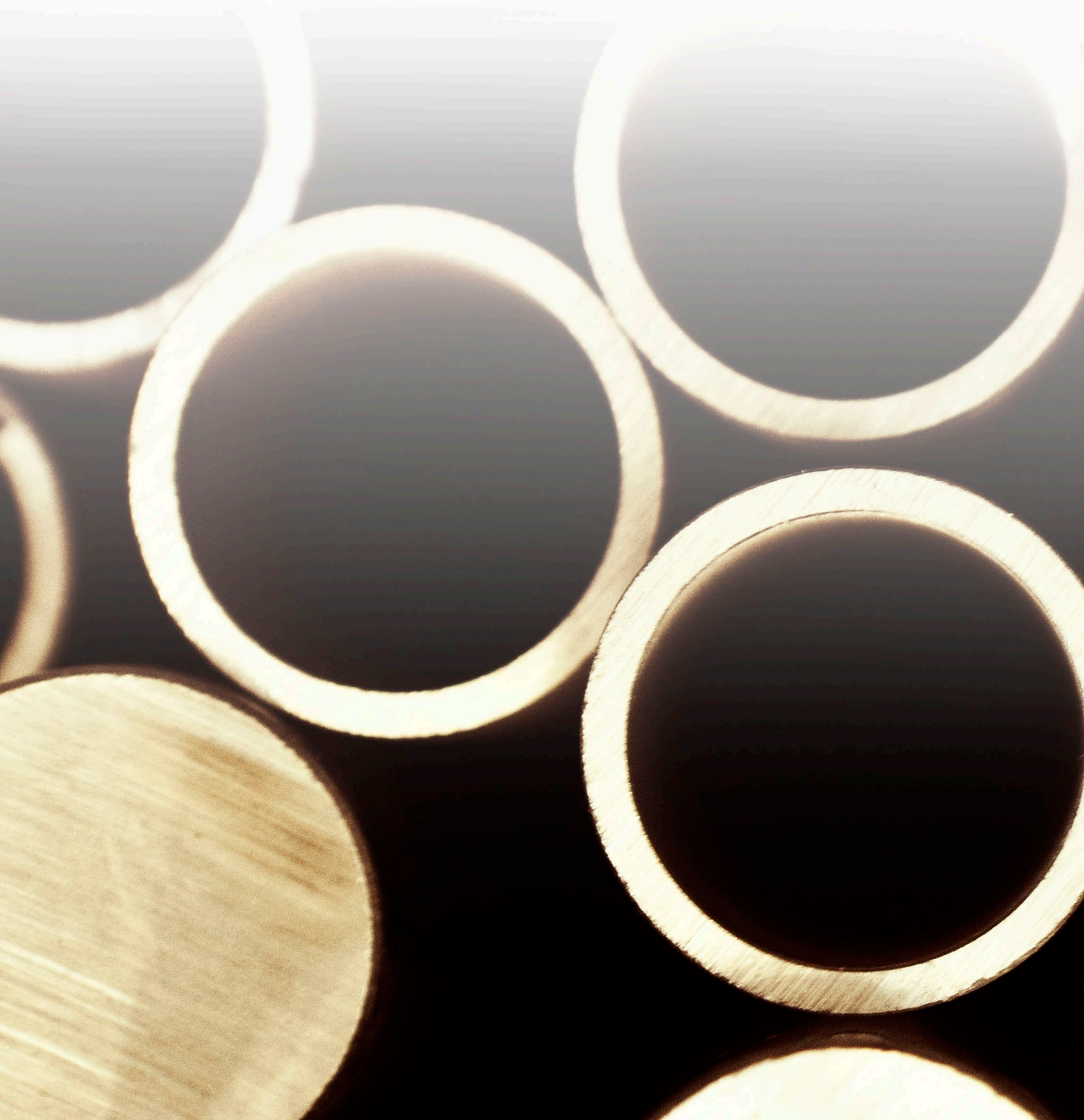


HARALD PIHL

SPECIAL ALLOYS AND TITANIUM



EUROPE'S LARGEST STOCKHOLDER OF SPECIAL ALLOYS AND TITANIUM
FASTEST SUPPLIER IN EUROPE • OVER 3.000 PRODUCTS IN STOCK
100+ YEARS OF EXPERIENCE • COMPLETE SERVICE CENTER



The traditional HARALD PIHL annual Christmas gathering. With staff from all over Europe represented.

