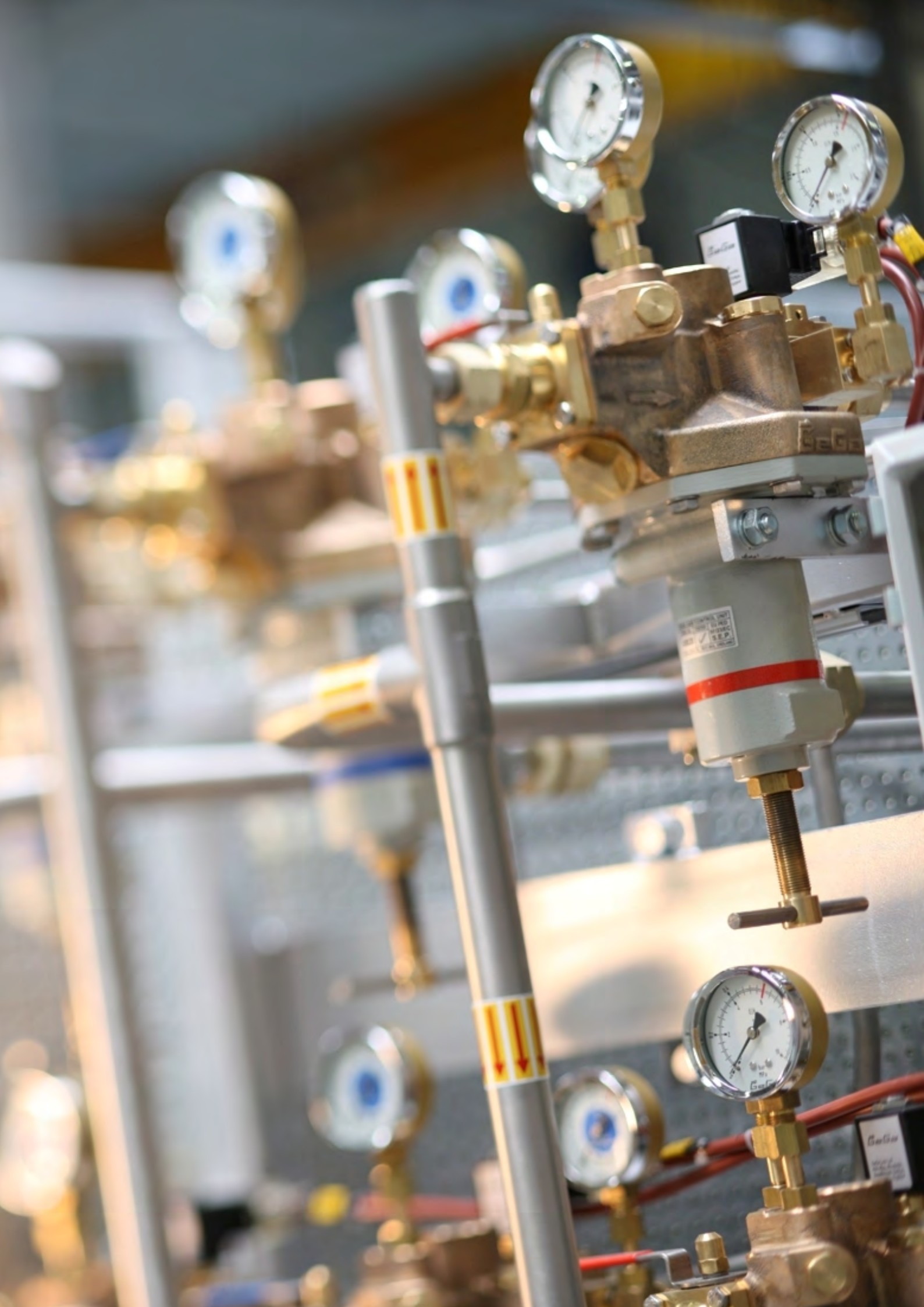
GEGA
ALPINE METAL TECH

PRODUCT CATALOGUE

Autogenous Technology for Steel

en



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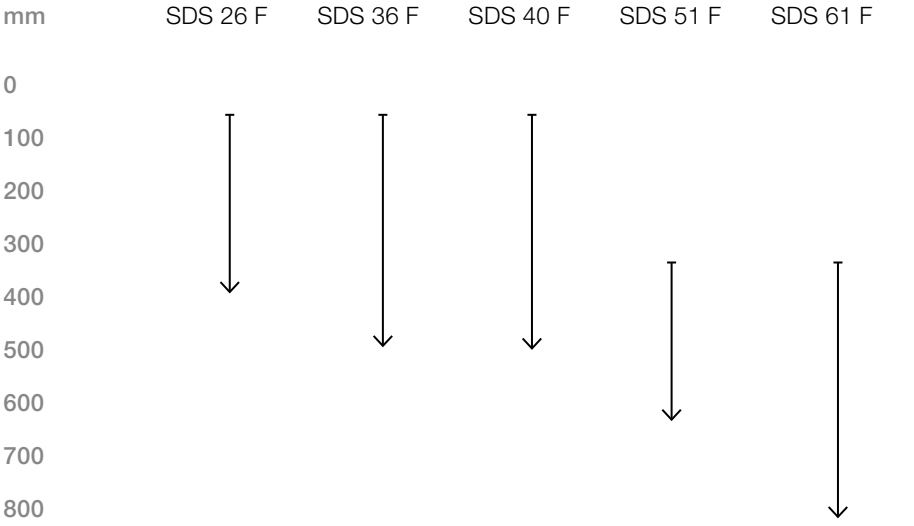
SDS F

Nozzles

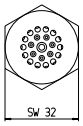
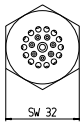
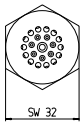
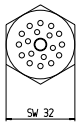
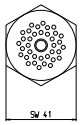
The SDS F series includes the most successful cutting nozzles of the AMT group. They impress with their high reliability and low media consumption in daily use in steel works. The high nozzle distance above the slab guarantees low wear and subsequently longer life span.

CUTTING THICKNESS RANGE



MAIN CHARACTERISTICS

Nozzle distance range	120 mm - 165 mm
Oxygen pressure range	8-15 bar
Gas pressure range	0.6-2 bar

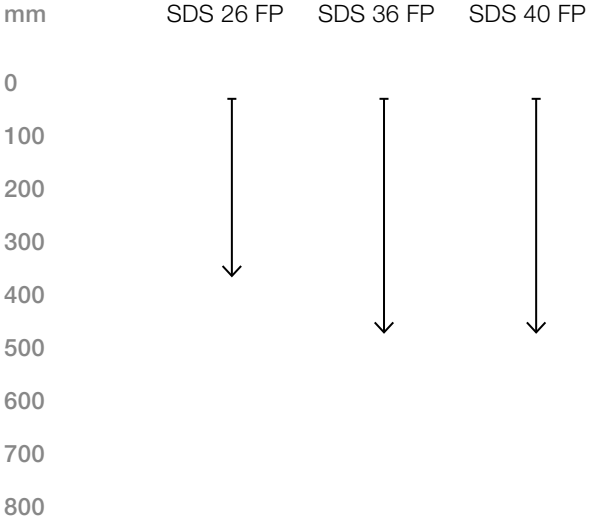
	SDS 26 F	SDS 36 F	SDS 40 F	SDS 51 F	SDS 61 F
					
ITEM NO.	**108183**	**106567**	**108187**	**108188**	**111951**
CUTTING THICKNESS RANGE (mm)	50 - 400	50 - 500	50 - 500	350 - 650	350 - 800
NOZZLE DISTANCE (mm)	120 - 165	120 - 165	120 - 165	120 - 165	120 - 165
CONSUMPTION (Nm^3/h)					
Heating oxygen flow by natural gas	19	19	19	12	24
Gas flow by natural gas	21	21	21	25	36
Heating oxygen flow by propan gas	19	19	19	12	24
Gas flow by propan gas	9	9	9	10	14
Heating oxygen flow by coke oven gas	22	22	22	17	31
Gas flow by coke oven gas	31	31	31	30	42
Cutting oxygen flow	52	58	64	84	124
PRESSURE CUTTING (bar)					
Heating oxygen pressure by natural gas	2.5	2.5	2.5	1.7	2.2
Gas pressure by natural gas	1.5	1.5	1.5	1.4	1.3
Heating oxygen pressure by propan gas	2.5	2.5	2.5	1.7	2.2
Gas pressure by propan gas	0.8	0.8	0.8	0.7	0.6
Heating oxygen pressure by coke oven gas	3	3	3	1.9	2.8
Gas pressure by coke oven gas	2	2	2	1.5	1.8
Cutting oxygen pressure	15	10	9	8	9
APPLICABLE CUTTING TORCHES					
SBK 500 F	+	+	+	+	
SB 500 F	+	+	+	+	
SB 800 F					+
SHBA - M F	+	+	+	+	
SHBS - M F	+	+	+	+	
SHBS - MS F	+	+	+	+	
SHBA - MS F	+	+	+	+	
SPANNER WIDTH	SW 32	SW 32	SW 32	SW 32	SW 41

SDS FP

Nozzles

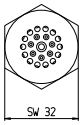
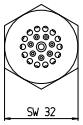
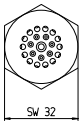
In the autogenous cutting process, conventional cutting technology reaches its limit with certain alloy compositions. This is where the AMT Gega SDS FP nozzle series comes into play. Combined with an AMT Gega powder system, this generation of nozzles succeeds in significantly expanding the limits of what is possible in alloy cutting. By adjusting the heating performance, an optimum powder flow is achieved.

CUTTING THICKNESS RANGE



MAIN CHARACTERISTICS

Nozzle distance range	80 mm - 120 mm
Oxygen pressure range	9 - 15 bar
Gas pressure range	0.5 - 1.4 bar

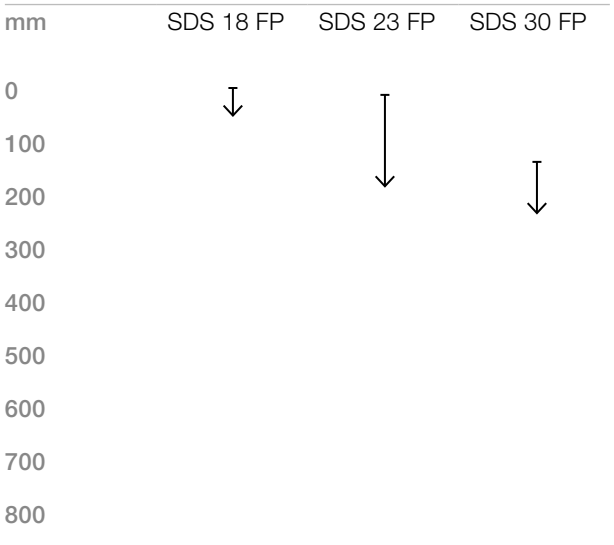
	SDS 26 F	SDS 36 F	SDS 40 F
			
ITEM NO.	**108189**	**108191**	**106556**
CUTTING THICKNESS RANGE (mm)	50 - 400	50 - 500	50 - 500
NOZZLE DISTANCE (mm)	80 – 120	80 – 120	80 – 120
CONSUMPTION (Nm^3/h)			
Heating oxygen flow by natural gas	14	14	14
Gas flow by natural gas	20	20	20
Heating oxygen flow by propan gas	14	14	14
Gas flow by propan gas	8	8	8
Heating oxygen flow by coke oven gas	17	17	17
Gas flow by coke oven gas	25	25	25
Cutting oxygen flow	52	58	64
PRESSURE CUTTING (bar)			
Heating oxygen pressure by natural gas	1.8	1.8	1.8
Gas pressure by natural gas	1.1	1.1	1.1
Heating oxygen pressure by propan gas	1.8	1.8	1.8
Gas pressure by propan gas	0.5	0.5	0.5
Heating oxygen pressure by coke oven gas	2.3	2.3	2.3
Gas pressure by coke oven gas	1.4	1.4	1.4
Cutting oxygen pressure	15	10	9
APPLICABLE CUTTING TORCHES			
SBK 500 F	+	+	+
SB 500 F	+	+	+
SHBA - M F	+	+	+
SHBS - M F	+	+	+
SHBS - MS F	+	+	+
SHBA - MS F	+	+	+
SPANNER WIDTH	SW 32	SW 32	SW 32

SDS FB

Nozzles

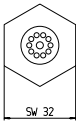
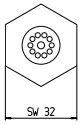
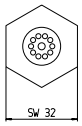
The SDS FB series is a special application for plate cutting within the SDS family. Cut material thicknesses of 10 to 220 millimetres optimally with this distinct cutting nozzle. By adjusting the pre-heating, edge melting on the cutting surface is reduced.

CUTTING THICKNESS RANGE



MAIN CHARACTERISTICS

Nozzle distance range	10 mm - 15 mm
Oxygen pressure range	4 - 11 bar
Gas pressure range	0.1 - 0.6 bar

	SDS 18 FB	SDS 23 FB	SDS 30 FB
			
ITEM NO.	**110476**	**109421**	**110477**
CUTTING THICKNESS RANGE (mm)	10 – 40	40 – 150	140 – 220
NOZZLE DISTANCE (mm)	10 – 15	10 – 15	10 – 15
CONSUMPTION (Nm^3/h)			
Heating oxygen flow by natural gas	3.9	3.9 – 7	3.4 – 5.1
Gas flow by natural gas	3.4	3.4 – 10	4.1 – 9.3
Cutting oxygen flow	6.8 – 8	14.6 – 25	24.4 – 39.1
PRESSURE CUTTING (bar)			
Heating oxygen pressure by natural gas	0.3	0.3 – 0.8	0.3 – 0.7
Gas pressure by natural gas	0.1	0.1 – 0.6	0.1 – 0.5
Cutting oxygen pressure	4 – 7	6 – 11	6 – 10
APPLICABLE CUTTING TORCHES			
SBK 500 F	+	+	+
SB 500 F	+	+	+
SPANNER WIDTH	SW 32	SW 32	SW 32

SHEL F

Nozzles

The latest evolutionary stage in the AMT Gega nozzle series. Patented with quick cutting processes in the concast section in mind, for when the material is still hot. Significantly increased cutting speeds allow shorter cut zones with reduced fuel gas consumption and narrower cutting kerfs.

