



Verona
(Italy)

NLMK Verona Tool Steels

Engineered for precision
Forged for performance

VIRAT | Special Steels
Authorized Partner (Hot Work Steel)



OUR PRODUCT RANGE

CHOOSING THE RIGHT STEEL FOR YOUR INDUSTRY

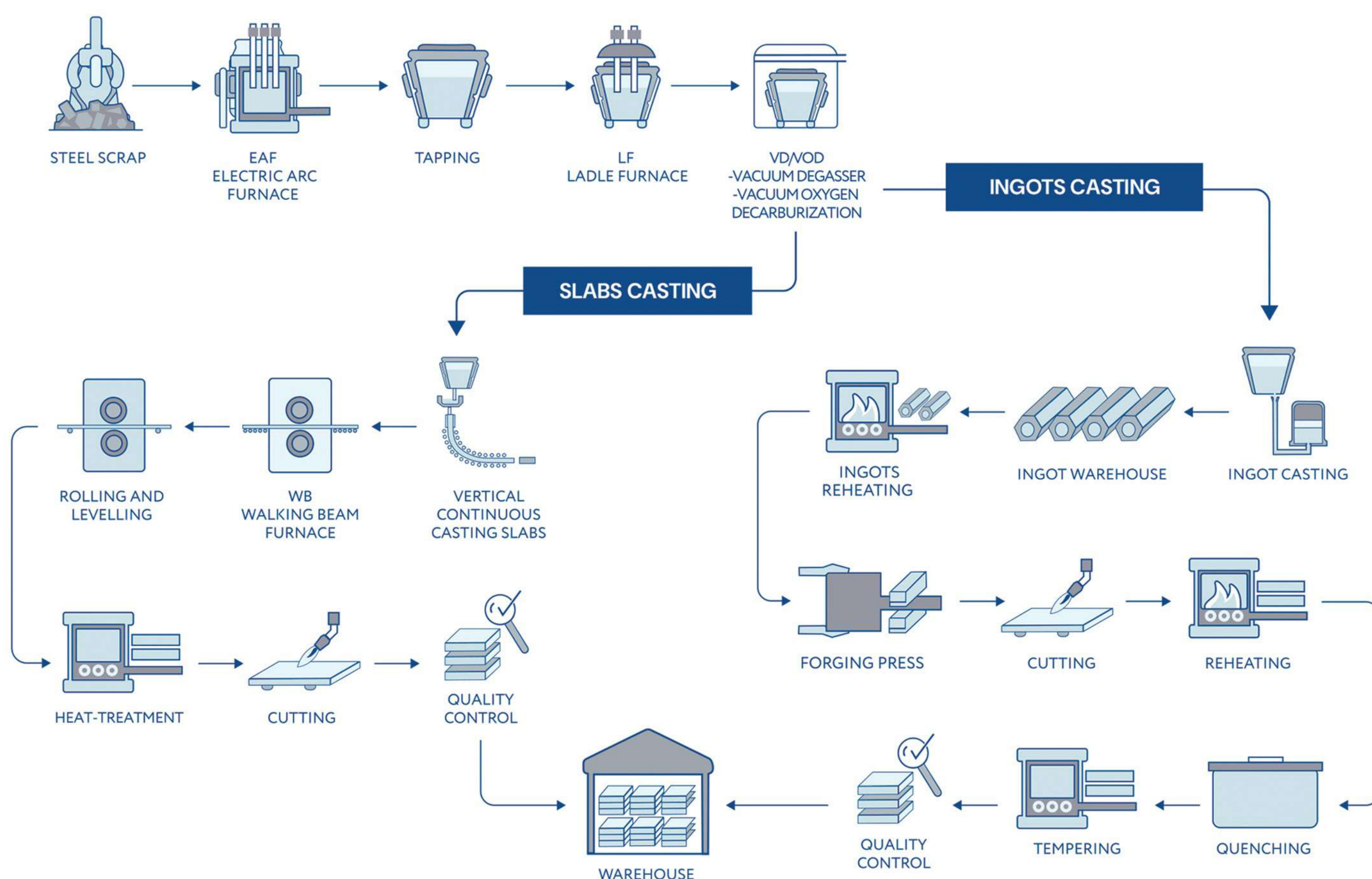
CATEGORY	STEEL GRADES	KEY PROPERTIES	TYPICAL SECTORS
PLASTIC MOULDS	1.1730 (C45/1045) 1.2312 1.2311 VR200 / HH VR300 / HH 1.2738 1.2738HH VR400 / ESR 1.2085 1.2083 / ESR VRSTAINLESS 1.2316 / ESR VR16 / HH / ESR 17-4 PH	Machinability, polishability, Thermal conductivity, texturability	Automotive, medical, electronics, packaging, furnitures, white goods
HOT WORK	1.2343 EFS 1.2343 ESR 1.2344 ESF 1.2344 ESR 1.2367 1.2714	Machinability, toughness, Hot wear resistance	Aluminium die casting: Gravity / Shell Casting Forging
COLD WORK	1.2510 1.2842	Machinability, low thermal deformation, toughness and wear resistance	Cutting tools and stamping tool for deep drawing

FROM RAW MATERIAL TO HIGH-PERFORMANCE STEEL – OUR PRODUCTION PROCESS

OPTIMIZED MANUFACTURING STEPS FOR PREMIUM QUALITY

- 01 Steel melting:** Electric Arc Furnace (EAF) technology to recycle and refine raw materials with secondary metallurgy to reduce environmental impact.
- 02 Casting:** Employing ingot and continuous casting methods for consistent material quality.
- 03 Forging and rolling:** Uniformity and full mechanical integrity across all dimensions.
- 04 Heat treatment:** State-of-the-art processes like normalization, quenching and tempering to enhance strength and toughness.
- 05 Machining and finishing:** Delivering precision through advanced machining techniques, tailored to customer specifications.
- 06 Quality control:** Rigorous inspections and tests at every stage to guarantee adherence to the highest standards.

This streamlined flow ensures VR Tool Steels maintains its commitment to excellence, reliability, and sustainability





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**VIRAT Special Steels Pvt. Ltd.:
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Headquarters

C-545, Sector-37, Pace City-II,
Gurgaon-122001 (HR) INDIA.

Landline: +91 124 4240036

Mobile: +91 98140 21775, 99991 24971- 80

E-mail: md@viratsteels.com

NLMK Verona S.p.a.

Via Antonio Salieri, 22 37050 Vallesse
di Oppeano - Italy

Phone: +39 045 699 7911
verona@eu.nlmk.com

www.nlmk.com

