

AEROSPACE SOLUTIONS

Aerospace Precision, Our Mission



WALSIN LIHWA CORPORATION

WIRE & CABLE, STAINLESS STEEL, RESOURCES
25F, No.1, Songzhi Rd., Taipei 11047, Taiwan
+886-2-8726-2211 | www.walsin.com

Walsin Lihwa Walsin-er

Walsin Lihwa x Steeval



COGNE ACCIAI SPECIALI S.P.A.

STAINLESS STEEL & HIGH-PERFORMANCE ALLOYS
Via Paravera 16, 11100 Aosta (AO), Italia
+39-01-65-3021 | www.cogne.com

Cogne Acciai Speciali S.p.A.



SPECIAL MELTED PRODUCTS LTD.

STAINLESS STEEL & HIGH-PERFORMANCE ALLOYS
President Way, Sheffield S4 7UR, United Kingdom
+44-114-272-0081 | www.specialmeltedproducts.com

Special Melted Products Ltd



DMV GMBH

SEAMLESS PIPES & TUBES
Wiesenstraße 36, 45473 Mülheim an der Ruhr, Germany
+49-0-208-458-01 | www.dmv-tubes.com

DMV GmbH



ADVANCED MANUFACTURING (SHEFFIELD) LTD.

PRECISION MACHINING
Unit B, Poplars Business Park, Poplar Way,
Catcliffe, Rotherham S60 5TR, United Kingdom
+44-170-937-3673 | www.aml-sheffield.co.uk

AML Sheffield

Walsin

WALSIN LIHWA GROUP



Featuring : **steeval**

Introduction to the Walsin Lihwa Group

Founded in 1966, Walsin Lihwa Group ("Walsin Lihwa" or the "Group") began as a conductor cable manufacturer and is now a global industrial supplier of advanced materials and infrastructure solutions. Walsin Lihwa's main business units include stainless steel and advanced alloys, wire and cable, and resources - all linked by integrated systems and advanced manufacturing capabilities. The Group is focused on delivering excellence, integrity, and innovation in our products to our customers.

Headquartered in Taipei, Taiwan, Walsin Lihwa is a publicly-traded company on the Taiwan Stock Exchange (TSE Ticker: 1605). The Group has a worldwide presence with over 40 offices across Asia Pacific, Europe, and North America. Walsin Lihwa utilizes a globally integrated manufacturing and service network supported by a committed workforce of over 11,000 employees. Walsin Lihwa is equally committed to sustainable growth with Environmental, Social, and Governance (ESG) programs integrated with our operations to ensure long-term value for clients, shareholders, and the greater community.

Core Businesses

Stainless Steel

- Billet, Slab, Ingot
- CR/HR Coil & Precision Foil
- Hot-Rolled Bar
- SteeVal® Cold-Finished Bar
- Wire Rod
- Seamless Pipes & Tubes

Wire & Cable

- Power Cable
- Copper Wire
- Industrial Cable
- Submarine Cable

Resources

- Development and Production of Nickel Intermediates
- Raw Materials and Metals Trading

Real Estate

- Development and Sustainable Management of Real Assets

Key Industry Sectors

Aerospace & Defence

- Jet Engines
- Airframes
- Defence
- Space / Other

Industrial Automation & Robotics

Modular Data Centers

Oil & Gas

Automotive

Semiconductor

Nuclear Energy

New Energy

Medical

Qualification & Certifications

Aerospace

Environmental, Social, and Governance

- ISO 14001 / 14064 / 14067 / 45001 / 46001 / 50001
- Science Based Targets Initiative (SBTI)
- ResponsibleSteel Initiative
- Responsible Minerals Initiative (RMI)

Integrated Aerospace Capabilities

The Group leverages centuries of metallurgical expertise and global manufacturing capabilities to serve as a one-stop shop for aerospace solutions. Our vertically integrated platform allows us to deliver high-performance materials, engineered products, and manufacturing expertise to our customers as a globally trusted partner.

The Group supports a vast array of aerospace customers from OEMs, MROs, and supply chain partners as we continue to expand our capabilities and qualifications across our facilities worldwide.

