



**INTERNATIONAL
STEELS LIMITED**



COLD ROLLED STEEL



**LARGEST FLAT STEEL MANUFACTURER
AND EXPORTER IN PAKISTAN**



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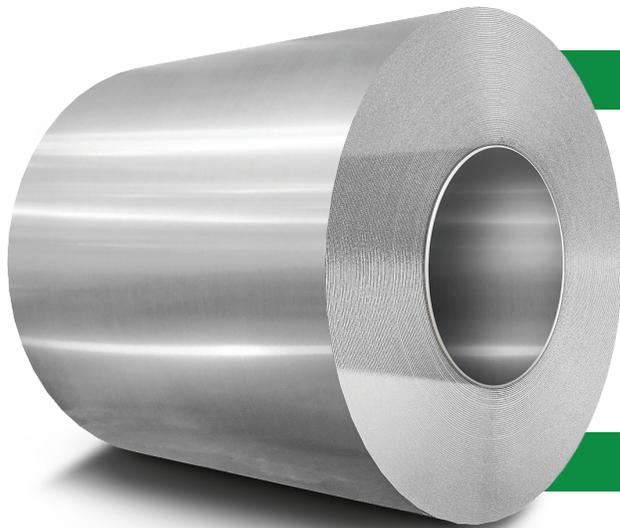
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Cold Rolled Steel

ISL produces premium quality Cold Rolled Steel (Commonly known as Cold Rolled Coil “CRC”) on a modern and advanced Cold Rolling Mill designed by SMS Siemag, Germany. This state-of-the-art facility produces high quality steel products with outstanding finish and workability. ISL’s cold rolled steel is highly valued by customers in the automobile, home appliances, furniture, drum, tube, filter, tin plate and various other industrial segments.

ISL’s CRC is provided in a range of product specifications, ranging from drawing to structural, to meet our customers’ specific requirements. After the recent expansion, ISL has the capacity to produce 1,000,000 MT of CRC annually.



MAX. WIDTH & THICKNESS

- 1,250 mm
- 0.15 mm - 3.00 mm
(0.006” - 0.118”)

GRADES

As per ASTM A1008, JIS G3141 and equivalent standards

PROPERTIES

- Annealed, Skin-passed
- As Rolled
- Bright and Dull Finish
- Oiled / Unoiled





Manufacturing Process

01 PICKLING

Hot rolled coils are descaled with hydrochloric acid

03 REWINDING / ELECTROLYTIC CLEANING*

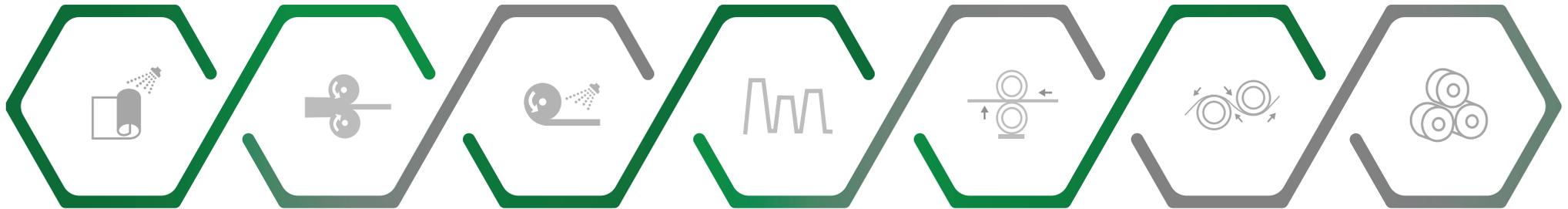
To reduce tension, coils are rewound before annealing

05 SKIN-PASSING

Skin-passing enhances the mechanical properties, surface flatness and texture of the steel. If required, electrostatic oil is applied to the coils at this stage, in order to prevent oxidation

07 PACKING

Packing is customizable according to customer requirements



02 COLD ROLLING

Pickled coils are reduced to the desired thickness by cold rolling

04 ANNEALING

Coils are heated and then cooled in a controlled atmosphere to achieve the required properties of the steel grade being produced

06 TENSION LEVELING

Tension leveler removes unwanted curvature formed on steel coil as a result of continuous rolling and ensures flatness through elongation of steel. Electrostatic oil is applied to the coils at this stage to prevent oxidation

*Electrolytic Cleaning Line (ECL) improves the surface quality of our products specifically for automotive and appliances sector by cleaning the remaining rolling emulsion and iron fines.

