Cut with Intelligence!

It's time to use
Oxy-Fuel cutting technology

Become the leader
of cutting automation
with us
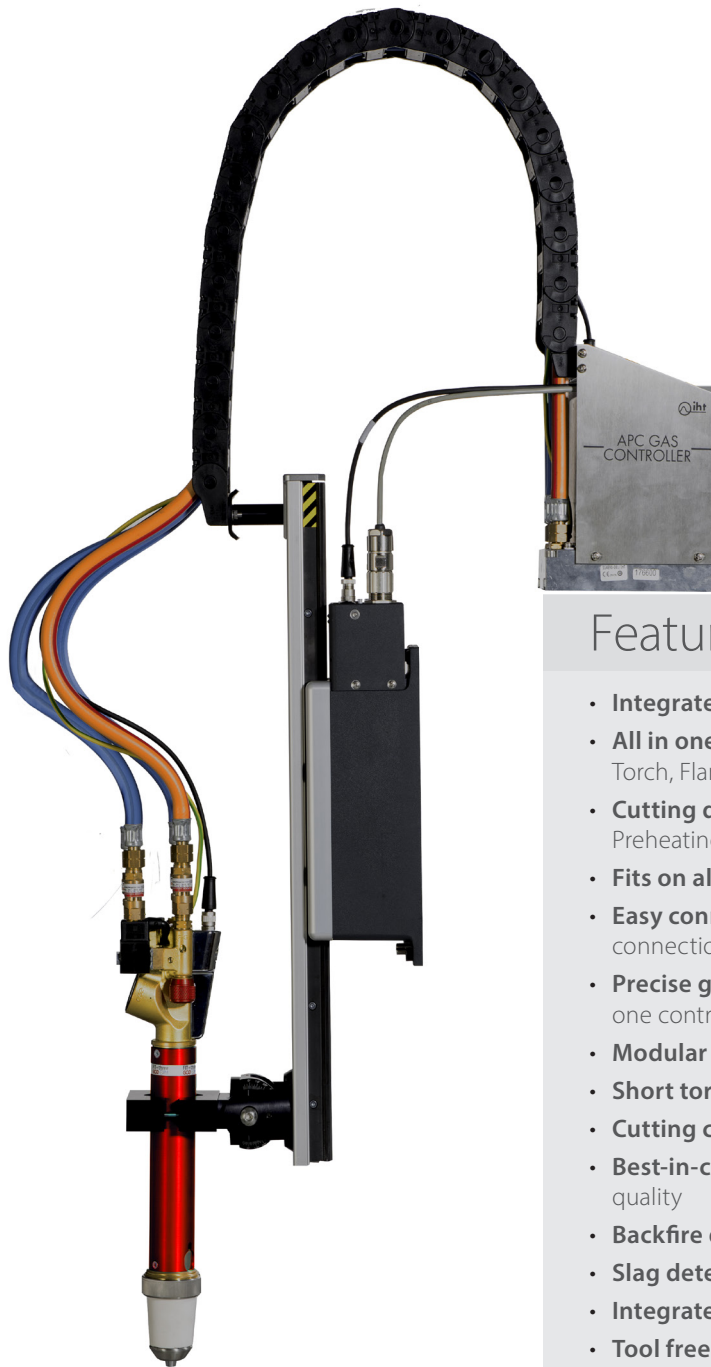
Katalog Deutsch

Oxy-Fuel Cutting Systems

APC Complete system for Automated Process Control
M 4000 Systems for Plasma and Oxy-Fuel cutting
FIT+ Family of Cutting torches for high speed cutting operations

GCE®
Gas Control Equipment

# APC Automated Process Control Complete Cutting Solution

Features

- **Integrated cutting process** - hardware, software and process data
- **All in one package** - Gas Control, Distribution and Safety, Cutting Torch, Flame Ignition, Height Control
- **Cutting database** - ready-to-use parameters for Flame ignition, Preheating, Piercing and Cutting operation
- **Fits on all** - adaptable to every common machine and CNC systems
- **Easy connections** - only requires simple oxygen and fuel gas connection and two cables
- **Precise gas settings** - Gas controller mounted close to the torch, one controller per torch
- **Modular approach** - for high flexibility of configuration
- **Short torch to torch distance** - to minimize material waste
- **Cutting close to edge and kerf -** for optimized nesting
- **Best-in-class Height sensor** - maximized cutting performance and quality
- **Backfire detection** - for safety and longer torch lifetime
- **Slag detection**
- **Integrated Ignition** and Ignition detection
- **Tool free nozzle exchange** - High speed, High quality cutting

Application Fields

- Oxy-Fuel cutting machines for straight cutting of up to 300 mm (12") steel metal sheets
- Single- or multi- torch applications, one APC system for up to 10 stations
- Solution for new cutting machines and retrofits
- Cutting range up to 300 mm (12") thickness with active Height sensor. Hole piercing up to 80 mm (31/2") with Height sensor, above that with Splash Protector
- Cutting with Height sensor on the dry cutting tables