Key Processes

Group Entities

Melting & Remelting

- AOD, EAF, and RH Degassing
- VIM, VIDP, VAR, and ESR
- High Purity Alloy Production

Forming & Finishing

- Open-die Forging
- Hot Rolling / Extrusion
- Cold Pilgering / Drawing
- Heat Treatment
- Peeling Turning and Grinding

Machining

- 5-Axis CNC
- Root Slot Milling / Broaching
- Gear Capability (Curvic Coupling and Spline)
- Precision Grinding

Testing & Inspection

- Mechanical Testing
- Metallurgical Testing
- Corrosion Testing
- Elemental Analysis

Total Group Capacity of 1,093ktpa ⁽²⁾

Total of 6 Forges and 17kt Press Force ⁽³⁾

Total Machining Capacity of over 30 5-Axis Mill/Turn Centres

Qualified Special Processes and Materials Testing

Customers

COM.STEEL INOX

Notes: (1) Heat Treating, NonDestructive Testing, and Materials Testing Laboratories; (2) Includes melting & remelting capacity under construction; (3) Includes new forge press to be commissioned in 2027.

Historical Milestones

Founded Walsin Lihwa, began in wire and cable manufacturing.

1966

Expanded into stainless steel manufacturing with the founding of the first mill in Yenshui, Taiwan.

1993

Commissioned flat coil rolling mill in Taichung, Taiwan.

2013

Acquired Cogne Acciai Speciali, Italy, expanding stainless steel in Europe.

2022

Inaugurated Yangmei Smart Cable Manufacturing plant.

2024 MAY

Acquired DMV, strengthening advanced seamless tube capabilities in Germany, France, Italy and United States.

NOV

Acquired Special Melted Products, UK, a producer of stainless steel and nickel alloys.

2023

Invested in AML (Sheffield), UK, a high precision machining business.

2025 MAR

Inaugurated Kaohsiung submarine cable plant.

DEC

Initial public offering on the Taiwan Stock Exchange.

1972

Established stainless steel production based in Jiangyin and Changshu, China, commencing seamless tube manufacturing.

1997

Established operations in Indonesia to secure strategic nickel resources.

2020

Company Introduction

Founded in 1966 and headquartered in Taipei, Taiwan, **Walsin Lihwa** is a leading global supplier of stainless steels, advanced alloys, and cable & wire solutions. Walsin Lihwa's manufacturing and commercial operations in Asia Pacific provides integrated materials and products serving demanding industries including aerospace, energy, and industrial applications.

In recent years, Walsin Lihwa has accelerated its expansion into the aerospace sector through acquisitions and strategic investments across specialty alloys, seamless tubes and precision-engineered components. Leveraging its metallurgical expertise, advanced manufacturing capabilities and comprehensive cable & wire technologies, Walsin Lihwa is building a long-term aerospace materials platform while supporting future opportunities in aerospace manufacturing.



Aerospace Differentiators



Specialty Materials Expertise

Decades of experience in stainless steels, nickel alloys and high-performance materials for demanding applications



Aerospace Growth & Qualification Roadmap

Strategic investments in aerospace materials, AMS qualifications and NADCAP-certified processes



Integrated Global Manufacturing Platform

Extensive production footprint across Asia, Europe and North America supporting global customers



Sustainability & Responsible Manufacturing

Strong commitment to ESG initiatives and low-carbon materials development

Asia Presence



● Stainless Steel ● Wire & Cable

Capabilities

Melting & Remelting

- EAF-VOD (800ktpa)
- 1x ESR (10t) ⁽¹⁾
- 1x VAR (10t) ⁽¹⁾

Forming & Treatment

- Hot Rolling
- Open-die Forging ⁽¹⁾
- Heat Treatment ⁽¹⁾

Finishing

- Peeling (up to 160 mm diameter)
- Drawing
- Grinding

Applications ⁽²⁾



▲ Actuation System (AI-generated image)



▲ Landing Gear System (AI-generated image)

Qualification & Certifications



9001:2015



Key Grades

Steel Family	AMS ⁽³⁾	AISI	W. Nr. ⁽⁴⁾	UNS
Austenitic	5640	303	1.4305	S30300
	5639	304	1.4301	S30400
	5647	304L	1.4307	S30403
	5651	310	1.4841	S31000
			1.4845	S31008
	5648	316	1.4401	S31600
	5653	316L	1.4404	S31603
	5645	321	1.4541	S32100
			1.4544	S32109
	5646	347	1.4550	S34700
		347H	1.4546	S34709
Martensitic	5613	410	1.4006	S41000
	5610	416	1.4005	S41600
	5618	440C	14125	S44004

