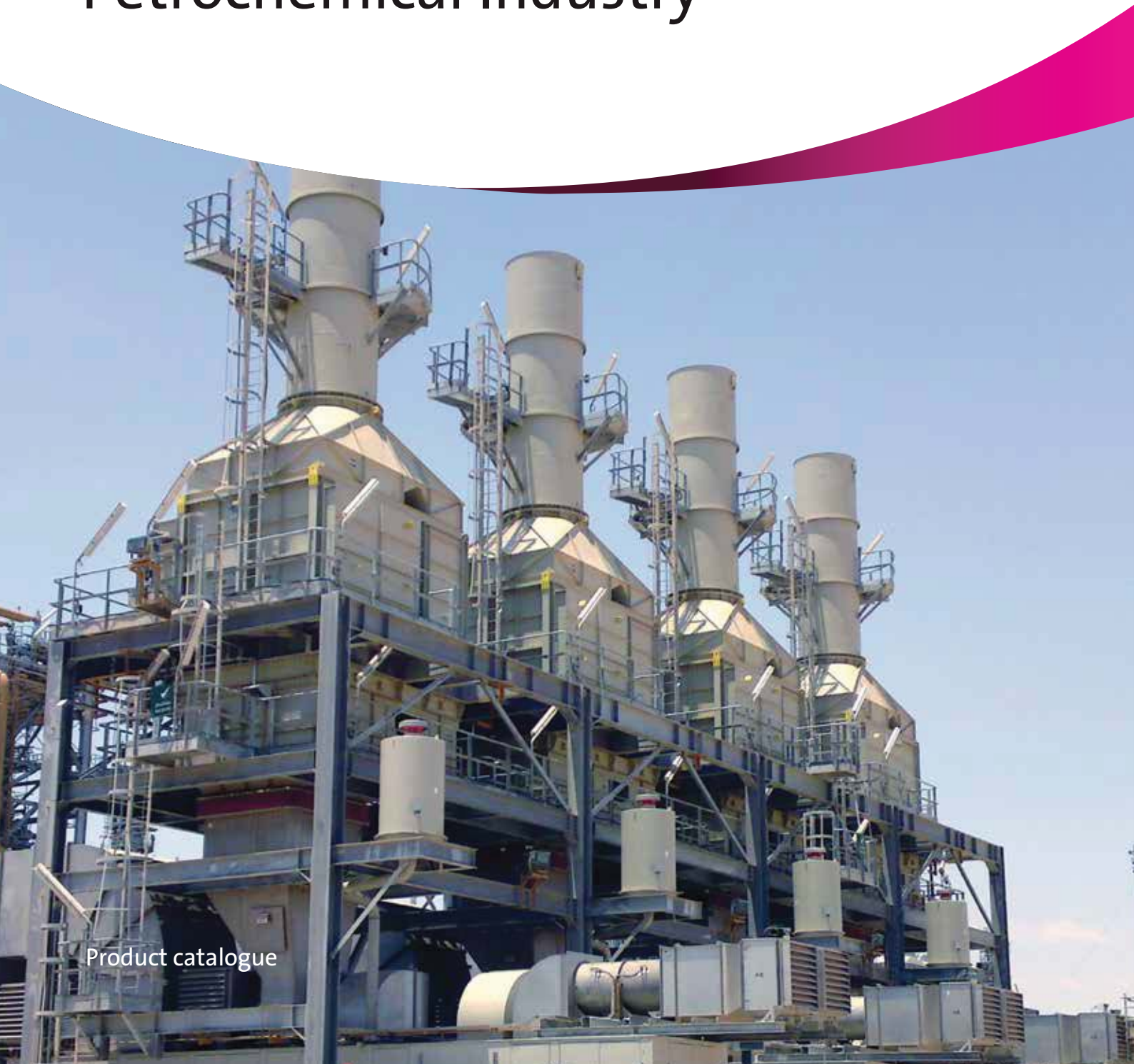


# Seamless Stainless Steel Furnace Pipes for Refineries and Petrochemical Industry



## ■ APPLICATION

Furnace tubes are the most critical part of the furnaces designed for fired heating, evaporation and cracking, as well as other hyper thermal chemical processes in refinery, petrochemical and chemical industries.

Reforming, cracking and hydrofining processes are marked by aggressive environments, – temperature, pressure, medium composition. Thus furnace tube material must be suitable to accommodate the environments providing maximum performance and safety flow.

