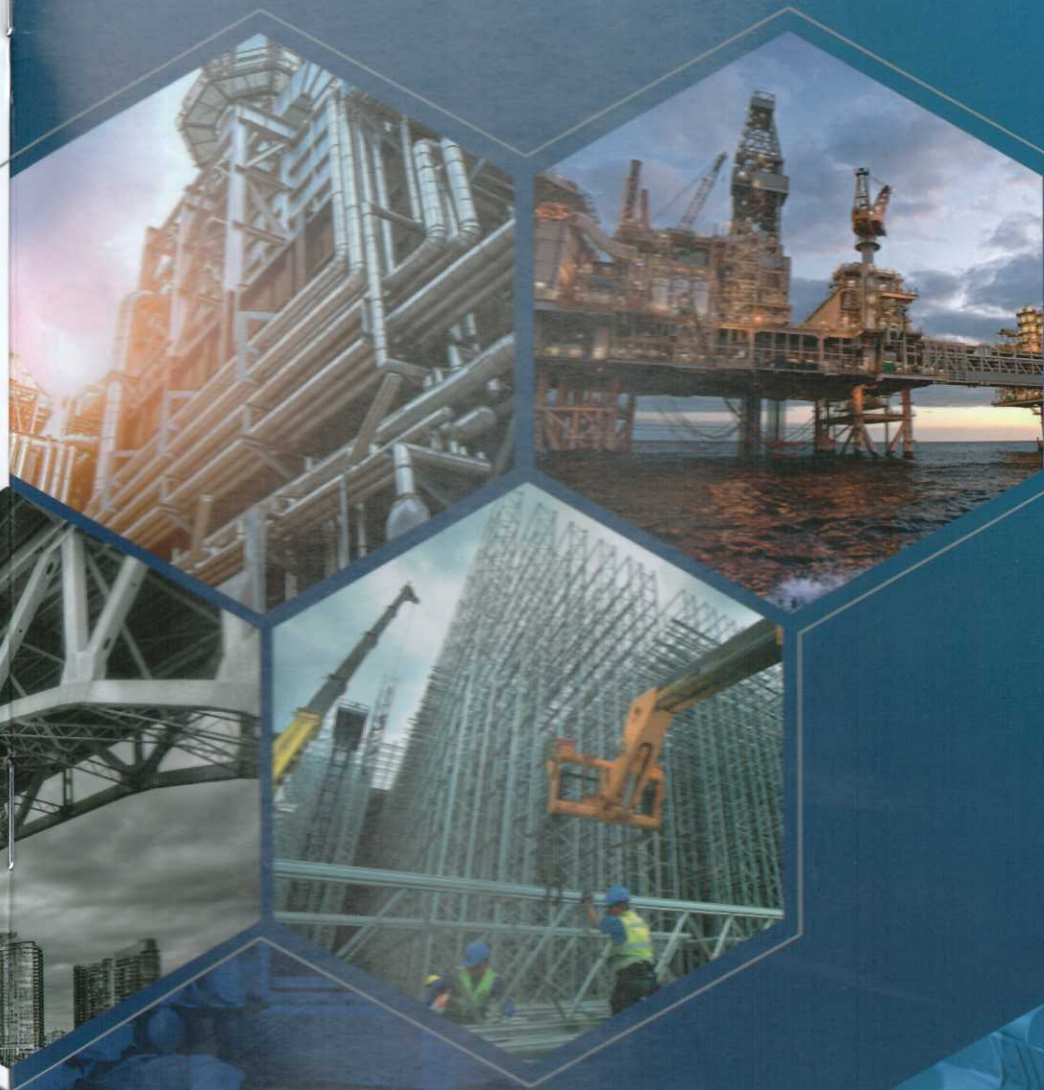


VALBRUNA GULF FZE
P.O.Box 17285, JAFZ, DUBAI - UAE
Tel: +971 4886 0200 Fax: +971 4886 0201
Email: sales@valbrunagulf.ae
www.valbrunagulf.ae

ACCIAIERIE VALBRUNA S.p.A
HEAD OFFICE AND WORKS
Viale Della Scienza 25 - 36100 Vicenza - Italy
Tel +39.0444.968211
Fax +39.0444.963836
www.valbruna-stainless-steel.com



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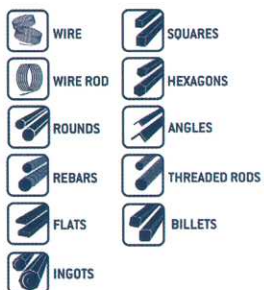


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A Profile of VALBRUNA

ACCIAIERIE VALBRUNA S.p.A., Italy with fully integrated plants in **Italy, USA, Canada**, is one of the world's largest producer of stainless steel **solid** long products.

The comprehensive range includes ingot, billet, rod in coil, round, hexagon, square, Flat, angle, channel, reinforcement and wire. The quality is maintained by adopting state of the art technology and strict production control that have made **VALBRUNA** renown for the excellence of its products.

While a tiny part only of the 600 different types of stainless steel produced can Appear in this brochure, we would like to draw the attention on **Nickel Alloys**, Duplex and **Super Duplex** Steel widely used in the oil and gas industry.

To complete **ACCIAIERIE VALBRUNA's** range of production, we must mention High Nickel Alloy and Titanium Alloy bar manufactured for the most demanding applications. Comprehensive catalogues of those products are available on request.

The mill is ISO 9001:2000, AS 9100D, ISO / TS 16949, TÜV and Det Norske Veritas approved.

The production of Stainless Steel Reinforcement bar and wire for concrete constructions, bridges, roads, jetties, tunnels etc. built in hot, humid and aggressive environment is approved by CARES (U.K.), Ontario Ministry of Transportation, Deutsches Institut für Bautechnik and Italian Ministry of Transport.

VALBRUNA GULF FZE's warehouse based in the Technology Park of the Jebel Ali Free Zone is intended to serve the Gulf Region and other Middle East Countries. With that in mind, a large selection of the most popular grades, shapes, and sizes of stainless steel bars are constantly maintained in stock.



