



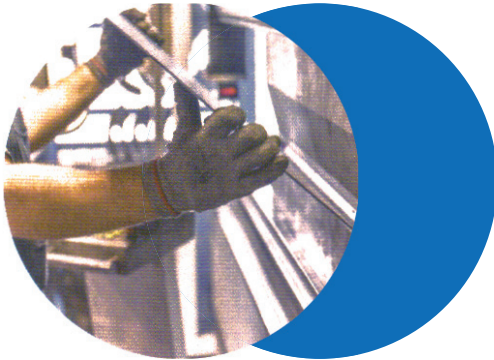
경성산업

KYOUNGSUNG

PRODUCT CATALOGUE



INTRODUCTION / COMPANY HISTORY



CEO : Kimkyoungjo

Date of establishment : 1997. 03

Field of bussiness : Special steel case

Shotball&

Address : 14, Nakdongnam-ro 533beon-gil, Gangseo-gu, Busan, Republic of Korea

Homepage : www.shotball.com

1990

1997. 03 Established Kyoungsung Co. Ltd. (at Gwaebub-dong Sasang-gu, Busan)
1998. 08 Registered as a supplier with Hyundai Heavy Industries
1999. 07 Became a member of Women Enterprise Association (Busan Branch)

2000

2000. 07 Won official commendation from the Ministry of SMEs and Startups
2000. 08 Acquired ISO 9001 certification
2002. 01 Won official commendation from the president of Korea SMEs and Startups Agency (Busan Office)
2002. 10 Selected as a Busan/Ulsan business incubator by the Ministry of SMEs and Startups
2002. 10 Entered an industrial-educational cooperative arrangement with Dong Eui Institute of Technology
2002. 10 Selected as a Promising Exporter
2002. 12 Recognized as an Advanced Technology Company by Korea Technology Finance Corporation
2003. 01 Participated in the SMEs Technology Innovation Project
2003. 04 Certified as a Venture Business
2003. 08 Won official commendation from the Minister of Trade, Industry and Energy
2003. 12 Won the Presidential Award for outstanding management from Pukyong National University
2004. 01 Won the Presidential Award from the Korea SMEs and Startups Agency
2004. 10 Selected as an "Excellent Project" at the Technology Innovation Contest of the Ministry of SMEs and Startups

2005

2005. 07 Designated as a Promising SME by Pusan Bank
2005. 09 Won official commendation from the Minister of Science and ICT
2005. 10 Acquired ISO 14001 certification
2005. 11 Registered patents on "The Method of Manufacturing Shot Ball" (No.524533) and "the Shot-ball Forming Apparatus" (No. 523536)
2006. 02 Won official commendation from the Administrator of Korean Agency for Technology and Standards
2007. 09 Won the Good Taxpayer Award from the National Tax Service

2010

2012. 05 Certified as an official supplier of parts and materials by the Ministry of Trade, Industry and Energy
2012. 07 Won official commendation from the Prime Minister
2012. 12 Won official commendation from the Ministry of SMEs and Startups
2013. 04 Applied for registration of a trademark (40-2013-0021426: Anyball)
2013. 06 Selected as a Promising Exporter
2014. 03 Won the Beautiful Taxpayer Award from the National Tax Service
2014. 12 Certified as the Best Family-Friendly Management

2015

2016. 02 Moved to 14, Nakdongnam-ro 533beon-gil, Gangseo-gu, Busan, Korea due to expansion
2016. 09 Established the Packaging Facility Division
2017. 04 Certified as the Excellent Technology Evaluation Company
2017. 12 Certified as the SME of Human Resources Development
2018. 11 Won Gold Prize at the 10th Korea Environment Energy Award in 2018
2018. 12 Selected as a Promising Exporter
2019. 01 Certified as a Strategic Industry Leader of Busan
2019. 01 Certified as a Strategic Industry Leader of Busan
2019. 01 Certified as a Youth-friendly Small Giant
2019. 03 Patent registered on the "Flexible Transporting Cart"
2019. 05 Certified as the Excellent Technology Evaluation Company
2019. 06 Patent registered on the "Short Ball Manufacturing Apparatus"
2019. 06 Completed the FTA Professional Training Course
2019. 07 Patent registered on the "Drone-Mountable Cargo Box"
2019. 07 Completed the Professional Technical Course of KITECH-KOITA
2019. 08 Acquired the "Risk Assessment Certification" from KOSHA
2019. 08 Patent registered on the "Pallet for Transportation of Goods"
2019. 09 Patent applied for the "Movable Ammunition Carrier"
2019. 10 Patent applied for the "Worktop for Installing Drilling Machine"
2019. 11 Participated in a seminar on the strategy to enter the American and ASEAN markets 2019
2019. 12 Certified as the Best Family-Friendly Management.
2019. 12 Entered a Partnership Agreement with Women's HR Development Center (Saha Branch)
2019. 12 Selected as the leader in Learning through On-the-job Training
2019. 12 Completed the Local SMEs R&D Planning Practical Course

