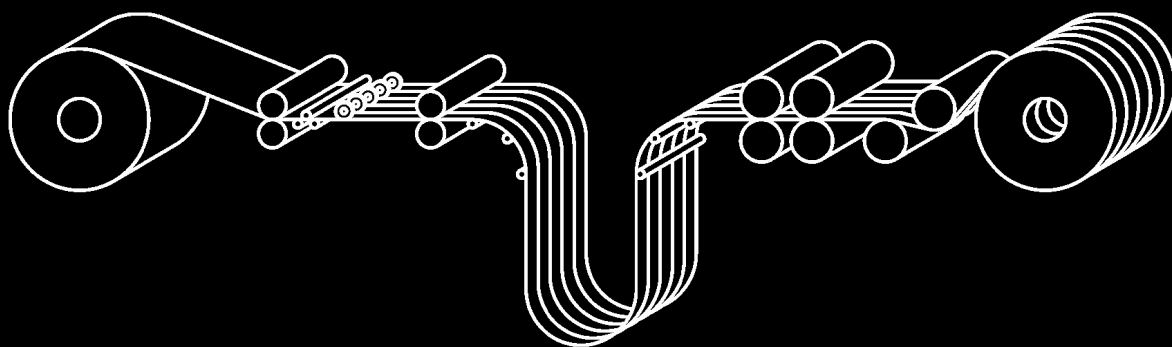




CATALOGUE



Slitting lines, cut to length lines, & packaging & stacking lines
for metal coils processing

www.cinser.eu



CERTIFICATE OF APPROVAL

This is to certify that the Quality Management System of:

CIMISA MECANIZADOS, S.A.
Humanes de Madrid
Spain

has been approved by Lloyd's Register Quality Assurance
to the following Quality Management System Standards:

ISO 9001:2008

The Quality Management System is applicable to:

**Mechanical manufacture and construction of machinery for
industry.**

Approval
Certificate No: SGI 6004806

Original Approval: 13 March 2009

Current Certificate: 12 April 2010

Certificate Expiry: 12 March 2012

Issued by: LRE, S.A.
On behalf of Lloyd's Register Quality Assurance Limited



001

This document is subject to the provision on the reverse
71 Fenchurch Street, London EC3M 4BS United Kingdom. Registration number 1879370
This approval is carried out in accordance with the LRQA assessment and certification procedures and monitored by LRQA.
The use of the UKAS Accreditation Mark indicates Accreditation in respect of those activities covered by the Accreditation Certificate Number 001
March 2010/13

Presentation

The main activity of **CINSER** (a Cimisa Group company) is the **Engineering service** focused in the design of machines and in the Control Systems for **Slitting & Cut to Length Lines** for the processing of metal Coils. Other specialty of **CINSER** Company is the **Revamping service** for Slitting & Cut to Length lines, for any type of manufacturing brand, including the Control



Cimisa Mecanizados The company started the activity at the beginning of the seventies, as the brand name of **MECESA**.

On September of 2006 the **CIMISA Group** has taken over (purchased) the Plant to **SIEMENS – VAI Group**.

On January 2010 the **CIMISA Group** has taken over the **Indeco Mechanical company**, which main activity is Engineering for manufacturing **High Precision and Performance Slitting and Cut to Length Lines** for **Processing metal Coils**.

On this catalogue, you can find out **additional Information**, workshop's pictures, machine tools characteristics, and some examples of equipments manufactured by **CINSER**.
More information on www.cinser.eu

Supply and Services

- **Slitting and Cut to Length Lines** for **High Quality** and Performance.
- Complementary machines, such **Rotary Belt Bridle** units, **Packaging Lines** and so on for **Carbon Steel, Stainless and Aluminium**.
- Machines manufacturer, as outsourcing service, for big size equipments for Heavy Duty Service.
- **Fabricated equipments** and components
- **Erection of machines**, painting, trials and testing.

Staff

45 People at the **Madrid Plant**.



CUT TO LENGTH LINES



www.cinser.eu

Cut to Length Lines

High Production

Line Parameters:

Coil weight up to 40 t.
Strip width up to 2100 mm. and more.
Strip thickness from 0,10 up to 15 mm. and more.
Production speed up to 140 m/min.

Production Capacity:

100.000 t. y of mix Production.

Types of material:

Carbon Steel, stainless steel, aluminium, non ferrous metals and alloys.
Cold rolled, hot rolled, pickled, galvanized, dried, oiled, any coating and metals with sensitive surfaces.
Material strengths of more than 1200 N/mm² with yield up to 1000 N/mm².

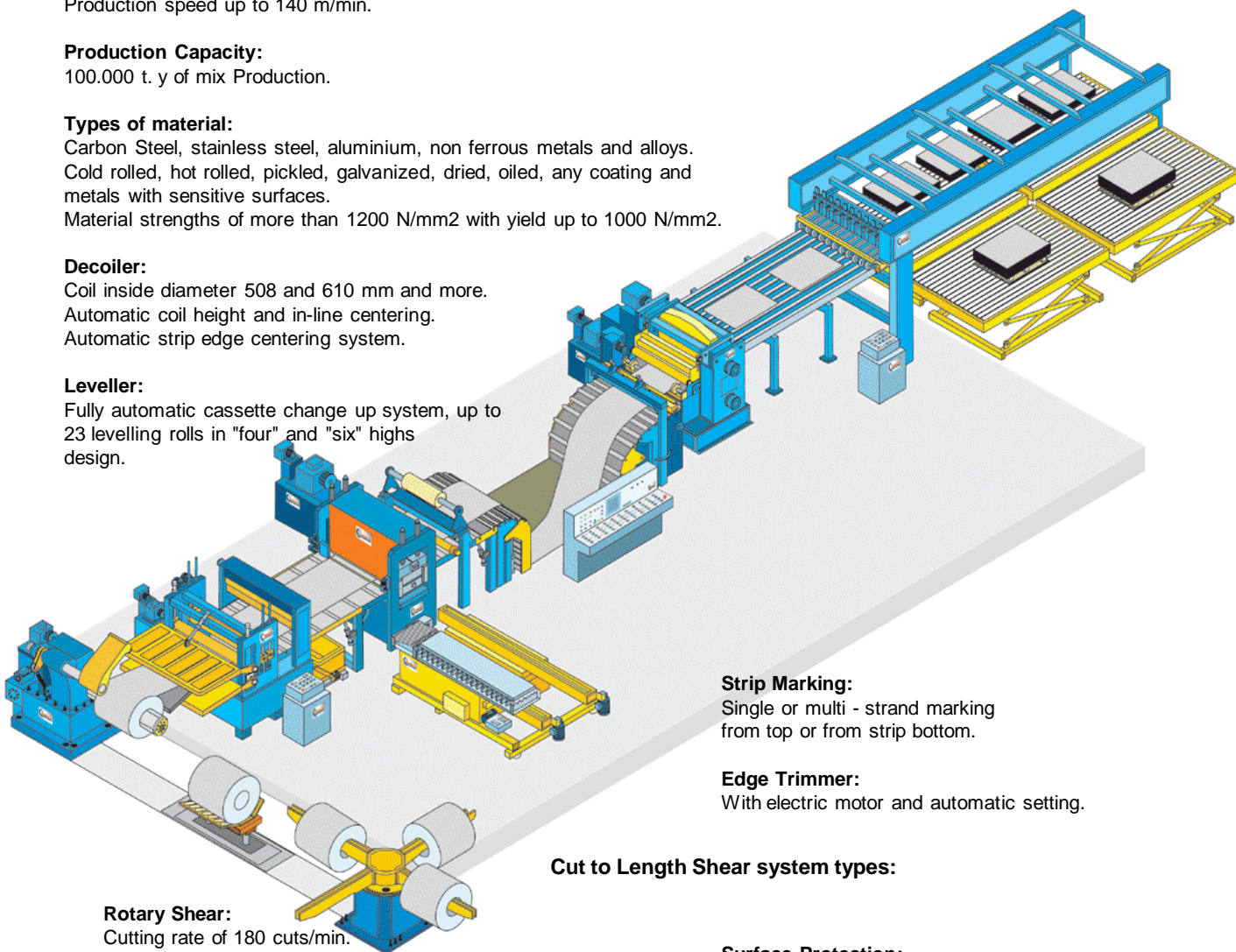
Decoiler:

Coil inside diameter 508 and 610 mm and more.
Automatic coil height and in-line centering.
Automatic strip edge centering system.

Leveller:

Fully automatic cassette change up system, up to 23 levelling rolls in "four" and "six" highs design.

High Production



Strip Marking:

Single or multi - strand marking
from top or from strip bottom.

Edge Trimmer:

With electric motor and automatic setting.

Cut to Length Shear system types:

Rotary Shear:

Cutting rate of 180 cuts/min.
Length tolerance of 0,2 mm.

Flying Shears:

Cutting rate of 50 m/min.
Length tolerance of 0,2 mm.

Eccentric Shear with feeder rolls:

Cutting rate of 140 cuts / min.
Length tolerance of 01 mm.

Swing Shears:

For trapezium shape formats.
Oscillation tolerance 30°.

Surface Protection:

Paper or foil application system for plate protection,
from top or from below, for sensitive surfaces.

