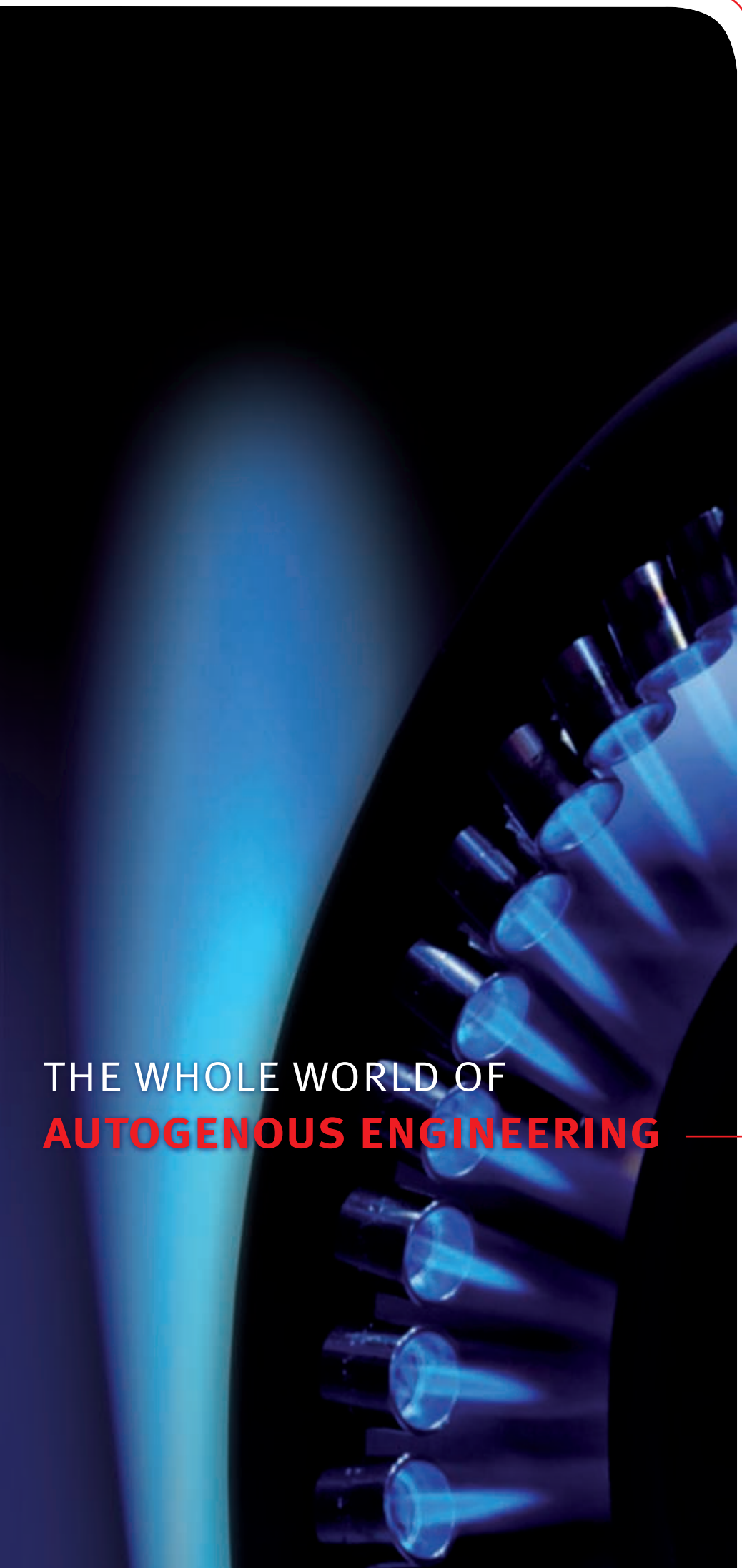
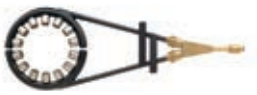
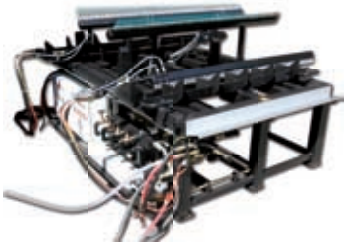
IBEDA®
CERTIFIED SAFETY. worldwide



THE WHOLE WORLD OF
AUTOGENOUS ENGINEERING





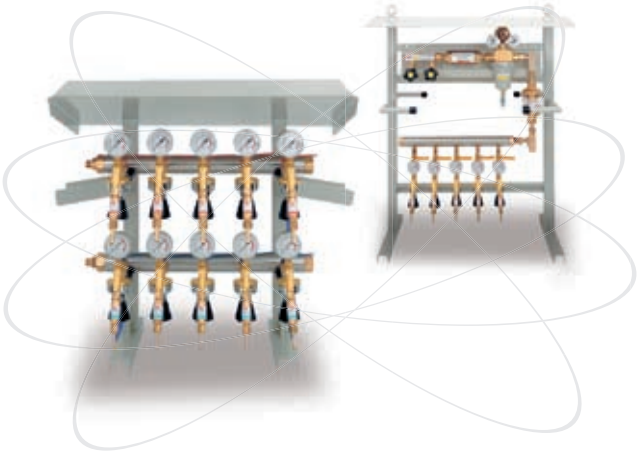
BENEFITS WITH SYNERGIES – SECURE THE ADVANTAGES!

