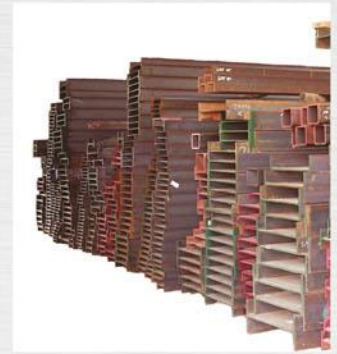


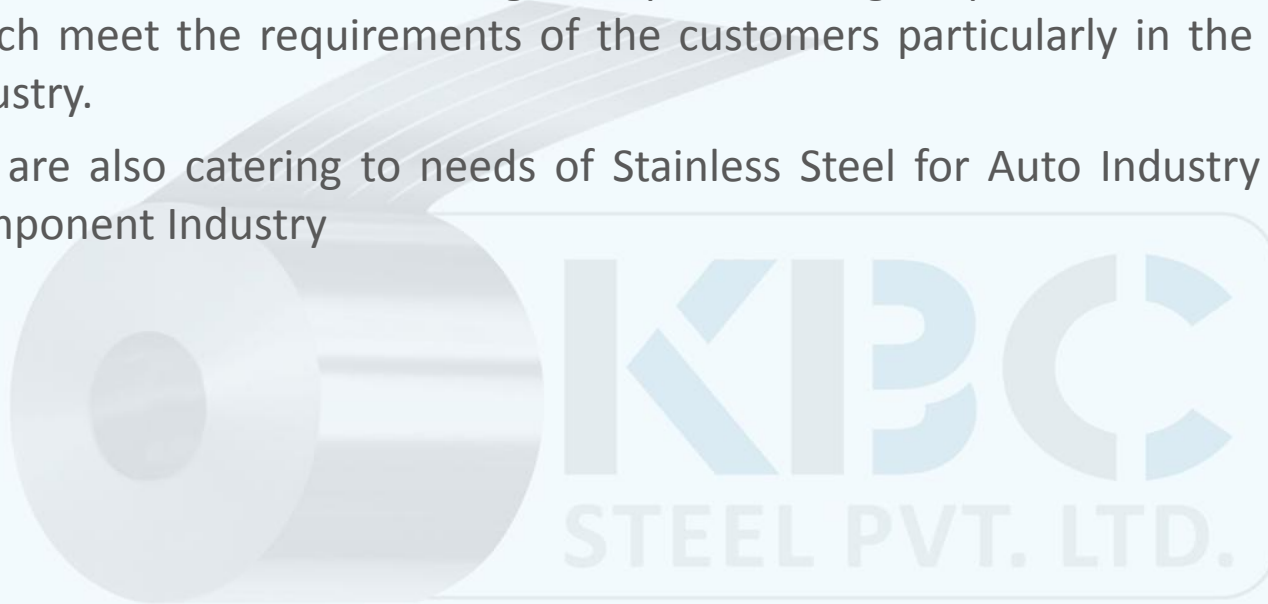


KBC STEEL PVT. LTD.

Aspiring to provide permanent solutions to your steel requirements.

Introducing KBC Steel as a Manufacturing Unit

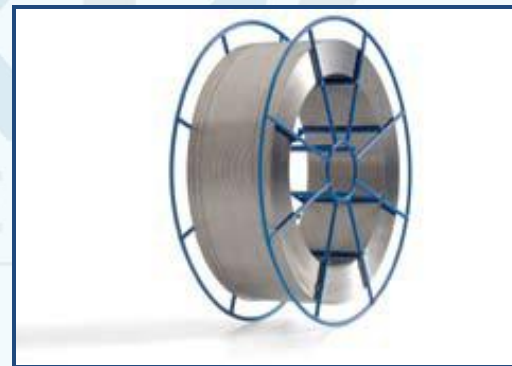
- Since inception in 2010 we are a Manufacturing Unit specialized in developing and supplying Sophisticated & Quality Cold Rolled Steel Strips of Micro Tolerance in wide range of qualities, e.g. Super EDD, IF Steel etc., which meet the requirements of the customers particularly in the welding industry.
- We are also catering to needs of Stainless Steel for Auto Industry & Auto Component Industry



KBC Steel in Action



KBC Steel in Action



PEOPLE behind KBC Steel

MR. RAJEEVA SINGH, Founder Director

25 years of experience in the Steel Industry and have been instrumental in the development of Steel of various grades and sizes for the Automobile, Welding and General Engineering.



