

HIGH INTEGRITY BOLTING



Beck Crawford

Tightening up on Performance

KEY NUMBERS



Over
600
people

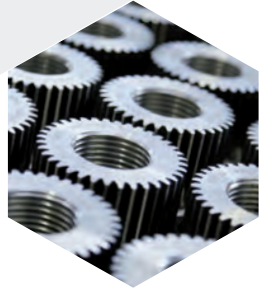
10
industrial
sites

Over
100,000 m²
of production
and storage space

Over
30
million euros
of stock

More than
3,000
clients
in the world

An industrial group
that **produces, stocks and distributes**
all over the world



Beck Industries

The Beck Industries group is currently amongst the **world leaders in high integrity bolting production** for the energy, oil and mechanical industry sectors.

Almost a century after it was created, Beck Industries is still a family business, faithful both to its will for industrial control, and to its **innovating and service culture**.

Each Beck Industries site produces, stocks and distributes its own products in close proximity to its clients. This organisation, which is ingrained into our DNA, guarantees the quality and availability of many references, whatever the circumstances.

High integrity bolting offer

◆ STANDARDISED BOLTING

We have the capacity to produce a wide range of products meeting the ASTM, DIN, ASME, RCCM, ANSI, AFNOR or EN standards: threaded rods, nuts, screws, pins, caps, couplings, etc. and in a wide range of materials: carbon steels, stainless steel, nickel alloys, duplex and super-duplex, non ferrous, etc.

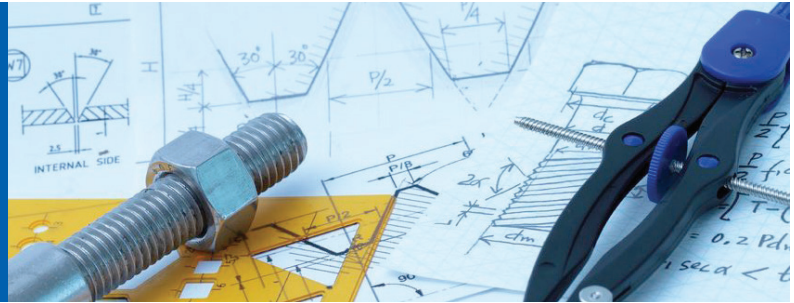
◆ CUSTOM BOLTING

We can produce any type of part, including tie rods, couplings and specialised washers according to your drawings and specifications.

◆ TIGHTENING TOOLS

Beck industrie's Beck Tight brand designs and produces hydraulic or mechanical extension tightening solutions: nuts and stretchers.

Beck Crawford Singapore Pte Ltd



The organization was first established in 1970 as Crawford Singapore Pte Ltd. With its goodwill and reputation built from close to 50 years of experience and commitment in the highly competitive market, Crawford Singapore Pte Ltd has gained the respect and support of the many major names in the Oil, Gas, Petrochemical, Construction and Shipbuilding Industries.

In late 2015, Crawford Singapore Pte Ltd was acquired by Beck Industries International, one of the largest manufacturer in the world of bolting.

Beck Industries International established in 1918, through the original factory Beck Crespel in France, it has evolved into a leading and globally respected manufacturer of Stud bolts, Nuts and Special Fasteners for the use in the Oil, Gas, Petrochemical, Power Generation and Nuclear industries.

To reflect the new era, as a part of Beck Industries International Group, the name was changed to Beck Crawford Singapore Pte Ltd.

The group's presence can now be felt over 3 continents, spreading across 6 countries with 10 sites operating across the world.

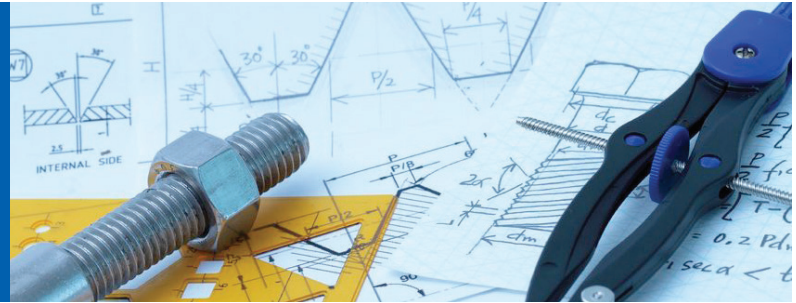
Beck Crawford Singapore Pte Ltd is the one and only subsidiary of the Beck Industries International in the Asia Pacific region. It will be responsible for all business operations of the group in within the region and strives to deliver the group's commitment in servicing and supporting global clients through a regional hub.



It is with pride that Beck Crawford Singapore Pte Ltd's quick response when meeting customers' requirements and the ability in meeting the exacting standards of quality and service demanded by diverse customer base is widely recognized.