Stacker:

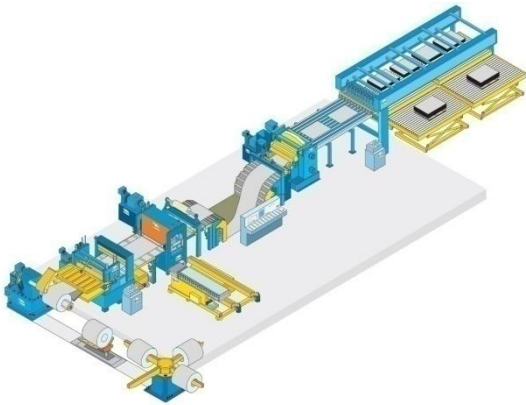
Precision stacking systems.
Special design for sensitive surfaces.
Vacuum stacker.
Bomb door type stacker.
Magnetic belt stacker.
Stacking accuracy at length/width of 0,5 mm.
Stacks packaging without production interruption.

Custom tailored high - medium - low of automation requirements - Modem on-line teleservice

Cut to Length Lines

High Production

Machines



Cut to Length Line and Stacking



Hydraulic Decoiler for 40t. weight x 2000mm x 10mm. For Stainless Steel



Double Decoiler for Aluminium Cut to length Line



Decoiler & Inlet area of Cut to Length Line for Stainless Steel strip of 2000x12 mm



Precision Leveller for High Thickness for stainless strip of 2000x12 mm



Flying Shear (50 m/min) for stainless steel strip 2000x 3 mm to 12 mm thicknesses

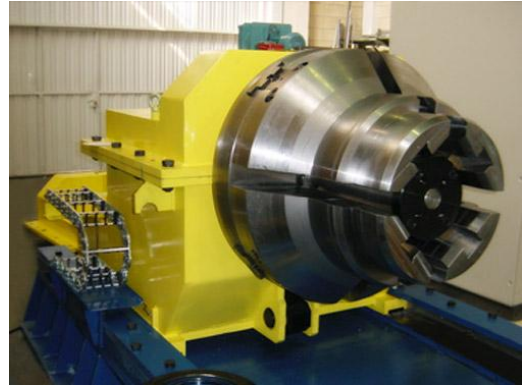
Cut to Length Lines

High Production

Machines



Inspection conveyor & Bomb-door Stacker for 2000 x12 mm for stainless steel 15 mm



Double decoiler for 40 t. and strip thickness of 15 mm



Detail of double decoiler for 40 t. and strip thickness of 15 mm



High precision leveler with top bridge balancing on 4 pivots. For Stainless St. 2000 mm x 3 mm



Precision Leveler for Stainless Steel 2000 mm x 10mm



Counter rolls motor drive for precision leveler stainless steel 2000 mm. x 10 mm

Cut to Length Lines

High Production

Machines



Flying Shear with Hydraulic Clutch for Stainless St
2000 mm x 10 mm



Erection of Rotary Shear for Cut to Length Line



High Speed Electronic Shear (90m/min) 1500 x 3 mm



High speed Electronic Shear (90 m/min) for stainless
strip for 1500 x 3 mm

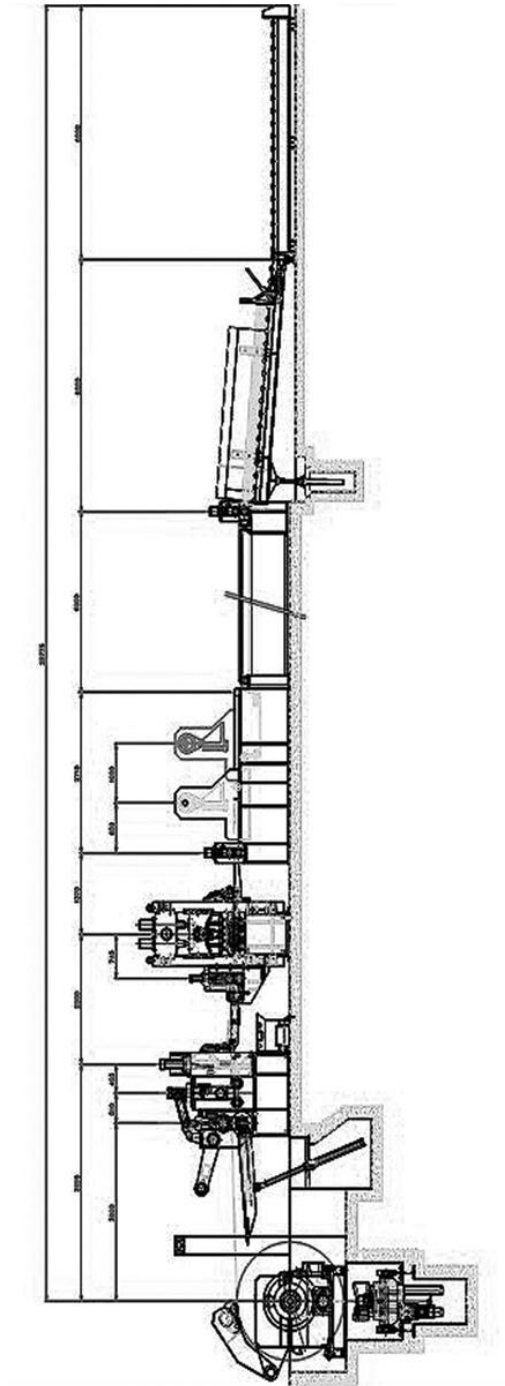


Straightening Rolls & Crops Shear for stainless
strip 1500 x 3 mm

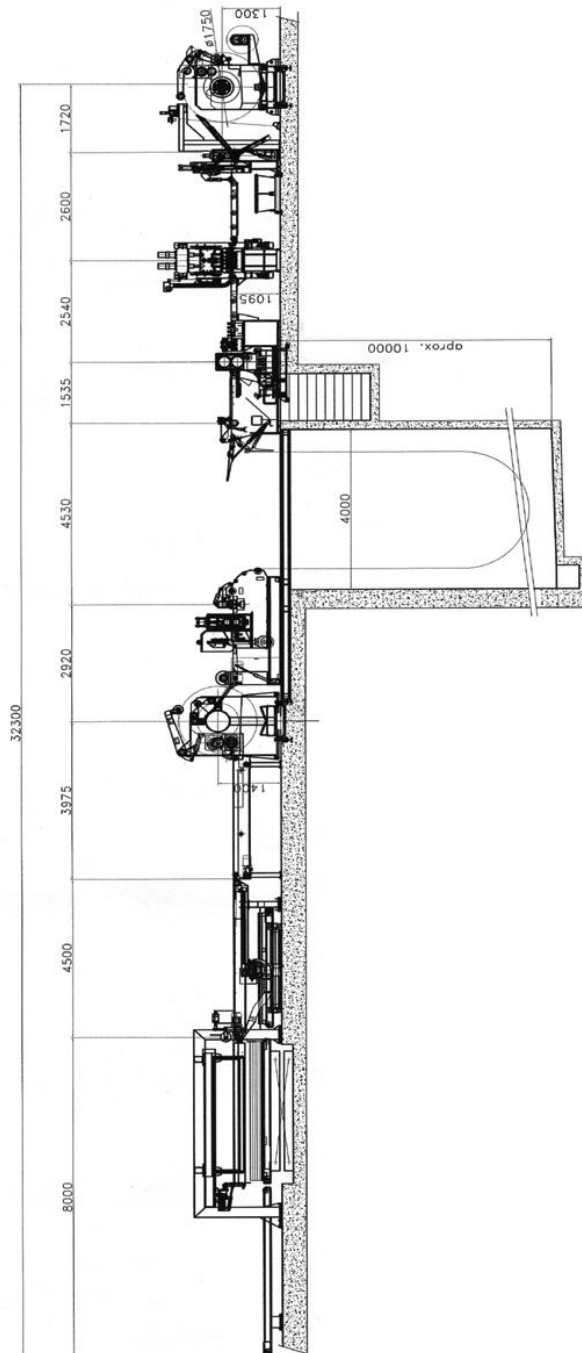


PVC film Applicator & Flying Shear for stainless strip
1500 x 10 mm

Machines



Machines





Levelers

CINSER's manufacturing programme for Levelers is including 2 main types:

- 1.- Precision Levelers**
- 2.- Narrow Strip Levelers**



Precision Levelers

The **precision levelers** are designed for **cold and hot rolled sheets, plates** and **strips** to fulfil highest flatness and surface protection requirements.

Strip materials in carbon steel, **stainless steel, copper, aluminium** and **high gloss surface aluminium**, and high tensile strengths tungsten and molybdenum alloys.



Typical range of application:

Strip thickness between: 0,2 mm up to 13 mm. (max. 20 mm.)

Strip width: max. 2500 mm. and more

Yield: 750 N/mm²

Leveling speed: 120 m/min.

Leveler Configuration in **"four-high"** and **"six-high"** design.

Cassette changing systems: Manual, Semi-automatic and **Automatic change** over devices.

Levelers

High Precision Levelers

Machines



Erection of Precision Leveler for High thickness strip 2000 x 25 mm



Erection of Precision Leveler for High Thickness for de 2000 x 25 mm



Precision Leveler machine of 3 + 3 highs for 2000 x 3 mm



Counter rolls motor drive for precision leveler stainless steel 2000 mm x 10 mm



High Precision Leveler of 3+3 heights for stainless steel strip of 12 mm thickness x 2000 mm width



High Precision Leveler of 3+3 heights for stainless steel strip of 12 mm thickness x 2000 mm width

Levelers

High Precision Levelers

Machines



Counter rolls motor drive for precision leveler stainless steel 2000 mm x 8 mm



Counter rolls drive for High Precision Leveler for 2000 mm x 8 mm



High Precision Leveler of 3+3 heights for stainless steel strip of 12 mm thickness x 2000 mm width



Precision Leveler for Stainless Steel 2000 mm x 10 mm



High Precision Leveler of 3+3 heights for stainless steel strip of 3 mm thickness x 2000 mm width



High Precision Leveler with top bridge balancing on 4 pivots for Stainless Steel 2000 mm. x 3 mm

Stacking Systems

Packaging & Stacking Systems



Slopping Stacker for 2000 x 3 mm

Stackers:

- Automatic **stacker** type **Bomb-Door**.
- Fully automatic **Magnetic stacker**.
- Automatic Vacuum **stacker**.
- **Stacking accuracy length** / width of +/- 0,5 mm.
- **Stacks packaging** without production interruption.