HARALD PIHL EXPERTS IN METAL SINCE 1912

HARALD PIHL is a family company with a long history. The company was founded in 1912 by Harald Pihl and is still today, over 100 years later, managed by the third and fourth generation of the Pihl family. We have been in the business so long that we have established contacts and local agents all over the world. Our long-lasting experience also guarantees a vast knowledge of metallurgy.

We supply material accredited by international renowned certification agencies.

Certified material is supplied according to international standards valid for the material in question (ASTM, ASME, AMS, UNS, NACE and NORSOK to name some). We supply in

to, among other markets; Industrial, Medical, Aerospace, Automotive, Oil/Gas/Subsea and processes industry all over the world.

We are Europe's largest stockholder of Special alloys and Titanium. With 14 offices spread all over the world we strongly believe in local presence to give our customers the best possible service.

For HARALD PIHL, no delivery is too big, too small or too complicated. We listen and understand your need and our daily goal is to meet your requirements and exceed your expectations. That's why we think you should try us as your supplier.

THE RESPONSIBLE CHOICE

HARALD PIHL is convinced that long-term success goes hand in hand with sustainable development and broad corporate responsibility. For us, sustainability involves long-term development of financial, environmental and social aspects. As with other activities at HARALD PIHL, we strive to continuously improve our procedures and processes. It goes without saying that we comply with basic prevailing legislation and regulations.



ETHICS

Honesty, fairness and respect are a fundamental part of our operation. We are conscious of the fact that our operations affect many people along the supply chain and we want everyone to be treated with mutual respect. We support human rights and matters regarding labor legislation. HARALD PIHL does not tolerate any form of corruption.

ENVIRONMENT

We are driven by common values stating that we should be a sustainable company with a conscientious and preventative environmental policy – we want to contribute to sustainable development. Firstly, we work to ensure that our environmental impact is as small as possible. We do this by managing our waste effectively and minimising our emissions. We also aim to utilise our resources as efficiently as possible. One of our objectives is for our customers and partners to consider us the responsible choice among material suppliers.

HEALTH AND SAFETY

Workplace safety is a top priority. To prevent work-related accidents, relevant training and instructions are provided together with a safe working environment. We work proactively and continuously evaluate our processes and potential risks. We stand up for the principle of people's equal value and rights. Our employees are HARALD PIHL's most important resource and we are proud of the expertise that permeates our entire organisation. Protecting the health and well-being of our staff is therefore a natural part of our corporate culture. All employees should maintain a good balance between work and their private life and we are convinced that this is a prerequisite for long-term success.

SOCIAL ENGAGEMENT

Social engagement is an important aspect for all employees at HARALD PIHL. This is why we have collectively decided to launch a venture that we refer to as HARALD PIHL's Social Commitments.

Our commitments aim to support social initiatives in the hope of contributing to a better future. The projects we choose to support may vary over time, but the common denominator is that HARALD PIHL is passionate about all of them.

More catastrophes than ever before are currently taking place and 30 million children have been forced to flee their homes. They are in desperate need of help and we want to make a contribution by supporting UNICEF's emergency relief for vulnerable children. We donate a portion of our sales to UNICEF. This means that all of our customers, suppliers and partners indirectly contribute to helping children in need. All contributions count and three bags of nut cream a day could be all that is needed to save the life of a malnourished child. We hope to inspire others to undertake similar initiatives. Read more about UNICEF, what they do and how you can help on their website: <https://unicef.com/>

FAST DELIVERIES THROUGHOUT THE WORLD

FITTINGS / FORGINGS / TRADING

Over the years we have built a strong network of contacts all over the world. That is why we always strive to meet your needs, even if you are looking for material we do not have in stock. By establishing long term relations with suppliers of fittings and forgings, we can supply any size or shape to our customers with exceptional quality and short lead times. This also goes for sizes in plate/bar/pipe/wire or welding material that do not exist in our ordinary stock-range. No matter how complicated the sizes are or how rare the material might be, we are experts in finding it for you.

FAST DELIVERIES

We are well-known for our fast deliveries, regardless of where in the world you are. An order acknowledged before lunch is sent that same afternoon. Our excellent connection with our forwarders means that you will have your goods in a few days time, almost as we were next door.

ONE STOP SHOP

We at HARALD PIHL can offer a complete Service Center with excellent connections throughout the world as your supplier. By combining our extensive knowledge in special alloys and titanium together with our customer service, the customer gets a complete service throughout the whole process where both material and desired length/profile can be delivered directly from our warehouse.