Beck Crawford Inventory

1

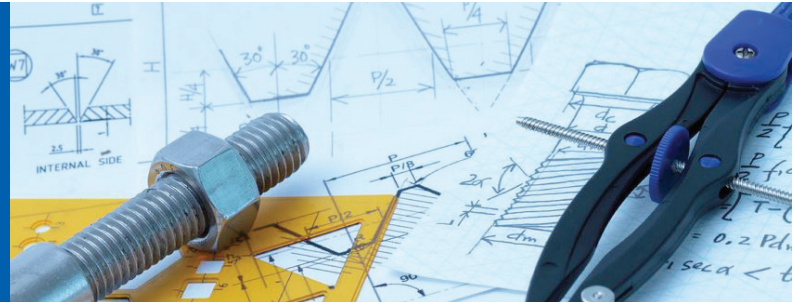


► Alloy & Carbon Steel

ASTM	AISI	BS	Werstoff	UNS	EU	DIN
A193 B5	501	3606-625	1,7362		X15CrMo5-1	12CRM0-19-5
A193 B6	410	410S21	1,4006			(G-)X10CR13
A193 B7	4140/4142	708M40	1,7225	G41400/G41420	42CrMo4	42CrMo4
A193 B7M	4140/4142	708M40	1,7225	G41400/G41420	42CrMo4	42CrMo4
A193 B16	410	410S21	1,4006			(G-)X10CR13
A307 GR.A/B			1,7711	K14072	40CrMoV4-6	40CrMoV4-6
A320 L7	4140/4142	708M40	1,7225	G41400/G41420	42CrMo4	42CrMo4
A320 L7M	4140/4142	708M40	1,7225	G41400/G41420	42CrMo4	42CrMo4
A320 L43	4340		1,6565	G43400	40CrNiMo7-3	
F3125 A325 - 1						
F3125 A325 - 3						
F3125 A490 - 1						
F3125 A490 - 3						

Beck Crawford Inventory

2

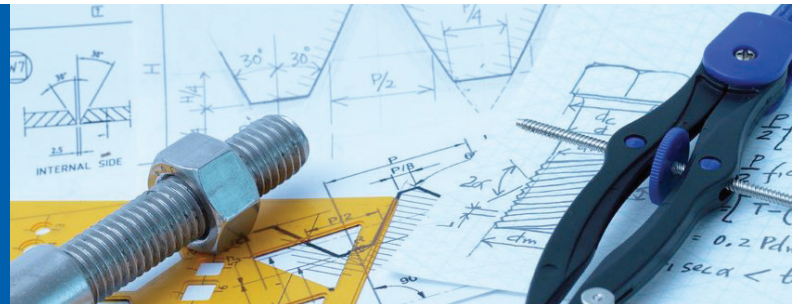


► Stainless Steel

ASTM	AISI	BS	Werstoff	UNS	EU	DIN
A193 B8	304	304S15	1,4301	S30400	XrCrNi18-10	X5CrNi18-9
A193 B8 CL2	304	304S15	1,4301	S30400	XrCrNi18-10	X5CrNi18-9
A193 B8A	304	304S15	1,4301	S30400	XrCrNi18-10	X5CrNi18-9
A193 B8C	347	347S17	1,4550	S34700		X10CrNiNb
A193 B8C CL2	347	347S17	1,4550	S34700		X10CrNiNb
A193 B8CA	347	347S17	1,4550	S34700		X10CrNiNb
A193 B8M	316	316S16	1,4401	S31600	X5CrNiMo17-12-2	X5CrNiMo17-12-2
A193 B8M CL2	316	316S16	1,4401	S31600	X5CrNiMo17-12-2	X5CrNiMo17-12-2
A193 B8M CL2B	316	316S16	1,4401	S31600	X5CrNiMo17-12-2	X5CrNiMo17-12-2
A193 B8M CL2C	316	316S16	1,4401	S31600	X5CrNiMo17-12-2	X5CrNiMo17-12-2
A193 B8MA	316	316S16	1,4401	S31600	X5CrNiMo17-12-2	X5CrNiMo17-12-2
A193 B8T	321	321S12	1,4541	S32100	X6CrNiTi18-10	X10CrNiMoTi18-10
A193 B8T CL2	321	321S12	1,4541	S32100	X6CrNiTi18-10	X10CrNiMoTi18-10
A193 B8TA	321	321S12	1,4541	S32100	X6CrNiTi18-10	X10CrNiMoTi18-10
A320 B8	304	304S15	1,4301	S30400	XrCrNi18-10	X5CrNi18-9
A320 B8 CL2	304	304S15	1,4301	S30400	XrCrNi18-10	X5CrNi18-9
A320 B8A	304	304S15	1,4301	S30400	XrCrNi18-10	X5CrNi18-9
A320 B8C	347	347S17	1,4550	S34700		X10CrNiNb
A320 B8C CL2	347	347S17	1,4550	S34700		X10CrNiNb
A320 B8CA	347	347S17	1,4550	S34700		X10CrNiNb
A320 B8M	316	316S16	1,4401	S31600	X5CrNiMo17-12-2	X5CrNiMo17-12-2
A320 B8M CL2	316	316S16	1,4401	S31600	X5CrNiMo17-12-2	X5CrNiMo17-12-2
A320 B8MA	316	316S16	1,4401	S31600	X5CrNiMo17-12-2	X5CrNiMo17-12-2
A320 B8T	321	321S12	1,4541	S32100	X6CrNiTi18-10	X10CrNiMoTi18-10
A320 B8T CL2	321	321S12	1,4541	S32100	X6CrNiTi18-10	X10CrNiMoTi18-10
A320 B8TA	321	321S12	1,4541	S32100	X6CrNiTi18-10	X10CrNiMoTi18-10
A453 660A	660		1,4980			
A453 660B	660		1,4980			
A453 660C	660		1,4980			
A453 660D	660		1,4980			
A564 630	630					