STAINLESS STEEL

MARTENSITIC • FERRITIC • AUSTENITIC

PRECIPITATION HARDENING • DUPLEX • SUPER DUPLEX

NICKEL ALLOYS

CORROSION RESISTANT ALLOYS • HIGH TEMPERATURE ALLOYS
WELDING ALLOYS

MILL PRODUCTION PROGRAMME

Profile	Processing Routes	Tolerances	mm Sizes
Blooms and Billets	Hot rolled Forged	ASTM A484 - EN 10031 ASTM A484 - EN 10031	40 - 200 100 - 600
Ingots	Square 8 - sided 16 - sided Round		2000 - 16000 kg 3000 - 32000 kg 47000 kg 1900 - 24000 kg
Rounds	Hot rolled	ASTM A484 - EN10060	5.5 - 180
	Cold Drawn from coils	ASTM A484 - EN10278- EN20286 (k9- k12; h9h12)	3 - 32
	Cold Drawn from bars	ASTM A484 - EN10278- EN20286 (k9- k12; h9h12)	32 - 80
	Peeled	ASTM A484 - EN10278- EN20286 (k9- k12; h9h12)	16 - 180
	Peeled reeled	ASTM A484 - EN10278 (h6- h9)	16 - 180
	Centerless ground	ASTM A484 - EN20286 (k12- k13) - EN10031	2 - 200
S.S. Rebars	Forged + peeled	ASTM A484 - EN20286 (k13)- EN10031	180 - 300
	Forged Rough Turned	ASTM A484 - EN20286 (k13)- EN10031	300 - 600
Hexagon	Cold Drawn	D.M. 2008	3 - 12
	Hot rolled	BS 6744	6 - 50
Flats	Hot rolled	ASTM A484 - EN10061	8 - 72
	Cold Drawn	ASTM A484 - EN10278 (h11)	5 - 70
	Hot rolled	ASTM A484 - EN10278 (h11)	W. 10 - 100, Th 4- 60
Squares	Hot rolled	ASTM A484 - EN10058	W. 15 - 200, Th 4.5- 70
	Forged	ASTM A484 - EN10031	W. 60 - 600, Th 30- 550
	Cold Drawn	ASTM A484 - EN10278 (h11)	11 - 70
Angles	Hot rolled	ASTM A484 - EN10059	13 - 80
	Forged	ASTM A484 - EN10031	85 - 300
	Hot rolled	ASTM A484 - EN10056	20 x 20 x 3 - 100 x 100 x 12
Wire Rod	Hot rolled Coils from 1000 -1300 kg	ASTM A555 - EN10108	5 - 38
Wire	Cold Drawn Coils from 25 to 800 kg	ASTM A484 - EN10278 (h9-h11)	1 - 23
Threaded Rods	Type A2 and A4 Dia from M5 to M24 Lengths from 1 to 4 meters	Type A2 and A4 Dia from M5 to M24 Lengths from 1 to 4 meters	Metric sizes according to ISO 3506 - 1

Imperial sizes on request.

Length up to 9 metres on request – reinforcement 12 metres.

ACCIAIERIE
VALBRUNA



Comparable Specifications to VALBRUNA Production

STAINLESS STEEL

	VALBRUNA	AISI	EURO NORM	BS 970 PART 3
FERRITIC	VAL1LC	409Cb		
	X17	430	1.4016	430S15
	X17Z	430F	1.4105	
	X25	446	1.3810	
MARTENSITIC	VAL1Z	416	1.4005	416S21
	VAL1A	F6	1.4006	
	VAL1B	420	1.4024	410S21
	VAL2A	420A	1.4021	420S29
	VAL2B	420	1.4028	420S45
	VAL4/UK	431	1.4057	431S29
	CMXA	440A	1.4109	
	CMXBM	440B	1.4112	
	VAL2D		1.4116	
	VAL3		1.4122	
	CMXC/1	440C	1.4125	
	X164N		1.4418	
	VAL1B	410		410S21
	CMXB	440B	1.4112	
AUSTENITIC	AIMU	204Cu	1.4597	
	AIS	304	1.4301	304S31
	AU118Z	303	1.4305	303S31
	AISC	347	1.4543	
	AISL/FR	304L	1.4306	304S11
	AISL	304L	1.4307	
	APM/DE	316	1.4401	316S31
	APML/DE	316L	1.4404	316S11
	APLMN	316LN	1.4429	316S63
	APML/DE2	316L	1.4435	316S13
	APM/DE2	316	1.4436	316S33
	AMSL/DE	317L	1.4438	317S12
	AMS/DE	317	1.4449	317S16
	AN4	904L	1.4539	
AUSTENITIC HEAT RESISTING	AIST	321	1.4541	321S31
	V2018MV	F44	1.4547	UNS31254
	AISRU	304Cu	1.4567	394S17
	APMT/DE	316Ti	1.4571	320S31
FERRITIC AUSTENITIC (DUPLEX)	V4529		1.4529	
	APFRS/DE	309		
	APFI	310		310S31
PRECIPITATION HARDENING	APFI/SI	314		
	V274M/DE	329	1.4460	
	V225MN	F51	1.4462	
	V234N/P		1.4362	2304
	V174	630	1.4542	

ACCIAIERIE
VALBRUNA



ROUND

STOCK PROGRAMME
AT JAFZ-DUBAI**MAXIVAL®****DIN 671 - h9**
Cold Drawn
Peeled and ReeledLength
3000/3200 mm
4500/5000 mm
6000/6200 mm

dia. mm.	AISI 304/304L	AISI 316/316L	Kg/mt	dia. mm.	AISI 304/304L	AISI 316/316L	Kg/mt
3	■		0.06	18	■	■	2.00
4	■		0.10	19	■	■	2.24
5	■		0.15	20	■	■	2.47
6	■	■	0.22	22	■	■	2.98
7			0.30	24			3.54
8	■	■	0.40	25	■	■	3.87
10	■	■	0.62	28	■		4.83
12	■	■	0.89	30	■	■	5.55
12.5	■	■	0.99	32	■	■	6.21
14			1.21	35		■	7.51
15	■	■	1.39	40	■	■	9.87
16	■	■	1.58	45	■	■	12.55
				50	■	■	15.41

Other qualities and sizes on request

MAXIVAL® is a World Wide VALBRUNA Trademark
for Improved Machinability Steel**MAXIVAL®****DIN 1013 / k12**
Hot Rolled
Forged
Softened
PeeledLength
4500/5000 mm
6000/6200 mm

dia. mm.	AISI 304/304L	AISI 316/316L	Kg/mt	dia. mm.	AISI 304/304L	AISI 316/316L	Kg/mt
55	■	■	18.55	140	■	■	120.83
60	■	■	22.19	150	■	■	138.37
65	■	■	26.05	160			157.82
70	■	■	30.21	170		■	178.17
75	■	■	34.68	180	■	■	199.76
80	■	■	39.36	190			222.56
85	■	■	44.54	200	■	■	246.60
90	■	■	49.94	210	■	■	271.88
95	■	■	55.64	220	■	■	290.39
100	■	■	61.65	230	■	■	326.13
105	■	■	67.97	250	■	■	385.31
110	■	■	74.60	280	■	■	483.12
115			81.53	300	■	■	554.60
120	■	■	88.78	320		■	631.33
125	■	■	96.33	350		■	755.26
130	■	■	104.19	400		■	986.46

