



TORCH CUTTING TECHNOLOGY

NOZZLES & TORCHES



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Torch cutting technology - Nozzles & torches

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Cutting nozzles FCN

External mixing cutting nozzles with patented geometry for cutting material thicknesses of up to 700 mm

The FCN series is a further development of the PB nozzles optimised together with universities

Torch: Prestocut 600 Series
Fuel gas: Natural gas / Propane

- Cone gasket
- Increased cutting speed
- Low cutting oxygen consumption
- Smooth cutting surfaces
- Increased heat output
- Narrow kerf
- Material thickness up to 700mm

		FCN 150	FCN 300	FCN 500	FCN 700
Maximum cut thickness	mm	150	300	500	700
Cutting oxygen consumption	Nm ³ /h	33	65	77	140
Cutting oxygen pressure	bar	10,5	10	8	10
Heating oxygen consumption	Nm ³ /h	9	9	17	17
Heating oxygen pressure	bar	0,5	0,5	2,1	2,0
Fuel gas consumption	Nm ³ /h	26	26	38	38
Fuel gas pressure	bar	0,4	0,4	1,9	1,9
Cutting kerf	mm	5-6	6-8	7-9	15

The specified values apply to operation with natural gas.
Pressure values directly at the torch inlet (distance to the control station must be observed)



Cutting nozzles FraGa

External and internal mixing cutting nozzles with flat gasket for cutting material thicknesses up to 700mm

FraGa was developed for standard flat gasket torches. Reduction of gas consumption by up to 30%

Torch: Flat gasket torches
Fuel gas: Natural gas / Propane

- Flat gasket
- Optimised gas and oxygen consumption
- Long service life
- Easy maintenance
- Narrow kerf
- Smooth cutting surfaces

		FraGa 15ES	FraGa 30E	FraGa 30ES	FraGa 50ES	FraGa 70ES
Maximum cut thickness	mm	50-150	150-350	150-350	300-500	450-700
Cutting oxygen consumption	Nm ³ /h	30	60	57	78	91
Cutting oxygen pressure	bar	10	10	10	8	7
Heating oxygen consumption	Nm ³ /h	9	16	9	18	16
Heating oxygen pressure	bar	0,9	2	0,9	2,1	2
Fuel gas consumption	Nm ³ /h	26	24	26	35	35
Fuel gas pressure	bar	1,1	1,5	1,1	1,9	1,9
Cutting kerf	mm	4	5,5	6	7	9

The specified values apply to operation with natural gas.
Pressure values directly at the torch inlet (distance to the control station must be observed)



Cutting nozzles PB - PM06

Torch cutting nozzles with cone seal for cutting hot and cold material up to 600 mm.

The PB series is characterised by low edge melting and long service life thanks to easy maintenance.

Torch: Prestocut 600 Series
Fuel gas: Natural gas / propane

- Cone seal
- High heat output
- Long service life
- Easy maintenance
- Material thickness up to 600mm

		PB 200-PM06	PB 300-PM06	PB 400-PM06	PB 600-PM06
Maximum cut thickness	mm	200	300	400	600
Cutting oxygen consumption	Nm ³ /h	34	50	67	100
Cutting oxygen pressure	bar	10	10	10	10
Heating oxygen consumption	Nm ³ /h	4	4	4	4
Heating oxygen pressure	bar	0,5	0,5	0,5	0,5
Fuel gas consumption	Nm ³ /h	10	10	10-15	15
Fuel gas pressure	bar	0,4	0,4	0,4-0,5	0,5
Cutting kerf	mm	5-6	6-7	7-8	8-10

The specified values apply to operation with natural gas.
Pressure values directly at the torch inlet (distance to the control station must be observed)



Cutting nozzles PB - PM12

Torch cutting nozzles with cone seal for cutting hot and cold material up to 1200 mm.

The PB series is characterised by low edge melting and long service life thanks to easy maintenance.

Torch: Prestocut 1200 Series
Fuel gas: Natural gas / propane

- Cone seal
- High heat output
- Long service life
- Easy maintenance
- Material thickness up to 1200mm

		PB 300-PM12	PB 600-PM12	PB 900-PM12	PB 1200-PM12
Maximum cut thickness	mm	300	600	900	1200
Cutting oxygen consumption	Nm ³ /h	35-60	60-120	140-200	200-300
Cutting oxygen pressure	bar	5-8	6-9	7-10	8-11
Heating oxygen consumption	Nm ³ /h	5-7	7-10	10-18	18-30
Heating oxygen pressure	bar	0,2-0,3	0,3-0,5	0,4-0,6	0,6-1
Fuel gas consumption	Nm ³ /h	10-15	15-30	30-35	55-80
Fuel gas pressure	bar	0,2-0,3	0,3-0,5	0,5-0,8	0,8-1
Cutting kerf	mm	5-10	10-15	15-20	18-35

The specified values apply to operation with natural gas.
Pressure values directly at the torch inlet (distance to the control station must be observed)



Cutting nozzles PB - PM15

Flame cutting nozzles with cone seal for cutting hot and cold material up to 1500 mm.

The PB series is characterised by low edge melting and long service life due to easy maintenance.

Torch: Prestocut 1500 Series
Fuel gas: Natural gas / propane

- Cone seal
- High heat output
- Long service life
- Easy maintenance
- Material thickness up to 1500mm

		PB 1500-PM15	PB 2000-PM15
Maximum cut thickness	mm	1500	2000
Cutting oxygen consumption	Nm ³ /h	375-440	440-500
Cutting oxygen pressure	bar	8	7-10
Heating oxygen consumption	Nm ³ /h	33	35-45
Heating oxygen pressure	bar	0,6-1	0,6-1
Fuel gas consumption	Nm ³ /h	100	100-140
Fuel gas pressure	bar	1,2	1,2-1,8
Cutting kerf	mm	25-50	30-70

The specified values apply to operation with natural gas.
Pressure values directly at the torch inlet (distance to the control station must be observed)



Cutting nozzles PB - PM20

Flame cutting nozzles for cutting hot and cold material up to 2000 mm.

