







Manufacturing and stocking facilities

total area	sqmt.	160.000
units area	sqmt.	36.000
storage area	sqmt.	120.000
equipments area	sqmt	2.000
offices area	sqmt.	1.000
services area	sqmt.	1.000

Main equipment

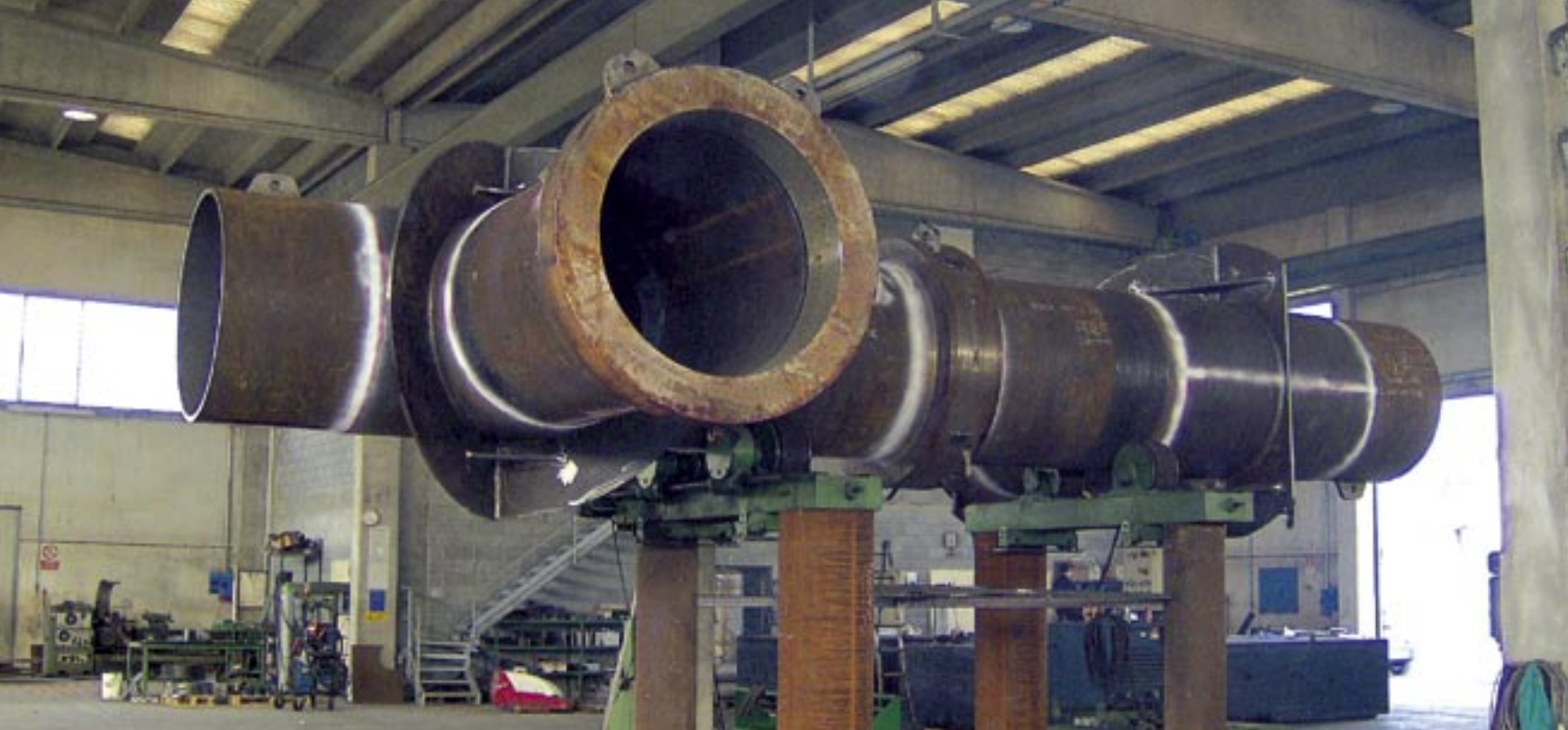
raw material cutting unit:	pipe band saws unit 840 mm
	oxyflame pantograph until wth 150 mm
	plasma arc until 80 mm
forging unit:	hydraulic press from 150 to 3000 tons
	heating fumace until 64"
	induction bending until 36"
rolling unit:	machines until 3 mt. width - 150 mm wth
welding unit:	oxyflame cutting until 150 mm
	plasma cutting until 150 mm
	grinding boxes
	GTAW equipments
	GMAW equipments
	SMAW equipments
	SAW equipments until 64"
cutting-sand blasting unit:	pipe band saws until 840 mm
	oxyflame cutting until 150 mm
	plasma cutting until 80 mm
heat treatment unit:	gas heat treatment furnace until 64"
	rx bunker
machining unit:	CNC boring machines until 102"
	automatic boring machines until 36"
	manual boring machines until 24"
shipment unit:	semiautomatic plant for painting until 48"
	CNC marking machines





