



# PRECISION



# FLEXIBILITY

CUSTOMER SATISFACTION THROUGH  
PRECISION PRODUCTS & FLEXIBLE SERVICES

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## **PT. BINA NIAGA MULTIUSAHA (BNM)**

**WE COMBINES TWO (2) KEY ELEMENTS IN OUR BUSINESS PROCESS: PRECISION & FLEXIBILITY. PRECISION SYMBOLIZES OPERATIONAL EXCELLENCE AND FLEXIBILITY BRINGS INTANGIBLE ADDED VALUE TO OUR CUSTOMERS. THIS IS THE UNIQUENESS & DISTINCTION THAT POSITIVELY DIFFERENTIATE BNM FROM OTHER MILLS. THE COMBINATION OF PRECISION IN PRODUCTION AND FLEXIBILITY IN SERVICE IS BNM'S PHILOSOPHY.**



**WE  
BELIEVE  
IN**



**PRECISION IS MORE THAN ACCURACY AND ATTENTION TO DETAIL. IT IS BEYOND THAT, IT IS ABOUT CARE, PASSION, AND APPRECIATION OF EACH CUSTOMER NEED OF PRODUCT SPECIFICATIONS. EACH PRODUCT SPECIFICATION IS RIGOROUSLY STUDIED & CONFIDENTLY PRODUCED THROUGH STATE OF THE ART EQUIPMENTS AND MACHINERIES. SUCH STATE OF PHILOSOPHY ENABLES US TO CONSISTENTLY DELIVER HIGH QUALITY PRODUCTS TO EACH CUSTOMER.**

**FLEXIBILITY IS ALL ABOUT LISTENING, UNDERSTANDING AND DELIVERING EACH CUSTOMER'S UNIQUE NEEDS. WE REALIZE THAT EVERY CUSTOMER HAS HER OWN PRODUCT STANDARDS THAT ARE DISTINCT TO OTHERS, AND WE ARE COMMITTED TO SATISFY EACH OF THOSE UNIQUE REQUIREMENTS. OUR ABILITY TO DELIVER FLEXIBLE SERVICES, RANGING FROM CUSTOMIZED PRODUCT SPECIFICATIONS TO CUSTOMIZED ORDER QUANTITY, REFLECTS OUR COMMITMENT AND PASSION TO EXCEL IN CUSTOMER SATISFACTION.**





USA

UK

EUROPE

CHINA

SOUTH KOREA

INDIA

HONG KONG


THAILAND

TAIWAN

MALAYSIA

SINGAPORE

INDONESIA



LOCATED IN THE PRESTIGIOUS JABABEKA INDUSTRIAL ESTATE PHASE TWO, CIKARANG , INDONESIA, OUR STAINLESS STEEL ROLLING MILL WAS BUILD ON AN AREA OF 15,000 M<sup>2</sup>. SINCE OUR ESTABLISHMENT IN 1996, PT BINA NIAGA MULTIUSAHA (BNM) HAS CONTRIBUTED IN DEVELOPING ELECTRONIC, CHEMICAL, AUTOMOTIVE, AND MEDICAL INSTRUMENT INDUSTRIES.





CURRENTLY, BNM'S PRODUCTION CAPACITY OF 6,000 MT PER YEAR IS SUPPORTING MULTINATIONAL CUSTOMERS SUCH AS TOYOTA, HONDA, SUZUKI, SAMSUNG, NOKIA, LG, TOSHIBA, FUJITSU, ETC. WITH 150 EXPERTS IN THEIR RESPECTIVE FIELDS, WE DELIVER PRECISION STAINLESS STEEL PRODUCTS AROUND THE WORLD.







OUR PRODUCT IS A PRECISION COLD-ROLLED STAINLESS STEEL WITH STRINGENT ACCURACY IN SIZE DIMENSION, MECHANICAL PROPERTIES AND SURFACE FINISH. IT IS HIGHLY CUSTOMIZABLE DEPENDING ON EACH CUSTOMER'S REQUIREMENT.