Manufacturing Standards

Our products are manufactured as per ASTM A1008, JIS G3141 and equivalent standards related to commercial and structural grades in sheets and coils.



Production Facilities

Located in the heart of Pakistan's largest business hub - Karachi and in close proximity of the sea port, ISL's cold rolled steel manufacturing facility has a production capability of 1,000,000 MT per annum.





Grades and Specifications

Type	Japanese Standard	Grades	Chinese Standard	Grades	Automobile Standard	Grades	American Standard	Grades	ISO Standard	Grades	European Standard	Grades	Applicable Nominal Thickness	Standard Width Available Before Slitting
Commercial	JIS G3141	SPCC SPCC 1 SPCC 4 SPCC 8					ASTM A1008	CS Type A/B/C	ISO3574	CR1	EN10130	DC01 DC03	0.006"-0.118" (0.15 - 3.00 mm) 0.006"-0.118" (0.15 - 3.00 mm) 0.027"-0.078" (0.70 - 2.00 mm) 0.006"-0.118" (0.15 - 3.00 mm)	29.53" - 49.21" (750 - 1,250 mm)
Automotive / Drawing	JIS G3141	SPCE SPCD SPCG					ASTM A1008	DDS EDDS			EN10130	DC04 DC05 DC06	0.019"-0.098" (0.50 - 2.50 mm) 0.019"-0.098" (0.50 - 2.50 mm) 0.019"-0.098" (0.50 - 2.50 mm)	
	JIS G3135	SPFC340 SPFC370 SPFC390 SPFC440 SPFC490											0.023"-0.118" (0.60 - 2.00 mm)	
					TSG3100G	SPC270C SPC270D SPC270E SPC270F SPC270G			ISO3574	CR2 CR3 CR4 CR5			0.019"-0.102" (0.50 - 2.60 mm)	
					JFS A 2001	JSC270C JSC270D JSC270E JSC270F JSC270G								
Structural			GB / T 700	Q195 Q215A Q215B Q235A Q235B Q235C Q235D Q275A Q275B Q275C Q275D			ASTM A1008	SS38 SS40 SS50 Class 1 SS80 Class 1						
Non-Grain Oriented Electrical Steel			GB / T 2521	50W800									0.019" (0.50 mm)	
				35W210 / 230 / 250 / 270 / 300 / 360 / 440									0.013" (0.35 mm)	
				50W210 / 250 / 270 / 290 / 310 / 350 / 400 / 470 / 600 / 1,000									0.019" (0.50 mm)	
				65W310 / 350 / 400 / 470 / 530 / 600 / 800									0.025" (0.65)	
Tin Mill Black Plate (TMBP)	JIS G3303	TMBP MR-T2 TMBP MR-T3 TMBP MR-T4											0.007" - 0.012" (0.18 - 0.31 mm) 0.007" - 0.012" (0.18 - 0.31 mm) 0.007" - 0.012" (0.18 - 0.31 mm)	
Weather Resistant Steel	JIS G3125	SPA-C	TB / T 1979	05CuPCrNi									0.059" - 0.098" (1.50 - 2.50 mm)	
Carbon Steel Grade							AISI	AISI 1006 AISI 1008 AISI 1010 AISI 1012 AISI 1015 AISI 1020 AISI 1050 AISI 1045 AISI 1078					- - - - - - - 0.023" - 0.078" (0.70 - 2.00 mm) 0.023" - 0.078" (0.70 - 2.00 mm) -	29.53" - 39.37" (750 - 1,000 mm)

*Thickness tolerance: 1/2 of ASTM A568, EN 10131, JIS G 3141 and equivalent grades

