



**LINDQUIST STEELS, INC.**  
**TOOL STEEL SPECIALISTS**

AN ISO 9001:2015 CERTIFIED COMPANY



## HIGH PERFORMANCE MOLD & DIE STEELS

Available exclusively through Lindquist Steels, Inc. from Daido Steel Ltd. & SSAB

**NAK 55<sup>®</sup>** (P, BI, R) Age-hardened to an even 38-42 HRC. The best welding mold steel available, with no rise in hardness in the HAZ. Extremely stable and never needs stress relieving. A super clean vacuum arc remelted steel that machines up to 30-40% faster than P20.

**NAK 80<sup>®</sup>** (P, BI, R) A leading Optical Polish mold steel. Age-hardened to 38-42 HRC. The best welding mold steel available with no rise in hardness in the HAZ. Polishes to a SPE/SPI #1 finish. A leading Lens Quality Mold Steel. Extremely stable and never needs stress relieving. A super clean vacuum arc remelted steel that machines 10-20% faster than P20.

\*Limited availability in Rounds.

**PX5<sup>®</sup>** (P, BI, R) An improved P20 Modified that is through hardened to 29-33 HRC. The best welding P20 type available. Cuts welding and machining time by 50% compared to any P20 type. Extremely tough and stable. There is no need for pre- or post heating in most welding applications. PX5 has very little rise in hardness in the HAZ. You can even texture over weld lines.

**DH2F<sup>®</sup>** (P, BI, R) A 37-41 HRC pre-hardened H13 modified steel. The best machining, pre-hardened H13 modified steel available. Consistent hardness throughout, and extremely stable. Superior wear resistance to typical H13 at like hardness.

**DC53<sup>®</sup>** (P, BI, R, Ba) High performance medium chrome cold work die steel. Uniform distribution of carbides, excellent galling & wear resistance. Great impact, compression, and temper resistance. Stable in heat treatment and capable of 64 HRC. DC53 has better wear resistance than D2 and is not brittle like D2 at higher hardness.

**DCMX<sup>®</sup>** (P, BI, R, Ba) High performance cold work die steel capable of high hardness, high toughness, and excellent machinability and stability during heat treating.

**Toolox 33<sup>®</sup>** (P) A pre-hardened 30-35 HRC plate material that is quenched & tempered with ESR properties. Dimensionally stable and terrific impact strength.

**Toolox 44<sup>®</sup>** (P) The only 45 HRC pre-hardened plate available. Dimensionally stable quench & tempered with ESR properties. Well suited for plastic molds, dies, and forging dies and other high wear components. Better thermal conductivity than H13.

\*Limited availability in Rounds.

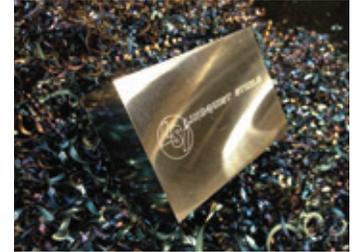
**Porcerax II<sup>®</sup>** (P, B, R, & Pre-Mfg Pins - Pore Sizes: 7 & 20 Micron) A metallurgical breakthrough. Porous, gas permeable mold steel that allows trapped gases to escape through the mold steel. Reduces short shots and resin burning; weld/flow lines and scrap rates; cycle times and injection pressure.

**DHA-World** (P, BI) NADCA Approved. DHA-World is a premium improved H13 steel. It has high hardenability and high toughness when used as a general hot work die steel. It can achieve higher hardness than conventional H13. Widely used for aluminum die cast tooling.

**DH21** (P, BI) A premium double melt H13 Modified hot work die steel with 2% Moly. Commonly used for aluminum die cast dies. It has excellent heat check resistance, mechanical properties at high temperatures, temper resistance, oxidation resistance, and nitriding properties. It was developed to extend the life of aluminum diecast molds.

**DH31-EX** (P, BI) \*Pending NADCA Approval. A super premium double melt H13 Modified hot work die steel with 2.5% Moly. This is a super forging material that has the best balance of strength and toughness. It has excellent heat check resistance and high toughness and strength. It also has a high resistance to "softening" when used at elevated temperatures. Commonly used for aluminum extrusion dies, aluminum die cast dies, aluminum die cast parts (pins, plunger sleeves), hot forging dies, & hot pressing dies.

**P = Plate BI = Block R = Rounds Ba = Barstock**



DC53<sup>®</sup>, NAK 55<sup>®</sup>, NAK 80<sup>®</sup>, DH2F<sup>®</sup>, PX5<sup>®</sup>, DHA-World<sup>®</sup>, DH21<sup>®</sup>, DH31-EX<sup>®</sup> and DCMX<sup>®</sup> are registered trademarks of Daido Steel Ltd. Porcerax<sup>®</sup> is a registered trademark of Sintokogio, Ltd. Toolox<sup>®</sup> is a registered trademark of SSAB Oxelosund. DFARS compliant.

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