2020

2020. 01 Certified as a Youth-friendly Small Giant.
2020. 01 Patent registered on "Metallic Case Pallets"
2020. 01 Committed to providing training under the Work-based Learning Program
2020. 02 Patent registered on "Stacking Rack"
2020. 02 Acquired the TRIZ Level 1
2020. 02 Completed the Advanced Manufacturing Expert Course .
2020. 05 Patent registered on "Short Ball Manufacturing Apparatus and the method of Manufacturing Short Balls"
2020. 06 Completed the SME Exporters Development Training
2020. 07 Participated in the Work-Life Balance Campaign
2020. 07 Completed the YES FTA Professional Training

EXHIBITION PARTICIPATION

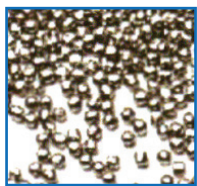
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- 2012. 05 Environment & Energy Tech Hanoi 2012 (Vietnam / 2012.09 BEXCO)
 - 2012. 12 KOINKE 2012 (Malaysia)
 - 2013. 05 BUTECH 2013 (BEXCO)
 - 2013. 05 Environment & Energy Tech Hanoi 2013 (Vietnam / 2013.09 BEXCO)
 - 2013. 10 KOREA METAL WEEK 2013 (KINTEX)
 - 2013. 11 BUSAN INVENTION & NEW TECH EXHIBITION 2013 (BEXCO)
 - 2014. 04 GREEN ENERGY EXPO 2014 (EXPO)
 - 2014. 04 INEX 2014 (BEXCO)
 - 2014. 05 Environment & Energy Tech Hanoi 2014 (Vietnam / 2014.08 BEXCO)
 - 2014. 09 KOREA METAL WEEK 2014 (KINTEX)
 - 2014. 09 THE 13th World Korean Business Convention (BEXCO)
 - 2014. 11 INDIA Nuclear Energy (Nehru Center, Mumbai, India)
 - 2014. 12 Busan Invention & New Tech Exhibition 2014 (BEXCO)
 - 2014. 12 Vietnam Trade Expo (Vietnam-Ho Chi Minh City)
 - 2015. 03 INTERMOLD OREA 2015 (KINTEX)
 - 2015. 05 Environment & Energy Tech Hanoi 2015 (Vietnam / 2015.09 BEXCO)
 - 2015. 09 Busan Invention & New Tech Exhibition 2015 (BEXCO)
 - 2015. 10 KOREA METAL WEEK 2015 (KINTEX)
 - 2015. 12 Automechanika Shanghai 2015 (Shanghai, China)
 - 2015. 12 Busan International Clan Expo 2015 (BEXCO)
 - 2017. 05 INTERMACH 2017 (BITEC, BANGKOK)
 - 2017. 07 Oil & Gas Asia 2017 (KUALA LUMPUR, MALAYSIA)
 - 2017. 09 Environment & Energy Tech 2017 (BEXCO)
 - 2017. 10 KOREA METAL WEEK 2017 (KINTEX)
 - 2017. 10 Busan New Technology & Start up Exhibition 2017 (BEXCO)
 - 2018. 01 Automotive world (Tokyo, Japan)
 - 2018. 04 Industry Integrated Trade Mission Export Consultation (Tokyo, Japan)
 - 2018. 05 Vietnam Environment & Energy Tech (BEXCO)
 - 2018. 06 Automotive Manufacturing Expo Korea (BEXCO)
 - 2018. 07 The 11th International Green Car Exhibition (Gwangju)
 - 2018. 08 KOREA-JAPAN Business meeting (Tokyo, Japan)
 - 2018. 09 Environment & Energy Tech 2018 (BEXCO)
 - 2018. 10 2018 KOREA-INDIA Business Meet (Auto Parts & Machinery) (Pune, India)
 - 2018. 10 Specialized High school / Veteran Soldier Job Fair (BEXCO)
 - 2018. 10 2018 Singapore Trade Mission (Busan)
 - 2018. 10 Korea Autoparts Plaza in Mitsubishi Motors (Aichi, Japan)
 - 2018. 10 KOREA METAL WEEK 2018 (KINTEX)
 - 2018. 11 Vietnam Export Conference 2018 (Hanoi, Vietnam)
 - 2019. 05 Environment & Energy Tech 2019 (ENTECH)
 - 2020. 08 Busan Smart Device & Small Appliances Fair (KOSDIC 2020)