SYSTEM CONFIGURATION MACHINE OPTIONS
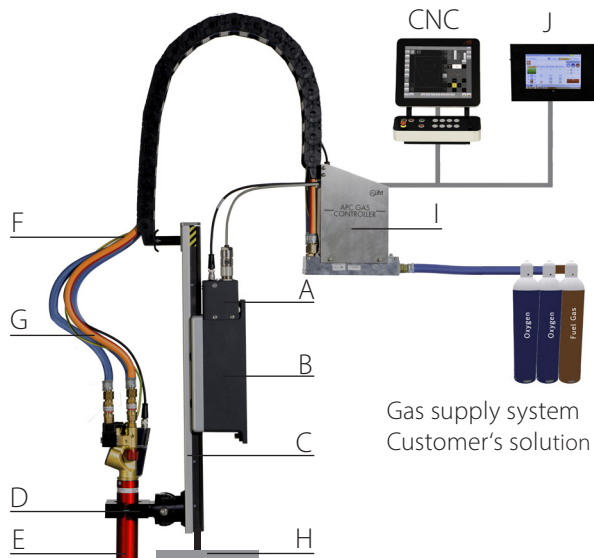
Position	Description
One piece per Station	
Control Unit	A
Linear Drive Body	B
Guiding Rail	C
Bevel Torch Clamp	D
Sensor Torch FIT+ three	E
Hose Clamp	F
Gas Hose Assembly	G
Heat Shield M 4000	H
Gas Controller	I
Power Supply	
Cable FB-RS	
Cable DIG	
Linear Drive Cable	
One piece per Machine	
Operator terminal APC W10	J
Convertor USB/RS485	
Terminator RS485	

For product configuration ask your GCE partner

Gas supply system
Customer's solution

ACCESSORIES

Item No.	Description
140522	Heat Shield FIT+ three
F25910021	Starter Kit FIT+ three PMY (more details on page 18)
F25910022	Starter Kit FIT+ three A (more details on page 18)

SPARE PARTS

Part No.	Description	
140300	Cutting Torch FIT+ three 220/45PMY Blue	W/o Torch Controller, Height Sensor
140301	Cutting Torch FIT+ three 220/45A Blue	W/o Torch Controller, Height Sensor
140303	Cutting Torch FIT+ three 220/45PMY Red	W/o Torch Controller, Height Sensor
140304	Cutting Torch FIT+ three 220/45A Red	W/o Torch Controller, Height Sensor
140502	FIT+ three Torch Controller DIG	

TOOLS

Item No.	Description
100781	Clearance Sensor Ejector
100778	Pin Tool
100779	Torch Setting Tool
140564	Glow Plug Exchange Tools + 5 Glow Plugs

CONSUMABLES (OTHER CUTTING CONSUMABLES ON PAGE 17)

Item No.	Description
140550	Clearance Sensor Kit FIT+ three
140551	Splash Protector
100772	Sensor Holder
100773	Clearance Sensor type B 14/19
100774	O-Ring for Mounting Ring (5 pcs)
100776	Mounting Ring
100780	Contact Pin (5 pcs)

APC drives High Productivity

Low cutting cost per meter ensures the best return on investment. Besides using the right cutting machine design, the automation of the Oxy-Fuel cutting process is important factor of the success. The APC system provides the best torch technology available with extraordinary features, carefully selected best-in-class components and a high level of Oxy-Fuel cutting automation.
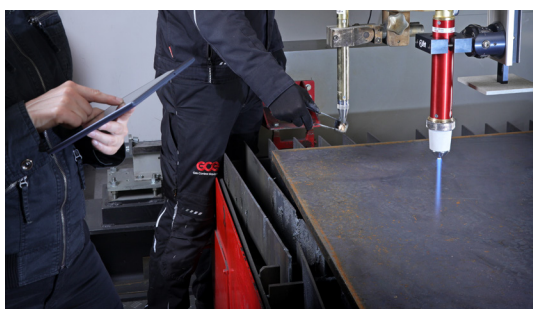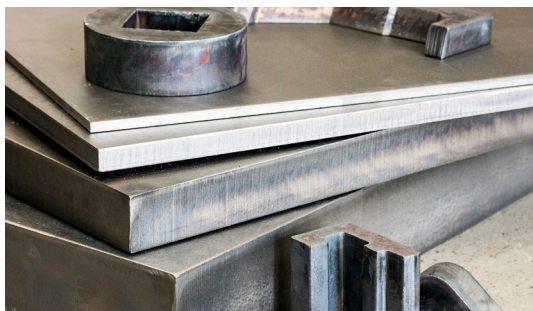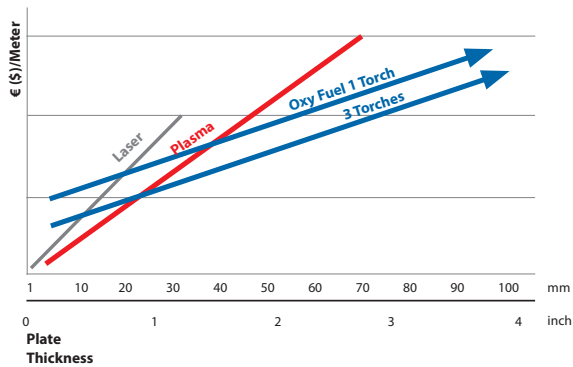
Cutting also the Costs

When cutting plates that are 20 mm (3/4") or thicker, Oxy-Fuel should be considered as primary process. High performance nozzle design increases cutting speed, the most significant factor for process efficiency. Based on the latest statistics, 20-50 mm (3/4"-2") carbon steel plate thickness is the mostly used area for Oxy-Fuel cutting.

High-Speed, High-Quality

Speed and quality of cutting are the key factors for profitability. Both factors are related to the design and quality of the cutting nozzle and correct parameters setting. Usage of a good quality nozzle will result in high cutting speed and perfect quality cut.

Perpendicularity and straightness of the cut in entire thickness range is an advantage of Oxy-Fuel cutting in comparison with the other thermal cutting processes. Cutting results can be improved with the Rapid Cutting Nozzles which have cutting speeds exceeding 1000 mm/min.

Nozzles are equipped with a Tool-Free system for fast and easy handling.

