



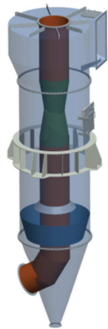
A TEC Production & Services GmbH

We are part of A TEC Holding GmbH. (Ltd.), which is majority owned by German LOESCHE GmbH, registered and with headquarters located in Austria, is an **engineering and technologies company** with focus on **optimization and efficiency improvement of cement plants**. The major competence of A TEC lies in the **pyroprocess** of the cement kiln. A TEC's expertise reaches from optimal **process-** and **mechanical design** to **fuel optimization** and **alternative fuels** implementation. With A TEC's subsidiary "**A TEC GRECO Combustion Services**", the company also offers state-of-the art high efficiency burners for kiln and calciner, in recent years further developed especially with very complex design for firing nearly any kind of alternative fuels. The latest generation **High-Momentum Low-NOx burner technology** fulfils and even exceeds the stringent requirements of today's cement kiln combustion.

Besides A TEC's core business of cement plant optimization, A TEC provides **consultancy and overall project management and supervision** for Greenfield and Brownfield projects (e.g. **EPCM**), including assistance in tendering process and assistance with environmental and other local norms and standards.

Part of modern cement plant operation is the usage of **alternative fuels**. A TEC's expertise in this field reaches back to the mid 1990's and today, A TEC can offer the complete AF system for **nearly any kind of solid and liquid waste materials** including material handling, preparation, storage and feeding into the kiln.

Together with its subsidiary A TEC GRECO, the **optimum combustion system for alternative fuels** can be supplied. In addition, A TEC provides the usually **necessary modification of the pyroprocessing system** of the cement plant for firing alternative fuels, i.e. modification of **preheater, calciner** and accessory equipment. In most cases these modifications are required to assure **stable kiln operation and maximum gain on energy efficiency**.



HURRICLON®

In addition, A TEC offers high competence solutions for **process technological optimization and upgrade of tube mills** for raw meal-, coal- and clinker grinding. A TEC's patented special cyclone "**HURRICLON®**" provides a unique high efficiency – low pressure drop cyclone for application in grinding circuits, preheater and clinker cooler de-dusting.

In total, A TEC has successfully **completed more than 450 cement plant optimization projects**, with all the "big players" in the industry, like Lafarge, Holcim, Cemex, Italcementi and Heidelberg Cement placing orders regularly on A TEC since many years, even for very large projects.

In Ethiopia, A TEC has successfully completed several projects with Messebo Cement Factory on EPC basis and currently is in the final stage of completing a biomass handling system on turnkey basis. Several other similar projects, including one large biomass project at National Cement S.C., are in negotiation phase.

Since more than two years, **LOESCHE GmbH is a majority stake holder** in A TEC and thus the synergies of LOESCHES' competences in grinding paired with A TEC's competence in the pyro process give the clients worldwide highly efficient solutions for their cement plant optimization or for new greenfield projects.

Banking Connection:

Comerzbank AG . BLZ: 19675
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IBAN: AT37 1502 2005 1104 0149. S.W.I.F.T. Code: OBKLAT2L

A TEC Production & Services GmbH
Finkensteiner Straße 9 . 9585 Gödersdorf
Tel.: +43 (0) 4257 3600 . Fax: +43 (0) 4257 3600-101
E-Mail: office@atec-ltd.com . www.atec-ltd.com
Company Reg. No: 250027m . Commercial Court: Klagenfurt
VAT-ID.: ATU61182348