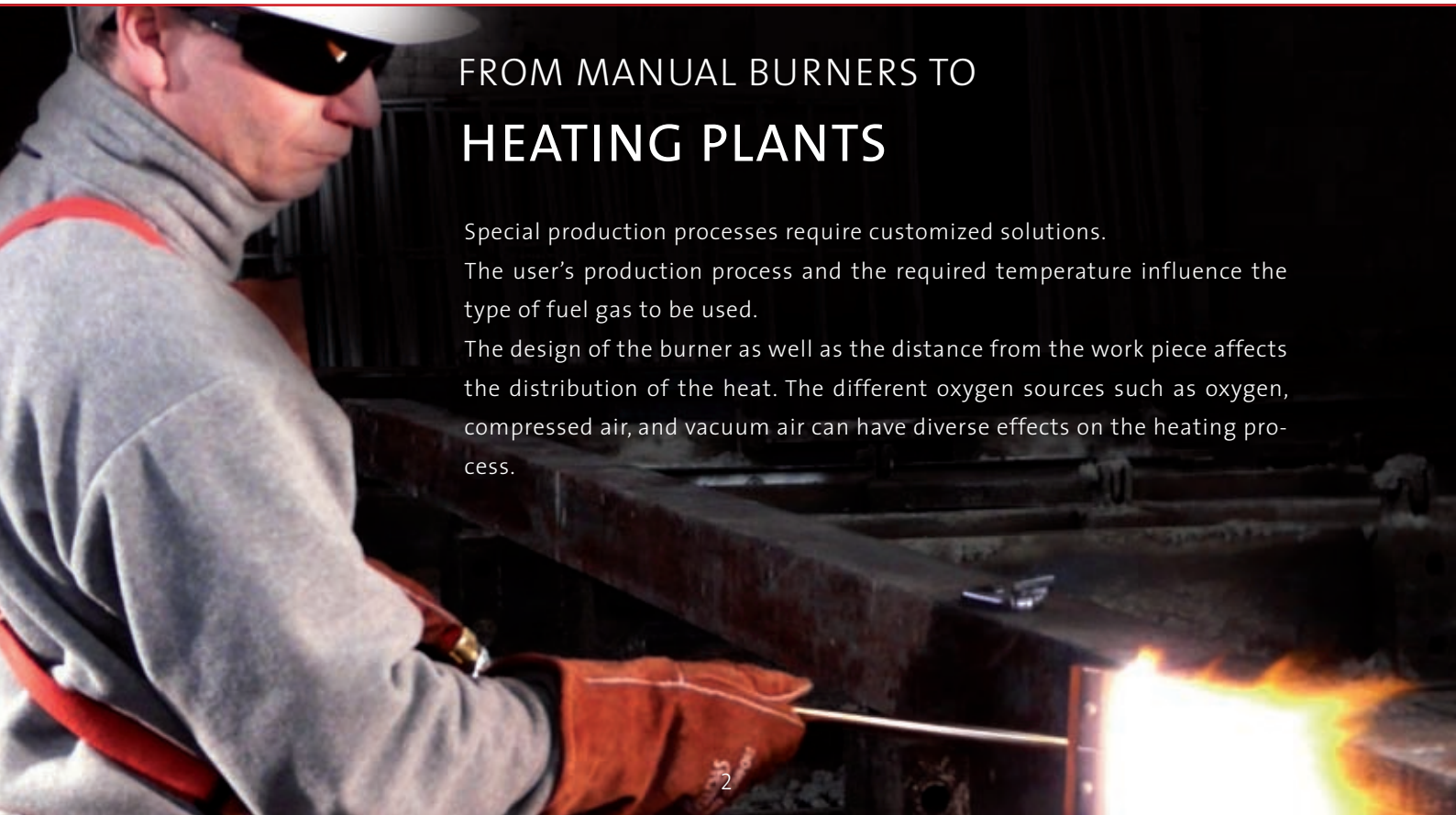
Effective synergies and new possibilities abound from the combination of the IBEDA product lines of Autogenous Engineering, Flame Spraying, Gas Manifold Systems and Gas Safety Engineering.
That means: flexible, affordable, certified and safe products and production solutions from a single supplier as well as conservation of affordable natural resources.

We will never compromise on safety. We are committed to the ongoing development of new products as well as continuing to improve our existing products. We can provide well-engineered and reliable safety solutions for every industrial application.

AUTOGENOUS ENGINEERING

GAS MANIFOLD SYSTEMS





FROM MANUAL BURNERS TO HEATING PLANTS

Special production processes require customized solutions.
The user's production process and the required temperature influence the type of fuel gas to be used.
The design of the burner as well as the distance from the work piece affects the distribution of the heat. The different oxygen sources such as oxygen, compressed air, and vacuum air can have diverse effects on the heating process.

CERTIFIED SAFETY - WORLDWIDE!

IBEDA®
CERTIFIED SAFETY. Worldwide

GAS SAFETY ENGINEERING

FLAME SPRAYING

AUTOGENOUS ENGINEERING - FOR ALL INDUSTRIES!

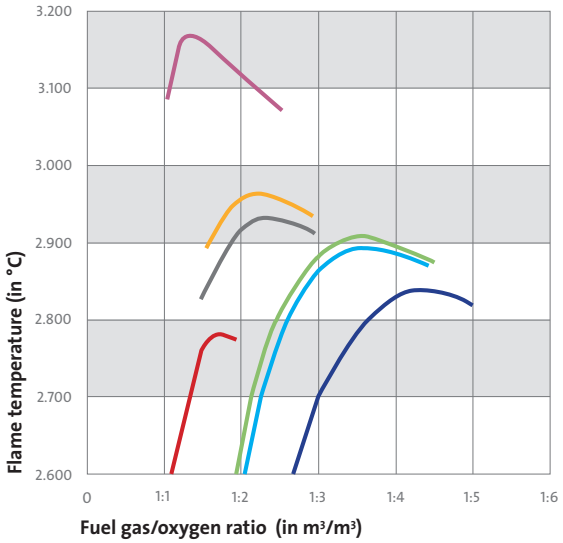
FUEL GAS PROPERTIES

AT A GLANCE

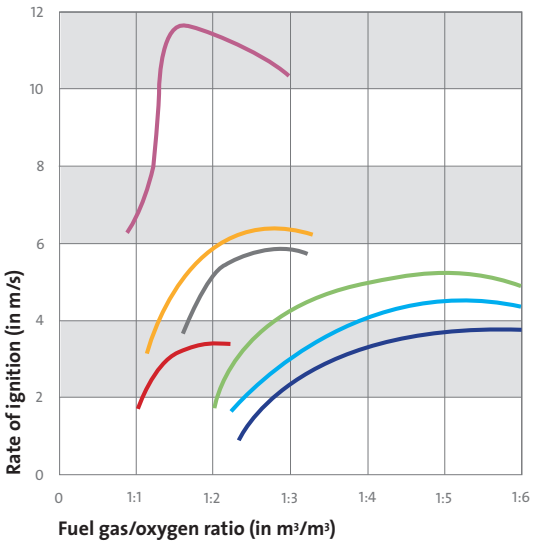
A high temperature fuel gas/oxygen flame produces a quick increase of temperature on the surface of the work piece.

A fuel gas/air flame works with a lower temperature (due to the amount of nitrogen in the air). The mixture is easily adjustable at all flame stages. The heating effect on the surface work piece is lowered and thoroughly heating the work piece can be achieved with both fuel gas/air burners and fuel gas/vacuum air burners.

