



Professional Manufacturer
Ferrite Magnets

中高档永磁铁氧体专业制造

中钢天源(马鞍山)通力磁材有限公司
SINOSTEEL TIANYUAN (MA'ANSHAN) TONGLI MAGNETIC MATERIAL CO., LTD.



ISO/TS 16949:2009 ISO9001:2008 ISO14001:2004 OHSAS18001:1999认证企业
Certificated by ISO9001:2008, ISO14001:2004 and OHSAS18001:1999

公司简介 About US

中钢天源（马鞍山）通力磁材有限公司是隶属于中钢天源的全资控股子公司，位于长江南岸的马鞍山市，交通便利，距南京机场仅四十分钟车程。

中钢天源是由中国中钢集团控股的国有上市公司，产品制造与研发技术实力雄厚，目前主营业务有高纯四氧化三锰、稀土钕铁硼磁体、永磁铁氧体磁体、伺服电机及各类选矿设备。

公司拥有国内最先进的高档永磁铁氧体磁体生产线，自动化程度高，生产工艺先进。目前可年产1万吨不同规格、性能、形状的磁体，整体实力位居全国前五名。

依托中钢天源“安徽省磁性材料工程中心”为技术平台，中钢天源通力公司批量生产性能相当日本TDK水平FB5、FB6、FB9系列产品，并可根据客户需求开发高剩磁、高矫顽力及双高的特殊形状的非定型产品。

公司始终坚持以人为本，视品质为价值和尊严，以百倍努力为客户提升价值，回报客户的信任。中钢天源“通力”愿与国内外各界朋友通力合作，推动磁性材料工业的发展，力争成为国内领先、国际著名的永磁铁氧体材料生产企业。

Sinosteel Tianyuan (Ma'anshan) Tongli Magnetic Material Co., Ltd, short for SATT Tongli, a subsidiary of Sinosteel Anhui Tianyuan Technology Co., Ltd., short for SATT, located at Ma'anshan City, which is near to Yangtze River and Shanghai port, and only 40 km to Nanjing Lukou International Airport (NKG).

SATT is a state-owned public company controlled by Sinosteel Group and has rich experience on magnets production and development. Currently, the main products of SATT include high purity Mn_3O_4 , ferrite magnets, Neodymium magnets, servo motor and mining separating equipments.

SATT, one of the top-five manufacturers in mainland China, who operates the advanced highly automatic permanent ferrite magnet production line domestically, is capable to produce 10,000 tons of magnets in various specification.

Rely on SATT's R&D facility which is appraised as the Magnetic Materials Engineering Center of Anhui Province, SATT Tongli offers mass produced equivalent of TDK FB5, FB6 and FB9 magnets, as well as customized products in accordance with customer requirements on remanence ratio, coercive force, appearance and size.

SATT always stands on its ideology, People-Oriented, Quality Lead and Customer Orientation, and is striving to be one of leading ferrite manufacturers.

SATT has been looking forward to supply and serve any domestic or foreign customer to participate in promotion of magnetic material industry and motor industry together.

产品介绍 Product Introduction

汽车电机磁瓦 / Magnets for Automobile Motors

可用于起动电机、燃油泵电机、雨刮器电机、玻璃升降器电机、暖风电机、冷凝电机、蒸发电机、自动天线电机、集控门锁电机、座椅电机等。

Available for automobile starter motor, fuel pump motor, windshield wiper motor, window lifter motor, heater, condenser motor, evaporating motor, automatic antenna motor, door interlocking motor and seat motor.

