

# **REFERENCELIST**

of

# **COKE-MAKING TECHNOLOGY**



**REV 2**



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- February 16 -

## 1 VeCon GmbH

VeCon GmbH is specialized in stamping technology development and equipment supply, the core technology of our company is stamping and stamp charged coke oven machinery as well as environmental protection technology. Our technology and experts are developed based on SAARBERG Interplan. Our experts have 30 years experience in stamp charged coking industry. The scope of supply ranges from design and engineering of individual machines up to the design/realization/commissioning of complete turnkey systems. Studies for economic implementation of these technologies, consultancies during the realization of projects, as well as the development of automation concepts complete VeCon's scope of performance.

A modern coke-making technology suitable for large coke ovens and for the utilisation of high-volatile and low-caking charge coal blends: this technology is provided by VeCon.

The Stamp Charging Technology, actually developed to industrial maturity, allows the use of a wide variety of charge materials, a decisive factor for economic efficiency. Therefore, this technology is finding increasing interest all over the world.

The Stamp Charging Technology is the key technology to meet the requirements imposed by restricted raw material sources and is characterised by the following advantages:

- Operational reliability on industrial scale;
- Economic production of high-quality metallurgical, foundry and chemical coke types from a wide range of charge coal blends;
- High productivity at favourable production costs, particularly where high-volatile and low-caking coals are used in combination with leaning materials, such as petroleum coke, coke breeze etc.;
- High level of automation, thus increased economic efficiency by reduced labour cost and improvement of working conditions;
- Improvement of environmental protection by a special charging gas transfer system; an ideal solution for emission-free charging is the single oven regulation in combination with the charging gas transfer system;
- Capital investment and operating cost comparable to the costs involved in Top Charging, but substantial savings for input materials;
- Possibility of converting conventional top charged batteries to the Stamp Charging Technology.

The Stamp Charging Technology is based on the experience and the know-how from many years of Research and Development particularly in the SAARBERG coke plant “Fürstenhausen” where Mr. G.Veit, the founder of VeCon, has been Managing Director for a longer period. This technology has been successfully implemented on industrial scale.

## 2 STAMP CHARGING &amp; COMPACTED CHARGING TECHNOLOGY

CUSTOMER	DATE	DESCRIPTION
SESA KEMBLA COKE CO.LTD. Panaji, Goa India	2002/3	Engineering/Supervision Manufacturing, Erection, Commissioning for a Coke Breeze Drying & Grinding Plant
BLA INDUSTRIES LTD Mumbai India	2002/3	Engineering/Supervision Manufacturing, Erection, Commissioning for a Coke Breeze Drying & Grinding Plant
ESFAHAN STEEL CORPORATION Esfahan Iran	2002/3	Engineering and Supply of 2 stationary hydraulic coke oven door cleaning devices
SHANXI COKING COAL IMPORT & EXPORT CORP. LTD. Taiyuan, Shanxi Province P. R. of China	2003	Supply of 2 sets of stamping systems and 1 bonding press incl. electrical equipment and machine positioning system for Coke Oven Plant WULIN, Shanxi (near Fenyang)
SHANXI DATUHE INTERNATIONAL TRADE CO. LTD. Taiyuan, Shanxi Province P. R. of China	2004	Supply of 2 sets of stamping systems and 1 bonding press incl. electrical equipment and machine positioning system for Coke Oven Plant LISHI, Shanxi
JINDAL VIJAYANAGAR STEEL LTD Bellary India	2004	Engineering, Supply, Supervision for the coke oven machines for a 600,000 tpa Heat Recovery Coke Plant (Phase 1)
SHENHUA COKE PLANT Wuhai, Inner Mongolia P.R.China	2005	Supply of 2 sets of stamping systems and 1 bonding press incl. electrical equipment
JINDAL VIJAYANAGAR STEEL LTD Bellary India	2005	Engineering, Supply, Supervision for the coke oven machines for a 600,000 tpa Heat Recovery Coke Plant (Phase 2)
SESA KEMBLA COKE CO.LTD. Panaji, Goa India	2005/6	Engineering, Supply, Supervision for the coke oven machines for a 360,000 tpa Heat Recovery Coke Plant
BLA INDUSTRIES LTD Mumbai India	2005/6	Engineering, Supply, Supervision for the coke oven machines for their 360,000 tpa Recovery Coke Plant in Mithapur
HUBEI XIN YEGANG Huangshi, Hubei Province P. R. China	2006	Supply of 2 sets of stamping systems and 1 bonding press incl. electrical equipment and machine positioning & identification system
HUBEI XIN YEGANG Huangshi, Hubei Province P. R. China	2007	Modification of electric system of charging machine and integration of automatic positioning & identification system

