MANAGEMENT SYSTEM CERTIFICATE

Certificate No.:
470788-2022-AE-RGC-CNAS

Initial certification date:
21 January, 2022

Valid:
18 December, 2025 – 21 January, 2028

This is to certify that the management system of

thyssenkrupp rothe erde (Xuzhou) Ring Mill Co., Ltd.

No. 6, Luoshan Road, Xuzhou Economic Development Zone, Xuzhou, Jiangsu, China, 221004

has been found to conform to the Energy management system standard:

GB/T 23331:2020/ISO 50001:2018

in compliance with RB/T 119-2015 Energy Management System-Certification Requirements for Machinery Industry

This certificate is valid for the following scope:

Energy Management of the Production of Seamless Forged Rings and Related Supporting Activities

Place and date:
Shanghai, 19 December, 2025

中国认可
管理体系
MANAGEMENT SYSTEM
CNAS C149-M

For the issuing office:
DNV - Business Assurance
Suite A, Building 9, No.1591 Hongqiao Road, Changning District, Shanghai 200336, P.R. China
TEL: +86 21 3279 9000

Zhu Hai Ming
Management Representative

Lack of fulfilment of conditions as set out in the Certification Agreement may render this Certificate invalid.
ACCREDITED UNIT: DNV Business Assurance China Co. Ltd. Suite A, Building 9, No.1591 Hongqiao Road, Changning District, Shanghai 200336, P.R. China - TEL: +86 21 3279 9000. www.dnv.com/assurance
THE VALIDITY OF THE CERTIFICATE CAN BE CHECKED THROUGH THE CNCA WEBSITE IN CHINA. HTTP://WWW.CNCA.GOV.CN

Certificate No.: 470788-2022-AE-RGC-CNAS
Place and date: Shanghai, 19 December, 2025

Appendix to Certificate

thyssenkrupp rothe erde (Xuzhou) Ring Mill Co., Ltd.

Phase of Certification	Total Production Energy Consumption		Energy Review Boundary
Recertification Audit	Jan. To Dec. 2023		Production System: the Production of Ring Forgings, Covers: Sawing, Heating, Upsetting Punching, Ring Rolling, Heat Treatment, Quality Inspection, Warehousing and Other Production Processes. Auxiliary Production System: Power Supply System, Compressed Air System, Cooling Water System, Circulating Air System, Related Energy Activities. Excluding External Processing Supplementary Production Systems: Used to Support Office and Logistics Activities of Production and Operation Systems
	Annual Comprehensive Energy Consumption	22081tce	
	Comprehensive Energy Consumption Per Unit Product	0.191tce/ton	
1st Surveillance Audit	Jane. To Dec. 2024		
	Annual Comprehensive Energy Consumption	22521tce	
	Comprehensive Energy Consumption Per Unit Product	0.192tce/ton	

管理体系认证证书

证书号码:
470788-2022-AE-RGC-CNAS

首次签发日期:
2022年01月21日

有效期限:
2025年12月18日 – 2028年01月21日

兹证明

蒂森克虏伯罗特艾德（徐州）环锻有限公司

中国江苏省徐州市经济技术开发区螺山路6号，邮编：221004
统一社会信用代码：91320301778691949W

能源管理体系符合:

GB/T 23331:2020/ISO 50001:2018标准

同时符合 RB/T 119-2015 能源管理体系 机械制造企业认证要求

此证书对下列范围有效:

环锻件的生产及辅助活动中涉及的能源管理

证书制作地点及日期:
上海，2025年12月19日

证书认可签发机构:
DNV - Business Assurance
中国上海市长宁区虹桥路1591号9号楼A座
邮编: 200336 **电话:** +86 21 3279 9000

中国认可
管理体系
MANAGEMENT SYSTEM
CNAS C149-M

朱海明
管理代表

证书号码：470788-2022-AE-RGC-CNAS
证书制作地点及日期：上海，2025年12月 19日

证书附页

蒂森克虏伯罗特艾德（徐州）环锻有限公司

认证阶段	综合能耗		能耗核算边界
换证认证	2023 年 01-12 月		生产系统：环锻件的生产，涵盖：锯切、加热、锻造冲孔、环轧、热处理、质检、入库等生产过程。 辅助生产系统：供配电系统、压缩空气系统、冷却水系统、送排风系统相关的能源动力供应等活动，不含外协加工。 附属生产系统：用于支持生产经营系统办公和后勤等活动
	年综合能耗：	22081 吨标准煤	
	单位产品能耗：	0.191 吨标准煤/吨	
第一次监督审核	2024 年 01-12 月		
	年综合能耗：	22521 吨标准煤	
	单位产品能耗：	0.192 吨标准煤/吨	