

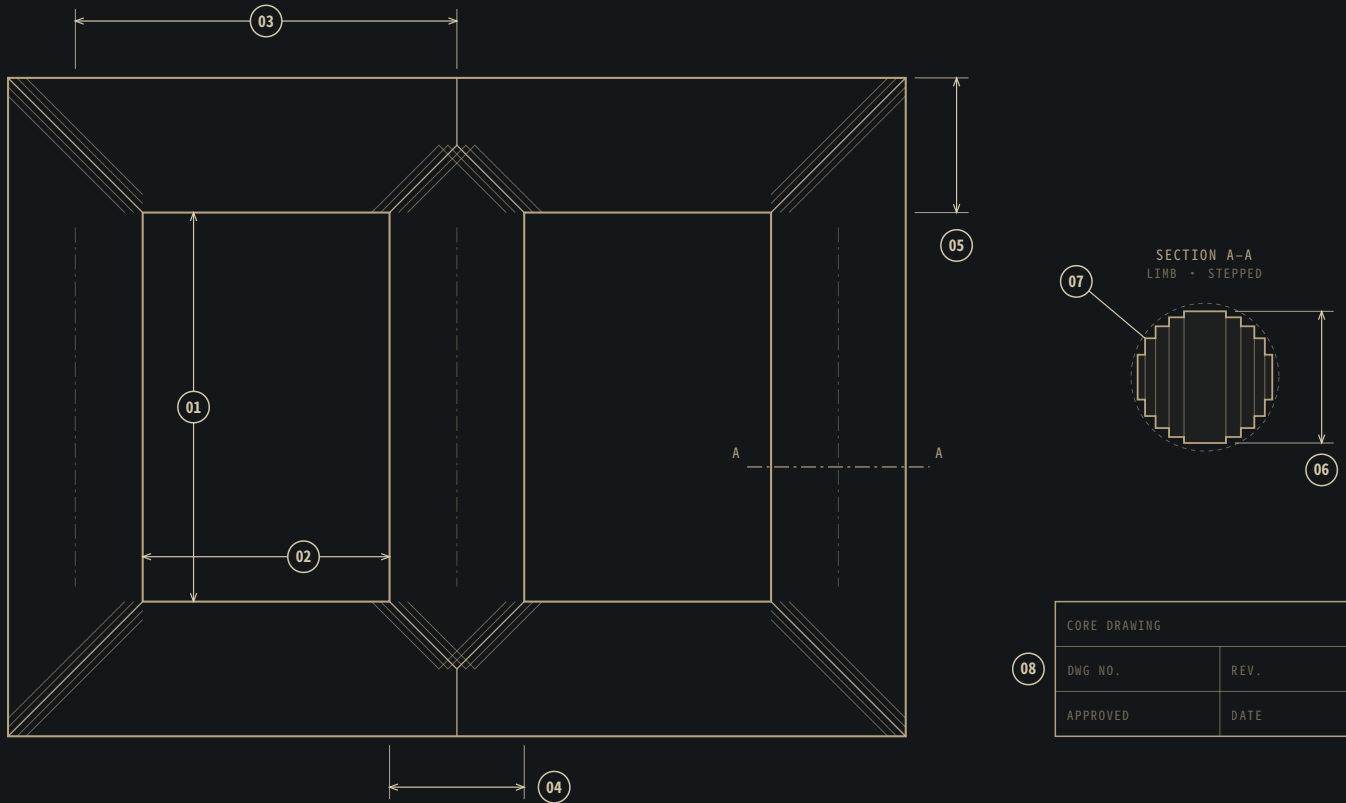


CHENFAN ELECTRIC

COMPANY & CAPABILITY BRIEF

2026 • EN

BUILT TO THE APPROVED DRAWING • THREE-PHASE THREE-LIMB CORE



— TRANSFORMER CORES / CRGO / GOES

Factory-direct transformer cores & CRGO supply.

Built around your drawing — from stocked electrical steel to finished cores up to 100 t, for transformer manufacturers worldwide.