WE PROVIDE OUR CUSTOMER A FULL RANGE OF SERVICES:

Waterjet cutter – plates up to 96mm thickness
Guillotine – plates up to 8mm thickness
Band saws – bars & pipes up to 460mm OD
Abrasive cutting wheel – fine tubes from 2mm OD
Coil handling machine – cutting coils to lengths

QUALITY MANAGEMENT DEPARTMENT

We have a Quality Department with employees dedicated to stay in the forefront of current and changing demands regarding quality and certifications. HARALD PIHL has a quality Management System applicable to ISO 9001:2008 (since 1997) and to AS/EN 9120 Rev. A (since 2013).

3 WAREHOUSES WORLDWIDE

We stock most of the common forms in special alloys and titanium:

- Wires and bars
- Tubes and pipes
- Strips, sheets and plates
- Welding material

OVER 3,000 PRODUCTS

We are Europe's largest stockholder of special alloys and titanium. With a wide range of nickel, titanium and copper alloys on stock we are able to supply to industries all over the world. Most of our alloys are designed to function in extreme environments and applications (such as high temperatures, corrosive environments and cyclic loads) where high demands are set on both function, quality and supplier.



HARALD PIHL *AEROSPACE*

HARALD PIHL has a long history of supplying aerospace alloys to the aviation industry. Our stock includes a wide range of high temperature and corrosion resistant aerospace metals.

We are an approved source for UTC Aerospace Systems and GKN Aerospace.

Currently we serve projects from GE Aerospace, Honeywell, Rolls Royce and UTAS through their sub-suppliers.

We are dedicated to your success and provides on-time and high-quality deliveries with full traceability according to your requirements.

HARALD PIHL work closely with the best and most recognized material manufacturers and we are a preferred supplier of Special Metals. In addition, we stock material from ATI, Carpenter, VDM, Böhler and Baoji Titanium Industry.

We offer a wide range of alloys in various form and sizes used for aerospace applications.



***AEROSPACE* Nickel and Titanium alloys, we keep in stock**

INCONEL® alloy 718 AMS 5662 / AMS 5663 / AMS 5596

INCONEL® alloy 625 AMS 5666 / AMS 5599

INCONEL® alloy HX AMS 5754 / AMS 5536

NIMONIC® alloy 75 BS 2 HR 5 / RRMS 33030/1

NIMONIC® alloy 80A BS 3 HR 1

NIMONIC® alloy 90 BS 3 HR 2

NIMONIC® alloy 263 AMS 5872

Alloy 36 ASTM F1684

INCOLOY® alloy A-286 AMS 5732

TiGR5 / Ti6Al4V AMS 4928 / AMS 4911

NICKEL ALLOYS

W.-Nr	Name	UNS	Specifications	Round-bars	Sheets & plates	Tubes & pipes	Welding material
1.3912	Nilo® 36 / Invar®	K93600	SEW 385, ASTM F1684	x	x	x	x
1.3981	Nilo® K / Kovar®	K94610		x		x	x
1.4862	Incoloy® DS	n/a	BS 3072, BS 3076	x	x		x
1.4864	Incoloy® 330	N08330	ASTM B536	x			x
1.4876	Incoloy® 800	N08800	ASTM B/ASME SB408/564/409/407 BS 3076/3072	x	x	x	x
1.4958	Incoloy® 800H	N08810	ASTM B/ASME SB408/564/409/407 BS 3076/3072	x	x	x	x
1.4959	Incoloy® 800HT	N08811	ASTM B/ASME SB408/564/409/407 BS 3076/3072	x	x	x	x
1.4980	Incoloy® A-286	S66286	AMS 5732	x			
2.4066	Nickel 200	N02200	ASTM B/ASME SB160/162/161	x	x	x	x
2.4068	Nickel 201	N02201	ASTM B/ASME SB160/162/161	x	x	x	x
2.4360	Monel® 400	N04400	ASTM B/ASME SB164/127/165	x	x	x	x
2.4375	Monel® K-500	N05500	ASTM B865, BS 3076	x			x
2.4602	Alloy C-22	N06022	ASTM B/ASME SB574/575/619/626	x	x	x	x
2.4606	Inconel® 686	N06686			x		x
2.4630	Nimonic® 75	N06075	BS 2/3 HR 5, MSRR 7004	x	x		
2.4631	Nimonic® 80A	N07080	ASTM B637, BS 3076	x			x
2.4632	Nimonic® 90	N07090	BS 3 HR 2	x	x		x
2.4650	Nimonic® 263	N07263	AMS 5886/5872, MSRR 7053	x	x		x
2.4654	Waspaloy®	N07001	AMS 5706/5708	x			
2.4662	Nimonic® 901	N09901		x			
2.4665	Alloy X	N06002	AMS 5754/5536	x		x	x
2.4668	Inconel® 718	N07718	AMS 5662/5663/5596	x		x	x
2.4669	Inconel® X-750	N07750	AMS 5667	x			
2.4675	Alloy C-2000	N06200	ASTM B574	x			
2.4816	Inconel® 600	N06600	AMS 5665/5540, ASTM B/ASME SB166/168/167	x	x	x	x
2.4819	Alloy C-276	N10276	ASTM B/ASME SB564	x	x	x	x
2.4851	Inconel® 601	N06601	AMS 5715/5870, ASTM B/ASME SB166/168/167	x	x	x	x
2.4856	Inconel® 625	N06625	AMS 5666/5599/5879	x	x		x
2.4856	Inconel® 625 LCF	N06626	AMS 5599/5879		x		
2.4858	Incoloy® 825	N08825	ASTM B/ASME SB425/564/424/423	x	x		x
n/a	Nitronic® 50	S20910	ASTM A276/479	x			
n/a	Nitronic® 60	S21800	AMS 5848, ASTM A262/276/193/479	x			
n/a	Nilomag® 77	n/a	SMW STANDARD		x		
n/a	Incoloy® 925	N09925	ASTM B805	x			
n/a	AL6XN	N08367	ASTM A/ASME SA479, ASTM B/ASME SB691	x			