The PB series is characterised by low edge melting and long service life due to easy maintenance.

Torch: GIGANT 2000
Fuel gas: Natural gas / propane

- High heat output
- Long service life
- Easy maintenance
- Material thickness up to 2000mm

		PB 1200-PM20	PB 2000-PM20	PB 2500-PM20
Maximum cut thickness	mm	1500	2000	2500
Cutting oxygen consumption	Nm ³ /h	220-320	375-500	450-600
Cutting oxygen pressure	bar	7-10	5-7	5-7
Heating oxygen consumption	Nm ³ /h	23-30	33	33
Heating oxygen pressure	bar	0,2-0,3	0,3	0,3
Fuel gas consumption	Nm ³ /h	70-90	100	100
Fuel gas pressure	bar	0,8-1,1	1,2	1,2
Cutting kerf	mm	15-40	25-70	65-100

The specified values apply to operation with natural gas.
Pressure values directly at the torch inlet (distance to the control station must be observed)



Cutting nozzles

DB - PM06

Torch cutting nozzles with cone seal for cutting hot and cold material up to 600 mm thick.

The DB series is used exclusively as a spare part for existing systems with external ignition.

- Cone seal
- Efficient media consumption
- Long service life
- High heat output
- Narrow kerf

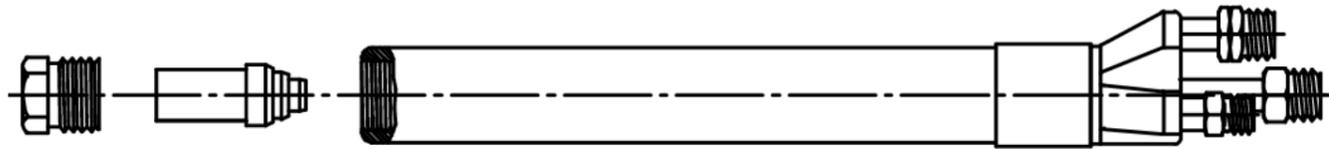
Torch: Prestocut 600 Series

Fuel gas: Natural gas / propane

		DB 300-PM06	DB 600-PM06
Maximum cut thickness	mm	300	600
Cutting oxygen consumption	Nm ³ /h	50	100
Cutting oxygen pressure	bar	10	10
Heating oxygen consumption	Nm ³ /h	12,5	4-11
Heating oxygen pressure	bar	1,0	0,3-0,7
Fuel gas consumption	Nm ³ /h	17	6-9
Fuel gas pressure	bar	0,3-0,5	0,2-0,3
Cutting kerf	mm	6-7	8-10

The specified values apply to operation with natural gas.
Pressure values directly at the torch inlet (distance to the control station must be observed)

Cutting torch series **PRESTOCUT 600**



The **PRESTOCUT 600** series represents a highly developed solution for cutting of cold and hot unalloyed and alloyed materials with a thickness of up to 700 mm, specially designed for use in continuous casting.

The robust torches are characterised by their metallurgical-grade, robust design.

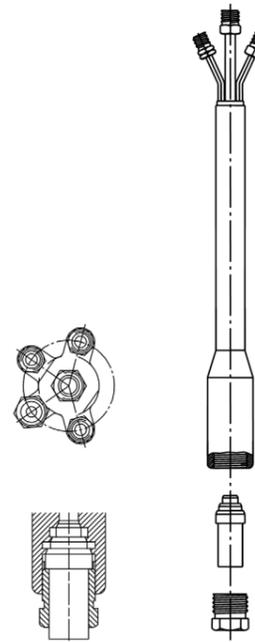
DESIGN FEATURES

- **Robust construction:** Specially developed for the conditions in metallurgical plants.
- **Easy maintenance and repair:** Separated cutting nozzle and pressure screw prevents twisting and wear on the sealing surface.
- **Optimised water cooling:** Ensures effective cooling right up to the nozzle seat
- **Standard and special lengths:** Available in 500 mm and 1,000 mm lengths. (customised special lengths on request)
- **High-quality materials:** Stainless steel shaft pipes with diameters of 32 and 50 mm and brazed connections guarantee durability and stability.

- **Efficient connections:** Connections in accordance with DIN EN 560 minimise pressure losses.
- **Precision-manufactured cone design:** Large sealing surfaces ensure optimum tightness and excellent heat dissipation.
- **Flexible ignition options:** Integrated pilot flame or separate pilot burner.

These features make the **PRESTOCUT 600** series a reliable and efficient choice for demanding industrial cutting applications that require both precision and robustness.