Other qualities and sizes on request

ACCIAIERIE
VALBRUNASTOCK PROGRAMME
AT JAFZ-DUBAI
PRECISION BAR FOR BOAT SHAFTING

ROUND

DIN 670 - h8

Bright Ground

Application:
Propeller ShaftStraightness
0,50x1000mm max.Length
3000/9000 mm

dia. mm.	AISI 316L	1.4462 (Duplex)	kg/mt
38.10			8.95
44.45			12.18
50.00	■		15.41
57.15			20.13
63.50			24.85
70.00	■		30.21
75.15	■		34.80
80.00	■		39.36
90.00	■		49.94
100.00	■		61.65
110.00	■		74.60
120.00	■		88.78
130.00	■		104.19
140.00	■		120.83
150.00	■		138.37

VALBRUNA	ASTM	BS/EN	WERK.NR.	CHEMICAL ANALYSIS %				STRENGTH	TOUGHNESS	CORROSION RESISTANCE
				C max	Cr	Ni	Others			
MARINOX 16	A 276, S31600	316S11 EN 1.4404	1.4404	0.03	16-18	10-14	Mo 2-3	•	•••••	••••
MARINOX 17	A 564, S17400		1.4542	0.07	15-17	3-5	Nb 0.15-0.45 Cu 3-5	••••	•	•
MARINOX 19	A 276, S30451		-	0.08	18-20	8-10.5	N 0.10-0.16	••	••••	••
MARINOX 22	A 276, S20910		-	0.06	20.5-23.5	11.50-13.5	1.5-3.0	••••	•••	•••••
MARINOX 25	A 276, S31803	EN 1.4462	1.4462	0.03	21-23	4.5-6.5	Mo 2.5-3.5	•••	••	•••

Sizes: 25 ÷ 150 mm dia.

Length: Standard length 6 metres (upon request up to 9 metres)

Tolerance: h8 (please note closer tolerances possible upon request)

Straightness: 0.5 x 1000 mm

Surface Finish: RA 0.8 µm max

Application: Marine shafting for fishing and navy vessels, work and pleasure boats

ACCIAIERIE
VALBRUNA

ROUND

DUPLEX / SUPER DUPLEX / SUPER AUSTENITIC / 13Cr L80 AT JAFZ-DUBAI

STAINLESS STEEL BAR for High Temperature Bolting

ASTM A - 193A 193M - 03

1.4462
(UNS S31803 Duplex)

Cold Drawn
Peeled and Reeled



2507
(UNS S32750) /
(UNS S32760)

(SUPER DUPLEX)

Tol. k12
Peeled and Reeled

6Mo / UNS S31254/ F44
(Super Austenitic)

DIN 671 - h9 / k12
Centreless Ground, Cold Drawn
Peeled & Reeled

13Cr L80
420 Mod

Tol.k12
Peeled / Forged

Dia (mm)	kg / mtr	1.4462 / F51 Duplex	1.4410 / F53 / S32750 Super Duplex	1.4501 / F55 / S32760 Super Duplex	6Mo / UNS S31254 / F44 Super Austenitic	420 MOD 13Cr L80
10	0.62				*	
13	1.05				*	
16	1.58	*			*	
16.5	1.68				*	
18	2.00				*	
20	2.47	*			*	
22	2.99				*	
25	3.87	*			*	
25.4	3.99				*	
30	5.57	*			*	
32	6.33	*			*	
36	8.02				*	
40	9.90	*			*	
45	12.52	*			*	
50	15.46	*	*		*	
50.8	15.96			*		
60	22.27	*	*		*	
63.5	24.94			*		
70	30.31			*	*	
75	34.79	*	*	*		
76.2	35.91					*
80	39.58	*	*	*	*	
90	50.10	*	*	*		
100	61.85	*	*			
101.6	63.85			*	*	
110	74.84	*			*	
120	89.06	*	*	*	*	
130	104.53	*	*	*	*	
139.7	120.71					*
140	121.23	*	*	*	*	
146.05	131.93					*
150	139.16	*	*		*	
152.4	143.65			*		*
160	158.34	*	*	*	*	
165.1	168.59					*
170	178.75	*	*	*		
180	200.39	*	*	*		
190	223.28			*		
200	247.40	*				
203.20	255.38	*	*	*		
219.964	299.26					*
220	299.35	*	*	*		
225	313.12	*				
228.6	323.22	*	*	*		
250	386.56	*			*	
254	399.03			*		
280	484.90	*	*	*		
300	556.65	*			*	
304.8	574.61			*		
320	633.34			*		

Chemical Analysis

	B8	B8C	B8M	B8T
UNS Designation	30400	34700	31600	32100
Carbon	<0.08	<0.08	<0.08	<0.08
Nickel	8.0 - 11.0	9.0 - 12.0	10.0 - 14.0	9.0 - 12.0
Chromium	18.0 - 20.0	17.0 - 19.0	16.0 - 18.0	17.0 - 19.0
Molybdenum			2.0 - 3.0	
Columbium		10 x C min.		
Titanium				5 x C min.

Mechanical Requirements as per Spec.

	B8	B8C	B8M	B8T
Class 1 All sizes	■	■	■	■
Class 2 <=3/4"	■	■	■	■
Class 2 >=3/4" <=1"	■	■	■	■
Class 2 >=1" <=1.1/4"	■	■	■	■
Class 2 >=1.1/4" <=1.1/2"	■	■	■	■
Class 2 <=4"				



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NICKEL ALLOYS STAINLESS ALLOYS

- COLD DRAWN
- PEELED
- SOLUTION ANNEALED
- AGED



Length
4000/6000 mm



Dia mm	NICKEL ALLOYS				SPECIAL ALLOYS	
	Alloy 20	Alloy 660	Alloy 625	Alloy 825	NTR 50 / XM19	NTR 60
10						
12.7						
13						
16						
16.5						
18						
19.05						
20						
20.3						
22						
22.23						
25						
25.4						
30						
32						
36						
38.1						
40						
41.27						
45						
50						
50.8						
55						
60						
63.5						
65						
70						
75						
76.2						
80						
90						
100						
101.6						
110						
115						
120						
130						
139.7						
140						
146.05						
150						
152.4						
160						
165.1						
170						
180						

NICKEL ALLOYS FOR SPECIAL APPLICATIONS

The development of new technologies and industries often demands materials with enhanced performance and resistance to aggressive environments. These demands have driven the development of highly alloyed iron, nickel and cobalt based. By varying the combination of different chemical elements a wide range of useful properties can be achieved. These include exceptional mechanical properties, high creep and rupture strength, enhanced toughness, better metallurgical stability, improved fatigue and thermal shock properties, superior corrosion resistance across a broad spectrum of temperatures while maintaining good fabricability. Nickel alloys can be easily cold worked to enhance mechanical properties. Heat treatments can also raise mechanical properties in some nickel alloys and can be used to improve corrosion resistance.

