

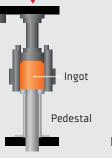




The PCC Energy Group provides total material solutions to the power generation, oil and gas, refining, chemical processing and general industrial markets. We are the foremost supplier of nickel-based alloys, titanium, stainless steel, and carbon and alloy steel products ranging from ingot to complex, value-added solutions. We produce pipe, fittings, forgings, tubing, cladding, sheet, plate, wire, rod and solid bar products in a wide array of sizes.

## VERTICAL EXTRUSION PROCESS

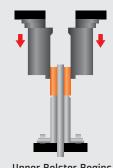




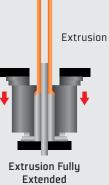
Upsetting Position to Remove Scale Potting Operation P

Piercing Position

Plug



Upper Bolster Begins to Move Down

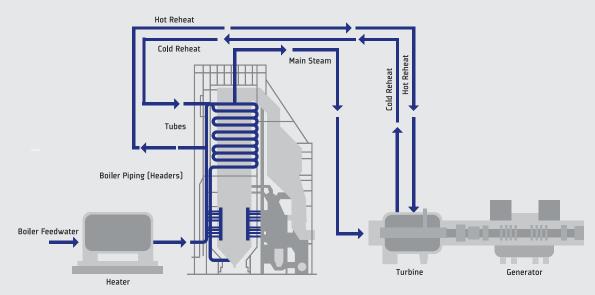


TrimPunch

Upper Bolster Moves Down to Trim Tang

TYPE	ASTM/ASME SPECIFICATION	EN 10216-2 SPECIFICATION	TU 3-923-75 SPECIFICATION	WYMAN GORDON	
<u></u>				- TYPE	SIZE RANGE
Carbon Steel	A/SA 106 B	St 45.8	15H1M1F	00	210 Jmm 1210 Jmm
	A/SA 106 C	St 45.8	16GS	UU	219.1mm – 1219.2mm
Chrome Moly	A/SA P1	16Mo3		- ID	203.2mm – 965.20mm
	A/SA P2	14MoV6-3		WT	12.5mm – 177.8mm
	A/SA 335 P11	15CrMoV5-10			
	A/SA 335 P12	13CrMo4-5			
	A/SA 335 P22	10CrMo9 10			
	A/SA 335 P23				
	A/SA 335 P36	15 NiCuMoNb5-6-4			
	A/SA 335 P91	X10CrMoVNb9-1			
	A/SA 335 P92	X10CrWMoVNb9-2			
	A/SA 335 P122				
		X2OCrMoV11-1			

## SUPERCRITICAL BOILER PROCESS



The PCC Energy Group offers a unique combination of metalworking capability, technology, and outstanding metallurgical know-how for the most demanding applications. For more than 40 years we have manufactured a variety of components for nuclear power plants and spent-fuel shortage. We can melt, extrude, draw, forge, roll and weld overlay from a range of materials, including carbon and alloy steels, austenitic stainless steels and exotic nickel alloys, with restricted or special chemistry capability. Wyman Gordon routinely supplies pipe in these grades of materials globally, to meet ASTM/ASME, Engineers India Limited (EIL) and "Well Known Pipe Maker", India Boiler Regulations, 1950, GOST and/or EN10216–2. Using the 35K extrusion press, the range of size capability is unmatched.

