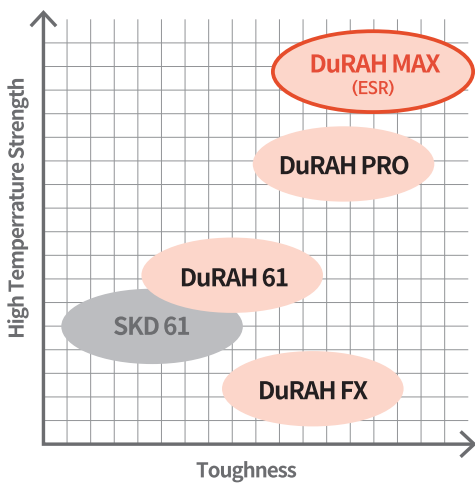


# DuRAH & DuMAC, Newly Developed High Performance Tool Steel Brands

## DuRAH

### Hot Work Tool Steel

Durability-Reinforced Advanced Hot Work Tool Steel



DuRAH series successfully responds to constant advancements in hot working technology by lengthening mould life with its improved mechanical properties. SeAH CSS is supplying DuRAH series in various sizes and shapes.

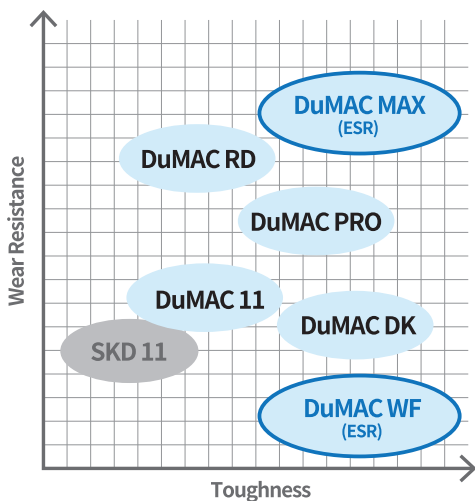
Product	Mechanical Properties	Applications
<b>DuRAH MAX</b> (ESR, 5Cr-2.8Mo-V)	Top-level product with hot hardness, toughness & heat checks resistance	General, Precise die-casting, etc.
<b>DuRAH PRO</b> (5Cr-1.5Mo-V)	Improved temperature strength, toughness & mould life compared to DuRAH 61	Forging/Stamping, Die-casting, etc.
<b>DuRAH 61</b> (5Cr-1.2Mo-V)	Hot tool steel with stable high temperature strength & toughness	General moulds
<b>Specialized Grade</b> <b>DuRAH FX</b> (5Cr-1Mo-V)	Less cracks acquired by improved toughness	Specialized for Forging & Extrusions

❖ DuRAH 61 has improved mechanical properties than SKD 61.

## DuMAC

### Cold Work Tool Steel

Durability-Maximized Advanced Cold Work Tool Steel



DuMAC series has improved mechanical properties suitable for various and severe usage environments. It provides various options to customers ranging from ESR grades for cutting AHSS to Matrix HSS for punch dies.

Product	Mechanical Properties	Applications
<b>DuMAC MAX</b> (ESR, 1C-8Cr-Mo-V)	Longer life by improving hardness & restraining creation of chippings	Trimming dies (Advanced High Strength Steel)
<b>DuMAC PRO</b> (1C-8Cr-Mo-V)	Increased dimensional stability & machinability	Cold forming (High Strength Steel)
<b>DuMAC 11</b> (1.5C-12Cr-Mo-V)	Cold tool steel with stable wear resistance	General moulds
<b>Specialized Grade</b> <b>DuMAC RD</b> (1C-7Cr-Mo-V)	Improved hardness(HRC 64) & toughness	Rolling dies
<b>DuMAC DK</b> (0.8C-8Cr-Mo-V)	Chipping resistant steel with high toughness	Dies & Knives
<b>Specialized Grade</b> <b>DuMAC WF</b> (ESR, 0.6C-4.5Cr-Mo-V)	Matrix HSS with high toughness	Warm & Cold punch

❖ DuMAC11 has an improved quality than SKD 11, JIS Spec

■ ESR(Electroslag Remelting) is a manufacturing process of rapidly re-coagulating ingots which are reused using electricity resistance heat. ESR applied products have longer mould life, improved cleanliness and toughness realized by decreasing segregations.