Steel Family	AMS ⁽³⁾	AISI	W. Nr. ⁽⁴⁾	UNS
Precipitation Hardening	5659	15-5PH ⁽⁵⁾	1.4545	S15500
	5643	17-4PH	1.4542	S17400
	5622			
	5731			
	5732	660	1.4980	S66286
	5734	A286	1.4944	
	5737			
Low Alloy Steel	5629	13-8PH ⁽⁵⁾	1.4534	S13800
	6257			
	6417	300M ⁽⁵⁾	1.6928	K44220
	6419			
Nickel Alloy	5662	718 ⁽⁵⁾	2.4668	NO7718
	5663			

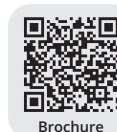
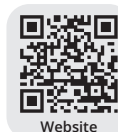
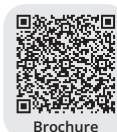
Product Dimensions

Form	Diameter (mm)		Length (m)		Weight (kg)	
	Min	Max	Min	Max	Min	Max
Hot-Rolled Bars	16	130	2.5	6.5	300	N/A
Forged Bars	145	350	2.5	6.5	300	N/A
Wire Rods	5	40	N/A	N/A	300	1,700

Cable Solutions

Cable Type	Insulation	Voltage	Number of Cores	Thickness of Conductor	Typical Applications
Low Voltage Wire and Cable	XLPE, PVC, ETFE, XL-ETFE, PTFE	300-600 V	1-36 C 1-36 P	1.2-3.2 mm; 0.5-500 mm ²	- Aerospace infrastructure - Aerospace electrical systems

Notes: (1) Target commissioning: 2029; (2) Representative applications for near-term aerospace expansion and customer qualification; (3) AMS qualification for all grades in progress, with completion targeted in 2028–2029; (4) Werkstoffnummer (German Material Number); (5) Not currently available for production, with manufacturing capability planned for 2031–2032



Company Introduction

Founded in 1916 in Aosta, Italy, **Cogne Acciai Speciali (CAS)** is a leading producer of premium stainless steels and nickel-based alloys for demanding industrial applications. Over more than a century of growth and innovation, the company has developed extensive expertise in the production of high-quality long products, including billets, ingots, bars, and wire rod for critical sectors such as aerospace and defense. In 2022, CAS became **part of the Walsin Lihwa Group** allowing the company to leverage an integrated manufacturing platform, a wide range of quality products, and a global support network.

Today, CAS is recognized as a trusted partner for aerospace and defence manufacturers, supplying materials and engineered solutions that meet the highest standards of performance and reliability. The company holds **NADCAP** accreditations for selected special processes and maintains numerous OEMs' approvals for products manufactured to customer-specific requirements.



Aerospace Differentiators



Integrated Metallurgy Processing

Fully integrated production capabilities include EAF and VIM melting, ESR and VAR remelting, radial and press forging, hot rolling, cold finishing, peeling, drawing, grinding, and heat treatment



Risk Mitigation Through Vertical Integration

Intra-group raw material sourcing and independent manufacturing sites provide enhanced supply security and operational resilience



Advanced Testing & Accreditation

Advanced inspection technologies and certified non-destructive testing processes ensure the integrity, reliability, and traceability required for the most critical aerospace applications



Flexible Supply Solutions

Global distribution network and responsive production planning

Capabilities

Primary Melting

- 1x UHP EAF (90t)
- 1x AOD Converter (80t)
- 1x RH Degassing (80t)
- Continuous Casting Unit (4 Strands: Billets 160x160 mm; Blooms 220x270 mm or 280x340 mm)

Forging & Rolling

- 1x Fast-Acting Press (3kt)
- 1x Push-Down Oleodynamic Press (5kt)
- 1x Pull-Down Oleodynamic Press (2kt)
- 1x GFM SXP 40 Hammer Machine
- Integrated Bar & Wire Rolling Mill (Bars 27-105 mm; Wire Rods 5.5-32 mm) Plus Heat Treatment Furnaces & Pickling Unit
- Blooming $\varnothing$ 950/650