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STOCK PROGRAMME
AT JAFZ-DUBAI

DIN 1017

Hot Rolled
Softened
PickledLength
4500/5000 mm
6000/6200 mmOther
qualities and
sizes on requestAll sizes of this
table are
currently in
production
and stocked at
the Mill

size mm.	AISI 304/304L	AISI 316/316L	Kg/mt	size mm.	AISI 304/304L	AISI 316/316L	Kg/mt
15 x 3			0.35	35 x 25			6.87
15 x 5			0.59	35 x 30			8.24
15 x 6			0.71	40 x 3	■		0.95
15 x 8			0.95	40 x 4	■		1.26
15 x 10			1.18	40 x 5	■		1.58
15 x 12			1.42	40 x 6	■		1.90
20 x 3	■		0.47	40 x 8	■		2.53
20 x 4			0.63	40 x 10	■		3.16
20 x 5	■		0.79	40 x 12			3.79
20 x 6			0.95	40 x 15			4.71
20 x 8			1.26	40 x 20			6.28
20 x 10			1.57	40 x 25			7.85
20 x 12			1.88	40 x 30			9.42
20 x 15			2.36	45 x 4			1.42
25 x 3	■		0.59	45 x 5			1.77
25 x 4	■		0.79	45 x 6			2.12
25 x 5	■		0.99	45 x 8			2.83
25 x 6	■	■	1.18	45 x 10			3.53
25 x 8			1.58	45 x 12			4.24
25 x 10	■		1.96	45 x 15			5.30
25 x 12			2.36	45 x 20			7.06
25 x 15			2.94	50 x 3	■		1.18
25 x 20			3.92	50 x 4	■		1.57
30 x 3	■	■	0.71	50 x 5	■		1.98
30 x 4	■		0.94	50 x 6	■		2.37
30 x 5	■	■	1.18	50 x 8	■		3.16
30 x 6	■	■	1.42	50 x 10	■		3.95
30 x 8	■	■	1.90	50 x 12	■	■	4.74
30 x 10	■	■	2.37	50 x 15			5.89
30 x 12			2.82	50 x 20			7.85
30 x 15			3.54	50 x 25		■	9.81
30 x 20			4.71	50 x 30			11.78
30 x 25			5.89	50 x 40			15.70
35 x 4			1.10	60 x 4			18.84
35 x 5			1.37	60 x 5			2.37
35 x 6			1.65	60 x 6			2.84
35 x 8			2.20	60 x 8			3.79
35 x 10			2.75	60 x 10		■	4.74
35 x 12			3.30	60 x 12	■	■	5.69
35 x 15			4.12	60 x 15			7.07
35 x 20			5.50	60 x 20			9.42

STOCK PROGRAMME
AT JAFZ-DUBAI

size mm.	AISI 304/304L	AISI 316/316L	Kg/mt	size mm.	AISI 304/304L	AISI 316/316L	Kg/mt
60 x 25			11.78	100 x 5	■	■	3.93
60 x 30			14.13	100 x 6	■	■	4.71
60 x 40			18.84	100 x 8	■	■	6.28
60 x 50			23.55	100 x 10			7.85
65 x 12			6.12	100 x 12	■		9.42
70 x 5			2.75	100 x 15			11.78
70 x 6			3.00	100 x 20			15.70
70 x 8			4.40	100 x 25			19.63
70 x 10			5.50	100 x 30			23.55
70 x 12			6.59	100 x 40			31.40
70 x 15	■		8.24	100 x 50			39.25
70 x 20			11.00	110 x 8			6.91
70 x 25			13.74	110 x 10			8.64
70 x 30			16.49	110 x 12			10.37
70 x 40			21.98	110 x 20			17.27
70 x 50			27.48	120 x 6			5.65
75 x 6	■	■	3.53	120 x 10	■		9.42
75 x 8	■	■	4.71	120 x 12	■		11.30
75 x 10	■	■	5.89	120 x 15			14.13
75 x 15			8.83	120 x 20			18.84
80 x 5			3.16	120 x 25			23.55
80 x 6			3.79	130 x 10			10.21
80 x 8			5.06	130 x 15			15.31
80 x 10			6.32	130 x 20			20.41
80 x 12			7.00	140 x 10			10.99
80 x 15			9.42	140 x 20			21.98
80 x 20			12.56	150 x 6			7.07
80 x 25			15.70	150 x 8			9.42
80 x 30			18.84	150 x 10	■		11.78
80 x 40			25.12	150 x 12			14.13
80 x 50			31.40	150 x 15			17.66
80 x 60			37.68	150 x 20			23.55
90 x 8			5.65	150 x 25			29.44
90 x 10			7.07	150 x 30			35.33
90 x 12			8.48	200 x 10			15.70
90 x 15			10.60	200 x 15			23.55
90 x 20			14.13	FLAT DIN 174 h11 Cold Drawn			
90 x 25			17.66	size mm.		AISI 304L	
90 x 30			21.20	10 x 5		■	
90 x 40			28.26	10 x 3		■	
90 x 50			35.33	Length 4000/4200 mm			



ANGLE

STOCK PROGRAMME AT JAFZ-DUBAI

DIN 1028
Hot Rolled,
Softened
Pickled



Length
6000 / 6500 mm

All imperial sizes
available at the Mill

Type
321-316 LMO - 316Ti
1.4462, 1.4436, 1.4362
available on request



size mm.	AISI 304L	AISI 316L	Kg/mt
20 x 20 x 3			0.88
25 x 25 x 3	■	■	1.12
25 x 25 x 4	■	■	1.44
30 x 30 x 3	■	■	1.34
30 x 30 x 4	■	■	1.76
35 x 35 x 4			2.07
40 x 40 x 4	■	■	2.39
40 x 40 x 5	■	■	2.94
45 x 45 x 5			3.38
50 x 50 x 3			2.28
50 x 50 x 4	■	■	3.01
50 x 50 x 5	■	■	3.77
50 x 50 x 6			4.47
60 x 60 x 6	■	■	5.42
70 x 70 x 7	■	■	7.38
75 x 75 x 6	■	■	6.78
75 x 75 x 8	■	■	8.92
75 x 75 x 10	■	■	10.99
80 x 80 x 8	■	■	9.55
100 x 100 x 6	■	■	9.14
100 x 100 x 8	■	■	12.70
100 x 100 x 10	■	■	14.92
150 x 150 x 10			22.77