家用电器电机磁瓦 / Magnets For Household Electric Appliance Motors

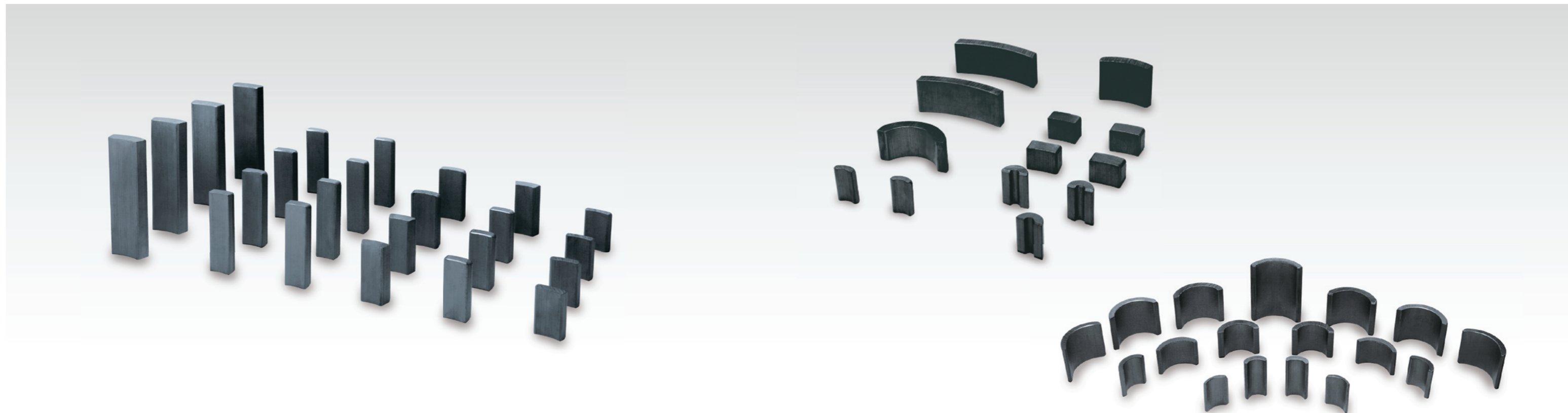
可用于变频空调电机、变频洗衣机电机、冰箱压缩机电机和豆浆机电机

Available for motors used in variable frequency air conditioner, variable frequency washer, refrigerator compressor and soybean milk machine.

直流永磁电机类磁瓦 / Magnets for DC Permanent Magnet Motors

可用于电动工具、健身器材电机、数码发电机等

Available for motors used in power tool, fitness equipments motor and the digital power generator.

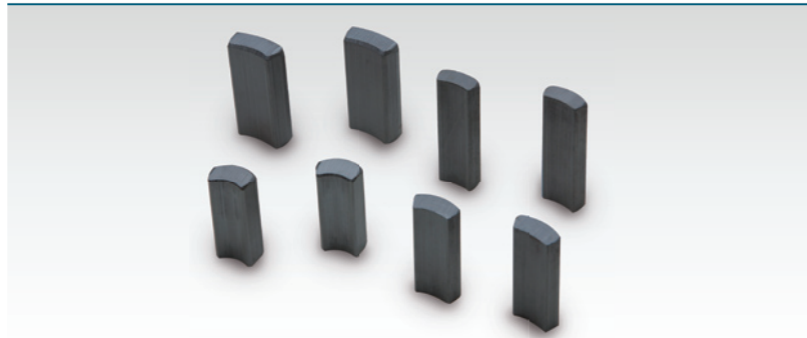


应用领域 / Application

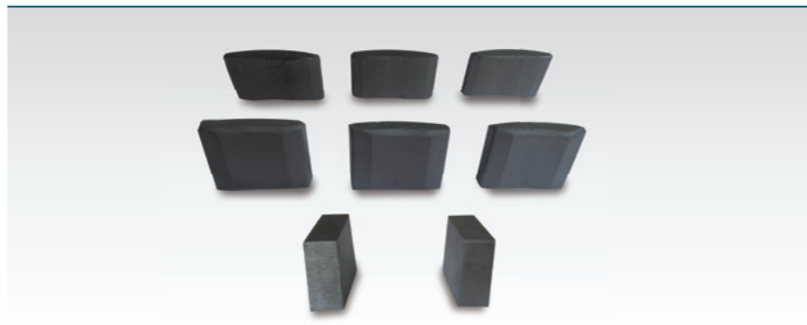


产品推介 Key Products

» 变频空调电机磁瓦 / Magnets for variable frequency air conditioner motor



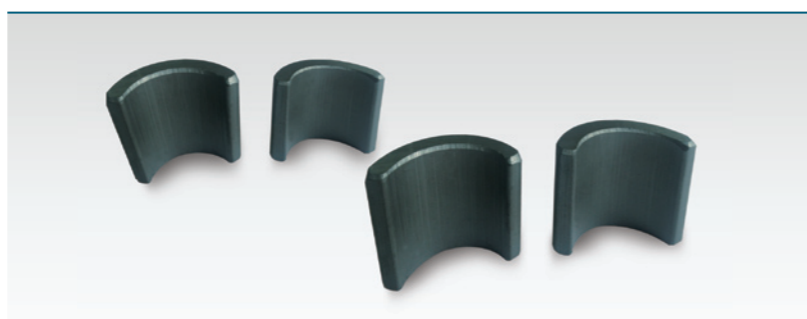
» 变频洗衣机电机磁瓦 / Magnets for variable frequency washer motor



