

TOCOTM
ADDING VALUES TO SURFACES



IMPROVISING
FOR A BETTER SURFACE

by **TOCO STEELS PVT. LTD.**

Manufacturer of Cut Wire Shots

ISO 9001 : 2015 Certified Company

TOCO has rooted its inspiration in the year 1986 to emerge as a leader in steel abrasives. We are ready to pass on our legacy of 33 years of experience in shot blasting and peening industries, we are an ISO 9001:2015 certified manufacturer with an attitude to be the value partner for foundry, forging, automotive, aerospace, medical, wind tower, PEB, Pipe manufacturers and many such engineering and manufacturing sectors.

We have set up a state of the art manufacturing facility in the year 2009 to manufacture cut wire shots made from carbon steel, stainless steel, copper, aluminum and zinc wires in all shapes and sizes. We offer cut wire shots conforming to SAE J441, VDFI 8001, IS 5873 and AMS 2431 quality standards. We cherish our relationship with more than 700 clients in India and overseas owing to consistent quality, reliability, competitive cost structure and technical support. We have a young and dynamic team continuously working to achieve highest level of customer satisfaction.

Our aim is to supply blasting media of global quality standards to Indian customers who are looking for a better surface preparation solution, as a result we have collaborated with the world's best manufacturer of steel abrasives – SINTO, as an authorized importer and distributors for steel shots and grits in India. We are also the authorized importer and distributor of a European manufacturer – TosÇelik Granül for its low carbon steel shots. With these international partners; we are committed to serve our customers with most innovative and world class surface preparation solution to improve their productivity and performance.

Our customers enjoy the wide range of available products under one roof to match with any of their surface preparation requirement.

33 years of
experience in
shot blasting
& peening
industries

Deliveries at a
lightening
speed

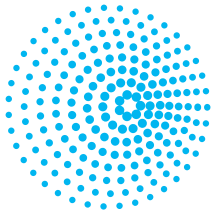
One stop
solution
for all steel
abrasive
needs

More than
700 clients
in India
& overseas

A young &
dynamic team.

Strategic
partnerships
with world
leaders

INTRODUCING



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Tough to the Core

TOCO feels immense pleasure to introduce a Brand New Identity to fulfill its vision by launching a new Brand - TOCO (Tough to the Core). TOCO represents our commitment to quality abrasives, with a vision to serve the market's requirement in most sustainable, innovative and economical manner.



TOCO



THE INSPIRING CORE PHILOSOPHY BEHIND THE BRAND TOCO



THE INSPIRING CORE PHILOSOPHY BEHIND THE BRAND TOCO



Core Purpose

To ensure a delightful experience for our value chain partners by providing sustainable and innovative surface preparation solutions.

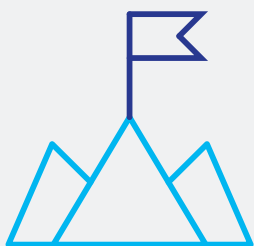


Vision

To be the preferred GROWTH partner by providing innovative and sustainable surface preparation solution.

We are committed to fulfil this vision with a mindset of GROWTH

- Going Global
- Realistic Solution
- Optimistic
- Working Together
- T3 (Time, Technology, Talent)
- Honesty



Mission

By creating the optimum surface preparation solution in timely manner

By connecting with right talents

By collaborating with right technology and market leaders.



Core Values

To be PRODUCTIVE

- Precision
- Reliable
- Optimum
- Dedication
- Unique
- Commitment
- Team Work
- Innovate & Improvise
- Virtuous
- Empower



Brand Promise

World Class quality blasting and peening abrasives delivered at lightning speed.

What is CUT WIRE SHOTS?



Cut Wire Shot is manufactured using high quality wire which is cut to a length about equal to its diameter. Cut wire shots can be made of carbon steel, stainless steel, aluminum, zinc, copper and other metal alloy wires. Our cut wire shots conform to SAE J441, VDFI 8001, IS 5873 and AMS 2431. We offer various shapes of cut wire shots:



CW – AS CUT

These particles have sharp edges. As-Cut Media is an effective cleaning abrasive but not useful for shot peening application.

CCW – SINGLE CONDITIONED (G1)

Sharp edges are removed by a process called 'conditioning'. Conditioned cut wire shots are used for shot peening application.



DCCW – DOUBLE CONDITIONED (G2)

Another round of conditioning is done to achieve a spherical shape.

SCCW – SPHERICALLY CONDITIONED

This media is perfectly spherical in shape and it is used in aerospace and medical applications.



ADVANTAGES OF CUT WIRE SHOTS



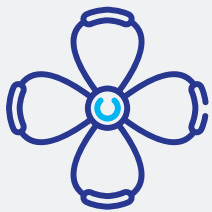
DURABILITY

Due to its superior micro structure with virtually no defects (blow holes, pin tails, porosity, cracks), durability of our cut wire shots is higher than any other media.



CONSISTENCY

Our cut wire shots are consistent in size, shape, hardness and density.



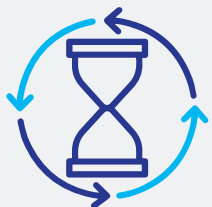
RESISTANCE TO FRACTURE

Our cut wire shots tend to reduce in size on use rather than fracture into smaller uneven particles which may damage components.