Production range

fittings	induction bending	forged pipe/plate	assembled pipe/plate	rolled plate (max length 3000 mm)
elbows $\leq 12''$ 1,5d seamless execution	$\leq s160$	$> s160$		
elbows 14''-16'' 1,5d seamless execution	$\leq s120$	$> s120$		
elbows 18''-24'' 1,5d seamless execution	$\leq s80$	$> s80$		
elbows 26''-36'' 1,5d seamless or welded (1) execution		$\leq wth 30\text{ mm}$	$> wth 30\text{ mm}$	
elbows 26''-36'' 1,5d welded (2) execution	$\geq wth 10\text{ mm}$			
elbows 38''-64'' 1,5d welded (2) execution	$\geq wth 10\text{ mm}$			
elbows 66''-102'' 1,5d welded execution			$\geq wth 10\text{ mm}$	
elbows $\leq 24''$ 1-3-5d seamless execution	$\leq xs$	$> xs$		
elbows 26''-36'' 1-3-5d seamless or welded (1) execution		$\leq xs$	$> wth 30\text{ mm}$	
elbows 26''-36'' 1-3-5d welded (2) execution		$\geq wth 10\text{ mm}$		
elbows 38''-64'' 1d welded (2) execution		$\geq wth 10\text{ mm}$		
elbows 38''-64'' 3-5d welded execution			$\geq wth 10\text{ mm}$	
elbows 66''-102'' 1-3-5d welded execution			$\geq wth 10\text{ mm}$	
normal, reduced and barred tees (crosses) $\leq 24''$ seamless execution	$\geq std$			
normal, reduced and barred tees (crosses) 24''-60'' welded execution	$\geq std$			
normal, reduced and barred tees (crosses) 62''-102'' welded execution				$\geq wth 10\text{ mm}$
extruded and barred tees (crosses) 1/2''-24'' seamless execution			$\geq std$	
extruded and barred tees (crosses) 24''-60'' welded execution			$\geq std$	
extruded and barred tees (crosses) 62''-102'' welded execution				$\geq wth 10\text{ mm}$
spleet-lateral-y tees $\leq 24''$ seamless execution			$\geq std$	
spleet-lateral-y tees 24''-102'' welded execution			$\geq wth 10\text{ mm}$	
ANSI concentric and eccentric reducers 1/2''-24'' seamless execution			$\geq std$	
ANSI concentric and eccentric reducers 26''-48'' welded execution			$\geq std$	
conical concentric and eccentric reducers $> 48''$ welded execution				$\geq wth 10\text{ mm}$
caps, saddles, collars 1/2''-102'' seamless execution			$\geq std$	
pup pieces, sleeves 1/2''-24'' seamless execution		all wth		
pup pieces, sleeves $\geq 24''$ welded execution		$\geq wth 10\text{ mm}$		
fabricated components welded execution				$\geq wth 10\text{ mm}$





Quality materials

STEEL TYPES	ASTM / ASME S.A.	DESIGN CODES
carbon steel	A 234 WPB A 234 WPC	ANSI B 31.1 ANSI B 31.3
low temperature carbon steel	A 420 GR. 6°	ANSI B 31.4
low temperature carbon-nickel steel	A 420 GR. 3°	ANSI B 31.8
high yield carbon steel	A 860 WPHY 42 A 860 WPHY 46 A 860 WPHY 52 A 860 WPHY 56 A 860 WPHY 60 A 860 WPHY 65 A 860 WPHY 70	ASME I ASME VIII DIN 2413 AD MERKBLATT/B2
alloy carbon-molybdenum steel	A 234 WP1	AD MERKBLATT/B3
alloy chromium-molybdenum steel	A 234 WP11 A 234 WP12 A 234 WP22 A 234 WP5 A 234 WP9	AD MERKBLATT/B9
alloy chromium-molybdenum-vanadium steel	A 234 WP91	
alloy chromium-molybdenum-vanadium-niobium steel	A 234 WP92	
austenitic stainless steel	A 403 WP 304 (L-H-LN-N) A 403 WP 316 (L-H-LN-N-Ti) A 403 WP 321 (H) A 403 WP 347 (H)	MANUFACTURING CODES ANSI B 16.9 ANSI B 36.10 ANSI B 36.19 MSS SP 75 MSS SP 43 DIN 2605
austenitic ferritic stainless steel	UNS S31803 UNS S32304 UNS S32550 UNS S32750 UNS S32760	DIN 2615 DIN 2616 DIN 2617
copper nickel alloys	UNS C70600	AFNOR - BS - GOST - CSA
nickel alloys	AISI 127 AISI 168 AISI 443 AISI 424	



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