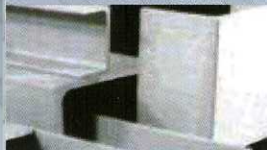
The weights in this booklet are intended for theoretical calculation only.
Valbruna cannot accept responsibility for any errors or inaccuracies

U CHANNEL



Hot Rolled,
Welded,
Pickled

Length
6000/6500 mm



size mm.	AISI 304L	AISI 316L	Kg/mt
40 x 20 x 4	■		2.32
50 x 25 x 5	■		3.61
60 x 30 x 3	■		2.77
80 x 40 x 4	■		4.93
80 x 40 x 5	■		6.05
100 x 50 x 5	■	■	7.69
100 x 50 x 6	■	■	9.11
120 x 60 x 6	■		11.05
150 x 75 x 6			13.99

Other qualities on request

STOCK PROGRAMME AT JAFZ-DUBAI

SQUARE

DIN 178 - h11

Cold Drawn



Length
3000/3200 mm



size mm.	AISI 304/304L	AISI 316/316L	Kg/mt	size mm.	AISI 304/304L	AISI 316/316L	Kg/mt
4			0.13	20			3.14
5			0.10	22			3.80
6	■	■	0.28	7/8"	■	■	3.88
1/4"			0.32	25			4.91
8			0.50	1"	■	■	5.06
10			0.79	30			7.07
12			1.13	1 1/4"	■	■	7.92
1/2"	■	■	1.27	35			9.62
14			1.54	1 1/2"	■	■	11.07
15			1.77	40			12.56
5/8"	■	■	1.98	45			15.90
16			2.01	50			19.65
3/4"	■	■	2.84	2"	■	■	20.24
				60			28.26

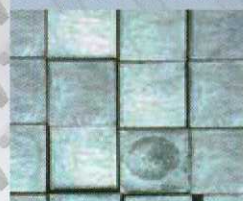
Other qualities and sizes on request

DIN 1013 / k12

Hot Rolled
Softened
Pickled



Length
4500/5000 mm



size mm.	AISI 304/304L	AISI 316/316L	Kg/mt	size mm.	AISI 304/304L	AISI 316/316L	Kg/mt
8			0.50	32			8.03
10			0.79	35			9.62
12			1.13	40			12.56
14			1.54	45			15.90
15			1.77	50			19.65
16			2.01	55		■	23.75
18			2.54	60			28.26
20			3.14	70			30.47
22			3.80	75		■	44.16
25			4.91	80			50.24
30			7.07	100			78.50

Other qualities and sizes on request



MAXIVAL®

DIN 176 - h11

Cold Drawn



Length
3000/3200 mm

mm A/F	AISI 304/304L	AISI 316/316L	Kg/mt	mm A/F	AISI 304/304L	AISI 316/316L	Kg/mt
5.00			0.17	24.00			3.92
1/4"	■	■	0.24	1"	■	■	4.38
8.00			0.44	27.00		■	4.98
10.00			0.68	30.00		■	6.10
11.00			0.82	1.1/4"	■	■	6.89
12.00			0.97	32.00	■	■	6.96
1/2"	■	■	1.11	36.00		■	8.76
13.00		■	1.15	1.1/2"	■	■	9.84
14.00		■	1.32	41.00		■	11.38
15.00			1.53	46.00	■	■	12.00
5/8"	■	■	1.77	50.00			16.94
17.00		■	1.96	2"	■	■	17.53
3/4"	■	■	2.45	55.00			20.57
19.00			2.50	60.00	■	■	24.47
22.00		■	3.27	65.00	■	■	28.72
7/8"	■	■	3.35	70.00	■	■	33.31

Other qualities and sizes on request

MAXIVAL® is a World Wide Valbruna Trademark
for Improved Machinability Steel

DIN 975

Gr. A4 / A2
CLASS 70



COLD DRAWN,
Tol. G 6

Length
1000 / 2000 mm

dia. mm.	GRADE A2	GRADE A4	Kg/mt
5	■	■	
6	■	■	0.157
8	■	■	0.314
10	■	■	0.493
12	■	■	0.707
16	■	■	1.302
18	■	■	1.620
20	■	■	2.063
22	■	■	2.530
24	■	■	3.000

SQUARE & FLAT

Cold Drawn - h11

for Instruments and
Sub-sea Valves
Released to NACE
MR-01-75 ISO 15156-3



Standard	Square	Flat	Length mm	Finish	NACE*
BS316S11	7/8"	1.1/4"x1"	3000/3200	Cold Drawn h11	yes
BS316S11	1.1/8"	1.1/2"x1"	3000/3200	Cold Drawn h11	yes
BS316S11	1.1/4"	2.1/2"x1.1/4"	3000/3200	Cold Drawn h11	yes
BS316S11	1.1/2"	1.1/2"x1.1/4"	3000/3200	Cold Drawn h11	yes
BS316S11	2"	2.1/2"x1.1/4"	3000/3200	Cold Drawn h11	yes
BS316S11		3"x1.1/4"	3000/3200	Cold Drawn h11	yes
BS316S11		3.1/2"x1.1/4"	3000/3200	Cold Drawn h11	yes
BS316S11		3.1/2"x1.1/2"	3000/3200	Cold Drawn h11	yes

* NACE: MR-01-75 ISO 15156 - 3



Other lengths are available upon request



REINFORCEMENT

STOCK PROGRAMME AT JAFZ-DUBAI

REVAL®

BS 6744 - ASTM A955

Hot Rolled
Cold Drawn



Length
12000 mm
Coil 800/1000 kg



Dia mm	304L (1.4307)	316L (1.4404)	316LN (1.4429)	316S33 (1.4436)	318S13 (1.4462)	S32304 (1.4362)	Kg./ Mtr.
3	Coil & Bar	Coil & Bar	Coil & Bar	Coil & Bar	Coil & Bar	Coil & Bar	0.060
4	Coil & Bar	Coil & Bar	Coil & Bar	Coil & Bar	Coil & Bar	Coil & Bar	0.100
5	Coil & Bar	Coil & Bar	Coil & Bar	Coil & Bar	Coil & Bar	Coil & Bar	0.150
6	Coil & Bar	Coil & Bar	Coil & Bar	Coil & Bar	Coil & Bar	Coil & Bar	0.230
7	Coil & Bar	Coil & Bar	Coil & Bar	Coil & Bar	Coil & Bar	Coil & Bar	0.300
8	Coil & Bar	Coil & Bar	Coil & Bar	Coil & Bar	Coil & Bar	Coil & Bar	0.400
10	Coil & Bar	Coil & Bar	Coil & Bar	Coil & Bar	Coil & Bar	Coil & Bar	0.630
12	Coil & Bar	Coil & Bar	Coil & Bar	Coil & Bar	Coil & Bar	Coil & Bar	0.910
14	Coil & Bar	Coil & Bar	Coil & Bar	Coil & Bar	Coil & Bar	Coil & Bar	1.230
16	Coil & Bar	Coil & Bar	Coil & Bar	Coil & Bar	Coil & Bar	Coil & Bar	1.610
20	Bar	Bar	Bar	Bar	Bar	Bar	2.510
25	Bar	Bar	Bar	Bar	Bar	Bar	3.930
30	Bar	Bar	Bar	Bar	Bar	Bar	5.513
32	Bar	Bar	Bar	Bar	Bar	Bar	6.430
35	Bar	Bar	Bar	Bar	Bar	Bar	7.504
40	Bar	Bar	Bar	Bar	Bar	Bar	10.050
50	Bar	Bar	Bar	Bar	Bar	Bar	15.710