Technology Partners





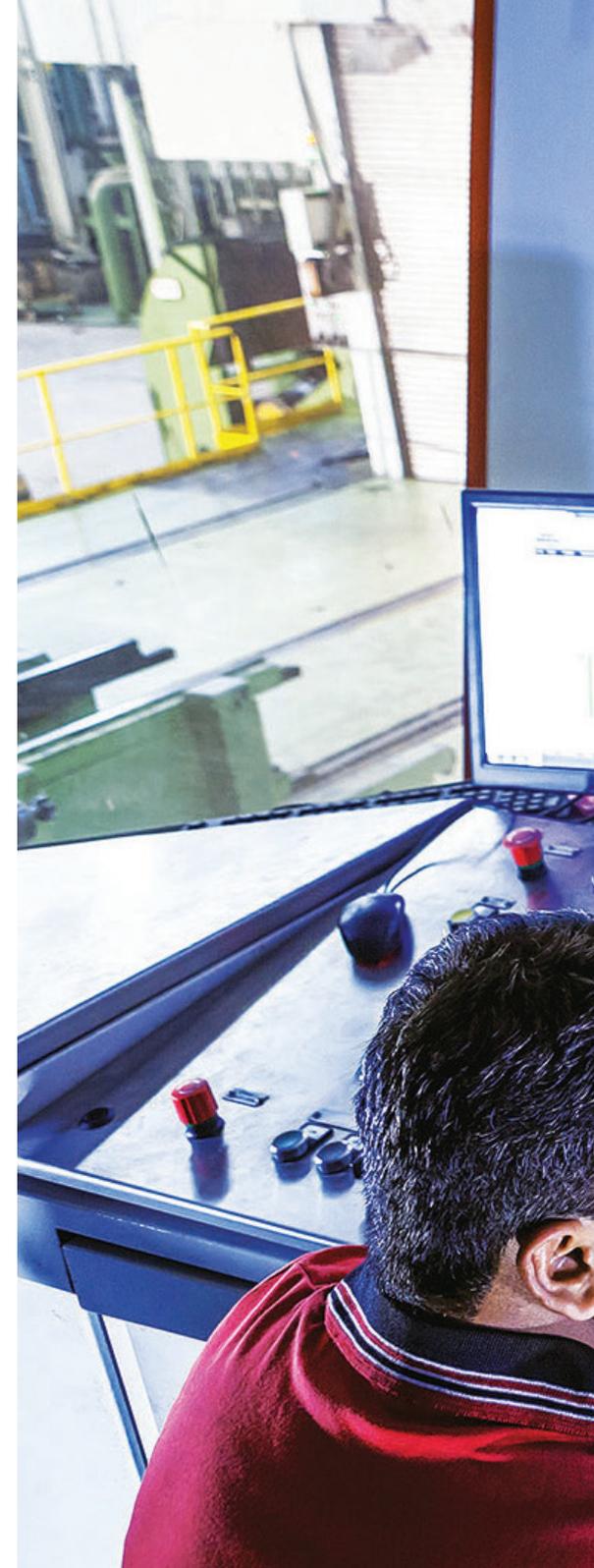
Quality Assurance Tests

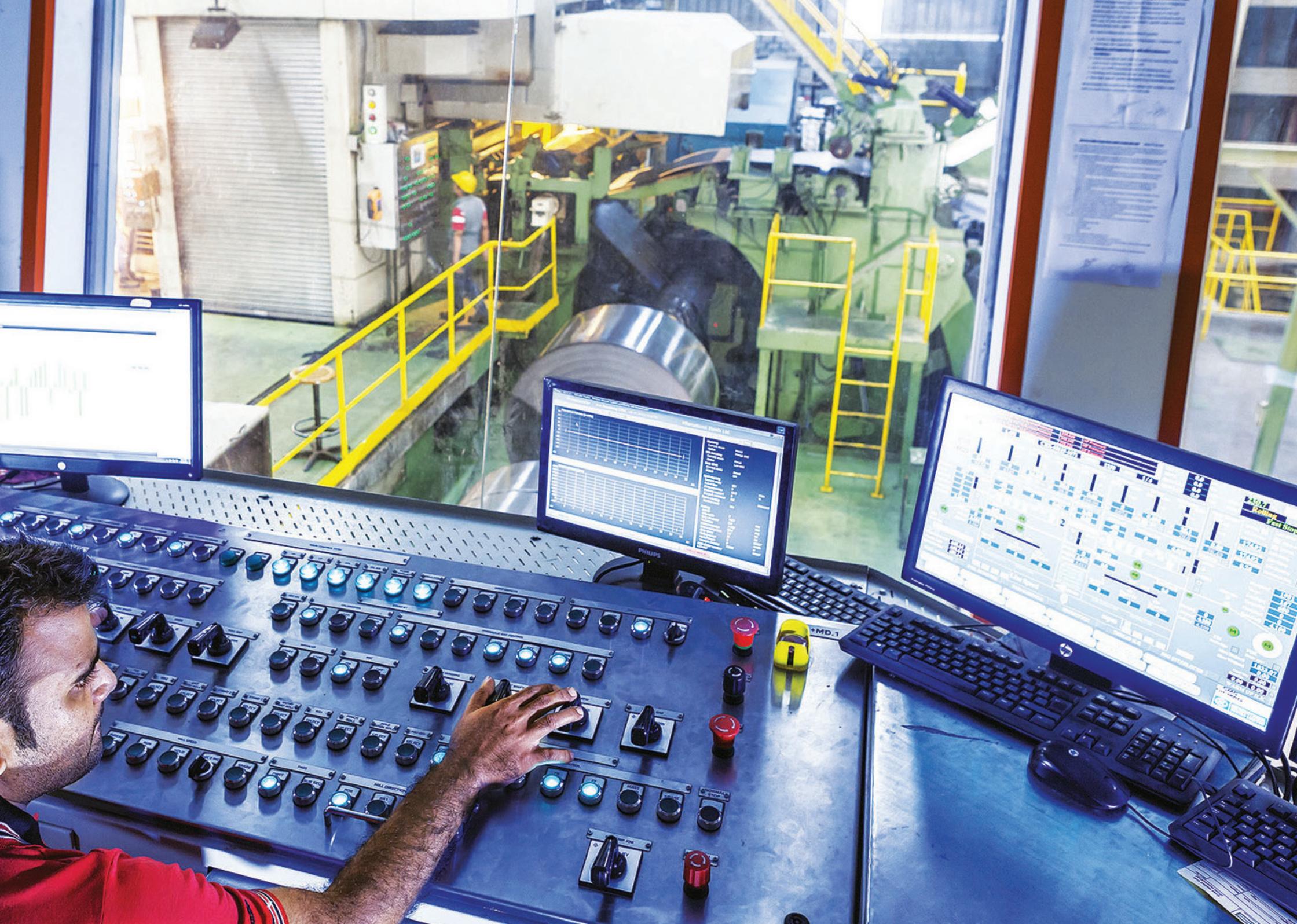
ISL carries out various quality assurance tests to ensure that the material complies with the usage parameters.

QUALITY TESTS PERFORMED	EQUIPMENT
TENSILE TEST	Universal tensile testing machine, Precision tensile testing machine with arrangement for determining R value and N value
CUPPING TEST	Cupping test machine
HARDNESS TEST	Vickers hardness tester, Rockwell superficial hardness tester
BEND TEST	Hydraulic flattening press
FLUTING TEST	Fluting mandrel
SURFACE FINISH	Surface roughness tester
FLATNESS MEASUREMENT	Surface plate



ISO 9001: 2015 Quality Management System
 ISO 14001: 2015 Environment Management System
 ISO 45001: 2018 Occupational Health & Safety Management System







Applications

**AUTOMOTIVE
COMPONENTS**



**HARDWARE AND
SANITARY**



**GATES AND
DOOR FRAMES**



PACKAGING DRUMS



**DOMESTIC
APPLIANCES**



**ELECTRICAL
GOODS**



OIL FILTERS



**BASE MATERIAL FOR
GALVANIZING AND
COATING**



SWITCH GEARS



**TUBES AND
SECTIONS**





Why ISL?



