



Official Authorized Stockist of

BENTELER 

Boiler Tubes, Heat Exchanger Tubes
For Process & Energy Industries



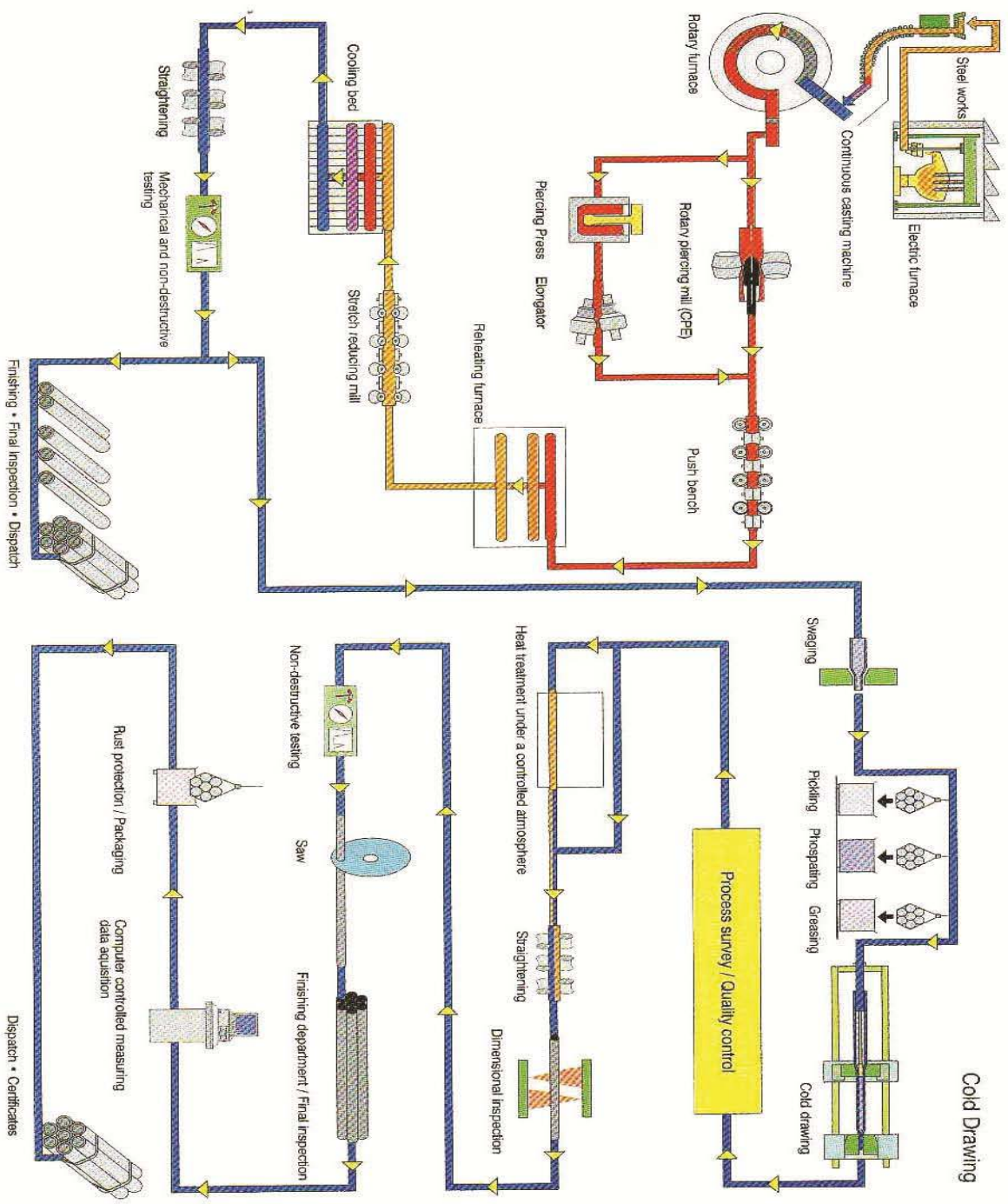
the **TUBE** and
PIPE SPECIALIST

"Benteller" - Germany

BOILER TUBE S SPECIFICATION

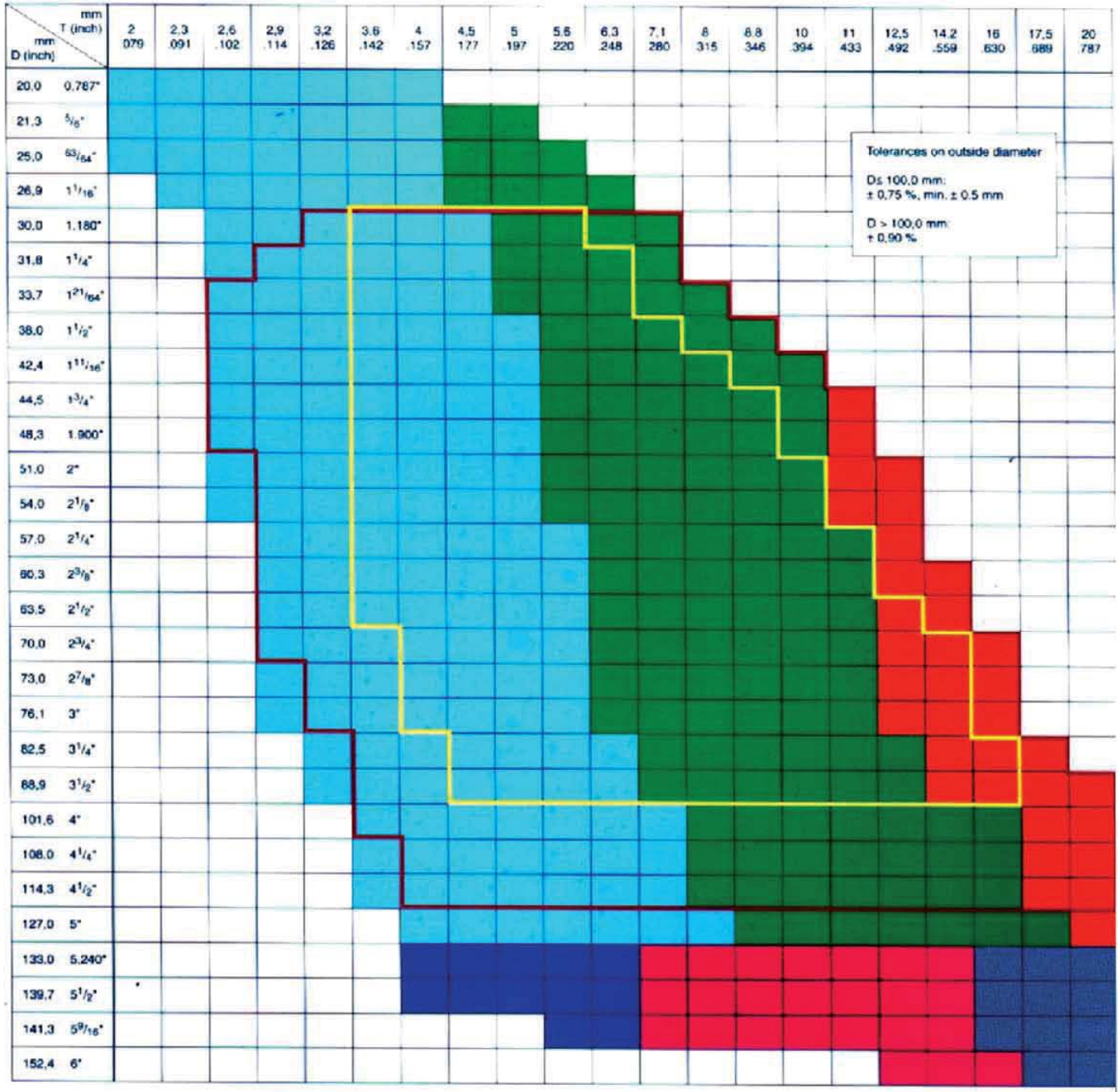
Product Classification	Steel Grades	ASTM (ASME) (USA)	DIN (Germany)	JIS (Japan)
HEAT EXCHANGER CONDENSER TUBES		A214	17175 St. 35.8	
		A179		
AIR PREHEATER TUBES	33/37	A178-Gr. A	17175 St. 37.8	
LOW CARBON STEEL BOILER AND SUPERHEATER TUBES FOR HIGH TEMP. SERVICE		A192		G3461 STB 340
		A226		
MEDIUM CARBON STEEL BOILER AND SUPERHEATER TUBES	42	A178-Gr. C	17175 St. 45.8	G3461 STB 410
		A210-Gr. A-1	17175 St. 42.8	
	49	A178-Gr. D	17175 17Mn4	
LOW ALLOY STEEL BOILER AND SUPERHEATER TUBES	52		17175 19Mn5	G3461 STB 510
	0.3 Mo		17175 15Mo3 17175 15Mo3	
