

SIAD's Combustion Technologies

We design and build water cooled as well as non water cooled oxy-fuel burners, for any specific range of thermal capacity and type of combustibles.

Our burners are studied to accomplish melting process requests and we adapt the flame shape and its length to the specific furnace.

To date we have installed our oxy-fuel burners for:

- gold and silver scraps melting,
- recovering of precious metals from computer scraps,
- copper and its alloys melting,
- aluminum recovering from scraps and dross,
- lead recovering from batteries scraps,
- cast iron melting,
- tin dross melting,
- nickel and its alloys melting,
- glass melting,
- frits melting,
- pigments production.

Moreover we have implemented the combustion efficiency of air burners, applied in shaft furnaces, inserting our oxy-fuel burners into the air burners, obtaining a more stable and hot flame and controlling the combustion kinetics.

We don't supply oxy-fuel burners, but its application technology!



Oxy-fuel burners in rotary furnaces

The technical and economic requirements for greater thermal efficiency in rotary melting furnaces, to modernize their industrial employment, has directed the technical research to the study of combustion in pure oxygen.

As a result, SIAD has developed a range of oxy-fuel burners which has been successfully applied to melting furnaces for the recovery or melting of metals. The substitution of conventional air burners by oxy-fuel burners has had a positive effect on the overall results of melting plants and the advantages obtained can be resumed as follows:

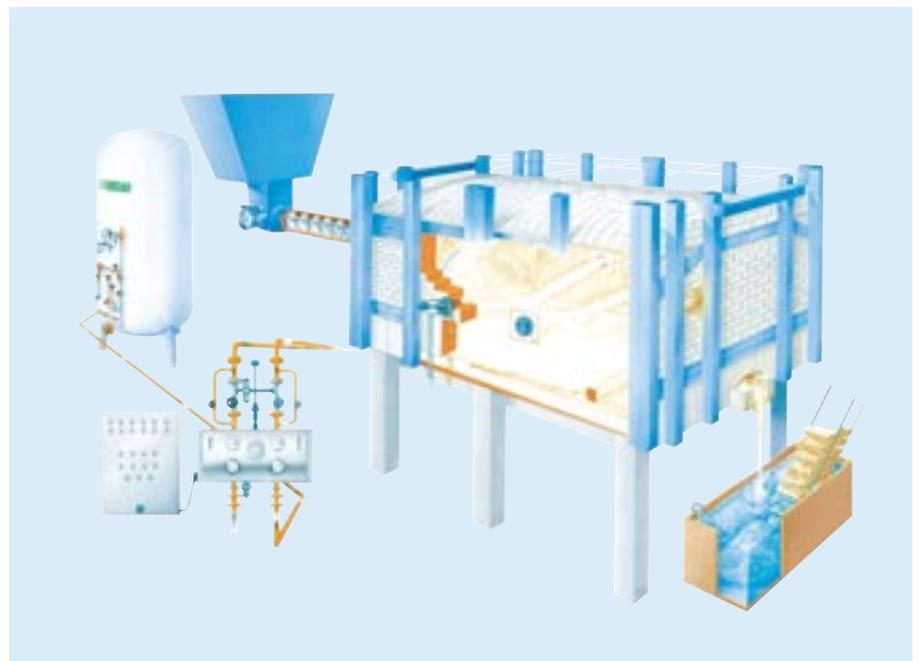
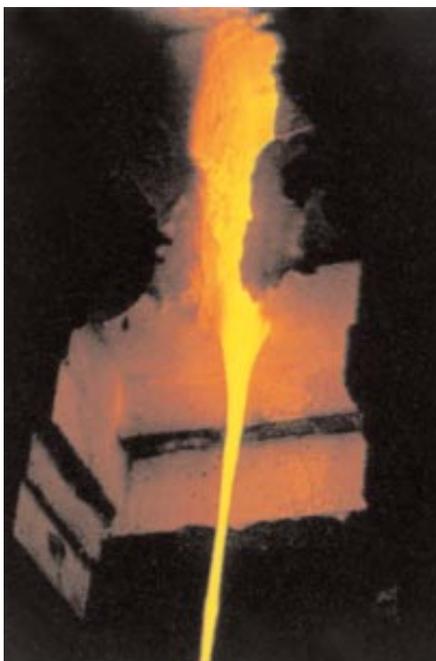
- reduced melting costs,
- reduced melting time,
- reduced off-gases volume,
- more operating flexibility.



Oxy-fuel burners in reverberatory furnaces

Oxy-fuel burners have found many applications in the glass and frit industries. In particular, in frit production, they have brought an important quality improvement in the design and construction of melting furnaces, as well as reductions in cost and off-gas volumes.

In glass and aluminum melting furnaces, oxy-fuel burners are used for assisted melting in transferring high quality energy to critical points in the furnace thus increasing specific production and giving new life to the furnace itself.



SIAD IN EUROPE

SIAD S.p.A.

Headquarter

Via S. Bernardino, 92
I-24126 BERGAMO
Tel. +39 035 328111
Fax +39 035 315486
www.siad.com
siad@siad.com



SAP PUK 032 05/03

AUSTRIA

SIAD VTG
Vertrieb Technischer Gase GmbH

Head office

Trimmelkam 111
A-5120 ST. PANTALEON
Tel. +43 (6277) 7447-0
Fax +43 (6277) 7401
siad_vtg@praxair.com

Regional office

Hofherr-Schranz-Gasse, 4
A-1210 WIEN
Tel. +43 (1) 2719200
Fax +43 (1) 2719200-10

BULGARIA

SIAD Bulgaria ood

Head office

4, Amsterdam str.
P. O. Box 28
BG-1528 SOFIA
Tel. +359 (2) 9785636
Fax +359 (2) 9789787
siad@siad.bg

CROATIA

MONTKEMIJA d.o.o.

Head office

Senjska cesta b.b.
HR-51222 BAKAR (RIJEKA)
Tel. +385 (51) 761466
Fax +385 (51) 761175
montkemija@montkemija.hr

CZECH REPUBLIC

SIAD Czech spol. s r.o.

Head office

č.p. 193
CZ-435 22 BRAŇANY U MOSTU
Tel. +420 476765000
Fax +420 476129286
siad@siad.cz

Regional office

Doubravínova 25
CZ-163 00 PRAHA 6
Tel. +420 235301241
Fax +420 235323828

HUNGARY

SIAD Hungary Kft

Head office

H-3527 MISKOLC, Zsigmondy u. 38
Tel. +36 (46) 412417
Fax +36 (46) 411681
siad@siad.hu

ROMANIA

SIAD Romania s.r.l.

Head office

Bd. Carol I n° 62
Ap. 17 - Sect. 2
RO-70334 BUCURESTI
Tel. +40 (21) 3103658
Fax +40 (21) 3149806
siad@siad.ro

SLOVAKIA

SIAD Slovakia spol. s r.o.

Head office

Rožňavská č. 17
SK-831 04 BRATISLAVA
Tel. +421 (2) 44255969
Fax +421 (2) 44460348
siad_sg@siadsg.sk

SLOVENIA

ISTRABENZ PLINI

Plini in plinske tehnologije, d.o.o.

Head office

Sermin 8/a
SLO-6000 KOPER
Tel. +386 (5) 6634600
Fax +386 (5) 6634699
Istrabenzplini@s-net.net