REVAL® is a VALBRUNA's Trademark
for Stainless Steel Reinforcement

TYING WIRE

Cold Drawn h9



Dia mm	316/316L	304/304L
0.8	.	.
1.0	.	.
1.2	.	.
1.5	.	.
1.8	.	.
2.0	.	.

Other Grades and sizes are available on request
Weight of Coil 20-30 Kg. (on pallet)

STOCK PROGRAMME AT JAFZ-DUBAI

WELDED / SEAMLESS PIPES

WLD PIPES

304L / 316L



ASTM A312

Length
6000mm

Size in inch	SCH 10S	SCH 40S
1/2	.	.
3/4	.	.
1	.	.
1 1/4	.	.
1 1/2	.	.
2	.	.
2 1/2	.	.
3	.	.
4	.	.
5	.	.
6	.	.
8	.	.
10	.	.

SMLS PIPES

304L / 316L



**ASTM A312
NACE 0175**

Length
6000mm

Size in inch	SCH 10S	SCH 40S	SCH 80S
1/2	.	.	.
3/4	.	.	.
1	.	.	.
1 1/4	.	.	.
1 1/2	.	.	.
2	.	.	.
2 1/2	.	.	.
3	.	.	.
4	.	.	.
5	.	.	.
6	.	.	.
8	.	.	.



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Valbruna Grade	Commercial Name	Description
AN2	Alloy 825	Alloy 825 is a Ti-stabilized fully austenitic Ni-Fe-Cr alloy with Mo and Cu additions. It is characterized by excellent resistance to stress-corrosion cracking, good resistance to pitting, crevice corrosion and to oxidizing and reducing acids. Its mechanical properties are good from cryogenic to moderately high temperature, but at temperature above 540°C this alloy shows a lower ductility and impact strength. It is not recommended for high-temp services where creep rupture resistance is requested.
AN4	Alloy 904L	Alloy 904L is a superaustenitic Stainless Steel with high Mo, Cu additions and extremely low carbon content. This alloy provides high resistance to pitting, crevice corrosion, stress-corrosion cracking and inter-crystalline corrosion, excellent resistance to moderately aggressive reducing acids such as sulphuric and phosphoric acids, as well as to many chloride-containing media. It has vastly superior properties to those of conventional acid-resistant SS.
AN5	Alloy 660 Alloy A286	Alloy 660/A286 is a precipitation hardenable superalloy. It is a Fe-Ni-Cr alloy with additions of Mo and Ti. In aged condition this alloy shows high mechanical properties and good creep-rupture, corrosion resistance to oxidation & temperatures up to 700°C. In accordance to different solution treat, temperatures and the quenching, Alloy 660/A286 could be classified in different types or classes provided by the specifications: for instance, solution treatment at 980°C gives the highest creep-rupture strength in precipitation-hardened material, solution treatment at 900°C instead results in improvement ductility and room-temperature tensile strength.
AV20	Alloy 20	Alloy 20 is a low carbon, Nb stabilized austenitic Ni-Fe-Cr alloy with addition of Cu and Mo. It is characterized by an excellent resistance to acid and other aggressive media, to pitting, to crevice corrosion, to intergranular corrosion and to stress corrosion.
AVC276	Alloy C276	Alloy C276 is a Ni-Cr-Mo alloy with low Carbon, W and Si. This alloy is characterized by high corrosion resistance in a wide range of media, by resistance to pitting, crevice corrosion and stress corrosion cracking.
AV718CRV AV718HTV	Alloy 718	Alloy 718 is a precipitation-hardening austenitic Ni-base superalloy. High strength and corrosion resistance (at high and low temperature) are its stand out features. It is also characterized by good oxidation resistance up to 1000°C, good mechanical properties at temperature below 0°C and good resistance to stress-corrosion cracking and pitting.
AV925	Alloy 925	Alloy 925 is an age-hardenable Ni-Fe-Cr alloy with Mo, Cu, Ti and Al additions, characterized by high strength (up to 540°C) and corrosion resistance to pitting, crevice corrosion and stress-corrosion-cracking.
EG1	Alloy 400	Alloy 400 is a Ni-Cu alloy characterized by corrosion resistance in marine and chemical applications (hydrofluoric acid, non-oxidizing dilute acids, alkalis and salt solutions, organic acids, dry gases such as chlorine and to hydrogen chloride), high strength and toughness from temperatures below 0° up to 550°C. The mechanical properties can be improved only by cold working.
EG2	Alloy K-500	Alloy K-500 is a precipitation hardening alloy with Al and Ti additions. This alloy is characterized by the same excellent corrosion resistance as alloy 400 but with higher mechanical properties that are maintained for a wide range of temperature (from -200°C up to 650°C). It has a greater tendency toward stress-corrosion cracking in some environments than alloy 400 and in the aged condition it has low magnetic permeability to temperature below to -120°C.
GL3	Alloy 625	Alloy 625 is a low-carbon Ni-Cr-Mo alloy with Nb addition. This alloy is characterized by good mechanical properties (due to effect of Mo and Nb in the matrix structure), excellent resistance to pitting and crevice corrosion, high resistance to stress-corrosion. Also it resists in a wide range of organic and mineral acids and at high temperature as well to oxidation and to carburization. In accordance to heat treat, temperatures it is classified as grade 1 (annealed) or grade 2 (solution ann.). Grade 2 is recommended for applications where good resistance to creep or rupture up to 1000°C is requested. Grade 1 is recommended for applications up to 840°C when finer grain size and high mechanical properties are requested.



Valbruna is a Customer focused, solution – driven organization which combines international expertise with local services. We are committed to partnership with customers to help to streamline business chains & achieve imaginative ways of working together.

Valbruna has been closely involved in ample number of projects in the region with variety of innovative solutions to a broad range of markets.

Valbruna not only covers the highlighted high profile projects, but minute of our small clientele also been addressed with positive notes.