AVAILABILITY

ISL's efficient inventory and supply chain management system ensures that running items are available ex-stock.



GLOBAL FOOTPRINT

With close proximity to the country's sea port, ISL has a strategic location that provides efficient access to regional and international markets.



NATION-WIDE SALES NETWORK

A vast nationwide dealership network caters to all major cities of Pakistan.



CUSTOMIZATION

ISL offers various value-added products and services as per customer requirements, ranging from special grade steel products to services like custom cutting and slitting.



PRODUCT QUALITY

ISL's products are manufactured using high-quality raw material sourced from world's leading tier-1 mills. The steel produced in ISL's cutting-edge facility completely conforms to the global standards of steel manufacturing.



PRECISE DIMENSIONAL TOLERANCE

Minimal deviation in mechanical properties due to state-of-the-art production and quality control systems.



AFTER SALES SUPPORT

ISL being a customer-centric company, ensures peace of mind to its customers with its comprehensive after sales support and swift handling of complaints and queries.



PACKING STANDARDS

Exceptional packaging standards ensure that ISL products reach their destinations in a prime and "mill fresh" condition.





Value-added Services

CUT-TO-LENGTH

ISL has the capacity to provide cut-to-length material depending on customer requirements.



THICKNESS RANGE

0.15 mm to 2.50 mm



COIL WIDTH

1,250 mm max.



COIL WEIGHT

25 tons max.



