

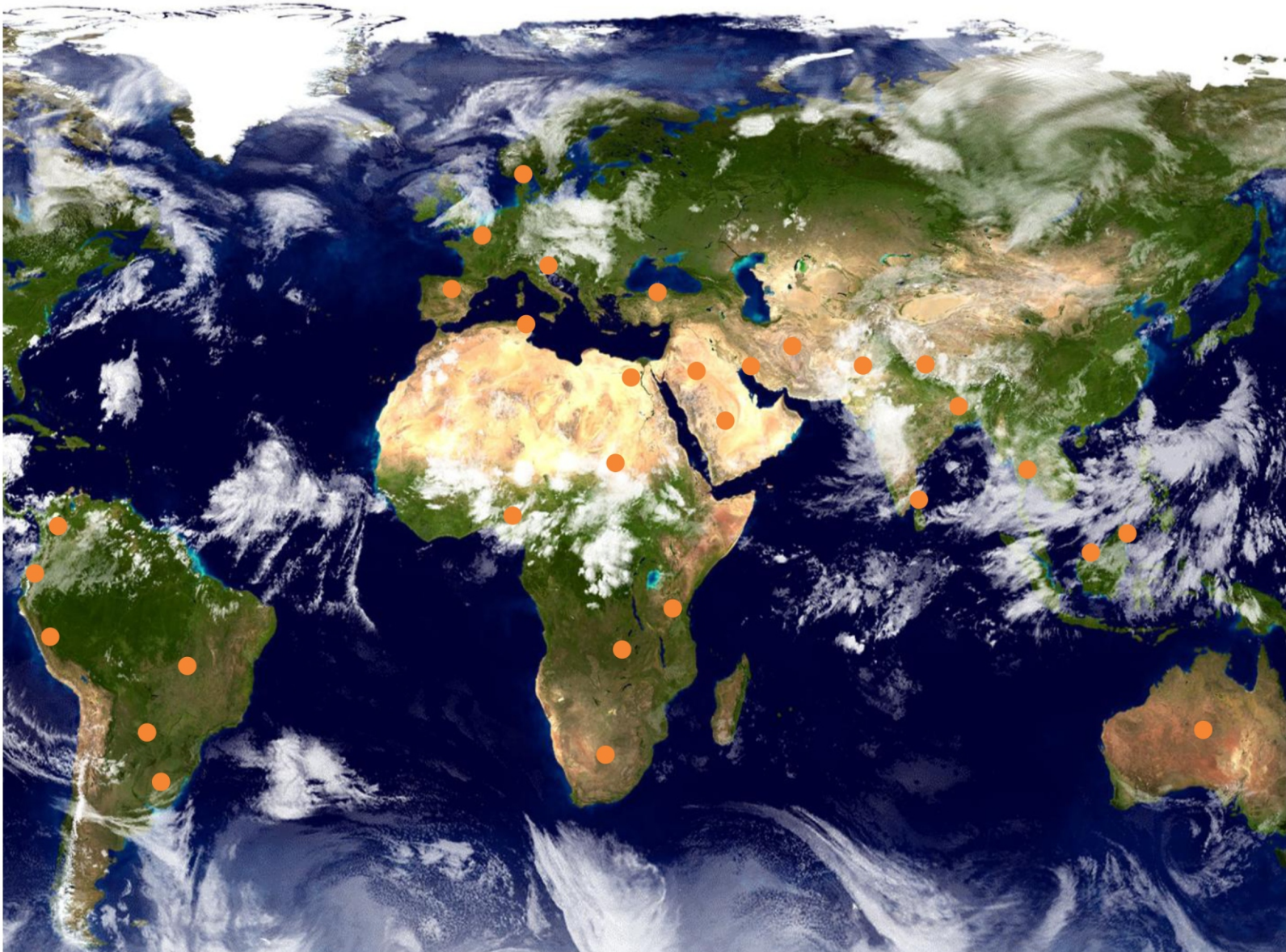
A satellite image of the Earth, showing the Americas and parts of Europe and Africa. A large, stylized 'V' logo is superimposed on the image. The 'V' is composed of several horizontal and diagonal bands of different colors and textures, including a blue sky with clouds, a green landscape, and a brown landscape. The 'V' is positioned in the center of the image, with its top pointing towards the top right and its bottom pointing towards the bottom left.

***We're
Exporting our ideas
to the future... ..***

Vardhman

The name 'Vardhman' indicates:
Progress, Prosperity, Growth, Enhancement, Empowerment. Enrichment... ..

...and our Products
to the World.



Global Footprint: In 35 Countries

Vardhman - The Most Relied Name In CRGO Products

- | | | | | |
|---------------|--------------|-----------------|------------------|--------------|
| 1. Australia | 8. Ghana | 15. Muscat | 22. Peru | 29. Tanzania |
| 2. Bangladesh | 9. Indonesia | 16. Nepal | 23. Saudi Arabia | 30. Thailand |
| 3. Brazil | 10. Iran | 17. Netherland | 24. Sharjah | 31. Tunisia |
| 4. Colombia | 11. Iraq | 18. New Zealand | 25. South Africa | 32. Turkey |
| 5. Egypt | 12. Italy | 19. Nigeria | 26. Spain | 33. U.A.E |
| 6. Ecuador | 13. Kuwait | 20. Pakistan | 27. Sri Lanka | 34. Uruguay |
| 7. France | 14. Malaysia | 21. Paraguay | 28. Sudan | 35. Zambia |