Fully Automated Cutting

Automation ensures maximal productivity and safe cutting environment as it prevents the operator from using the system incorrectly. Dozens of sensors, control elements and software cooperate together to provide optimal operation.
The integrated cutting database ensures consistent high cutting quality and reduced scrap. The parameters in the database have been developed based on many cutting tests with wide variety of conditions.

A fully automated process maximises the efficiency of the cutting machine.

Automated Flame Ignition

Automatic ignition of the flame speeds up the process. The flame can be stopped automatically when the cut is finished and then be easy re-ignited again when preheating of the next piece needs to start. By this an important amount of gases is saved.

The ignition system is integrated inside the torch. It is robust, well protected, and continuously cleaned system giving also the feedback in case when igniting fails.

According to the legislation, access to an operating machine is strictly prohibited so an operation such as manual ignition is no longer possible.
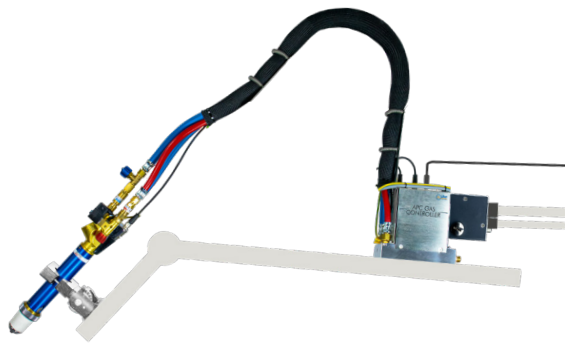
Slag Detection

Slag detection followed by automatic parameters adjustment allows a perfect cut even if slag from previous piercing is in the way. Cut will be lost when not acting while the torch is moving over slag. Alternatively, the slag can be mechanically removed by operator, what is time consuming especially during multi-torch process.

Backfire Safety

Safety should never be compromised. Early detection of any accident helps to prevent material loss and more importantly, personal injury. Detection of sustained backfire minimises the risk of dangerous situations. The flame is stopped automatically when sensors detect the backfire.

For even higher safety, Flashback arrestors will always stop the propagation of the flame inside the system if flashback occurs. They have been carefully selected for use in the Oxy-Fuel cutting process for material up to 300 mm (12").

APC Robot

Special configuration has been designed for 3D cutting operations. Wherever cutting of tubes and profiles, pressure vessel's domes, bevelling of plates or even scrapping or other 3D cutting is needed, APC as complete technology solution is an easy tool for the System Integrator.

Automatic flame ignition, simple connectivity to robot's arm, sharp bevelling angles, high process reliability - all these features make APC an ideal partner of the Robot.

APC Integration

CNC Connections

- **In:** Start Process
- **In:** Clearance Adjust
- **In:** Torch Disable
- **Out:** Ok to Move
- **Out:** Error/Collision/Flashback

In: = from CNC / **Out:**= to CNC

- Operating interface incl. Cutting database is running in Operator Terminal
- Optionally, Operating interface can be embedded in machine CNC
- Hassle free interface to CNC, only "Start Process" from CNC and "Ok to Move" from APC required
- Change Speed output to CNC for piercing process and to reduce speed while moving over slag
- Ask supplier for detail information regarding system integration

M 4000 FIT+

Oxy-Fuel Cutting System with Height Control and Torch with Automated Ignition

- **Cutting system** - consisting of Torch, Flame Ignition, Height Sensing and Lifter
- **Easy integration** - fits on all common machines and CNC systems
- **Modularity** - allows highest flexibility
- **Selection of best components** - ensured high cutting quality and productivity
- **Flashback detection** - makes the process safe and equipment lifetime long

Application Fields

- Oxy-Fuel cutting machines for straight cutting of up to 300 mm sheets
- Single- or multi- torch applications
- Solution for new cutting machines and retrofits
- Cutting range up to 300 mm (12") thickness with active Height sensor. Hole piercing up to 80 mm (31/2") with Height sensor, above that with Splash Protector
- Cutting with Height sensor on the dry tables
- 100 % compatible with the plasma systems IHT M 4000 PCS and M 4000 BAS

CNC Connections

- **In:** Automatic, control of torch height On/Off
- **In:** Clearance Setpoint (0-10 V), torch height setting during cutting process
- **In:** Piercing Setpoint (0-5 V), torch height setting during piercing process
- **In:** Ignite, start ignition command
- **In:** Manual Up, manual torch movement
- **In:** Manual Down, manual torch movement
- **Out:** Error/Collision/Flashback
- **Out:** In Position, confirmation of set position
- **Out:** Upper Limit, highest possible point
- Power Supply: 24 V DC, use of IHT power supply strongly recommended
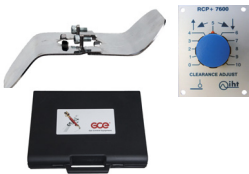
  In: = from CNC / **Out:**= to CNC

SYSTEM CONFIGURATION OPTIONS
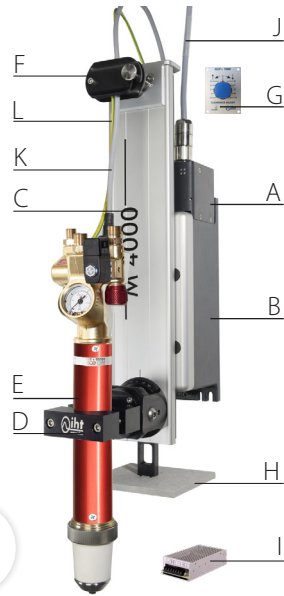
Description	Position
Control Unit	A
Linear Drive Body	B
Guiding Rail	C
Bevel Torch Clamp	D
Sensor Torch FIT+ three	E
Hose Clamp	F
Remote Control Potentiometer	G
Heat Shield M 4000	H
Power Supply	I
Linear Drive Cable	J
Cable DIG	K
Grounding Cable	L