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KOKSOPROJEKT SPOLKA Z O.O. Zabrze Poland	2007/8	Supply of 2 sets of stamping systems and 1 bonding press incl. electrical equipment and machine positioning & identification system for RADLIN coke plant, Poland
KOKSOPROJEKT SPOLKA Z O.O. Zabrze Poland	2007/8	Supply of coal tower equipment and 20 coal feeders for new stamp charged batteries of RADLIN coke plant, Poland
ZARMEN SPOLKA Z O.O. Chorzow Poland	2007/8	Supply of a combined Charging-Pushing machine with automation system for the new RADLIN coke plant, Poland
DALIAN HEAVY INDUSTRIES Dalian CHINA	2007/8	Engineering & Supply of charging plate with driving equipment for the charging machine for Pangang, Panzhihua, China
MADENCILIK Zonguldak Turkey	2007/8	Basic & Detail Engineering for a 300 tpa Green Field Heat Recovery Coke Plant
FFE Minerals, Chennai, India for BENGAL ENERGY, Bengal, India	2008/9	Engineering of the Charging Machines and supply of 2 Charging Plate Drives for a Non Recovery coke plant
SHENHUA MENGXI Coal Mining Co.,Ltd., Mengxi, Inner Mongolia, P. R. China	2008/9	Engineering, supply and commissioning of 2 Charging Gas Transfer machines
DILLINGER HÜTTE / ZENTRALKOKEREI SAAR GMBH Dillingen, Germany	2008/9	Engineering, supply and commissioning of 2 Charging Gas Transfer machines with stand pipe, goose-neck and ministandpipe cleaners
HEBEI XINJING Coke Co.,Ltd. Shijiazhuang, Hebei Province, P. R. China	2008/9	Supply of 2 sets of stamping systems incl. electrical equipment
Shanxi Yuwang Coal & Gas Co., Ltd., Xinzhou, Shanxi Province, P. R. China	2008/9	Supply of 2 sets of stamping systems incl. electrical equipment
DILLINGER HÜTTE / ZENTRALKOKEREI SAAR GMBH Dillingen, Germany	2009	Engineering and supply of stationary and tilting oven door stands
DILLINGER HÜTTE / ZENTRALKOKEREI SAAR GMBH Dillingen, Germany	2009/10	Supply and implementation of a wireless data and video transfer system for the oven machines
DILLINGER HÜTTE / ZENTRALKOKEREI SAAR GMBH Dillingen, Germany	2009/10	Modernisation of the 6 m-SCP-Machines: <ul style="list-style-type: none"> <li>– Sealing frames</li> <li>– Door Cleaners</li> <li>– Stamping boxes</li> <li>– Charging trestles</li> <li>– Automation Systems</li> </ul>
SESAGOA LTD. Panaji, Goa India	2010	Engineering, Supply, Supervision for 1 pusher machine, 1 charging machine, 1 hot coke machine, 1