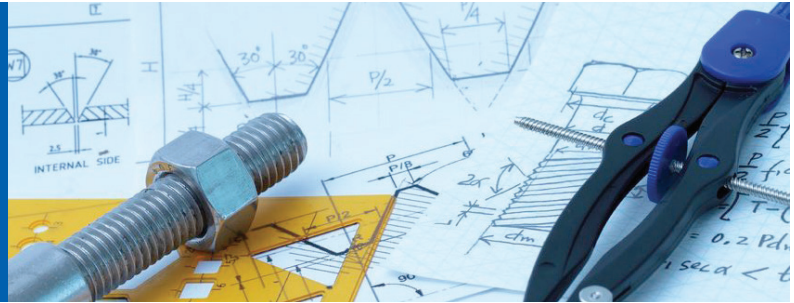
Beck Crawford Inventory

3



► Heavy Hex Nut

ASTM		AISI	BS	Werstoff	UNS	EU	DIN
A194	GR.2	1045	080 M46	1,1191		C45 E	Ck 45
A194	GR.2H	1045	080 M46	1,1191		C45 E	Ck 45
A194	GR.2HM	1045	080 M46	1,1191		C45 E	Ck 45
A194	GR.3	501		1,7362	S50100		
A194	GR.4L						
A194	GR.6	410	410S21	1,4006	S41000	X12Cr13	(G-)X10Cr13
A194	GR.6F	410	410S21	1,4006	S41000	X12Cr13	(G-)X10Cr13
A194	GR.7L	4140/4142	708M40	1,7225	G41400/G41420	42CrMo4	42CrMo4
A194	GR.7M	4140/4142	708M40	1,7225	G41400/G41420	42CrMo4	42CrMo4
A194	GR.8	304	304S15	1,4301	S30400	XrCrNi18-10	X5CrNi18-9
A194	GR.8A	304	304S15	1,4301	S30400	XrCrNi18-10	X5CrNi18-9
A194	GR.8C	347	347S17	1,4550	S34700		X10CrNiNb
A194	GR.8CA	347	347S17	1,4550	S34700		X10CrNiNb
A194	GR.8M	316	316S16	1,4401	S31600	X5CrNiMo17-12-2	X5CrNiMo17-12-2
A194	GR.8MA	316	316S16	1,4401	S31600	X5CrNiMo17-12-2	X5CrNiMo17-12-2
A194	GR.8T	321	321S12	1,4541	S32100	X6CrNiTi18-10	X10CrNiMoTi18-10
A194	GR.8TA	321	321S12	1,4541	S32100	X6CrNiTi18-10	X10CrNiMoTi18-10

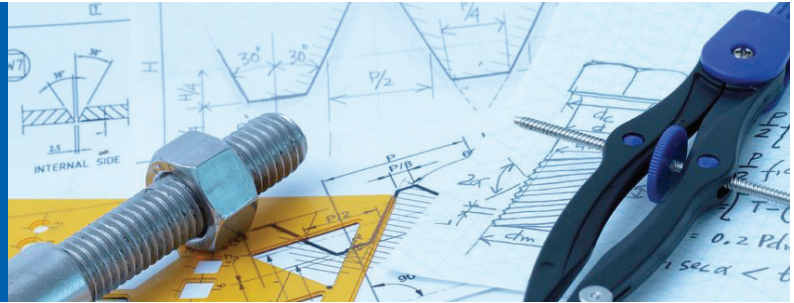


► Duplex & Super Duplex

ASTM		BS	Werstoff	UNS	EU	DIN
A182	F51	Duplex	1,4462	S31803		
A182	F44	Super Duplex	1,4529	S31254		
A182	F53	Super Duplex	1,4468	S32750		
A182	F55	Super Duplex	1,4496	S32760		
A479	F61	Super Duplex	1,4515	S32550		