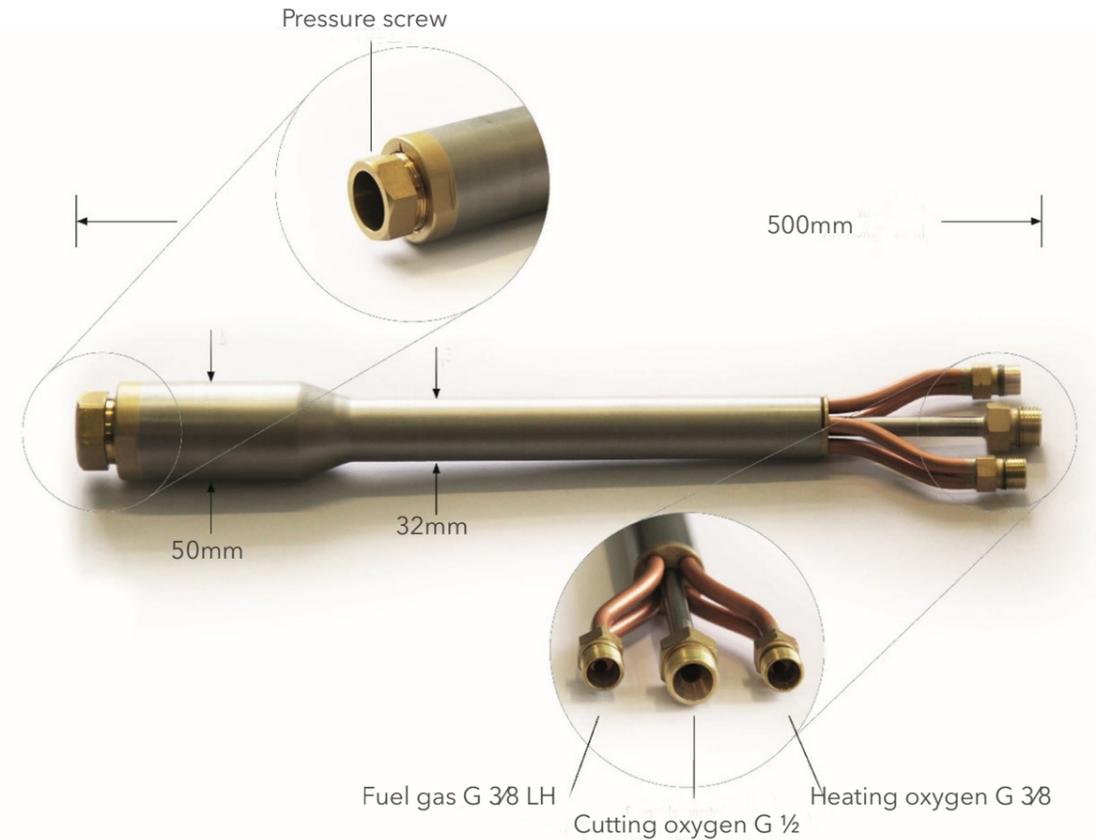
Cutting torch series 600 **Prestocut 635**



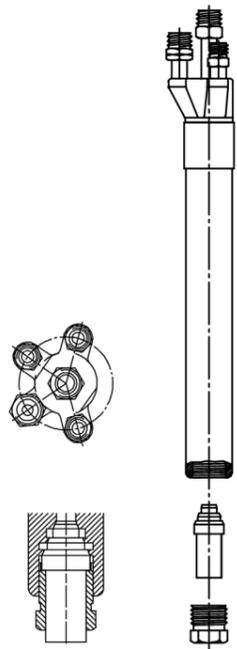
Robust, precision-manufactured cutting torch with stainless steel shaft, brazed connections and large connections in accordance with DIN EN 560.

Optimum water cooling and tightness, easy to maintain with integrated pilot flame. Available in standard and special lengths.

- Material thickness up to 700mm
- Connections according to DIN EN 560
- Heating gases: natural gas, propane, acetylene
- Water cooling



Cutting torch series 600 Prestocut 655

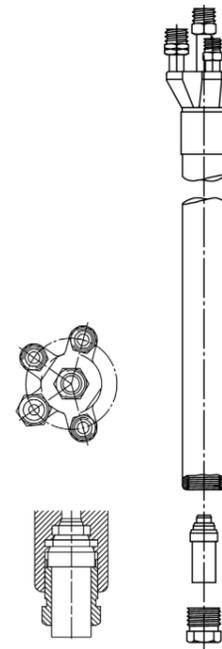


The **Prestocut 600** series is suitable for cutting cold or hot, unalloyed and alloyed materials, preferably in the continuous casting sector.

A cutting aid such as iron powder for cold or hot material may be necessary depending on the material composition, thickness and cross-section (e.g. round).

- Cutting material thickness up to 700mm
- Connections according to DIN EN 560
- Heating gases: natural gas, propane, acetylene
- Water cooling