LOWER DUST GENERATION

Our cut wire shots are durable and do not fracture, resulting in lower dust generation.



CYCLE TIME

Due to consistent size, shape and hardness of our media, shot blasting cycle time reduces considerably. Eventually, saving time and money



LOWER SURFACE CONTAMINATION

Cut Wire Shots have low carbon content so Iron Oxide residue on components is minimal resulting in much better and cleaner surface.



Carbon Steel Cut Wire Shots

Carbon steel cut wire shots are widely used in foundry, forging and automotive industries for cleaning, deburring, descaling, shot peening and surface improvement. Carbon steel cut wire shots are available in various hardness: 45-50 HRC, 50-55 HRC and 55-60 HRC with size ranging from 0.40mm to 2.50mm.

Specifications:

Size	Hardness	Shape
0.40mm to 2.50mm	450-500 HV	As Cut
	500-550 HV	CCW (G1)
	610-670 HV	DCCW (G2)
	640-710 HV	SCCWW (G3)



Stainless Steel Cut Wire Shots

Stainless steel cut wire shots are used for shot blasting on investment castings, aluminum die castings, brass components and other metals on which carbon contamination is harmful.

Specifications:

	300 Series	200 Series	400 Series
Size	0.40mm to 2.50mm	0.40mm to 2.50mm	0.40mm to 2.50mm
Hardness	400-500 HV	400-500 HV	350-400 HV
Shape	As Cut CCW (G1) DCCW (G2) SCCW (G3)	As Cut CCW (G1) DCCW (G2) SCCW (G3)	As Cut CCW (G1) DCCW (G2) SCCW (G3)



Zinc Cut Wire Shots

These are used for deburring aluminum die castings, stripping paint, removing powder coatings without damaging substrates. Zinc cut wire shots usually have very low hardness but we can also make high hardness alloy zinc cut wire shots depending on customer requirement.

Specifications:

Size	Composition	Hardness	Shape
0.60mm to 2.50mm	Min 99% high grade zinc	45-50 hv	As Cut CCW (G1) DCCW (G2) SCCW (G3)



Aluminum Cut Wire Shots

It is used for blast cleaning, surface finishing and deburring of aluminum castings and forgings. It is very durable and leaves no ferrous residue on component.

Specifications:

Size	Composition	Hardness	Shape
0.60mm to 2.50mm	Available in various aluminum grades (4043, 5053) and alloy grades (5356, 6060).	40-50 hv Higher hardness available in aluminum alloy grades.	As Cut CCW (G1) DCCW (G2) SCCW (G3)



Copper Cut Wire Shots

It is used to clean parts where conductivity is very important.

Also used for paint removal on tooling, paint hooks etc.

Size	Composition	Hardness	Shape
0.60mm to 2.50mm	Cu 58-99%	100-300 hv	As Cut CCW (G1) DCCW (G2) SCCW (G3)



Hybrid Abrasives

Surface preparation industry is constantly evolving and demand for a better finish with cost effectiveness is growing. Improvising on our standard abrasives, we have come up with hybrid abrasives, which is an optimum mix based on surface finish requirements. This is a customized product designed in the most cost effective manner.

We have developed hybrid abrasives for very general shot blasting applications in foundries, forging, fabrication, investment castings, aluminum die castings and more. If we use any abrasive in isolation, it is bound to have its limitation; therefore we offer a premix of 2-3 abrasives depending on its application.



Steel Shots and Steel Grits by



sinto

We see a growing demand for better quality shots and grits. Awareness in respect to quality, consumption, timing and surface finishing is growing with end users. We, therefore import the best quality shots and grits from SINTO. End users data suggests a minimum of 40 % reduction in consumption compared to other make shots and grits. Major improvements are observed in surface finish. Imported Shots and grits conform to SAE J444, SAE J827, SAE J1993, ISO 11124-3, DIN 8201-2 and DIN 8201-3.

We are the authorized importer and distributors of SINTO make steel shots and grits in India. We stock all sizes and grades of Steel Shots and Steel Grits. Usually, hardness in steel shots is in the range of 40-50 HRC, however higher hardness steel shots are also available on order. In case of Steel Grits, GH (65 HRC) and GP (40-50 HRC) grades are ready in stock. Other hardness such as GL (50-55 HRC) is available on order.



Low Carbon Steel Shots by



TOSÇELİK Granül

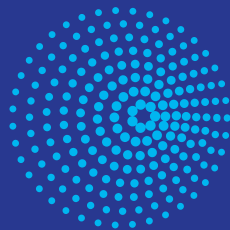
TOSÇELİK GRANÜL uses the best alloy content scrap that it receives from the group companies in the low carbon steel shot production.

Low carbon steel shot features increased impact absorbing capacity as the impact energy is distributed evenly on the shots.

Structural properties of low carbon steel shot reaches increased hardness and thus offers better cleaning performance during usage.

Since the production process does not require secondary heat treatment, perfect shots of bainitic structure are produced without cracks also resistant to impact and wear.

TECHNICAL SPECIFICATIONS	Low Carbon Steel Shot	
Chemical Analysis (Molten Metal)	Carbon	: 0.10 - 0.15%
	Manganese	: 1.20 - 1.50%
	Silicon	: 0.10 - 0.25%
	Sulphur	: 0.035% max
	Phosphorus	: 0.035% max



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