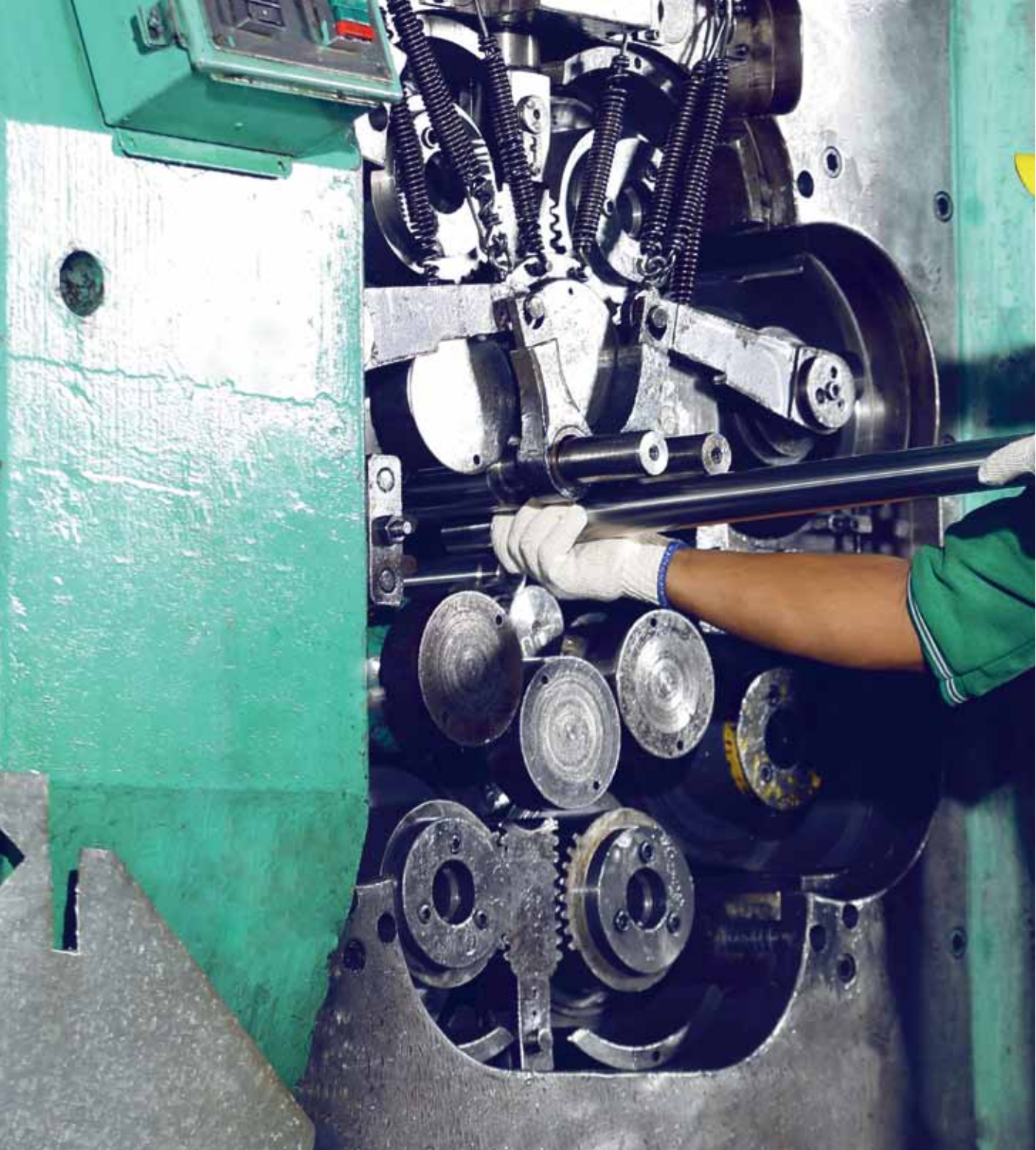




## GRINDING

PERFECT QUALITY FROM THE BEGINNING TO THE END OF A PRODUCTION PROCESS IS THE NORM IN THE STAINLESS STEEL MILLS. KEEPING THAT IN MIND, WE HAVE THE LATEST CNC ROLL-GRINDING MACHINE TO SUPPLY PERFECTLY GROUND ROLLS WITH PRECISE TOLERANCE OF MAXIMUM 3 MICRONS FROM END TO END, AS WELL AS ACCURATE ROLL ROUGHNESS RANGING FROM 0.05 RA TO 0.40 RA.







## 20 HI SENDZIMIR MILL

A STATE-OF-THE-ART STAINLESS STEEL 20 HIGH COLD ROLLING MILL MANUFACTURED BY I<sup>2</sup>S - USA IS ABLE TO ROLL COLD-ROLLED STAINLESS STEEL COILS FROM 2.5 MM THICKNESS DOWN TO THE FINAL THICKNESS OF 0.05 MM, WHILE STILL CONSISTENTLY MAINTAINING SURFACE QUALITY, EXCELLENT STRIP FLATNESS AND THICKNESS VARIATION WITHIN A MAXIMUM RANGE OF 3 MICRONS.