Standard stacking systems:

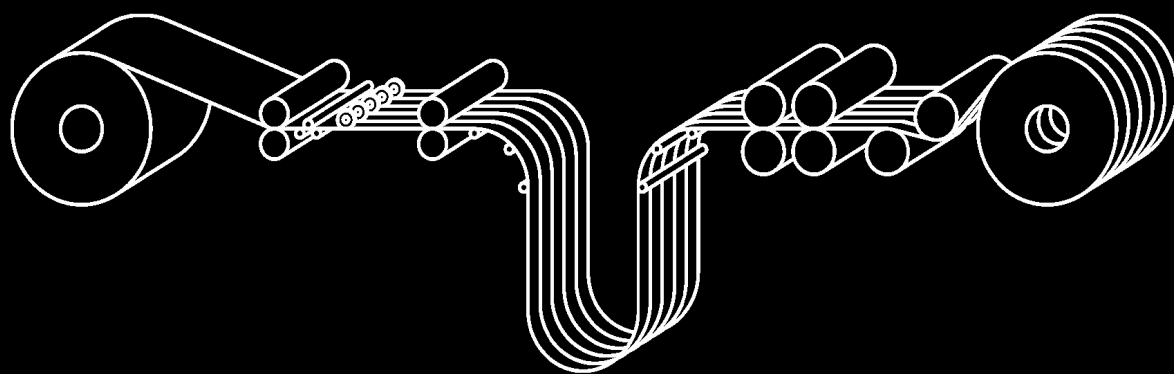
- 1.- Automatic stacker type **BOMB – DOOR**.
- 2.- Double Station **MAGNETIC** Stacker.



Inspection conveyor & Bomb-Door Stacker for 2000 x 12 mm stainless steel



SLITTING LINES



www.cinser.eu

Slitting Lines

High Production

High Production

Line Parameters:

Coil weight up to 40 t.
Strip width up to 2100 mm. and more.
Strip thickness range from 0,05 up to 15 mm.
Line speed up to 500 m/min.

Production rate:

190.000 t./year and more according production mix.

Processing materials:

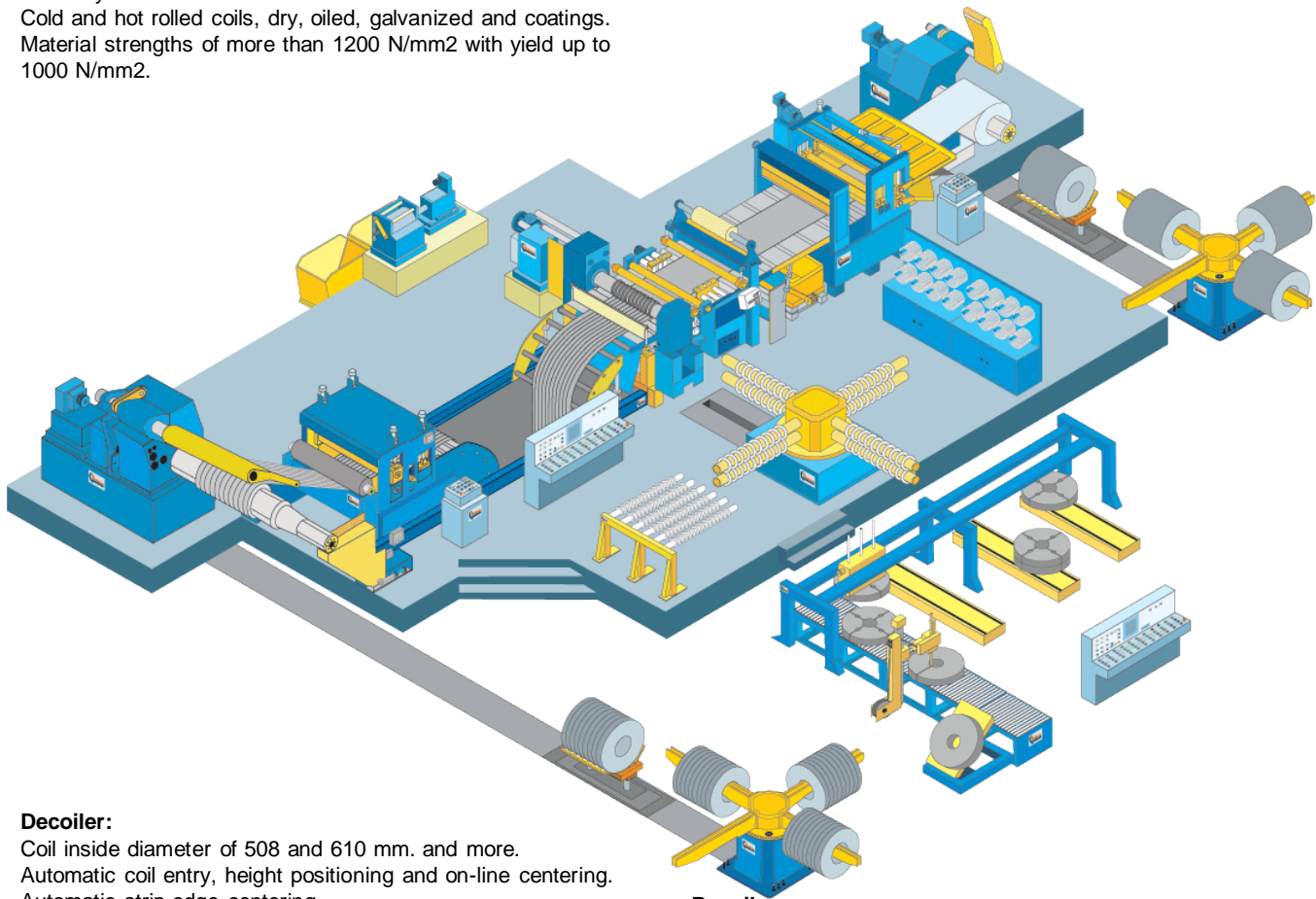
Carbon Steel, Stainless Steel, Aluminium, non ferrous metals and alloys.
Cold and hot rolled coils, dry, oiled, galvanized and coatings.
Material strengths of more than 1200 N/mm² with yield up to 1000 N/mm².

Loop pit:

Automatic metal strip threading system from the slitting shear to recoiler, through the tension unit.
Automatic strip loop control.

Braking and Tension Unit:

Configuration according strip type of metal and surfaces.
High winding accuracy system by means of movable tension unit and automatic control system.
Special braking system for gentle metal surface treatment as stainless steel, aluminium, coatings and so on.



Decoiler:

Coil inside diameter of 508 and 610 mm. and more.
Automatic coil entry, height positioning and on-line centering.
Automatic strip edge centering.

Paper or Plastic film application:

From top and bellow of the metal surface.

Slitting shears:

Automatic slitter quick change.
Automatic exchange system for separating shafts.
High axial accuracy cutting system.
High number of cuts on slitting shear with minimum deflection and without cutting burr.

Recoiler:

With and without use of slit coils separating system.

Line Automation:

Custom tailored high - medium- low automation requirements.
Modem on line teleservice.

Coil Packaging Line:

Without production interruption.
Circumference banding on recoiler.
Custom tailored packaging line lay-out.

Slitting Lines

High Production

Machines



Slitting Line of 1500 mm x 6 mm x 200 m/min



Slitting line for stainless steel of 1500 mm. x 3 mm x 150 m/min.



Slitter automatic tool change



High performance Slitting Line of 1.250 mm. x 0,1 up to 3 mm of thickness x 350 m/min



Slitter automatic tool change

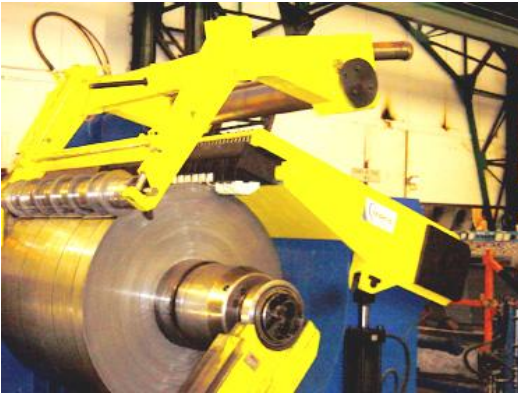


Tension unit for Slitting Line

Slitting Lines

High Production

Machines



Recoiler unit for Slitting Line



Slitting Line for stainless steel of 1500 mm x 3 mm x 150 m/min.



