Company Profile

February 2022

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
	Internet:	www.koho-kompressor.de
Established in:	May 1948	
Chairman:	Mr. André Hörter Mr. Björn Hörter	

2. Company Outline

Number of Employees:	Engineers:	9
	Administration:	5
	Production:	25
	Total	39
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 25 000 m^3N/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
Chemgas
HDW
Strabag
TGE-Bonn

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

Food Industry:

Bitburger Brauerei
General Biscuits
Guinness
HAG AG
Jacobs AG
HABAS, Türkei

Extraction Engineering:

Hopfenextraktion
Uhde Hochdrucktechnik
Martin Bauer GmbH

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
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
Poland
Turkey

Asia:

China
India
Iran
Japan
Qatar
Korea
Malaysia
Singapore
Taiwan (China)
Thailand

Africa:

Egypt

America:

Mexico
Brazil
USA

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
Eurasian 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 H_2S sour gas
1983	First reciprocating compressor for municipal utility natural gas storage
1984	Admission of our reciprocating compressors through Germanischer 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 H_2O 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

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 700th 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)

2016 First compressor package with separate refrigeration unit for ammonia

2019 First compressor package for SO_2 gas

2021 Successfully Certification of Natural Gas Compressor according TRCU Regulation

2022 Participate for a major H2 pilot plan at RWE Germany

Björn Hörter
Managing Director