Beck Industries International Abilities

1

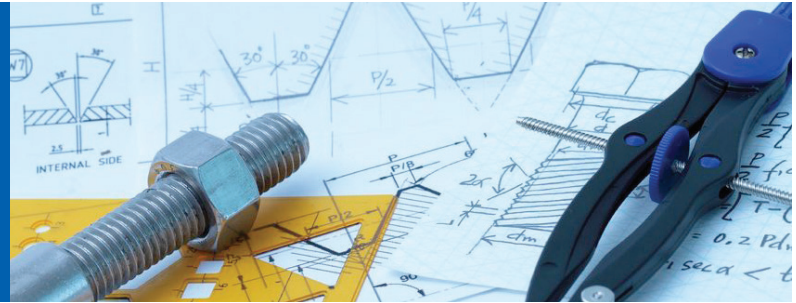


► Alloy & Carbon Steel

ASTM	AISI	BS	Werstoff	UNS	EU	DIN
A193 B5	501	3606-625	1,7362		X15CrMo5-1	12CRM0-19-5
A193 B6	410	410S21	1,4006			(G-)X10CR13
A193 B7	4140/4142	708M40	1,7225	G41400/G41420	42CrMo4	42CrMo4
A193 B7M	4140/4142	708M40	1,7225	G41400/G41420	42CrMo4	42CrMo4
A193 B16	410	410S21	1,4006			(G-)X10CR13
A307 GR.A/B			1,7711	K14072	40CrMoV4-6	40CrMoV4-6
A320 L7	4140/4142	708M40	1,7225	G41400/G41420	42CrMo4	42CrMo4
A320 L7M	4140/4142	708M40	1,7225	G41400/G41420	42CrMo4	42CrMo4
A320 L43	4340		1,6565	G43400	40CrNiMo7-3	
A354 BC						
A354 BD						
A449 TYPE 1/3						
A540 B21						CrMoV
A540 B22	4142					
A540 B23	4340					
A540 B24	4340 Mod					
A540 B24V	4340 Mod					
F3125 A325 - 1						
F3125 A325 - 3						
F3125 A490 - 1						
F3125 A490 - 3						

Beck Industries International Abilities

2



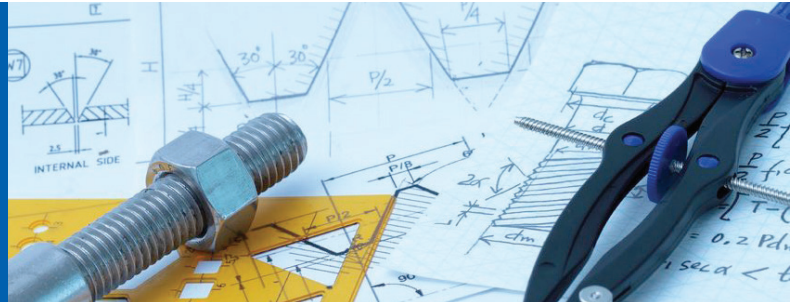
▶ Stainless Steel

ASTM		AISI	BS	Werstoff	UNS	EU	DIN
A193	B8	5304	304S15	1,4301	S30400	XrCrNi18-10	X5CrNi18-9
A193	B8 CL2	304	304S15	1,4301	S30400	XrCrNi18-10	X5CrNi18-9
A193	B8A	304	304S15	1,4301	S30400	XrCrNi18-10	X5CrNi18-9
A193	B8C	347	347S17	1,4550	S34700		X10CrNiNb
A193	B8C CL2	347	347S17	1,4550	S34700		X10CrNiNb
A193	B8CA	347	347S17	1,4550	S34700		X10CrNiNb
A193	B8M	316	316S16	1,4401	S31600	X5CrNiMo17-12-2	X5CrNiMo17-12-2
A193	B8M CL2	316	316S16	1,4401	S31600	X5CrNiMo17-12-2	X5CrNiMo17-12-2
A193	B8M CL2B	316	316S16	1,4401	S31600	X5CrNiMo17-12-2	X5CrNiMo17-12-2
A193	B8M CL2C	316	316S16	1,4401	S31600	X5CrNiMo17-12-2	X5CrNiMo17-12-2
A193	B8MA	316	316S16	1,4401	S31600	X5CrNiMo17-12-2	X5CrNiMo17-12-2
A193	B8T	321	321S12	1,4541	S32100	X6CrNiTi18-10	X10CrNiMoTi18-10
A193	B8T CL2	321	321S12	1,4541	S32100	X6CrNiTi18-10	X10CrNiMoTi18-10
A193	B8TA	321	321S12	1,4541	S32100	X6CrNiTi18-10	X10CrNiMoTi18-10
A320	B8	304	304S15	1,4301	S30400	XrCrNi18-10	X5CrNi18-9
A320	B8 CL2	304	304S15	1,4301	S30400	XrCrNi18-10	X5CrNi18-9
A320	B8A	304	304S15	1,4301	S30400	XrCrNi18-10	X5CrNi18-9
A320	B8C	347	347S17	1,4550	S34700		X10CrNiNb
A320	B8C CL2	347	347S17	1,4550	S34700		X10CrNiNb
A320	B8CA	347	347S17	1,4550	S34700		X10CrNiNb
A320	B8M	316	316S16	1,4401	S31600	X5CrNiMo17-12-2	X5CrNiMo17-12-2
A320	B8M CL2	316	316S16	1,4401	S31600	X5CrNiMo17-12-2	X5CrNiMo17-12-2
A320	B8MA	316	316S16	1,4401	S31600	X5CrNiMo17-12-2	X5CrNiMo17-12-2
A320	B8T	321	321S12	1,4541	S32100	X6CrNiTi18-10	X10CrNiMoTi18-10
A320	B8T CL2	321	321S12	1,4541	S32100	X6CrNiTi18-10	X10CrNiMoTi18-10
A320	B8TA	321	321S12	1,4541	S32100	X6CrNiTi18-10	X10CrNiMoTi18-10
A453	660A	660		1,4980			
A453	660B	660		1,4980			
A453	660C	660		1,4980			
A453	660D	660		1,4980			
A564	630	630					