Decoiler & Inlet area of Slitter for stainless strip 1500 x 3 mm



Decoiler & Straightener & Crops Shear for stainless strip 1500 x 3 mm



Slitter with automatic tooling change over (less than 5 minutes) for stainless strip 1500 x 3 mm



Rotary Belt Bridle & Displaceable Tension unit for stainless strip 1500 x 3 mm

Slitting Lines

High Production

Machines



Surface type rolling Car on Recoiler for stainless strip 1500 x 3 mm & Strapping Capstan



Surface type rolling Car on Recoiler for stainless strip 1500 x 3 mm & Strapping Capstan



Slitter & Traction Rolls & Inlet basket for Stainless Steel 600 x 3 mm



Decoiler & fully automatic strip centring system for 600 mm. x 0,1 - 3 mm. x 350 m/min



Last generation control system for slitter 600 mm x 0,1 - 3 mm x 350 m/min. - Stainless/Al/Cu/Brass

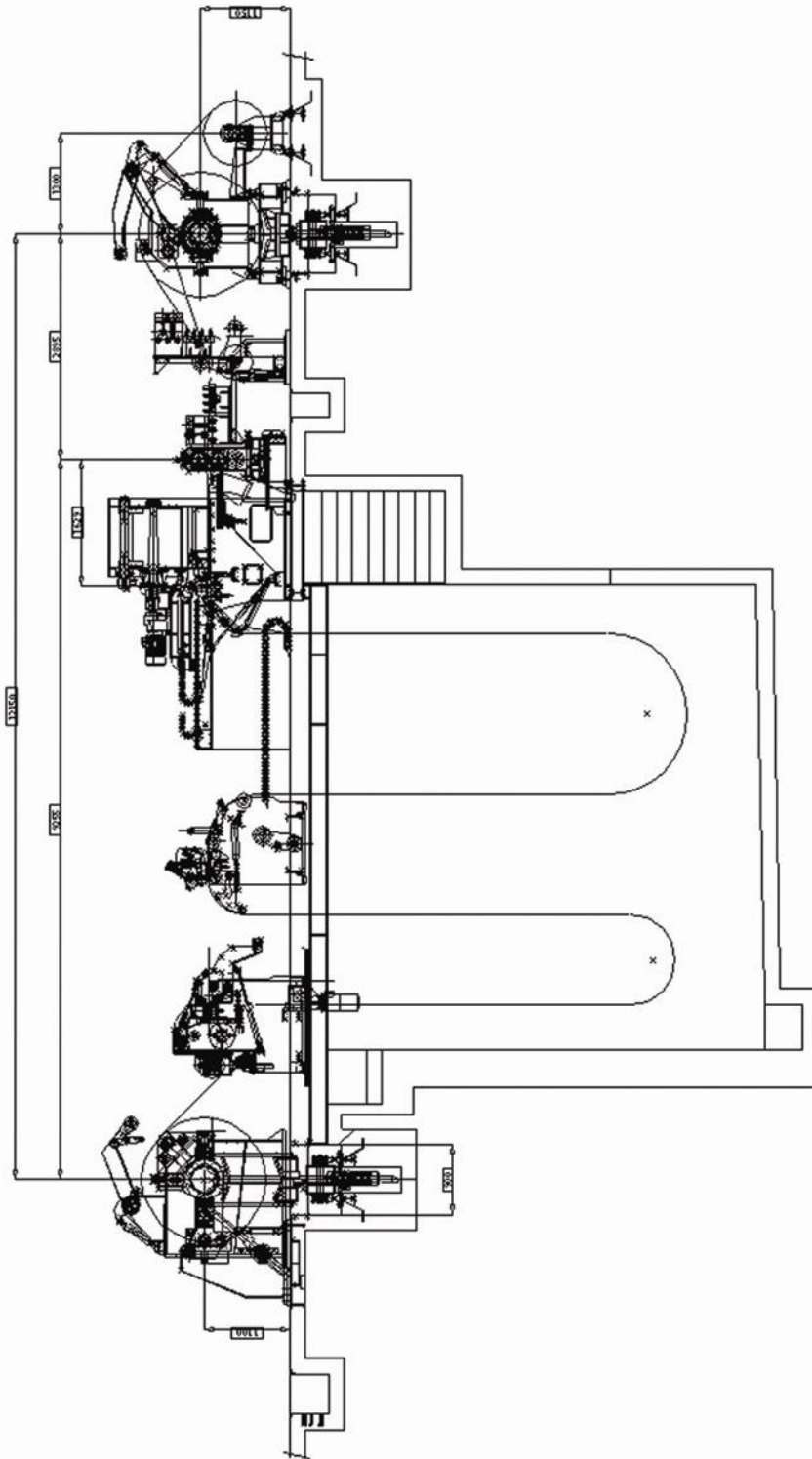


Detail of Slitter of 600 mm x 0,1 - 3 mm x 350 m/min

Slitting Lines

High Production

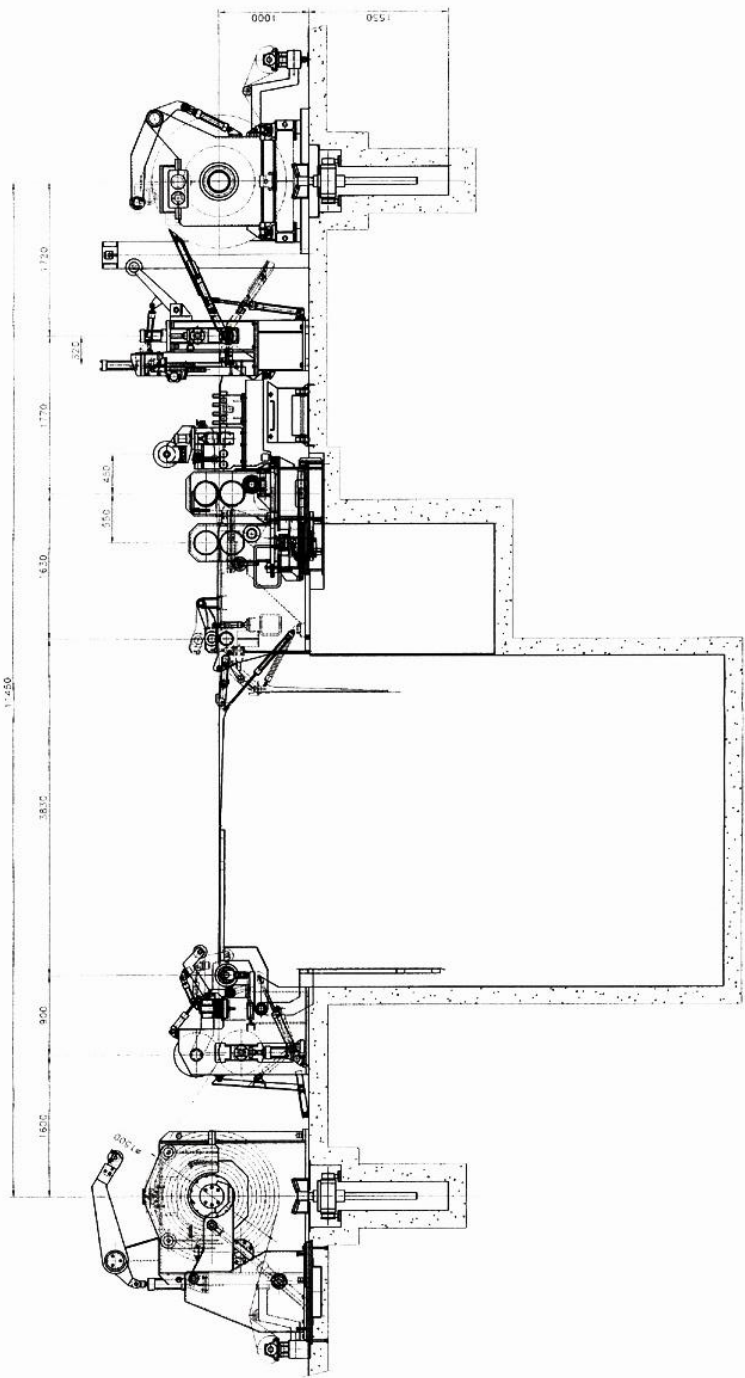
High Production



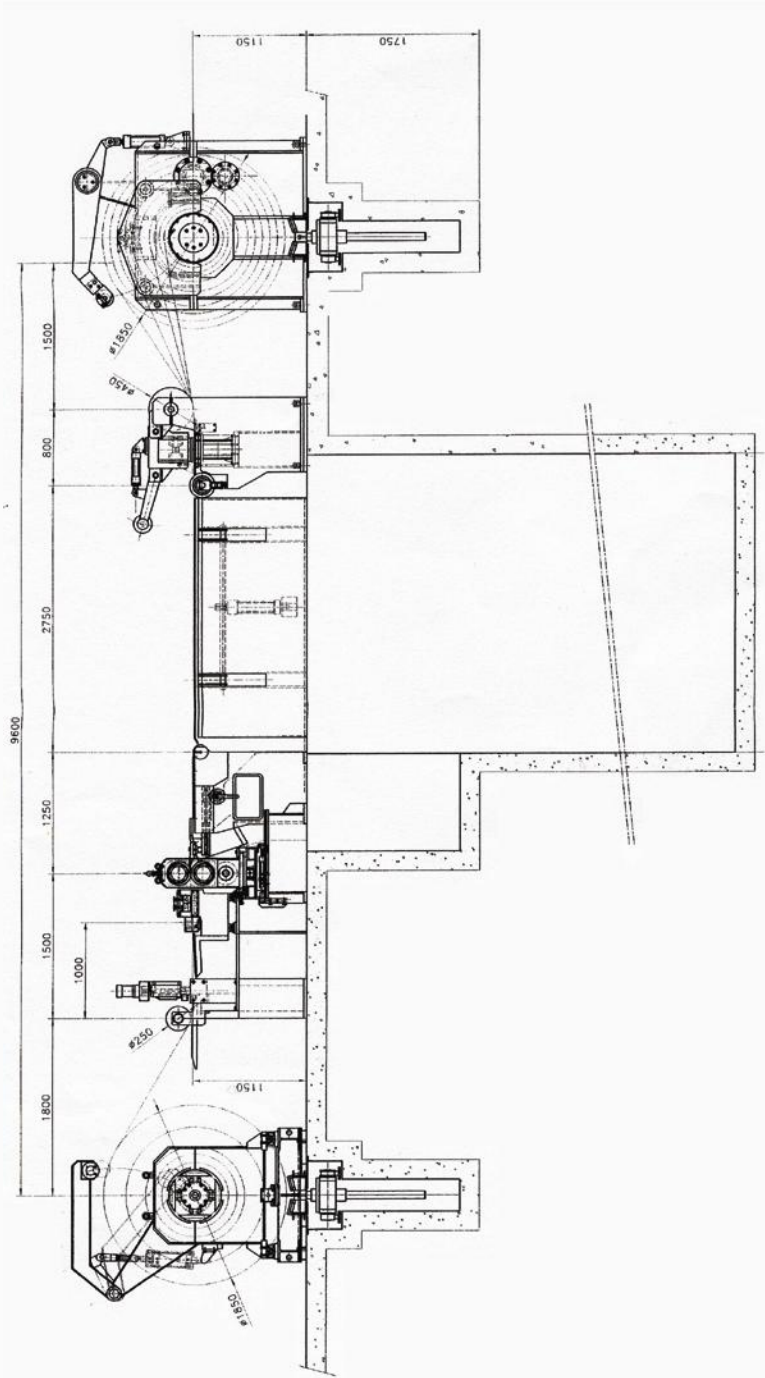
Slitting Lines

Mid Production

Mid Production 1500 SL



Mid Production 600 SL



Slitting Shear Systems

Slitting Shear with Tooling Capstan

The slitting shear function is **sheet cutting** on required width strips and **edge trimming** by means of **circular cutting tools**.

Cutter and **tool change** on the **slitting shear** is **fully automatic** and housing lock at working position is made by means of special "**Rigid Clamp**" system developed by **CINSER**.

The change over of the **used cutting tool** set on the **slitting shear arbours** can be done:

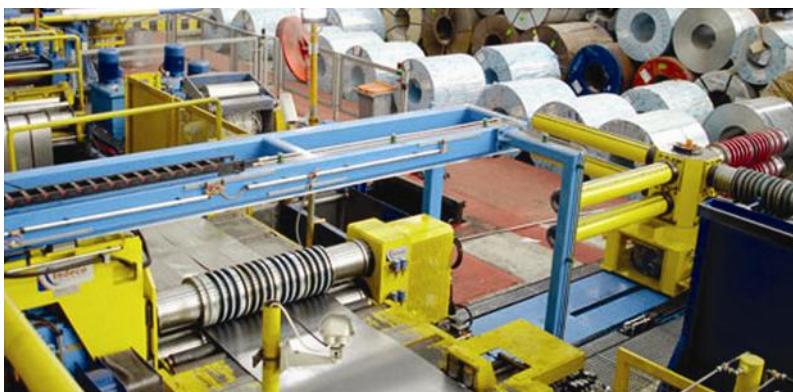
- 1.- **Manually in or outside the slitting line.**
- 2.- **Semi-automatically.**
- 3.- **Fully automatic.**

The main characteristics of the **Fully-Automatic tool change system** are:

- High accuracy of slitting knife arbours.
- Presetting of 3 tool sets.

Tooling capstan features:

- Fabricated steel frame with turntable system.
- Four coupled arbours for tools presetting.
- Hydraulic motor rotary drive. Shear arbour sets docking system.
- The cutting tool set is changed on the tooling capstan by a hydraulic pusher plate system.
- Driven motor for overlap adjustment.
- Tool clamping by automatic hydraulic system.



Braking & Tension Units

Strip Tension Unit



This equipment is designed to **get uniform tension of slit strips** during recoiling operation. **The machine is tensioning**, at the same time all and **each of strips**, recoiling them tightly and without any clearance in between.

This machine is composed of :

