

TE is Planting 1,000,000 Trees. TE Provides **ESG Solution** to HSS Industry and Clients.

Carbon Reduction

HSS Master Alloy

Production of **5000 t = 1000,000 trees**

Carbon Absorption

🌱 9.36kg per Tree

**Carbon Emission Reduction
9000t**

Producing 5,000 tons of HSS materials with HSS master alloy
reduces 9,000 tons of carbons annually
= Same as planting 1,000,000 trees



IPCC_gl, Korea Environmental Industry & Technology Institute LCI/LCA Emission Factor Data

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PRODUCTS

HSS Master Alloy

High Speed Steel

HSS Master Alloy(Ingot)

"New Raw Material for HSS Material Production"
that Substitutes Steel scrap + Ferro-W/Co/Mo/V/Cr
(One-Stop Raw Material Supply Service)

Master Alloy's Distinctive Features

⌚ Process Efficiency
All compositions are already included within master alloy
(No need for additional composition process)

||||| Higher Quality
Even distribution for each component

💰 Cost Reduction
No need to purchase steel scrap, ferroalloy

→ Innovative Efficiency / Cost Reduction
Shorter Process / High Quality

#HSS Recycling
#HSS Master Alloy
#Standardized
HSS Recyclables



TESM (TE Special HSS Master alloy)

Chemical Composition

Product	C	Cr	Mo	V	W	Co	Grade
TESM I	0.7~0.9	3.5~3.7	4.8~5.0	1.5~1.7	5.6~6.1	-	M2, SKH51, 1.3343, W6Mo5Cr4V2
TESM II	0.7~0.9	3.5~3.7	4.8~5.0	1.5~1.7	5.6~6.1	4.5~4.8	M35, SKH55, 1.3243, W6Mo5Cr4V2Co5
Others	Si < 1, P < 1, Mn < 1, S < 1						

** Composition Customizable based on Client Requests and Ingot Sizes

Comparison on HSS Material Manufacturing Methods

Present Present Manufacturing
Fe + Ferroalloys
→ Basic HSS Materials

TE Manufacturing with Master Alloy
TE's Master Alloy
→ Basic HSS Materials

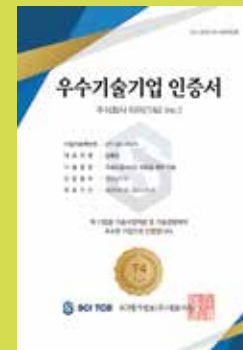
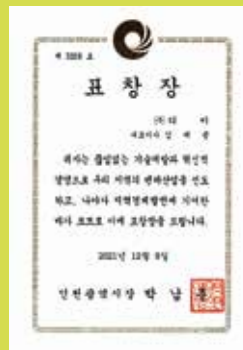


About Us

History

- 2020.10 Establishment of corporation
- 2020 Ministry of Environment Eco Start-up Preliminary Start-up
- 2021 Ministry of Environment Eco-Start-up Initial Start-up
- 2021 KODIT Step-up Challenge Company Warranty Package
- 2021 KNCPC Ecological Industry R&D Project
- 2021 Ministry of SME Collaborative academy-industry-institute R&D (with KIGAM, ~2024)
- 2021 Incheon Mayor's Commendation Award
- 2022 KOSME Export Voucher
- 2022 KISTA IP R&D to establish patent infrastructure
- 2022 Japan M Steel PoC, exports 5 tons of HSS master alloys
2 patents, 2 PCTs, 6 trademarks, venture company certification, and research institute

Patents and Certificates



Patent registration

patent application

Incheon Mayor's Commendation Award

Certificate as Excellent Technology Company