Policy Statement Adopted at KBC Steel

Vision

“Becoming a global leader in providing permanent solutions to customers for their full steel requirement.”

Mission

“Developing more customized products and services thereby becoming a single stop shop for all requirement for steel industry customers to their satisfaction.”

Philosophy

“We believe in partnering with the customers rather than working for the customer.”

PRODUCTS at KBC Steel:

- Precision Steel Strips for Welding Industry
- Precision Steel Strips for the Automobile and General Engineering Industry



PRODUCT at KBC Steel

Precision Steel Strips for Welding Industry



PRODUCT at KBC Steel:

Precision Steel Strips for Welding Industry

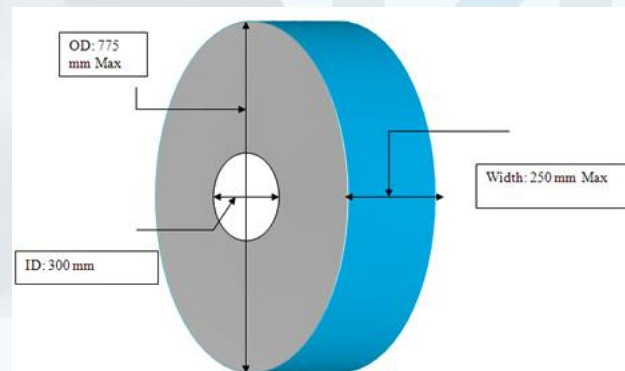
SPECN. PARAMETER	OUR SPECIFICATION
Grade :	D / DD / EDD *
Size :	8 to 20m x 0.15 to 0.80mm
Tolerance :	
On width	+ Nil - 0.25m
On thickness	+ 0.01 – 0.04mm
Mechanical Properties :	
Temper	Annealed & skin passed
Hardness	105 VPN Max
U T S	350 N / Sqmm Max
Y S	
Elongation	30 % Min on 50 mm G.L.
Erichsen Cupping Value	
Bend Test	
Surface	As rolled Normal Bright



PRODUCT at KBC Steel:

Precision Steel Strips for Welding Industry

SPECN. PARAMETER	OUR SPECIFICATION
Other Specification :	
Camber	10 mm Max / 2.0 meters
Oscillated Coil ID	300 – 400 mm
Coil OD	
Coil Weight	6.0 Kg/mm width max.
Oscillated Coil Weight	450 – 1250 Kgs
Pallet Weight	2.0 MT Max
Packing	“ DLP”(VCI/Rusto Paper + PVC/LLDPE + Alkathene Lined Hessian/HDPE (Seaworthy Packing)



Strip size specification		
Width	:	7 mm to 16 mm
Gauge	:	0.20 mm to 0.80 mm
Coil Wt	:	1250 Kg Max
Bobbin Size		
ID	:	300 & 400 mm
OD	:	1000 mm Approx
Traverse Width	:	250-300-350 mm
Weight of bobbin	:	1250 Kg Max

PRODUCT at KBC Steel

**Precision Steel Strips for the Automobile and
General Engineering Industry**



PRODUCT at KBC Steel:

Precision Steel Strips for the Automobile and General Engineering Industry

C R Strips – Size Range Thickness

MILD STEEL			MEDIUM/HIGH CARBON		
Overall Capability	Min	Max	Overall Capability	Min	Max
Annealed	0.10	3.50		0.10	3.00
Skin Passed	0.15	3.00			
Quarter Hard (QH)	0.15	3.00			
Half Hard (HH)	0.15	3.50			
Full Hard (FH)	0.15	2.80			