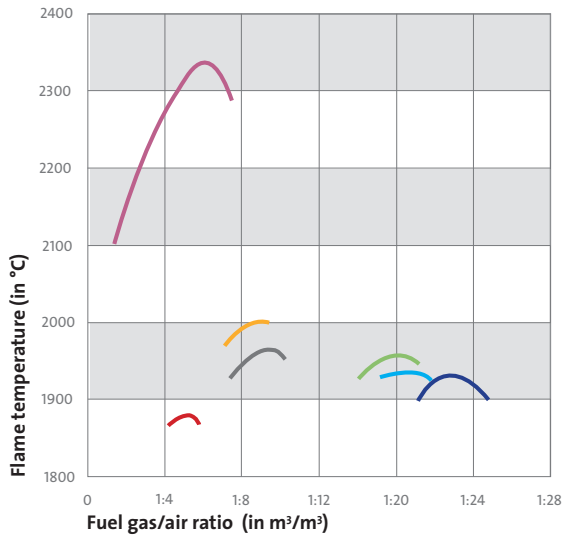
FLAME TEMPERATURE FUEL GAS/OXYGEN



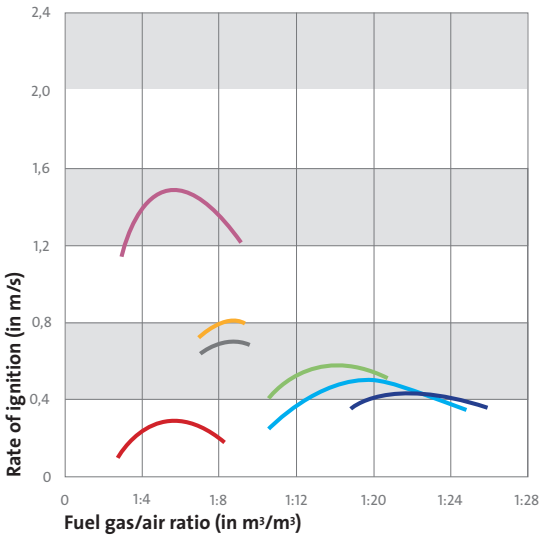
RATE OF FLAME IGNITION FUEL GAS/OXYGEN



FLAME TEMPERATURE FUEL GAS/AIR



RATE OF FLAME IGNITION FUEL GAS/AIR



Acetylene · Ethene · Methylacetylene mixture · Ethene mixture · Methane · Propene · Propane

CONVERSION TABLE - HEATING VALUE PER m³

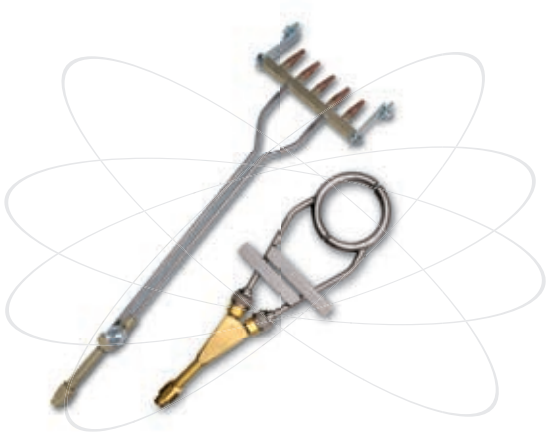
		Btu/m³	MJ/m³
Acetylene	=	53.451	56,493
Propane	=	88.335	93,207
Methane	=	34.000	35,883
Hydrogen	=	10.218	10,783
Propene	=	82.995	87,575
Ethene	=	56.349	59,457

Example:		
Model	=	RB-PMY-300
Consumption	=	2,0 m³/h Propane
	=	3,6 m³/h Methane
Propane	=	88.335 x 2.0 = **176.670 BTU**
Methane	=	35,883 x 3,6 = **129,179 MJ**

MANUAL AND AUTOMATIC

SPECIAL BURNERS - FOR ALL APPLICATIONS

IBEDA offers manual and automatic special burners including all required equipment.



MANUAL CUSTOM BURNERS

Manual custom burners provide customized nozzles and burner capacities which are suitable for the individual application.
They are equipped with standard handles or shafts and can be supplied with an additional water cooling system for special requirements.

AUTOMATIC SPECIAL BURNERS

Machine guided custom burners are used in both semi-automatic and fully-automatic processes. These customized burners are also designed to meet the individual heating demands and necessary capacities of each system.

Machine guided custom burners usually operate without direct monitoring. Therefore, special attention is focused on the control elements and the safety features.

AUTOMATIC IGNITION AND FLAME CONTROL

The automatic ignition and flame control units for custom burner are supplied with electrodes for direct ignition or with torches for indirect ignition. The flame is controlled with an electrode or a UV-probe. Optional features include: water cooling, temperature control and additional control equipment.

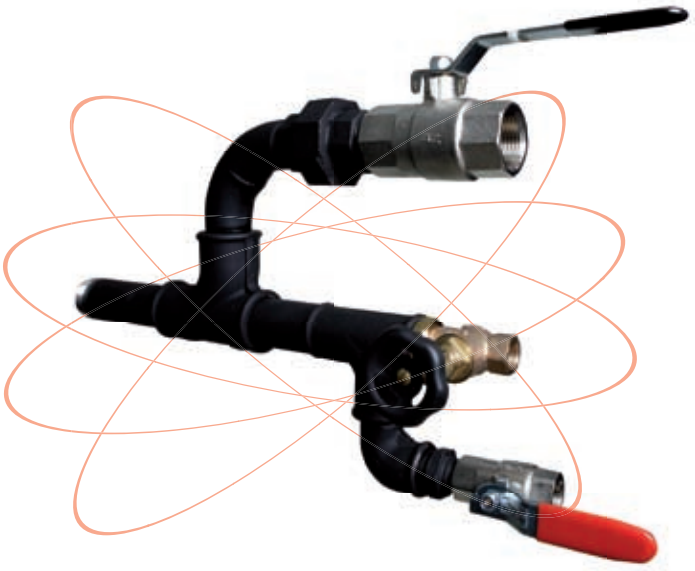
SUSTAINABLE ENERGY SAVINGS

WITH THE IBEDA *ECO-VEN*

In the field of heating engineering, there is a wide range of applications for fuel gas/compressed air burners, like heating path for the glass industry, heating units at cutting machines, platen drier at steel plants, heating burners for die forging or heating of welding seams on large diameter pipes. For the combustion of fuel gas, the compressed air requirement is typically 4 to 15 times the requirement of fuel gas (depending on the gas type).

The production of compressed air is energy intensive and expensive (about 0,01 €/m³).
This is the main reason for the development of the new IBEDA Eco-Ven. The Eco-Ven has been designed for both manual and machine guided burner applications. The new injector Eco-Ven provides a very high savings potential. 75% of the required combustion air is taken from the ambinent atmosphere and only the remaining 25% of the combustion air is required from compressed air.

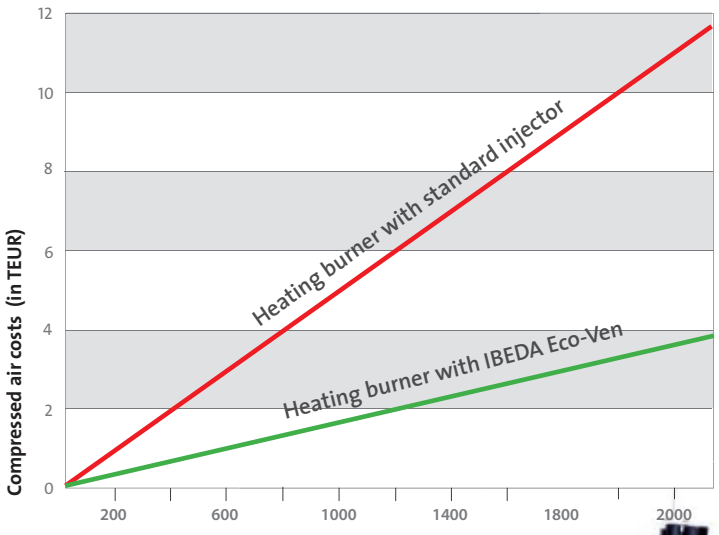
Save 75% of your compressed air expenses. This means cost savings along with conservation of natural resources!