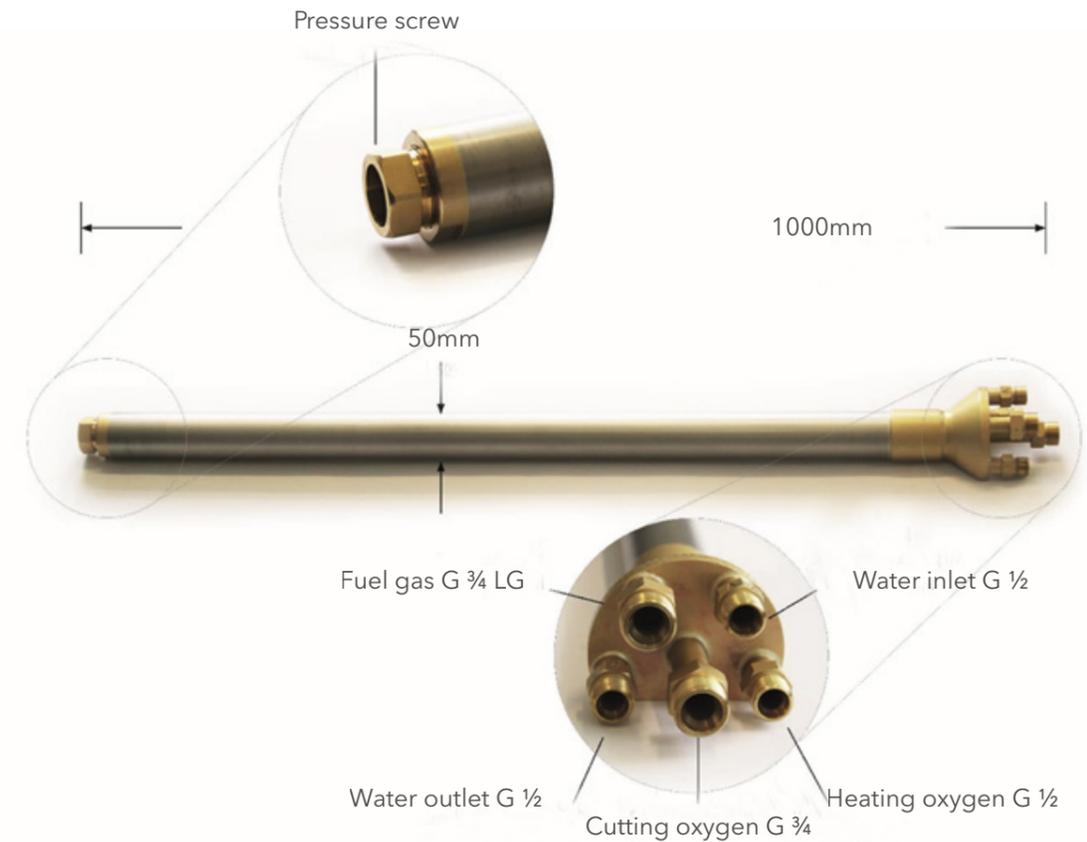
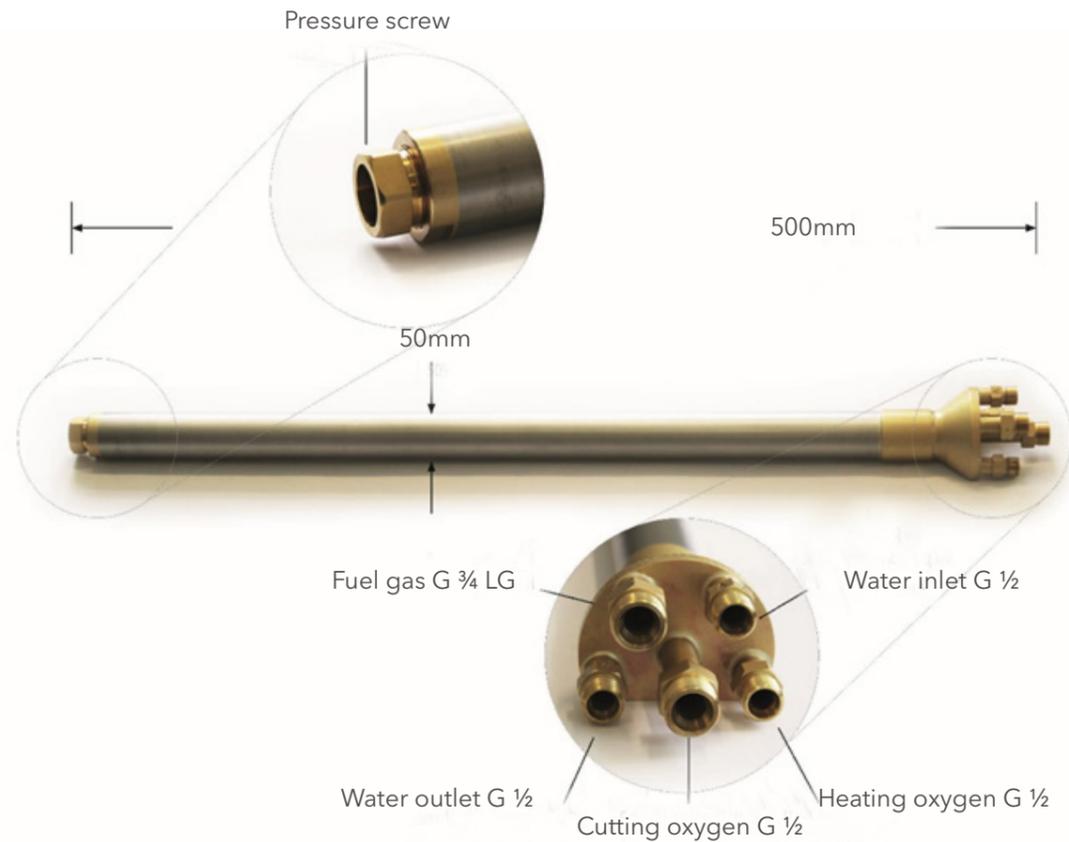
Cutting torch series 600 Prestocut 651



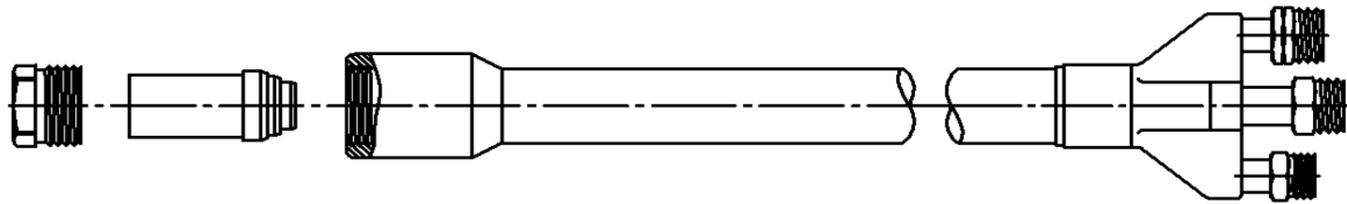
The **Prestocut 600** series is suitable for cutting cold or hot, unalloyed and alloyed materials, preferably in the continuous casting sector.

