

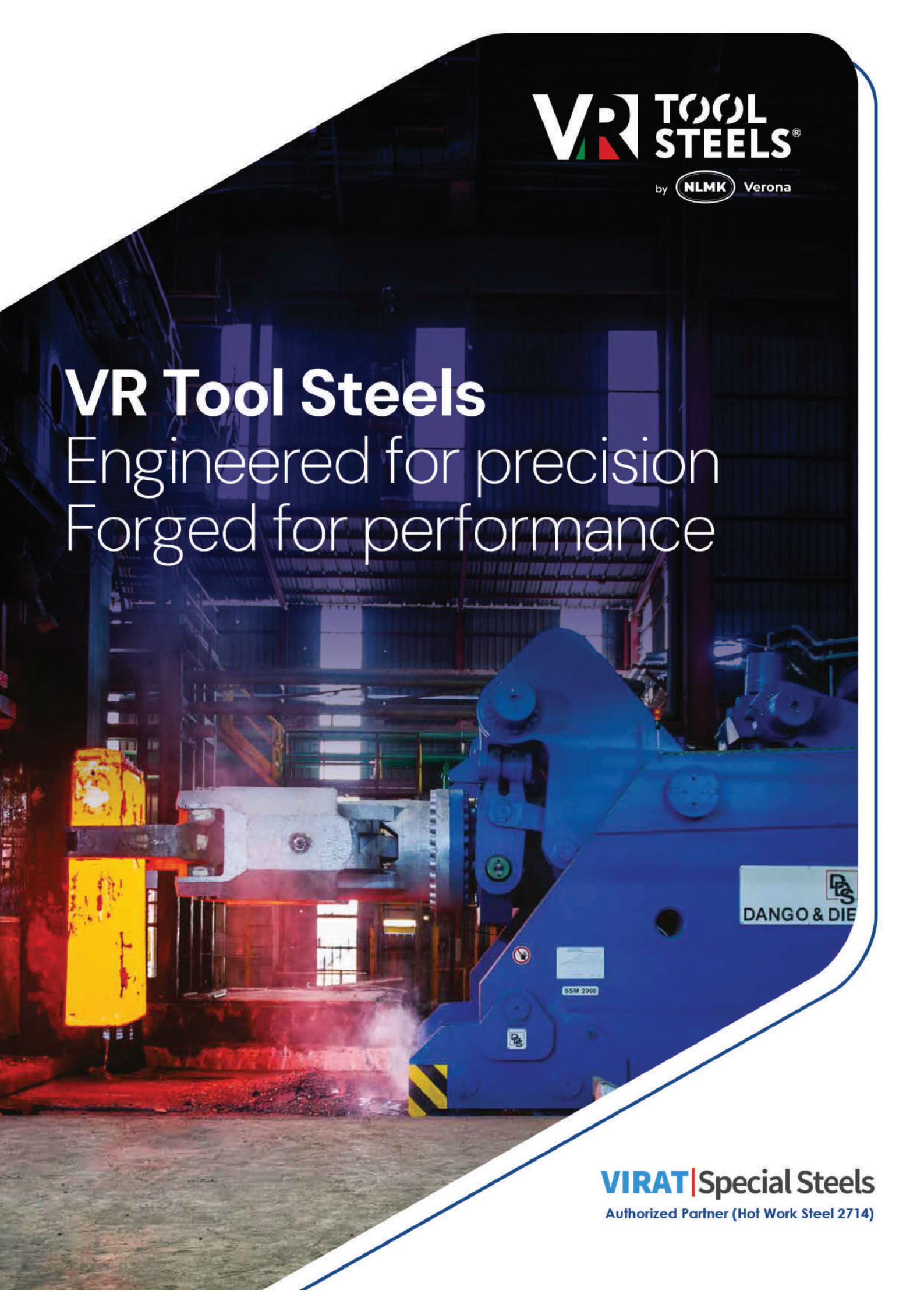


**VR TOOL  
STEELS®**

by **NLMK** Verona

# VR Tool Steels

Engineered for precision  
Forged for performance



**DANGO & DIE**

**VIRAT** | Special Steels

Authorized Partner (Hot Work Steel 2714)