SURFACE FINISH

Types of Surface Finish	Rolling	Properties
Smooth Surface (Regular Rolled Finish)	Final Cold Rolled with normal ground rolls without any special treatment.	Max. 0.60 μm Ra
Matt Surface	Final Cold Rolled with specially prepared matt surface rolls.	0.60 – 1.20 μm Ra

PRODUCT at KBC Steel:

Precision Steel Strips for the Automobile and General Engineering Industry

WIDTH

MILD STEEL			MEDIUM & HIGH CARBON STEEL		
	Min	Max		Min	Max
Mill Edge width			Mill Edge width		
Thk 0.30 mm & below		312 mm	Thk 0.40 mm & below		315 mm
Thk above 0.30 mm		460 mm	Thk 0.40 mm-3.0mm		400 mm (for MC)
					350 mm (for HC)
Slit Edge Overall	6 mm	450 mm	Slit Edge Overall	6 mm	450 mm
	(T/W Ratio of 1:10)			(T/W Ratio of 1:10)	

CUT LENGTH

GRADE	MILD STEEL (SOFT)
Thickness	0.40 to 3.00 mm
Width	150 to 450 mm
Length	750 to 3000 mm

PRODUCT at KBC Steel:

Precision Steel Strips for the Automobile and General Engineering Industry

COIL WEIGHT (Specific Coil wt. kg/mm width)

MILD STEEL			MEDIUM / HIGH CARBON		
	Min	Max		Min	Max
Normal	0.50	5.00	Normal	0.50	5.00
Specific sizes with prior discussion	0.50	7.50	Specific sizes with prior discussion	0.50	7.50
Thk 0.25 mm & below	0.50	2.00	Thk 0.25 mm & below	0.50	2.00

COIL INNER DIAMETER

Available Coil ID :

6" (150 mm), 12" (300 mm)

16" (400 mm), 18" (450 mm) and 20" (500 mm)

depending upon the strip size and specific coil weight.

Following are exceptions.

For thickness above 0.30 mm and width above 315 mm : 6" (150 mm) cannot be given,

For Mill Edge and Annealed (non-skin passed) : 20" (500) cannot be given.

For Skin Passed Mill Edge : Only 20" (500 mm) can be given.

PRODUCT at KBC Steel:

Precision Steel Strips for the Automobile and General Engineering Industry

EDGE CONDITIONS

Types of Edge	Remarks
Mill Edge	Is a natural mill edge carried through the cold rolling without additional processing of the edge.
Slit Edge	Is an approximately square edge produced by slitting by slitting without any further treatment on the edge.

RANGE OF SIZES (COREL IMAGE)

Thickness mm	Max.width mm	Min.width mm
3.5		
3.0	450	50
2.5		
2.0		20
1.5	450	
1.0		
0.8		12
0.6		
0.5		
0.2	330	
0.1	310	6
0.05		

Mild Steel

Thickness mm	Max.width mm	Min.width mm
3.5		
3.0	340	50
2.5		
2.0		20
1.5	340	
1.0		
0.8		12
0.6		
0.5		
0.2	310	
0.1	305	6

Medium/High Carbon
Steels

PRODUCT at KBC Steel:

Precision Steel Strips for the Automobile and General Engineering Industry

Chemical Composition of the Product Range

Category	Grade Designation	CHEMICAL COMPOSITION (% w/w)								Nearest Equivalent Specification
		C	Mn	S Max	P Max	Si	AL	Cr	Other	
Mild Steel	D	0.12 max	0.50 max	0.040	0.040	Traces				DC 01 DIN EN 10139
	AISI 1010	0.08-0.13	0.30-0.50	0.040	0.040	Traces				C 10 E DIN EN 10132-2
	DD	0.10 max	0.45 max	0.040	0.040	Traces	0.020 -0.070			DC 03 DIN EN 10139
	EDD	0.08 max	0.30 max	0.025	0.025	Traces	0.020 -0.070		N:0.007 max	DC 04 DIN EN 10139
Medium Carbon Steel	C 40	0.35 –0.45	0.50 -0.90	0.040	0.040	0.35 max				C 40E DIN EN 10132-3
	C 45	0.42 – 0.48	0.60 – 0.90	0.040	0.040	0.35 max				C 45E DIN EN 10132-3
	C 55	0.50 – 0.60	0.60 – 0.90	0.040	0.040	0.35 max				C 55E DIN EN 10132-3
	C 62	0.60 – 0.67	0.50 – 0.90	0.035	0.035	0.35 max				C 60E DIN EN 10132-3