Eco-Ven with manual operation

Eco-Ven with automatic control

USAGE COSTS FOR COMPRESSED AIR (HEATING PLANTS)



IMMEDIATE PAYBACK!

The Eco-Ven can also be easily integrated into existing large plants. Because of the immediate cost-saving you will be able to amortize the investment within a very short period of time.

SPRAYING AND SINTERING

FUSION BONDING OF FLAME SPRAY COATINGS

Spraying the surface of the work piece ...

... and thermal finishing

During the spraying operation, powder particles pass into and through the fuel gas/oxygen flame and onto the surface of the work piece.

For heavy duty coatings, a reliable bonding to the parent metal is required. This is achieved by way of a thermal treatment after coating with self-fluxing alloys.

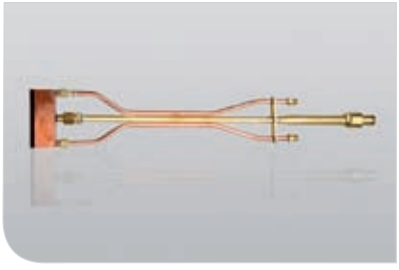
During the sintering process, a diffusion bonding is produced between the parental metal and the coating, which is similar with soldering processes. Normally, manual custom torches are used for smaller work pieces. Automatic machine guided water cooled pre-heating burners and sinter burners are used for larger work pieces.

SINTER BURNER FOR USE WITH FUEL GAS/OXYGEN

w = water cooled

		Consumption m^3/h					
Type	Injector	Acetylene	Hydrogen	Propane	Natural Gas	Oxygen p=2,0-4,0 bar	Part No.
AH/O-11	22 mm	8,50	22,00	-	-	7,90-9,40	0414-1340
AH/O-12	22 mm	12,00	30,00	-	-	10,80-13,20	0414-1341
AH/O-w-11	22 mm	8,50	22,00	-	-	7,90-9,40	0414-0927
AH/O-w-12	22 mm	12,00	30,00	-	-	10,80-13,20	0414-0928

HEATING BURNER FOR USE WITH FUEL GAS/OXYGEN



w = water cooled

		Consumption m^3/h					
Type	Injector	Acetylene	Hydrogen	Propane	Natural Gas	Oxygen p=2,0-4,0 bar	Part No.
RT-AH/O-100-5	22 mm	10,00	15,00	-	-	5,40-11,00	0382-1491
RT-AH/O-150-5	22 mm	14,50	20,80	-	-	7,50-16,00	0382-1492
RT-AH/O-w-100-5	22 mm	10,00	15,00	-	-	5,40-11,00	0382-1493
RT-AH/O-w-150-5	22 mm	14,50	20,80	-	-	7,50-16,00	0382-1494

THE PROCESSES OF HEATING ENGINEERING

FLAME BRAZING

Use of the flame brazing process allows for bonding of various materials. This is achieved by using a melted additive - the solder metal. The parent metal is not melted during this process.

HEATING BURNER FOR USE WITH FUEL GAS/COMPRESSED AIR

	Consumption m^3/h						
Type	Injector	Acetylene	Hydrogen	Propane	Natural Gas	Compressed air p = 2,5 bar	Part No.
PM/DL24/3	17 mm	-	-	0,04	0,07	0,56-0,76	0414-0938
PM/DL25/5	17 mm	-	-	0,12	0,30	2,28-2,40	0414-0939
PM/DLK40/10	17 mm	-	-	0,58	1,56	11,00-12,50	0414-0945
PM/DLK50/16	22 mm	-	-	1,90	3,50	28,00-36,00	0414-0949
A/DL/40/5	17 mm	1,00	-	-	-	5,00	0414-1430
A/DL/40/7	17mm	1,60	-	-	-	8,00	0414-1431
A/DL/40/9	22 mm	2,00	-	-	-	10,00	0414-1432

HEATING BURNER FOR USE WITH FUEL GAS/OXYGEN

	Consumption m^3/h						
Type	Injector	Acetylene	Hydrogen	Propane	Natural Gas	Oxygen p = 2,5 bar	Part No.
PM/O-6	17 mm	-	-	0,40	0,90	1,40-1,50	0414-0919
PM/O-8	17 mm	-	-	1,10	2,50	4,00-4,10	0414-0920
PM/O-10	17 mm	-	-	3,00	7,50	11,2-12,00	0414-0921
AH/O-7	17 mm	1,70	4,50	-	-	1,60-1,90	0414-0912
AH/O-8	17 mm	2,50	7,00	-	-	2,50-2,80	0414-0913
AH/O-9	17 mm	4,00	10,00	-	-	3,60-4,40	0414-0914

RIBBON BURNER FOR USE WITH FUEL GAS/COMPRESSED AIR

	Consumption m^3/h						
Type	Injector	Acetylene	Hydrogen	Propane	Natural Gas	Compressed air p = 2,5 bar	Part No.
LAB-PM/DL-200	17 mm	-	-	0,40	0,90	5,00-6,80	0414-0966
LAB-PM/DL-400	17 mm	-	-	1,10	2,50	9,50-13,10	0414-0967
LAB-AH/DL-200	17 mm	0,20	0,50	-	-	0,90-1,10	0414-1426
LAB-AH/DL-400	17 mm	0,30	0,78	-	-	1,40-1,70	0414-1427

RIBBON BURNER FOR USE WITH FUEL GAS/OXYGEN

	Consumption m^3/h						
Type	Injector	Acetylene	Hydrogen	Propane	Natural Gas	Oxygen p = 2,5 bar	Part No.
LAB-PM/O-200	17 mm	-	-	1,30	1,70	2,75-4,95	0414-1428
LAB-PM/O-400	17 mm	-	-	2,50	3,30	5,25-9,45	0414-1429
LAB-AH/O-200	17 mm	0,95	0,85	-	-	0,30-1,10	0414-0961
LAB-AH/O-400	17 mm	1,85	1,70	-	-	0,60-2,00	0414-0962

FLAME CLEANING

Flame cleaning is used during building restoration and repair, especially on concrete floors and walls – natural surfaces, like granite, develop a silk-like surface.
The steel industry uses flame cleaning for rust removal on large parts. It is an extraordinary alternative to other cleaning methods.