For product configuration ask your GCE partner

ACCESSORIES

Item No.	Description
140522	Heat Shield FIT+ three
101158	Remote Control Potentiometer
F25910021	Starter Kit FIT+ three PMY (more details on page 18)
F25910022	Starter Kit FIT+ three A (more details on page 18)

SPARE PARTS

Part No.	Description	
140300	Cutting Torch FIT+ three 220/45PMY Blue	W/o Torch Controller, Height Sensor
140301	Cutting Torch FIT+ three 220/45A Blue	W/o Torch Controller, Height Sensor
140303	Cutting Torch FIT+ three 220/45PMY Red	W/o Torch Controller, Height Sensor
140304	Cutting Torch FIT+ three 220/45A Red	W/o Torch Controller, Height Sensor
140502	FIT+ three Torch Controller DIG	

TOOLS

Item No.	Description
100781	Clearance Sensor Ejector
100778	Pin Tool
100779	Torch Setting Tool
140564	Glow Plug Exchange Tools + 5 Glow Plugs

CONSUMABLES (OTHER CUTTING CONSUMABLES ON PAGE 17)

Item No.	Description
140550	Clearance Sensor Kit FIT+ three
140551	Splash Protector
100772	Sensor Holder
100773	Clearance Sensor type B 14/19
100774	O-Ring for Mounting Ring (5 pcs)
100776	Mounting Ring
100780	Contact Pin (5 pcs)

M 4000 CAP

Oxy-Fuel Height Control System

- **Height control system** - equipped with capacitive Sensor Ring
- **Easy integration** - fits on all common machines and CNC systems
- **Modularity** - allows highest flexibility
- **Selection of the best components** - ensures high cutting quality and productivity
- Optional Cutting torches **FIT+ two**, **FIT+ one, BIR+ and BGR**

Application Fields

- Oxy-Fuel cutting machines for straight cutting up to 300 mm (12") sheets
- Single- or multi- torch applications
- Solution for new cutting machines and retrofits
- Hole piercing up to 100 mm (4") with Sensor ring
- Cutting with Height sensor on the dry tables
- 100 % compatible with the plasma systems IHT M 4000 PCS and M 4000 BAS

CNC Connections

- **In:** Automatic, controls the torch clearance On / Off
- **In:** Clearance setpoint (0-10 V), adjustment of torch clearance during cutting process
- **In:** Hole piercing setpoint (0-5 V), adjustment of the torch clearance during hole piercing
- **In:** Manual Up, move torch by hand
- **In:** Manual Down, move torch by hand
- **Out:** Error/Collision
- **Out:** In position, setpoint reached
- **Out:** Upper end point, torch in highest position
- Power Supply: 24 V DC, use of the IHT power supply strongly recommended

In: = from CNC / **Out:**= to CNC

SYSTEM CONFIGURATION OPTIONS
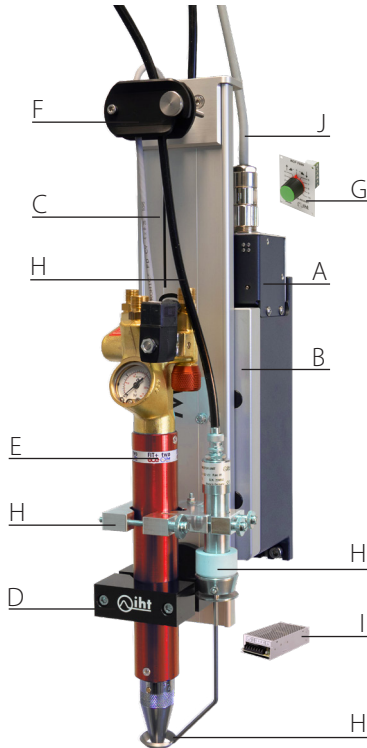
Description	Position
Control Unit	A
Linear Drive Body	B
Guiding Rail	C
Torch Clamp	D
Optional Cutting Torch	E
Hose Clamp	F
Remote Control Potentiometer	G
Sensor Kit	H
Power Supply	I
Linear Drive Cable	J

Machine Cutting torch is optional, needs to be ordered separately.

For product configuration ask your GCE partner

CUTTING TORCHES

GCE FIT+ two PMY/A

Injector cutting torch with integrated ignition and tool-free nozzle system for cutting up to 300 mm

GCE FIT+ one PMY/A

Injector cutting torch with tool-free nozzle system for cutting up to 300 mm

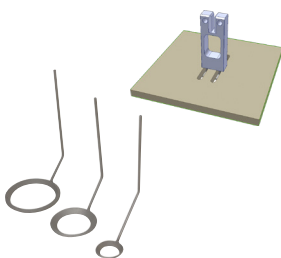### GCE BIR+ PMY/A

Injector cutting torch for cutting up to 300 mm

GCE BGR PMY/A

Nozzle mix cutting torch for cutting up to 500 mm

For product configuration ask your GCE partner

ACCESSORIES

Item No.	Description
100651	Heat Shield
100374	Sensor Kit 1, Ø 34 mm
100375	Sensor Kit 2, Ø 60 mm
100376	Sensor Kit 3, Ø 75 mm

*Sensor kit contains : Sensor Ring, Sensor connector unit, Sensor torch clamp, Coax cable 1,2 mm*

# FIT+ three Analogue

Intelligent Cutting Torch

- **Height sensing system -** Best-in-class
- **Automatic Flame Ignition**
- **Torch Controller** - easy connection to machine CNC
- **Tool-Free system** - nozzles and sensor exchange reduced downtime
- **Integrated control valves** - heating oxygen and fuel gas control for a quicker installation
- **Built-in pressure gauge** - to ensure cutting oxygen pressure that improves cut quality
- **Flashback detection** - for safe operation and a longer life time
- **Two Control modes:**