100 t

SINGLE-CORE
CAPABILITY

890 mm

MAX CUT-TO-
LENGTH WIDTH

< 0.02 mm

BURR
HEIGHT

> 97 %

STACKING
FACTOR

~ 3,000 t

CRGO IN
REGULAR STOCK

~ 7 days

REGULAR-PRODUCT
LEAD TIME

WHO WE ARE

Steel in. Cores out.

Transformer cores and CRGO for manufacturers worldwide. Material preparation, precision cutting, core assembly and export packing run as one controlled sequence in our own facility.



FIG 01 XIONGXIAN, HEBEI — PRODUCTION HALLS



FIG 02 OFFICE & TECHNICAL COORDINATION

XiongXian Chenfan Electric Power Technology Co., Ltd.

manufactures transformer cores and supplies grain-oriented electrical steel — CRGO coils, slit coils, precision-cut laminations, pre-stacked packets and complete core assemblies.

Longitudinal slitting, automatic cut-to-length lines, step-lap production and pre-stacking feed an assembly operation that builds single cores up to 100 t.

Every order starts from an approved drawing and a defined material specification.

LOCATION	Baoding, Hebei, China
SCOPE	Cores · CRGO supply & processing · SKD / CKD
MARKETS	China · SE Asia · Africa · Middle East · Europe · S. America
QUALITY	ISO 9001:2015
LANGUAGES	English · Chinese

WHY TRANSFORMER OEMS WORK WITH US

01 No trading layer You talk to the people who set the blade clearance and the step-lap offset.	02 Steel on the floor ~3,000 t of CRGO in regular stock — regular products ship in about a week.	03 Heavy-core capability Single cores up to 100 t; executed references to the 330 kV class.	04 Records with the order MTC, dimensional report and production photographs — not after it.
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CAPABILITY

Manufacturing strength, in hard numbers.

100_t

SINGLE-CORE CAPABILITY

Heavy-core stacking, clamping and controlled turning on a hydraulic tilting table.

~3,000_t

REGULAR CRGO INVENTORY

Across grades and gauges — a confirmed drawing does not wait for a mill schedule.

~1,500_{t / month}

PROCESSING CAPACITY

Slitting, cut-to-length, pre-stacking and core assembly throughput.

890_{mm}

MAX CUT-TO-LENGTH WIDTH

Automatic CRGO lamination processing; slit widths to your schedule.

<0.02_{mm}

BURR HEIGHT

Cut-edge condition checked during production.

>97_%

STACKING FACTOR

Measured on the assembled stack and recorded per order.

MANUFACTURING ENVELOPE

MATERIAL	CRGO / GOES — conventional · Hi-B · laser-scribed
THICKNESS	0.18 / 0.20 mm standard · 0.23 / 0.27 / 0.30 mm by project specification
JOINT & STRUCTURE	Multi-step-lap · 3-phase 3-limb · 5-limb · single-phase · custom geometry
SUPPLY FORMATS	Slit coil · cut laminations · pre-stacked packets · stacked / assembled core · SKD / CKD
EXECUTED REFERENCES	330 kV EHV · 125 MVA five-limb · railway traction · reactor & wound cores
LEAD TIME*	~7 days for regular products · 15 years in the industry · ~USD 30 million annual sales



* REGULAR PRODUCTS AND STOCK GRADES; SUBJECT TO MATERIAL GRADE, QUANTITY, DRAWING APPROVAL AND PRODUCTION SCHEDULE.

MANUFACTURING ROUTE

One operation. Six controlled stages.

Every stage closes with a checkpoint before the next one starts — inside our own facility, with no subcontracted processing.



Material control

GRADE • THICKNESS • COIL ID • MTC

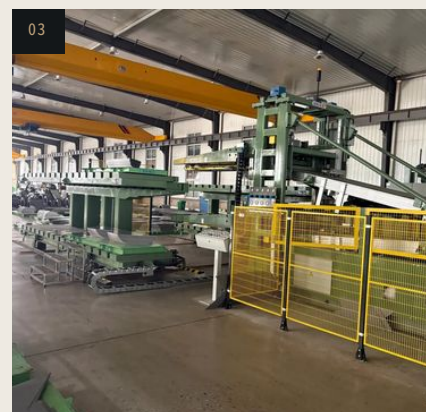
Material checked against the purchase specification before release.