FLAME CLEANING BURNER FOR USE WITH FUEL GAS/OXYGEN

		Consumption m^3/h					
Type	Injector	Acetylene	Hydrogen	Propane	Natural Gas	Oxygen p = 2,5 bar	Part No.
RT-PM50	17 mm	-	-	0,90	2,20	3,40-3,50	0414-0956
RT-PM100	17 mm	-	-	1,80	4,80	6,80-7,70	0414-0957
RT-PM150	22 mm	-	-	3,05	7,00	11,20-11,40	0414-0958
RT-PM200	22 mm	-	-	4,25	10,20	15,90-16,30	0414-0959
RT-PM250	22 mm	-	-	4,45	11,00	16,70-17,60	0414-0960
RT-AH50	17 mm	1,10	2,80	-	-	1,00-1,20	0414-0951
RT-AH100	17 mm	2,30	6,10	-	-	2,20-2,50	0414-0952
RT-AH150	17 mm	3,50	9,20	-	-	3,30-3,90	0414-0953
RT-AH200	22 mm	4,60	11,90	-	-	4,30-5,10	0414-0954
RT-AH250	22 mm	5,70	15,00	-	-	5,40-6,30	0414-0955

FLAME STRAIGHTENING

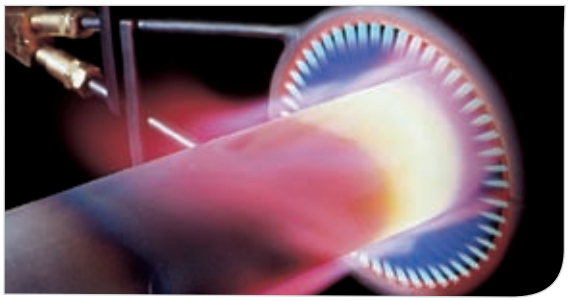
The flame straightening process can be used to eliminate defaults and achieve the required shape of parts through targeted heating.

FLAME STRAIGHTENING BURNER FOR USE WITH FUEL GAS / OXYGEN

		Consumption m^3/h					
Type	Injector	Acetylene	Hydrogen	Propane	Natural Gas	Oxygen p=2,5 bar	Part No.
A/O-3/2-Gr.3	17 mm	0,90	-	-	-	1,29	0417-1573
A/O-3/2-Gr.4	17 mm	1,40	-	-	-	2,05	0417-1540
A/O-5/3-Gr.3	17 mm	1,50	-	-	-	2,15	0417-1574
A/O-5/3-Gr.4	17 mm	2,40	-	-	-	3,41	0417-1766

FLAME HEATING

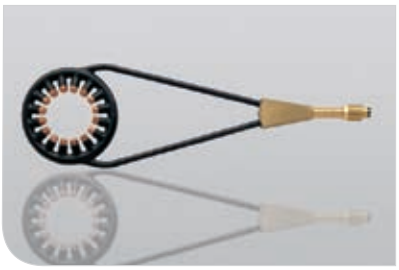
Flame heating is a process for localized heating prior to forming of pre-manufactured parts, and for pre and post-heating during welding and cutting.



RING BURNER FOR USE WITH FUEL GAS/COMPRESSED AIR

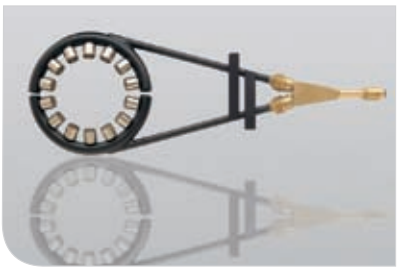
		Consumption m³/h					
Type	Injector	Acetylene	Hydrogen	Propane	Natural Gas	Compressed air p=2,0-4,0 bar	Part No.
RB-PM/DL-50	17 mm	-	-	0,60	1,12	8,96 - 11,40	2201-0050
RB-PM/DL-100	17 mm	-	-	1,00	1,87	14,96 - 19,00	2201-0100
RB-PM/DL-200	17 mm	-	-	1,50	2,80	22,40 - 28,50	2201-0200
RB-PM/DL-300	22 mm	-	-	2,00	3,75	30,00 - 38,00	2201-0300
RB-AH/DL-50	17 mm	0,30	0,80	-	-	1,44 - 1,65	2271-0050
RB-AH/DL-100	17 mm	0,40	1,00	-	-	1,80 - 2,20	2271-0100
RB-AH/DL-200	17 mm	0,50	1,30	-	-	2,35 - 2,75	2271-0200
RB-AH/DL-300	22 mm	0,60	1,50	-	-	2,70 - 3,30	2271-0300

RING BURNER FOR USE WITH FUEL GAS/OXYGEN



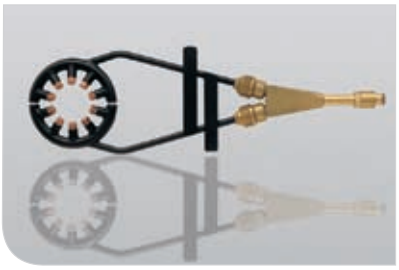
		Consumption m³/h					
Type	Injector	Acetylene	Hydrogen	Propane	Natural Gas	Oxygen p=2,5 bar	Part No.
RB-PM/O-50	17 mm	-	-	0,50	0,90	1,44 - 1,88	2211-0050
RB-PM/O-100	17 mm	-	-	0,80	1,40	2,24 - 3,00	2211-0100
RB-PM/O-200	17 mm	-	-	1,40	2,50	4,00 - 5,25	2211-0200
RB-PM/O-300	17 mm	-	-	2,00	3,60	5,76 - 7,50	2211-0300
RB-AH/O-50	17 mm	0,80	2,20	-	-	0,79 - 0,88	2251-0050
RB-AH/O-100	17 mm	1,30	3,60	-	-	1,43 - 1,30	2251-0100
RB-AH/O-200	17 mm	2,20	6,00	-	-	2,16 - 2,42	2251-0200
RB-AH/O-300	17 mm	3,00	8,30	-	-	2,99 - 3,30	2251-0300

SWIVEL RING BURNER FOR USE WITH FUEL GAS/COMPRESSED AIR



		Consumption m³/h					
Type	Injector	Acetylene	Hydrogen	Propane	Natural Gas	Compressed air p=2,5 bar	Part No.
RSB-PM/DL-50	17 mm	-	-	0,60	1,12	8,96-11,4	2401-0050
RSB-PM/DL-100	17 mm	-	-	1,00	1,87	14,96-19,00	2401-0100
RSB-PM/DL-200	17 mm	-	-	1,50	2,80	22,40-28,50	2401-0200
RSB-PM/DL-300	22 mm	-	-	2,00	3,75	30,00-38,00	2401-0300
RSB-AH/DL-50	17 mm	0,30	-	-	-	1,44-1,65	2471-0050
RSB-AH/DL-100	17 mm	0,40	-	-	-	1,80-2,20	2471-0100
RSB-AH/DL-200	17 mm	0,50	-	-	-	2,35-2,75	2471-0200
RSB-AH/DL-300	22 mm	0,60	-	-	-	2,70-3,30	2471-0300