A cutting aid such as iron powder for cold or hot material may be necessary depending on the material composition, thickness and cross-section (e.g. round).

- Cutting material thickness up to 700mm
- Connections according to DIN EN 560
- Heating gases: natural gas, propane, acetylene
- Water cooling



Cutting torch series PRESTOCUT 1200



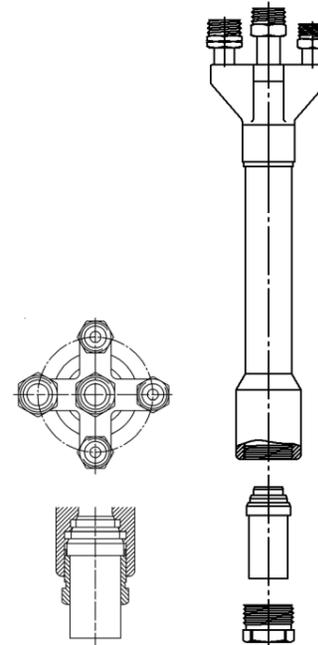
The **PRESTOCUT 1200** series offers an advanced solution for cutting cold and hot, unalloyed and alloyed materials with a thickness of up to 1200 mm, ideal for use in continuous casting.

The robust torches are characterised by their smelter-compatible, robust design.

DESIGN FEATURES

- **Robust design:** Specially developed for the conditions in steel works.
 - **Easy maintenance and repair:** The separation of the cutting nozzle and pressure screw prevents twisting and wear on the sealing surface.
 - **Optimum water cooling:** Ensures effective cooling right up to the nozzle seat.
 - **Standard lengths:** Available in 500 mm and 1,000 mm lengths.
 - **High-quality materials:** Stainless steel shaft pipe with a diameter of 50 mm and brazed connections guarantee durability and stability.
- **Large connections in accordance with DIN EN 560** minimise pressure losses.
 - **Precision-manufactured cone design:** Large surfaces ensure optimum tightness and excellent heat dissipation.
- These features make the PRESTOCUT 1200 series a reliable and efficient choice for demanding industrial cutting applications that require maximum precision and robustness.

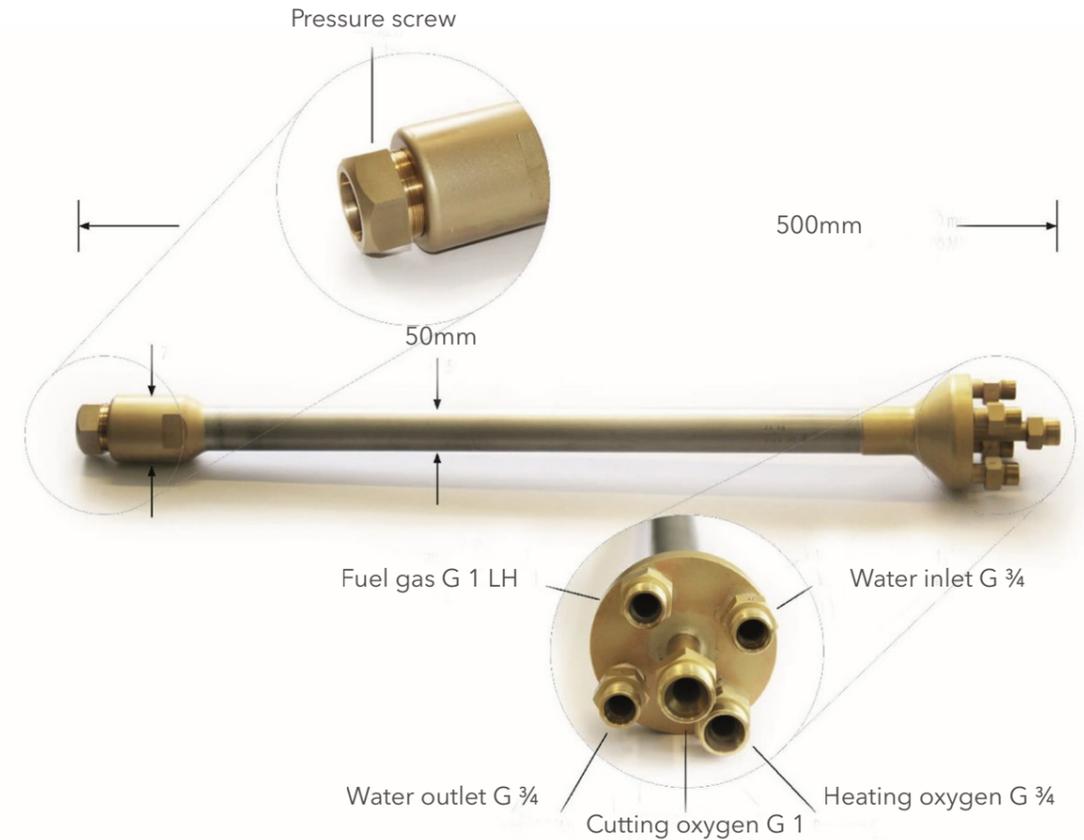
Cutting torch series 1200 Prestocut 1255



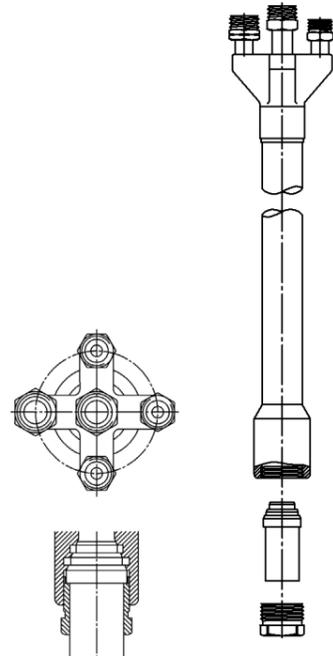
The **Prestocut 1200** series is suitable for cutting cold or hot, unalloyed and alloyed materials, preferably in the continuous casting sector.