## ■ STANDARD SPECIFICATIONS

ASTM / ASME A/SA-213/SA-213M; A/SA-312/SA-312M; EN 10216-5; SEW 470, ASTM B 407

## ■ STEEL GRADES\*

TP304H; TP309S, TP310S, TP316H, TP316TI, TP317, TP321H; TP347H; 800H, 800HT

\*double certification is possible i.e. 800H/800HT

## ■ BASIC SIZE RANGE

ANSI B 36.10M

NPS	O.D. inches	PIPE SCHEDULES											MAX. LENGTH
	mm	10s	20	30	40s	60	80	100	120	140	160	XXH	
3	3,50	0,120 29,5			0,216 47,6		0,300 47,6				0,438 43,0	0,600 33,8	ft
	88,90	3,05 9,0			5,49 14,5		7,62 14,5				11,13 13,1	15,24 10,3	meters
3-1/2	4,000	0,120 29,5			0,226 47,6		0,318 47,6					0,636 44,0	ft
	101,60	3,05 9,0			5,74 14,5		8,08 14,5					16,15 13,4	meters
4	4,500	0,120 29,5			0,237 47,6	0,281	0,337 47,6		0,438 47,6		0,531 42,0	0,674 35,4	ft
	114,30	3,05 9,0			6,02 14,5	7,14	8,56 14,5		11,13 14,5		13,49 12,8	17,12 10,8	meters
5	5,563	0,134 23,0			0,258 47,6		0,375 39,7		0,500 45,9		0,625 39,4	0,750 34,4	ft
	141,30	3,40 7,0			6,55 14,5		9,53 12,1		12,70 14,0		15,88 12,0	19,05 10,5	meters
6	6,625	0,134 23,0			0,280 46,9		0,432 40,4		0,562 32,8		0,719 26,9	0,864 23,3	ft
	168,28	3,40 7,0			7,11 14,3		10,97 12,3		14,27 10,0		18,26 8,2	21,95 7,1	meters
8	8,625	0,148 33,8	0,250 27,9	0,277 23,0	0,322 27,9	0,406 22,3	0,500 19,7	0,594 17,2	0,719 15,1	0,812 13,8	0,906 13,3	0,875 13,3	ft
	219,08	3,76 10,3	6,35 8,5	7,04 7,0	8,18 8,5	10,31 6,8	12,70 6,0	15,09 5,3	18,26 4,6	20,62 4,2	23,01 4,1	22,23 4,1	meters

## ■ RENOWNED AND APPROVED

CENTRAVIS has earned a reputation of a reliable supplier approved by all the major end-users and EPC's.

CENTRAVIS participates in the most critical projects around the globe.

APPROVALS BY END-USERS AND EPC COMPANIES				
Oil & Gas Companies (End-Users)			Engineering Procurement Construction Companies	
Exxon	Chevron Phillips	Syncrude	CB&I	Technip
Shell	Marathon Petroleum	Husky	Shaw APP	Petrofac
BP	DOW Chemical	BASF	Fluor	KBR
Aramco	Lyondell Basell	Bayer	Alstom	Koch Heat Transfer LP
Valero	Tesoro	Sasol	Selas-Linde	S & B Engineers and Construction
Phillips66	CNRL	Petrobras	Bechtel	

## ■ LONG LENGTHS

Tubes for furnaces are ordered in cut lengths to fit the specific design of the unit. The designs that require 66+ft / 20+m long tubes are becoming increasingly prevalent.

CENTRAVIS has made the necessary investments to meet this market requirements. Our new extrusion press boasts a 4400MN extrusion force and is capable of producing extra-long lengths, previously unachievable in the industry.

In order to guarantee the improved mechanical, technological and corrosion properties, Centravis Production Ukraine has developed and implemented an advanced heat treatment technology in the press line. Due to proprietary process the material at extrusion exhibits improved corrosion resistance properties.

## ■ THERMAL STABILIZATION FOR IMPROVED CORROSION RESISTANCE

With grades 347/H and 321/H being chemically stabilized by Titanium and Columbium tubes and pipes made of these grades require an additional stabilization heat treatment at 850-950C (1562F-1742F).

The complexity of the stabilization process significantly limits the number of suppliers that can offer this service. CENTRAVIS brings a proven track record of supplying 321/H and 347/H material in stabilized condition to a large number of critical projects (references available upon request).

## ■ **START WITH QUALITY INGREDIENTS, END WITH RIGOROUS TESTS**

The quality philosophy of CENTRAVIS ensures that the manufacturing process is quality-centric from start to finish.

CENTRAVIS has made significant investments into the state of the art in-line NDE and laboratory equipment that allows application of the best testing practices for its products.

## ■ **SHORT LEADTIMES AND FLEXIBLE DELIVERY ARRANGEMENTS**

Thanks to the recent investments in expanding the production capacity CENTRAVIS is able to offer its customers extremely short lead-times of as little as 8 weeks.


With the effective project support and tracking system in place CENTRAVIS is a supplier of choice for both planned construction and urgent maintenance.

Delivery by air can be offered as a part of the service.

## ■ **ALWAYS WITHIN ARM'S REACH**

CENTRAVIS has a network of sales offices across the globe.

Our signature service is never interrupted so the customers may have a 24/7 access to their local representative offices.



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