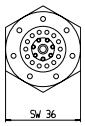
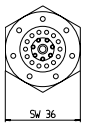
Engineered to meet increasingly stringent safety regulations in steel works, this nozzle series guarantees a high model-related safety standard due to its application of post mix technology. The shrouded design offers the additional the advantage of lower noise emissions and an extended lifespan.

CUTTING THICKNESS RANGE

mm	SHEL 32F	SHEL 35F
0		
100		
200		
300		
400		
500		
600		
700		
800		

MAIN CHARACTERISTICS

Nozzle distance range	120 mm - 165 mm
Oxygen pressure range	10 - 12 bar
Gas pressure range	0.8 - 2 bar

	SHEL 32 F	SHEL 35 F
		
ITEM NO.	**111893**	**111892**
CUTTING THICKNESS RANGE (mm)	50 – 250	50 – 350
NOZZLE DISTANCE (mm)	120 – 165	120 – 165
CONSUMPTION (Nm^3/h)		
Heating oxygen flow by natural gas	22	22
Gas flow by natural gas	17	17
Heating oxygen flow by propan gas	22	22
Gas flow by propan gas	7.5	7.5
Heating oxygen flow by coke oven gas	25	25
Gas flow by coke oven gas	23	23
Cutting oxygen flow	53	53
PRESSURE CUTTING (bar)		
Heating oxygen pressure by natural gas	2.5	2.5
Gas pressure by natural gas	1.5	1.5
Heating oxygen pressure by propan gas	2.5	2.5
Gas pressure by propan gas	0.8	0.8
Heating oxygen pressure by coke oven gas	3	3
Gas pressure by coke oven gas	2	2
Cutting oxygen pressure	12	10
APPLICABLE CUTTING TORCHES		
SBK 500 F	+	+
SB 500 F	+	+
SHBA - M F	+	+
SHBS - M F	+	+
SHBS - MS F	+	+
SHBA - MS F	+	+
SPANNER WIDTH	SW 36	SW 36

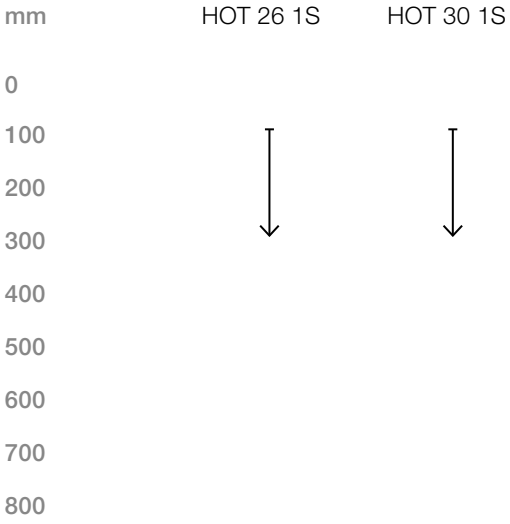
HOT

Nozzles

This unique high-pressure oxygen series was specially developed for quick separation of the steel products from the strand and for high productivity during secondary slitting and sub-dividing operations.

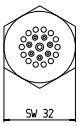
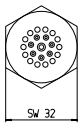
With regards to the crucial factor of cutting speed, the patented AMT Gega HOT nozzle assumes a leading role in global comparison, enabling significantly shortened work cycles.

CUTTING THICKNESS RANGE



MAIN CHARACTERISTICS

Nozzle distance range	120 mm - 165 mm
Oxygen pressure range	27 - 30,5 bar
Gas pressure range	0.8 - 2 bar

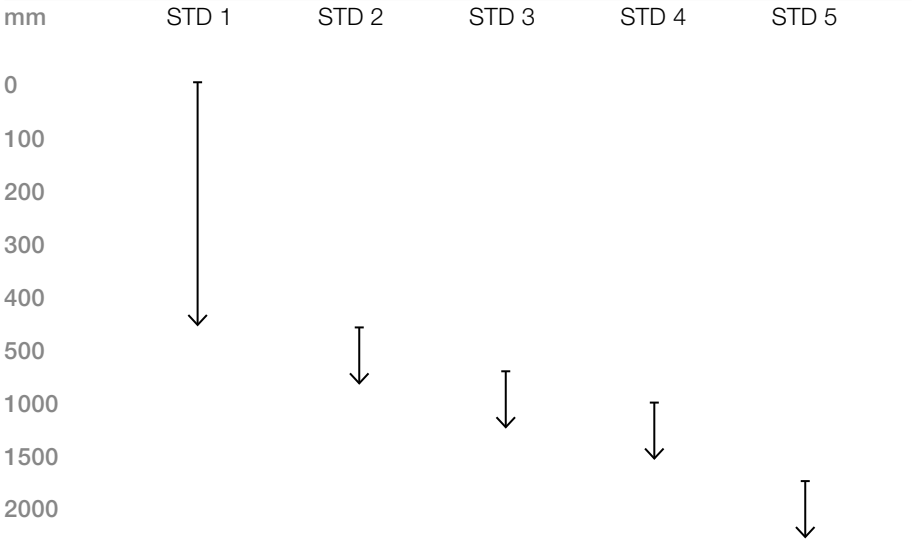
	HOT 26 1S	HOT 30 1 S
		
ITEM NO.	**108172**	**108173**
CUTTING THICKNESS RANGE (mm)	100 – 300	100 – 300
NOZZLE DISTANCE (mm)	120 – 165	120 – 165
CONSUMPTION (Nm^3/h)		
Heating oxygen flow by natural gas	19	19
Gas flow by natural gas	21	21
Heating oxygen flow by propan gas	19	19
Gas flow by propan gas	9	9
Heating oxygen flow by coke oven gas	22	22
Gas flow by coke oven gas	31	31
Cutting oxygen flow	58	74
PRESSURE CUTTING (bar)		
Heating oxygen pressure by natural gas	2.5	2.5
Gas pressure by natural gas	1.5	1.5
Heating oxygen pressure by propan gas	2.5	2.5
Gas pressure by propan gas	0.8	0.8
Heating oxygen pressure by coke oven gas	3	3
Gas pressure by coke oven gas	2	2
Cutting oxygen pressure	27	30.5
APPLICABLE CUTTING TORCHES		
HOBS 1S	+	+
SPANNER WIDTH	SW 32	SW 32

STD

Nozzles

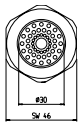
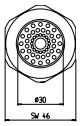
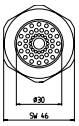
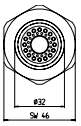
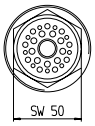
This conically sealing thick cutting nozzle is constructed for cutting thicknesses up to two meters. Due to its long, slim geometry, media turbulence is reduced, enabling precise cutting of high strength material.

CUTTING THICKNESS RANGE



MAIN CHARACTERISTICS

Nozzle distance range	50 mm - 180 mm
Oxygen pressure range	5-10 bar
Gas pressure range	0.1-2 bar

	STD 1	STD 2	STD 3	STD 4	STD 5
					
ITEM NO.	**108284**	**108285**	**108286**	**108287**	**114181**
CUTTING THICKNESS RANGE (mm)	50 – 450	450 – 750	750 – 1200	1000 – 1200	1500 – 2000
NOZZLE DISTANCE (mm)	50 – 125	50 – 125	50 – 125	50 – 125	120 – 180
CONSUMPTION (Nm^3/h)					
Heating oxygen flow by natural gas	27 – 33	27 – 33	27 – 33	36 – 52	84
Gas flow by natural gas	21 – 26	21 – 26	21 – 26	32 – 48	180 – 220
Heating oxygen flow by propan gas	27 – 33	27 – 33	27 – 33	36 – 52	84
Gas flow by propan gas	11	15	15	15	90 – 110
Cutting oxygen flow	58 – 93	71 – 114	86 – 135	211 – 378	280 – 400
PRESSURE CUTTING (bar)					
Heating oxygen pressure by natural gas	2 – 2.5	2 – 2.5	2 – 2.5	1.5 – 2.5	0.05
Gas pressure by natural gas	0.2 – 0.3	0.2 – 0.3	0.2 – 0.3	1 – 2	0.15 – 0.2
Heating oxygen pressure by propan gas	2 – 2.5	2 – 2.5	2 – 2.5	1.5 – 2.5	0.05
Gas pressure by propan gas	0.1	0.2	0.2	0.6	0.1 – 0.15
Cutting oxygen pressure	6 – 10	6 – 10	6 – 10	5 – 9	5 – 7
APPLICABLE CUTTING TORCHES					
SB 1200	+	+	+	+	
SB 2000					+
SPANNER WIDTH	SW 46	SW 46	SW 46	SW 46	SW 50

SD 3 HSO

Nozzles

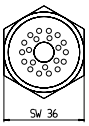
Optimized for manual operation. Allows for uneven movements or changes to the nozzle distance during the cutting process. The rugged construction also makes this nozzle ideal for scrap cutting applications.

CUTTING THICKNESS RANGE

mm	SD3 HSO
0	
100	
200	
300	
400	
500	
600	
700	
800	

MAIN CHARACTERISTICS

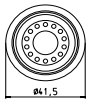
Spanner width range	SW 36
Gas pressure range	0.5 - 1.2 bar

	SD3 HSO
	
ITEM NO.	**107884**
CUTTING THICKNESS RANGE (mm)	50 – 500
CONSUMPTION (Nm^3/h)	
Heating oxygen flow by natural gas	17 – 20
Gas flow by natural gas	15 – 18
Heating oxygen flow by propan gas	20 – 24
Gas flow by propan gas	10 – 14
Cutting oxygen flow	95
PRESSURE CUTTING (bar)	
Heating oxygen pressure by natural gas	1.8 – 2.2
Gas pressure by natural gas	0.8 – 1.2
Heating oxygen pressure by propan gas	2.0 – 2.5
Gas pressure by propan gas	0.5 – 0.8
Cutting oxygen pressure	8
APPLICABLE CUTTING TORCHES	
SHBA	+
SHBS	+
SPANNER WIDTH	SW 36

HFD 1F

Nozzles

Especially designed for the hand scarfing process. Well protected against abrasive movements with reinforced wearing ring, allowing for a long lifespan. With its nozzle seat well anchored in the nozzle holder, the HFD 1F introduces an improved safety standard in the hand scarfing process.

	HFD 1F
	
ITEM NO.	**107648**
CONSUMPTION (Nm³/h)	
Heating oxygen flow by natural gas	19
Gas flow by natural gas	24
Scarfing oxygen flow	147
PRESSURE CUTTING (bar)	
Heating oxygen pressure by natural gas	1.4 – 1.7
Gas pressure by natural gas	0.3 – 0.5
Scarfing oxygen pressure	10
APPLICABLE SCARFING TORCHES	
MST 1500	+
MST 1200 CGA	+
SPANNER WIDTH	SW 36

MAIN CHARACTERISTICS

Spanner width	SW 36
Scarfing oxygen pressure	10 bar
Gas pressure range	0.3 - 0.5 bar

MBR

Nozzles

Designed for the AMT Gega Scarfing Manipulator.
The MBR 36 allows for a very fractional application, offering unrivaled operational efficiency. It was being specifically designed for very low gas consumption in scarfing processes. Within its duty cycle, three separate assembly levels for scarfing are available. Switching between scarfing levels controls the scarfing range on the slab.

	MBR 36
	
ITEM NO.	**109912**
CONSUMPTION (Nm^3/h)	
Heating oxygen flow by natural gas	190
Gas flow by natural gas	148
Scarfing oxygen flow step I	587
Scarfing oxygen flow step II	326
Scarfing oxygen flow step III	1235
PRESSURE SCARFING (bar)	
Scarfing oxygen flow step I	4.5
Scarfing oxygen flow step II	0.4
Scarfing oxygen flow step III	1.1
APPLICABLE ITEMS	Manipulator

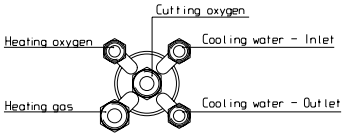
MAIN CHARACTERISTICS

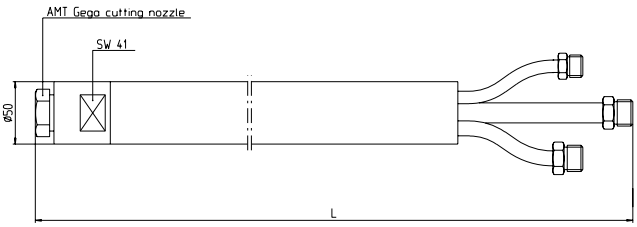
Fractional scarfing possible
Very low gas consumption

SB 500 F

Torches

The AMT Gega SB 500 F torch is the proven standard cutting torch. It is water-cooled, and by standardized design, a wide range of different cutting nozzles series can be connected. The availability of individual torch length from 400 to 1,900 mm makes this torch usable for any kind of cutting applications, from slab and billet machines up to secondary or sample torch cutting requirements.