A cutting aid such as iron powder for cold or hot material may be necessary depending on the material composition, thickness and cross-section (e.g. round).

- Cutting material thickness up to 1200mm
- Connections according to DIN EN 560
- Heating gases: natural gas, propane
- Water cooling



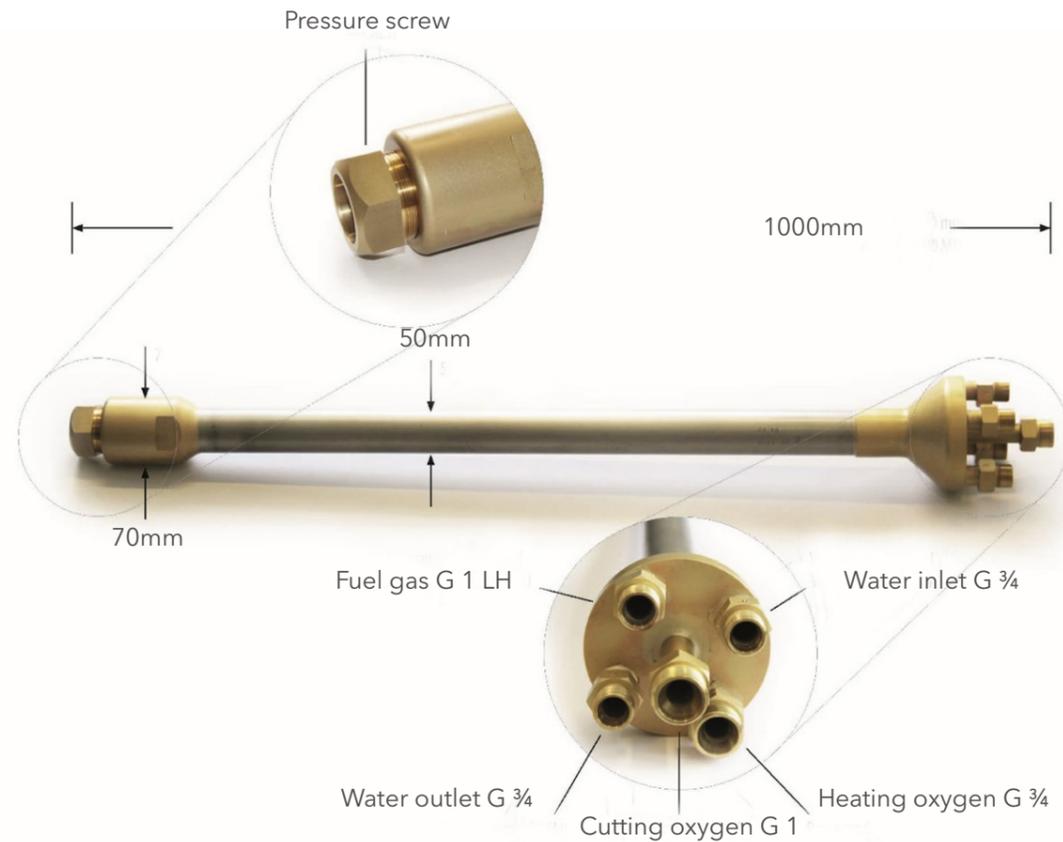
Cutting torch series 1200 **Prestocut 1251**



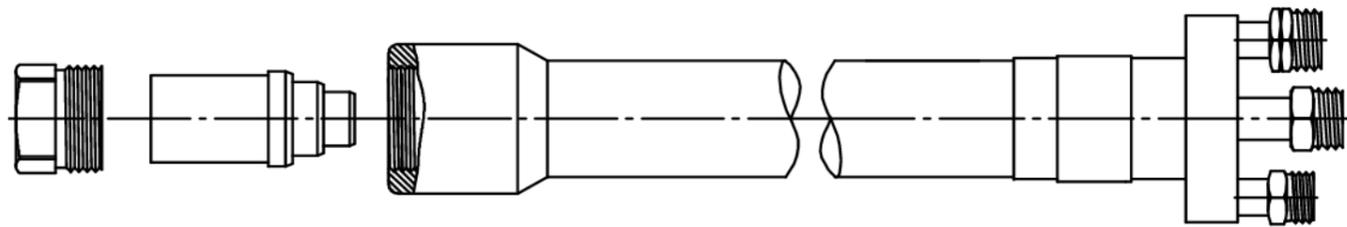
The Prestocut 1200 series is suitable for cutting cold or hot, unalloyed and alloyed materials, preferably in the continuous casting sector.

A cutting aid such as iron powder for cold or hot material may be necessary depending on the material composition, thickness and cross-section (e.g. round).

- Cutting material thickness up to 1200mm
- Connections according to DIN EN 560
- Heating gases: natural gas, propane
- Water cooling



Cutting torch series **PRESTOCUT 1500**

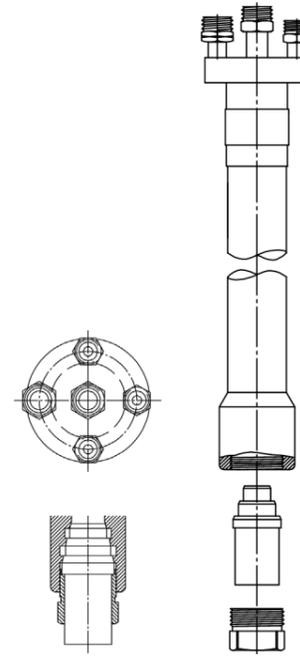


The **PRESTOCUT 1500** series is a high-performance solution for cutting cold and hot, non-alloyed and alloyed materials with a thickness of up to 2000 mm, specifically designed for demanding industrial applications.