- **The carbon steel** fabricated bottom body bank assembled to **recoiler frame** and it is anchor bolted to basement. - **Double set of shafts** equipped with **splitting discs**. - **Bands tensioning pneumatic** device with **pressure control** and **hydraulic opening**. - **Felts change by auto-adhesive** quick-change system. (PATENTED). - **Deflector roll** covered with polyurethane of 90 +/- 5 Shore degree. This roll has a coupling device for **line tachometer dynamo** connexion.
- **Threading table** which conveniently retracts with **hydraulic cylinders**.



Rotary Belt Bridle & Displaceable Tension unit for Slitter for stainless strip 1500 x 3 mm

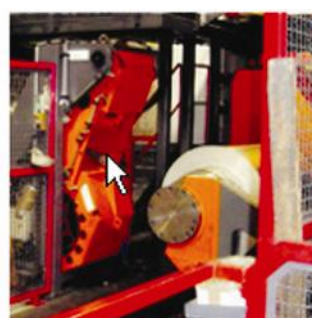
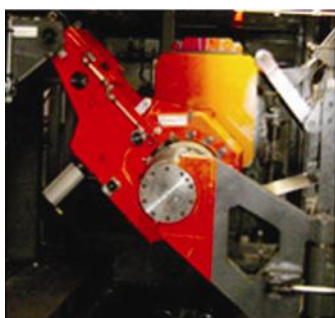
Recoiler with Rollers Wrapping System

Machine Description:

The **rewinding system** is designed to achieve evenly **wound coils with uniform tension** and allowing **additional roll banding** and removing the **slit coils** without delay.

The machine is composed by:

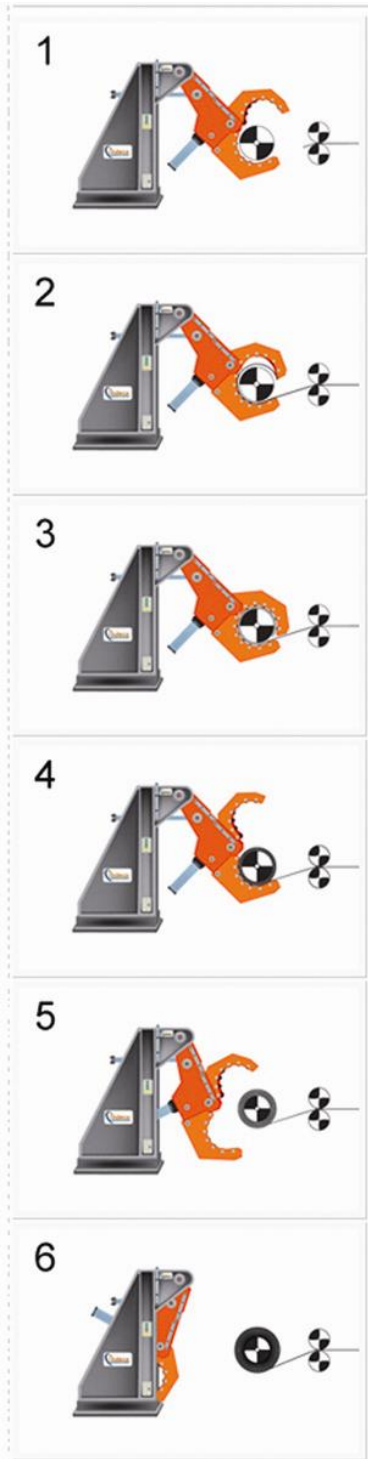
- Main body frame is **carbon steel fabricated** and tension relief.
- **Hydraulically expanded** multi-wedge hardened **recoiler drum** incorporate a **integral gripper system** and is supported on high precision bearings.
- **Automatic threading system** with roller clamp and articulated hinge arm.
- Mechanical drive with helical gear box for **recoiler drum**.
- **Coils ejector plate hydraulically operated**.



Main characteristics of a representative machine:

Max. Coil weight	Tn.	15
Coil outside diameter min/max	mm.	750/1800
Nominal diameter of expanded mandrel	mm.	610
Width of the mandrel	mm.	1400
Max. Recoiler Tension	Kp	15000
Recoiler speed	mts/min	60

Operation sequences:



Description:

The function of this threading system is to wrap the metal strip on the mandrel of recoiler without holding and bending the metal strip end in between of mandrel jaws.

The rollers wrapping is wrapping gently the metal strip on the mandrel preventing marks or notches on the sensitive metal surfaces.

The main application of this system is for recoiling high quality sensitive metals such aluminium, stainless steel, coatings, etc. and more than that when the quantity of coils is very high and the diameter of them is small.

The system is very performant for service centers with high production of small diameter coils.

General technical data:

Strip width: 500 a 2100 mm.

Strip thickness: 0,1 a 3 mm.

Metal types: Aluminium, stainless steel, coatings and brass.



PACKAGING & STACKING LINES



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Packaging & Stacking Lines

CINSER's Packaging and Stacking

Lines: Line parameters:

Single and double head strapping.

Coil outside diameter up to 2200 mm.