MAIN CHARACTERISTICS

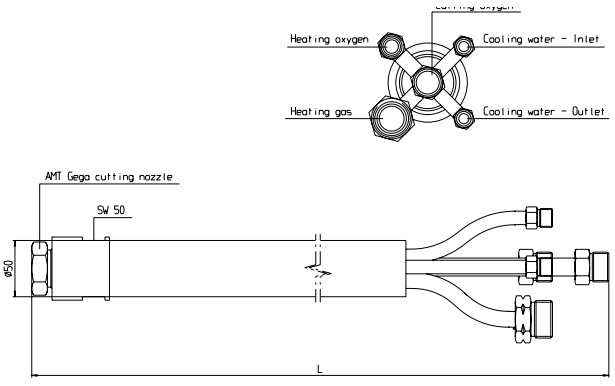
Length range	500 mm - 1900mm
Shaft pipe diameter	50 mm

	SB 500 F	SB 500 F UNF / JIC
LENGTH (mm)	**ITEM NO.**	**ITEM NO.**
400	101512	
500	101513	
600	101514	
700	101515	
800	101516	
900	101517	
1000	101518	
1100	101519	
1200	101521	
1300	101523	111911
1400	101524	112072
1500	101525	112073
1600	109288	
1700	109337	
1800	101526	
1900	101527	
CONNECTIONS		
Heating oxygen	G 3/8″	UNF 1 1/16 JIC
Cutting oxygen	G 1/2″	UNF 1 1/16 JIC
Heating gas	G 1/2″LH	UNF 7/8 JIC
Water inlet	G 3/8″	UNF 3/4 JIC
Water outlet	G 3/8″	UNF 3/4 JIC
APPLICABLE NOZZLES		
SHEL F	+	+
SDS F	+ (except 61 F)	+ (except 61 F)
SDS FP	+	+
SDS FB	+	+
APPLICABLE GAUGE NOZZLES	**ITEM NO.**	**ITEM NO.**
Heating gas	103507	112701
Cutting oxygen	103508	112831
Heating oxygen	103509	112702
SERVICE TOOLS (ITEM NO.)		
Nozzle seat reamer	110411	110411

SB 800 F

Torches

The AMT Gega SB 800 F torch is the bigger execution of our proven standard cutting torch SB 500F, and is also available in different length from 1,200 to 1,700mm. It is designed for higher media throughflows to cut bigger formats. This torch is usually combined with the SDS 61 F-nozzle, nevertheless by using an adaptor piece, different nozzles can also be used.



MAIN CHARACTERISTICS

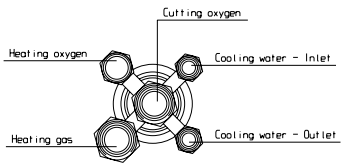
Length range	1200 mm - 1700 mm
Shaft pipe diameter	50 mm

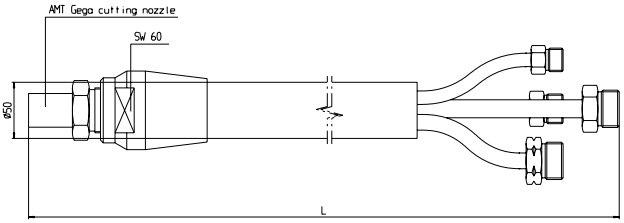
	SB 800 F
LENGTH (mm)	**ITEM NO.**
1200	112145
1700	113009
DIMENSIONS (mm)	
Shaft pipe diameter	50
Spanner width	SW 50
CONNECTIONS	
Heating oxygen	G 1/2″
Cutting oxygen	G 3/4″
Heating gas	G 1″ LH
Water inlet	G 3/8″
Water outlet	G 3/8″
APPLICABLE NOZZLES	**ITEM NO.**
SDS 61 F	111951
SERVICE TOOLS	**ITEM NO.**
Nozzle seat reamer	112267

SB 1200

Torches

The AMT Gega SB 1200 torch is special designed for cutting thicker formats up to 1,500 mm. Also available in different length, the design is suitable for higher media throughflows. This torch is used in connection with a nozzle of our STD-series.





MAIN CHARACTERISTICS

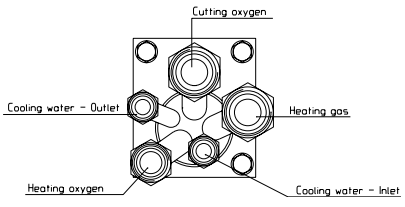
Length range	500 mm - 1800mm
Shaft pipe diameter	50 mm

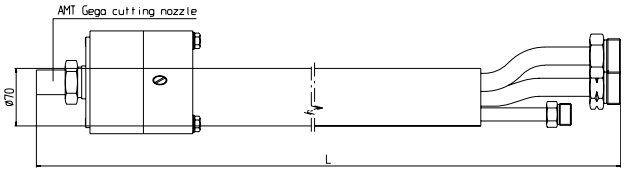
	SB 1200
LENGTH (mm)	**ITEM NO.**
500	112614
600	108903
700	101529
800	108904
900	108905
1000	108906
1100	101530
1200	108908
1300	108909
1400	108910
1500	108912
1600	108913
1700	108914
1800	108915
DIMENSIONS (mm)	
Shaft pipe diameter	50
Spanner width	SW 60
CONNECTIONS	
Heating oxygen	G 3/4″
Cutting oxygen	G 1″
Heating gas	G 1″ LH
Water inlet	G 1/2″
Water outlet	G 1/2″
APPLICABLE NOZZLES	
STD 1 – 4	+
APPLICABLE GAUGE NOZZLES	**ITEM NO.**
Heating gas	103509
Cutting oxygen	112479
Heating oxygen	103507
SERVICE TOOLS	**ITEM NO.**
Nozzle seat reamer	111379

SB 2000

Torches

The AMT Gega SB 2000 torch is the bigger execution of our SB 1200 torch, and is special designed for cutting thickest formats up to 2,000 mm. This torch is used in unique connection with the biggest nozzle of our STD-series, STD-5.





MAIN CHARACTERISTICS

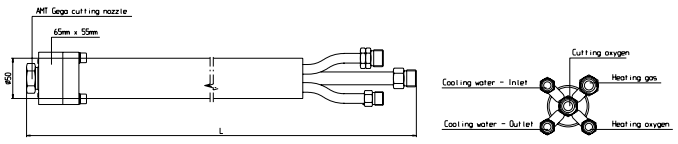
Length	1200 mm

	SB 2000
LENGTH (mm)	**ITEM NO.**
1200	114180
DIMENSIONS (mm)	
Shaft pipe diameter	70
CONNECTIONS	
Heating oxygen	G 1″
Cutting oxygen	G 1 1/4″
Heating gas	G 1 1/4″ LH
Water inlet	G 3/4″
Water outlet	G 3/4″
APPLICABLE NOZZLES	**ITEM NO.**
STD 5	114181

HOBS 1S

Torches

The AMT Gega HOBS 1S torch is the technological counterpart to the AMT Gega HOT nozzle range. The fastest separation system in autogenous technology, this sophisticated cutting system is based on a high pressure procedure. The HOBS 1S unit is designed for operation in the area of smelting works and impresses with a high level of robustness in daily steel works operation.



MAIN CHARACTERISTICS

Length range	500 mm - 1500mm
Shaft pipe diameter	50 mm

LENGTH (mm)	ITEM NO.
500	106892
600	106893
700	106894
800	106895
900	106896
1000	106897
1100	106898
1200	106899
1300	106900
1400	106902
1500	106903

DIMENSIONS (mm)	
Shaft pipe diameter	50

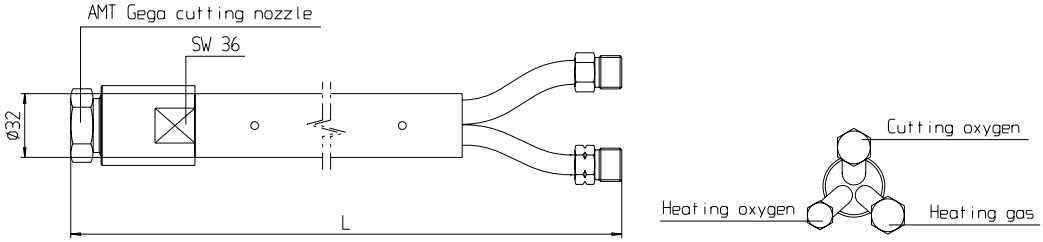
CONNECTIONS	
Heating oxygen	G 3/8″
Cutting oxygen	G 1/2″
Heating gas	G 1/2″LH
Water inlet	G 3/8″
Water outlet	G 3/8″

APPLICABLE NOZZLES	ITEM NO.
HOT 1 S	+

SBK

Torches

SBK type torches are specifically designed for the mobile cutting system Corti. It shares its origin with the SB 500 F, however lacking the cooling jacket. The advantage of the SBK compared to the SB 500 F is a lighter design due to the missing parts of the cooling items and the cooling water itself. The same nozzles as in the SB 500 F can be used.



MAIN CHARACTERISTICS

Length range	400 mm - 1000mm
Shaft pipe diameter	32 mm

SBK 500 F

LENGTH (mm)	ITEM NO.
400	101528
500	112008
600	112010
700	109869
900	109871
1000	113273

DIMENSIONS (mm)	
Shaft pipe diameter	32
Spanner width	SW 36

CONNECTIONS	
Heating oxygen	G 1/4″
Cutting oxygen	G 3/8″
Heating gas	G 3/8″LH

APPLICABLE NOZZLES	
SHEL F	+
SDS F	+ (except 61 F)
SDS FP	+
SDS FB	+

SERVICE TOOLS	ITEM NO.
Nozzle seat reamer	110411

SHBS / SHBA

Torches

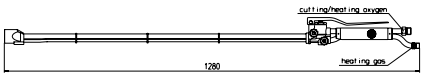
The manual cutting torches by AMT Gega are called SHBS or SHBA and differ in the angle of the nozzle holder. With the model S, the nozzle seat is straight on the torch axis, whereas the A variant shows a 90° cranking at the head. The area of use of this product is the emergency separation of slabs - strand situations and in manual cutting processes, and also heavy scrap cutting. A powder machine can be provided on request.

SHBS

SHBA

MAIN CHARACTERISTICS

Spanner width	SW 27

	SHBS	SHBA
		
ITEM NO.	108983	108972
DIMENSIONS (mm)		
Length	1280	1280
Spanner width	SW 27	SW 27
CONNECTIONS		
Cutting oxygen	G 1/2″	G 1/2″
APPLICABLE NOZZLES	**ITEM NO.**	**ITEM NO.**
SD 3 HSO	107884	107884
SERVICE TOOLS	**ITEM NO.**	**ITEM NO.**
Nozzle seat reamer	103304	103304

SHBS-M(S) F/SHBA-M(S) F

Torches

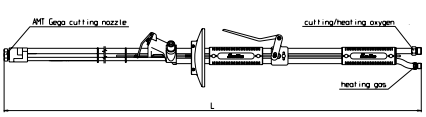
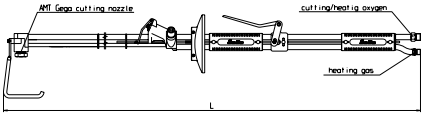
For your personal safety in the smelting works process, AMT Gega provides emergency cutting torches. This development impresses with a high level of robustness and reliability in emergency situations. As with many AMT Gega products, a large amount of additional equipment is available. This type of torch can be manufactured from 1200 to 5000 mm.

SHBS-M(S) F

SHBA-M(S) F

MAIN CHARACTERISTICS

Length range	1200 mm - 5000 mm
Spanner width	SW 27

	SHBS-M F	SHBS-MS F	SHBA-M F	SHBA-MS F
				
LENGTH (mm)	**ITEM NO.**	**ITEM NO.**	**ITEM NO.**	**ITEM NO.**
1200	107413		107393	
1500	107414		107394	
1800	107415		107395	
2000	112022			
2100	107416		107396	
2400	107417		107397	
2700	107418		107404	
3000	107419		107405	
3500		107420		109354
4000		109418		107407
5000		113142		
DIMENSIONS				
Spanner width	SW 27	SW 27	SW 27	SW 27
CONNECTIONS				
Cutting oxygen	G 1/2″	G 1/2″	G 1/2″	G 1/2″
Heating gas	G 3/8″LH	G 3/8″LH	G 3/8″LH	G 3/8″LH
APPLICABLE NOZZLES				
SHEL F	+	+	+	+
SDS F (excludes SDS 61 F)	+	+	+	+
SDS FP	+	+	+	+
SDS FB	+	+	+	+
SERVICE TOOLS	**ITEM NO.**	**ITEM NO.**	**ITEM NO.**	**ITEM NO.**
Nozzle seat reamer	110411	110411	110411	110411

IGNITION BURNERS

Torches

This new design of the ignition burner is directly installed on the burner and enables exceptionally safe operation.
This type of ignition burner can be ignited in any position. The fix position delivers significantly improved ignition reliability.

LENGTH (mm)	ITEM NO.
300	109873
400	109874
500	108929
600	108928
700	108927
800	108926
900	108925
1000	108924
1100	108923
1200	108922
1300	108921
1400	107666

DIMENSIONS (mm)	
Shaft pipe diameter	21.3

CONNECTIONS	
Inlet gas	G 1/2″ LH M

PRESSURE (mbar)	
Propan gas	60 – 80
Natural gas	80 – 120

MAIN CHARACTERISTICS

Length range	300 mm - 1400 mm
Shaft pipe diameter	21.3 mm

IGNITION STICK

Torches

The manual ignition system has been especially made for ignition from safe distances (up to 2m). The Ignition Stick is in addition designed to combine easy and operator-friendly handling with a robust design. The manual ignition stick is highly recommended if the torch cutting machine is not equipped with an integrated ignition system.