Special Processes

- NADCAP
 - Heat Treatment in Accordance with AMS-H-6875, AMS 2761, and AMS 2759/3
 - Ultrasonic Inspection AMS-STD2154 up to Class AAA Internal Level 3
- IIAC ISO 17025
 - Chemical Composition and Mechanical Testing

Secondary Remelting

- 3x ESRs (up to 35t)
- 2x VARs (up to 25t)

Cold Finishing

- Peeling/Turning Machines
- Coil to Coil Peeling/Turning Machines
- Drawing Machines
- Centerless Grinding Machines

Qualification & Certifications



AEROSPACE PORTFOLIO

Key Grades

Steel Family	AMS	AISI	W. Nr. ⁽²⁾	UNS
Austenitic	5640	303	1.4305	S30300
	5639	304	1.4301	S30400
	5647	304L	1.4307	S30403
	5651	310	1.4841 1.4845	S31000 S31008
	5648	316	1.4401	S31600
	5653	316L	1.4404	S31603
	5645	321	1.4541 1.4544	S32100 S32109
	5646	347 347H	1.4550 1.4546	S34700 S34709
Martensitic	5612	XM-30	1.4024	S41040
	5613	410	1.4006	S41000
	5719	M152	1.4939	S64152
		415M	1.4418	
	5610	416	1.4005	S41600
	5628	431	1.4057	S43100
		FV535 H46	1.4911 1.4914	
Precipitation Hardening	5659	15-5PH	1.4545	S15500
	5643 5622	17-4PH	1.4542 1.4548	S17400
	5629 5934	13-8 Mo	1.4534	S13800
	5731			
	5732	660	1.4980	S66286
	5734	A286	1.4944	
	5737			
	5936	C465		S46500
Maraging Steel	6512	C250	1.6359	K92890
	6514	C300	1.6358	K93120
	6515	C350	1.6356	K93160

Steel Family	AMS	AISI	W. Nr. ⁽²⁾	UNS
Bearing Steel	5630	440C	1.4125	S44004
	6278	M50NiL	1.3559	K91231
	6490 6491	M50	1.3551	T11350
		H18 H21		T20818 T20821
Low Alloy Steel	6414 6415	4340	1.6582	G43400
	6265	9310	1.6657	G93100
	6411	4330	1.6565	K23080
	6417 6419	300M	1.6928	K44220
		HCM3 ⁽³⁾ SCMV ⁽³⁾ PWA36280 ⁽⁴⁾ CMV ⁽³⁾ HCM5 ⁽³⁾ HYKRO ⁽³⁾		
	6308	X53		
	6481	E32CDV13		
	5662 5663	718 DM/TM ⁽⁵⁾	2.4668	N07718
Nickel Alloy	5441	718 Plus		N07818
	5706 5707	Waspaloy®	2.4654	N07001
	5666	625	2.4856	N06625
		716		N07716
		720		N07720
		725		N07725
		925		N09925
	5872 5886	C263	2.4650	N07263
		907		N19907
		909		N19909
		PE16		
	5712 5713	Rene41	2.4973	N07041
	5803	Rene65		N07065

Product Dimensions

Form	Diameter (mm)		Length (m)		Weight (tonne)	
	Min	Max	Min	Max	Min	Max
Round Bars	4.0	600.0	2	7	N/A	N/A
Wire Rods	5.0	31.5	N/A	N/A	N/A	N/A
Ingots	N/A	N/A	N/A	N/A	3.6	79.0
Forged Bars	110.0	1,200.0	N/A	N/A	N/A	N/A

Notes: (1) Heat Treating and NonDestructive Testing (Ultrasonic Testing); (2) Werkstoffnummer (German Material Number); (3) Rolls-Royce; (4) Pratt & Whitney; (5) Double Melted/Triple Melted

Walsin

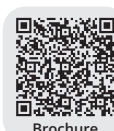
**SPECIAL
MELTED
PRODUCTS**

DMV

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Website



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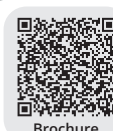
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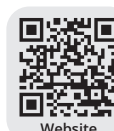
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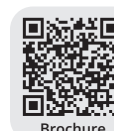
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Website



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Company Introduction

In 1842, **Special Melted Products (SMP)** began with metallurgical roots in **Sheffield, UK** - the birthplace of stainless steel, and is a global leader of speciality steel and nickel-based superalloys for use in the aerospace industry and notably for **critical rotating mainline engine shafts**. SMP produces ingots, blooms, billets, forged bars, semi-finished shafts, and engineered products. In 2023, SMP became **part of the Walsin Lihwa Group** allowing the company to leverage an integrated manufacturing platform, a wide range of quality products, and a global support network.