Beck Industries International Abilities

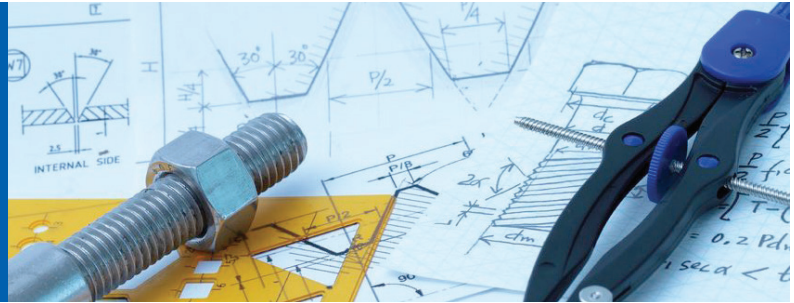
3



► Heavy Hex Nut

ASTM		AISI	BS	Werstoff	UNS	EU	DIN
A194	GR.2	1045	080 M46	1,1191		C45 E	Ck 45
A194	GR.2H	1045	080 M46	1,1191		C45 E	Ck 45
A194	GR.2HM	1045	080 M46	1,1191		C45 E	Ck 45
A194	GR.3	501		1,7362	S50100		
A194	GR.4L						
A194	GR.6	410	410S21	1,4006	S41000	X12Cr13	(G-)X10Cr13
A194	GR.6F	410	410S21	1,4006	S41000	X12Cr13	(G-)X10Cr13
A194	GR.7L	4140/4142	708M40	1,7225	G41400/G41420	42CrMo4	42CrMo4
A194	GR.7M	4140/4142	708M40	1,7225	G41400/G41420	42CrMo4	42CrMo4
A194	GR.8	304	304S15	1,4301	S30400	XrCrNi18-10	X5CrNi18-9
A194	GR.8A	304	304S15	1,4301	S30400	XrCrNi18-10	X5CrNi18-9
A194	GR.8C	347	347S17	1,4550	S34700		X10CrNiNb
A194	GR.8CA	347	347S17	1,4550	S34700		X10CrNiNb
A194	GR.8M	316	316S16	1,4401	S31600	X5CrNiMo17-12-2	X5CrNiMo17-12-2
A194	GR.8MA	316	316S16	1,4401	S31600	X5CrNiMo17-12-2	X5CrNiMo17-12-2
A194	GR.8T	321	321S12	1,4541	S32100	X6CrNiTi18-10	X10CrNiMoTi18-10
A194	GR.8TA	321	321S12	1,4541	S32100	X6CrNiTi18-10	X10CrNiMoTi18-10

Beck Industries International Abilities 4

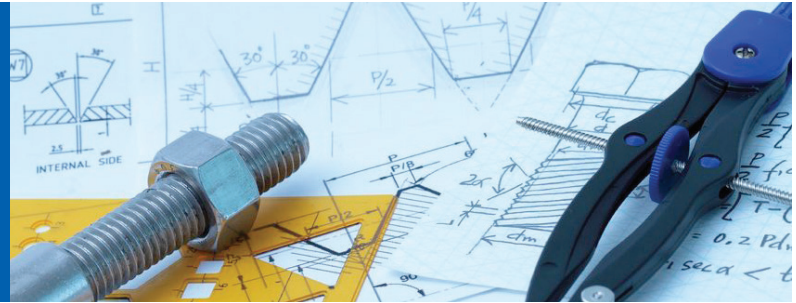


► Nickel alloys

ASTM	Werstoff	UNS	EU
Name	2,436	N04400	NiCu30Fe
Monel 400	2,4375	N05500	NiCu30Al
Monel K500 Gr A	2,4375	N05500	NiCu30Al
Monel K500 Gr B			
Incoloy 800			
Incoloy 800 H			
Incoloy 825			
Alloy 20			
alloy 255	2,4816	N06600	NiCr15Fe
Inconel 600	2,4856	N06625	NiCr22Mo9Nb
Inconel 625	2,4668	N07718	NiCr19NbMo
Inconel 718	2,4669	N07750	NiCr15Fe7TiAl
Inconel X 750	2,4617	N10665	NiMo28
Hastelloy B2	2,4819	N10276	NiMo16Cr15W
Hastelloy C276	2,461	N06455	NiMo16Cr16Ti
Hastello C4	2,4602	N06002	NiCr21Mo14W
Hastelloy C22	2,4665	N06002	NiCr22Fe18Mo
Hastelloy X	2.4630 / 2.4951	N06075	NiCr20Ti
Nimonic 75	2.4631 / 2.4952	N07080	NiCr20TiAl
Nimonic 80A	2.4632 / 2.4969	N07090	NiCr20Co18Ti
Nimonic 90			
Alloy 41			
A286			
Alloy 25			