LENGTH (mm)	ITEM NO.
400	120751
400	120751
1400	120752
2600	120753
3000	122341

FINE ADJUSTMENT VALVE

Valves - Type 920

The AMT Gega fine adjustment valve is responsible for the exact media dosage of the heating system. The process path provides short routes from the valve to the consumer. For this reason, this component is positioned as close as possible to the torch, without being exposed to heat radiation. Due to uneven lengths of supply pipelines and hoses, the introduction of a fine adjustment valve is required. This is compensated by using an AMT Gega fine adjustment valve.

Type	920/400	920/413	920/431	920/433
MEDIUM	**Oxygen, CPM**	**Oxygen, CPM**	**Oxygen, CPM**	**Oxygen, CPM**
ITEM NO.	**106785**	**102757**	**106717**	**106718**
DIMENSIONS (mm)				
Height	60	60	60	60
Width	25	25	25	25
Length	48	92.5	92.5	98
CONNECTION				
Inlet 1	G 1/4″ F	G 1/4″ M	G 1/4″ F	G 1/4″ F
Outlet 1	G 1/4″ F	G 1/4″ F	G 1/4″ M	G 1/4″ F
MATERIAL	Brass	Brass	Brass	Brass

MAIN CHARACTERISTICS

Adjustable	yes
Regulation	manual
Max. pressure	50 bar

GAS FLOW CONTROLLER

Valves - Type 880

The AMT Gega fine adjustment valve is responsible for the exact media dosage of the heating system. The process path provides short routes from the valve to the consumer. For this reason, this component is positioned as close as possible to the torch, without being exposed to heat radiation.

Due to uneven lengths of supply pipelines and hoses, the introduction of a fine adjustment valve is required. This is compensated by using an AMT Gega fine adjustment valve.

MAIN CHARACTERISTICS

Adjustable	yes
Electrical detachable	yes
Max. pressure	25 bar

Gas flow controller	880 / A	880 / B	880 / C	880 / D	880 / E
MEDIUM	**Oxygen**	**Oxygen**	**Oxygen**	**Oxygen**	**Oxygen**
ITEM NO.	**112740**	**112741**	**112742**	**114189**	**112854**
DIMENSIONS (mm)					
Height	173.5	173.5	173.5	173.5	173.5
Width	114	130	130	196	196
Length	143	143	143	143	147
CONNECTION					
Inlet 1	G 3/8″ M	G 3/8″ M	G 3/8″ M	G 3/8″ M	G 1/2″ M
Outlet 1	G 3/8″ M	G 3/8″ M	G 3/8″ M	G 3/8″ M	G 1/2″ M
COIL VOLTAGE					
AC	24 V / 50 Hz – 240 V / 50 Hz	24 V / 50 Hz – 240 V / 50 Hz	24 V / 50 Hz – 240 V / 50 Hz	24 V / 50 Hz – 240 V / 50 Hz	24 V / 50 Hz – 240 V / 50 Hz
DC	12 V – 220 V	12 V – 220 V	12 V – 220 V	12 V – 220 V	12 V – 220 V
BYPASS	No	Yes	Yes	Yes	Yes
BYPASS ELECTRICAL DETACHABLE	No	No	Yes	No	Yes
MATERIAL	Brass	Brass	Brass	Brass	Brass
SERVICE KIT (ITEM NO.)	102534	102534	102534	102534	102534
CONNECTION TO IGNITION TORCH	No	No	No	Yes	Yes

Gas flow controller	880 / A	880 / B	880 / C	880 / D	880 / E
MEDIUM	**CPM**	**CPM**	**CPM**	**CPM**	**CPM**
ITEM NO.	**112743**	**112744**	**112745**	**112746**	**112853**
DIMENSIONS (mm)					
Height	173.5	173.5	173.5	173.5	173.5
Width	114	130	130	196	196
Length	143	143	143	143	147
CONNECTION					
Inlet 1	G 1/2″ LH M	G 1/2″ LH M	G 1/2″ LH M	G 1/2″ LH M	G 1/2″ LH M
Outlet 1	G 1/2″ LH M	G 1/2″ LH M	G 1/2″ LH M	G 1/2″ LH M	G 1/2″ LH M
COIL VOLTAGE					
AC	24 V / 50 Hz – 240 V / 50 Hz	24 V / 50 Hz – 240 V / 50 Hz	24 V / 50 Hz – 240 V / 50 Hz	24 V / 50 Hz – 240 V / 50 Hz	24 V / 50 Hz – 240 V / 50 Hz
DC	12 V – 220 V	12 V – 220 V	12 V – 220 V	12 V – 220 V	12 V – 220 V
BYPASS	No	Yes	Yes	Yes	Yes
BYPASS ELECTRICAL DETACHABLE	No	No	Yes	No	Yes
MATERIAL	Brass	Brass	Brass	Brass	Brass
SERVICE KIT (ITEM NO.)	102534	102534	102534	102534	102534
CONNECTION TO IGNITION TORCH	No	No	No	Yes	Yes

Gas flow controller	880 / A	880 / B	880 / C	880 / D	880 / E
MEDIUM	**Oxygen, CPM**	**Oxygen, CPM**	**Oxygen, CPM**	**Oxygen, CPM**	**Oxygen, CPM**
ITEM NO.	**102531**	**102529**	**112600**	**110769**	**110770**
DIMENSIONS (mm)					
Height	173.5	173.5	173.5	173.5	173.5
Width	114	130	130	196	196
Length	143	143	143	143	147
CONNECTION					
Inlet 1	G 1/2″ F	G 1/2″ F	G 1/2″ F	G 1/2″ F	G 1/2″ F
Outlet 1	G 1/2″ F	G 1/2″ F	G 1/2″ F	G 1/2″ F	G 1/2″ F
COIL VOLTAGE					
AC	24 V / 50 Hz – 240 V / 50 Hz	24 V / 50 Hz – 240 V / 50 Hz	24 V / 50 Hz – 240 V / 50 Hz	24 V / 50 Hz – 240 V / 50 Hz	24 V / 50 Hz – 240 V / 50 Hz
DC	12 V – 220 V	12 V – 220 V	12 V – 220 V	12 V – 220 V	12 V – 220 V
BYPASS	No	Yes	Yes	Yes	Yes
BYPASS ELECTRICAL DETACHABLE	No	No	Yes	No	Yes
MATERIAL	Brass	Brass	Brass	Brass	Brass
SERVICE KIT (ITEM NO.)	102534	102534	102534	102534	102534
CONNECTION TO IGNITION TORCH	No	No	No	Yes	Yes

2/2 WAY VALVE

Valves - Type 955

The 2/2 way valve manufactured by AMT Gega closes and opens the cutting oxygen flow of the nozzle. The capacity of the closer is up to 40 bar. This component is designed to be very robust and long lasting, even a dusty environment does not impede the function of this 2/2 way valve in any way.

MAIN CHARACTERISTICS

Electrical detachable	yes
Max. pressure	40 bar

Type	955
MEDIUM	**Oxygen, CPM**
ITEM NO.	**112828**
DIMENSIONS (mm)	
Height	112
Width	60
Length	147
CONNECTION	
Inlet 1	G 1/2″ M
Outlet 1	G 1/2″ M
COIL VOLTAGE	
AC	24 V / 50 Hz – 240 V / 50 Hz
DC	12 V – 220 V
MATERIAL	Brass
SERVICE KIT (ITEM NO.)	112655

2/2 WAY VALVE

Valves - Type 966

The 2/2 way valve manufactured by AMT Gega closes and opens the cutting oxygen flow of the nozzle. The capacity of the closer is up to 25 bar. This component is designed to be very robust and long lasting, even a dusty environment does not impede the function of this 2/2 way valve in any way.

Type		966
MEDIUM		Oxygen, CPM
ITEM NO.		112827
DIMENSIONS (mm)		
	height	89
	width	38
	length	127
CONNECTION		
	Inlet 1	G 1/2” M
	Outlet 1	G 1/2” M
COIL VOLTAGE		
	AC	24V / 50 Hz - 240 V / 50 Hz
	DC	12V - 220V
MATERIAL		Brass

MAIN CHARACTERISTICS

Electrical detachable	yes
Max. pressure	25 bar

GS RANGE

Regulators

The GS range is the introductory model of the AMT Gega regulator range. Due to the simple construction of this range, AMT Gega has succeeded in offering very robust and user-friendly regulators. The spring loaded diaphragm regulators were specially conceived for manual and portable cutting applications, like every G regulator in the AMT family, and offer good visual control of the flow medium.

	GS1	GS2	GS3	GS10	GS20	GS30
CONNECTION	**Inline**	**Inline**	**Inline**	**Offset**	**Offset**	**Offset**
Inlet 1	G 3/4" LH M	G 3/4" M	G 3/4" M	G 3/4" LH M	G 3/4" F	G 3/4" M
Outlet 1	G 3/4" LH M	G 3/4" M	G 3/4" M	G 3/4" LH M	G 3/4" F	G 3/4" M
REGULATE	Manual	Manual	Manual	Manual	Manual	Manual
MEDIUM	CPM	Oxygen	Oxygen	CPM	Oxygen	Oxygen
MATERIAL	Main body: Brass / Wetted parts: Brass & stainless steel / Diaphragms / Seals: Nitrile					
SERVICE KIT (ITEM NO.)	102542	102542	102542	102542	102542	102542

MAIN CHARACTERISTICS

Regulate	manual
Max. pressure	40 bar
Pressure range	0.5 - 25 bar

GL RANGE

Regulators

The AMT Gega GL range is a high-end regulator range and offers many advantages, which no other product in the market place can provide. The unit combines a spring loaded pressure regulator with a manual shut off valve, filter, pilot needle valve, and solenoid control valve, all in one compact item. This makes connecting many separate with pipe fittings redundant, thus reducing the overall cost of the installation and removing the potential for hazardous leaks. Get in touch to explore many equipment variants or to discuss your individual needs for customization. Amongst other application, this diaphragm regulating unit is used in AMT Gega torch cutting machines, ensuring the torch pressure remains correct and stable.

MAIN CHARACTERISTICS

Regulate	manual
Max. pressure	40 bar
Pressure range	0.5 - 25 bar

GL Range	GL 1S					GL 2S					GL 3S		GL 4S				
CONNECTION	GL 1S	GL 1S / M	GL 1S / MS	GL 1S / MCG	GL 1S / MSG	GL 2S	GL 2S / M	GL 2S / MS	GL 2S / MCG	GL 2S / MSG	GL 3S	GL 3S / M	GL 4S	GL 4S / M	GL 4S / MS	GL 4S / MCG	GL 4S / MSG
Inlet 1	G 3/4″ LH M					G 3/4″ M					G 3/4″ M		G 3/4″ F				
Outlet 1	G 3/4″ LH M					G 3/4″ M					G 3/4″ M		G 3/4″ F				
Outlet 2	–					–					–		–				
BYPASS																	
Main-solenoid valve	–	1	1	1	1	–	1	1	1	1	–	1	–	1	1	1	1
Bypass-solenoid valve with manometer-connection	–	–	–	–	1	–	–	–	–	1	–	–	–	–	–	–	1
Bypass-solenoid valve without manometer-connection	–	–	1	–	–	–	–	1	–	–	–	–	–	–	1	–	–
Bypass-regulator valve with manometer-connection	–	–	–	1	–	–	–	–	1	–	–	–	–	–	–	1	–
REGULATE	Manual					Manual					Manual		Manual				
MEDIUM	CPM					Oxygen					Oxygen		Acetylene				
MATERIAL	Main body: Brass / Wetted parts: Brass & stainless steel / Diaphragms & seals: Nitrile																
SERVICE KIT (ITEM NO.)	1×102542	1×102542, 1×107185	1×102542, 1×107185, 1×102538	1×102542, 1×107185, 1×102538	1×102542, 1×107185, 1×102538	1×102543	1×102542, 1×107185	1×102542, 1×107185, 1×102538	1×102542, 1×107185, 1×102538	1×102542, 1×107185, 1×102538	1×102544	1×102542, 1×107185	1×102545	1×102542, 1×107185	1×102542, 1×107185, 1×102538	1×102542, 1×107185, 1×102538	1×102542, 1×107185, 1×102538
SEALING KIT (ITEM NO.)	1×102511, 1×107185	1×102511, 1×107185	1×102511, 1×107185, 1×102538	1×102511, 1×107185, 1×102538	1×102511, 1×107185, 1×102538	1×102511	1×102511, 1×107185	1×102511, 1×107185, 1×102538	1×102511, 1×107185, 1×102538	1×102511, 1×107185, 1×102538	1×102511	1×102511, 1×107185	1×102511	1×102511, 1×107185	1×102511, 1×107185, 1×102538	1×102511, 1×107185, 1×102538	1×102511, 1×107185, 1×102538

GL Range	GL 1D		GL 2D		GL 3D	GL 4D	
	GL 1D / MCG	GL 1D / MSG	GL 2D / MCG	GL 2D / MSG	GL 3D / M	GL 4D / MCG	GL 4D / MSG
CONNECTION							
Inlet 1	G 3/4″ LH M		G 3/4″ M		G 3/4″ M	G 3/4″ F	
Outlet 1	G 1/2″ LH M		G 3/8″ M		G 1/2″ M	G 1/2″ F	
Outlet 2	G 1/2″ LH M		G 3/8″ M		G 1/2″ M	G 1/2″ F	
BYPASS							
Main-solenoid valve	2	2	2	2	1	2	2
Bypass-solenoid valve with manometer-connection	–	2	–	2	–	–	2
Bypass-solenoid valve without manometer-connection	–	–	–	–	–	–	–
Bypass-regulator valve with manometer-connection	2	–	2	–	–	2	–
REGULATE	Manual		Manual		Manual	Manual	
MEDIUM	CPM		Oxygen		Oxygen	Acetylene	
MATERIAL	Main body: Brass / Wetted parts: Brass & stainless steel / Diaphragms & seals: Nitrile						
SERVICE KIT	1×102542, 1×102543, 2×102538	1×102542, 1×102543, 2×102538	1×102542, 1×102543, 2×102538	1×102542, 1×102543, 2×102538	2×102544	1×102542, 1×102543, 2×102538	1×102542, 1×102543, 2×102538
SEALING KIT	1×111099, 2×102538	1×111099, 2×102538	1×111099, 2×102538	1×111099, 2×102538	2×102513	1×111099, 2×102538	1×111099, 2×102538

KUPPEL VALVES

Regulators

The dome-loaded pressure regulators in the AMT product portfolio are labelled with a “K”.
A regulating unit is required to prevent occasional pressure variations in the medium network from reaching the torches. Combine with AMT Gega flow controllers or AMT Gega fine adjustment valves to achieve ideal torch settings. Many equipment options are available to comply with specific customer requirements.
The advantages of this regulator are in the compact construction. In addition, the unit can be controlled electrically from the console, depending on the selected equipment variant, making the manual adjustment of pressure settings in a danger zone obsolete. A further performance characteristic is the comparably high medium throughput.