DEGREASER

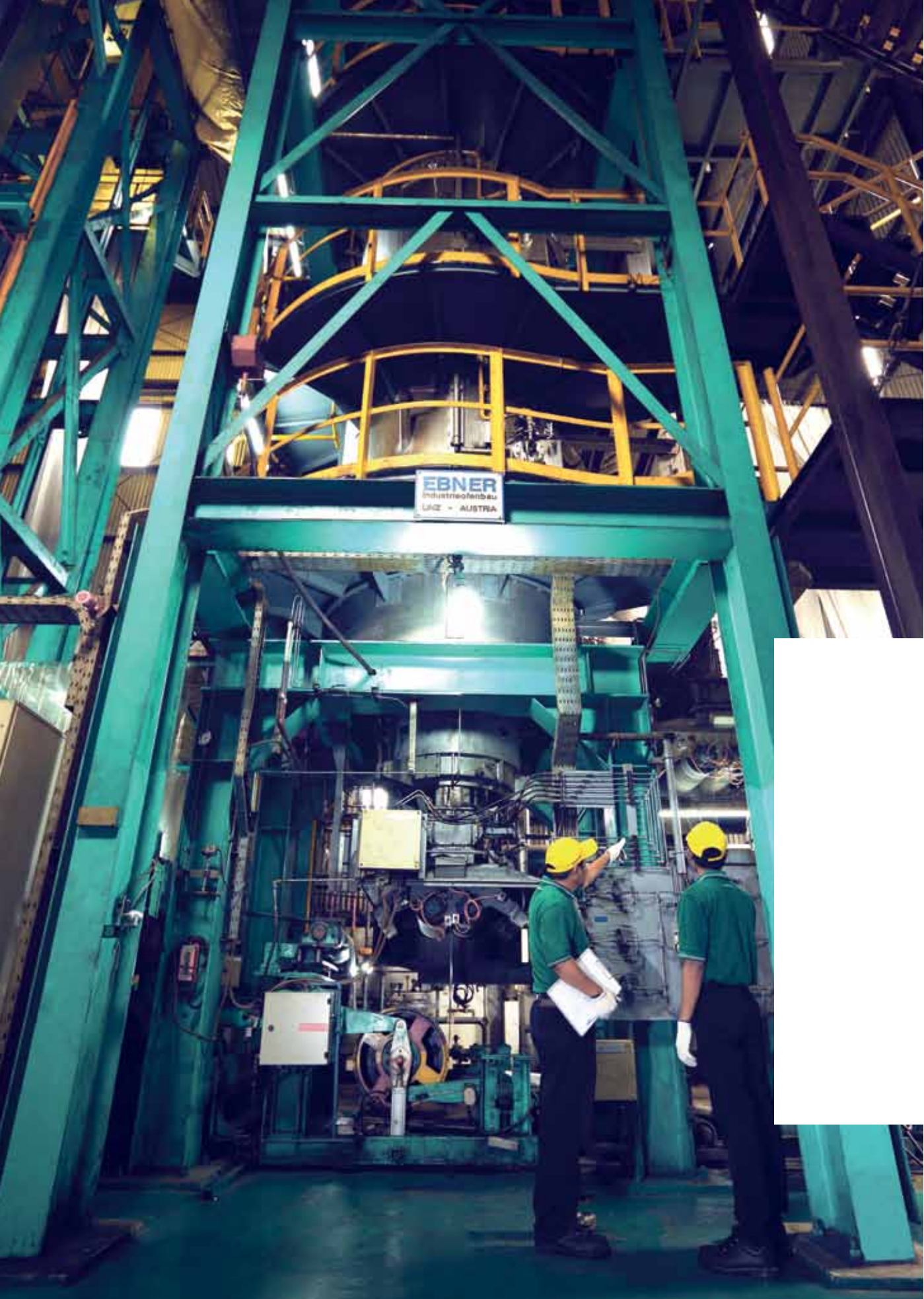


## **DEGREASING LINE**

IT PERFECTLY REMOVES THE OIL RESIDUE CARRIED BY THE STRIP FROM COLD ROLLING MILL BY THE ACTION OF ALKALINE AND HOT RINSING, BEFORE THE COILS ARE SEND TO BRIGHT ANNEALING OR SLITTING.







EBNER  
Industriofenbau  
LINZ - AUSTRIA

## **VERTICAL BRIGHT ANNEALING LINE**

A VERTICAL BRIGHT ANNEALING LINE MANUFACTURED BY EBNER - AUSTRIA IS DESIGNED WITH THE PROVEN MUFFLE CONCEPT TO MAKE USE OF THE PURE HYDROGEN ATMOSPHERE WITH LOWEST DEWPOINT (-60 °C) TO MAINTAIN AN OXIDATION-FREE PROCESS. THE RESULT IS A CLEAN, DAMAGE-FREE SURFACE AS WELL AS PERFECT MECHANICAL VALUES IN THE ANNEALED STRIPS. EBNER TECHNOLOGY CAN PROCESS STRIP WITH A VERY HIGH WIDTH TO THICKNESS RATIO. THE STRIP DIMENSIONS TO BE PROCESSED AT THIS FACILITY ARE BETWEEN 1 MM AND 0.1 MM THICKNESS AND UP TO 500 MM WIDTH WITH TEMPERATURES RANGING UP TO 1150 °C.