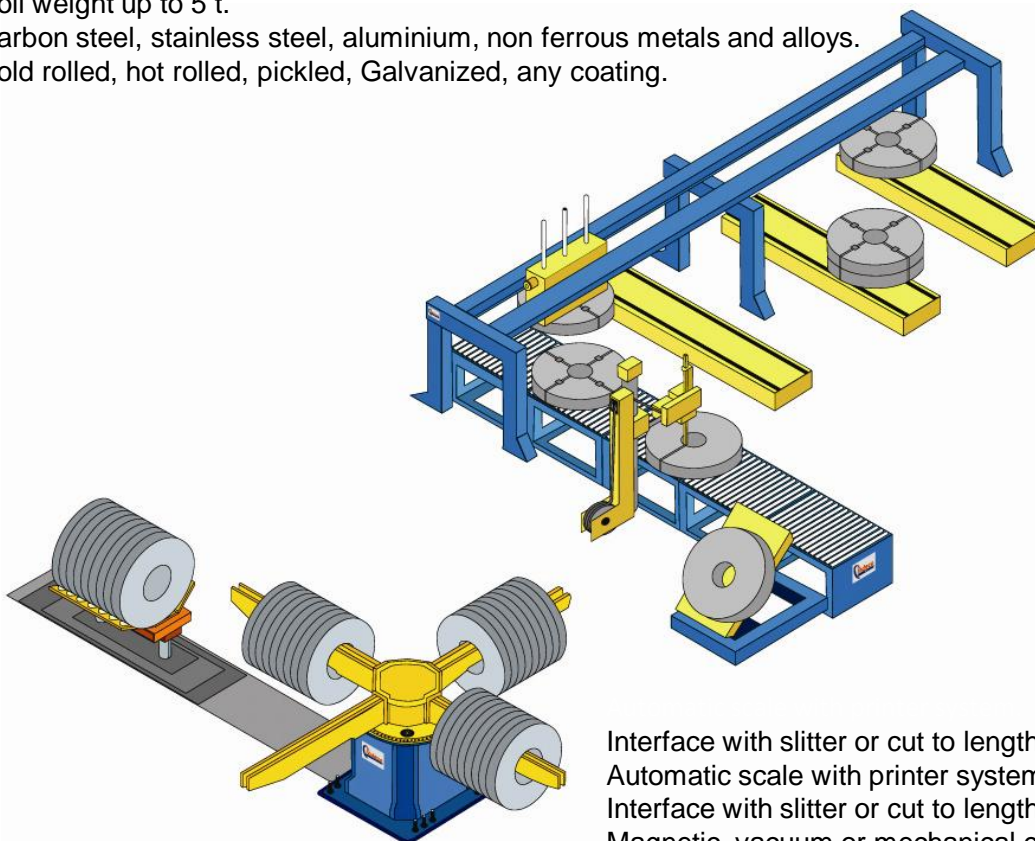
Standard inside diameters of 508 and 610 mm.

Max. output of 75 rings per hour (double head).

Coil weight up to 5 t.

Carbon steel, stainless steel, aluminium, non ferrous metals and alloys.

Cold rolled, hot rolled, pickled, Galvanized, any coating.



High Production Rates With:

Coil car with or without coil retainer.

Turnstile in one, two or four configuration.

Manual, semi-automatic or automatic downenders and coil upenders.

Single and double head strapping machines.

Strapping fastener material up on request.

Automatic pallet feeding.

Automatic spacer insertion for coils stacking.

Interface with slitter or cut to length line.

Automatic scale with printer system.

Interface with slitter or cut to length line.

Magnetic, vacuum or mechanical coil stacking systems.

Custom tailored high-medium-low of automation requirements.

Modem on-line teleservice.

Coil packaging:

Without production interruption.

Circumferencial banding on recoiler.

Customised packaging line lay-out.

Packaging & Stacking Lines

Machines



Coil up and downender machine (Sequence 1)



Coil up and downender machine (Sequence 2)



Coil up and downender machine (Sequence 3)



Packaging & Stacking Line up to 5 Tm coils



Packaging & Stacking Line up to 5 Tm coils



Packaging & Stacking Line up to 5 Tm coils

Packaging & Stacking Lines

Machines



Packaging & Stacking Line up to 5 Tm coils



Packaging & Stacking Line up to 5 Tm coils



Packaging & Stacking Line up to 5 Tm coils



Downender machine for Packaging & Stacking Line

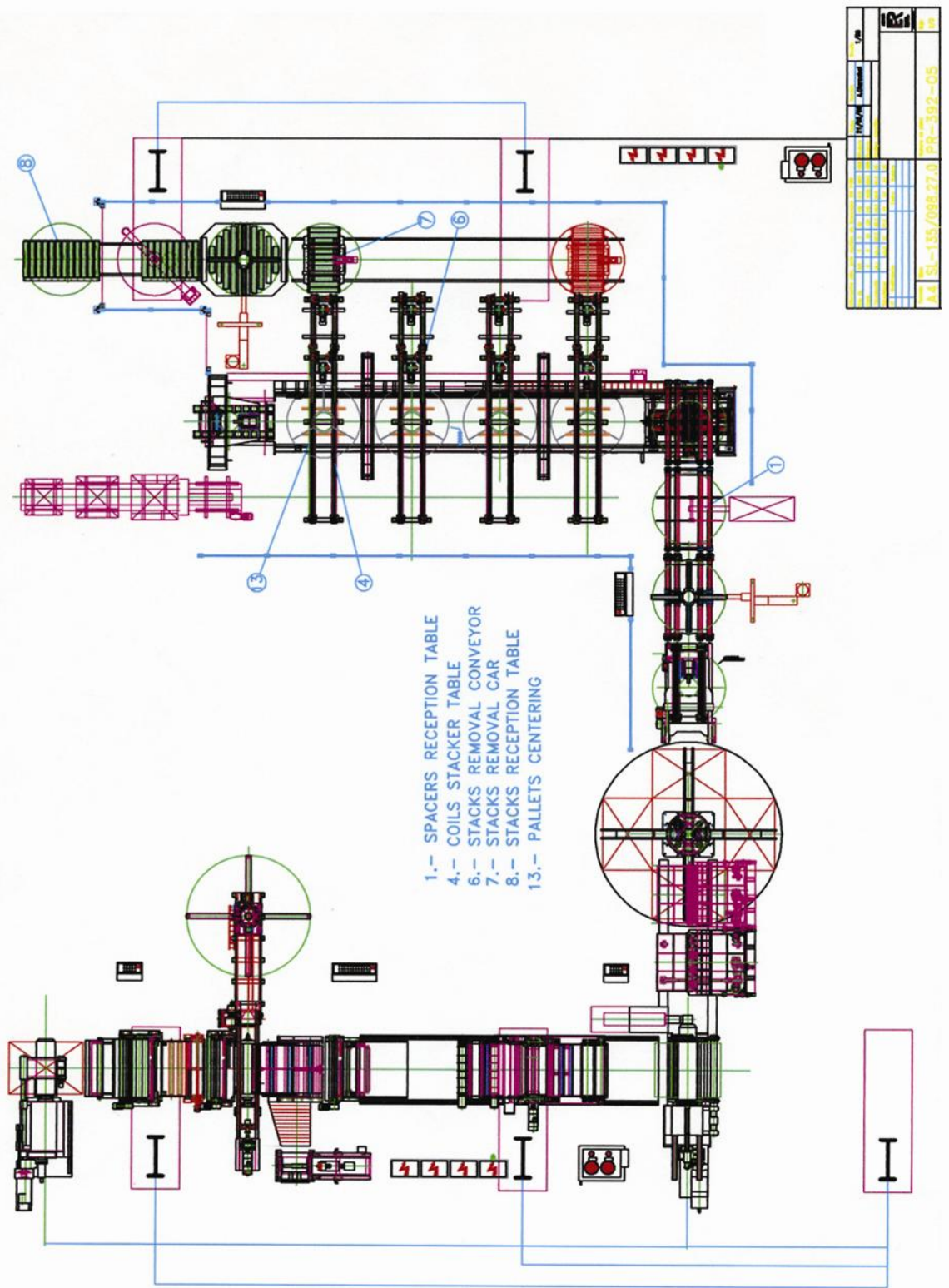


Packaging & Stacking Line up to 5 Tm coils



Slit coils strapping detail

Packaging & Stacking Lines





Automation Systems



www.cinser.eu

Automation

Revamping of Slitting and Cut to Length Lines

Manufacturing Programme of Speed Control Systems for:

Steel Plants.

Paper Mill Equipments.

Rubber Plants.

Plastic Plants...

Cnc manufacturing programme for:

Start-Stop lines.

Flying Shear.

Special models for pin holes detector.



Automation

Systems



Control desk for Slitting line for stainless steel of 1500 mm. x 3 mm. x 150 m/min.



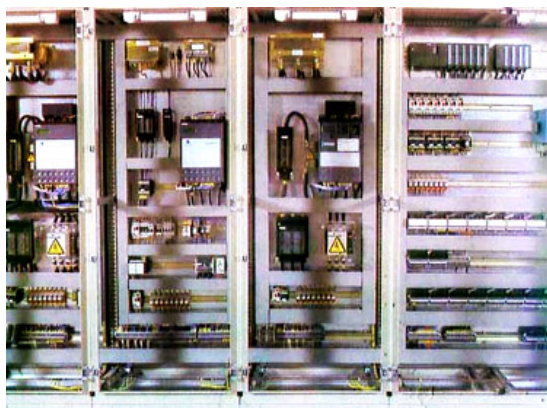
Control board.



Last generation control system for slitter 600 mm. x 0,1 - 3 mm. x 350 m/min. - Stainless/Al/Cu/Brass.



CNC control desk for feeder rolls.



Control Board for slit coil recoiler.



Supply and maintenance service for all range of A.C. and C.C. EUROTHERM drives.



Workshops



www.cinser.eu



Manufacturing Plant for Slitting & Cut to Length

Manufacturing facilities area of **5000 m2** is located at Humanes de Madrid – **MADRID**, where you can find the **Engineering department**, **Machining area**, Pre-erection, Test and Trials, prior to **Expedition to Customer plant** for final erection.