A Habit Called Leadership:

Vardhman Stampings Pvt Ltd (VSPL) is India's fastest-growing Transformer Components manufacturing company, with rapidly expanding global footprints. It also is a prominent presence in the country's Transformer Industry. Backed by state-of-the-art technology, VSPL has capacity to manufacture **more than 50,000 MT per annum – the highest output in India**. And the company views the satisfied opinions and words-of-mouth of its **200-plus long-term, repeat customers** as its strongest promotional methodology. Vardhman is a **Government of India-recognized Star Export House, and the country's most relied name in CRGO Products** – an evolved sum of its experience, expertise, and quality of enterprise. Vardhman believes meeting customer expectations is its solemn duty, and this belief motivates the company to continuously improve on all fronts, and always give its best.

- ISO 9001:2008 (DNV, Netherlands)
- OHASAS 18001: 2007 (DNV, Netherlands)
- Government of India-recognized Star Export House

Product Range:

- Built Core
- Radiators
- Toroidal Core
- CRGO Slit Rolls
- Shunt Reactor
- Transformer Lamination
- Current Transformers
- Tank/Yoke Shunt
- Wound Core

A Constant Called Change:

Carrying long tradition of excellence in business, Vardhman believes that continuous growth is the only way of life, and the company has been prospectively expanding their corporate horizons, banking on its varied experiences. In 2013, Vardhman began a concerted drive to widen its presence globally, by **starting export to 20 new strategic markets overseas**. This took its **overall span of export to more than 35 countries**. And consequentially, it began enhancing its product range to meet worldwide requirements and market trends. **It has set up a new manufacturing plant in Thailand – Vardhman Trafo-Components (Thailand) Company Limited**, to value-add the manufacturing capabilities of its state-of-the-tech factories in various strategic parts of India, and to better serve its customers in South East Asian countries. Alongside this new, concentrated focus on overseas markets, Vardhman began trading transformer items other than CRGO products globally, and **established a new single-window trading arm, VEL Elecsteel DMCC, in Dubai**.

Areas of Activity:

- Engineering
- Packaging
- Transformer Components
- Metal Trading
- Pharmaceuticals



Plant 1 - India



Plant 2 - India



Plant - Thailand

An Incubator for Excellence:

LIST OF TESTING EQUIPMENT

Sr. No.	Description	Make
1	Single Sheet Tester	Dr. Brockhaus , Germany
2	Ring Core Tester	Dr. Brockhaus , Germany
3	Epstein Tester	Dr. Brockhaus , Germany
4	Franklin Tester	Dr. Brockhaus , Germany
5	Single Sheet Tester	Soken, Japan
6	Power Analyzer	Yokogawa WT-230, Japan
7	Particle Measuring System	Lasair, USA
8	Instrument Transformer Test Set	Source - Domestic
9	Standard CT (5 to 3000/5A, 0.05 CI)	Source - Domestic
10	Current Source 3600A, 12 KVA	Source - Domestic
11	HV Tester – 5 KV	Source - Domestic
12	Resistance Meter (2 mohms – 20 kohms)	Source - Domestic
13	Stacking Factor Testing Machine	Source - Domestic

VARDHMAN - Dr. BROCKHAUS Magnetic Material Testing Laboratory



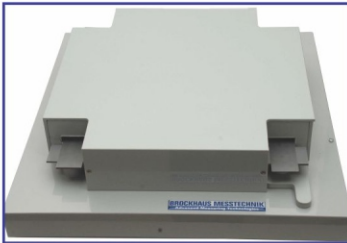
Single Sheet Tester



Ring Core Tester



Franklin Tester



Epstein Tester

Other Testing Equipments



Power Analyzer



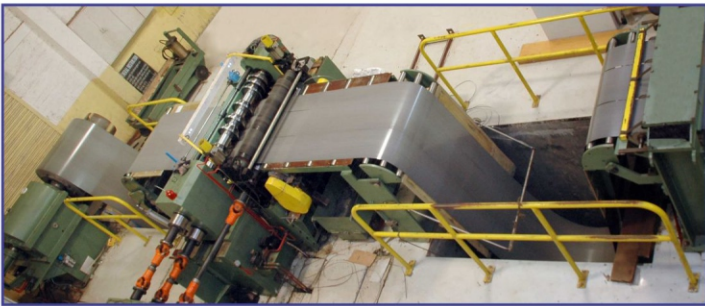
Digital Measuring Scale



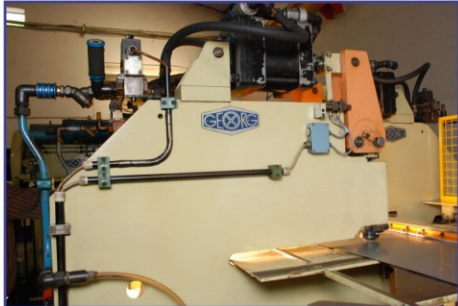
Particle Measuring System

LIST OF MAJOR MACHINERY

Sr. No.	Description	Capacity	Nos
1	Slitting line	1000mm width	3 nos
2	Slitting line	1200mm width	2 nos
3	Cut to length line with punching and V notching	1000mm x 5500mm	2 nos
4	Cut to length line with punching and V notching	640mm x 5500mm	1 nos
5	Cut to length line with punching and V notching	400mm x 2500mm	4 nos
6	Cut to length line with punching and V notching	250mm x 2000mm	1 nos
7	Cut to length line	400mm x 2500mm	1 nos
8	Gap Wound core Machine	315mm x ∞	1 nos
9	Bell Type Furnace	1.5MT / 3MT	2 nos
10	Toroid Winding Machine - for CT's and PT's	ID: 150mm OD: 1000mm Height: 200mm	1 nos
11	Toroid Tapping - for CT's and PT's	ID: 150mm OD: 1000mm Height: 200mm	1 nos
12	Shunt Reactor Core Cutting Line	Upto 1100mm OD & 300mm Height	1 nos
13	Winding Machine for Toroidal Core	CT's / PT's and Metering Device	5 nos