## SKIN PASS MILL

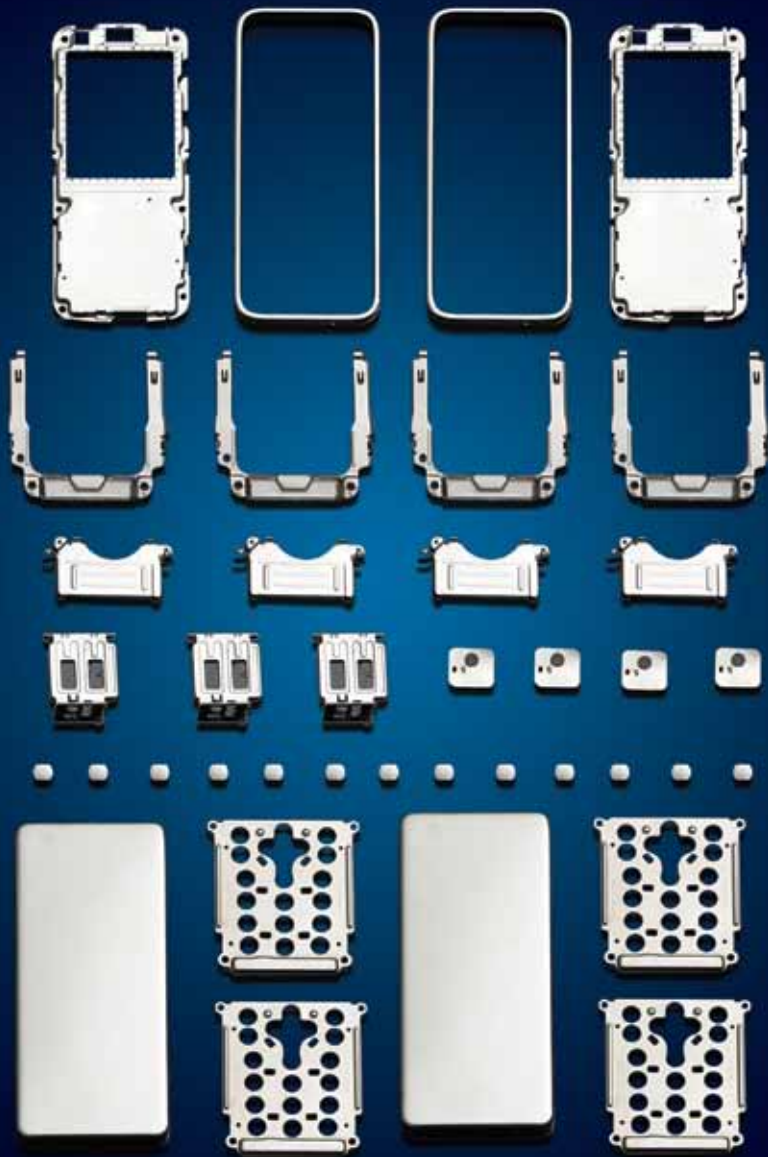
THE SKIN PASS MILL IMPROVES MECHANICAL PROPERTIES, FLATNESS AND BRIGHTNESS OF THE STAINLESS STEEL STRIP. THE MAXIMUM WIDTH IS 500 MM WITH THICKNESS RANGE OF 1.00 MM TO 0.10 MM, AND MAXIMUM BRIGHTNESS OF SOFT PRODUCTS IS BETWEEN 500 – 600 GU.





## **SLITTING LINE**

IT PRECISELY CONTROL THE STRIP WIDTH & BURR LEVEL BY METICULOUSLY SETTING THE PRECISION CIRCULAR SLITTING KNIVES & SPACERS ON THE ARBOR. THE MINIMUM SLIT WIDTH CAN BE AS NARROW AS 5 MM.



## HANDPHONE PARTS

SIM CARD HOLDER

OUTER CASING

INNER CASING

KEYPAD





## **ELECTRICAL/ELECTRONIC PARTS**

LITHIUM MERCURY CELLS  
COMPUTER HARD DISC DRIVE  
DVD & VCD PLAYER PART  
TELEVISION PART  
PAPER CUTTER  
BATTERY HOLDER  
BLENDER KNIFE