SWIVEL RING BURNER FOR USE WITH FUEL GAS/OXYGEN

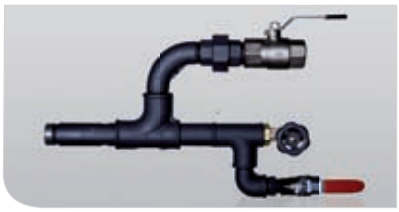


		Consumption m³/h					
Type	Injector	Acetylene	Hydrogen	Propane	Natural Gas	Oxygen p=2,5 bar	Part No.
RSB-PM/O-50	17 mm	-	-	0,50	0,90	1,44-1,88	2411-0050
RSB-PM/O-100	17 mm	-	-	0,80	1,40	2,24-3,00	2411-0100
RSB-PM/O-200	17 mm	-	-	1,40	2,50	4,00-5,25	2411-0200
RSB-PM/O-300	17 mm	-	-	2,00	3,60	5,76-7,50	2411-0300
RSB-AH/O-50	17 mm	0,80	2,20	-	-	0,79-0,88	2451-0050
RSB-AH/O-100	17 mm	1,30	3,60	-	-	1,43-1,30	2451-0100
RSB-AH/O-200	17 mm	2,20	6,00	-	-	2,16-2,42	2451-0200
RSB-AH/O-300	17 mm	3,00	8,30	-	-	2,99-3,30	2451-0300

HANDLES AND SHAFTS

Type	Injector	Fuel Gas	Compressed air	Vacuum air consumption	Compressed air consumption	Part No.
			Connections			
Shaft S-17	17 mm	G3/8LH	G1/4RH	-	30 m³/h	0413-0310
Handle G-17	17 mm	G3/8LH	G1/4RH	-	30 m³/h	0408-0167
Shaft S-22	22 mm	G1/2LH	G3/8RH	-	50 m³/h	0413-0311
Handle G-22	22 mm	G1/2LH	G3/8RH	-	50 m³/h	0403-0201
Shaft S-H20	26 mm	G1/2LH	G3/8RH	-	120 m³/h	0413-0337
Handle G-HA20	26 mm	G3/4LH	G1/2RH	-	120 m³/h	0413-0282
Injector G-Ven-15	G 3/4-M	G1/2-F	G3/8-F	-	180 m³/h	0413-0234
Injector G-Ven-20	G 3/4-M	G 3/4-F	G1/2-F	-	180 m³/h	0413-0235
Injector G-Ven-25	G 1-M	G 1-F	G 3/4-F	-	600 m³/h	0413-0230
Vacuum air injector Eco-Ven-10	G 1/2-M	G 3/8-F	G1/4-F	60 m³/h	20 m³/h	0413-0342
Vacuum air injector Eco-Ven-15	G 1-M	G 1/2-F	G1/4-F	150 m³/h	50 m³/h	0413-0339
Vacuum air injector Eco-Ven-20	G 1 1/4-M	G 3/4-F	G3/8-F	300 m³/h	100 m³/h	0413-0341
Vacuum air injector Eco-Ven-25	G 1 1/2-M	G 1-F	G 1/2-F	450 m³/h	150 m³/h	0413-0333

ECO-VEN



HEATING BURNER FOR USE WITH FUEL GAS/OXYGEN

Type	Injector	Acetylene	Hydrogen	Propane	Natural Gas	Oxygen p=2,0-4,0 bar	Part No.
			Consumption m³/h				
PM/O-10	22 mm	-	-	3,00	7,50	11,25 - 12,00	0414-0921
PM/O-12	22 mm	-	-	4,30	9,00	14,40 - 16,13	0414-0922
PM/O-14	22 mm	-	-	5,20	12,00	19,20 - 19,50	0414-0923
PM/O-16	22 mm	-	-	6,50	15,00	24,00 - 24,40	0414-0924
AH/O-10	22 mm	6,00	12,50	-	-	4,50 - 6,60	0414-1339
AH/O-11	22 mm	8,50	22,00	-	-	7,90 - 9,35	0414-1340
AH/O-12	22 mm	12,00	30,00	-	-	10,80 - 13,20	0414-1341

HEATING BURNER FOR USE WITH FUEL GAS/OXYGEN

w = water cooled

Type	Injector	Acetylene	Hydrogen	Propane	Natural Gas	Oxygen p=2,0-4,0 bar	Part No.
			Consumption m³/h				
PM/O-w-12	22 mm	-	-	4,30	9,00	14,40 - 16,10	0414-0929
PM/O-w-14	22 mm	-	-	5,20	12,00	19,20 - 19,50	0414-0930
PM/O-w-16	22 mm	-	-	6,50	15,00	24,00 - 24,40	0414-0931
AH/O-w-10	22 mm	6,00	12,50	-	-	4,50 - 6,60	0414-0926
AH/O-w-11	22 mm	8,50	22,00	-	-	7,90 - 9,35	0414-0927
AH/O-w-12	22 mm	12,00	30,00	-	-	10,80 - 13,20	0414-0928

HEATING BURNER FOR USE WITH FUEL GAS/COMPRESSED AIR-VACUUM AIR

Type	Injector	Acetylene	Hydrogen	Propane	Natural Gas	Oxygen p = 2,5 bar	Part No.
			Consumption m³/h				
WB-PM/DL50/16	Eco-Ven-10	-	-	1,90	3,50	5,20 - 8,50	0414-1437
WB-PM/DL70/20	Eco-Ven-10	-	-	4,00	7,50	11,25 - 18,75	0414-1438
WB-PM/DL100/30	Eco-Ven-15	-	-	10,50	19,00	28,00 - 47,00	0414-1439
WB-PM/SL50/16	SL 3/4	-	-	1,30	2,50	-	0414-0976
WB-PM/SL70/20	SL 1	-	-	2,80	5,30	-	0414-0977
WB-PM/SL100/30	SL 1 1/2	-	-	7,50	13,50	-	0414-0978

CUSTOM HEATING SOLUTIONS

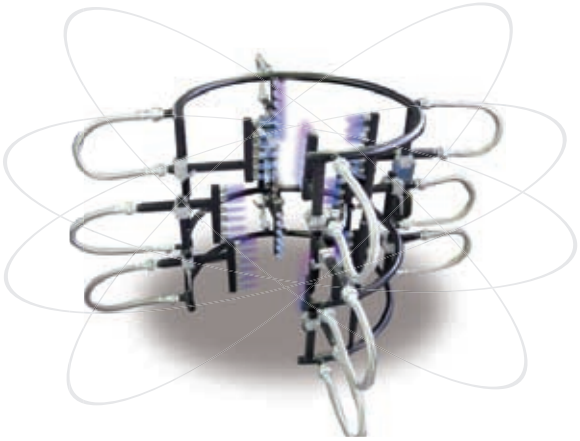
FOR ALL REQUIREMENTS - FOR ALL INDUSTRIES

No matter what heating technology requirements you have – we'll focus on a customized solution so you can focus on your production.