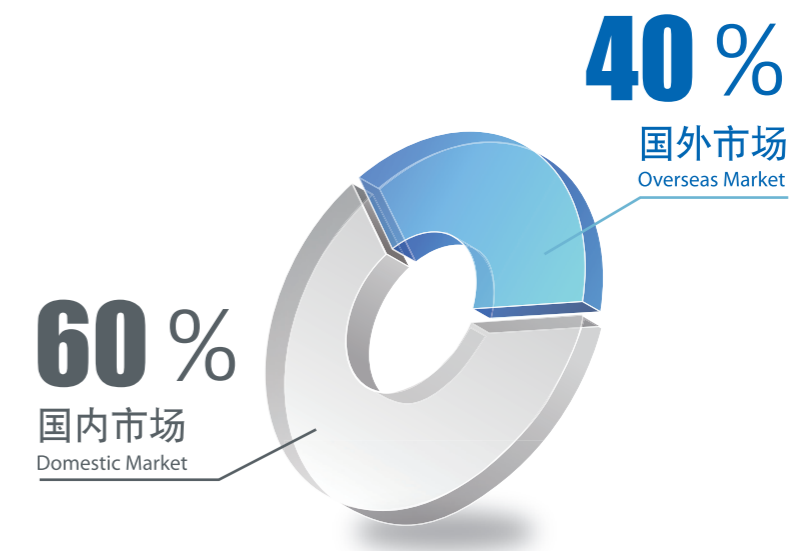
» 冰箱压缩机电机磁瓦 / Magnets for refrigerator compressor motor



» 厨房小家电电机磁瓦 / Magnets for small kitchen appliances



市场与伙伴 Market and Partners



» 知名客户 / Famous Customers



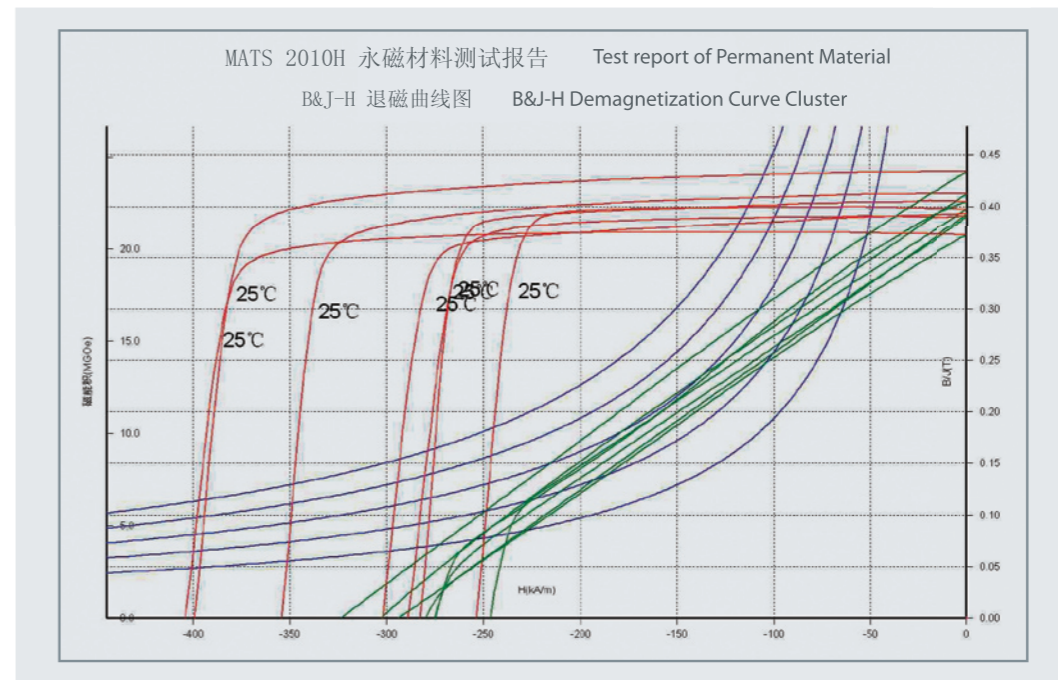
永磁铁氧体特性标准 / SATT Tongli Property Standard of Permanent Ferrite Magnet