K 20

KB 42

MAIN CHARACTERISTICS

Product	KB-S
Max. pressure K 20	40 bar
Max. pressure KB(S) 42	50 bar

Type	K 20	KB(S) 42	KB(S) 42	KB(S) 42
CONNECTION				
Inlet 1	G 3/4″ M	M64X 4 F	Flange DN50/ 60.3 PN40	G 1 1/4″ LH M
Outlet 1	G 3/4″ M	M64X 4 F	Flange DN50/ 60.3 PN40	G 1 1/4″ LH M
REGULATE				
KB / A	electrical	electrical	electrical	electrical
KB / B	electrical	electrical	electrical	electrical
KB / C	manual	manual	manual	manual
CONTROL				
KB / A	internal	internal	internal	internal
KB / B	external	external	external	external
KB / C	external	external	external	external
MEDIUM	CPM, Oxygen	CPM, Oxygen	CPM, Oxygen	CPM, Oxygen
MATERIAL	Brass	Brass or stainless steel	Brass or stainless steel	Brass or stainless steel
SEALING KIT (ITEM NO.)	102686	106503	106503	106503

GK RANGE

Regulators

The AMT Gega GK range is a high-end regulator range, which is based on the proven technique of GL-Series. Basically, the GK-regulator offers all advantages such as being robust, user friendly and accurate in adjustment and pressure setting. In addition to the GL-type, the GK-type is chosen if an automatic pressure control and adjustment is desired. In this case, the connection via PLC control automates the switching of the flame between its various modes and also control constant operating pressures.

MAIN CHARACTERISTICS

Operating media		Heating gas, Oxygen
Application		Regulation of pressure for required system pressure
Main parts		Solid die casting housing, inlet-ballvalve, dirt trap, lockable pressure gauges, adjusting toggle for pressure adjusting
Optional		Main Solenoid valve, Bypass valve for the integrated pilot flame (with Solenoid valve if required)
Pressure		Maximal inlet pressure 40 bar Maximal outlet pressure 37,7 bar Operating pressure 0,5 to 18 bar
Weight		10 to 12 kg depending on version
Product variations		All GK series contain two versions: - Single outlet - Double outlet (for using 2 torches)
	Type S	Bypass with solenoid valve (w/o Manometerconnector)
	Type CG	Bypass with manometerconnector (w/o solenoid valve)
	Type SG	Bypass with solenoid valve and manometerconnector
Item no.		Available on request

MACHINE SCARFER

Scarfer

The ranges MH and MHD are large-scale scarfing burners of the AMT group. The sophisticated technology inside enables a high finish quality for the scarfing process. With the help of the machine scarfer, finish errors such as heat cracks or shrinkage cavities are eliminated. Due to the high AMT Gega standard with regards to choice of materials and manufacturing precision, a stable process is achieved in the surface removal, with long service lives. For better interchangeability of components with a high thermal load, the entire unit has a modular structure. Various widths of scarfers are available, so that an individually customized solution can be offered.
Available on request.

MH 300

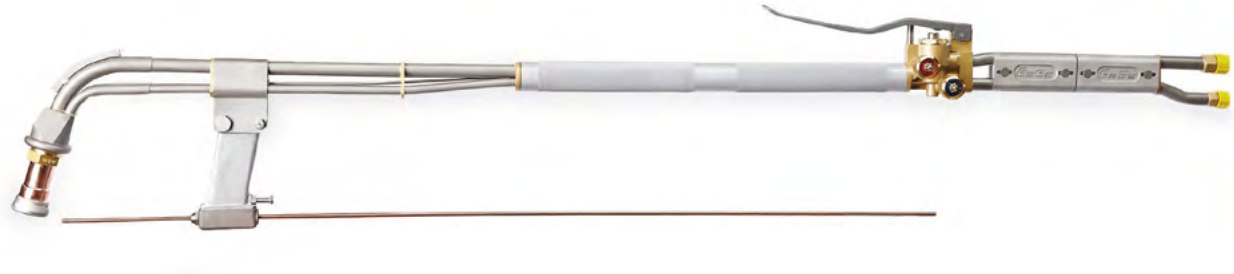
MHD 300

HAND SCARFER

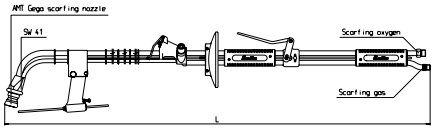
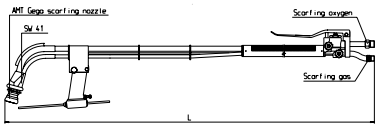
Scarfer

Hand scarfers from AMT Gega bear the designation MST and SHF. The latest version of the hand scarfer, the MST variant, impresses with its light construction and thusly improved ergonomics. By integrating the scarf oxygen valve into the heating medium regulator, improved handling is achieved. The SHF is a heavy design and distinguishes itself with various safety applications. A shield is installed, which protects the user from hazardous flame. Combined with the flaming nozzle HFD 1F, this equipment makes an impressive manual component, scarfing efficiently at a high level. Experience a particularly wide scarfing track with very good ergonomics in this particular setup. All AMT Gega hand scarfing torches are fitted with an automatic ignition wire feed rate, enhancing the ignition behaviour of the scarfer significantly

SHF-100 F 1500



MST 1500

	SHF-100 F 1500	MST 1500	MST 1200 CGA
			
LENGTH (mm)	**109448**	**111581**	**111815**
DIMENSIONS (mm)			
Length	1500	1500	1200
Spanner width	41	41	41
CONNECTIONS			
Scarfing oxygen	G 1/2″	G 1/2″	7/8″ UNF/ CGA
Heating gas	G 3/8″LH	G 3/8″LH	9/16″ UNF/ CGA
APPLICABLE NOZZLES (ITEM NO.)			
HFD 1 F	107648	107648	107648

LG/GRM

Safety Devices

	GRM	GRM	GRM	GRM	GRM	GRM
ITEM NO.	**107805**	**106548**	**106986**	**107360**	**106857**	**107800**
MAX. PRESSURE (bar)	25	25	25	25	25	25
MEDIUM	Oxygen	Oxygen	Oxygen	Oxygen	Oxygen	Oxygen
CONNECTION						
Inlet 1	G 1/4″ M	G 3/8″ M	G 1/2″ M	UNF 7/8″ CGA M	UNF 1 1/16″ JIC M	W 24-14 M
Outlet 1	G 1/4″ F	G 3/8″ F	G 1/2″ F	UNF 7/8″ CGA F	UNF 1 1/16″ JIC F	W 24-14 F
DIMENSIONS (mm)						
Height	118	119	125	134	142	135
Width	32	32	32	32	32	32
Length	32	32	32	32	32	32
APPLICABLE TORCHES						
SBK 500 F	+					
SB 500 F		+			+	+
SB 800 F			+			
HOBS 1S		+				

LG/GRM D

Safety Devices

	GRM D	GRM D	GRM D	GRM D	GRM D	GRM D	GRM D
ITEM NO.	**107807**	**107798**	**107803**	**107809**	**111773**	**107808**	**107799**
MAX. PRESSURE (bar)	5	5	5	5	5	5	5
MEDIUM	CPM	CPM	CPM	CPM	CPM	CPM	CPM
CONNECTION							
Inlet 1	G 3/8″ LH M	G 3/4″ LH M	G 1/2″ LH M	UNF 7/8″ JIC M	UNF 1 1/16″ JIC M	UNF 7/8″ LH CGA M	W 28-18 LH M
Outlet 1	G 3/8″ LH F	G 3/4″ LH F	G 1/2″ LH F	UNF 7/8″ JIC F	UNF 1 1/16″ JIC F	UNF 7/8″ LH CGA F	W28-18 LH F
DIMENSIONS (mm)							
Height	165	177	171	186	185	181	135
Width	32	32	32	32	32	32	32
Length	32	32	32	32	32	32	32
APPLICABLE TORCHES							
SBK 500 F	+						
SB 500 F			+	+			+
HOBS 1S			+				

LG/GRM D R1.0

Safety Devices

	GRM D R1.0	GRM D R1.0	GRM D R1.0
ITEM NO.	**110393**	**107966**	**112025**
MAX. PRESSURE (bar)	10	10	10
MEDIUM	CPM	CPM	CPM
CONNECTION			
Inlet 1	G 3/8″ LH M	G 1/2″ LH M	UNF 9/16″ LH CGA M
Outlet 1	G 3/8″ LH F	G 1/2″ LH F	UNF 9/16″ LH CGA F
DIMENSIONS (mm)			
Height	165	171	162
Width	32	32	32
Length	32	32	32
APPLICABLE TORCHES			
SBK 500 F	+		
SB 500 F		+	
HOBS 1S		+	

SIMAX 5 / SIMAX 8

Safety Devices

	SIMAX 5	SIMAX 5	SIMAX 5	SIMAX 5	SIMAX 5
ITEM NO.	**106622**	**106847**	**110785**	**106655**	**106654**
MAX. PRESSURE (bar)	5	15	5	15	5
MEDIUM	CPM	Oxygen	Coke oven gas	Oxygen	CPM
CONNECTION					
Inlet 1	G 1″ F	G 1″ F	G 1″ F	G 1″ F	G 1″ F
Outlet 1	G 1″ F	G 1″ F	G 1″ F	G 1″ F	G 1″ F
DIMENSIONS (mm)					
Height	160	160	163	172	172
Width	89	89	89	117	117
Length	89	89	89	117	117

SIMAX LG VII

Safety Devices

	SIMAX LG	SIMAX LG	SIMAX LG	SIMAX LG
ITEM NO.	**113137**	**113136**	**106623**	**106629**
MAX. PRESSURE (bar)	25	2.5	25	2.5
MEDIUM	Oxygen	CPM	Oxygen	Oxygen
CONNECTION				
Inlet 1	G 3/4″ M	G 1″ LH M	G 1 1/4″ F	G 1 1/4″ F
Outlet 1	G 3/4″ M	G 1″ LH M	G 1 1/4″ F	G 1 1/4″ F
DIMENSIONS (mm)				
Height	175	175	146	146
Width	75	75	75	75
Length	75	75	75	75
APPLICABLE TORCHES				
SB 800 F				+
SB 1200	+	+		

SIMAX 4NH

Safety Devices

	SIMAX 4NH
ITEM NO.	**109300**
MAX. PRESSURE	12
MEDIUM	CPM
CONNECTION	
Inlet 1	G 1″ F
Outlet 1	G 1″ F
DIMENSIONS (mm)	
Height	146
Width	75
Length	75
APPLICABLE ITEM	
Gas control unit	+

DEMAX 5

Safety Devices

	DEMAX 5	DEMAX 5	DEMAX 5	DEMAX 5	DEMAX 5	DEMAX 5
ITEM NO.	**106626**	**106627**	**107788**	**107789**	**113351**	**113352**
MAX. PRESSURE	5	25	25	5	25	5
MEDIUM	CPM	Oxygen	Oxygen	CPM	Oxygen	CPM
CONNECTION						
Inlet 1	G 3/8″ LH F	G 1/2″ F	G 1″ F	G 1″ F	G 3/4″ M	G 3/4″ M
Outlet 1	G 3/8″ LH M	G 1/2″ M	G 1″ F	G 1″ F	G 3/4" F	G 3/4″ F
DIMENSIONS (mm)						
Height	142	150	111	111	n/a	n/a
Width	60	60	65	65	n/a	n/a
Length	60	60	65	65	n/a	n/a
APPLICABLE ITEM						
Gas control unit	+	+	+	+	+	+