Do you have new heating requirements or a current process in need of optimization? Let us assist you!

We'll provide you with detailed advice, analyze the issues, and develop a customized proposal.

You will benefit from our extensive experience with heating technologies.



IBEDA SPECIAL BURNER EXAMPLES

Propane - compressed air burner for drying of longitudinal welds on large diameter pipes with automatic ignition control and flame control.

Gas type: Propane/compressed air

Capacity: 75 kW

Fuel gas pressure: 0,5 bar

Compressed air pressure: 5 bar

Heating burner for copper cooler plates.

Gas type: Acetylene/Oxygen with water cooling

Capacity: 900 kW

Fuel gas pressure: 1,2 bar

Oxygen pressure: 2,5 bar

Water: 3,0 bar

Heating burner for welding and fused quartz forming.

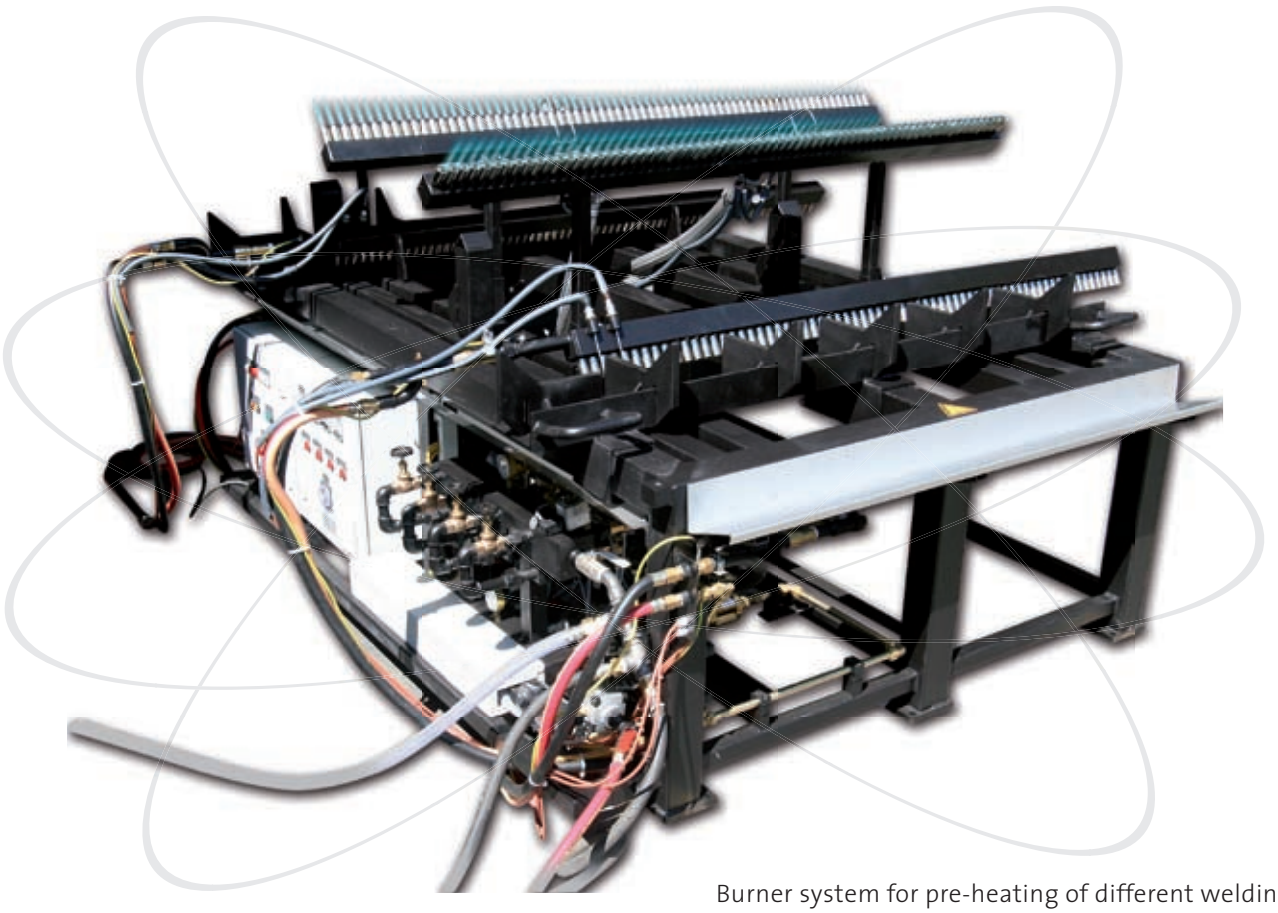
Gas type: Hydrogen/Oxygen

Capacity: 300 kW

Fuel gas pressure: 1,5 bar

Oxygen pressure: 4,0 bar

Water: 3,0 bar



Burner system for pre-heating of different welding parts.
The component support plate and the heating burner are flexibly adjustable to the sizes of the different construction parts.
The components are heated with Propane-Compressed air at 250°C.

Heating burner for drying and pre-heating of large pipes at welding speed.

Gas type: Acetylene/compressed air with water cooling

Capacity: 200 kW

Fuel gas pressure: 1,2 bar

Compressed air pressure: 2,5 bar

Water: 3,0 bar

Trial burner for heating of rails

Gas type: Acetylene/compressed air with water cooling

Capacity: 250 kW

Fuel gas pressure: 1,2 bar

Compressed air pressure: 2,5 bar

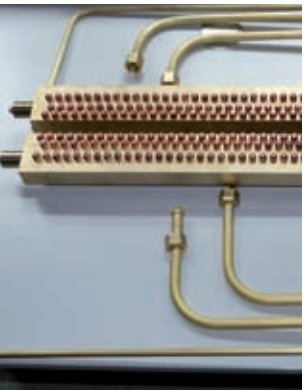
Water: 3,0 bar

Soldering burner and heating burner for different applications.