TITANIUM ALLOYS

W.-Nr	Name	UNS	Specifications	Round-bars	Sheets & plates	Tubes & pipes	Welding material
3.7025	Titanium Gr 1	R50250	T35, ASTM B/ASME SB348/265/338, ASTM F67	x	x	x	x
3.7035	Titanium Gr 2	R50400	T40, ASTM B/ASME SB348/265/338/861/862	x	x	x	x
3.7055	Titanium Gr 3	R50550	T50, ASTM B/ASME SB348	x			
3.7065	Titanium Gr 4	R50700	T60, ASTM B/ASME SB348	x			
3.7165	Titanium Gr 5	R56400	TA 6 V, AMS 4928/4911, ASTM B/ASME SB348/265	x	x		x
3.7165	Titanium Gr 5 ELI	R56407	TA 6 V ELI ASTM F136	x			
3.7235	Titanium Gr 7	R52400	T40 Pd, ASTM B/ASME SB348	x		x	x

COPPER ALLOYS

W.-Nr	Name	UNS	Specifications	Round-bars	Sheets & plates	Tubes & pipes	Welding material
2.0850	Brush Alloy 3	C17510	CW110C		x		
2.0850	Hovadur CNB	C17510	CW110C		x		
2.0855	Hovadur CNCS	C18000	CW112C	x			
2.0872	CuNi10Fe1Mn	C70600	CW352H	x			
2.0966	CuAl10Ni5Fe4	C63000	CW307G	x			
2.1020	CuSn6	C51900	CW452K	x	x		x
2.1247	Brush Alloy 25	C17200	CW101C	x	x		
2.1247	Brush Alloy 190	C17200	CW101C		x		
2.1247	CB2	C17200	CW101C	x			
2.1248	Brush Alloy M25	C17300		x			
2.1285	CCB	C17500	CW104C	x	x		
2.1293	CCZ	C18150	CW106C	x			
2.1546	Tellurium Copper	C14500	CW118C	x			
	Brush Alloy 174	C17410			x		
	CCNB	CW103C		x	x		

SPECIAL ALLOYS

W.-Nr	Name	UNS	Specifications	Round-bars	Sheets & plates	Tubes & pipes	Welding material
1.4547	254 SMO®		ASTM A276/182/479/240 ASTM SA479/240	x	x		
	Stellite® 6B		AMS 5894	x	x		
	Molybdenum		ASTM B387	x			
	Tungsten		ASTM B777	x			
	Tungsten Copper		ASTM B702	x			

FOR FURTHER INFORMATION ABOUT AVAILABILITY – PLEASE CHECK OUR DAILY UPDATED STOCK LIST AT: **WWW.HARALDPIHL.COM**

NEED AN ALLOY SUPPLIER? TALK TO US

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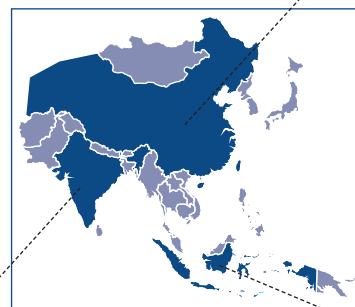
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HARALD PIHL

SPECIAL ALLOYS AND TITANIUM

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