Beck Industries International Abilities

5



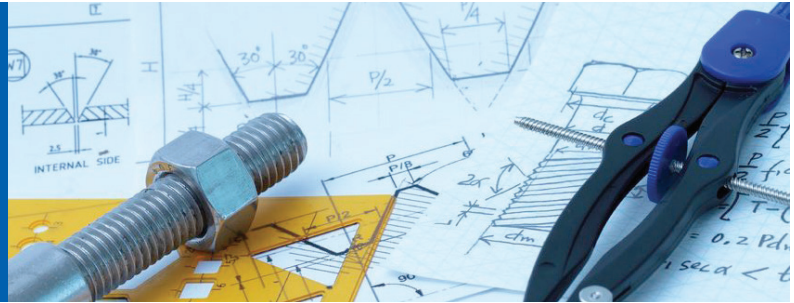
► Duplex & Super Duplex

ASTM		BS	Werstoff	UNS	EU	DIN
A182	F51	Duplex	1,4462	S31803		
A182	F44	Super Duplex	1,4529	S31254		
A182	F53	Super Duplex	1,4468	S32750		
A182	F55	Super Duplex	1,4496	S32760		
A479	F61	Super Duplex	1,4515	S32550		



Beck Industries International Abilities

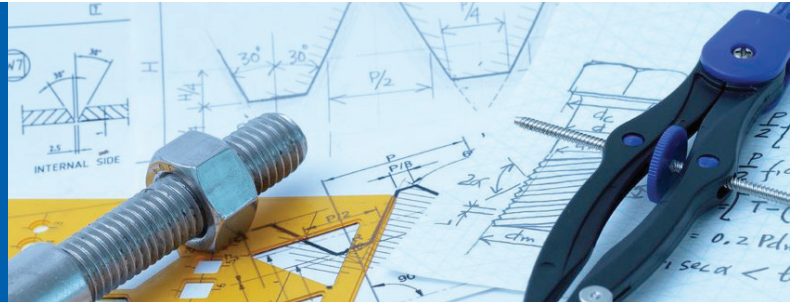
6



► EN & Other Exotics EN 10083

N° Werstoff	Libellé	N° (cont.)	Libellé	N° (cont.)	Libellé
1,553	20MnB5	1,5532	38MnB5	1,651	39NiCrMo3
1,6582	34CrNiMo6	1,6773	36NiCrMo16	1,7006	46Cr2
1,7034	37Cr4	1,7037	34CrS4	1,7039	41CrS4
1,7185	33MnCrB5-2	1,7213	25CrMoS4	1,722	34CrMo4
1,7226	34CrMoS4	1,7228	50CrMo4	1,5531	30MnB5
1,5815	35NiCr6	1,658	30CrNiMo8	1,6747	30NiCrMo16-6
1,7003	38Cr2	1,7033	34Cr4	1,7035	41Cr4
1,7038	37CrS4	1,7182	27MnCrB5-2	1,7189	39MnCrB6-2
1,7218	25CrMo4	1,725	42CrMo4	1,7227	42CrMoS4
1,8159	51CrV4				

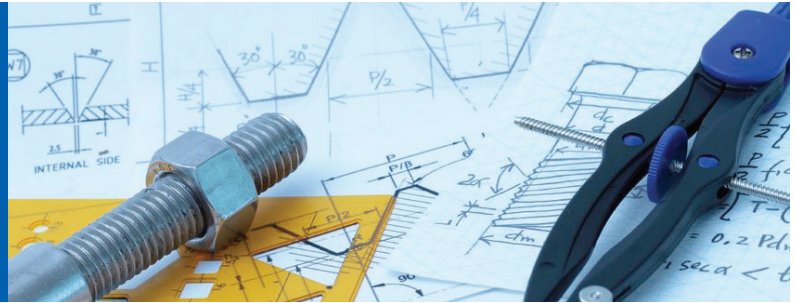




► EN 10269

N° Werstoff	Libellé	N° (cont.)	Libellé	N° (cont.)	Libellé
1,1133	20MnB5	1,1191	C45E	1,4303	X45CrNi18-12
1,4401	X5CrNiMo17-12-2	1,4429	X2CrNiMoN17-13-3	1,491	X3CrNiMoBN17-13-3
1,4919	X6CrNiMoB17-12-2	1,4938	X12CrNiMoV12-3	1,498	X6NiCrTiMoVB25-15-2
1,4986	X7CrNiMoBNb16-16	1,5523	16MnB4	1,568	X12Ni5
1,658	30CrNiMo8	1,7218	25CrMo4	1,7233	42CrMo5-6
1,7709	21CrMoV5-7	1,7729	20CrMoVTiB4-10	2,4952	NiCr20TiAl
1,1181	C35E	1,4301	X5CrNi18-10	1,4307	X2CrNi18-9
1,4404	X2CrNiMo17-12-2	1,4567	X3CrNiCu18-9-4	1,4913	X19CrMoNbVN11-1
1,4923	X22CrMoV12-1	1,4941	X6CrNiTiB18-10	1,4982	X10CrNiMoMnNbVB15-10-1
1,551	35B2	1,5662	X8Ni9	1,6563	41NiCrMo7-3-2
1,6582	34CrNiMo6	1,7225	42CrMo4	1,739	X15CrMo5-1
1,7711	40CrMoV4-6	2,4669	NiCr15Fe7TiAl		

Coatings/ Surface treatment



Experienced in all aspects of our clients' needs leads Beck Crawford Singapore in providing a wide range of coating for all industry.