Integration with Remote Control Potentiometer	Direct CNC Integration
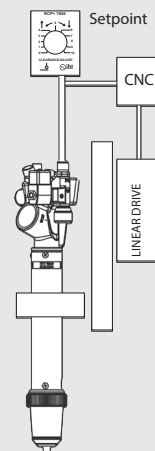
- **In:** Setpoint (0-10 V)
- **In:** Ignite
- **Out:** Deviation Position (0-10 V)
- **Out:** In Position
- **Out:** Error/Collision/Flashback
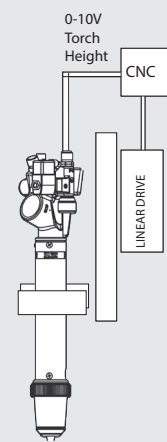
- **Power:** 24 V DC/0,6 A
- **In:** Calibrate height
- **In:** Ignite
- **Out:** Torch Height (0-10 V)
- **Out:** Error/Collision/Flashback

Application Fields

- Cutting machines with integrated z-axis and motor controller
- For cutting up to 300 mm (12")
- Single- or multi- torch applications
- Solution for new cutting machines and retrofits
- Cutting range up to 300 mm (12") thickness with active Height sensor
- Hole piercing up to 80 mm (31/2") with Height sensor, above that with Splash Protector
- Cutting with Height sensor on the dry tables

TORCH CONFIGURATION OPTIONS
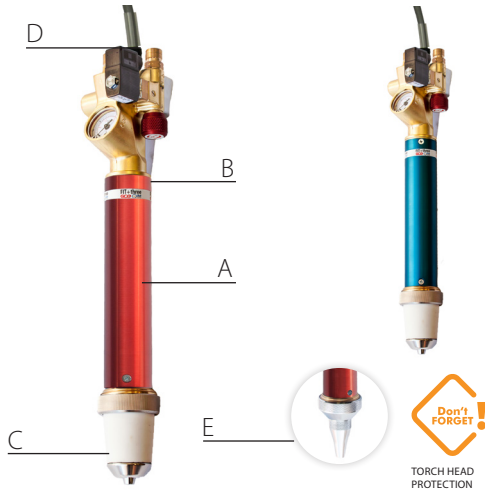
Item No.	Description	Position
140100	Sensor Torch FIT+ three 220/45 PMY ANA Blue (Cutting Torch with Torch Controller) Propane, Natural gas	A, B, C
140101	Sensor Torch FIT+ three 220/45 A ANA Blue (Cutting Torch with Torch Controller) Acetylene	A, B, C
140103	Sensor Torch FIT+ three 220/45 PMY ANA Red (Cutting Torch with Torch Controller) Propane, Natural gas	A, B, C
140104	Sensor Torch FIT+ three 220/45 A ANA Red (Cutting Torch with Torch Controller) Acetylene	A, B, C

Don't FORGET!

TORCH HEAD PROTECTION

ACCESSORIES

Item No.	Description	Position
140522	Heat Shield FIT+ three	
101158	Remote Control Potentiometer + for TC ANA POSITION	
140524L*	TC Cable FIT+ three ANA, one open end with wires 2/5/10/20m	D
F25910021	Starter Kit FIT+ three PMY (more details on page 18)	
F25910022	Starter Kit FIT+ three A (more details on page 18)	
100662	Torch Clamp Basic 35-53 mm	
100668	Bevel Torch Clamp 35-53 mm	

* Choose proper length 2/5/10/20

SPARE PARTS

Item No.	Description	Position
140300	Cutting Torch FIT+ three 220/45PMY Blue*	A
140301	Cutting Torch FIT+ three 220/45A Blue*	A
140303	Cutting Torch FIT+ three 220/45PMY Red*	A
140304	Cutting Torch FIT+ three 220/45A Red*	A
140501	FIT+ three Torch Controller ANA	B

* Without Torch Controller and Height Sensor

TOOLS

Item No.	Description
100781	Clearance Sensor Ejector
100778	Pin Tool
100779	Torch Setting Tool
140564	Glow Plug Exchange Tools +5 Glow Plugs

CONSUMABLES (OTHER CUTTING CONSUMABLES ON PAGE 17)

Item No.	Description	Position
140550	Clearance Sensor Kit FIT+ three	C
140551	Splash Protector	E
100772	Sensor Holder	
100773	Clearance Sensor type B 14/19	
100774	O-Ring for Mounting Ring (5 pcs)	
100776	Mounting Ring	
100780	Contact Pin (5 pcs)	

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FIT+ two

Intelligent Cutting Torch

- **Automatic Flame Ignition** - integrated in the torch
- **High productivity** - due to high-speed cutting nozzles in Oxy-Fuel machine cutting process
- **Fast installation and safe operation** - integrated flame adjustment valves
- **Easier to handle for machine operators** - thanks to tool-free nozzle system

Application Fields

- Oxy-Fuel cutting of straight and shaped cuts in accordance with ISO 9013
- Cutting from 3 to 300 mm
- Hole piercing up to 150 mm
- Can be used with different fuel gases
- Compatible with all cutting machines
- Suitable for new installations as well as retrofitting

Connections

- **In:** Ignite 24 V DC / 1 mA, start ignition command
- **Out:** Error
- **Power:** 24 V DC / 1 A
- Grounding