SMP is a trusted supplier of high integrity alloys for aerospace and defense applications. In addition to the **AS9100D certification** and **NADCAP accreditation**, SMP also maintains **OEM accreditation** for products requiring custom specifications. SMP's capabilities include primary VIM and VIDP melting, VAR and ESR remelting, radial and press forging, heat treatment, machining, non-destructive testing, and advanced inspection. SMP delivers complete engineered solutions as a single source supplier for leading aerospace OEMs and supply chain partners.



Aerospace Differentiators



Metallurgical Heritage

More than 180 years of materials expertise supporting critical applications, including aerospace



Vertically Integrated Manufacturing

Seamless coordination from melting to semi-finished products under one company



Technical Expertise & In-House R&D

Dedicated metallurgical knowledge supporting qualification and application development



Global Aerospace Supply

Supporting leading aerospace OEMs and supply chain partners worldwide



Trusted Quality & Industry Accreditations

Extensive customer approvals and aerospace qualifications supporting critical applications



Passionate People & Partnerships

Dedicated teams fostering long-term customer relationships through expertise and collaboration

Capabilities & Products

Primary Melting

- 3x VIMs (500 kg to 18t) ⁽¹⁾
- 1x VIDP (6t)

Forging & Processing

- 1x Forging Press (7kt) ⁽¹⁾
- 1x GFM SXP-65 Radial Forge

Secondary Remelting

- 7x VARs (up to 20t) ⁽¹⁾
- 4x ESRs (up to 20t) ⁽¹⁾

Precision Machining

- Deep Hole Boring (up to 10m)
- Lathe Turning (up to 10m) with Live Tooling Capability
- Large Capacity CNC Lathe (up to 1m diameter)



▲ Ingots & Blooms



▲ Billets & Forged Bars



▲ Semi-finished Shafts



▲ Fully Machined Engineered Components

Qualification & Certifications



Key Grades

Steel Family	AMS	AISI	W. Nr. ⁽³⁾	UNS
Austenitic	5639	304	1.4301	S30400
	5647	304L	1.4307	S30403
	5648	316	1.4401	S31600
	5653	316L	1.4404	S31603
Martensitic	5613	410	1.4006	S41000
	5612	XM-30	1.4024	S41040
	5628	431	1.4057	S43100
Precipitation Hardening	5659	15-5PH	1.4545	S15500
	5643	17-4PH	1.4542	S17400
	5622			
	5629	13-8PH	1.4534	S13800
	5934			
	5731			
	5732	A286	1.4944	S66286
Maraging Steel	5936	C465		S46500
	6512	C250	1.6359	K92890
	6514	C300	1.6358	K93120
Bearing Steel	6515	C350	1.6356	K93160
	5630	440C	1.4125	S44004
	6278	M50NIL	1.3559	K91231
	6490	M50	1.3551	T11350
	6491			
		H18		T20818
		H21		T20821

Steel Family	AMS	AISI	W. Nr. ⁽³⁾	UNS
Low Alloy Steel	6414	4340	1.6582	G43400
	6415			
	6265	9310	1.6657	G93100
	6411	4330	1.6565	K23080
	6417	300M	1.6928	K44220
	6419			
		HCM3 ⁽⁴⁾		
		SCMV ⁽⁴⁾		
		PWA36280 ⁽⁵⁾		
Nickel Alloy		CMV ⁽⁴⁾		
		HCM5 ⁽⁴⁾		
		HYKRO ⁽⁴⁾		
	6308	X53		K42544
	6481	E32CDV13		K24340
	5662	718 DM/TM ⁽⁶⁾	2.4668	N07718
	5663			
	5441	718 Plus		N07818
	5706	Waspaloy®	2.4654	N07001
	5707			
	5666	625	2.4856	N06625
		716		N07716
		720		N07720
	5872	C263	2.4650	N07263
	5886			
		907		N19907
		909		N19909
		PE16		N07016
	5712	Rene41	2.4973	N07041
	5713			
	5803	Rene65		N07065