# OUR PRODUCT RANGE

## CHOOSING THE RIGHT STEEL FOR YOUR INDUSTRY

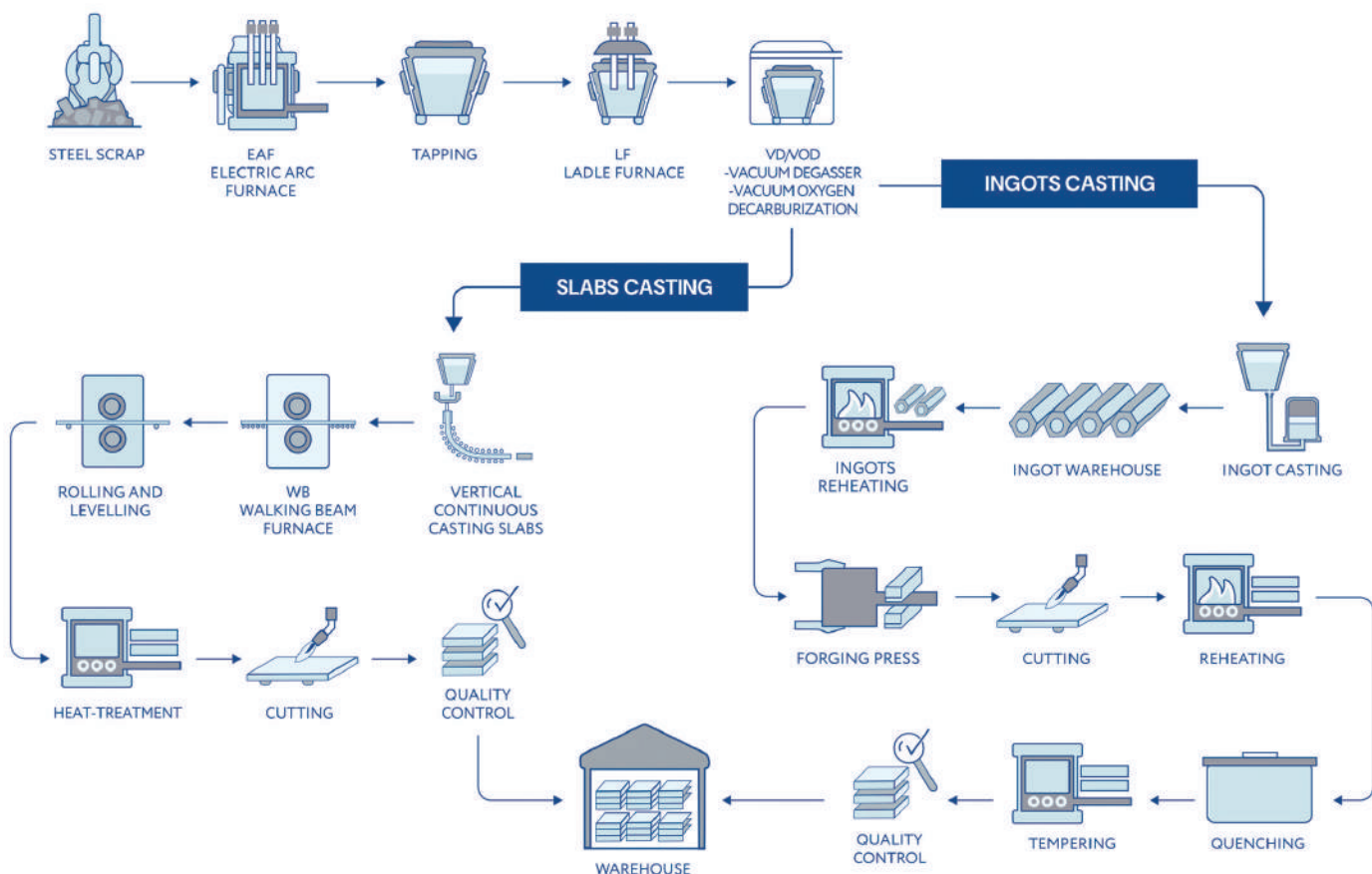
| CATEGORY          | STEEL GRADES                                                                                                                                                                                  | KEY PROPERTIES                                                                 | TYPICAL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





**VIRAT Special Steels Pvt. Ltd.:**

**Authorized Partner (Hot Work Steel 2714)**

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