TORCH CONFIGURATION OPTIONS
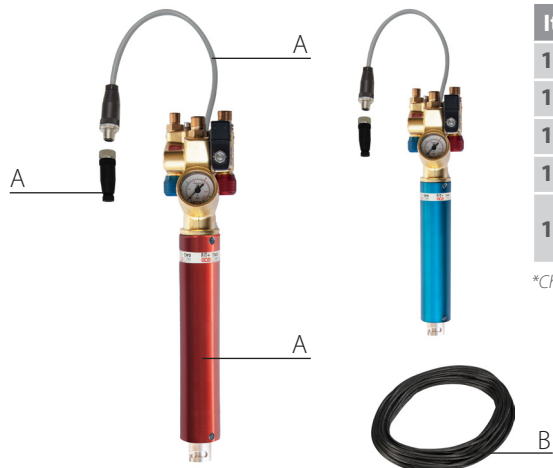
| Item No.	Description	Position
140200	Cutting Torch FIT+ two 220/40 PMY Blue	A
140201	Cutting Torch FIT+ two 220/40 A Blue	A
140203	Cutting Torch FIT+ two 220/40 PMY Red	A
140204	Cutting Torch FIT+ two 220/40 A Red	A
140527L*	Extension Cable FIT+ two Cable open, (10/20/30 m)	B

*Choose proper length 10/20/30 m

ACCESSORIES

Item No.	Description
100383	CSC 500 Height Sensor System with Ring (ext. Ø 34 mm)
100269	Ring Electrode (ext. Ø 34 mm)
100270	Ring Electrode (ext. Ø 60 mm)
100662	Torch Clamp Basic 35-53 mm
100668	Bevel Torch Clamp 35-53 mm

SPARE PARTS / CONSUMABLES / TOOLS (OTHER CUTTING CONSUMABLES ON PAGE 17)

Item No.	Description
100779	Torch Setting Tool
140564	Tools for Glow Plug Exchange + (incl. 5 pcs Glow Plugs)
140165	Glow Plugs

Cutting torch FIT+ two and External Height
Sensor System with Ring Electrode
(ext. Ø 34 mm)

CSC 500

FIT+ two

13
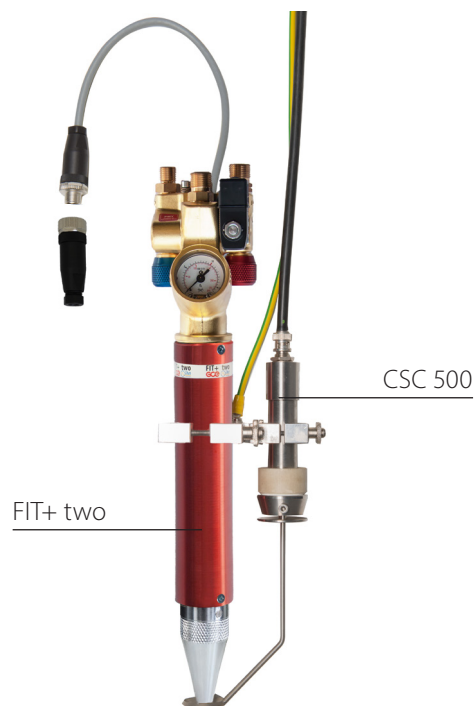
FIT+ one

High Performance Cutting Torch

- **Unique torch -** for Oxy-Fuel machine cutting technology
- **Product concept** - created thanks to the long-term partnership with the customers
- **High productivity** - due to high-speed cutting nozzles in Oxy-Fuel machine cutting process
- **Safe operation** - high resistance against flashback ensured by integrated COOLEX® and axial injector with application of Resonator Mixing system in acetylene variants
- **Work-time efficiency** - minimalization of nozzle exchange time
- **Easy to handle -** Tool-Free nozzle exchange without any wrench
- **One type of heating nozzle**
- **Extended lifetime** of consumable nozzles
- **Conform to ISO 5172**

Application Fields

- Oxy-Fuel cutting of straight and shaped cuts in accordance with ISO 9013
- Oxy-Fuel cutting from 3 to 300 mm
- Hole piercing up to 150 mm
- Can be used with different fuel gases
- Compatible with all cutting machines
- Suitable for new installations as well as retrofitting

TORCH CONFIGURATION OPTIONS

Item No.	Description
0766122	Cutting Torch FIT+ one 220/32PMY
0766165	Cutting Torch FIT+ one 320/32PMY
0766224	Cutting Torch FIT+ one 110/32PMY
0766121	Cutting Torch FIT+ one 220/32A
0766164	Cutting Torch FIT+ one 320/32A
0766223	Cutting Torch FIT+ one 110/32A

For heating and cutting nozzles see page 17

ACCESSORIES (OTHER CUTTING CONSUMABLES ON PAGE 17)

Item No.	Description
100383	CSC 500 Height Sensor system with Ring (ext. Ø 34 mm)
100926	External Ignition System Propane
100925	External Ignition System Acetylene
F25910001	Strip Cutting Head*
F25910002	Bevel Cutting Head*

FIT+ one usage only

Item No.	Description
100661	Torch Clamp Basic 30-35 mm
100635	Bevel Head 3D 46° for the Torch Clamp