## **AUTOMOTIVE/VEHICLE PARTS**

ENGINE GASKET

BRAKE SYSTEM

WINDOW CAR RIMMING

COVER MAGNET

PISTON RING

TRANSMISSION SPRING



## INDUSTRIAL PARTS

GAS PIPE BANDING

TOWER PACKING

CABLE TIE

FLEXIBLE HOSE

CORRUGATED FLEXIBLE

SPIRALLY WOUND TUBE

COIL SPRING





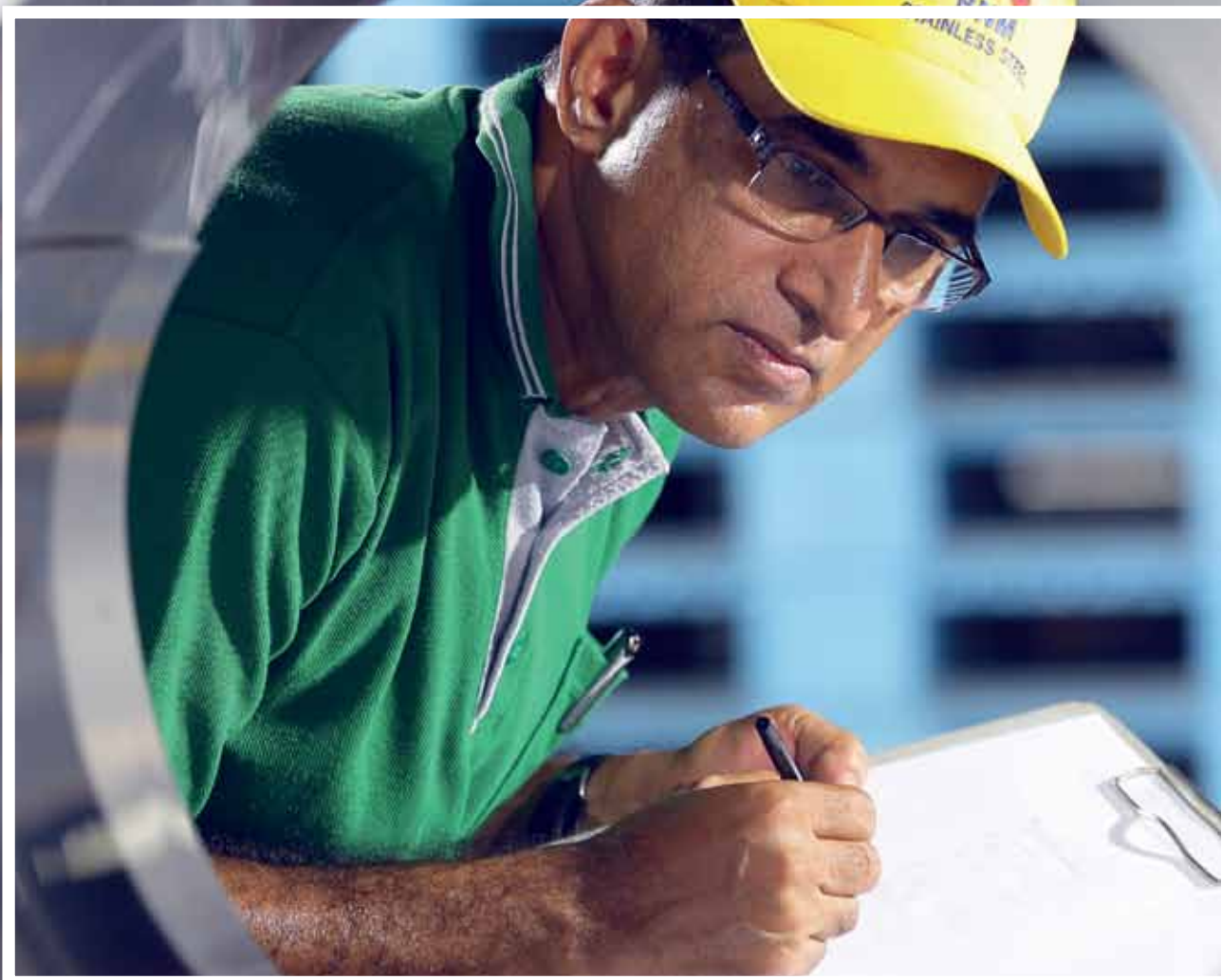
## MEDICAL INSTRUMENTS

NEEDLE SYRINGE  
LABORATORY DEVICE



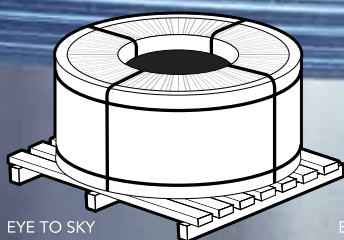
IN ORDER TO DELIVER THE ASSURED QUALITY, ALL MATERIAL FROM RAW MATERIAL UNTIL FINISHED GOODS ARE INSPECTED & TESTED BEFORE DELIVERED TO CUSTOMER. TO ENSURE THE COMPLIANCE WITH CUSTOMER'S REQUIREMENT BNM HAS A QUALITY CONTROL LABORATORY, WHICH IS EQUIPPED WITH MODERN TESTING.

- HARDNESS TEST MACHINE
- YIELD AND TENSILE STRENGTH MACHINE
- BRIGHTNESS AND ROUGHNESS TESTING MACHINE

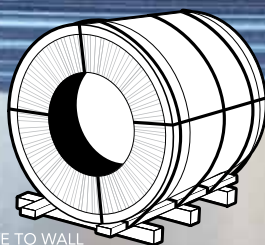




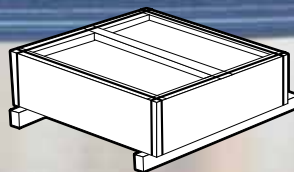
GETTING THE PRODUCT SAFELY TO CUSTOMER IS AS IMPORTANT AS MAKING THE QUALITY PRODUCT. WHICH IS WHY BNM HAS IMPLEMENTED SEVERAL PACKAGING MODELS TO ENSURE NO DAMAGE OCCURS TO THE COILS.



