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BELIEVE
CREATE
DELIVER

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Steel balls division
An ISO 9001:2015 Company

WHO WE ARE

- ▶ Vidushi Wires Pvt Ltd ,established in 1995, is India's leading company in steel processing industry.
- ▶ With a benchmark to produce safe and sustainable steel products, we are the leading suppliers of quality steel products in all major markets with an annual capacity of 36,000 metric tons.
- ▶ Our products are supplied to various sectors namely Agriculture, Construction, Infrastructure, Power and Automotive industry.
- ▶ Vidushi group operates from 4 different locations across India satisfying needs of customers in these varied fields.
- ▶ 2010 marked Vidushi Wires' foray into the Fastener Industry, which currently supplies over 15,000 metric tons annually.
- ▶ With the start of this new decade, Vidushi Wires ventured into a new vertical of its steel wire unit by pursuing Steel Ball manufacturing adding a capacity of 80 Million pieces annually.



OUR USP

▶ Total Quality Management

Our Motto has always been to exceed expectations of our customers, with a team of engineers dedicated for quality assurance, TQM is an important part of our quality culture. From sourcing 100% of the raw material in house to having visual inspection in place for every production batch, we check the form and dimensional accuracy at every stage of manufacturing.

▶ Customer Oriented Manufacturing

Vidushi Wires aims to manufacture its ball portfolio as per customer's specific requirement in terms of size and material. Vidushi can provide you with the right solution for all of your varying Steel ball requirement.

▶ Quality Assurance

The two things that drive us are – quality products and customer satisfaction. Over a period of time we have done substantial technological upgradation with acquisition of state -of-the-art equipment. New product development is a constant phenomenon and so are the committed employees.

▶ Environmental Management

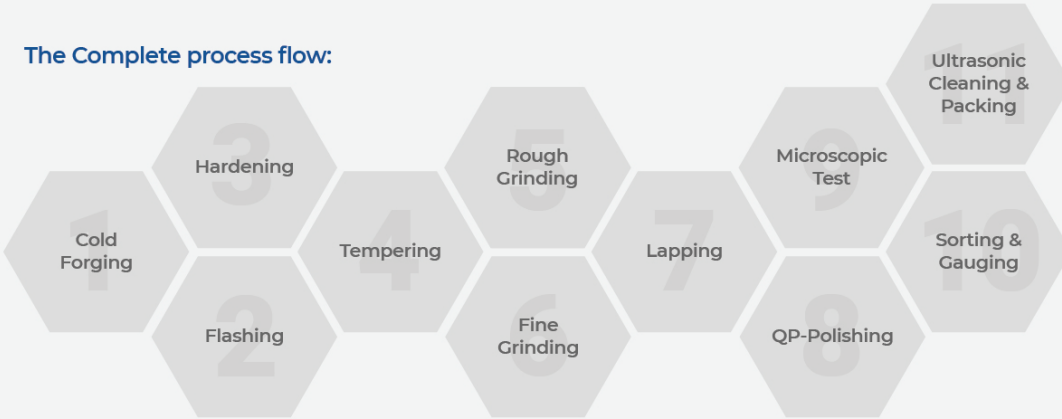
We work closely with the local authorities of the pollution control board and health safety board to constantly upgrade our plant and increase safety of the community.



Steel Ball Manufacturing at a Glance

We started our pursuit in January 2020, manufacturing high quality precision steel balls conforming to AFBMA, IS-2898, DIN 5401 and ISO 3290 standards. Our balls are manufactured on specially designed machines which ensure accuracy and conform to international norms.

The Complete process flow:



The balls are manufactured in less than 20.00 MM Dia in AISI-410, AISI-420, AISI-440C, AISI-52100, AISI-304, AISI-316 and Carbon Steel Grades

PRECISION BALLS

STEEL COMPARISON CHART

CHEMICAL COMPOSITION 70)

	COUNTRY	BRITAIN	GERMANY	JAPAN	USA	ELEMENTS (%)							
	STANDARD	BS	DIN	JIS	AISI SAE	C	Si	Mn	P	S	Ni	Cr	Mo
Steel SAE 52100													
Stainless Steel SAE 410, 420, 440 C, 304, 316	High Carbon Chrome Alloy	B13	105Cr5	SUJ-2	52100	0.95 - 1.100	0.15 - 0.35	0.5	0.025	0.025	-	1.30 - 1.6	-
	Carbon Steel En1	Austenite (Cr-Ni)	304S15	X5CrNi18-9	SUS304	304	0.08	1	2	0.045	0.03	8.00 - 10.5	18.00 - 20.00
Aluminium		Martensite (Cr)	316S16(58J)	X5CrNiMo18-10	SUS316	316	0.08	0.00	2	0.045	0.03	16.00 - 18.00	2.0 - 3.0
Brass	Stainless Steel	410S21	X10Cr13	SUS410	410	0.15	1	1.00	0.04	0.03		11.50 - 13.50	
Copper		420S37 (56C)	X20Cr13	SUS420J1	420	0.16 - 1.40	1	1	0.04	0.03		12.00 - 14.00	
Lead		En560	X40Cr13	SUS420J2	420F	0.26 - 0.40	1	1	0.04	0.03		12.00 - 14.00	
Tungsten			X105CrMo17	SUS440c	440C	0.95 - 1.20	1.00	1	0.04			16.00 - 18.00	

ISO 3290 (International)

Note : The table values apply to Balls, made of rolling bearing steel, hardened

Quality	Diameter		Tolerance of the individual Ball in one lot			Tolerance		Mean value of one gauge (Gauge middle)	
			Dimensional Tolerance	Form Tolerance	Roughness	of one lot	Gauge Interval		
	Over mm	to	tdw um	Ra um	Ra um	Vdws um	T s um	S um	
G10		14.	0.2	0.2	0.012	0.5	0.5	-9 -0.5	0 0.5.. +9
G16		25.	35	35	18	0.5	1	-10...-1	0 +1...+10
G20		25.	0.5	0.5	0.03	0.5	1	-10...-1	0 +1...+10
G28		38.	0.7	0.7	0.05	1.	2	-12...-2	0 +2...+12
G100		13.	2	2	8	4	4	-40...-4	0 +4...+40
G500		25.	25	25	0.2		50	-50	0 +50

ISO 3290 (Indian)

Grade	Ball Diameter Variation	Deviation from Spherical Form	Surface Roughness Rs.
10	0.25	0.25	0.025
16	0.4	0.4	0.032
20	0.5	0.5	0.04
28	0.7	0.7	0.05
40	1	1	0.08
100	2.5	2.5	0.125
200	5	5	0.2

Our Applications