SURFACE ABRASIVES DIVISION ANYBALL

Products of the Surface Abrasives Division of Kyoungsung are recognized for their superior performance and technology than any other products in Korea. By diversifying its product lines, it supplies products to all industries, including automotive, shipbuilding, machinery, and aviation.



· Kyoungsung is a company specialized in surface abrasive products.
It has registered a trademark in China



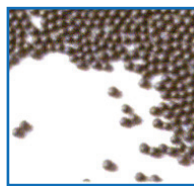
Stainless Shot



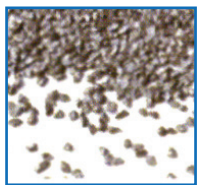
Cut Wire



Rounded Cut Wire



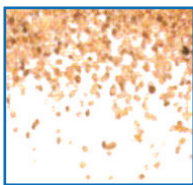
Carbon Steel Shot



Carbon Steel Grit



Aluminium
Oxide



Aluminium
Garnet



Glass Beads

Stainless Cut Wire							Hardness: approx. 500 Hv (SUS304), approx. Hv 300 (SUS430)						
Title number (mm)	0.2	0.3	0.4	0.5	0.6	0.7	0.8	1.0	1.2	1.5	2.0	2.5	3.0
Particle size (m)	200	300	400	500	600	700	800	1000	1200	1500	2000	2500	3000

- SatinBlast Stainless Steel Shot is one of the most durable abrasive products. The SatinBlast product made from the 300 series cast iron stainless steel provides consistent performance when it is used for shot peening purposes, even when the use is repeated thousands of times.
- SatinBlast will work, becoming harder due to continuous shock during use. Its internal structure will be transformed from "austenitic" to "martensite". This transformation enables SatinBlast to withstand 5000 times of shocks.

■ Packing method and quantity



Paper
(15kg)



PP
(25kg)



Plastic
(10kg)



Steel Cut Wire					Hardness: HRC 48~62	
Title number (mm)	0.6	0.8	1.0	1.2	1.5	1.8
Average Particle size (m)	600	800	1000	1200	1500	1800

- WireBlast is a popular substitute for cast iron abrasives. The product creates a nice market where cast iron material products have inadequate performance. This is especially recommended for parts requiring high polishing strengths or for peening, especially when the joints or materials to be peened have high strength. To obtain results from repetitive pinning, the ideal pinning material should include particles with ideal sizes, shapes, hardness, densities, and so on.

■ Packing method and quantity



Paper
(15kg)



PP
(25kg)



Plastic
(10kg)



Rounded Cut Wire					
Rating	R4	R5	R6	R8	R10
Hardness	55 ~ 60	55 ~ 58	53 ~ 57	52 ~ 55	50 ~ 53

- ◎ Rounding Cut Wire Shot is produced by precisely cutting high-carbon lightweight steel wires and eliminating sharp edges in order to make it suitable for shot peening of products that require high-strength durability, hardness, and particles suitable for specifications.
- ◎ Advantages of rounding balls
- Their high durability reduces process cost
 - Maximum pinning effect with hardness and particles suitable for specifications
 - It is an environmentally friendly product because it is a complete steel product with little dust generation.