CNC Slitting Line - 1000 mm width



Cut to length Line - 1000 mm width



Cut to length Line - 1000 mm width



Cut to length Line - 640 mm width



Cut to length Line - 400 mm width



Gap Wound Core Machine

A Tradition Called Innovation:

From inception, Vardhman was spearheaded by a spirit of innovation and thrust for excellence. And over the years, this translated into various accolades, accreditations and achievements.

Here is a quick glimpse:

Vardhman:

- Is certified OHASAS 18001:2007 by DNV, Netherlands – the first and only Indian Lamination Processor to be so.
- Is approved in the 400 kV Class by PGCIL, and is joining the elite ranks of 765 kV Class-approved.
- Has received NTPC (National Thermal Power Corporation Limited) approval for processing Transformer Laminations up to 1000 mm width and 5500 mm length.
- Has Three-Star Rating in Six Sigma audit, which is maintained to date.
- Has a Government of India - recognized Star Export House status.
- Has installed Dr. BROCKHAUS Quality Lab, comprising of FRANKLIN Tester, Single Sheet Tester, Ring Core Tester, etc.
- Has the highest number of CNC Lines (15) in India to process entire range of Lamination.
- Has the most advanced technology and the highest production capacity in India.
- Has registered the highest quantity of export in Laminations for Power Transformers in India.
- Has exported Lamination for Power Transformers with highest ratings (20, 50, 63, 100 & 315 MVA), in India.

A Continuum Called The Future:

The future of Vardhman is predicated on the commitment and capabilities of every one of its individual members. And the collective vision that powers their imagination, and fuels their endeavors everyday.

They must work towards a day and place beyond today, but THROUGH today.

In the coming decades, Vardhman will expand its founding philosophy of Global eminence seamlessly. It will think beyond all frontiers, beyond limitations of the Present, beyond today's perceptions and prejudices, and challenge the future – all the while, retaining respect for humankind everywhere.

Vardhman - The Most Relied Name In CRGO Products

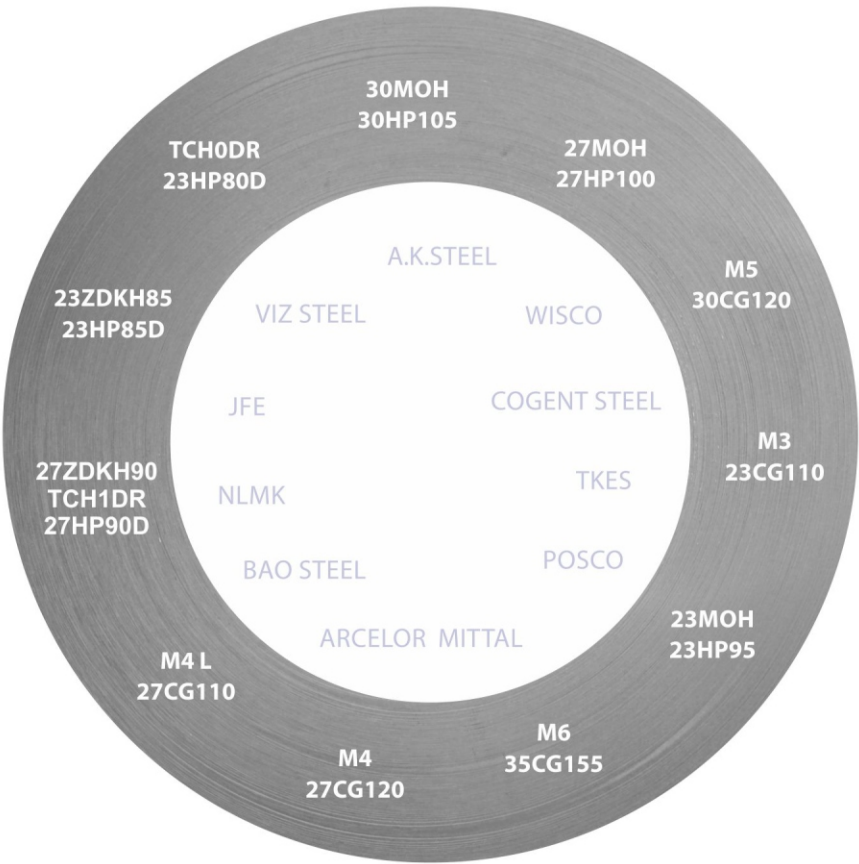
To Draw Your Best Options in Superior Raw Materials:

Raw Materials:

VSPL is an authorized importer of Cold Rolled Grain Oriented (CRGO) Steel (the basic raw material for manufacturing Lamination and Wound Cores) from reputed overseas mills in various grades are imported in the form of mother coils. The company maintains extensive stocks of all grades, to meet the customer's qualitative and quantitative requirements.