PRODUCT at KBC Steel:

Precision Steel Strips for the Automobile and General Engineering Industry

Chemical Composition of the Product Range

Category	Grade Designation	CHEMICAL COMPOSITION (% w/w)								Nearest Equivalent Specification
		C	Mn	S Max	P Max	Si	AL	Cr	Other	
High Carbon Steel	C 75	0.70 – 0.85	0.60 – 0.85	0.030	0.030	0.35 max				C 75S DIN EN 10132-4
	C 80	0.90 – 1.05	0.60 – 0.90	0.030	0.030	0.35 max				C 85S DIN EN 10132-4
	C 98	0.47 – 1.05	0.30 – 0.60	0.030	0.030	0.15-0.35				C 100S DIN EN 10132-4
Low Alloy Steel	50 Cr V4	0.47 -0.55	0.70 – 1.10	0.035	0.035	0.15-0.35		0.90 – 1.20	V:0.10 – 0.20	51 Cr V4 DIN EN 10132-4
	125Cr 1	1.20 -1.30	0.25 – 0.60	0.030	0.035	0.35 max				125 Cr 2 DIN EN 10132-4

Note :

In the MS grades, there may be presence of residual/tramp elements (Such as Cr, Ni, Cu, Mo etc.) Upto 0.20% and AL Upto 0.07%

In the MC & HC grades the percentage of Si and AL will depend on the deoxidation practice adopted by the steel makers.

In MC & HC grades residual/tramp elements (Such as Cr, Ni, Cu, Mo etc.) may be present depending upon the steel making practice followed by the steel makers.

PRODUCT at KBC Steel:

Precision Steel Strips for the Automobile and General Engineering Industry

Some of the Typical Applications of CR Strips manufactured by us.

Category	Grade	Application
MILD STEELS	D / DD AISI 1010	Automotive components, Car door / window biddings and trims, Lamps holders / caps, Dry cell Battery caps, Safety pins, Flash light components Bimetal Bearings & bushes, Shims
	EDD	Ball and Taper Roller Bearing retainers, Textile machinery components, Auto parts, Deep Drawn components for Electronic Industry, Flux cored Electrodes, Fashion Buttons for garments etc.
MEDIUM CARBON STEEL	C-40, C-45 C-55, C-62	Transmission Chains for two wheelers, Industrial Chains, Hair Pins, Pen Clips, Rifle and Gun components, Springs and Springs washers, Drop wires and Healds for weaving industry, Clutch parts, Fasteners etc
HIGH CARBON STEEL	C-75, C-80 C-98	Springs, Dowel pins, Hand & machine hacksaw blades, Hom Diaphragms, Measuring tapes, Healds, knitting needles, Knives and cutting blades, Circular Saws, Auto components, etc.
ALLOY STEELS	50 Cr V4	Disc and Diaphragm Springs, Auto components for high wear resistance etc.

PRODUCTS at KBC Steel:

International Specifications – A Comparison

	INDIAN	JAPANESE	AMERICAN	GERMAN	CUSTOMER
Commercial	IS : 513 0	JIS G 3141 SPCC	A 366	DIN 1623 St 12	As Per your specs
Drawing	IS : 513 D	JIS G 3141 SPCC	A 366	DIN 1623 St 12	
Deep Drawing	IS : 513 DD	JIS G 3141 SPCD	A 619	DIN 1623 St 13	
Extra Deep Drawing	IS : 513 EDD	JIS G 3141 SPCE SPCE-N	A 620	DIN 1623 St 14	