TYTL 材质牌号 TYTL Material Grade	Br		Hcb		Hcj		BH(max)		相当于 TDK材质 TDK Equivalent	相当于美国 陶瓷标准 America Ceramic Standard Equivalent	相当于 国家标准 State Standard Equivalent
	mT	Gs	KA/m	Oe	KA/m	Oe	KJ/m ³	MGOe			
TY28B	393±5	3930±50	268±8	3350±100	283±8	3550±100	29.8±1.6	3.7±0.2	FB4系列	C8系列	Y30H-1
TY28B-3	400±5	4000±50	250±8	3150±100	260±8	3250±100	29.8±1.6	3.7±0.2	FB4B	C8系列	Y30H-1
TY28H	385±5	3850±50	273±8	3400±100	303±8	3800±100	27.8±1.6	3.5±0.2	FB4系列	C8系列	Y30H-1
TY28H-2	370±5	3700±50	273±8	3400±100	323±8	4050±100	27.8±1.6	3.5±0.2	FB4系列	C8系列	Y30H-1
TY28H-3	390±5	3900±50	275±8	3450±100	308±8	3850±100	28.8±1.6	3.6±0.2	FB4系列	C8系列	Y30H-2
TY33H	390±5	3900±50	275±8	3450±100	315±8	3950±100	28.8±1.6	3.6±0.2	FB5系列	C9系列	Y30H-2
TY40B	400±5	4000±50	268±8	3350±100	288±8	3600±100	32.8±1.6	4.1±0.2	FB5系列	C10系列	Y30H-2
TY41B	410±5	4100±50	273±8	3400±100	285±8	3550±100	33.4±1.6	4.2±0.2	FB5B	C10系列	Y33
TY42H	370±5	3700±50	295±10	3700±125	400±10	5000±125	28.8±1.6	3.6±0.2	FB6系列	C9系列	Y35
TY42BH	375±5	3750±50	295±10	3700±125	388±8	4850±100	27.5±1.6	3.45±0.2	FB6E	C9系列	Y35
TY42B	410±5	4100±50	285±8	3600±100	315±8	3950±100	33.4±1.6	4.2±0.2	FB6B	C10系列	Y35
TY42N	425±5	4250±50	255±10	3200±125	265±10	3300±125	33.4±1.6	4.2±0.2	FB6N	C10系列	Y35
TY43B	395±5	3950±50	295±10	3700±125	393±10	4900±125	30.8±1.6	3.85±0.2	FB6系列	C10系列	Y35
TY43BH	415±5	4150±50	295±10	3700±125	358±10	4500±125	33.4±1.6	4.2±0.2	FB6H	C10系列	Y35
TY45B	430±5	4300±50	305±10	3800±125	368±10	4600±125	36.8±1.6	4.6±0.2	FB9B	C11系列	Y40
TY45BH	420±5	4200±50	305±10	3800±125	380±10	4800±125	33.8±1.6	4.2±0.2	FB9系列	C11系列	Y40
TY46B	440±5	4400±50	315±10	3950±125	368±10	4600±125	38.6±1.6	4.8±0.2	FB9B	C11系列	Y40
TY46BH	430±5	4300±50	318±10	4000±125	390±10	4900±125	35.0±1.6	4.4±0.2	FB9H	C11系列	Y40
TY47B	460±5	4600±50	315±10	3950±125	368±10	4600±125	38.6±1.6	4.8±0.2	FB12B	-	Y40
TY47BH	450±5	4500±50	318±10	4000±125	390±10	4900±125	35.0±1.6	4.4±0.2	FB12H	-	Y40



激光粒度仪
Laser Particle Size Analyzer

退磁曲线图 / Demagnetization Curve Cluster



备注: ① 实验方法: 按GB/T3217-92规定
② 附加磁特性与物理特性
相对回复磁导率队: $\mu_{res}=1.05 \sim 1.3$
剩磁温度系数: $(Br)=-0.2\% \cdot ^\circ C^{-1}(0 \sim 100^\circ C)$
磁化强度矫顽力温度系数:
 $\alpha(Hcj)=0.25 \sim 0.5\% \cdot ^\circ C^{-1}(0 \sim 100^\circ C)$
居里点: $T_c=450^\circ C$
密度: $\rho=4.6 \sim 5.1g/cm^3$
电阻率: $\rho > 105cm$

Notes: ① Test methods according to GB/T3217-92
② Additional magnetic and physical properties
Relative recovery permeability: $\mu_{res}=1.05 \sim 1.3$
Remanence temperature coefficient $(Br)=-0.2\% \cdot ^\circ C^{-1}(0 \sim 100^\circ C)$
Temperature coefficient of coercivity of magnetization
 $\alpha(Hcj)=0.25 \sim 0.5\% \cdot ^\circ C^{-1}(0 \sim 100^\circ C)$
Curie point: $T_c=450^\circ C$
Density: $\rho=4.6 \sim 5.1g/cm^3$
Resistivity: $\rho > 105cm$