The quality cycle at Vardhman begins with optimal quality Raw Material imported from mills around the world.

- A.K. STEEL
- ARCELOR MITTAL
- BAOSHAN IRON AND STEEL CO. LTD (BAO STEEL)
- JFE STEEL CORPORATION
- NOVOLIPETSK STEEL (NLMK)
- POSCO
- TATA STEEL (UK) LTD. (COGENT STEEL)
- THYSSENKRUPP
- VIZ STEEL
- WUHAN IRON AND STEEL CO. LTD (WISCO)



A Product Range Called The Best:

CRGO Slit Rolls:

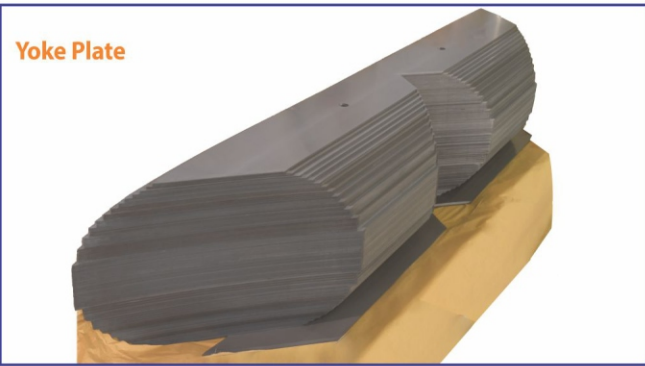
Range: 10 mm to 1000 mm width



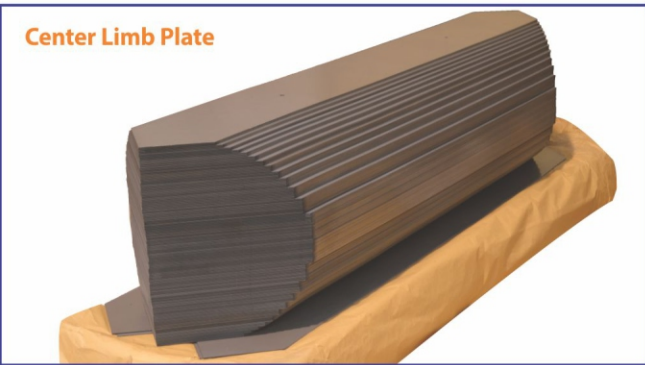
C.R.G.O. Slit Rolls

Transformer Laminations:

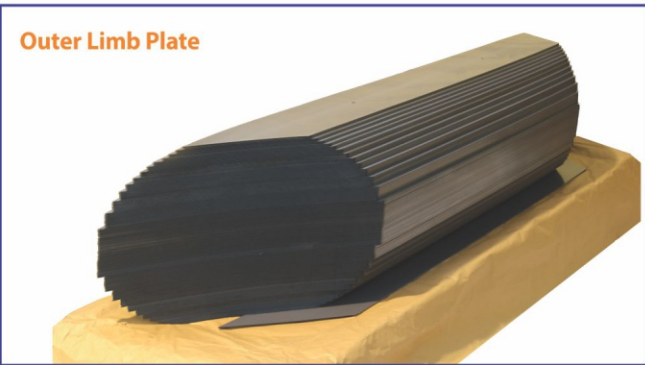
Range: Up to 1000 mm wide and 5500 mm long.



Yoke Plate



Center Limb Plate



Outer Limb Plate

Custom-Made Product Solutions

- Reactor Core
- Locomotive Core
- Horizontal Step-Lap Core in 45° & 90° with option of 5/6/7 steps
- Vertical Step-Lap Core in 45° & 90° with option of 5/6/7 steps
- Over-Lap Core in 45° & 90°