Precision slitting

STRIP WIDTH • EDGE QUALITY

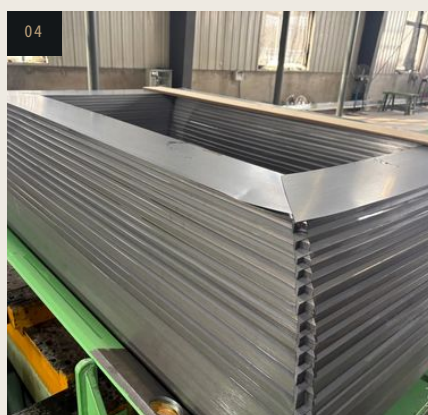
Master coil slit to the widths the schedule specifies.



Step-lap cutting

LENGTH • ANGLE • HOLE POSITION

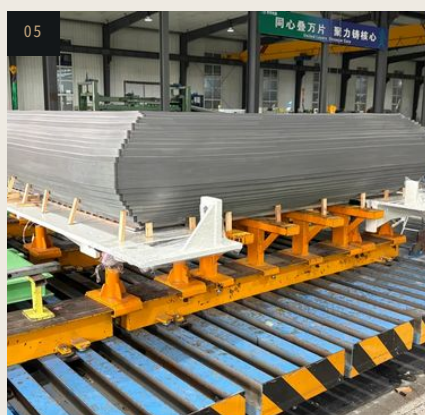
Automatic cut-to-length lines with mitres, holes and notches.



Pre-stacking

PACKET COUNT • SEQUENCE • MARKING

Laminations counted and grouped in the released joint sequence.



Core assembly

STEP-LAP OFFSET • WINDOW • CLAMPING

Stack built, aligned and clamped — up to 100 t per core.



Inspection & packing

GEOMETRY • SF • RECORDS • RESTRAINT

Records verified; transport protection and restraint applied.

Equipment on the floor

Longitudinal slitting line · automatic cut-to-length lines for transformer lamination · pre-stacking stations · core assembly with hydraulic tilting table · independent automatic packaging line for slit coils.



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CRGO MATERIAL & PRECISION

Specification first. Then steel.

Grade and gauge follow the transformer design — no-load loss target, flux density and project specification.

GRADES	Conventional GOES · Hi-B · laser-scribed
STANDARD GAUGE	0.18 · 0.20 mm
PROJECT GAUGE	0.23 · 0.27 · 0.30 mm
SUPPLY	Original coil · slit coil · laminations
TRACEABILITY	Grade · thickness · coil ID · MTC



FIG 03 CRGO IN REGULAR STOCK — ~3,000 T ACROSS GRADES

<0.02mm

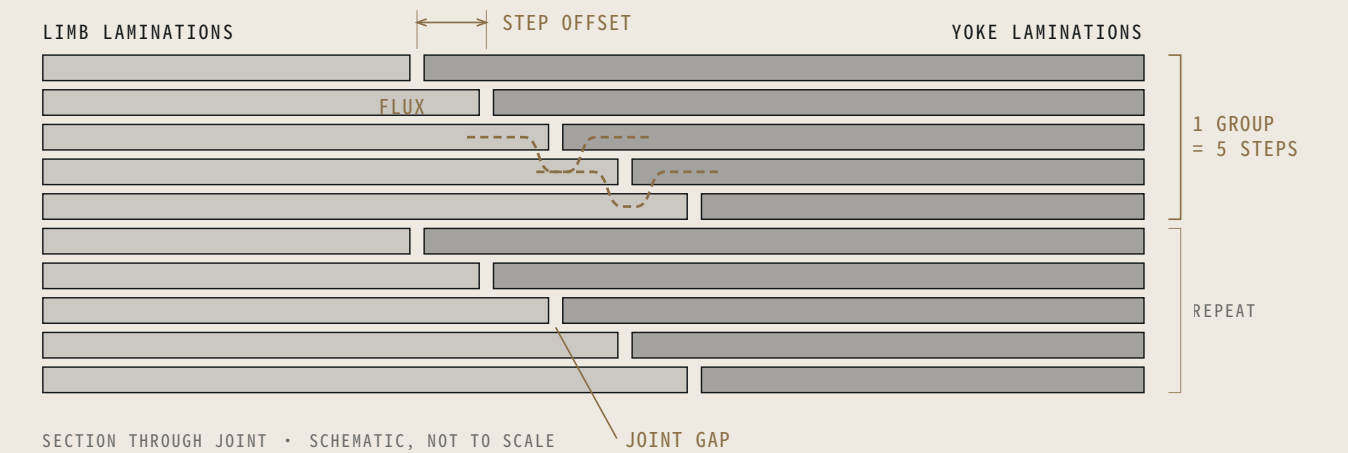
Protects the coating and limits interlaminar current paths and local hot spots.