■ Packing method and quantity



Aluminum Cut Wire			Hardness: Hv approx. 45~60			
Alloy aluminum cut wire			Hardness: Hv approx. 120			
Title number (mm)	0.6	0.8	1.0	1.2	1.5	2.0
Particle size (m)	600	800	1000	1200	1500	2000

- ◎ QuickCut aluminum oxide is used for things that require rough surfaces to be treated very smoothly. It is one of the most economical products that can be used even in a very dry or damp environment. This sharp, angular abrasive is the second hardest mineral after diamond and is especially suitable for leaving no iron contamination on a machined surface.
- ◎ This is for a finishing job requiring a micro inch level of precision or precise dimensions. It can be used for rough cutting operation or for the treatment of surfaces with a shape of prominence and depression. It has high density and sharp and angled structure, making itself one of the fastest abrasives.

■ Packing method and quantity





SHOT ABRASIVES

This process is that the kinetic energy of the shot or grit is imposed on the surface of the part against which the grains are propelled at about 100m/sec. The way of propelling is air blasting using compressed air or airless blasting using the impeller. Foreign substances or dust is removed, and the propelled shots are automatically collected right away to be used repeatedly thousands times by returning to the feeder.

CUT WIRE SHOT

The cut short wire made by cutting 0.45-0.7% high carbon steel to a certain length has hardness in the range of 40-60HRC, and it is so strong and durable that its in-service life time is longest compared to that of other shots. Also, as the grain size is uniform, its cleaning speed is two times faster than for the cast shot.

The characteristics are:

- 1) Because there is no energy loss with the material close to the perfect rigid body with high specific strength and 7.85 of specific gravity, it hits the part hard as to double the rust removal capability.
- 2) Due to resistance to impact, wear, fatigue, etc., the life time is longer (more than two times than the steel shot)
- 3) As it is resilient enough and able to rebound, cleaning efficiency is high even for complex shape parts.
- 4) The uniform grain size enables to control dispersed grains in the machine.
- 5) The cleaning speed is more than two times faster than for other shots.
- 6) As there are no broken grains for the perfect rigid shot, the equipment maintenance cost is saved without wearing of wear-resistant equipment parts.

SUS, AL CUT WIRE SHOT

- Surface cleaning of stainless steel products.
- De-rusting of metallic rusts after blasting
- Better surface
- Brighter surface

SHOT SELECTION CRITERIA

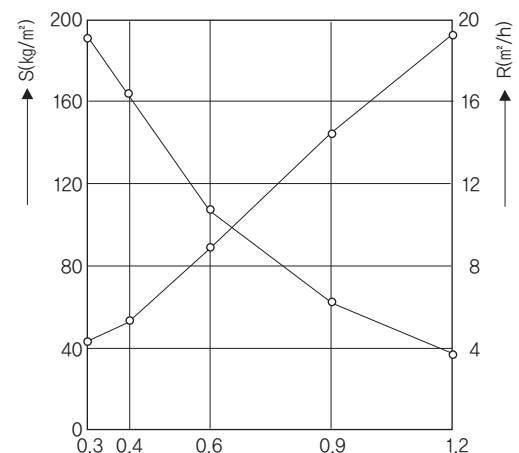
1. Fast cleaning speed saves cost despite of somewhat higher price.
2. The finer the grains are, the faster the cleaning speed becomes.
3. High rebounding ability reduces processing time.
4. The shot reducing wear of wear-resistant equipment parts is economical.
5. The shot able to control operating mix is economical.

SPECIAL SHOT





KONG-KONG (Rounding Cut Wire Shot)

As this shot makes up for the weakness of both the cut wire shot and the steel ball, not only the rough surface of the cut wire shot is prevented at initial charge, but also the life time and dust problems of the steel ball are solved at the same time.

1. Fatigue life of the product is extended by hundreds times due to the shot peening effect.
2. Cleaning of the ultra-fine product
3. Surface treatment of aluminum die casting parts
4. Initial management of operating mix control
5. Prevention of notches owing to the round rigid body





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-  <http://www.shotball.com>