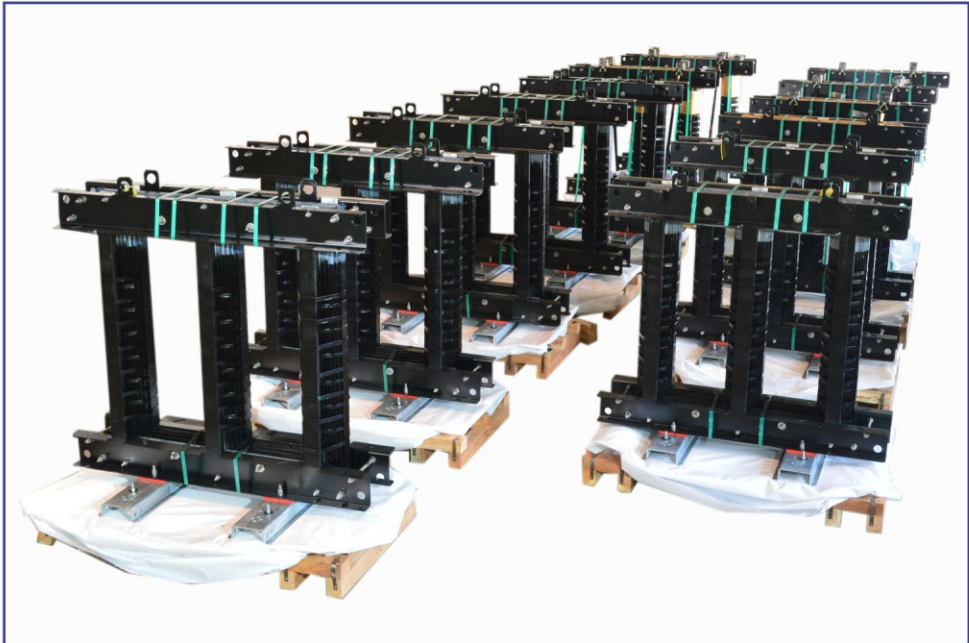
Step - Lap Core



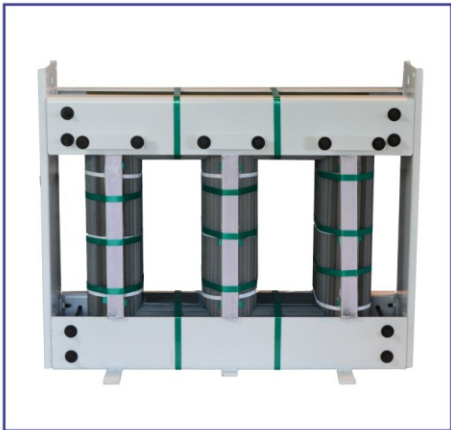
Transformer Lamination

Built Core / Assembled Core:

Range: Up to 50 MVA



Cores for Cast Resin Transformers



Core for Oil Cooled Transformer



Vardhman - The Most Relied Name In CRGO Products

Radiators:

Range: Up to 520 mm width in thickness of 1.0 mm and 1.25 mm



Radiators:

- Header Type Radiator
- Hot-Dip Galvanized Radiator
- Goose-Neck Type Radiator
- Special Design Radiator
- Offset Radiator

Technical Specification:

VSPL has an advance and Automatic Plant for manufacturing of Transformers, Radiators which is fully equipped to meet highest quality requirements of Radiators. It offers wide range of Radiators like Square Flange (detachable/Type F), T Joints, Double-entry headers etc in Width 226MM, 300MM, 375MM and 520MM & up to 4000MM long (Thickness 1.00MM & 1.25MM). We can also supply Offset type Radiators in 520MM Width.

Painting:

The standard radiators are shot blast-cleaned and given two coats each of Red Oxide Zinc Chrome primer and Enamel finish paint (providing for a total dry film thickness of 70 to 100 micro-meters) on the outside, and one coat of heat-resistant varnish on the inside. Other external primer/finish coating such as Yellow Zinc Chromate primer, Zinc Rich primer, Micaceous Iron Oxide primer, Epoxy primer/finish, polyurethane finish, Spray Galvanized etc, can be provided, as required.

QC/Testing:

Routine pressure testing (under water) at 2 kg/cm2 for 30 minutes is carried out for all radiators. Type tests like 'hot-oil sweat' and 'vacuum' withstand tests are carried out periodically or against specific requests by the customer. We are fully equipped for testing of radiators as per IEEMA and DIN standards.

- All instruments for dimension measurement
- Thickness tester
- Dry film thickness tester for paint, lacquer and galvanize.

Vardhman - The Most Relied Name In CRGO Products

Cooling Chart

Width Center mm	300mm cooling Surface m	35	40	45	50	55	60	Wt. per sec. kg	Oil/ section in Liters	Width Center mm	520mm cooling Surface m	35	40	45	50	55	60	Wt. per sec. KG	Oil/ section in Liters
600	0.41	119	147	179	209	244	273	3.23	1.49	600	0.71	207	256	310	361	423	473	5.59	2.18
700	0.48	132	161	191	222	258	293	3.78	1.70	700	0.84	230	278	331	385	447	507	6.56	2.50
800	0.55	149	176	208	239	275	299	4.34	1.85	800	0.96	258	305	360	414	477	519	7.52	2.77
900	0.62	166	189	218	246	287	307	4.89	2.01	900	1.08	288	328	378	426	497	532	8.48	3.05
1000	0.69	183	210	238	267	302	317	5.44	2.17	1000	1.20	317	365	412	463	523	549	9.44	3.32
1100	0.76	198	226	257	288	325	362	6.00	2.33	1100	1.32	343	392	446	500	563	628	10.40	3.59
1200	0.83	211	245	276	311	351	390	6.55	2.48	1200	1.45	366	424	479	540	609	676	11.36	3.86
1300	0.91	227	262	297	332	375	417	7.11	2.64	1300	1.57	393	455	514	575	650	723	12.32	4.13
1400	0.98	240	278	314	353	397	441	7.66	2.80	1400	1.69	417	482	544	612	689	765	13.28	4.41
1500	1.05	252	295	331	361	420	466	8.21	2.95	1500	1.81	437	511	574	626	729	807	14.24	4.68
1600	1.12	267	310	349	392	442	489	8.77	3.11	1600	1.94	463	536	605	679	765	847	15.20	4.95
1700	1.19	279	324	366	411	461	512	9.32	3.27	1700	2.06	483	562	634	712	799	888	16.16	5.22
1800	1.26	292	339	382	428	483	533	9.88	3.42	1800	2.18	507	588	662	741	837	924	17.12	5.49
1900	1.33	305	356	399	446	502	555	10.43	3.58	1900	2.30	528	616	691	774	871	963	18.08	5.76
2000	1.40	318	357	413	464	522	576	10.99	3.74	2000	2.43	551	620	717	805	906	998	19.04	6.04
2100	1.47	328	382	429	481	537	597	11.54	3.89	2100	2.55	569	661	744	834	931	1035	20.00	6.31
2200	1.54	340	396	445	497	560	617	12.09	4.05	2200	2.67	589	686	771	861	970	1069	20.96	6.58
2300	1.61	352	410	459	514	579	637	12.65	4.21	2300	2.79	610	710	795	891	1003	1104	21.92	6.85
2400	1.68	367	423	475	530	594	658	13.20	4.36	2400	2.92	636	733	824	918	1029	1141	22.88	7.12
2500	1.75	377	435	489	547	611	675	13.76	4.52	2500	3.04	653	753	847	948	1059	1170	23.84	7.40
2600	1.82	389	446	477	563	625	695	14.31	4.68	2600	3.16	674	774	826	975	1083	1205	24.80	7.67
2700	1.89	399	459	518	579	646	715	14.86	4.83	2700	3.28	691	796	898	1003	1119	1239	25.76	7.94
2800	1.96	412	472	533	597	663	734	15.42	4.99	2800	3.40	713	818	923	1035	1150	1273	26.73	8.21
2900	2.03	422	485	546	610	680	752	15.97	5.15	2900	3.53	731	840	946	1058	1179	1303	27.69	8.48
3000	2.11	435	494	578	627	698	792	16.53	5.30	3000	3.65	754	857	1001	1087	1209	1374	28.65	8.75