BURR HEIGHT — CUT EDGES

>97%

Holds the effective core cross-section the design assumed.

STACKING FACTOR — ASSEMBLED STACK



MTC vs finished-core performance

The mill certificate supports material acceptance. Core geometry, joints and assembly also shape the finished magnetic circuit — a core test needs its own agreed conditions.

TRANSFORMER CORES

Oil-immersed. Dry-type. Distribution to power.

Distribution and power describe the application; oil-immersed and dry-type describe the transformer design. We build all four combinations to the approved drawing.



OIL-IMMERSED • POWER

Stacked cores, clamping fitted

Multi-step-lap joints; winding, tank and clamping interfaces to drawing.



DRY-TYPE

Cast-resin & VPI cores

Window geometry held for the downstream winding process.

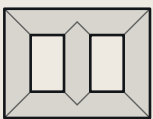


DISTRIBUTION & POWER

3- and 5-limb cores

Batch distribution cores through heavy power cores.

CORE STRUCTURES & SPECIAL CORES



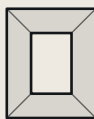
3-phase 3-limb

Stacked, multi-step-lap



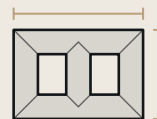
3-phase 5-limb

Reduced yoke height



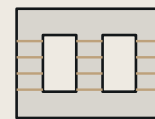
Single-phase

Project window layout



Custom geometry

From your drawing



Reactor cores

Mexico · Brazil



Wound cores

Utility batch lot

Geometry basis. Window height and width, limb centres, limb and yoke widths, stack thickness, step geometry and drawing revision are resolved before the cutting schedule is released.

Drawing formats. PDF, DWG or DXF with drawing number, revision and units. Customer drawings stay confidential and are never used in public marketing.



100^t

SINGLE-CORE CAPABILITY

Large power cores, handled as projects.

Geometry, assembly stability, lifting, temporary support, packing and transport are reviewed as one project before the build begins.

01

Assembly stability

Build sequenced to hold limb alignment and window geometry under the core's own mass.

02

Controlled turning

Hydraulic tilting table for stacking, clamping and turning heavy cores.

03

Planned lifting

Lifting points, bracing and movement route agreed before relocation.

04

Transport restraint

Packing and restraint planned around the finished structure and route.