Torch Clamp
with 3D Bevel Head

M4000 CAP Height Control System
with FIT+ one cutting torch

CSC 500

IGNITION

FIT+ one Cutting Torch with External Flame
Ignition and CSC 500 Height Sensor

General

Heating oxygen/ fuel gas mixture

Cutting nozzle

Flame & heat

Spatters

Cutting oxygen channel

Flame & heat & spatters & dirt

Heating flame

Workpiece

Conventional system

Heating oxygen/ fuel gas mixture

Cutting nozzle

Flame & heat

Spatters

Cutting oxygen channel

Cooling oxygen flow

Heating flame

Workpiece

System with COOLEX®

1   2   3
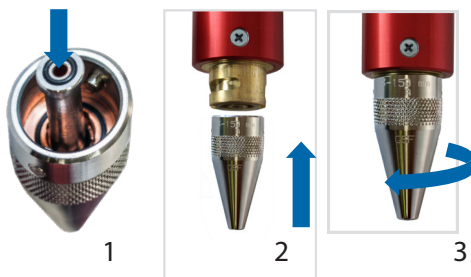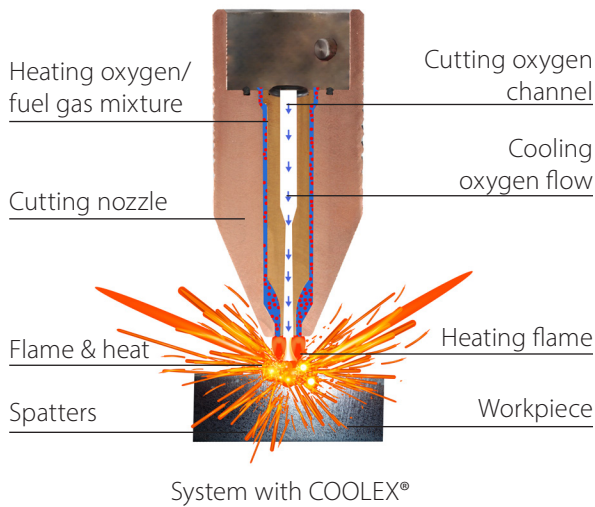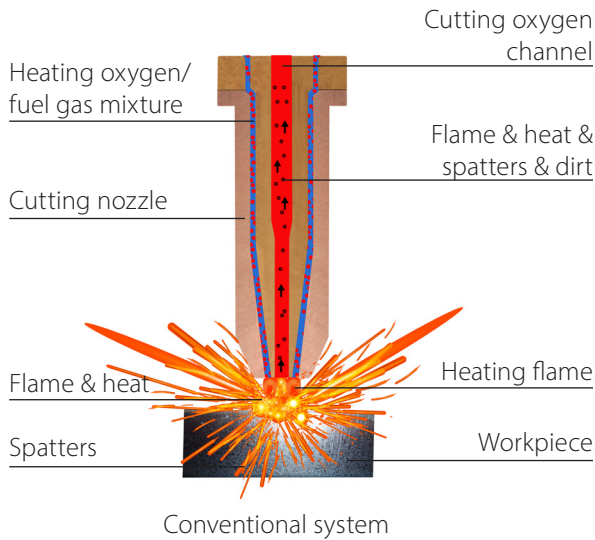
General Features and Benefits

- All torches and nozzles conform to ISO 5172
- High speed cutting nozzles with improved performance
- Increased cutting speed with Rapid Cutting oxygen curtain nozzles
- One type of Heating Nozzle for all fuel gases and all types of Cutting Nozzles

Integrated COOLEX® System

- Long torch lifetime
- Higher cutting quality with constant dimensions of the cutting oxygen channel
- Extends operational life of both Cutting and Heating Nozzles

RMS - Resonator Mixing System in Acetylene Range

- Safe operation with axial spiral injector
- Constant flame power with homogenous mixture of fuel gas and heating oxygen

Tool-Free Nozzle Connection

- Single handed operation thanks to bayonet type connector
- Less time needed to change nozzles
- Savings in gas use as appropriately sized nozzle can be used for plate being cut

Gas Connections

- Cutting oxygen G3/8"
- Heating oxygen G1/4"
- Fuel gas G3/8"LH
- Adapters are available for other connections
- UNF connections available

3 Step Nozzle Change, Tool-Free

- **Step 1**
  Place inner Cutting Nozzle into outer Heating Nozzle
- **Step 2**
  Locate the pins of the outer Heating Nozzle in the grooves of the Torch Head
- **Step 3**
  Manually turn the outer Heating Nozzle through 90° until the pins reach the end of the groove

CONSUMABLES AND SPARE PARTS
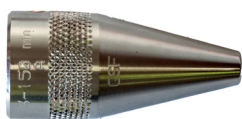
Item No.	Description	Heating Nozzle
0769932	GSF Heating Nozzle APMYF 3-150 mm	
0769934	GSF Heating Nozzle APMYF 150-300 mm	
0769935	HDF Heating Nozzle APMYF 150-300 mm	
0769913	PSF High Speed Cutting Nozzle PMY 3-6 mm	0769932
0769914	PSF High Speed Cutting Nozzle PMY 7-15 mm	0769932
0769915	PSF High Speed Cutting Nozzle PMY 15-25 mm	0769932
0769916	PSF High Speed Cutting Nozzle PMY 25-40 mm	0769932
0769917	PSF High Speed Cutting Nozzle PMY 40-60 mm	0769932
0769918	PSF High Speed Cutting Nozzle PMY 60-100 mm	0769932
0769919	PSF High Speed Cutting Nozzle PMY 100-150 mm	0769932
0769920	PSF High Speed Cutting Nozzle PMY 150-200 mm	0769934
0769921	PSF High Speed Cutting Nozzle PMY 200-250 mm	0769934
0769922	PSF High Speed Cutting Nozzle PMY 250-300 mm	0769934
F25510001	PRC Rapid cutting Nozzle PMY 5-40 mm	0769932
F25510002	PRC Rapid cutting Nozzle PMY 5-70 mm	0769932
0769923	ASF High Speed Cutting Nozzle A 3-5 mm	0769932
0769924	ASF High Speed Cutting Nozzle A 6-10 mm	0769932
0769925	ASF High Speed Cutting Nozzle A 10-25 mm	0769932
0769926	ASF High Speed Cutting Nozzle A 25-40 mm	0769932
0769927	ASF High Speed Cutting Nozzle A 40-60 mm	0769932
0769928	ASF High Speed Cutting Nozzle A 60-100 mm	0769932
0769929	ASF High Speed Cutting Nozzle A 100-150 mm	0769932
0769930	ASF High Speed Cutting Nozzle A 150-230 mm	0769934
0769931	ASF High Speed Cutting Nozzle A 230-300 mm	0769934
F25510003	ARC Rapid Cutting Nozzle A 3-40 mm	0769932
F25510004	ARC Rapid Cutting Nozzle A 3-70 mm	0769932