Shunt Reactor

Range: Up to 400 MVAR – 1200 kV class.

- Low, Medium & High voltage shunt reactor cores up to 400 MVAR, 765 KV class as per customer specification.
- Radially stacked shunt reactor cores made of high quality CRGO.
- Separate cakes OR entire column.
- High Quality ceramic spacers to maintain gap between cakes.
- Guaranteed Stacking factor of 95 – 96%.
- High Quality Transparent Epoxy to produce cakes.



Reactor Cake with Ceramics



Stacked Reactor Column

Tank / Yoke Shunt

Range: Length – 100 to 8000 mm, Width – 50 to 500 mm, Thickness – 15 to 100 mm / Up to 1200 kV class

Tank Shunts / Flux Collectors:

A recent addition to the VSPL product line, Tank Shunts / Flux Collectors (made of CRGO Steel) are used mainly in large transformers.

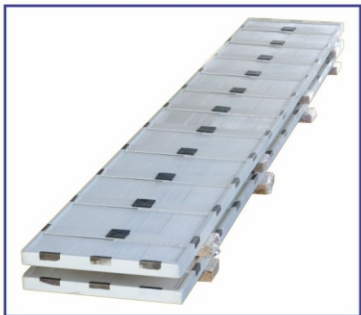
Special Features:

- Special design reduces losses in large Power Transformers
- Reflects the leakage flux of Transformer windings
- Effectively controls structural stray losses
- Offers high permeable path to leakage flux, acts as a shield
- Offers higher efficiency compared to non-magnetic shields
- Enables almost-nil (negligible) losses, if designed with lower watts/kg from CRGO Steel

Edgewise Shunt vs Widthwise Shunt:

- The Silicon Steel sheets/strips are perpendicular to the tank wall and winding in Edgewise Shunt.
- Higher stacking factor & uniform distance from the tank wall as compared to widthwise shunts.
- No non magnetic gaps in the edgewise shunt for incident flux.
- Leakage flux incident on thickness of sheets (edges) resulting in higher effective permeability of flux collector and negligible eddy losses for edgewise shunts.

Bespoke Shapes, Sizes & Designs:



315 MVA Tank Shunt



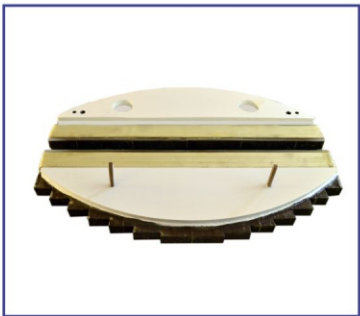
160 MVA Tank Shunt



315 MVA Yoke Shunt



200 MVA Yoke Shunt

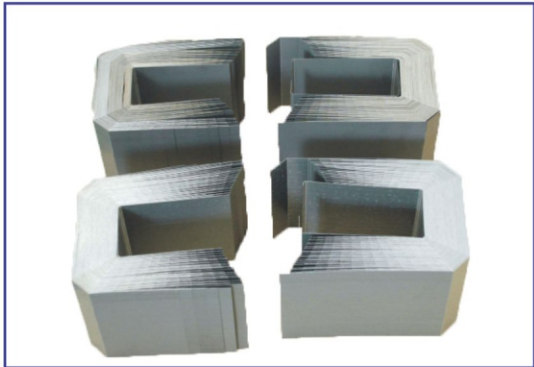


120 MVAR Yoke Shunt



Wound Core

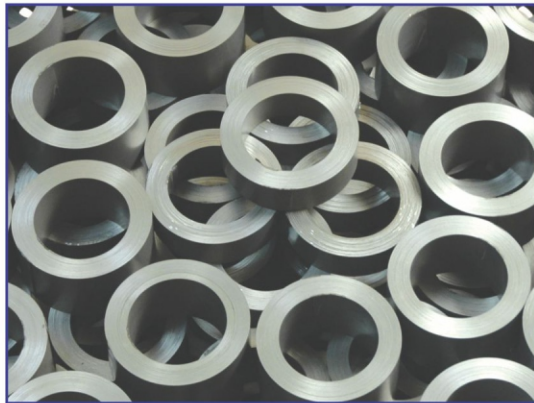
Range: From 1 kva to 1500 kva or Up to 315 mm width