We have successfully been part of high niche projects in the region to small private projects, however to name some of our major projects in the region are:

• Doha Metro	Qatar
• Sheikh Jaber Al-Ahmad Al-Sabah Causeway	Kuwait
• Jebel Ali Sewage Treatment Plant	UAE
• Yas Island	UAE
• Khalifa Port – Abu Dhabi	UAE
• Qatar National Museum	Qatar
• Lusail Development	Qatar
• New Doha Port	Qatar
• Business Bay	UAE
• Ras Laffan Port Expansion	Qatar
• Manama Bridge City	Bahrain
• Pearl Qatar	Qatar
• Dubai Maritime City	UAE
• Jumeirah Anchor Marina	UAE
• Sheikh Zayed Bridge – Abu Dhabi	UAE
• New Guest Complex	Oman
• Jamal Abdul Nasser Street	Kuwait
• Jebel Ali Lihbab Highway	UAE
• Oman Botanical Garden	Oman

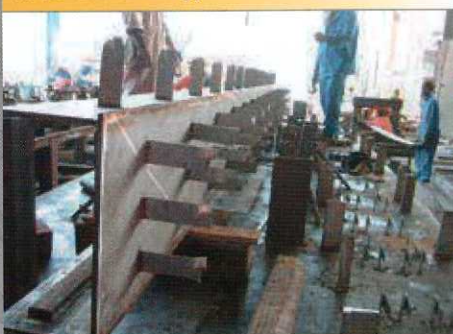
Our committed service and support has been offered not only to the supply of material but also for the below identified areas:

- Sourcing of Materials.(within stainless steel family)
- Engineering support, Preparation of shop drawings for the fabrication jobs
- Cut & Bend service for Stainless Steel rebar's, Preparation of Bar Bending Schedules.
- Supply of Dowels / Pins for the construction industry.
- Supply & Fabrication of any Stainless Steel components in Projects
- Supply of Marine furniture (Ladders, Mooring rings, Handrails etc)
- Supply and fabrication of items for the precast industry.

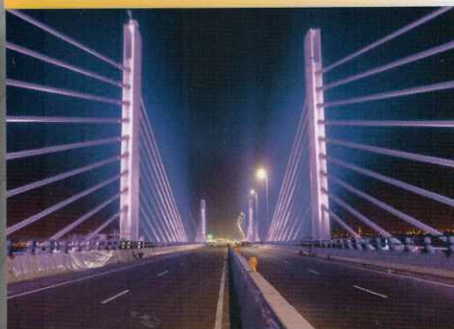


VALBRUNA GULF PROJECT'S DIVISION

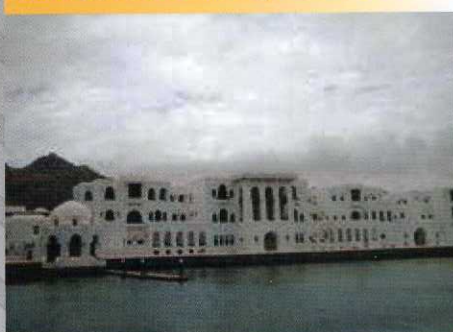
Maritime City, Dubai



Sabah Al Ahmad Corridor Bridge, Qatar



New Guest Complex, Muscat-Oman



Jumeirah Anchor Marine, Dubai



The Pearl, Qatar



Khalifa Port, Abu Dhabi



STOCK PROGRAMME AT JAFZ-DUBAI

TECHNICAL TABLES

DIAMETER	COLD DRAWN - PEELED & REELED - BRIGHT GROUND							
	- 0 / plus tol.		+ 0 / minus tol.			+ 0 / minus tol.		
	ISO K13	ISO K12	ISO h11	ISO h10	ISO h9	ISO h8	ISO h7	ISO h6
mm	mm	mm	mm	mm	mm	mm	mm	mm
1 < 3	-	-	0.060	0.040	0.025	0.014	0.010	0.006
3 < 6	-	-	0.075	0.048	0.030	0.018	0.012	0.008
6 < 10	-	0.150	0.090	0.058	0.036	0.022	0.015	0.009
10 < 18	-	0.180	0.110	0.070	0.043	0.027	0.018	0.011
18 < 30	0.330	0.210	0.130	0.084	0.052	0.033	0.021	0.013
30 < 50	0.390	0.250	0.160	0.100	0.062	0.039	0.025	0.016
50 < 80	0.460	0.300	0.190	0.120	0.074	0.046	0.030	0.019
80 < 120	0.540	0.350	0.220	0.140	0.087	0.054	0.035	0.022
120 < 180	0.630	0.400	0.250	0.160	0.100	0.063	-	-
180 < 250	0.720	0.480	0.290	0.185	0.115	0.072	-	-
250 < 275	0.810	0.520	0.320	0.210	0.130	0.081	-	-

HOT ROLLED FLAT

DIN 1017

		PERMISSIBLE VARIATION IN MM THICK					
		5 - 20 mm		22 - 40 mm		50 - 60 mm	
		Width	Thick	Width	Thick	Width	Thick
Width	10 - 35mm	+/- 0.75mm	+/- 0.5mm	+/- 0.75mm	+/- 1.0mm	+/- 0.75mm	+/- 1.5mm
	38 - 75mm	+/- 1.0mm	+/- 0.5mm	+/- 1.0mm	+/- 1.0mm	+/- 1.0mm	+/- 1.5mm
	80 - 100mm	+/- 1.5mm	+/- 0.5mm	+/- 1.5mm	+/- 1.0mm	+/- 1.5mm	+/- 1.5mm
	110 - 120mm	+/- 2.0mm	+/- 0.5mm	+/- 2.0mm	+/- 1.0mm	+/- 2.0mm	+/- 1.5mm
	130 - 150mm	+/- 2.5mm	+/- 0.5mm	+/- 2.5mm	+/- 1.0mm	+/- 2.5mm	+/- 1.5mm

HOT ROLLED ANGLE

DIN 1028

NOMINAL SIZE	PERMISSIBLE VARIATION IN MM	
	Width	Thick
20 to 50mm	+/- 1.0mm	+/- 0.5 mm
50 to 100mm	+/- 1.5mm	+/- 0.75 mm