EYE TO SKY  
CUSTOMIZED  
PACKAGING



EYE TO WALL  
CUSTOMIZED  
PACKAGING



LCL SHIPMENT

# TECHNICAL INFORMATION

GRADE	IS INDIA	AISI USA	DIN GERMANY	AFNOR FRANCE	JIS JAPAN	BS BRITIAN	SIS SWEDEN	UNS	UNI ITALY
SS 301	X10 Cr 17Ni 7	301	1.4310	Z 12 CN 17-08	SUS 301	301 S 21	142331	S 30100	X12 Cr Ni 1707
SS 304	X02 Cr 19 Ni 10	304	1.4301	Z 6 CN 18-19	SUS 304	304 S 15	142333	S 30400	X5 Cr Ni 1810
SS 304L	-	304L	1.4306	Z 2 CN 18-10	SUS 304 L	304 S 11	142352	S 30303	X2 Cr Ni 1811
SS 310S	-	310S	1.4845	-	SUS 310 S	-	142361	S 31008	X6 Cr Ni 2520
SS 316	X04 Cr 17 Ni 12 Mo 2	316	1.4401	Z 6 CND 17-11	SUS 316	316 S 31	142347	S 31600	X8 Cr Ni Mo 1713
SS 316L	X02 Cr 17 Ni 12 Mo 2	316L	1.4404	Z 2 CND 17-12	SUS 316 L	316 S 31	142338	S 31603	X2 Cr Ni Mo 1712
SS 321	X04 Cr 18 Ni 10 Ti 20	321	1.4878	Z 6 CNT 18-12	SUS 321	321 S 31	142337	S 32100	X6 Cr Ni Ti 1811
SS 409	-	409	1.4521	Z 5 CT 12	SUS 409	409 S 17	-	S 40900	-
SS 410S	-	410S	-	-	-	-	-	-	-
SS 430	X10 Cr 17	430	1.4016	Z 8 C 17	SUS 430	430 S 17	142320	S 43000	X12 Cr 17C
SS 409M	-	-	-	-	-	HYFAB 3/12	-	-	-

**EQUIVALENT SPECIFICATIONS:  
STAINLESS STEELS**

**GRADE**

	C (Max)	Si (Max)	Mn	Cr	Ni	P (Max)	S (Max)	N (Max)	Other Elements
301	0.15	1.00	2.00 max	16.00 - 18.00	6.00 - 8.00	0.045	0.030	0.1	-
301L	0.03	1.00	2.00 max	16.00 - 18.00	6.00 - 8.00	0.045	0.030	0.2	-
304	0.07	0.70	2.00 max	17.5 - 19.5	8.00 - 10.50	0.045	0.030	0.1	-
304L	0.03	0.75	2.00 max	17.5 - 19.5	8.00 - 12.00	0.045	0.030	0.1	-
310S	0.08	1.50	2.00 max	24.00 - 26.00	19.00 - 22.0	0.045	0.030	-	-
316	0.08	0.75	2.00 max	16.00 - 18.00	10.00 - 14.00	0.045	0.030	0.1	Mo 2.0-3.0
316L	0.03	0.75	2.00 max	16.00 - 18.00	10.00 - 14.00	0.045	0.030	0.1	Mo 2.0-3.0
321	0.08	0.75	2.00 max	17.00 - 19.00	9.00 - 12.00	0.045	0.030	0.1	Ti=5X(C+N) Min/0.70 max
SSLNQ	0.12	0.75	10.5 max	14.5 - 15.5	0.30 - 1.00	0.075	0.015	0.20	Cu 2.0 max
SSLN1	0.12	0.75	10.0 max	14.00 - 16.00	0.90 - 1.70	0.075	0.030	0.20	Cu 2.2 max
SSLN4	0.1	0.75	8.0 max	14.00 - 17.00	3.80 - 4.70	0.070	0.030	0.15	Cu 2.2 max
204Cu	0.15	1.00	6.50-9.00	15.5 - 17.5	1.5 - 3.5	0.060	0.030	0.25	Cu 2.0-4.0
409	0.03	1.00	1.00 max	10.50 - 11.70	0.50 max	0.04	0.02	0.03	Ti=6x(C+N) Min/0.50 max Nb 0.17 max
SS 409M	0.03	1.00	0.5-1.5	10.80 - 12.50	1.5 max	0.040	0.030	0.03	-
410S	0.08	1.00	1.00 max	11.50 - 13.50	0.6 max	0.040	0.030	-	-
420	0.15	1.00	1.00 max	12.00 - 14.00	0.75 max	0.040	0.030	-	Mo 0.5 max
430	0.12	1.00	1.00 max	16.00 - 18.00	0.75 max	0.040	0.030	-	-
439	0.03	1.00	1.00 max	17.00 - 19.00	0.5 max	0.040	0.030	0.03	Ti(0.2+4 (C+N) Min /1.1 max Al 0.15 max

