5m 4x2,5mm ²	5m 4x2,5mm ²
		74234041	5m 4x4mm ²	5m 4x4mm ²
		74234042	5m 4x6mm ²	5m 4x6mm ²
		74234043	5m 4x10mm ²	5m 4x10mm ²
		74234044	5m 4x16mm ²	5m 4x16mm ²
		74234014	3m 4x2,5mm ²	3m 4x2,5mm ²
		74234006	3m 4x4mm ²	3m 4x4mm ²
		74234007	3m 4x6mm ²	3m 4x6mm ²
		74234008	3m 4x10mm ²	3m 4x10mm ²
		74234009	3m 4x16mm ²	3m 4x16mm ²
		74234010	3m 4x25mm ²	3m 4x25mm ²
			Stelkabel Massekabel	Earth cable Câble de mise à la terre
MIG 335		80503503	35mm ² x 3m	35mm ² x 3m
		80503505	35mm ² x 5m	35mm ² x 5m
		80503506	35mm ² x 6m	35mm ² x 6m
		80503510	35mm ² x 10m	35mm ² x 10m
		80503520	35mm ² x 20m	35mm ² x 20m
MIG 405		80505003	50mm ² x 3m	50mm ² x 3m
		80505005	50mm ² x 5m	50mm ² x 5m
		80505006	50mm ² x 6m	50mm ² x 6m
		80505010	50mm ² x 10m	50mm ² x 10m
		80505020	50mm ² x 20m	50mm ² x 20m
MIG 505		80507003	70mm ² x 3m	70mm ² x 3m
		80507005	70mm ² x 5m	70mm ² x 5m
		80507006	70mm ² x 6m	70mm ² x 6m
		80507010	70mm ² x 10m	70mm ² x 10m
		80507020	70mm ² x 20m	70mm ² x 20m
MIG 605		80509503	95mm ² x 3m	95mm ² x 3m
		80509505	95mm ² x 5m	95mm ² x 5m
		80509506	95mm ² x 6m	95mm ² x 6m
		80509510	95mm ² x 10m	95mm ² x 10m
		80509520	95mm ² x 20m	95mm ² x 20m

MIG

74325924	Mellemkabel 2,5m 70mm ² , MWF10 Zwischenkabel 2,5m 70mm ² , MWF10	Intermediary cable 2,5m 70mm ² , MWF10 Câble intermédiaire 2,5m 70mm ² , MWF10
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78861129	Opgraderingskit fra MWF10 til MWF11 Kit - Aufgradieren von MWF10 zu MWF11	Kit - opgrading from MWF10 to MWF11 Kit de modernisation de MWF10 à MWF11
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MWF11

Mellemkabel luftkølet med stikforbindelse
Zwischenschlauchpaket, luftgekühlt mit Abzweigverbindung

74324903	50mm ² x 3m
74324905	50mm ² x 6m
74324907	50mm ² x 10m
74324908	50mm ² x 20m
74325905	70mm ² x 3m
74325906	70mm ² x 6m
74325907	70mm ² x 10m
74325908	70mm ² x 20m

MWF11

Intermediary cable, air cooled with socketoutlet and plug,
Câble d'interconnexion, refroidi par air avec prise de courant

50mm ² x 3m
50mm ² x 6m
50mm ² x 10m
50mm ² x 20m
70mm ² x 3m
70mm ² x 6m
70mm ² x 10m
70mm ² x 20m

Mellemkabel vandkølet med stikforbindelse
Zwischenschlauchpaket, wassergekühlt mit Abzweigverbindung

74324904	50mm ² x 3m
74324906	50mm ² x 6m
	50mm ² x 10m
	50mm ² x 20m
74370001	70mm ² x 3m
74370002	70mm ² x 6m
74370003	70mm ² x 10m
74370004	70mm ² x 20m
74370005	95mm ² x 3m
74370006	95mm ² x 6m
74370007	95mm ² x 10m
74370008	95mm ² x 20m

Intermediary cable, water cooled with socketoutlet and plug
Câble d'interconnexion, refroidi par eau avec prise de courant

50mm ² x 3m
50mm ² x 6m
50mm ² x 10m
50mm ² x 20m
70mm ² x 3m
70mm ² x 6m
70mm ² x 10m
70mm ² x 20m
95mm ² x 3m
95mm ² x 6m
95mm ² x 10m
95mm ² x 20m