Item No.	Description
0764948	O-Ring Kit for Cutting and Heating Nozzles (10+10 pcs)

ACCESSORIES

Item No.	Description
14008408	Flashback Arrestor Cutting Oxygen G3/8"
14008263	Flashback Arrestor Heating Oxygen G1/4"
14008278	Flashback Arrestor Fuel gas G3/8"LH
14056015	Adjustment Valve Cutting Oxygen G3/8"
14056016	Adjustment Valve Heating Oxygen G1/4"
14056017	Adjustment Valve Fuel gas G3/8"LH

TOOLS

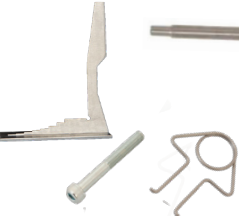| Item No.	Description
14008157	Brass Cleaning Brush
14056010P	Cleaning Needle for Cutting Oxygen Channels

Starter kit for GCE FIT+® family

- Each start kit compiled to offer everything needed to start Oxy-Fuel Cutting.
- Variants for different gas and cutting torch types.
- Saving time when ordering individual parts - **get all in one!**

STARTER KIT CONTENT

Item No.	Description
0769932	HEATING NOZZLE GSF 3-100 APMY
F25510007	CUTTING NOZZLE 5 PCS PACK PSF 7-100MM
F25510008	CUTTING NOZZLE 5 PCS PACK ASF 6-100MM
14008263	FLASHBACK ARRESTOR HEATING O_2 G1/4
14008278	FLASHBACK ARRESTOR FUEL GAS G3/8LH
14008408	FLASHBACK ARRESTOR CUTTING O_2 G3/8
0764948	SPARE O-RINGS FOR CUTTING AND HEATING NOZZLES (10+10)
100773	CLEARANCE SENSOR B 14/19
100774	SENSOR O-RING (5PCS)
100780	CONTACT PIN (5PCS)
140551	SPLASH PROTECTOR
14056010P	CONICAL CLEANING NEEDLE
14008157	SOFT BRASS BRUSH
100781	CLEARANCE SENSOR EJECTOR
100778	PIN TOOL
100779	TORCH SETTING TOOL
SPP25920010	IGNITION INJECTOR TOOL

STARTER KIT VARIANTS

Item No.	Description
F25910021	START KIT FIT+ three PMY
F25910022	START KIT FIT+ three A
F25910023	START KIT FIT+ two PMY
F25910024	START KIT FIT+ two A

Item No.	F25910021 START KIT FIT+ three PMY	F25910022 START KIT FIT+ three A	F25910023 START KIT FIT+ two PMY	F25910024 START KIT FIT+ two A
0769932	×	×	×	×
F25510007	×	-	×	-
F25510008	-	×	-	×
14008263	×	×	×	×
14008278	×	×	×	×
14008408	×	×	×	×
0764948	×	×	×	×
100773	×	×	-	-
100774	×	×	-	-
100780	×	×	-	-
140551	×	×	-	-
14056010P	×	×	×	×
14008157	×	×	×	×
100781	×	×	-	-
100778	×	×	-	-
100779	×	×	×	×
SPP25920010	×	×	×	×

GCE
Global Leader in Oxy-Fuel Technology

GCE is a world leading company in the field of Oxy-Fuel and Gas Control Equipment with over 100 years of experience in the handling of industrial, medical and specialty gases. The GCE Group has grown rapidly since its creation and now is a leader in the European gas equipment industry.
The Group's Headquarter is based in Malmö, Sweden. The major manufacturing centres are in the Czech Republic, China and Germany. The Group now employs more than 950 people who are all ready to fulfil the expectations of their customers worldwide.

The Group's product portfolio covers a wide variety of applications, from simple pressure regulators and torches for welding and cutting, to sophisticated gas supply systems for medical and electronic industry applications. Product design is based on knowledge and expertise that has been built up in Oxy-Fuel cutting over the years with the primary concerns being safety and reliability. GCE provides innovative solutions and complete customer service.

IHT Automation
With the Customer in View

Our story starts and ends with the customer. Our customers have always been the main source of ideas and requirements which we later transform into new Products and Services. Customers and their applications are the background of our long-term experience and drive all of our daily activities in Product Development, Production, and Sales and Marketing.

We are always looking for market opportunities or for the possibility for improvement with our customers and partners all over the world. That way we have found that the Oxy-Fuel cutting, whilst one of the most reliable steel cutting technologies has been struggling and lacking focus and so we came with our "ReThink" concept which was to collect experience and data from the industry. Once we had finished, we then examined the collected information and discovered that automating the cutting process was what most of customers were missing. That led to the re-wake of "Autogen", an Automated cutting technology.

"The boundaries of cutting quality and speed can only be reached thanks to high-end torches and automated systems."

Kordian Lipski
Product Manager

"Autogen technology used in a modern way opens up new opportunities in manufacturing."

Martin Roubicek
Sales and Marketing Manager

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