## STANDARD GRADES & CHEMICAL COMPOSITION

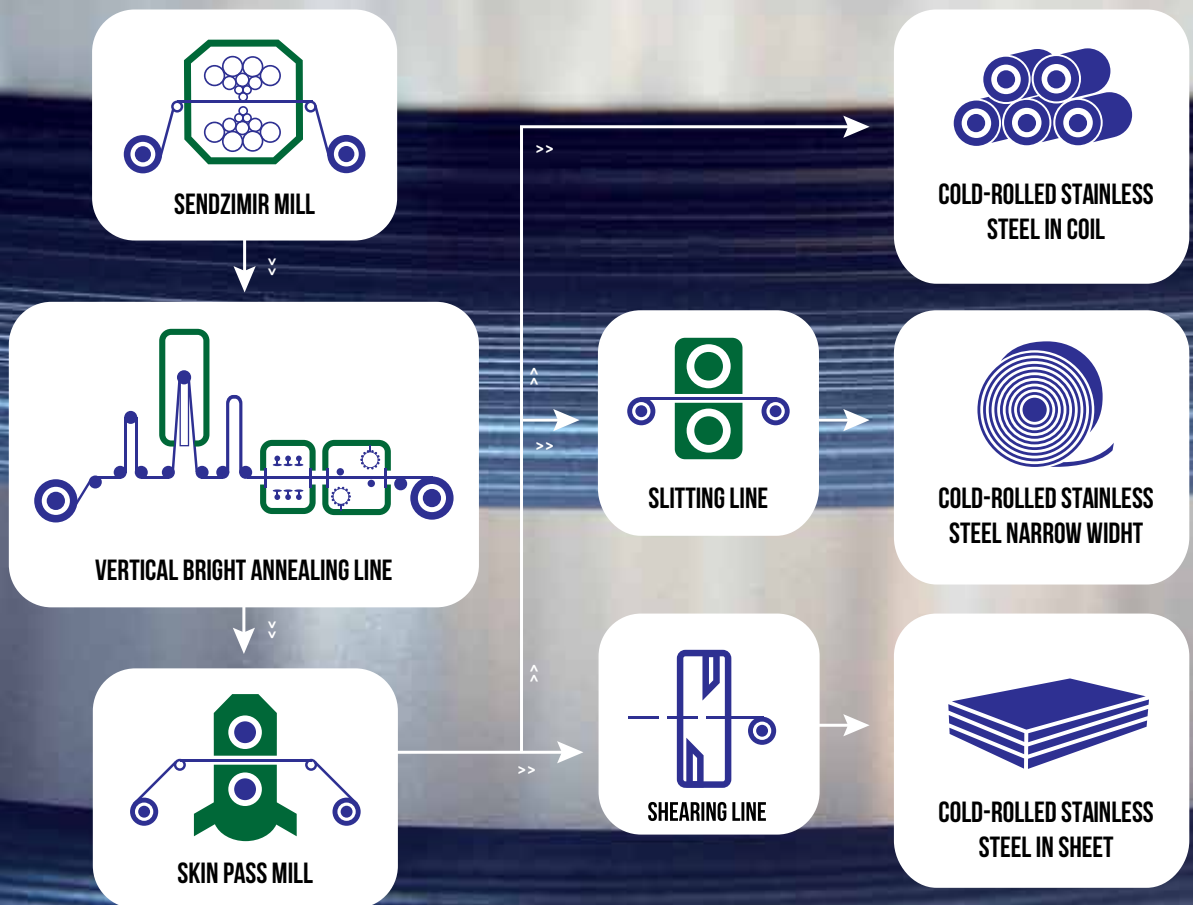
% CHEMICAL COMPOSITION (LADLE)



To ensure our product quality always consistent with the international standard, we utilize the latest technological breakthrough machinery SCRM 20 High Sendzimir Mill, Vertical Bright Annealing Line, Skin Pass Mill and Slitter Line. They are supplied by prominent suppliers such as I<sup>2</sup>S from USA and EBNER from Austria.

With the annual output capacity of 6000 MT of sheet and strip product, the Company is able to supply Stainless Steel grade 301, 304, 304L, 316L, 410S, 430 or other grades according to customer's request with thickness down to 0.05 mm and width down to 5 mm. These austenitic and ferritic grades can be produced either in Bright Annealing (BA) , Dull and Extra Dull finished products

## PRODUCTION PROCESS



# PRODUCT SPECIFICATION

GRADE	TEMPER	HARDNESS (HV) MAX	YIELD STRENGTH MIN (MPA)	TENSILE STRENGTH (MPA) MIN	ELONGATION (%) MIN	WIDTH RANGE (MM) MAX	THICKNESS (MM)	
							MAX	MIN
SS 304	ANNEALED	200	201	510	40	500	1.00	0.10
SS 316	ANNEALED	200	172	471	40			
SS 410 S	ANNEALED	200	172	402	20			
SS 430	ANNEALED	200	201	441	22			