Product Dimensions

Form	Diameter (mm)		Length (m)		Weight (tonne)	
	Min	Max	Min	Max	Min	Max
Ingots & Blooms ⁽⁷⁾	406	660	2	4	2	10
Billets & Forged Bars ⁽⁸⁾	95	355	3	10	1.5	7.5
Semi-finished Products	90	1,000	2	6	N/A	N/A

Notes: (1) Includes equipment commissioned by 2028; (2) Heat Treating, NonDestructive Testing, and Materials Testing Laboratories; (3) Werkstoffnummer (German Material Number); (4) Rolls-Royce; (5) Pratt & Whitney; (6) Double Melted/Triple Melted; (7) Standard ingot sizes include 406 mm, 508 mm, 610 mm, and 660 mm; (8) Cross-section may be rectangular or square

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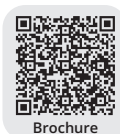

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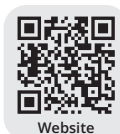
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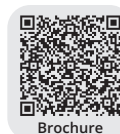
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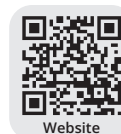
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Company Introduction

Founded on the pioneering seamless tube technology invented by the Mannesmann Brothers in 1886, DMV is a leading global manufacturer of seamless stainless steel and nickel-based alloy tubes and pipes. In 2024, DMV became **part of the Walsin Lihwa Group**, allowing the company to leverage an integrated manufacturing platform, a global production footprint and enhanced customer support network.

DMV is a trusted supplier of high-performance seamless tubes and components for critical aerospace and defense applications. With more than 40 years of aerospace experience, DMV provides advanced tube solutions for engine fuel systems, air bleed systems, heat exchangers, hydraulic and pneumatic systems, as well as structural and actuation applications. Its global manufacturing network **across Germany, France, Italy and the United States** supports aerospace customers with quality, flexibility and cost-effective solutions. DMV maintains global quality management systems with extensive customer approvals and aerospace certifications, including AS9100D.



Aerospace Differentiators



Tube Expertise & Innovation

More than a century of seamless tube manufacturing know-how and continuous product innovation



Flexibility & Rapid Response

Flexible production capabilities and short lead-time solutions for urgent customer requirements



Global Manufacturing, Local Service

Integrated production network across Europe and North America supporting worldwide customers



Quality & Customer Approvals

Global quality systems, aerospace approvals and extensive customer qualification experience

Capabilities

Tube Manufacturing

- Hot Extrusion
- Cold Pilgering
- Cold Drawing

Tube Finishing

- Precision Cutting
- End Preparation
- Machining
- Bending

Products

Applications

- Engine Fuel Systems, Air Bleed, Heat Exchangers & Hydraulic Controls
- Hydraulic & Pneumatic System Tubes & Components
- Structural, Mechanical Tubes & Components



Qualification & Certifications

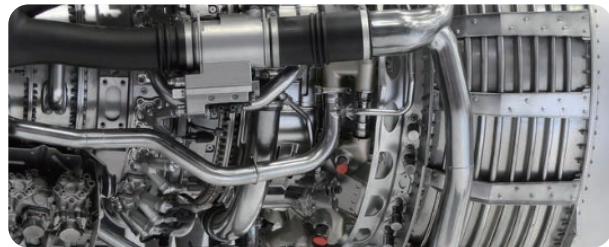


AEROSPACE PORTFOLIO



Key Grades

Steel Family	AMS	AISI	W. Nr. ⁽¹⁾	UNS
Austenitic	5564	304L	1.4306	S30403
	5570	321	1.4541	S32100
	5571	347	1.4550	S34700
	5573	316L	1.4404	S31603
	5561	21-6-9		S21900
Precipitation Hardening	5643	17-4PH	1.4542	S17400
Nickel Alloy	5580	600	2.4816	N06600
	5581	625	2.4856	N06625
		C263	2.4650	N07263
	5589	718	2.4668	N07718
		Alloy 188	2.4683	R30188
		Alloy 230	2.4733	N06230
	ASTM B161	Ni 200	2.4066	N02200