The **slitting and cut to length lines** manufactured by **CINSER** are **designed and manufactured** with a **Technology and Accuracy** applied on manufacturing **Machine Tools Plants**.



Set of Rolls for Tension Levelling Unit



Pre-erection area for the Equipments

Manufacturing Plant for Slitting & Cut to Length



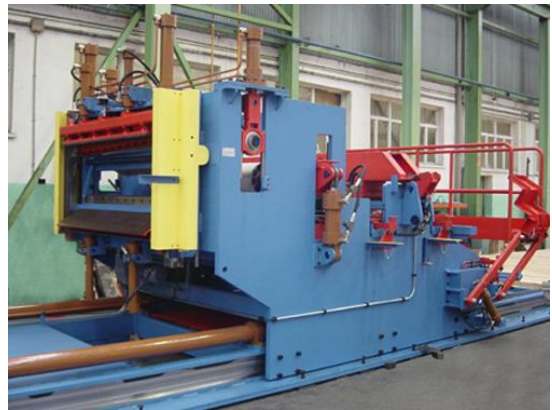
Erection of Slitting Shear



Erection Area



Erection area



Erection of Desplaceable Tension Unit



Erection of Hydraulic Piping on Desplaceable Tension Unit



Erection of Precision Leveller for High thickness strip

Outsourcing

Machines



High Capacity Turn machine



Detail of Milling machine



Erection of Rolls for Tension Leveler Unit



Detail of Milling machine



Detail of Boring machine



Milling with "Huron" Head

Outsourcing

Machines



Milling machinery area



Area of Boring and Milling machinery



Quality Control Area



Detail of Boring of Axial Pump Outlet



Detail of Milling of a Fabricated Component



Area of Miscellaneous Machinery

Machine Tools Facilities

Machining Center

With a total capacity of **16,075 machining in X - Horizontal and 3,500 mm in Y - Vertical**, is equipped with **two milling machines**, with the following characteristics:

Model	CNC	Dimension mm.			Table mm	Max. Weight kg.
		X	Y	Z		
Juaristi MX 7 RAM	Heidenhain TNC 430 M	11.000	3.500	1.000	MG20 Rotary 2.500 x 2.500 mm	20.000 (On the table)
Juaristi MX 5 RAM	Heidenhain TNC 430 M	11.000	2.500	1.000	MG12 Rotary 2.000 x 2.000 mm	12.000 (On the table)

Milling & Boring Machines

Model	CNC	Dimension mm.			Table mm		Max. Weight kg.
		X	Y	Z	L	I	
Juaristi	Heidenhain TNC 355 2 Stacks	1.530	2.885	4.030	2.500	2.000	30.000
Juaristi	Heidenhain TNC 135	1.600	1.000	1.600	1.120	1.100	3.000
CME	Heidenhain TNC 426 CB	2.500	1.200	1.030	2.700	1.000	600
Correa	Heidenhain TNC 410 P	2.500	800	800	2.500	700	4.000
Soraluce	Heidenhain TNC 415 B	4.500	1.600	900	6.000	850	No Limit

Turning Machines

Model	CNC	Dimension mm.	
		Max. Diameter	Max. Length
Guruzpe	8050 TC	1.500	6.000
Cazeneuve	-	810	4.000
Nervión	-	645	1.500
CMZ	-	420	1.000

Other Facilities

- > Radial milling machine.
- > Plate bending rolls 3000 mm x 15 mm.
- > Plate shear machine for 15 mm thickness.
- > Continuous saw.

Manufacturing facilities :

Manufacturing facilities area of **5000 m2** is located at Humanes de Madrid – **MADRID**, where you can find the **Engineering department, Machining area, Pre-erection, Test and Trials**, prior to **Expedition to Customer plant** for final erection.



REFERENCES



www.cinser.eu

REFERENCES

DESIGNATION	SPECIFICATION	CLIENT	DATE
Ref. 87001 TENSION LEVELLING LINE Aluminium	Width = 1650 mm	ALCASA Venezuela	1987
Ref.86010 SLITTING LINE - Aluminium	Width=1250 Thickness=0,25-3 mm	COSIM-ALCASA Venezuela	1987
Ref. 87007 SLITTING LINE – Aluminium Revamping	Width=1650 Thickness=0,25-2 mm	INESPAL-ALCOA Alicante - Spain	1988
Ref. 87008 SLITTING LINE – Aluminium Revamping	Width=1650 Thickness=0,25-2 mm	INESPAL-ALCOA Alicante - Spain	1988
Ref. 87009 SLITTING LINE – Aluminium	Width=1250 Thickness=0,3-4 mm	ALUSERVICE Barcelona - Spain	1988
ALUMINIUM - SLITTING LINE		AUXMET France	1988
ALUMINIUM SLITTING LINE		AUXMET France	1989
Ref. 88004 CUT TO LENGTH- Aluminium	Width=1800 Thickness=0,25-2mm	INESPAL – ALCOA Alicante - Spain	1989
Ref. 88015 CUT to LENGTH LINE Stainless Steel	Width= 1500 Thickness=0,6-3 mm	ACERINOX – Algeciras - Spain	1989
Ref. 89014 TENSION LEVELLING LINE & DEGREASING - Aluminium	Width = 1650 mm.	INESPAL – ALCOA Alicante - Spain	1990
MAINTENANCE – PAINTING		ALCASA Venezuela	1991
Ref.90002 SLITTING LINE - Aluminium	Width= 1500 Thickness=0,25-2 mm	AUXMET- INESPAL-ALCOA Alicante - Spain	1991
Ref.90008 SLITTING LINE - Aluminium	Width= 750 Thickness=0,25-3 mm	INESPAL-ALCOA Amorebieta - Spain	1991

REFERENCES

DESIGNATION	SPECIFICATION	CLIENT	DATE
Ref.90009 SLITTING LINE - Aluminium	Width= 1800 Thickness=0,25-3 mm	INESPAL –ALCOA Amorebieta - Spain	1991
Ref.90008 bis. SLITTING LINE – Aluminium Revamping	Width=1250 Thickness=0,25-3 mm	INESPAL –ALCOA Amorebieta - Spain	1991
Ref. 91002 SLITTING LINE – Aluminium Revamping	Width=1700 Thickness=0,25-2 mm	INESPAL-ALCOA Alicante - Spain	1992
Ref. 91003 SLITTING LINE – Aluminium Revamping	Width=1850 Thickness=0,25-2 mm	INESPAL-ALCOA Alicante - Spain	1992
Ref. 91004 STACKING LINE-Aluminium	Width= 1600 Thickness=0,25-3 mm	INESPAL – ALCOA Alicante - Spain	1992
PRESS FEEDING		GONVARRI BURGOS Spain	1992
Ref.91001 COATING LINE - Aluminium	Width=1800 mm	ALCASA - Venezuela	1992
Ref.92303 CUT to LENGTH - Aluminium	With= 1800 Thickness= 8 mm	COSIM - EGYPTALUM – Egypt	1992
Ref.92304 CUT to LENGTH - Aluminium	With= 1800 Thickness= 1 mm	COSIM - EGYPTALUM – Egypt	1992
Ref.92305 CUT to LENGTH - Aluminium	With= 1800 Thickness= 3 mm	COSIM - EGYPTALUM – Egypt	1992
Ref. 92302 TRIMMING LINE - Aluminium	Width=1800 mm Thickness=3 mm	COSIM – EGYPTALUM Egypt	1993
Ref. 92301 SLITTING LINE - Aluminium	Width=1800 Thickness=0,25-2mm. V= 500 m/min	COSIM- EGYPTALUM – Egypt	1993

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LONGITUDINAL SLITTING LINE 165	Width=2050 Thickness=0,25-3mm V=250M/MIN	GONVARRI Portugal	1994
Ref. 95001 SLITTING LINE - Aluminium	Width=1500 Thickness=0,15-4mm Coil Weight=9 TON	HINDALCO Industries Ltd. – India	1995
MAINTENANCE LINE	Coil Diam.=1900 Coil Weight=4 TON	GONVARRI Portugal	1996
Ref.97002 SLITTING LINE – Aluminium	Width=650 Thickness 0,4- 3mm Coil Weight=10 TON	MASPION GROUP – Indonesia	1998
TENSION LEVELLING LINE Aluminium	Width=1600 Coil Weight=29 TON	SIDERAR S.A.I.C. – Argentina	1997
PICKLING LINE	Width=1850 Thickness=1,5-6mm V=110 M/MIN	FERRODISA	1997
Ref.95016 SLITTING LINE - Aluminium	Width=1300 Thickness=0,15-1mm V=500 M/MIN	INDAL / HINDALCO INDUSTRIES LTD. - India	1998
Ref. 98001 CUT TO LENGTH- Aluminium	Width=1850 Thickness=0,4-3mm V=90 M/MIN	ALUMINIUM KONIN – Poland	1998
LONGITUDINAL SLITTING LINE 190	Width=2050 Thickness=0,25-3mm V=250 M/MIN	GONVARRI - Brazil	1998
MAINTENANCE LINE	Coil Diam.=2000 Coil Weight=5TON	GONVARRI IND. Morocco	1998
Ref. 99001 Stainless Steel CUT to LENGTH LINE	Width=600 Thickness=0,3- 3mm, Coil Weight=10 TON	ACERINOX, S.A. – Barcelona - Spain	1999
Ref. 99005 Stainless Steel CUT to LENGTH LINE	Width=1580/300 Thickness=0,6-3mm, Coil Weight=10 TON	ACERINOX, S.A. – Barcelona - Spain	1999