ALLOY STEEL BOILER, SUPERHEATER AND HEAT EXCHANGER TUBES	1 / 2 Mo	A209-Gr. T1		G3462
		A209-Gr. T1		STBA 12
		A209-Gr. T1a		G3462
		A250-Gr. T1a		STBA 13
		A209-Gr. T1b		
		A250-Gr. T1b		
1 / 2 Cr 1 / 2 Mo	A213-Gr. T2	17175 14MoV63	G3462	
	A250-Gr. T2		STBA 20	
1 Cr 1 / 2 Mo	A213-Gr. T12	17175 1CrMo44	G3462	
	A250-Gr. T12		STBA 22	
1-1 / 4 Cr 1 / 2 Mo	A213-Gr. T11		G3462	
	A250-Gr. T11		STBA 23	
2-1 / 4 Cr 1 Mo	A213-Gr. T22	17175 10CrMo910	G3462	
	A250-Gr. T22		STBA 24	
9 Cr 1 Mo	A213-Gr. T9		G3462 STBA 26	

MANUFACTURING OF seamless steel tubes



TOLERANCES FOR seamless steel tubes for boiler & heat exchanger

According to DIN standard 1629, 1630, 17173, 17175, 17176, 17179 and corresponding international standards.
Dimensions according to ENV 10220 (ISO 4200, DIN 2448).



Tolerance ranges for wall thickness acc. to DIN 17175:



— X 20 CrMoV 12.1

— T9, T91, X10CrMoVNb 9-1

T = average wall thickness