- DUO Core
- Distributed Gap Core
- Diverging Distributed Gap Core
- E Core



Torroidal Core:



Inner Dia: 50 mm
Outer Dia: 900 mm
Height: Up to 150 mm

- For CT'S/PT'S & Metering Devices
- Round/Donut Shape Core
 - Rectangular Core
 - Step Core

Bushing Type Current Transformers:

Rated Primary Current: 20 to 3500 A
Rated Secondary Current: 1A, 5A
Inner Dia: 100 mm
Outer Dia: Up to 1200 mm
Height: Up to 150 mm



STANDARD TOLERANCE – Cut Core / Slit Rolls

Sr. No.	Characteristics	Acceptance Limit / Criteria
1	Width (mm)	0 to 100 (+/-0.15) 100 to 130 (+/-0.20) 230 to 380 (+/-0.25) 380 to 580 (+/-0.40) 580 to above (+/-0.50)
2	Thickness (mm)	±0.03 mm
3	Edge Burrs (Micron) Thickness – mm Up to .23 .27 to .30 .35	Burrs Micron 10 10 15
4	Length (mm)	Upto 350 (+0.00 / -0.30) 350 to 1000 (+0.00 / -0.60) 1000 to 2000 (+0.00 / -1.00) 2000 and above (+0.00 / -2.00)
5	Edge Camber	For the material with a width greater than 150 mm, edge camber shall not exceed 0.9 mm for a length 2 meter
6	Wave Factor (i.e. Deviation from flatness)	For a material of width greater than 150mm the deviation from flatness expressed as a percentage shall not exceed 1.5%
7	Angle	+/- 5 Minutes
8	Stack Thickness of individual stack except centre step Unclamped	+1 - 0 mm

QUALITY NORMS - RAW MATERIAL

Sr. No.	Tests	Acceptance Norms
1	Bend Test or Brittleness Test	Min. 3 Bends 0-180° Bending of Sample (Size: - 305 x 30mm)
2	Stacking Factor Test	As per Diff. Thickness (mm) 0.23 – 95.5% 0.27 – 96.0% 0.30 – 96.0% 0.35 – 96.5%
3	Surface Insulation Resistivity Test as per Franklin Test Method	Min. 10 Ohm/Cm ²
4	Core Loss Test (By Epstein Square Test Method)	W/kg. at specific Flux Density for diff. Grades from coils (At start and end of the coil)
5	A/c Permeability Test	Min. 1.75T at 800 A/m & 50 Hz for conventional G.O. Steel and Min. 1.85 T at 800 A/m & 50 Hz For High Permeability G.O. Steel.

Although we follow IS Standards, however our plant works at the most upgraded technology with far ahead stricter quality norms than above mentioned standards to ensure the best of customer's needs.

FLUX DENSITY V/S LOSSES @ 50 Hz

Flux Density	M3 23CG110	M4 L 27CG110	M4 27CG120	M5 30CG120	M6 35CG155	23MOH 23HP95	27MOH 27HP100	30MOH 30HP105	23TCH0DR / 23HP80D	23ZDKH85 / 23HP85D	27ZDKH90/ 27TCH1DR 27HP90D
1.30	0.53	0.56	0.58	0.62	0.74	0.50	0.53	0.58	0.43	0.45	0.49
1.35	0.58	0.60	0.63	0.67	0.81	0.54	0.57	0.63	0.47	0.48	0.53
1.40	0.62	0.66	0.68	0.72	0.88	0.58	0.62	0.67	0.51	0.52	0.57
1.45	0.67	0.71	0.74	0.78	0.96	0.62	0.67	0.72	0.55	0.56	0.61
1.46	0.68	0.72	0.75	0.79	0.97	0.63	0.68	0.73	0.57	0.57	0.62
1.48	0.71	0.75	0.78	0.82	1.01	0.65	0.70	0.76	0.59	0.59	0.64
1.50	0.73	0.77	0.80	0.84	1.04	0.67	0.72	0.78	0.61	0.61	0.66
1.52	0.75	0.80	0.83	0.87	1.08	0.69	0.74	0.80	0.63	0.62	0.68
1.54	0.78	0.82	0.86	0.90	1.11	0.71	0.76	0.82	0.64	0.64	0.70
1.56	0.81	0.85	0.89	0.93	1.15	0.73	0.79	0.85	0.66	0.66	0.72
1.58	0.84	0.88	0.93	0.96	1.20	0.75	0.81	0.87	0.68	0.68	0.74
1.60	0.87	0.91	0.96	0.99	1.25	0.78	0.84	0.90	0.70	0.71	0.76
1.62	0.91	0.95	1.00	1.03	1.30	0.80	0.87	0.92	0.72	0.73	0.78
1.64	0.95	0.98	1.04	1.06	1.35	0.83	0.90	0.95	0.75	0.76	0.81
1.66	1.00	1.02	1.09	1.11	1.42	0.86	0.93	0.98	0.78	0.78	0.83
1.68	1.05	1.06	1.14	1.15	1.49	0.89	0.97	1.02	0.79	0.81	0.86
1.70	1.10	1.10	1.20	1.20	1.55	0.93	1.00	1.05	0.80	0.84	0.88
1.72	1.17	1.16	1.26	1.27	1.63	0.97	1.06	1.09	0.84	0.88	0.91
1.74	1.24	1.21	1.34	1.34	1.71	1.03	1.11	1.14	0.88	0.92	0.95
1.76	1.31	1.27	1.41	1.41	1.80	1.09	1.17	1.20	0.92	0.96	0.99
1.78	1.39	1.33	1.49	1.50	1.89	1.16	1.23	1.27	0.96	0.95	1.03
1.80	1.48	1.39	1.57	1.59	1.98	1.25	1.31	1.36	1.02	1.08	1.08