LG/GRM/S

Non-Return Devices

	GRM/S	GRM/S	GRM/S	GRM/S	GRM/S	GRM/S	GRM/S
ITEM NO.	**106552**	**106549**	**113159**	**108398**	**108246**	**106846**	**107496**
MAX. PRESSURE	25	25	25	25	25	25	25
MEDIUM	Oxygen	Oxygen	Oxygen	Oxygen	Oxygen	Oxygen	Oxygen
CONNECTION							
Inlet 1	G 3/8″ M	G 1/2″ M	G 3/4″ M	W 28-18 JIS M	UNF 7/8″ CGA M	UNF 1 1/16″ JIC M	UNF 1 1/4″ CGA M
Outlet 1	G 3/8″ F	G 1/2″ F	G 3/4″ F	W 28-18 JIS F	UNF 7/8″ CGA F	UNF 1 1/16″ JIC F	UNF 1 1/4″ CGA F
DIMENSIONS (mm)							
Height	119	125	n/a	135	134	142	139
Width	32	32	32	32	32	32	32
Length	32	32	32	32	32	32	32
APPLICABLE TORCHES							
SBK 500 F	+						
SB 500 F		+		+	+	+	
SB 800 F			+				
HOBS 1S		+					

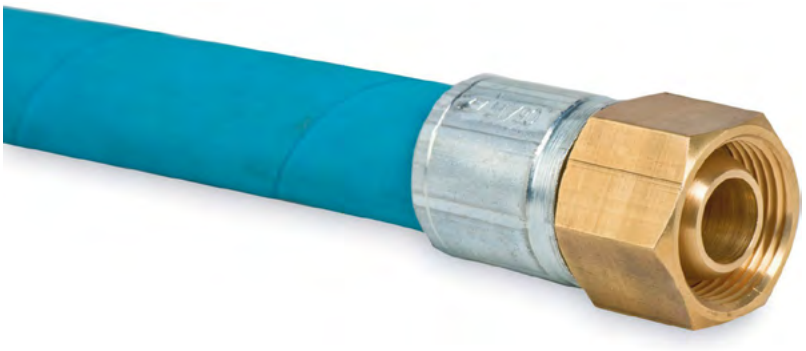
GRV2-20

Non-Return Devices

	GRV2-20	GRV2-20	GRV2-20	GRV2-20	GRV2-20	GRV2-20	GRV2-25
ITEM NO.	**107581**	**107580**	**109166**	**109168**	**109167**	**109169**	**111132**
MAX. PRESSURE	10	10	10	10	10	10	10
MEDIUM	Oxygen	CPM	Oxygen	CPM	Oxygen	CPM	CPM
CONNECTION							
Inlet 1	G 3/4″	G 3/4″	G 1″	G 1″	G 1 1/4″	G 1 1/4″	G 1″
Outlet 1	G 3/4″	G 3/4″	G 1″	G 1″	G 1 1/4″	G 1 1/4″	G 1″
DIMENSIONS (mm)							
Height	126	126	126	126	126	126	127
Width	65	65	65	65	65	65	65
Length	65	65	65	65	65	65	65

2SS

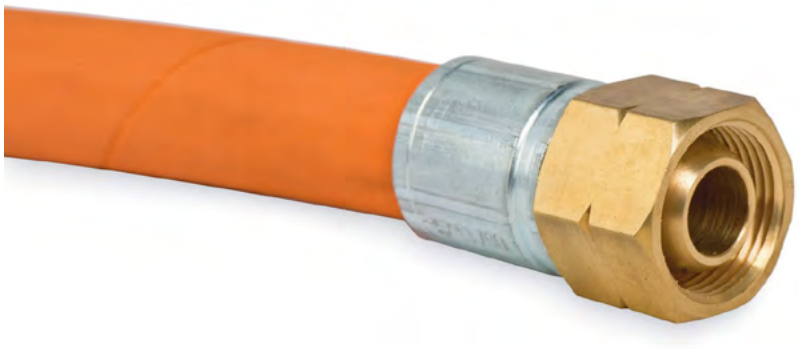
Hoses



DIMENSIONS					
Nominal size	DN 12	DN 16	DN 25	DN 31	DN 38
Inside (mm)	12.7	15.9	25,4	31,8	38,1
Outside (mm)	19.7	23.9	34,4	42,3	49,6
MEDIUM	Oxygen	Oxygen	Oxygen	Oxygen	Oxygen
COLOR CODING	Blue	Blue	Blue	Blue	Blue
WORKING PRESSURE (bar)	25	25	25	25	25
TEST PRESSURE (bar)	50	50	50	50	50
MEDIUM TEMP. (°C)	-30 – 60	-30 – 60	-30 – 60	-30 – 60	-30 – 60
WORKING TEMP. (°C)	-40 – 100	-40 – 100	-40 – 100	-40 – 100	-40 – 100
BEND RADIUS (mm)	70	90	150	190	240

2SG

Hoses



ITEM NO.	108353	108354	108355	108357
DIMENSIONS				
Nominal size	DN10	DN12	DN16	DN25
Inside (mm)	9.5	12.7	15.9	25.4
Outside (mm)	16.5	19.7	23.9	34.4
MEDIUM	CPM	CPM	CPM	CPM
COLOR CODING	Red	Red	Red	Red
WORKING PRESSURE (bar)	25	25	25	25
TEST PRESSURE (bar)	50	50	50	50
MEDIUM TEMP. (°C)	-30 – 60	-30 – 60	-30 – 60	-30 – 60
WORKING TEMP. (°C)	-40 – 100	-40 – 100	-40 – 100	-40 – 100
BEND RADIUS (mm)	60	70	90	150

2TE

Hoses

ITEM NO.	105666	105667	105668	105669	105670
DIMENSIONS					
Nominal size	DN10	DN12	DN16	DN19	DN25
Inside (mm)	9.5	12.7	15.9	19	26.4
Outside (mm)	16.5	19.7	19.7	27	34.4
MEDIUM	Water & air	Water & air	Water & air	Water & air	Water & air
COLOR CODING	Black	Black	Black	Black	Black
WORKING PRESSURE (bar)	25	25	25	25	25
TEST PRESSURE (bar)	50	50	50	50	50
MEDIUM TEMP. (°C)	-30 – 60	-30 – 60	-30 – 60	-30 – 60	-30 – 60
WORKING TEMP. (°C)	-40 – 100	-40 – 100	-40 – 100	-40 – 100	-40 – 100
BEND RADIUS (mm)	60	70	90	110	150

3TE

Hoses

ITEM NO.	105671	105672
DIMENSIONS		
Nominal size	DN31	DN38
Inside (mm)	31.8	38.1
Outside (mm)	52.3	49.6
MEDIUM	Water & air	Water & air
COLOR CODING	Black	Black
WORKING PRESSURE (bar)	45	40
TEST PRESSURE (bar)	90	80
MEDIUM TEMP. (°C)	-30 – 60	-30 – 60
WORKING TEMP. (°C)	-40 – 100	-40 – 100
BEND RADIUS (mm)	190	240

PTFE

Hoses

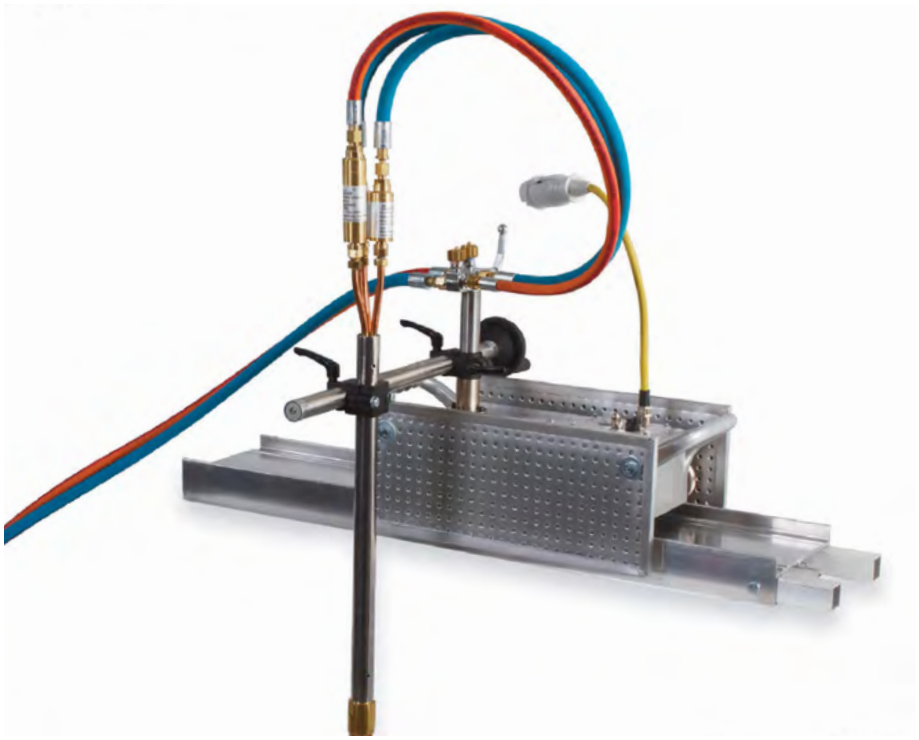
ITEM NO.	105675	105676	105677	105678	105679	105680
DIMENSIONS						
Nominal size	DN6	DN10	DN12	DN16	DN19	DN25
Inside (mm)	4.8 – 5.4	9.9 – 10.6	13 – 13.4	16.1 – 17.1	19.3 – 20.3	25.6 – 26.6
Outside (mm)	10 – 10.5	14.1 – 14.7	17.2 – 18.1	20 – 20.9	24.5 – 25.5	30.1 – 30.8
MEDIUM	All	All	All	All	All	All
COLOR CODING	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
WORKING PRESSURE (bar)	224	183	189	114	103	80
TEST PRESSURE (bar)	793	552	566	345	310	241
WORKING TEMP. (°C)	-70 – 260	-70 – 260	-70 – 260	-70 – 260	-70 – 260	-70 – 260
BEND RADIUS (mm)	85	135	165	195	225	305

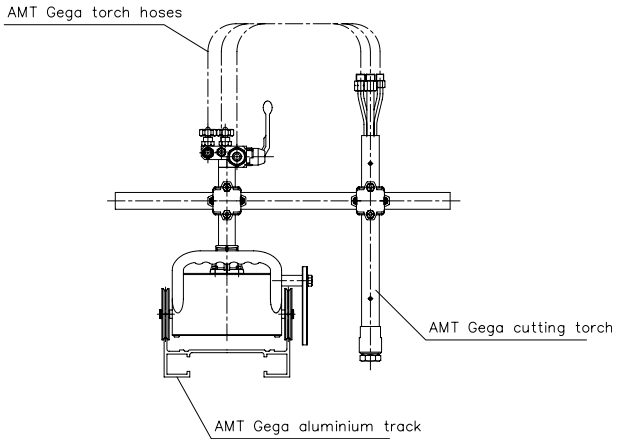
CORTI/CORTI EVOLUTION

Mobile Equipment

AMT Gega also offers a portable flame cutting machine. The AMT Gega Corti offers a high level of flexibility with regards to its area of use. The light and robust aluminum casing offers the perfect housing for the speed controller, operated via a potentiometer.
Cutting is carried out by AMT Gega flame cutters in the SB range, tried and tested over many years. These were optimized to be adapted to the requirements of a compact cutting system. The Corti is guided by a special aluminum rail, which is divided into sections with a maximum length of 6 meters.

The Corti Evolution is our portable cutting solution specifically for flexible and non-stationary cutting applications.
The Corti Evolution can be used for multiple tasks and is suitable for all challenges - e.g. inline emergency cuts in the continuous casting process, offline cuts such as longitudinal-, cross- or scrap cutting. Specifically designed to combine high performance cutting with user-friendly handling, the Corti Evolution is the best choice for any flexible cutting operation. In addition to a variety of improvements, the Corti Evolution also offers the option of being controlled via a WiFi remote control.





ITEM NO.	111122	112221
CONNECTION		
Voltage (V)	230	115
Compressed air	optional	optional
Oxygen	G 1/2″	UNF 7/8″ CGA
Gas	G 3/8″ LH	UNF 9/16″ LH CGA
DIMENSIONS (mm)		
Track width	220	220
Height	~ 360	~ 360
Width	~ 550	~ 550
Length	~ 300	~ 300
ARM LENGTH (mm)	230 – 535	230 – 535
SPEED MAX. (mm/min)	500	500
WEIGHT (kg)	22	22
HEAT PROTECTION	optional	optional

GAS CONTROL PANEL

Mobile Equipment

AMT Gega also offers a portable flame cutting machine. The AMT Gega Corti offers a high level of flexibility with regards to your area of use. The light and robust aluminum casing offers the perfect housing for the speed controller operated via a potentiometer. Cutting is carried out by AMT Gega flame cutters in the SB range, tried and tested over many years. These were optimised to be adapted to the requirements of a compact cutting system. The Corti is guided by a special aluminum rail, which is divided into sections with a maximum length of 6 metres.

Gas control panel

ITEM NO.	109314	111364
CONNECTION		
Compressed air	-	G 1/2”
Oxygen	G 1/2” ; UNF 7/8” CGA	G 1/2” ; UNF 7/8” CGA
Gas	G 3/8” LH ; UNF 9/16” LH CGA	G 3/8” LH ; UNF 9/16” LH CGA
DIMENSIONS (mm)		
Height	850	850
Width	500	500
Length	165	165
WEIGHT (kg)	39	42
HEAT PROTECTION	optional	optional

PRESSURE MEASURING

Additional Equipment for Maintenance

Due to the varying structure of AMT Gega machines, there are also various line resistances. In order to measure the optimum pressure in any cutting system, measurement points are set up at defined positions. The necessary components for these measurement points are the available as AMT Gega pressure measuring devices. In the instance of torches, a measuring boss is integrated between the torch connection and the hose connection, facilitating reading and adjustment of the optimal torch pressure. In connection with the AMT Gega measuring coupling, this measurement point can remain permanently installed.