EXECUTED LARGE-CORE REFERENCES

330^{kV}

EHV transformer core · three-phase, multi-step-lap · assembled

PRJ-01

125^{MVA}

Five-limb power transformer core · assembled

PRJ-02

63^{MVA}

Pre-stacked core laminations · export project

PRJ-04

40^{MVA}

3-phase 3-limb, step-lap · frames fitted

PRJ-09

31.5^{MVA}

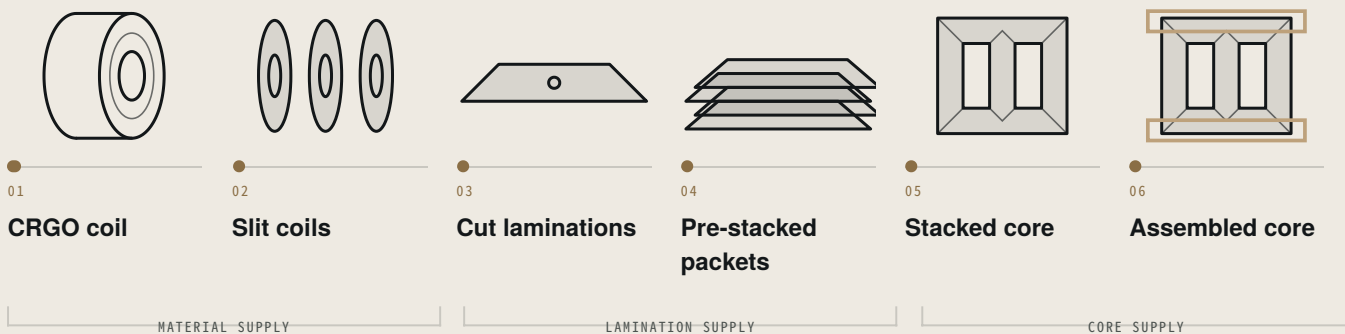
Stepped limb, multi-step-lap · assembled

PRJ-10



SUPPLY FORMATS

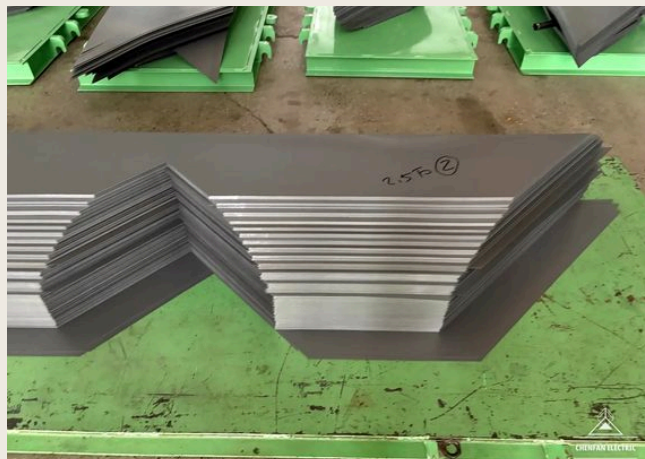
Choose the stage of completion.



CRGO slit coils

Grade, thickness and strip widths to your schedule; protected on an independent automatic packaging line.

WIDTH	Per width schedule & tolerance
THICKNESS	0.18 – 0.30 mm
IDENTIFICATION	Coil tag + MTC



Cut laminations & packets

Limb and yoke shapes in the released step-lap sequence; counted, marked and grouped for your stacking line.

CUT WIDTH	Up to 890 mm
JOINT	Multi-step-lap
BURR	< 0.02 mm

Assembled core

Winding fit-up at your site; clamping fitted where ordered.

Pre-stacked packets

Counted, marked packets for large plants with a stacking line.

SKD

Partially completed sets for large or oversize cores.

CKD

Identified lamination kits for local-content assembly.

PROJECT REFERENCES

13 executed references. One drawing-led method.



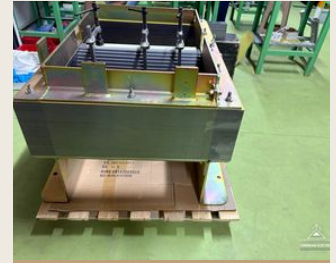
PRJ-01
330 kV EHV transformer core



PRJ-03
Railway traction core · China



PRJ-04
63 MVA pre-stacked packets



PRJ-05
Reactor core · Mexico



PRJ-06
Distribution cores · SE Asia



PRJ-08
Reactor cores · Brazil



PRJ-12
Power core · BTW



PRJ-13
Dry-type core · XD

CUSTOMER REFERENCES

BTW | XD | CEE

Supply experience with large state-owned and international power-equipment groups.