These results were measured in Vardhman-Dr. Brockhaus Magnetic Material Testing Laboratory (one of the few such labs in the Industry). Today, much to our pride, they are widely adopted and followed as industry standards.

Values are for reference only.
Above values are **watts/kg @ 50 Hz**.

FLUX DENSITY V/S LOSSES @ 60 Hz

Flux Density	M3 23CG110	M4 L 27CG110	M4 27CG120	M5 30CG120	M6 35CG155	23MOH 23HP95	27MOH 27HP100	30MOH 30HP105	23TCH0DR / 23HP80D	23ZDKH85 / 23HP85D	27ZDKH90/ 27TCH1DR 27HP90D
1.30	0.70	0.72	0.77	0.82	0.93	0.63	0.70	0.77	0.57	0.59	0.65
1.35	0.75	0.78	0.83	0.89	1.00	0.68	0.76	0.83	0.62	0.63	0.71
1.40	0.81	0.85	0.90	0.96	1.08	0.74	0.82	0.89	0.67	0.69	0.76
1.45	0.87	0.92	0.98	1.03	1.17	0.79	0.88	0.96	0.72	0.74	0.82
1.46	0.89	0.93	1.00	1.04	1.18	0.80	0.90	0.98	0.73	0.75	0.83
1.48	0.91	0.97	1.03	1.07	1.22	0.83	0.93	1.01	0.75	0.77	0.85
1.50	0.94	1.00	1.06	1.10	1.26	0.85	0.95	1.04	0.77	0.79	0.88
1.52	0.97	1.03	1.10	1.14	1.30	0.88	0.98	1.07	0.80	0.82	0.90
1.54	1.00	1.06	1.14	1.17	1.34	0.90	1.01	1.10	0.82	0.84	0.93
1.56	1.04	1.10	1.18	1.21	1.37	0.93	1.04	1.13	0.85	0.87	0.95
1.58	1.08	1.14	1.22	1.25	1.42	0.96	1.08	1.16	0.87	0.90	0.98
1.60	1.12	1.18	1.26	1.29	1.46	0.99	1.11	1.20	0.90	0.92	1.00
1.62	1.17	1.22	1.31	1.33	1.51	1.03	1.15	1.23	0.93	0.95	1.04
1.64	1.22	1.27	1.36	1.37	1.56	1.06	1.19	1.27	0.96	0.98	1.07
1.66	1.28	1.31	1.42	1.43	1.61	1.10	1.23	1.31	0.99	1.02	1.10
1.68	1.35	1.37	1.49	1.48	1.67	1.14	1.27	1.35	1.02	1.05	1.14
1.70	1.42	1.42	1.56	1.55	1.73	1.18	1.32	1.39	1.05	1.09	1.17
1.72	1.50	1.48	1.64	1.62	1.79	1.24	1.38	1.44	1.09	1.14	1.21
1.74	1.59	1.55	1.73	1.71	1.87	1.31	1.44	1.50	1.13	1.19	1.26
1.76	1.69	1.62	1.82	1.79	1.95	1.39	1.52	1.57	1.18	1.24	1.31
1.78	1.78	1.69	1.92	1.90	2.03	1.49	1.60	1.66	1.25	1.30	1.36
1.80	1.89	1.77	2.02	2.01	2.12	1.60	1.69	1.77	1.29	1.38	1.43

These results were measured in Vardhman-Dr. Brockhaus Magnetic Material Testing Laboratory (one of the few such labs in the Industry). Today, much to our pride, they are widely adopted and followed as industry standards.

Values are for reference only.
Above values are **watts/kg @ 60 Hz**.

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Corporate Office:

S - 2, Murlidhar Complex, Near Snehkunj Bus Stand, S. M. Road, Ambawadi, Ahmedabad - 380 015, Gujarat, India

Phone: + 91-79-2646 9609, 2656 2689 | **Fax:** + 91-79-26461108 | **Email:** crgo@vspl.co.in

Plant - 1:

S.N. 132/C, Budasan Village, Irana Road, Via Kalol,
Post: Karan Nagar - 382 721
District Mehsana (N.G.), Gujarat, India

Plant - Thailand:

Vardhman Trafo-Components (Thailand) Company Limited
TFD INDUSTRIAL ESTATE 1/12 Moo,
Tambol thasa-an Amphur Bang Pakong Chachoengsao
Province-24130
Thailand

Plant - 2:

S. No. 439/1+2, Village Matoda, Sarkhej-Bavla Highway,
Taluka Sanand, Dist. Ahmedabad - 392213, Gujarat, India

Office - Dubai:

VEL ELEC STEEL DMCC
501, HDS Tower, Plot no. F2
Jumeirah Lakes Tower, Dubai
P.O. Box - 113002, Dubai (U.A.E.)