EU standard connection

ITEM NO.	103507	103508	103509	112481	112479	112480
MEDIUM	Heating oxygen	Cutting oxygen	CPM	Heating oxygen	Cutting xygen	CPM
CONNECTION						
Inlet 1	G 3/8″ M	G 1/2″ M	G 1/2″ LH M	G 3/4″ M	G 1″ M	G 1″LH M
Outlet 1	G 3/8″ F	G 1/2″ F	G 1/2″ LH F	G 3/4″ F	G 1″ F	G 1″LH M
DIMENSIONS (mm)						
Height	180	180	180	180	180	185
Width	20	20	20	30	30	30
Length	72	82	82	110	116.5	116.5
APPLICABLE TORCHES						
SB 500 F	+	+	+			
SB 1200				+	+	+

US standard connection

ITEM NO.	112701	112831	112702
MEDIUM	Heating Oxygen	Cutting Oxygen	CPM
CONNECTION			
Inlet 1	UNF/JIC 1 1/16 M	UNF/JIC 1 1/16 M	UNF/JIC 7/8 M
Outlet 1	UNF/JIC 1 1/16 F	UNF/JIC 1 1/16 F	UNF/JIC 7/8 F
DIMENSIONS (mm)			
Height	185	185	181
Width	20	20	20
Length	110	110	90
APPLICABLE TORCHES			
SB 500 F	+	+	+
SB 1200			

NOZZLE SEAT REAMER

Additional Equipment for Maintenance

For the maintenance of torches, AMT Gega provides a tool to remill the nozzle seat, a great way of extending equipment lifetime after numerous nozzle changes.

ITEM NO.	110411	112267	111379	103304	110837
APPLICABLE TORCHES					
SB 500 F	+				
SBK 500 F	+				
SB 800 F		+			
SB 1200			+		
SHBA (S) 1280				+	
SHBA (S)-M(S) F	+				
MST 1500					+
MST 1200 CGA					+
SHF 100-F-1500					+

GASKET REPAIR SET

Additional Equipment for Maintenance

Several repair kits and gasket sets have been compiled for the maintenance of AMT Gega regulating units. The range starts with a basic set and goes right up to specially compiled sets for the various construction stages. The scope of delivery includes seals and mechanically strained wearing components. The components of the gasket set include special seals for the regulator type and a suitable O-ring set. Please get in touch with our Life Cycle Management team to discuss maintenance by Gega specialists on site.

Service kit

ITEM NO.	102542	107185	102538	102543	112655	102534	102544	
REGULATORS								
GS	1							
GL S	1							
GL S M	1	1						
GL S MS	1	1	1					
GL S MCG	1	1	1					
GL S MSG	1	1	1					
GL D M							2	
GL D MCG	1		2	1				
GL D MSG	1		2	1				
VALVES								
Typ 966								
Typ 880						1		
Typ 955					1			

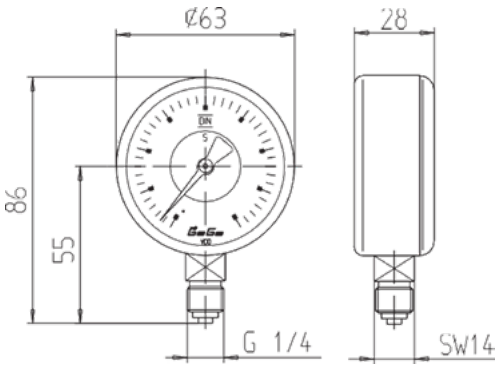
Sealing kit

ITEM NO.	102511	107185	102538	111099	106503	102513	102686	102760
REGULATORS								
GS	1							
GL S	1							
GL S M	1	1						
GL S MS	1	1	1					
GL S MCG	1	1	1					
GL S MSG	1	1	1					
GL D M						1		
GL D MCG			1	1				
K 20							1	
KB(S) 42					1			
VALVES								
Typ 966								1

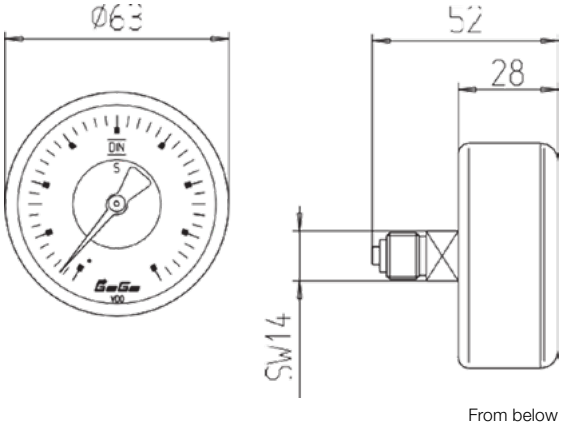
PRESSURE GAUGE

Additional Equipment for Maintenance

AMT Gega also has manual pressure measuring systems in the product range. The manometers are subject to strict requirements, which apply when dealing with oxygen and CPM. They are also particularly long lasting, due to the stable brass casing and the use of inspection glasses made of safety glass. The high-quality connections made of brass can be attached concentrically behind, or radially below.



Bottom-up



From below

Pressure gauge / bottom up

ITEM NO.	103481	103482	103483	103484	103485
PRESSURE RANGE					
Pressure range (bar)	0 – 25	0 – 4	0 – 25	0 – 40	0 – 2.5
Pressure range (kg/cm^2)	–	–	–	–	–
Pressure range (PSI)	–	–	–	–	–
MEDIUM	Oxygen	Oxygen	Oxygen	Oxygen	CPM. water, air

Pressure gauge / bottom up

ITEM NO.	103486	103487	103498	103499	103500
PRESSURE RANGE					
Pressure range (bar)	0 – 4	0 – 10	–	–	–
Pressure range (kg/cm^2)	–	–	0 – 2.5	0 – 4	0 – 25
Pressure range (PSI)	–	–	–	–	–
MEDIUM	CPM, water, air	CPM, water, air	Oxygen	Oxygen	Oxygen

Pressure gauge / bottom up

ITEM NO.	103501	103502	103503	113891	113892
PRESSURE RANGE					
Pressure range (bar)	–	–	–	–	–
Pressure range (kg/cm^2)	0 – 2.5	0 – 4	0 – 10	–	–
Pressure range (PSI)	–	–	–	0 – 100	0 – 300
MEDIUM	CPM, water, air	CPM, water, air	CPM, water, air	Oxygen	Oxygen

Pressure gauge / from below

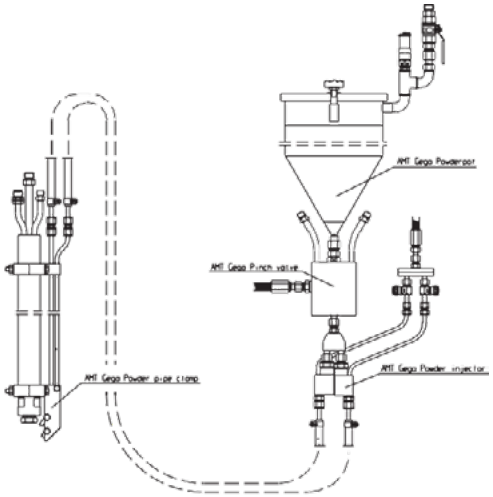
ITEM NO.	103645	103646	103647	103648
PRESSURE RANGE				
Pressure range (bar)	0 – 4	0 – 25	0 – 40	0 – 2.5
MEDIUM	Oxygen	Oxygen	Oxygen	CPM, water, air

Pressure gauge / from below

ITEM NO.	103649	103650	103651	103652
PRESSURE RANGE				
Pressure range (bar)	0 – 4	0 – 10	0 – 1	0 – 16
MEDIUM	CPM, water, air	CPM, water, air	CPM, water, air	CPM, water, air

POWDER EQUIPMENT

Upgrade Equipment



The autogenous process is conventionally limited to certain types of steel. In order to extend these limits, AMT Gega offers a powder system. By inserting Fe powder into the cutting jet, a temperature increase is generated, with which the processing of an extended product range is made possible.

The optionally available AMT Gega powder system is specially adapted to AMT Gega machines. By using sophisticated components within the system, a high process safety is achieved. Whether manual operation or automatic mode, an optimum powder flow is always provided. The AMT Gega Powder equipment consists of the AMT Gega Powderpot, AMT Gega Pinch valve, AMT Gega Powder Injector and AMT Gega Powder pipe clamp. Optionally, the powderflow can be designed in a double and a single outlet.

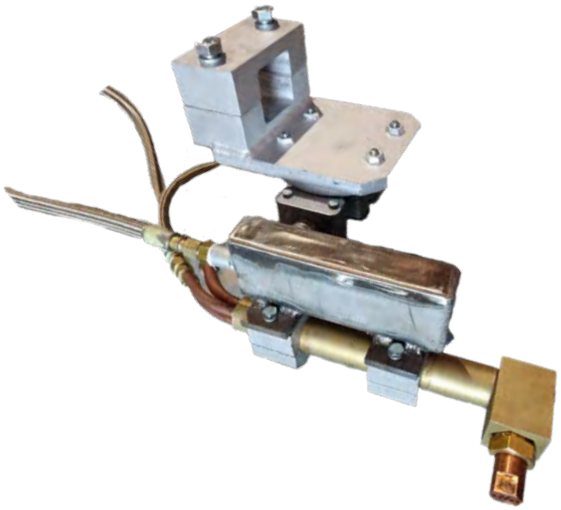
Feeding of iron powder into the cutting jet is facilitated via a tube running parallel to the torch. This tube is fitted in front of the torch regarding the cutting direction. The iron powder is fed through components positioned between the container for iron powder and the feed pipe. The container for iron powder is equipped with a level indicator. It can be filled manually either on the platform or at the machine, depending on its position.

MAIN CHARACTERISTICS

Application	Cutting of stainless steel
Variations	Stationary & movable
Optional	Air dryer, powder container in front of the machine (for automatic refilling of the containers on the machine), alignment of the iron powder feed pipe at the torch according to the cutting direction (longitudinal resp. transversal)
Characteristics	Highest quality standard. Long lifetime. Well-developed ergonomics. Optimum safety (longitudinal resp. transversal)
GEGA Service	Planning, design and supply of the powder equipment, provision of spare parts, retrofitting of powder equipment on existing machines

OXYGEN DEBURRER

Inline Deburring for Blooms, Billets and Slabs



The deburring process is carried out simultaneously to the cutting process. The removal of the cutting beard (burr) will be done by a constant oxygen blast. As a consequence, there is no necessity for further downstream equipment and the material is quicker available for the next process steps. Permanent removal of the burr with a cost reduction by higher throughput.

MAIN CHARACTERISTICS

Application	Inline deburring for blooms, billets and slabs
Variations	Adaptable to all types of billets and blooms by stationary or moveable solution
Advantages	» Reliable burr removal by a constant oxygen blast during the cutting process » Media pressure control by an individual regulator » Time saving by simultaneous cutting and deburring

GAS TECHNOLOGY

Proven Technique

Each and every torch cutting machine is expertly assembled and thoroughly tested. This guarantees perfect on-site functionality and unmatched safety - far exceeding the European Safety standard DIN EN 14753. In order to reach high quality performances, it is very important to have an accurate pressure regulation of the cutting and heating media integrated in a most advanced autogenous cutting system.

In this way Gega has a portfolio of regulation equipment and autogenous cutting system components adapted to your needs and to a rational configuration of your equipment. From the simple pressure regulation to the remote-controlled AMT Gega offers the ideal solution.

In addition to the worldwide-recognized gas technology for torch cutting machines, the AMT Gega-Portfolio also includes the respective gas technology for pre-heating and drying stations as well as for various flame-scarfing applications. A vast range of burner capacities provides a tailor-made design for individual pre-heating requirements, from simple shroud heating up to complex refractory cooling of ladles.
Flame-scarfing equipment by AMT Gega scarfing burner and it's related media control equipment ensures preparing slabs for high quality applications.

Finally, oxygen deburring equipment with AMT Gega-Gas Technology has been developed to make downstream product handling process more efficient to our customers.

GAS REGULATION

Additional Safety Equipment

Gas Control Panel

The gas control panel is built according to the current safety requirement. We can also upgrade existing machines with a tailor made and new designed gas control panel

APPLICATION: Gas regulation

Your Advantages

» Higher safety
» Compact and clearly arranged
» Operating costs are lower due to ideal regulation

Filter Station with Emergency Shut off Valves

Filter station for gas and oxygen protects the media components against dirt or obstructions. In particular dirty gas is blocking flash-back arrestors with high-risk potential for bad cutting quality or even cutting torch failure.

APPLICATION: For machine reliability

Your Advantages

» Compact unit

Emergency Shut off Station

Emergency shut-off station for gas and oxygen enables to interrupt the media supply lines towards the machine in case of emergency. Also release of pressure in supply-line can be integrated

APPLICATION: For machine reliability

Your Advantages

» Compact unit

Auto-Ignition and Flame Supervision

Our solution to ignite cutting torches installed at inline torch cutting machines is located at the home position of the machine on the main frame. Apart from electrical ignition, the pilot flame is supervised by ionization, thus it is intended for safe operation of the TCM in compliance with DIN EN 14753. To enhance the flame-control, an additional UV-flame supervision on each torch can be provided-for.