Product Dimensions

Form	Outer Diameter (mm)				Wall Thickness (mm)			
	Cold Finished		Hot Finished		Cold Finished		Hot Finished	
	Min	Max	Min	Max	Min	Max	Min	Max
Engine Tubes	1.6	38.1	N/A	N/A	0.1	11.0	N/A	N/A
Airframe Tubes	1.6	51.0	N/A	N/A	0.1	14.4	N/A	N/A
Structural & Actuation Tubes	6.0	280.0	32.0	280.0	0.2	14.4	2.8	60.0

Notes: (1) Werkstoffnummer (German Material Number)

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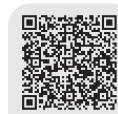


Brochure

COGNE



Website

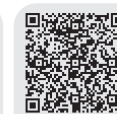


Brochure

SPECIAL MELTED PRODUCTS

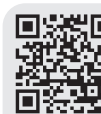


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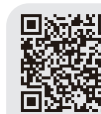


Brochure

AML



Website



Brochure



www.walsin.com

WALSIN LIHWA

Company Introduction

Founded in 2008 as a spin-out from the University of Sheffield Advanced Manufacturing Research Centre (AMRC), **Advanced Manufacturing (AML)** is a technology-led advanced manufacturing company specializing in precision machining solutions for aerospace, defense, energy and nuclear applications. In 2025, AML became **part of the Walsin Lihwa Group**, allowing the company to leverage an integrated manufacturing platform, expanded engineering resources and a global support network.

AML is a trusted supplier of high-performance precision machined components for critical aerospace applications. Its advanced manufacturing capabilities include 5-axis mill-turn machining, adaptive machining strategies, metrology, inspection and supply chain integration services. With extensive experience machining titanium, nickel-based superalloys, stainless steels and aluminum alloys, AML delivers complex aerospace components including aerofoils, bearings, gears, casings, blisks and mainline shafts for leading aerospace OEMs and supply chain partners.



Aerospace Differentiators



Aerospace Material Expertise

Extensive machining experience in titanium, nickel-based superalloys, stainless steels and aluminum alloys



Research & Technology (R&T) Innovation

Continuous investment in R&T to develop next-generation machining technologies



Qualification & Process Support

Established laboratory partnerships supporting process qualification and customer approvals



Adaptive Machining & Precision Manufacturing

Advanced machining strategies delivering tight tolerances and complex geometries in partners worldwide



Aerospace Quality & Delivery Excellence

Robust quality systems supporting critical aerospace programs worldwide



Engineering Services

Dedicated engineering support in CAD/CAM, process development and manufacturing optimization

Capabilities

Precision Machining & Metrology

- 30+ DMG Mori 5-axis Mill/Turn Centres
- Gear Capability (Curvic Coupling and Spline)
- Root Slot Milling / Broaching
- Machine Dynamics Control
- Grinding
- Established Supply Chain for Special Processes
- Forging / Material Supply Chain Integration
- Coordinate Measuring Machines (CMM)
- Optical Scanning Equipment
- Adaptive Machining Technologies

Digital Manufacturing

- Fully Integrated Digital Factory
- Real Time Digital Thread Controlling MRP, Machine Monitoring and Supply Chain Control
- AI Integrated Models for Optimised Delivery
- Digital Twin Techniques for Complex Machining Challenges
- NX CAD/CAM
- Vericut Process Simulation

Component Assembly

- Bonding Capability (in Controlled Environments)



Qualification & Certifications



AEROSPACE PORTFOLIO

Product Dimensions



Machined Components	Diameter (mm)		Length (mm)		Weight (tonne)	
	Min	Max	Min	Max	Min	Max
Mainline Shaft	60	1,070	500	6,000	N/A	7
Disc / Blisk / Casing	300	1,600	100	500	N/A	4
Aerofoil	N/A	N/A	50	1,500	N/A	5

Product Applications



▲ Mainline Shaft



▲ Disc



▲ Blisk



▲ Casing



▲ Aerofoil



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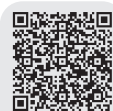


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COGNE



Website

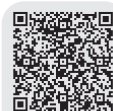


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