CUTTING WIDTH

min. 400 mm, max. 1,250 mm



CUTTING LENGTH

min. 400 mm, max. 4,000 mm



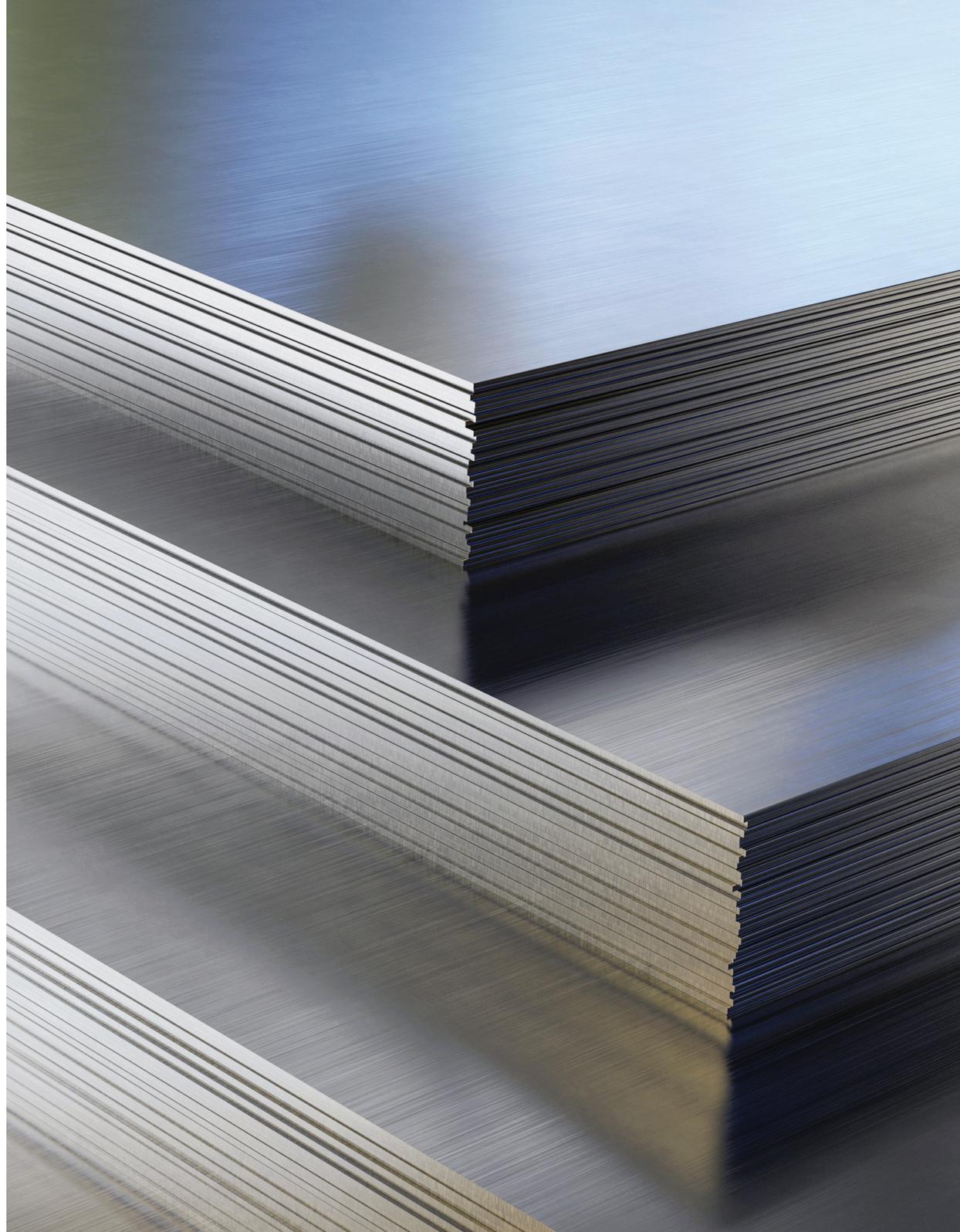
PALLET WEIGHT

3.5 MT max.



TOLERANCE OF CUTTING LENGTH

+3 mm max.





SLITTING SPECIFICATIONS

ISL's Service Center has the capability to provide slitted coils as specified by customers.



THICKNESS RANGE

0.15 mm - 2.50 mm



COIL WIDTH

1,250 mm max.



COIL WEIGHT

25 tons max.



INTERNAL DIAMETER

508 mm



EXTERNAL DIAMETER

1,700 mm



SLIT WIDTH TOLERANCE

+/- 0.1 mm max.



MINIMUM SLITTED WIDTH

25 mm





Transport and Handling Precautions



LIFTING DEVICES

Always use proper lifting devices like C-hooks or parallel hooks, magnetic lifters, nylon slings etc. to lift, load and unload coils and sheet packets.



RUBBER SHEETS

When transporting coils in trucks, use rubber sheets beneath the coils or an exclusive transport stand.



SKIDS

While stacking the coils on floor, ensure that they are placed on proper skids to avoid formation of dents.



MOVING & SHIFTING

While using a lifter, always carry sheets in a packed condition to prevent them from slipping or getting scratched.



HANDLING WITH SLINGS

Nylon slings are preferred. Use rubber pads on coils where the sling comes in contact with them.



SECURE LASHING

While transporting in containers, coils must be lashed adequately and securely to avoid damage to the products.



SECURE STACKING

While transporting, ensure that the stacked sheets are firmly secured down, to avoid them slipping off due to vibrations and movements.



SLINGS & ROPES

Secure coils and sheet packets with slings/chains/ropes while transporting in trucks. Use rubber pads between these fasteners and steel products.



FORKLIFT

Do not push cut-sheets or roll the coils with a forklift, since this could cause scratching.



Storing Precautions



DRY STORAGE

Keep the coil and sheets dry and store them in a well-ventilated place.



AVOID WETNESS AND CONDENSATION

If wetness or condensation is found, then dry it at once. An effective measure is to dry a shipment with a fan or similar equipment while unpacking it.



COVERED STORAGE

Always store the sheets in a covered storage area.