APPLICATION: For machine safety

Your Advantages

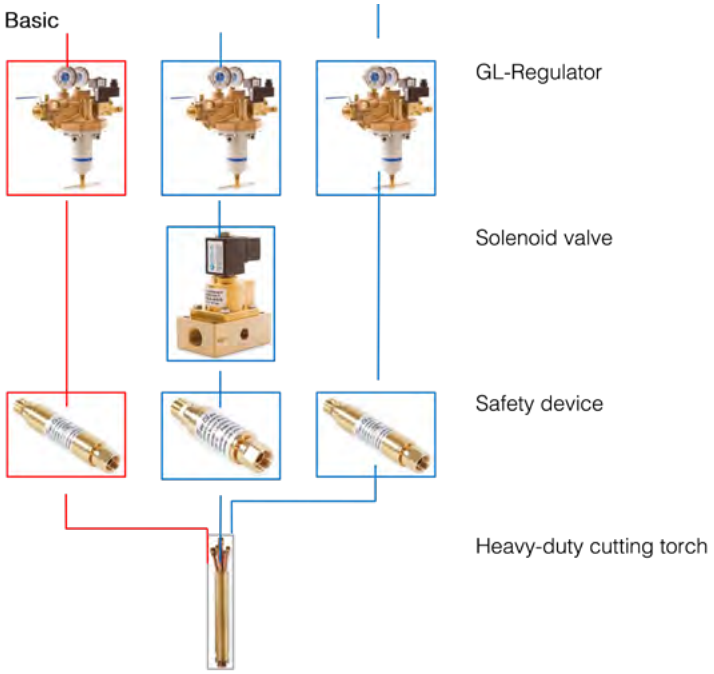
» Automated flame control

GAS REGULATION

Media Distribution and Regulation

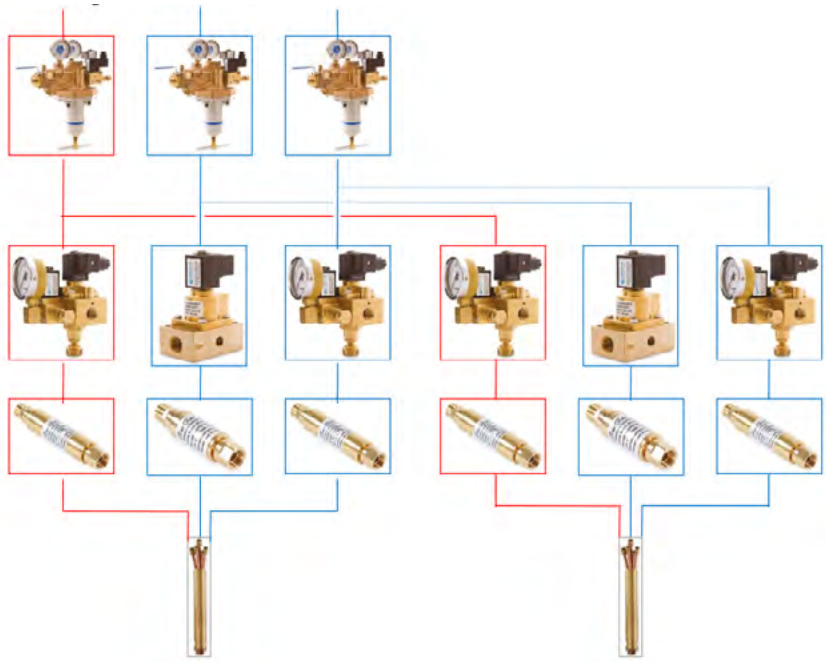
Basic Configuration

The basic installation of an autogenous torch cutter is consisting of regulators, oxygen valve, safety devices and cutting torch.



Gas Regulation for Slab Cutting

The installation of the gas regulation is compact and clearly arranged. Due to the fact that the gas control panel is positioned on the machine the accuracy of regulation is precise and reliable. Additional mass-flow controllers in vicinity to cutting torch ensures a constant and controlled media supply.

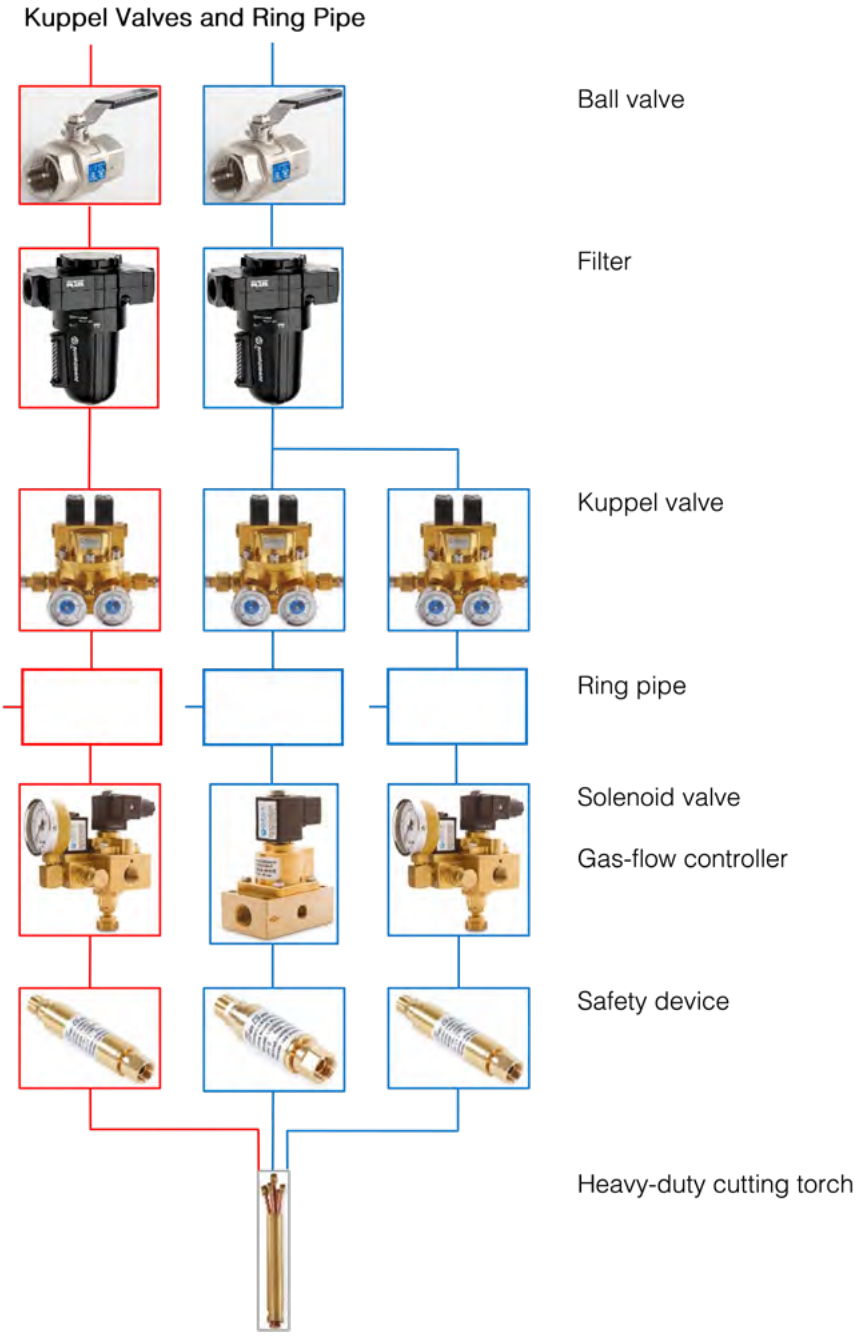


GAS REGULATION

Media Distribution and Regulation

Central Gas Control Panel for Billet Machines

Main Gas Control Panel with three Kuppel Valves and individual mass flow controllers combines slim design and possibility of individual machine media regulation.



GAS REGULATION

Equipment for Media Saving

Multi-Stage Heating System

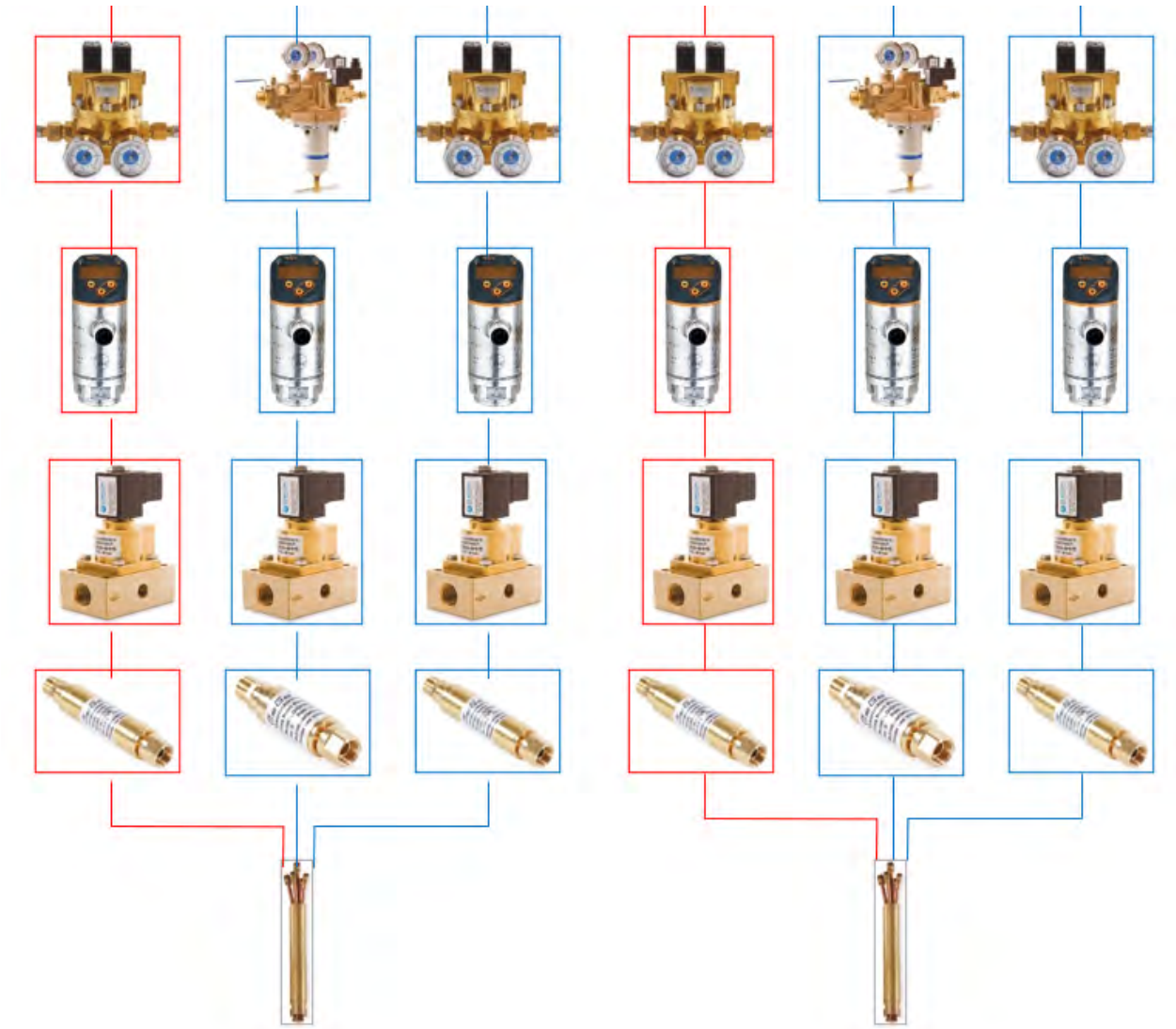
The Multistage system is used for the automatic, economical pressure control of heating flames (heating gas and heating oxygen). The media pressure is monitored by a pressure transmitter installed in front of cutting torch. A control loop is implemented in the PLC-programme, and the media pressure is controlled via the respective gas regulator.

Variants

» Klick-Klack-Solution: Two solenoid valves are installed in the dome of the controller, which regulate the control pressure and thus media flow.
» Control by proportional valve: The proportional valve regulates the control pressure internally, quickly and reliably reaction to pressure fluctuations.

Your Advantages

» Line pressure control is automatic
» No mass flow valves on the burner car are necessary
» Media savings by reducing the heating flame



GAS REGULATION

Equipment for Green Transformation

Energy Saving and Environment Friendly Systems

The AMT Gega Gas Regulator of PG-Type is specially designed for different variants of gas regulation. Whether with pressure regulators or more sophisticated with additional proportional valves.

GK Regulator Series

» Constant pressure supervision of gas and oxygen by pressure sensors mounted close to the torch
» PLC-implemented control loop and setpoint regulation via GK-regulator series

Your Advantages

» Adjusting the individual media pressures speed
» Lowering media consumption
» Application: Media Control

Hydrogen Cutting for Energy Transition

Hydrogen is of great importance for the completion of the global energy transition. In the meantime, hydrogen has also become a key technology for the steel industry in order to make this sector future-proof and sustainable. However, the way to the hydrogen implementation of oxyfuel cutting has to solve a number of problems. As the smallest molecule H2 is particularly volatile: tanks, media lines, fittings, regulators are difficult to seal. Castings are conditionally to be used. A standard problem is the so-called hydrogen embrittlement. In general, only high-strength materials are affected. H2 is also demanding in terms of safety. H2 is extremely flammable. Hydrogen devices must therefore meet higher requirement than natural gas devices. That is why Gega uses a selection of components that meet all of these requirements.

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