

Company Profile

May 2018

Köhler & Hörter GmbH

D-58089 Hagen

Germany



1. Company Outline

Company Name: Köhler & Hörter GmbH

Address: P.O. Box 2005

D-58020 Hagen, Deutschland

Am Tempel 10

D-58089 Hagen, Deutschland

Communication: Tel.: 0049 (0)2331-9357-50

Fax: 0049 (0)2331-9357-98

E-Mail: sales@koho-kompressor.de www.koho-kompressor.de

Established in: May 1948

Chairman: Mr. André Hörter

Mr. Björn Hörter



2. Company Outline

Number of Employees: Engineers: 11
Administration: 5
Production: 29

Banks: Commerzbank Hagen
Deutsche Bank Hagen
Sparkasse Hagen

Products: Reciprocating Compressors

Packaging of reciprocating compressors

Modernization, retrofitting and overhaul of compressor units for optimized efficiency and greater reliability

Gastight bulkhead shaft penetrations



Please find below our product range and scope of supply

Construction:

Vertical Construction, Non Lubricated, Reciprocating Process Gas Compressors.

The advantage of vertical type is the extended life time of piston rings and the less wear of cylinder liners, because the weight of the piston do not burden the piston rings.

Media:

Hydrocarbons, Noble gases, Exhaust vapours, pure Hydrogen, Nitrogen and all process gases, even very aggressive Hydrosulphides with the exception of pure Oxygen and Acetylene.

Number of stages: 1, 2, 3 or 4

Number of cylinders: 1, 2 or 3

Suction pressure: Up to 15,0 MPa g (for booster applications)

Discharge pressure: Up to 30,0 MPa g

Shaft power: 10 to 500 kW

Volume flow: Between 100 and 16 000 m³N/h (depending on pressure

ratio)

KoHo compressor systems are designed for variable suction pressure with specifications and regulations laid down in API 618, ISO 9001, NACE, DVGW, ASME, TEMA, PED, DIN EN 729-3;AD 2000/HPO, Stoomwezen, Norske, Veritas, Germanischer Lloyd as well as special factory standards of International clients.

KoHo has special experience & know how for very aggressive gases, such as NOx and H_2S for many years.



3. Main Customers (Excerpt)

Chemicals / Pharmacy:

BASF AG

Chemische Werke Hüls AG

Dow Chemical

Hoechst AG / Clariant

InfraServ

Neste OY

Wacker Chemie

H & M ChemPharm

Clariant

Dairen Chemicals, Taiwan

Polynar, Iran

UCB Pharma, Belgien

Bheshar, Iran

Borsodchem, Ungarn

Petrochemicals:

Sasol

Indian Petrochemicals

Mobil Oil

OMV

Shell

Veba Oel

Degussa

Consulting Engineers:

Borealis Polymers

DSD

ENPPI

Fortum Oil and Gas Oy

Neste Engineering

Foster Wheeler

John Brown

Krupp Uhde

KTI - India

Lurgi

Mahler IGS

Technip

Messer AGS

Davy Process Technology

GS Engineering & Construction

Naval sector:

A. P. Möller

Chemgas

HDW

Strabag

TGE - Bonn

Food Industry:

Bitburger Brauerei

General Biscuits

Guinness

HAG AG

Jacobs AG

HABAS, Türkei

Extraction Engineering:

Hopfenextraktion

Uhde Hochdrucktechnik

Martin Bauer

Engineering and construction:

Air Products

Air Liquide

Buse Anlagenbau

Mannesmann Anlagenbau

Messer AGS

Schlömann Simag

Welmac

Ferrostaal

Gas Storage and Exploration:

BEB Hannover

Energieversorgung Oberhausen

Preussag AG

Wintershall AG

Public Utility Company:

Bad Kreuznach; Eutin

Glückstadt; Illingen

Lemgo; Paderborn

Rotenburg; Singen

Tioteribuig, Siligeri

Essen; Memmingen

Münster; Bernburg

Bocholt: Albstadt

Herford



4. Representations and Cooperation's

Europe:

Belgium Finland

France

Great Britain

Netherlands

Norway

Romania

Sweden

Czech Republic

Hungary

Asia:

China

India

Iran

Japan

Qatar

Korea

Malaysia

Singapore

Taiwan (China)

Thailand

Africa:

Egypt

America:

Mexico

Brazil



5. Tools and Equipment

Mechanical machining:

CNC- turning centre CNC- power drill and mill machines Grinding machines Honing machine Sand blasting machine

Welding Equipment:

TIG welding machine MIG/MAG welding machine

Lifting Device:

20 Ton Crane 10 Ton Crane 5 Ton Crane Fork Lifter

Testing Equipment:

Test room with machine foundation,
Frequency transformer
Shop motor for machine test run
Testing and measurement equipment
Closed cooling water system for machine test run

Office and Engineering Facilities:

3D CAD (Mechanical Desktop, Inventor and Autocad)
Hardware and software for project control, monitoring, scheduling and optimum utilisation of resources
Software for sizing, design and selection of components & machines



Quality Management:

In accordance with ISO 9001 through TÜV CE-Marking of the Products

Welding Approvals:

In accordance with AD-M HP2/1 EN 288-3 / EN 287-1 / EN 729-3 Schweissverfahrensprüfung F3, F4 und A1, A2

Classification Certification:

Bureau Veritas Det Norsk Veritas Germanischer Lloyd Gosgortechnadzor Lloyds Register TÜV

The machines and its components are designed according to Customers requirements, and possible to following Codes and Standards:

AD 2000 / Druckgeräterichtlinie
Pressure Equipment Directive 97/23/EC (PED)
ASME Boiler & Pressure Vessel Code VIII/Div.1
China ML
TEMA
Berufsgenossenschaftsvorschriften
DVGW
IEC
ISO 8012
KHK-Japan
VDI
Eurasien Conformity

6. Company History



1948	Foundation of the company through Mr August Hörter and Mr Alfred Köhler
1951	Design and fabrication of own product series of oil-lubricated piston compressors
1962	Design and fabrication of the first oil-free piston compressors
1965	Relocation to our present operating side
1966	Construction and building of the first reciprocating compressors
1973	Production of oil-lubricated piston compressors discontinued
1974	Enlargement of the type programme
1979	First reciprocating compressors for high aggressive NO _x gas
1980	First reciprocating compressors for the CO ₂ extraction
1981	First leakage-free reciprocating compressor with pressure-tight crankcase
1982	First reciprocating compressor for H2S sour gas
1983	First reciprocating compressor for municipal utility natural gas storage
1984	Admission of our reciprocating compressors through Germanischen Lloyd and delivery of the first one for gassing oil tanker
1984	Construction and building of the first bulkhead shafts
1985	Start of first Quality Assurance logs and order-related archiving
1985	Introduction of a new and extended compressor type
1987	Delivery of the first H2O vapour gas compressor unit
1992	Delivery of the 1000th KoHo-Compressor
1993	Set-up of Quality Assurance System according to DIN ISO 9001
1994	Licence agreement with the Japanese company Tanabe
1995	Third party certification through DQS according to DIN EN ISO 9001
1996	First compressor package for dry hydrogen with 200 bar outlet pressure
1999	Company enlargement. Construction of an additional workshop with compressor test bench and 20 ton lifting crane
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2002	Third party certification through RWTÜV according to EN ISO 9001, EN 97/23/EG (DGRL), EN 729-3 (AD 2000 HP)
2013	Company enlargement. Construction of an additional workshop.
2012	First compressor package for bone dry nitrogen with 200 bar outlet pressure
2013	First compressor package for outdoor installation in Russia at -47°C
2013	Third party certification for Gost-R, Ex-Gost
2016	Delivery of the 700 th Process gas compressor
2016	Engineering and development of a gas tight / leakage free compressor
2016	Engineering and development of a compressor for cryogenic applications (gas inlet temperature of -163°C)

KÖHLER & HÖRTER GmbH
Postfach 2005
D-58020 Hagen

Björn Hörter Managing Director





KÖHLER & HÖRTER GMBH · POSTFACH 2005 · D-58020 HAGEN

TO WHOM IT MAY CONCERN

IHR ZEICHEN

IHRE NACHRICHT VOM

UNSER ZEICHEN

TELEFON-DURCHWAHL -50

22th of May 2018

We, hereby declare that Messrs. ELECTRO TEHRAN IMPEX Co. Ltd. (Eltex), having their principle place of business at

No. 3, 7th Street, Khaled Eslambouli Ave.,

Tehran 15137 13915, Iran.

Phone: +98 (21) 8872 4292

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is our official Sales office in the I.R. Iran.

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Björn Hörter, Managing Director