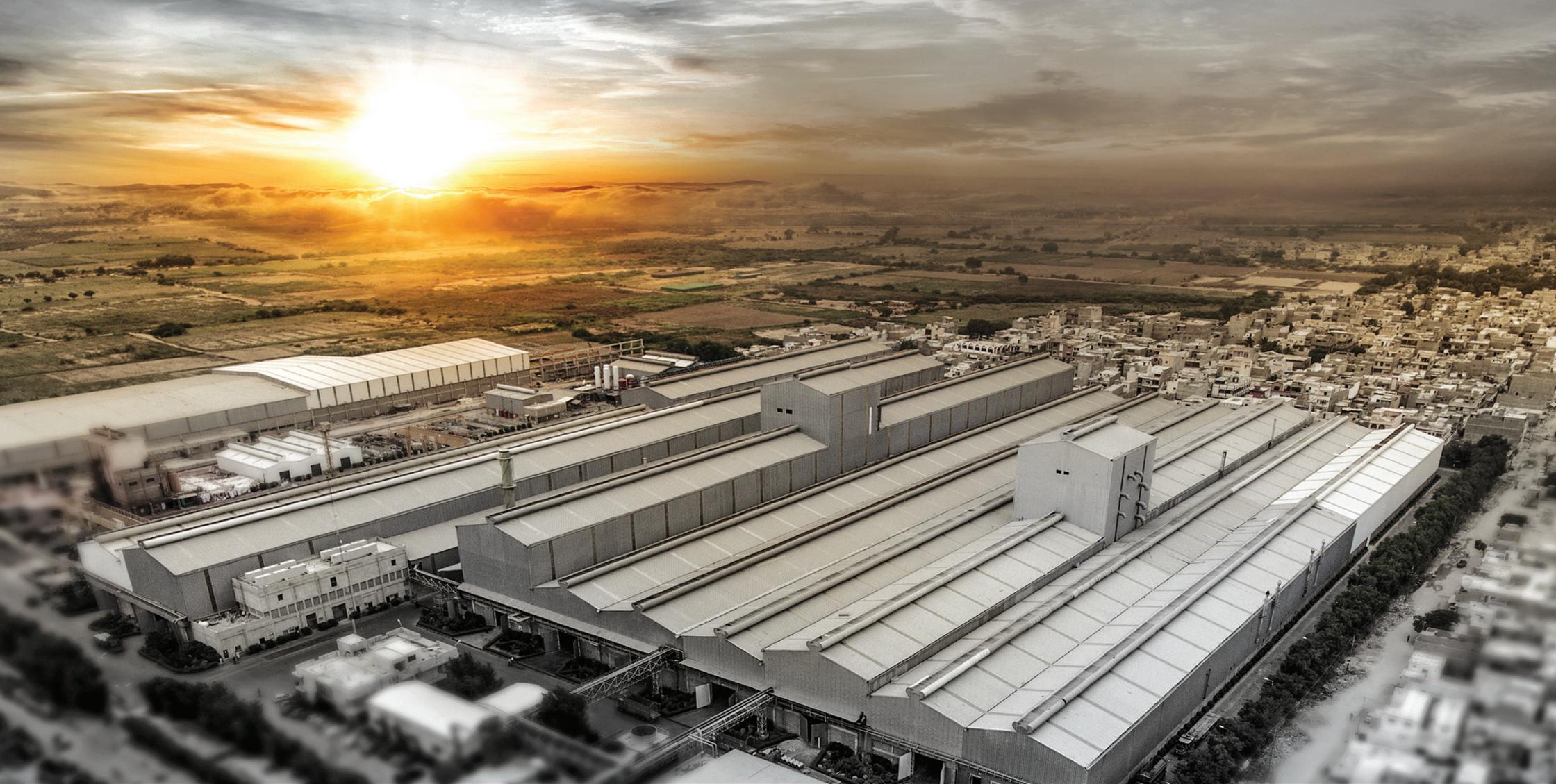


OPEN STORAGE

Although not recommended, if in any case the sheets must be stored in the open, the following precautions should be taken:

- Put sleepers such as square pieces of lumber at proper intervals on the ground and then place the sheets on top of them.
- Lay sleepers on flat ground. The tops of the sleepers must be equally leveled to prevent the sheets from warping.
- Ensure air circulation.
- Ensure that the sheets are covered with waterproof sheeting or canvas to protect them from rain and sunlight.





ISL MANUFACTURING FACILITY

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