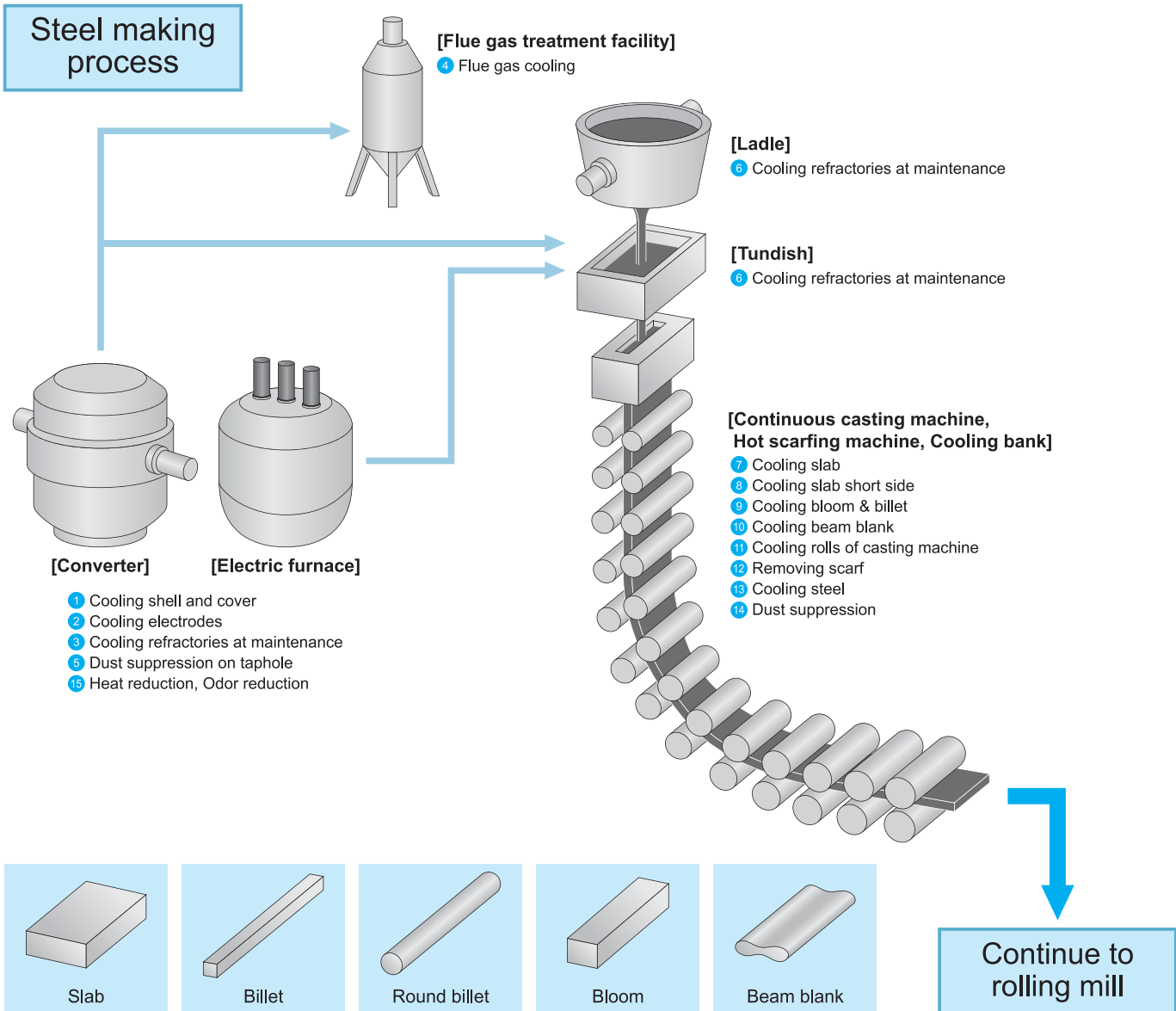


# Nozzle applications for each process



Process	No.	Application	Nozzle series	Nozzle description	Page
Steel making	1	Electric furnace Cooling shell and cover	AJP Wide-angle AJP JJXP	• Clog-resistant, full cone spray • Wide spray angle version of AJP • Standard full cone spray	p.56 p.57 p.54
	2	Cooling electrodes	BIM VVP	• Fine fog spray • Standard flat spray	p.24 p.39
	3	Electric furnace, Converter Cooling refractories at maintenance	GSIMII	• Large capacity fine fog spray	p.29
	4	Flue gas treatment facility Flue gas cooling	GSIMII	• Large capacity fine fog spray	p.29
	5	Electric furnace, Converter Dust suppression on taphole	GSIMII	• Large capacity fine fog spray	p.29
	6	Ladle, Tundish Cooling refractories at maintenance	BIM Header GSIMII CLJ	• BIM integrated spray header • Large capacity fine fog spray • Semi-Dry Fog® cooling fan unit	p.27 p.29 p.76
	7	Continuous casting machine Cooling slab	DOVEA DOVEA-W DDRP+AS VVP+AS	• Even flat spray • Thick even flat spray • Hydraulic/Pneumatic (dual-use) thick even flat spray • Hydraulic/Pneumatic (dual-use) flat spray	p.17 p.18 p.21 p.23
	8	Cooling slab short side	DDA	• Ultra-thick flat spray	p.19

Process	No.	Application	Nozzle series	Nozzle description	Page
Steel making	9	Continuous casting machine Cooling bloom & billet	DDA DDRP+AS VVP+AS VVP WVVP DDRP JJXP BBXP SSXP	• Ultra-thick flat spray • Hydraulic/Pneumatic (dual-use) thick even flat spray • Hydraulic/Pneumatic (dual-use) flat spray • Standard flat spray • Thick flat spray • Ultra-thick even flat spray • Standard full cone spray • Wide-angle full cone spray • Square full cone spray	p.19 p.21 p.23 p.39 p.43 p.47 p.54 p.59 p.61
	10	Cooling beam blank	DOVEA DOVEA-W	• Even flat spray • Thick even flat spray	p.17 p.18
	11	Roll coding	DOVEA DDA DDRP+AS VVP+AS BIM	• Even flat spray • Ultra-thick flat spray • Hydraulic/Pneumatic (dual-use) thick even flat spray • Hydraulic/Pneumatic (dual-use) flat spray • Fine fog spray	p.17 p.19 p.21 p.23 p.24
	12	Hot scarfing machine Removing scarf	VVEP CCP	• Even flat spray • Solid stream jet	p.44 *
	13	Cooling bank Cooling steel	GSIMII CLJ	• Large capacity fine fog spray • Semi-Dry Fog® cooling fan unit	p.29 p.76
	14	Work environment Dust suppression	CLJ KB	• Semi-Dry Fog® cooling fan unit • Small capacity fine fog hollow cone spray	p.76 *
	15	Work environment • Heat reduction • Odor reduction	CLJ LYOHM System	• Semi-Dry Fog® cooling fan unit • Semi-Dry Fog® cooling system	p.76 *

Remarks: For details of the products marked with \*, please contact us.