NIPPON KORNMEYER

CONTINUOUS CASTING OF METALS

Visit our website:
www.nk-carbon.com

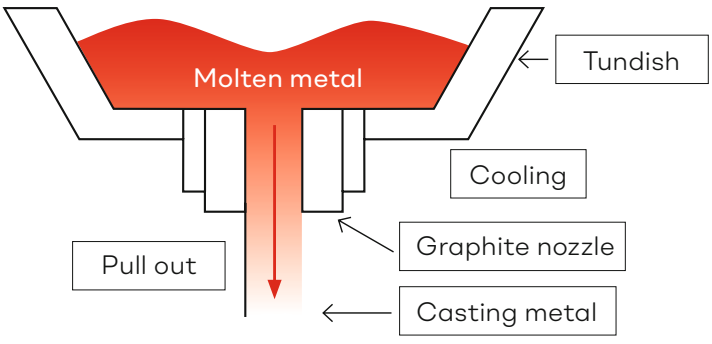
The Nippon Kornmeyer Carbon Group produces isostatically pressed graphite moulds for continuous casting of cast iron, copper alloys, and precious metals.

We offer a range of graphite grades tailored to each casting process and metal type — meeting the highest customer demands.

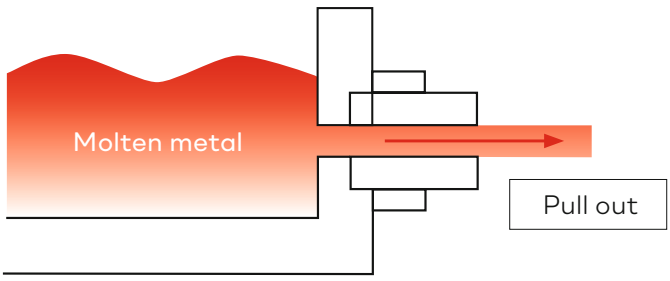
From raw material to finished mould, **Nippon Kornmeyer** provides all resources required for producing graphite moulds of any kind.

- Application of various coatings, such as PyC, to extend service life and reduce open porosity
- Reconditioning of used moulds
- Engineering services for the adaptation of custom designs or the assembly of segmented moulds

1. VERTICAL TYPE



2. LATERAL TYPE

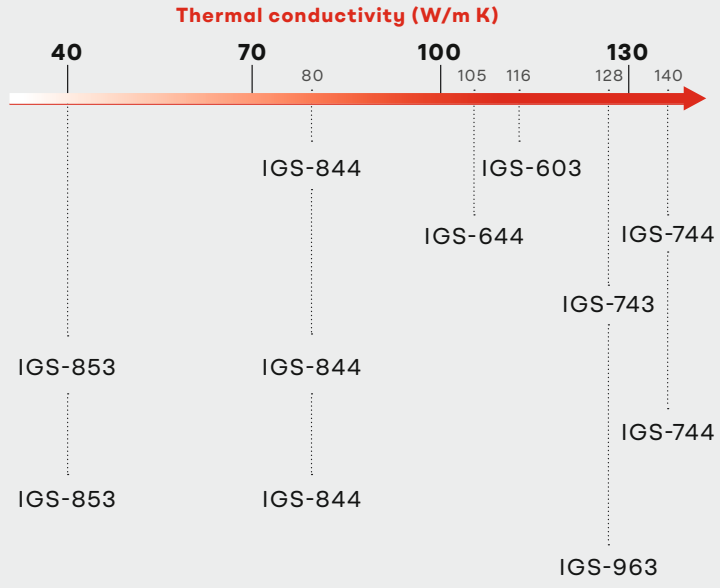


GENERAL CHARACTERISTICS OF GRAPHITE SPECIALTIES

Grade	Bulky Density	Bending Strength (Mpa)	Specific Resistance (μΩm)	Coefficient of Thermal Expansion (x10-6/K)	Termal Conductivity W/m·k	Shore Hardness
IGS-603	1.80	44	12.5	4.6	116	57
IGS-644	1.83	54	15.5	5.0	105	66
IGS-743	1.80	54	12.5	4.8	128	60
IGS-744	1.86	59	11.0	4.8	140	64
IGS-844	1.85	64	17.0	5.4	80	78
IGS-853	1.80	55	22.0	4.3	40	74
IGS-963	1.80	54	12.5	4.2	128	56

RECOMMENDED GRAPHITE GRADES FOR CONTINUOUS CASTING

Metal	Important properties
Pure copper	• Thermal conductivity
Brass	• Wet resistance
Ton bronze	• Coefficient of thermal expansion (CTE)
Cast iron	• Heat resistance
Phosphor bronze	
Nickel silver	
Stainless steel	



IN BUSINESS SINCE 1968

The Kornmeyer family has been supplying the market for carbon-based materials and driving innovation since 1968. Today, the **Nippon Kornmeyer Carbon Group** is a company jointly operated by the shareholders of the Kornmeyer Carbon Group (Germany) and Nippon Carbon Co., Ltd. (Japan), a carbon manufacturer listed on the Tokyo Stock Exchange.

Nippon Kornmeyer specialises in the design, simulation, manufacture, coating and cleaning of carbon- and ceramic-based materials, as well as technical support in these areas, and counts companies in Europe, the Middle East, Africa, Asia and America among its customers. The key industries it supplies cover the following segments: industry, metal, heat treatment, automotive, solar (photovoltaics), semiconductors and aerospace.