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		compacting station, 1 hot coke pusher their 250,000 tpa Heat Recovery Coke Plant at Navelim, Goa
Tangshan Huifeng Coking & Gas Co. Ltd Guye District Tangshan Hebei Province, China	2010	Supply of 2 sets of stamping systems and 1 bonding press incl. electrical equipment (5.5 m ovens)
Tengzhou ShengLong Coal & Coking Co. Ltd Tengzhou City Shandong Province, China	2010/11	Supply of 2 sets of stamping systems and 1 bonding press incl. electrical equipment (5.5 m ovens)
Taiyuan Kai Te Jia Machinery Co. Ltd Liujiabaoxiang Xiaodian Distr., Taiyuan City, Shanxi Province, China	2010/11	Supply of 2 sets of stamping systems and 1 bonding press incl. electrical equipment (4.3 m ovens) for Zouping Coke Plant, Shandong Province
Dalian Huarui Heavy Industry International Co., Ltd Xiang District, Dalian City, Liaoning Province, China	2010/11	Supply of 2 sets of 34-hammer stamping systems and 1 bonding press incl. electrical equipment (6.3 m ovens, SCP Machine) for Risun Coke Plant, Hebei Province
Shanxi Yongxin Coal Coking Co., Ltd Anze County, Linfen Shanxi Province, China	2010/11	Supply of 2 sets of 32-hammer stamping systems and 1 bonding press incl. electrical equipment (5.5 m ovens)
Taiyuan Kai Te Jia Machinery Co. Ltd., Liujiabaoxiang Xiaodian Distr., Taiyuan City, Shanxi Province, China	2011	Supply of 2 sets of 34-hammer stamping systems and 1 bonding press incl. electrical equipment (5.5 m ovens) for Quwo Coke Plant, Shanxi Province
Altos Hornos de Mexico S.A.B. de CV (AHMSA), Monclova, Coahuila, Mexico	2011/12	Automation, Positioning & interlocking of the existing coke oven machines in Coquizadora 2
SL Heavy Machinery Co. Ltd., Taiyuan City, Shanxi Province, China	2011	Supply of 1 set of 32-hammer stamping systems and 1 bonding press incl. electrical equipment +option for 2nd unit (5.5 m ovens) for Linyi Coke Plant, Shandong Province
Dalian Huarui Heavy Industry International Co., Ltd Xiang District, Dalian City, Liaoning Province, China	2011/12	Supply of 2 sets of 34-hammer stamping systems and 1 bonding press incl. electrical equipment (6.3 m ovens) for Lubao Coke Plant, Shandong Province
SL Heavy Machinery Co. Ltd., Taiyuan City, Shanxi Province, China	2011/12	Supply of 2 sets of 32-hammer stamping systems and 1 bonding press incl. electrical equipment (5.5 m ovens) for Tiexiong Coke Plant, Shandong Province
Dalian Huarui Heavy Industry International Co., Ltd Xiang District, Dalian City, Liaoning Province, China	2011/12	Supply of 2 sets of 34-hammer stamping systems and 1 bonding press incl. electrical equipment

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		(6.3 m ovens) for Pengfei Coke Plant, Shandong Province
Taiyuan Heavy Machinery Co., Ltd. Taiyuan City, Shanxi Province, China	2012	Supply of 2 sets of 34-hammer stamping systems and 1 bonding press incl. electrical equipment (6 m ovens, SCP Machine) for Golden Rock Coke Plant, Shanxi Province
Dalian Huarui Heavy Industry International Co., Ltd Xiang District, Dalian City, Liaoning Province, China	2012	Supply of 2 sets of 34-hammer stamping systems and 1 bonding press incl. electrical equipment (6.3 m ovens) for Shenhua Coke Plant, Inner Mongolia
Dalian Huarui Heavy Industry International Co., Ltd Xiang District, Dalian City, Liaoning Province, China	2012	Supply of 1 set of 37-hammer stamping systems and 1 bonding press incl. electrical equipment (7.4 m ovens) Change-over from TOP to STAMP charging for Shoushan Coke Plant, Shandong Province. <b>World record of the highest coal cake: 7.2 m high.</b>
ThyssenKrupp Uhde Dortmund, Germany	2012	Development and supply of Engineering for a Stamping System for Heat Recovery Coke Ovens
SL Heavy Machinery Co. Ltd., Taiyuan City, Shanxi Province, China	2013	Supply of 1 set of 32-hammer stamping systems (5.5 m ovens) for Linyi Coke Plant, Shandong Province
Dalian Huarui Heavy Industry International Co., Ltd Xiang District, Dalian City, Liaoning Province, China	2013	Supply of additional 2 sets of 34-hammer stamping systems incl. electrical equipment (6.3 m ovens) for Lubao Coke Plant, Shandong Province
Dalian Huarui Heavy Industry International Co., Ltd Xiang District, Dalian City, Liaoning Province, China	2013	Supply of 3 sets of 34-hammer stamping systems and 1 bonding press incl. electrical equipment (6.3 m ovens, SCP Machine) for Lianfeng Coke Plant, Jiangsu Province
SL Heavy Machinery Co. Ltd., Taiyuan City, Shanxi Province, China	2013	Supply of 2 sets of stamping systems and 1 bonding press incl. electrical equipment (4.3 m ovens) for Xiayi Jinhui Coke Plant, Shanxi Province
SL Heavy Machinery Co. Ltd., Taiyuan City, Shanxi Province, China	2014	Supply of additional 2 sets of 34-hammer stamping systems incl. electrical equipment (5.5 m ovens) for Hong Da Coke Plant, Shandong Province



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SL Heavy Machinery Co. Ltd., Taiyuan City, Shanxi Province, China	2014	Supply of additional 2 sets of 32-hammer stamping systems incl. electrical equipment (5.5 m ovens) for Mei Fang Coal & Coking Co. Ltd., Inner Mongolia
BLA COKE PVT. LTD.	2015/2016	Rebuild and Optimization of Compacting Station; Optimization of Charging Machine