DESIGN FEATURES

- **Robust, mill-compatible design:** Developed to withstand the harsh conditions in steel mills.
 - **Easy maintenance and repair:** The separation of the cutting nozzle and pressure screw prevents twisting and wear on the sealing surface.
 - **High-quality materials:** Stainless steel shaft tube with a diameter of 70 mm and brazed joints for increased durability and stability.
 - **Optimized water cooling:** Ensures effective cooling right up to the nozzle seat.
 - **Standard lengths:** Available in 1,000 mm length
 - **Large-dimensioned connections according to DIN EN 560:** Minimize pressure losses.
 - **Precisely manufactured cone design:** Large sealing surfaces guarantee optimal tightness and excellent heat dissipation.
 - **Integrated pilot flame.**
- These features make the **PRESTOCUT 1500** series a reliable and efficient option for high performance torch cutting. framag torch cutting technology promises the highest precision and maximum performance

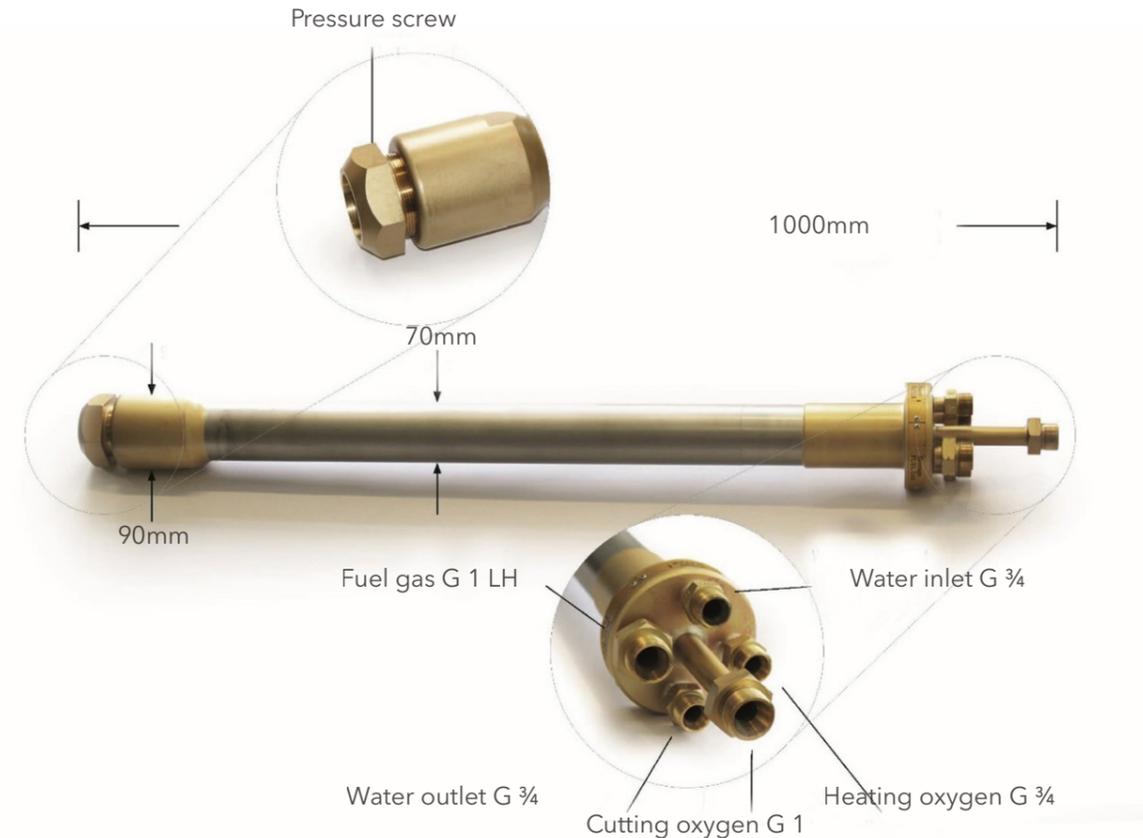
Cutting torch series 1500 **Prestocut 1571**



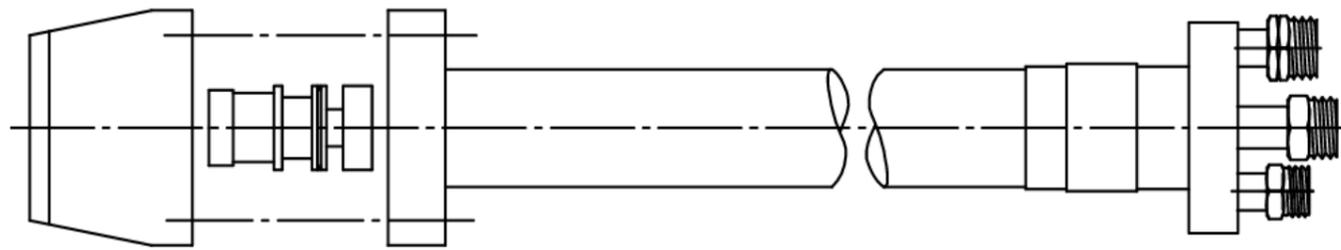
The **Prestocut 1500** series is suitable for cutting cold or hot, unalloyed and alloyed materials up to **1500 mm**.