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SLITTING LINE 190	Width=2000 Thickness=0,4-3mm Coil Weight=25 TON	PLANOS FERRICOS, S.A.	1999
Ref.98002 SLITTING LINE Carbon Steel	Width=2050 Thickness=0,25-3 mm V= 250 m/min	GONVARRI Campinas _ Brazil	1999
Ref.98003 CUT to LENGTH –TRAPEZIUM Carbon Steel	Width=2050 Thickness=0,25-3 mm V= 100 m/min	GONVARRI Campinas _ Brazil	1999
Ref.98010 STACKER - System Carbon Steel	Width=2050 Thickness=0,25-3 mm Weight= 5000 kg	GONVARRI Campinas _ Brazil	1999
Ref.L0005 CUT TO LENGTH LINE Carbon Steel	Width=2050 Thickness=2-8 mm V= 75 m/min	GONVARRI Campinas _ Brazil	1999
Ref. 99005 CUT TO LENGTH – Stainless Steel	Width=1580 Thickness=0,6-3 mm V= 40 m/min	ACERINOX Barcelona - Spain	2000
Ref. 99006 STACKING LINE –Stainless Steel	Width= 600 Thickness=0,3- 3 mm	ACERINOX Barcelona - Spain	2000
Ref. 99007 STACKING LINE –Stainless Steel	Width= 1580 Thickness=0,6-3 mm	ACERINOX Barcelona - Spain	2000
Ref. L0001 SLITTING LINE- Aluminium	Width=650 Thickness=0,2- 3 mm	PT ALUMINDO – Indonesia	2000
Ref.L006 SLITTING LINE Carbon Steel	Width=2050 Thickness=1-8 mm V= 150 m/min	GONVARRI Campinas _ Brazil	1999
Ref.L0007 STACKING System Carbon Steel	Width=2050 Thickness=0,25-3 mm Weight= 5000 kg	GONVARRI Campinas _ Brazil	2001
Ref. L0011 CUT TO LENGTH LINE Carbon Steel	Width=2050 Thickness=2-8 mm V= 75 m/min	GONVARRI Sao Paulo - Brazil	2001

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Ref.L0012 SLITTING LINE Carbon Steel	Width=2050 Thickness=1-8 mm V= 150 m/min	GONVARRI Sao Paulo - Brazil	2001
Ref. L0014 PICKLING LINE	Width=2050 Thickness=1,5-8 mm V= 100 m/min	GONVARRI Sao Paulo - Brazil	2001
Ref. L0015 CUT TO LENGTH LINE Carbon Steel	Width=2050 Thickness=4-16 mm V= 45 m/min	GONVARRI Sao Paulo - Brazil	2001
Ref. L0016 COILS PACKAGING LINE	(Width=2050 Thickness=4-16 mm) Coil weight= 5 t	GONVARRI Sao Paulo - Brazil	2001
Ref. M5000 Stainless Steel CUT TO LENGTH LINE	Width=1500 Thickness=0,4-3.2mm V=70 M/MIN	UGINE IBERICA – BARCELONA Spain	2001
Ref. M5080 CUT TO LENGTH LINE Stainless Steel	Width=1500 Thickness=0,4-1,5	UGINE – Gonesse – France	2001
CUT TO LENGTH LINE	Width=1650 Thickness=0,4-3.5mm V=100 M/MIN	MANAGE STEEL CENTER SA – Belgium	2001
Ref. L0018 TENSION LEVELLING LINE - Aluminium	Width=1600 Thickness=3-03 V= 15 m/min	ALUMINIUM KONIN - Poland	2001
Ref. M5240 TENSILON LEVELLING &	Width=1660 Thickness=3-03 V=15 M/MIN	PROFILGLASS – Italy	2002
Ref. M5160 TENSION LEVELLING-Aluminium	Width= 1650 Thickness=3-03 V= 15 m/min	PT ALUMINDO – Indonesia	2002
Ref. M5190 TENSION LEVELLING Aluminium	Width= 1650 Thickness=3-03 V= 15 m/min	PT STARMAS – (ALEXINDO) Indonesia	2002

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Ref. M5090 SLITTING LINE- Stainless Steel	Width=1550 Thickness=0,4-3 mm V= 100 m/min	UGINE Barcelona - Spain	2002
Ref. M5130 SLITTING LINE- Stainless Steel	Width=1000 Thickness=0,3-1,5 mm V= 70 m/min	ACERINOX MADRID - Spain	2002
PICKLING LINE	Width=1560 Thickness=0,3-4mm V=125 M/MIN	GONVARRI IND. Morocco	2002
Ref.M5100 PRESS FEEDING LINE Carbon Steel	Width=2050 Thickness=0,25-1,5 V=100 m/min	GONVARRI Curitiba - Brazil	2003
Ref.M5260 MAGNETIC TENSIONING LINE- Aluminium	Width=1675 Thickness= 0,8 mm	HELLENIC ALUMINIUM Grece	2003
Ref. M5380 SLITTING LINE -Aluminium	Width=1900 Thickness=0,15-1 mm	RUSAL - Russia	2003
Ref. M5390 SLITTING LINE - Aluminium	Width=1550 Thickness=0,15-3,5mm V= 200 m/min	ALFUN S.R.O. - Czech Republic	2003
Ref. M5310 TENSION LEVELLING – Aluminium	Width = 1650	INDAL - India	2003
Ref.M5220 SLITTING LINE Stainless Steel	Width=1500 Thickness=0,4-3 mm V= 100 m/min	DVP - THYSSEN Barcelona - Spain	2003
Ref.M5230 SURFACE GRINDING LINE Stainless Steel	Width=1500 Thickness=0,4-3 mm V= 13 m/min	DVP - THYSSEN Barcelona - Spain	2003
CUT to LENGTH LINE	Width=2000 Thickness=8mm Coil Weight=35 TON	GONVARRI Portugal	2003

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CUT to LENGTH - TRAPEZIUM LINE	Width=2050 Thickness=0,3-1,5mm V=100M/MIN	GONVARRI Portugal	2003
Ref. M5420 SLITTING LINE – Aluminium	Width=1650 Thickness=0,12-2 mm.	ALCOA – KOFEM Hungary	2004
CUT to LENGTH LINE	Width=1050 Thickness=0,15-0,5mm V=120M/MIN	FAROKHSHAHR STEEL – Iran	2004
SLITTING LINE	Width=1500 Thickness=0,5-4mm V=100M/MIN	KOVONA KARVINA, A.S – Czech Republic	2004
Ref.M5320 TENSION LEVELLING LINE – Aluminium	Width = 1650	Cia. VALENCIANA de ALUMINIO – Valencia - Spain	2004
CUT TO LENGTH LINE	Width=2050 Thickness=12mm Coil Weight=25 TON	UTVA SILOSI- MONTENEGRO Servia	2005
Ref. M5400 SITTING (Dividing Coil) & TRIMMING LINE - Aluminium	Width= 2000 Thickness=0,2-3 mm	Cia. BRASILEÑA ALUMINIO Sao Paulo - Brazil	2005
Ref. M5540 SLITTING LINE – Stainless Steel	Width=1550 Thickness=0,3-4 mm	UGINE Barcelona - Spain	2006
ALUMINIUM TENSION LEVELLING LINE	Width=1650 Thickness=0,3-3mm Coil Weight=12 TON	SOUTHERN ALUMINIUM - China	2006
ALUMINIUM COIL TO COIL & TRIMS SLITTER LINE	width=1280 Thickness= 0,2–1,5mm V=150M/MIN	ALCOA Spain	2007
STAINLESS STEEL REVAMPING SLITTING LINE	Width=1500 Thickness= 0,2–3mm V=150 M/MIN	ACERINOX -Spain	2007

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STAINLESS STEEL REVAMPING CUT TO LENGTH LINE	Width=2000 Thickness=0,2 –3mm V=40M/MIN	ACERINOX -Spain	2007
REF. M1620 CUT TO LENGTH -ALUMINUM	Width=1600, Thickness=0,4–3mm V=50M/MIN	Aluminios Andalucia – Apliband – Madrid- Spain	2008
REF. M5590 STAINLESS STEEL CUT TO LENGTH LINE	Width= 1600, Thickness=0,3–4mm V=60M/MIN	ACESITA – Brazil	2008

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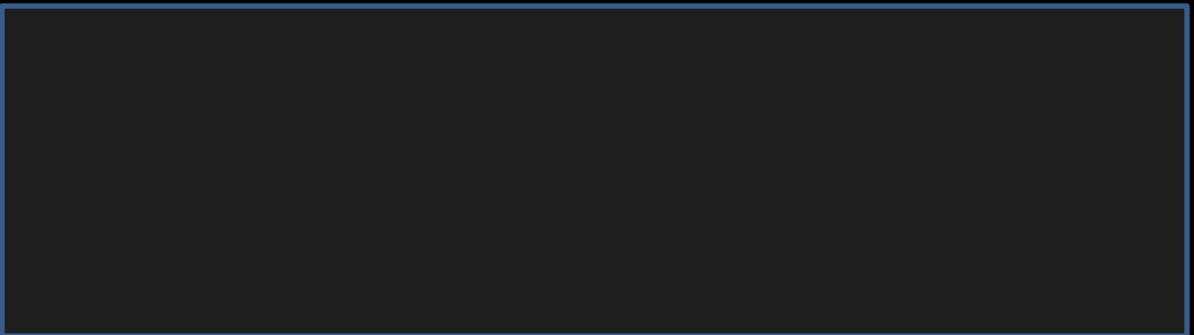
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