Other

CAN BE DEFINED UPON REQUEST

## SOFT PRODUCT

GRADE	TEMPER	HARDNESS (HV) MIN	YIELD STRENGTH (MPA) MIN	TENSILE STRENGTH (MPA) MIN	ELONGATION (%) MIN	WIDTH RANGE (MM) MAX	THICKNESS (MM)	
							MAX	MIN
SS 301	1/4 H	175	275	755	20	400	0.70	0.10
	1/2 H	310	500	912	10	400	0.70	0.08
	3/4 H	370	736	1108	5	400	0.70	0.08
	H	430	1010	1294	2	400	0.70	0.06
	EH	490	1255	1540	1.5	150	0.50	0.06
	S EH	525	1599	1697	1	150	0.50	0.05
SS 304	1/4 H	220	422	726	30	400	0.70	0.10
	1/2 H	250	598	834	25	400	0.70	0.08
	3/4 H	330	745	971	12	400	0.70	0.08
	H	375	951	1196	3	400	0.70	0.06
SS 316	1/4 H	310	518	862	8	400	0.70	0.10
SS 201	H	450	965	1276	8	400	0.70	0.10

Other

CAN BE DEFINED UPON REQUEST

## TEMPERED PRODUCT

## BRIGHT ANNEALING

- TO RECOVER THE NATURE OF STAINLESS STEEL STRIP.
- PERFECTLY BRIGHT SURFACE FINISH .
- FREE OF OXIDATION.
- MAXIMUM LINE SPEED 24 MPM
- MAXIMUM ANNEALING TEMPERATURE 1150 °C
- STRIP THICKNESS : 1.0 MM - 0.1 MM.
- WIDTH UP TO 500 MM





**BNM**  
Precision Stainless Steel



**HOTLINE**  
+6221 8983 2020

**PT. BINA NIAGA MULTIUSAHA**

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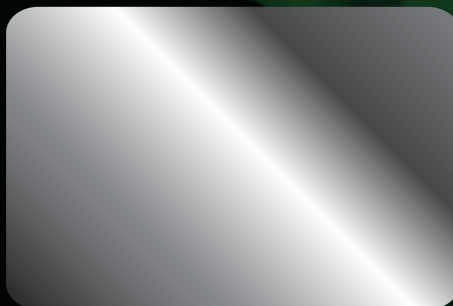
**THICK GAUGE**



**MEDIUM GAUGE**



**THIN GAUGE**



**SOFT PRODUCT**





## SENDZIMIR MILL

- TO ROLL COIL DOWN TO 0.05 MM.
- EXCELLENT STRIP FLATNESS.
- MAXIMUM THICKNESS TOLERANCE OF 3 MICRONS.

TEMPERED PRODUCT

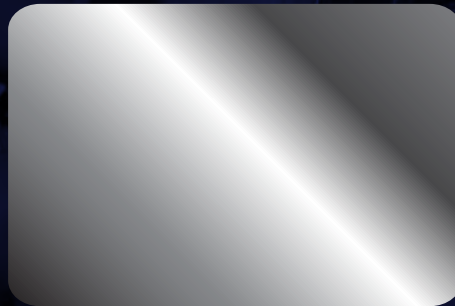




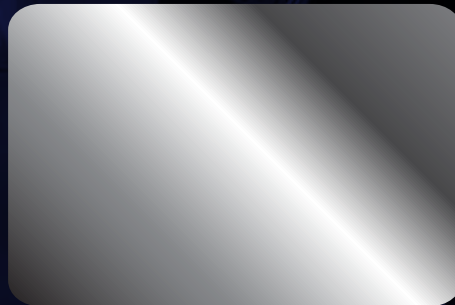
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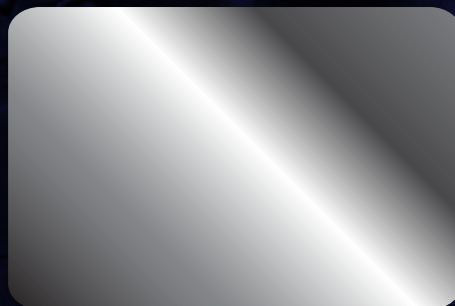
**THICK GAUGE**



**MEDIUM GAUGE**



**THIN GAUGE**



**TEMPERED PRODUCT**



## GRINDING MACHINE

- TO PRODUCE PERFECTLY GROUND ROLLS.
- MAXIMUM 3 MICRONS TOLERANCE.
- ROUGHNESS : 0.05 RA – 0.40 RA







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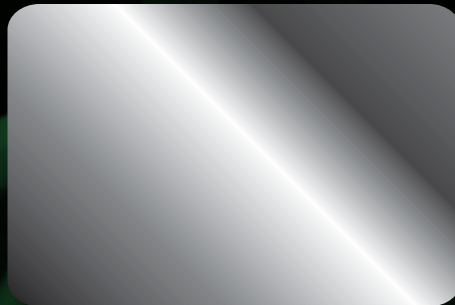
**EXTRA DULL**



**DULL**



**BRIGHT**



**SURFACE FINISH**





## **SLITTER LINE**

- TO SLIT COIL ACCURATELY TO REQUIRED SIZE.
- MINIMUM SLIT WIDTH 5 MM
- CONTROLLED BURR 3-7%



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**MINIMUM SLIT WIDTH CAN BE AS NARROW AS 5 MM**



**WIDTH 5.35 MM**



**WIDTH 8.15 MM**



**WIDTH 10.05 MM**



**WIDTH RANGE**

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