A cutting aid such as iron powder may be required for cold or hot material depending on the material composition, thickness and cross-section (e.g. round).

- Cutting material thickness up to 1500mm
- Connections according to DIN EN 560
- Heating gases: natural gas, propane, acetylene
- Water cooling



Cutting torch series GIGANT



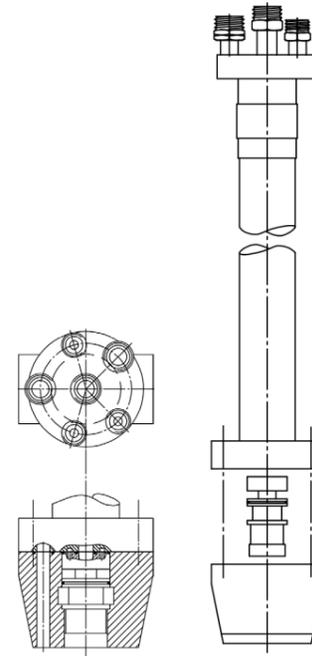
The **GIGANT** series is a high-performance torch for cutting cold and hot, non-alloyed and alloyed materials with a thickness of up to **2000 mm**. The GIGANT is specifically designed for demanding industrial applications.

DESIGN FEATURES

- **Robust, mill-compatible design:** Developed to withstand the harsh conditions in steel mills.
- **Easy maintenance and repair:** The separation of the cutting nozzle and pressure screw prevents twisting and wear on the sealing surface.
- **High-quality materials:** Stainless steel shaft tube with a diameter of 70 mm and brazed joints for increased durability and stability.
- **Optimized water cooling:** Ensures effective cooling right up to the nozzle seat.
- **Standard length:** 1,000 mm (Customised lengths on request).
- **Large-dimensioned connections according to DIN EN 560:** Minimize pressure losses.
- **Precisely manufactured cone design:** Large sealing surfaces guarantee optimal tightness and excellent heat dissipation.
- **Integrated pilot flame.**

These features make the **GIGANT** a reliable and efficient option for complex cutting tasks that require precision and robustness.

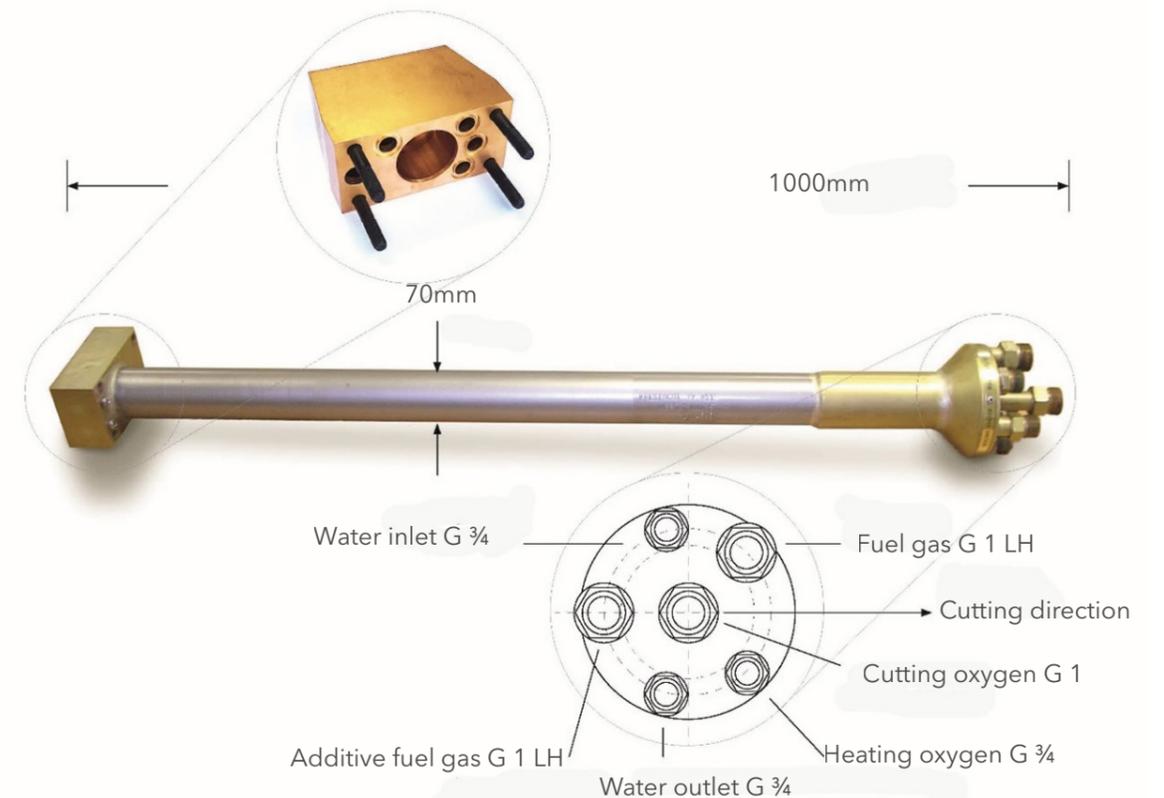
Cutting torch series GIGANT Gigant 2000



The GIGANT 2000 torch is suitable for cutting cold or hot, non-alloyed and alloyed materials up to 2000 mm in thickness.

A cutting aid such as iron powder may be necessary for cold or hot material, depending on the material composition, thickness, and cross-section (e.g., round).

- Cutting thickness up to 2500 mm
- Connections according to DIN EN 560
- Heating gases: natural gas, propane, acetylene
- Water cooling





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