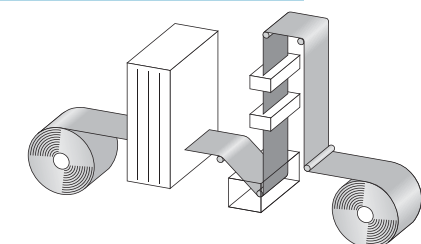


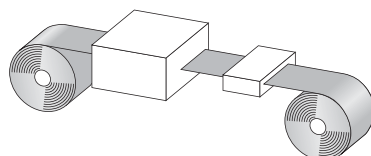
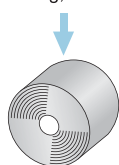
Nozzle applications for each process

Surface finish



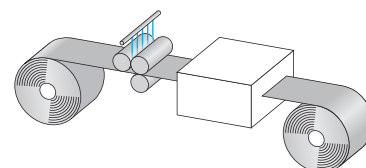
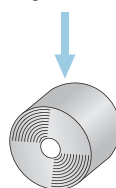
[Continuous galvanizing line (CGL)]

- 1 Minimized spangle treatment
- 2 Cooling top roll and steel sheet after galvanizing
- 3 Blowing off drying, Air cooling, Blowing off dust
- 5 Degreasing, Washing, Rinsing



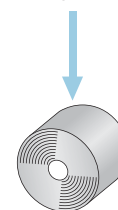
[Electrolytic galvanizing line (EGL)]

- 3 Blowing off liquid
- 4 Fume suppression
- 6 Washing, Chemical rinsing



[Continuous coating line (CCL)]

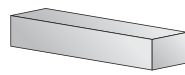
- 3 Blowing off liquid
- 7 Cooling after drying



Other processes



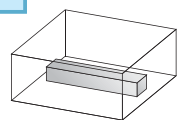
[Billet]



[Bloom]

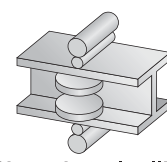


[Beam blank]



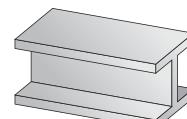
[Reheating furnace]

- 8 Flue gas cooling, Refractory cooling



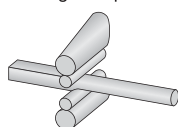
[Shaped steel rolling]

- 9 Descaling, H-shaped steel cooling
- 10 Shaped steel cooling, Blowing off liquid
- 12 Fume suppression



[Shaped steel]

- 14 Steel cooling



[Wire rod rolling]

- 11 Wire rod cooling, Lubricant coating
- 12 Fume suppression
- 13 Agitation in salt bath



[Wire rod in coil]

- 14 Steel cooling

Process	No.	Application	Nozzle series	Nozzle description	Page
Surface finish	1	CGL Minimized spangle treatment	BIM BIM Header LLYOH	• Fine fog spray • BIM integrated spray header • Blower LYOHM header	p.24 p.27 p.71
	2	Cooling top roll and steel sheet after galvanizing	BIM BIM Header VVEA BAVV	• Fine fog spray • BIM integrated spray header • High impact flat spray • Blower-air driven fine fog spray	p.24 p.27 p.34 p.37
	3	CGL, EGL, CCL Blowing off drying, Air cooling, Blowing off dust Blowing off liquid	VVEA TAIFUJet® SLNHA-H SLNB PSN	• High impact flat spray • Air nozzles • Slit nozzles • Slit nozzles utilizing blower air • Pneumatic slit nozzles	p.34 p.67 p.69 p.70 p.71
	4	EGL Fume suppression	LYOHM System	• Semi-Dry Fog® cooling system	*
	5	CGL Degreasing, Washing, Rinsing	BRASIKan® VVEA VVP MOMO INVV ES	• Brush-cleaning nozzle header • High impact flat spray • Standard flat spray • Self-cleaning, flat spray • Quick-detachable standard flat spray • Rotating cleaning nozzles	p.15 p.34 p.39 p.51 p.52 p.75
	6	EGL Washing, Chemical rinsing	VVEA VVEP MOMO INVV PSN	• High impact flat spray • Even flat spray • Self-cleaning, flat spray • Quick-detachable standard flat spray • Pneumatic slit nozzles	p.34 p.43 p.51 p.52 p.71
	7	CCL Cooling after drying	BIM Header LLYOH	• BIM integrated spray header • Blower LYOHM header	p.27 p.71

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

Process	No.	Application	Nozzle series	Nozzle description	Page
Other processes	8	Reheating furnace Flue gas cooling	GSIMII	• Large capacity fine fog spray	p.29
		Refractory cooling	GSIMII CLJ	• Large capacity fine fog spray • Semi-Dry Fog® cooling fan unit	p.29 p.76
	9	Shaped steel rolling Descaling	TDSS	• Descaling	p.12
		H-shaped steel cooling	EJVVP DDRP WOVVEP	• Air mixing type flat spray • Ultra-thick even flat spray • Off-center thick even flat spray	p.46 p.47 p.50
	10	Shaped steel rolling • Shaped steel cooling • Blowing off liquid	VVP OVVEA TAIFUJet®	• Standard flat spray • Off-center even flat spray • Air nozzles	p.39 * p.67
	11	Wire rod rolling • Wire rod cooling • Lubricant coating	BIM	• Fine fog spray	p.24
Work environment	12	Shaped steel rolling, Wire rod rolling Fume suppression	GSIMII	• Large capacity fine fog spray	p.29
	13	Wire rod rolling Agitation in salt bath	EJX	• Ejector nozzles for solution agitation	*
	14	Shaped steel, Wire rod in coil Steel cooling	GSIMII CLJ	• Large capacity fine fog spray • Semi-Dry Fog® cooling fan unit	p.29 p.76
		Work environment Dust suppression	CLJ KB	• Semi-Dry Fog® cooling fan unit • Small capacity fine fog hollow cone spray	p.76 *
		Heat reduction	CLJ LYOHM System	• Semi-Dry Fog® cooling fan unit • Semi-Dry Fog® cooling system	p.76 *
		Spraying water on road	YYP	• Wide-angle flat spray	*
		Fire prevention • Fire fighting/Fire prevention • Water curtain	VVP AJP BBXP YYP CCP	• Standard flat spray • Clog-resistant, full cone spray • Wide-angle full cone spray • Wide-angle flat spray • Solid stream jet	p.39 p.56 p.59 * *
					*

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