Gas type: Propane/natural gas with atmospheric air

Capacity: according to design

Fuel gas pressure: 0,5 to 1,5 bar



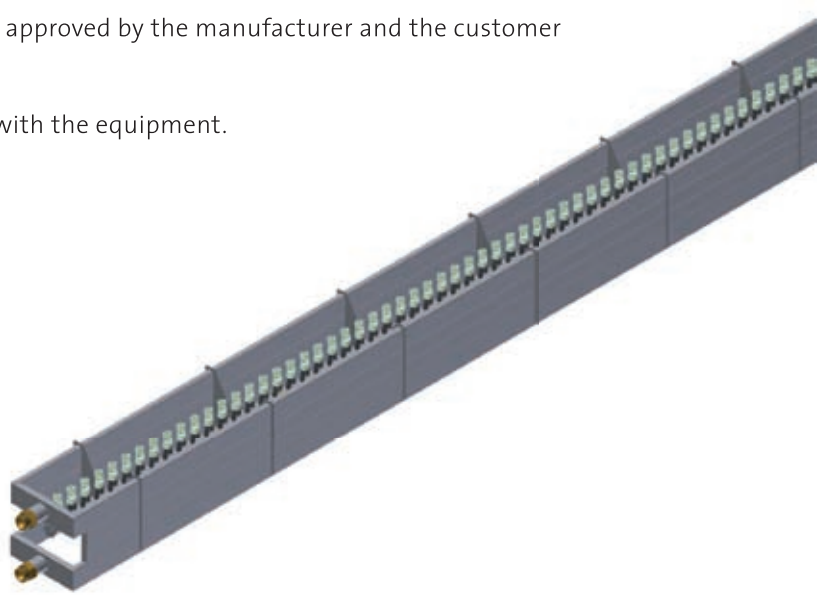


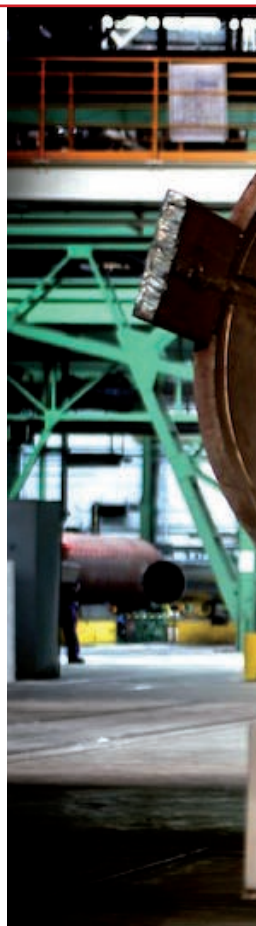

DESIGN – MANUFACTURING – INSTALLATION – SUPPORT

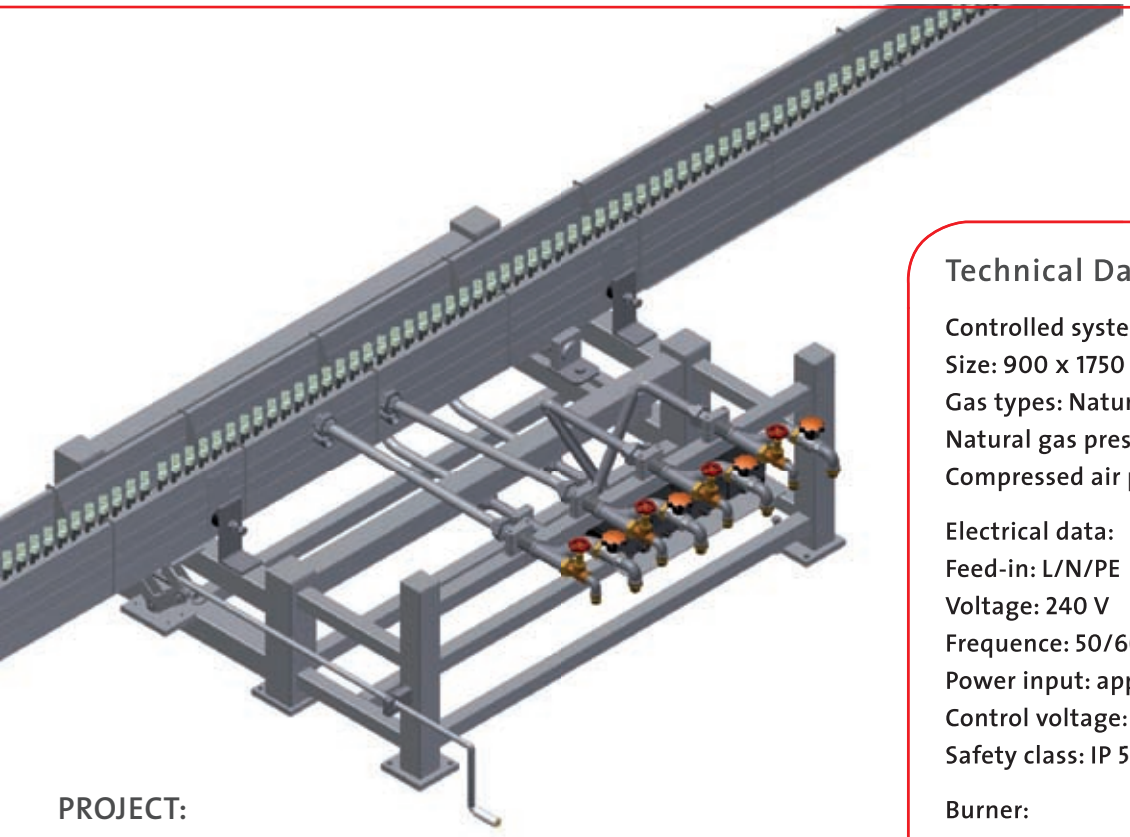
EVERYTHING FROM ONE SOURCE

IBEDA heating systems are designed in complete cooperation with the customer.

- From the inquiry, an offer is submitted based on the customer's specifications and requirements.
- Upon receipt of the customer's order, the special burner is designed/constructed and then approved by the customer.
- The operational manual is created.
- The burner system is completely assembled and approved by the manufacturer and the customer before delivery.
- Complete technical documentation is provided with the equipment.
- IBEDA offers support even after installation.







PROJECT:

Seam heating on longitudinally welded large pipes

The IBEDA pre-heating plant is designed for the heating of pipes with diameters of 406 mm - 2540 mm and lengths of 3500 mm - 12200 mm at a wall-thickness of 6 mm - 76mm.

The heat is supplied by four line burners which are arranged in a series on a support shaft.

Gas types: Natural gas and compressed air

Technical Data:

Controlled system:
Size: 900 x 1750 x 375 (WxHxD)
Gas types: Natural gas / Compressed air
Natural gas pressure: min 200 mbar - max 400 mbar
Compressed air pressure: min 5 bar - max 10 bar

Electrical data:
Feed-in: L/N/PE
Voltage: 240 V
Frequence: 50/60 Hz
Power input: approx 800 VA
Control voltage: 230 VAC
Safety class: IP 54

Burner:
Type: Line burner - free-burning application
L = 14000 (4 x 3500) with exchangeable nozzles arranged in 2 lines (inclined by 10° to both sides)
Methane consumption: 4x approx 9,5 Nm^3/h
Compressed air consumption: 4x approx 95 Nm^3/h

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