Note :	Steel grade in DIN 1623 Part 1	Comparable Steel Euronorm 32-72	Grade in ISO-17/12 N 49
	St 12	Fe PO 1	CRO 1
	St 13	Fe PO 2	CRO 2
	St 14	Fe PO 3	CRO 4

Stainless Steel

THICKNESS TOLERANCES IN MM*				
Thickness mm	W ≤ 80mm	W80mm to 160mm	W160mm to 250mm	W250mm to 625mm
0.05 to 0.10	±0.008	±0.010	±0.015	±0.020
0.11 to 0.15	±0.010	±0.015	±0.020	±0.020
0.16 to 0.25	±0.015	±0.020	±0.025	±0.030
0.26 to 0.40	±0.020	±0.025	±0.030	±0.035
0.41 to 0.60	± 0.025	±0.035	±0.040	±0.040
0.61 to 0.80	±0.035	±0.040	±0.045	±0.045
0.81 to 1.00	±0.040	±0.045	±0.050	±0.050
1.00 to 1.25	±0.050	±0.050	±0.050	±0.050
*as per JIS G 4313 Table 8				

Stainless Steel

Chemical & Mechanical Properties

	GRADE	STD	CHEMICAL ANALYSIS																		MECHANICAL					
			%C		% Mn		% S	% P	% Si	% Ni		% Cr		% Cu		% Mo		N ppm		Others		Hardness (HRB)	0.2% Proof Strength (Mpa)	Tensile Strength (Mpa) min	% El (50GL)	BEND
			M in	m ax	mi n	m ax	m ax	m ax	m ax	mi n	max	m i N	M a x	m i n	m a x	mi n	max	min	max	min	max					
Austenitic Cr-Ni	301	ASTM A 240		0.150		2.00	0.030	0.045	1.00	6.00	8.00	16.00	18.00						1000	16.00		95	205	515	40	
	301L	ASTM A 240		0.030		2.00	0.030	0.045	1.00	6.00	8.00	16.00	18.00						2000			100	220	550	45	
	304	ASTM A 240		0.070		2.00	0.030	0.045	0.75	8.00	10.50	17.50	19.50						1000			92	205	515	40	
	304L	ASTM A 240		0.030		2.00	0.030	0.045	0.75	8.00	12.00	17.50	19.50						1000			92	170	485	40	
	316	ASTM A 240		0.080		2.00	0.030	0.045	0.75	10.00	14.00	16.00	18.00			2.00	3.00		1000			95	205	515	40	
	316L	ASTM A 240		0.030		2.00	0.030	0.045	0.75	10.00	14.00	16.00	18.00			2.00	3.00		1000			95	170	485	40	
	316 Ti	ASTM A 240		0.080		2.00	0.030	0.045	0.75	10.00	14.00	16.00	18.00			2.00	3.00		1000	Ti - 5 (C+N)	Ti – 0.70	95	205	515	40	
	321	ASTM A 240		0.080		2.00	0.030	0.045	0.75	9.00	12.00	17.00	19.00						1000	Ti - 5 (C+N)	Ti – 0.70	95	205	515	40	
	317	ASTM A 240		0.080		2.00	0.030	0.045	0.75	11.00	15.00	18.00	20.00			3.00	4.00		1000			95	205	515	35	
	317L	ASTM A 240		0.030		2.00	0.030	0.045	0.75	11.00	15.00	18.00	20.00			3.00	4.00		1000			95	205	515	40	
347	ASTM A 240		0.080		2.00	0.030	0.045	0.75	9.00	13.00	17.00	19.00							Cb – 10XC	Cb – 1.00	92	205	515	40		
Austenitic Cr-Mn	201	ASTM A 240		0.150	5.50	7.50	0.030	0.060	1.00	3.50	4.50	16.00	18.00						2500			100	310	655	40	
	202	ASTM A 240		0.150	7.50	10.00	0.030	0.060	1.00	4.00	6.00	17.00	19.00						2500			100	260	620	40	
	J204 Cu	JSL		0.100	6.50	9.00	0.010	0.070	0.75	1.50	3.50	16.00	17.50	2.00	4.00			1000	2000			100	310	620	40	
	JSL AUS	JSL		0.080	6.00	8.00	0.010	0.100	0.75	4.00	6.00	16.00	18.00	1.50	2.00				1000			95	205	550	40	
	JSL TUBE	JSL		0.100	9.00	10.00	0.010	0.100	0.75	0.25	0.35	14.50	16.00	1.50	2.00				2000			100	325	650	40	
	JSL U	JSL		0.120	9.00	10.00	0.010	0.080	0.75	0.50	0.70	14.50	15.25	1.50	2.00			1175	1450							
	J4	JSL		0.100	8.50	10.00	0.010	0.040	0.75	1.00	2.00	15.00	16.00	1.50	2.00				2000			100	325	650	40	
Martensitic	430	ASTM A 240		0.120		1.00	0.030	0.040	1.00		0.75	16.00	18.00								Ti or Nb = 1.0	89	205	450	22	
	410S	ASTM A 240		0.080		1.00	0.030	0.040	1.00		0.60	11.50	13.50									89	205	415	22	
	436	ASTM A 240		0.120		1.00	0.030	0.040	1.00			16.00	18.00			0.75	1.25			Nb = 5XC	Nb = 0.8	89	240	450	22	
Ferritic	420	ASTM A 176	0.150			1.00	0.030	0.040	1.00		0.75	12.00	14.00				0.50					96		690	15	
	420J1	JIS G 4304	0.160	0.250		1.00	0.030	0.040	1.00		0.60	12.00	14.00									97	225	520	18	
	420J2	JIS G 4304	0.260	0.400		1.00	0.030	0.040	1.00		0.60	12.000	14.00									99	225	540	18	
	410	ASTM A 240	0.080	0.150		1.00	0.030	0.040	1.00		0.75	11.50	13.50									96	205	450	20	

