Nachi Cutting Tools

General

NACHI AMERICA INC.
CUTTING TOOL
DIVISION

Introduction to Nachi

THE NACHI DIFFERENCE --- MATERIAL AND HEAT TREATMENT

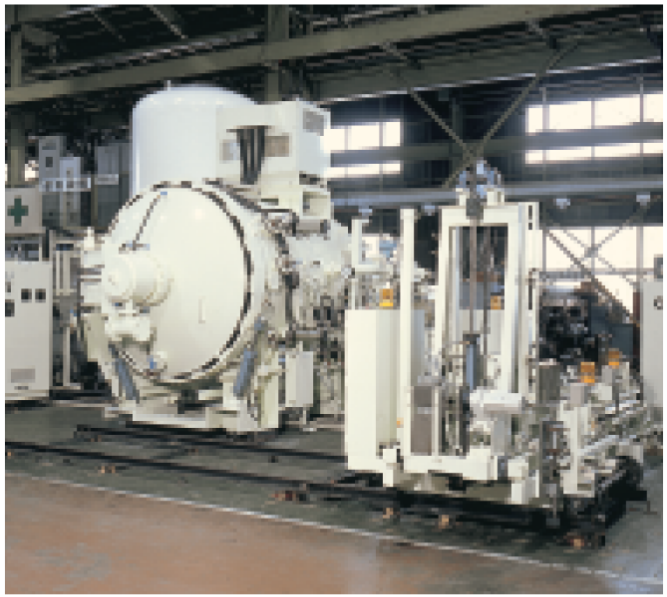
Clean Steel

Material and heat treatment are major factors in determining the performances of the HSS tool. To provide high-quality HSS tools, NACHI-FUJIKOSHI has a steel mill to manufacture the HSS steels conforming to individual requirements for our in-house use as well as for outside sales.

Electric arc furnace

Clean Heat Treatment

In the field of heat treatment, we are producing and marketing vacuum heat treatment furnaces, which are highly evaluated among users both in Japan and abroad. Further, through technical tie-ups with Sumitomo Electric Industries Co., Ltd., we use cemented carbide materials best suited to individual requirements.



Horizontal type one chamber gas pressure quenching vacuum furnace

NACHI

NACHI MANUFACTURES THERE OWN MATERIAL

THE NACHI DIFFERENCE --- MATERIAL AND HEAT TREATMENT

High-speed tool

Main high-speed tools and their applications

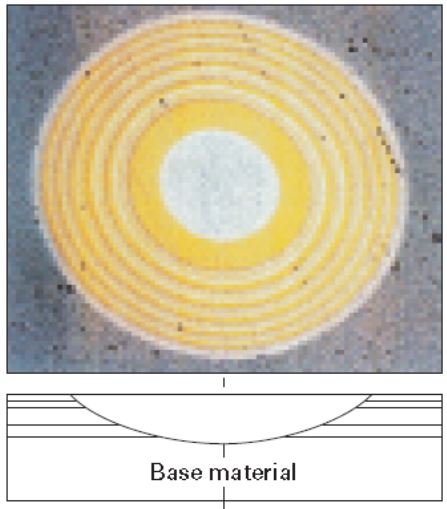
Classification	Steel type symbol			Chemical component						Application
	JIS	AISI	NACHI	C	Mo	W	Cr	V	Co	
High-speed steel	SKH10	T 15	HS55T	1.5		12	4	5	5	Basic steel type, cutting tool
	SKH51	M 2	SKH51	0.85	5	6	4	2		Drill, broach, others in general
	—	M33	HM33	0.9	9.5	1.5	4	1.2	8	Drill, gear cutting tool, others in general
	—	M34	HM34	0.9	8	2	4	2	8	Cutting tool, others in general
	SKH55	M35	HS53M	1.05	5.5	6	4	2.5	5	Cutting tool, others in general
	SKH57	—	HS93R	1.25	3.5	10	4	3.5	10	Tool material
	SKH59	M42	HS96H	1.1	9.5	1.5	4	1.2	8	End milling cutter and others
			HS97R	1.1	5.5	7.5	4	1.8	9	End milling cutter, tap
Powdered High-speed steel			FAX18	1.1	9.5	1.5	4	1.2	8	Saws and others
			FAX31	1.3	5.5	6	4	3		General
			FAX38	1.3	5	6	4	3	8	Gear cutting tool, tap, others in general
			FAX55	1.6		12	4	5	5	Gear cutting tool, broach, others in general
			FAX90	2.6	3.5	10	4	8.5	10	General (high alloy material)

Introduction to Nachi

THE NACHI DIFFERENCE --- COATING TECHNOLOGY

Composite multi-layer coating

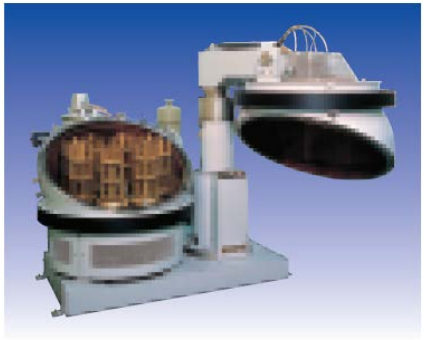
As a cutting tool coating technique, this coating technique provides improved wear resistance and ensures protection of the base materials (through the use of a composite multi-layer configuration), centering on the general-purpose TIN G-series. We have established the manufacturing conditions of various series of our company, including the SG series of high-speed steel.



Composite multi-layer film (UG-Coating)

Coating equipment

Our R & D efforts cover the development of coating equipment indispensable to the developing of new coating technology.


Coating equipment

Thank You