Electro Plating

- zinc bicromate
- zinc passivated
- zinc nickel
- cadmium

Electroless Plating

- nickel

Galvanizing

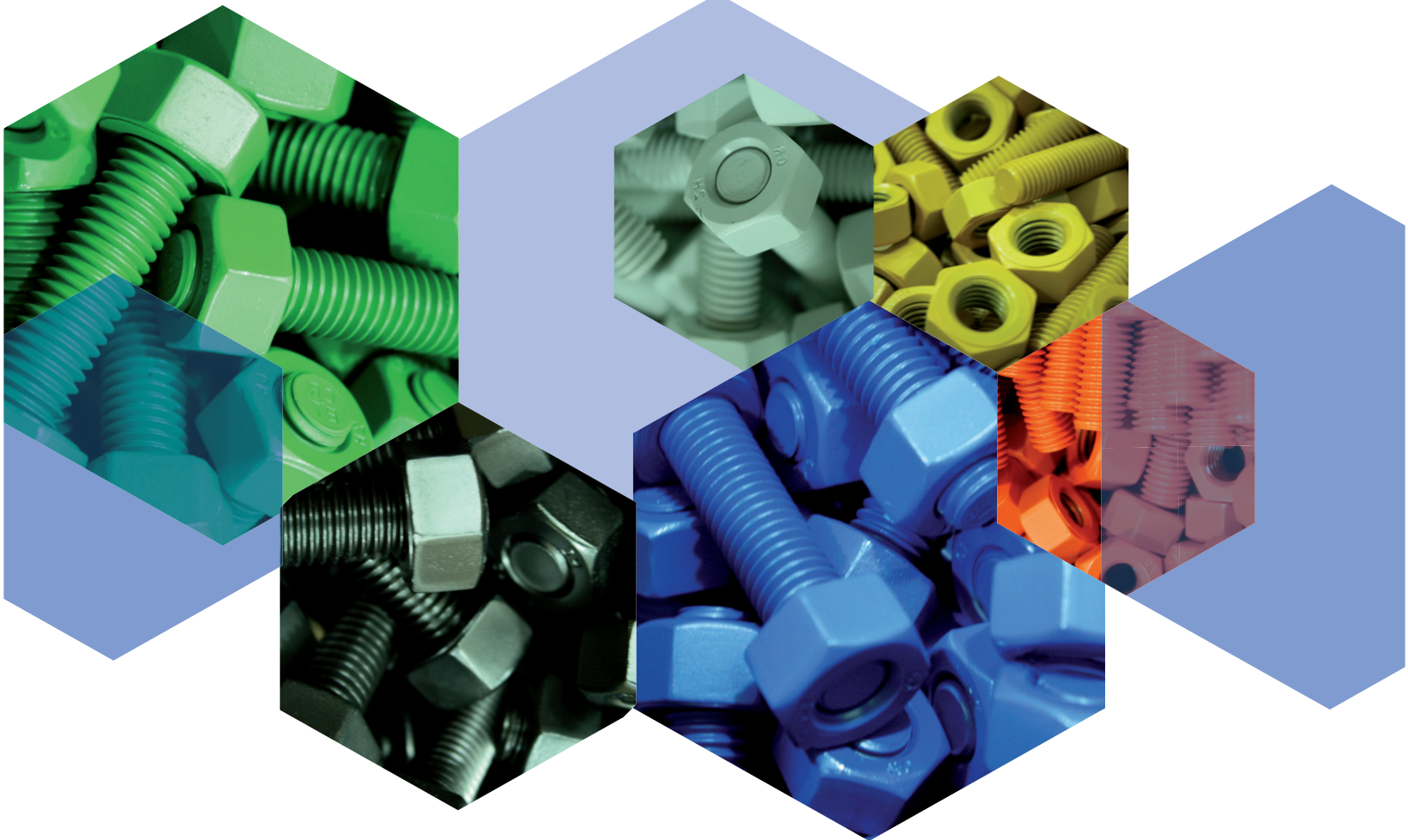
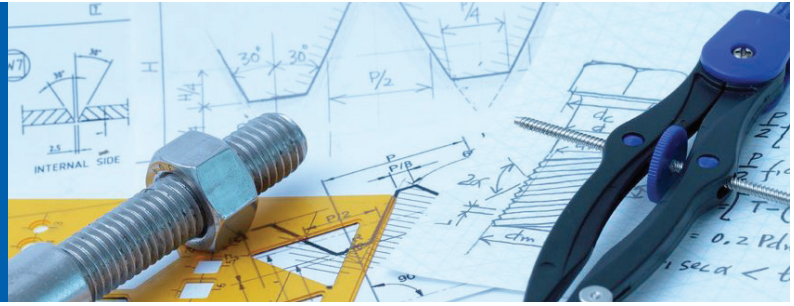
- hot dipped
- mechanical
- centrifugal

Others

- sheradised
- zinc flake
- xylan
- xylar



Coatings/ Surface treatment



In 1998, we started our proprietary Xylar and Xylan Coating line. What set Beck Crawford Singapore apart from others, is that the coating process is made entirely in-house, allowing them to monitor and maintain the quality and integrity of the coating.

Through our "Quality Management System", all finished products are put through to the strictest possible tests.

In 2009, in recognition for the excellent standards set in their application of Xylan and Xylar, Beck Crawford Singapore were appointed by Whitford Worldwide as their Quality Approved Coater and were presented with the Approved Coater Seal.