Stainless Steel

Chemical & Mechanical Properties

CAMBER*			
WIDTH UPTO 40MM		12.70 mm in 2438 mm length (i.e. 5 mm in 1000 mm length)	
OVER 40 MM UPTO 625 MM		6.35 mm in 2438 mm length (i.e 2.70 mm in 1000 mm length)	
*as per ASME SA-480/SA-480M Table A2.29			
FLATNESS*			
Under 1.57 mm	Width upto 625mm		12.70 mm
Thick. (mm)	Width (mm)	¼ Hard	½ Hard
Upto 0.41	Upto 610 mm	12.70	19.05
0.41 to 0.76	Upto 914 mm	15.88	22.22
*as per ASME SA-480/SA-480M Table A2.8			



Stainless Steel

Chemical & Mechanical Properties

EDGE CONDITION				
Thickness mm	W ≤ 20mm	W 21mm to 50mm	W 51mm to 200mm	W 200mm to 625mm
Th ≤ 0.25	S.E + D.E + R.E	S.E + D.E + R.E	S.E	S.E + M.E
0.26 to 0.60	S.E + D.E + R.E	S.E + D.E + R.E	S.E	S.E + M.E
0.61 to 0.80	S.E + D.E + R.E	S.E + D.E + R.E	S.E	S.E + M.E
0.81 to 1.00	N.A	S.E + D.E + R.E	S.E	S.E + M.E
1.00 to 1.25	N.A	S.E + D.E + R.E	S.E	S.E + M.E
Description				
S.E	Slit Edge*	Slitting leaves a straight edge without excessive burr: Burr height ≤ 10% of thickness		
D.E	Deburred Edge**	After slitting, the corners are mechanically removed		
R.E	Round Edge**	After slitting, the edge are mechanically rounded.		
M.E	Mill Edge	Without Slitting		

Without Slitting

*as per DIN Gk

** as per DIN SK

for tight tolerances consult us

STEEL PVT. LTD.

PROGRESS at KBC Steel

- Supplying to all the major Corporations in the field of Welding Electrodes and Automobile Industry.
- Products are under Trial for Approval stage at major corporations in the fields of Welding Industry and Automobile Industry.
- From inception to the current year we have already achieved a growth rate of 25%.



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