CRGO MATERIAL BASE

**Baosteel | Shougang | Hongwang |
Baotou Weifeng | Nippon Steel | POSCO |
thyssenkrupp**



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— QUALITY & DELIVERY

Checked in process. Packed as the last operation.

01	02	03	04	05
Incoming material	In-process	Stacking & assembly	Final verification	Project records
Grade, thickness, coil ID and MTC against the purchase spec.	Width, length, angle, holes, burr and coating per batch.	Count, step-lap offset, window and clamping interfaces.	Geometry, stacking factor, surface, identification.	Dimensional records, photos and agreed documents.

ISO 9001:2015	MILL TEST CERTIFICATES	DIMENSIONAL REPORTS	PRODUCTION PHOTOGRAPHS	PACKING RECORDS	CERTIFICATE OF CONFORMITY
WITNESS · REMOTE VIDEO · THIRD-PARTY					



01 Protection
Moisture barrier, desiccant and edge protection for the product, season and sea route.



02 Restraint
Frames, cases and lashing sized to hold core geometry under load.



03 Loading
Lifting method and container or flat-rack selection planned against mass and centre of gravity.

FREIGHT	Sea freight · air freight when required · destination-specific restraint
DOCUMENTS	Packing list · commercial invoice · certificate of origin · MTC set
INCOTERMS	EXW · FOB · CIF — named place or port stated in the quotation

KEY SHEET FOR RFQ SCREENING

Specification summary.

MATERIAL		PROCESSING	
TYPE	CRGO / GOES	CTL WIDTH	Up to 890 mm
GRADES	Conventional · Hi-B · laser-scribed	BURR HEIGHT	< 0.02 mm
THICKNESS	0.18 / 0.20 mm · 0.23–0.30 by project	STACKING FACTOR	> 97 %
INVENTORY	~3,000 t regular stock	CAPACITY	~1,500 t / month
STANDARDS	GB/T 2521.1 · IEC 60404-8-7	SLITTING	Longitudinal, to width schedule
TRACEABILITY	Grade · thickness · coil ID · MTC	CUTTING	Automatic CTL · multi-step-lap
CORE		SUPPLY	
APPLICATIONS	Distribution · power · oil · dry-type	FORMATS	Slit coil · laminations · packets · core
STRUCTURES	3-limb · 5-limb · single-phase · custom	KITS	SKD · CKD
JOINT	Multi-step-lap	LEAD TIME	~7 days, regular products
MAX WEIGHT	100 t single core	TERMS	EXW · FOB · CIF
REFERENCES	330 kV EHV · 125 MVA five-limb	RECORDS	MTC · dimensional report · photos · CoC
SPECIAL CORES	Reactor · wound · railway traction	PACKING	Moisture barrier · edge protection · restraint

QUALITY MANAGEMENT SYSTEM

ISO 9001:2015

CERTIFICATE NO. 3050260312122Q · valid until 11 March 2029

REFERENCES BTW · XD · China Electrical Equipment Group (CEE)

- ☐
- Business licence
-
- ☐
- Patent certificates

- ☐
- Equipment list
-
- ☐
- Reference project list

- ☐
- Sample MTC set
-
- ☐
- Packing standard



TECHNICAL REVIEW

Send the drawing. We return the review.

The first reply carries manufacturing feasibility, supply scope, price and schedule. Mark unknown items as open — we return the technical questions before production release.

01 Core drawing — PDF / DWG / DXF, revision	02 Rating & voltage class	03 CRGO grade & thickness, or loss target	04 Supply format — core, packets, laminations, SKD / CKD
05 Quantity & repeat batches	06 Destination port & Incoterm	07 Packing & unloading limits	08 Required delivery date

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BUSINESS / TECHNICAL COORDINATION

WHATSAPP

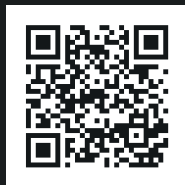
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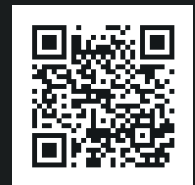
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Full product & capability catalogue, project register and
technical library online. English · Chinese.



ONLINE RFQ

**Steel in. Cores out.**