研发与检测能力 R&D

依托中钢天源“安徽省磁性材料工程中心”、“院士工作站”和“博士后工作站”等多个平台，多名博士、高级工程师领衔的研发团队，和从德国、荷兰进口的包括激光粒度仪、X荧光光谱仪和X射线衍射仪在内的多种研发和检测设备，中钢天源通力公司始终致力于各类瓦型高性能永磁铁氧体磁体的研发与生产，产品可达国际领先水平，并可根据客户需求开发高剩磁、高矫顽力及双高的非定型产品。

SATT Tongli has been dedicated to development and production of high performance ferrite magnets with support of the Magnetic Materials Engineering Center of Anhui Province, a Academician Workstation and a Postdoctoral Workstation set up in SATT, a experienced R&D team consisting of a few PhDs and senior engineers, and a set of advanced research instruments, including Laser Particle Size Analyzer, X-Ray Fluorescence Spectrometer and X-Ray Diffractometer made by Germany and Holland.

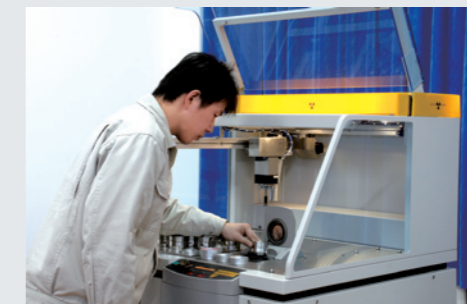
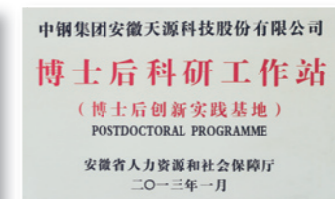
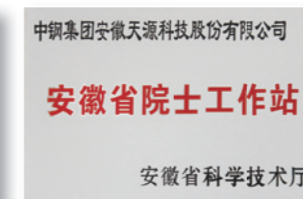


永磁材料自动测试装置TPS-2000H
TPS-2000H automatic testing instrument for permanent ferrite magnet



高端研发平台 Exclusive R&D Platform

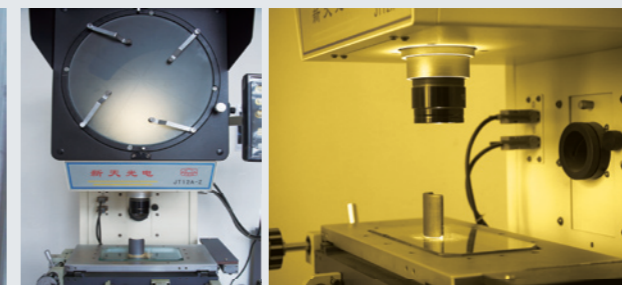
2个国家级平台，5个省市级平台，近10余家大学、科研院所鼎力支持合作
SATT has been cooperated with 2 state-level facilities, 5 provincial facilities, about a dozen universities and institutes.



X荧光分析仪
X-Ray Fluorescence Spectrometer



X射线衍射仪
X-Ray Diffractometer



投影仪JT12A-Z
JT12A-Z Projector

生产能力 Production Capacity

设备自动化全流程覆盖

Mass deployment of automatic equipments in production



8条国内领先水平的永磁铁氧体器件生产线
8 domestically advanced ferrite magnets production line

年产1万吨中高档永磁铁氧体器件
Annual throughput of 10000 ton high performance ferrite magnets



永磁铁氧体生产工艺流程图

Production Chart of Permanent Ferrite Magnet



质量方针

Quality Policy:

以人为本、科技领先、速以致远、顾客满意

People-oriented, technology advanced, high-efficiency and customer satisfaction.



品质管理 Quality Management

中钢天源通力公司设立了直属最高管理者领导的品质管理部，专职负责贯彻实施公司质量方针、质量目标，并从“人、机、料、法、环”等五大因素增强管控能力，建立相关流程制度对各环节进行控制，维护质量管理体系有效运行、控制产品质量、实现产品和服务质量的持续改进。

SATT Tongli has established a well-organized quality management system from top to bottom to implement quality standard. The QC division who reports to the top management directly carries out strategic quality improvement and operational quality control activities according to TQM principles, kaizen and other good quality management theories and practices.



中钢天源电子材料科技产业园

永无止境追求质量之完善

Endless pursuing of perfect quality

全力打造国家级磁材生产基地

Establishing a state-level magnets production base with all our exertion

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