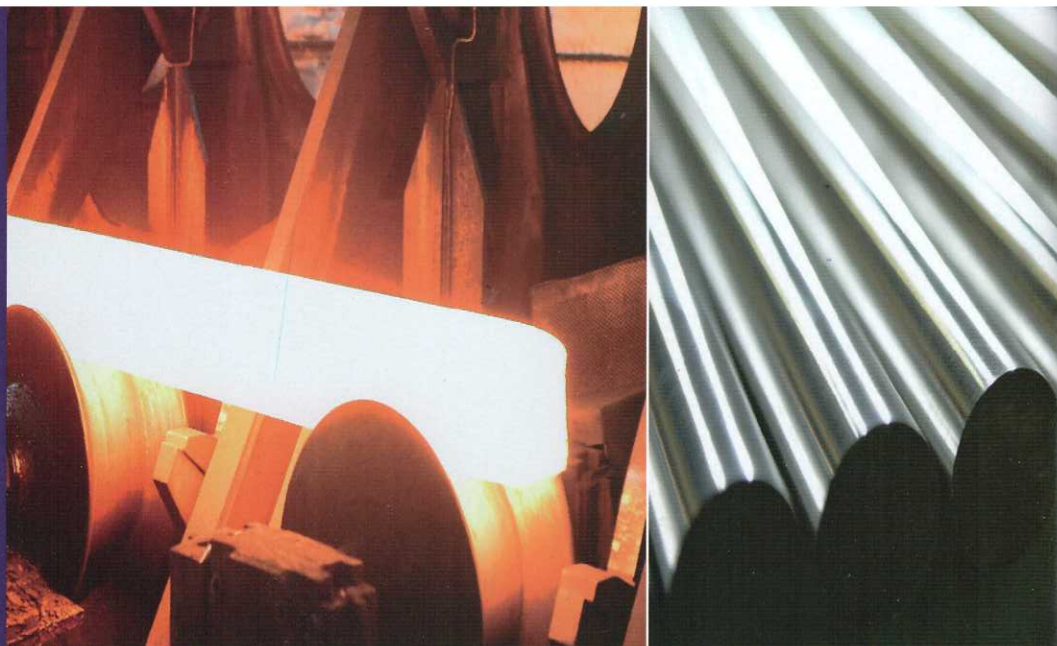
SURFACE FINISH

AA - CLA - RSM	1	2	4	8	16	32	63	125	250
RA	0.025	0.05	0.1	0.2	0.4	0.8	1.6	3.2	6.3
	N1	N2	N3	N4	N5	N6	N7	N8	N9
	▼▼▼▼			▼▼▼			▼▼		

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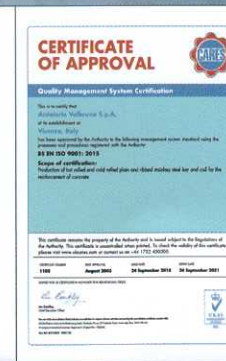
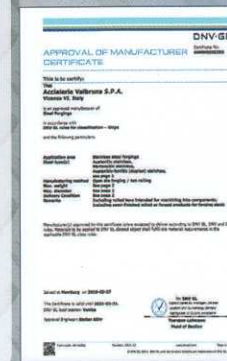
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APPROVAL CERTIFICATE

The company's quality assurance system is certified to ISO 9001, AS 9100 and ISO/TS 16949. The product quality is assured by full conformity with a range of European Standards for special steels (eg. UNI - EN 10088), and with the strictest international standards certified by TUV, Lloyds Register and Det Norske Veritas.

Non destructive testings are carried out by UT, ET, MT, VT methods and the personnel is qualified and certified according to ISO9712.



We are also registered, further certified by SABER, KSA and verified by ADNOC's in-Country Valuation.



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VALBRUNA COMMERCIAL AND TRADING DIVISION

Valbruna Gulf aiming to achieve more market demands on various industries i.e. Petrochemicals, Oil & Gas, Marine..... etc.

Since '**Valbruna**' specialist on long products production and stocking, we strongly believes that commercial and trading division will support our projection on covering clients requirements.

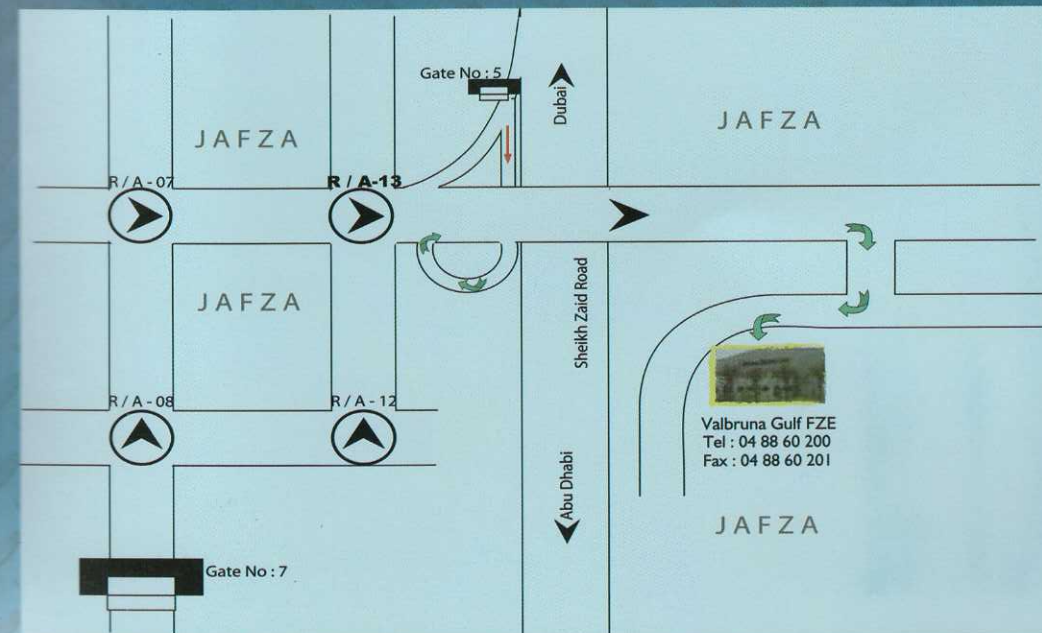
Therefore we introduced this division activity to source and supply the following products program

- 1) Stainless Steel Pipe / Tubes, Welded & Seamless, Mill Finish and polished
- 2) Stainless Steel Plate, Sheet, Mill Finish, 2B, BA, HL, Satin, Mirror, Super Mirror, Etching & Shakier
- 3) API Products
- 4) Tool Steel products (cold work, hot work, plastic work & Stainless Steel tool steel).
- 5) Engineering Steel, Low Carbon, Carbon steel, High tensile, Abrasion steel, High speed steel, Spring steel..... etc.

Valbruna Gulf chain of supply guarantee high quality materials as usual as per international standard supported with the necessary technical and commercial documents.



LOCATION MAP



VALBRUNA GULF FZE

P.O.Box 17285, JAFZ, Dubai – U.A.E.
Tel +971 4 886 0200 Fax +971 4 886 0201
Email sales@valbrunagulf.ae
www.valbrunagulf.ae