One step
ahead

to better tighten
performance

Quality is a priority issue, because our clients manage installations that entail a risk to populations and the environment. We have built our business model on this requirement, while guaranteeing the competitiveness of our offer on the international market.

CONTROLLED QUALITY

Our control of quality is firstly founded on the capitalisation of our wide-ranging industrial know-how: the internalisation of processes and tools, along with safety and risk management culture.

THE BEST IN INNOVATION

To optimise our efficiency, the reliability of our processes, products and services, we have implemented a continuous improvement program: participative management, rewards for innovation, massive investments in training and leading edge equipment on all our sites.

A SENSE OF SERVICE

We will always try to establish a long term relationship with our clients based on feedback, the sense of responsibility, reliability and the proactive implementation of solutions: the search for technical solutions, bundled offers, continuous improvement programme.

TEAM SPIRIT

As a family-owned industrial group, we build our future success on the long term trust we have nurtured with our employees: positive management, transparency, loyalty, ethics and the business's environmental and societal responsibility acknowledged by all.



BECK INDUSTRIES

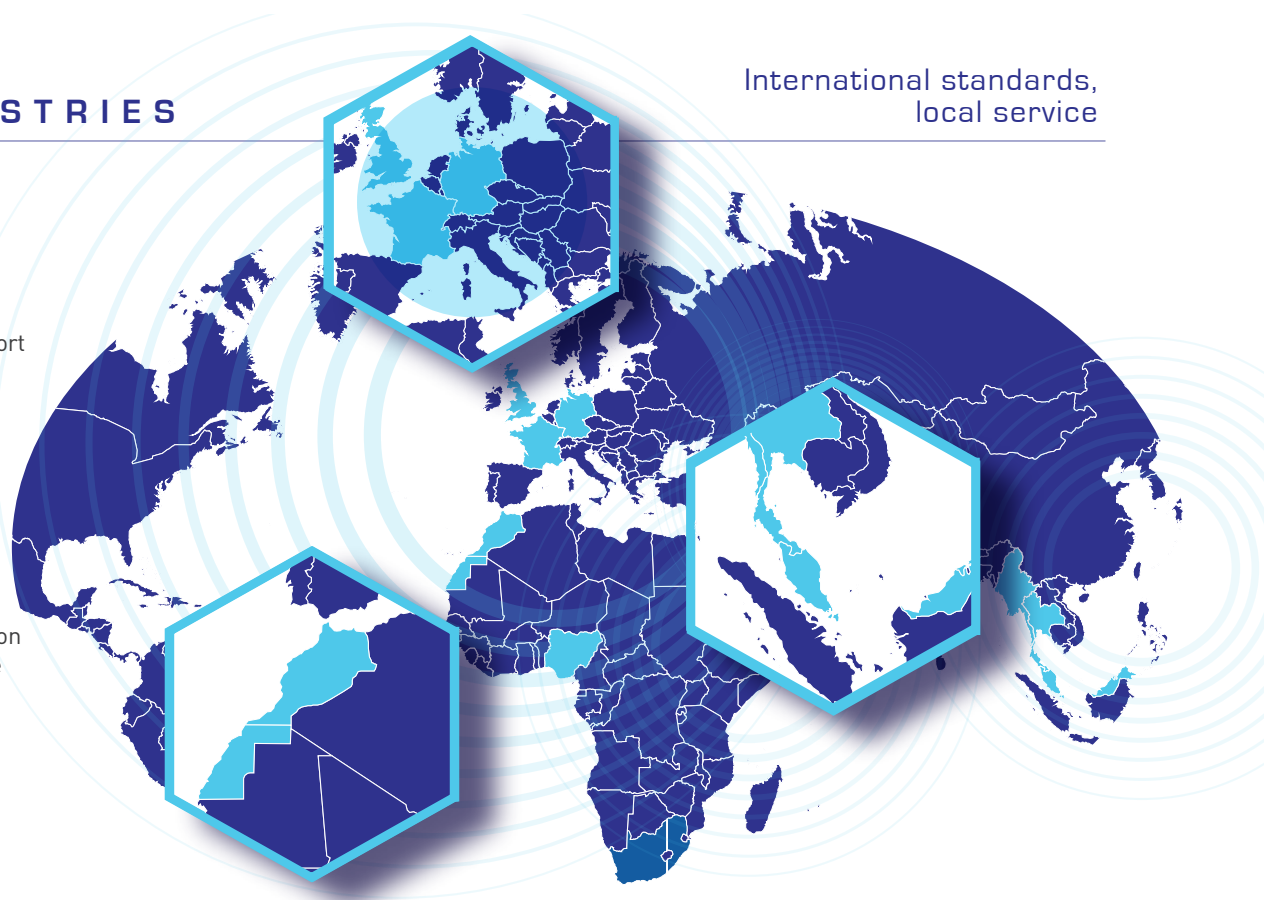
International standards,
local service

International locations

The 10 Beck Industries production sites have a significant proportion of export sales. Our sites guarantee you a competitive and quality service wherever you may be.

One-day shipping anywhere in the world

We have a flexible production and storage facility capable of managing your emergencies: shipping in 24 hours.



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Beck Industries

Tightening up on Performance