

FLEX 3000



# FLEX 3000

## SIMPLICITY AND STATE-OF-THE-ART TECHNOLOGY



**MIGATRONIC**  
WELDING VALUE



# FLEX<sup>2</sup> 3000 - INTELLIGENT AND USER-FRIENDLY MIG/MAG MACHINES FOR SHEET METAL WELDING AND MIG BRAZING

The auto business is one of the most innovative industries in terms of materials and joining methods. Since its first welding machine was produced in 1970, Migatronic has been a leading supplier to the auto business; a position which is strengthened by the new features and increased user-friendliness of Flex<sup>2</sup> 3000.

Flex<sup>2</sup> 3000 is the result of new giant leaps in welding technology and Migatronic's over 40 years of experience. Developed in co-operation with car makers, steel and gas suppliers and users throughout the world, the Flex<sup>2</sup> 3000, with or without water-cooling, optimises itself and allows the welder to focus on good workmanship: Switch on - press - weld.

## DIGITAL INTELLIGENCE

The digital intelligence in the Flex<sup>2</sup> 3000 makes it easy to find the program relevant to the individual car make, be it MIG brazing in high-tensile steels or welding in ferritic, stainless steels. The program packages are designed for leading car makes, from Audi over GM to Ferrari's thoroughbred racer in hardenable aluminium.

## PROCESS IMPROVEMENT AND LESS POST-TREATMENT

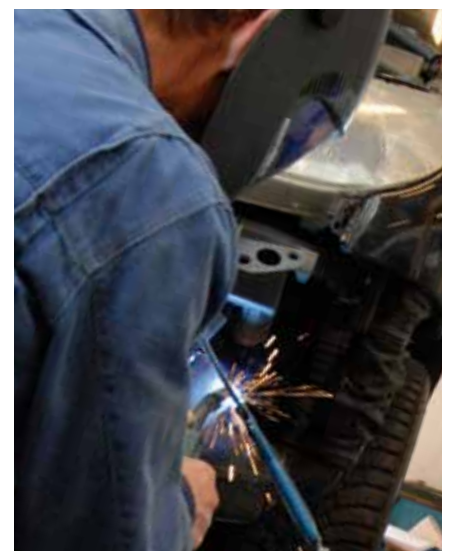
MIG brazing high-tensile steel is one of Migatronic's specialist fields. Joining of special alloy thin plates requires a gentle process. This process and much more is built into the memory of the Flex<sup>2</sup> 3000. The result speaks for itself; the corrosion and strength properties of the material are maintained and only little post-treatment is required owing to a minimum of weld spatter and heat input. And there is hardly any deformation of car body plates.

## REMOTE CONTROL USING MIG-A TWIST® WELDING TORCH

Flex<sup>2</sup> 3000 comes with the MIG-A Twist torch in award-winning design – in air-cooled or water-cooled version. The unique, turnable swan neck of the MIG-A Twist allows access to hard-to-reach places. It is possible to mount different modules on top of the torch for adjustment of the most important welding parameters.

MIG brazing maintains the strength of the steel and protects the anti-corrosive zinc surface

Ergonomic torches for easy access



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## PROGRAM WIZARD™

The Migatron Program Wizard™ allows the welder to find the right welding program for an assignment without having to browse through all the programs, and there is no risk of making wrong choices. Program Wizard is a built-in guide in the control panel which finds the right program in the program packages by asking three or four simple questions, for example about type of wire and gas.

## DIGITAL MEMORY WITH MIGATRONIC MJCT™

The newly developed MJCT™ Miga Job Control allows saving of up to 200 individual welding jobs and easy recall of favourite settings.

## LOWER POWER CONSUMPTION - LESS EFFECT ON THE ENVIRONMENT

Flex<sup>2</sup> 3000 is green throughout owing to new welding technology and use of low-energy components – an important factor now that CO<sub>2</sub> emission and increasing power consumption are on the agenda.

## EXTENSIVE GAS SAVINGS

Intelligent Gas Control IGC® is an optional feature in Flex<sup>2</sup> 3000; a dynamic gas control that monitors consumption and optimises gas protection. IGC® gives up to 50% gas savings with proportionally fewer replacements of gas cylinder to the benefit of economy, environment and efficiency; especially in the auto business which is characterised by many small welds and tack-welds.



MJCT™ allows saving of up to 200 individual welding jobs

Calculate your bottom-line savings on [www.intelligentgascontrol.com](http://www.intelligentgascontrol.com).



IGC® is an optional feature in Flex<sup>2</sup> 3000



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## USER-FRIENDLY MIG/MAG MACHINES

### FEATURES

- Transfer of machine software and latest features by SD card – free download
- Copy of stored settings from machine via SD card to/from pc
- Designed to meet future demands for materials and gas combinations
- Optional feature: IGC® Intelligent Gas Control
- Dedicated program packages

Flex² 3000 control panel  
- switch on, press and weld



MIG welding or MIG brazing



We reserve the right to make changes

POWER SOURCE	FLEX² 3000
Mains voltage +/- 15%,V	3x400 (3 x 230-500 V *)
Fuse, A	16
Effective mains current, A	16.5 (380V)/15.7 (400V)
Mains current, max., A	19.0 (380V)/18.1 (400V)
Power factor	0.90
Efficiency	0.85
Current range MIG, A	15-300
Duty cycle 100% / 20°C, A/V	300
Duty cycle 100% / 40°C, A/V	270/30.8
Duty cycle max. 40°C, A/V	300/80/32.0
Duty cycle max. 20°C, A/V	300/100
Open circuit voltage, V	69-76
Protection class	IP 23
Norm	EN/IEC60974-1, EN/IEC60974-2, EN/IEC60974-5, EN/IEC60974-10
Dimensions (HxWxL) air, mm	906x524x925
Dimensions (HxWxL) water, mm	1051x524x925
Weight air/water, kg	58 /69

\*) Configured with auto transformer

COOLING UNIT	
Cooling capacity (1 l/min) W	1100
Tank capacity, litre	3,5
Flow, bar C°-l/min.	1.2 - 60 - 1.75
Max. pressure, bar	3
Norm	EN/IEC60974-2

### OPTIONAL EQUIPMENT

- Ergonomic, adjustable welding torches for easy access
- Push-pull torch for large operating range
- Wire drive rolls for all types of wire
- Dialog and sequence torch
- Auto transformer 230-500V

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