



SeAH Aerospace & Defense

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ALUMINUM ALLOYS

EXTRUDED RODS & BARS,
PIPES & TUBES, PROFILES,
COLD FINISHED RODS & BARS



SeAH Aerospace & Defense

Technological innovation
Creating a better world
with valuable products

It is the consistent
goal of SeAH A&D.

SeAH A&D leaps as Global Leader in Aluminum Field - From automotive, semiconductor, and power generation high-tech industries to aerospace, defense, and renewable energy future industries. Our unwavering goal is to be the key player in the new future with Aluminum.

Looking forward to the future that SeAH A&D will create.



History

With Cutting-edge Technologies

- 1945** Founded in South Korea as Shiheung Industries
- 1973** Designated as defense contractor
- 1997** Renamed to Dooray Air Metals
- 2002** Acquired by Alcoa Inc.
- 2016** Renamed to Arconic Korea
- 2019** Acquired by SeAH on Oct. 2019
- 2020** Re-established as SeAH Aerospace & Defense

Certifications



Quality Management System
EN AS 9100:2018



Quality Management System
IATF 16949:2016



Certificate of Approval
ISO 14001:2015



Certificate of Approval
ISO 45001:2018



Nadcap Certificate
Heat Treating



Nadcap Certificate
Materials Testing
Laboratories

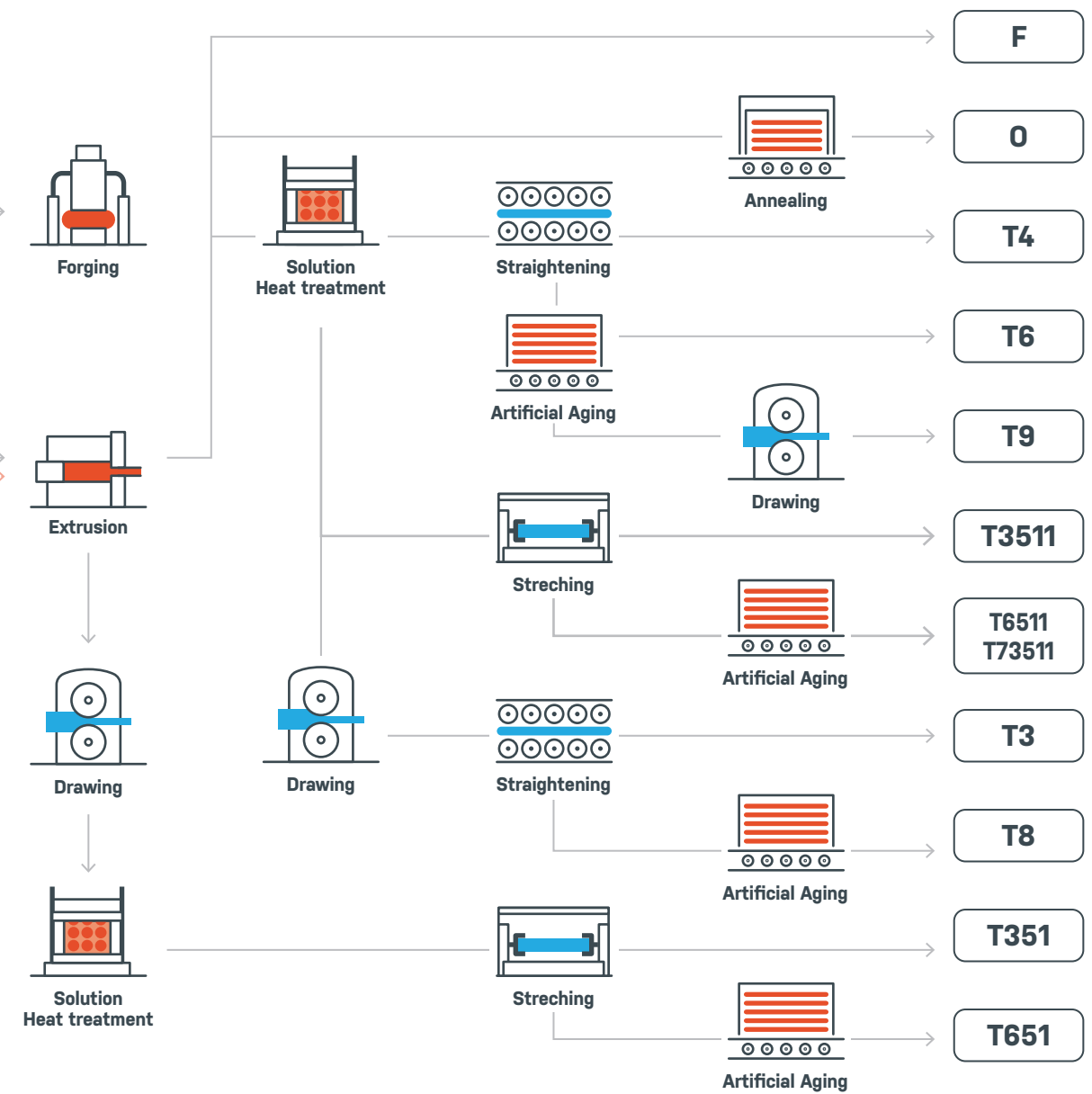
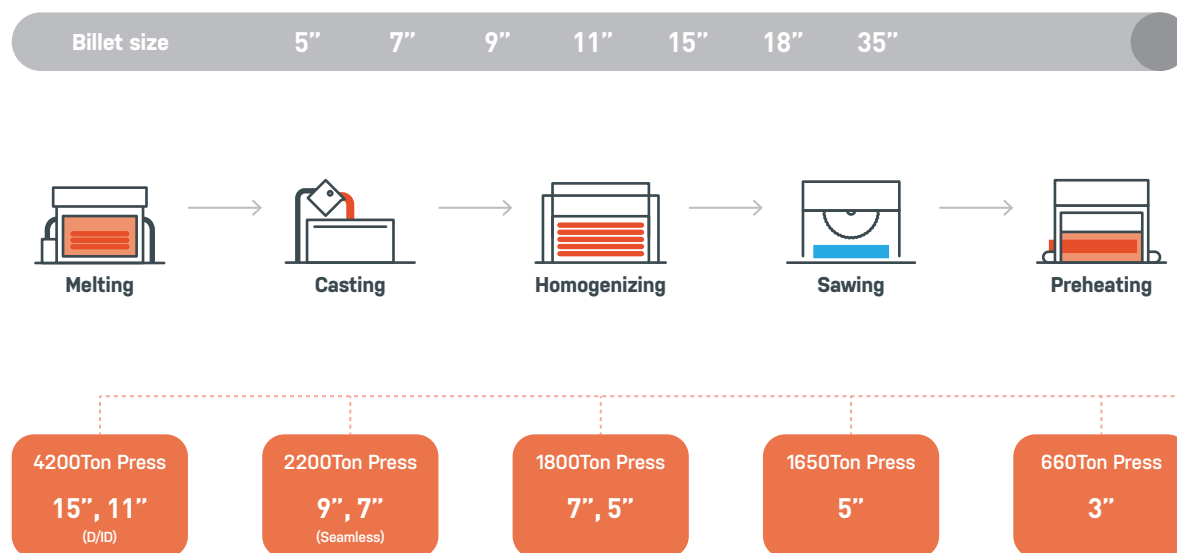


Nadcap Certificate
NonDestructive
Testing

Process & Equipment

SeAH Aerospace & Defense is capable of meeting customer requirements for extruded/forged high-strength alloys products and produces the most diverse kinds of alloy products in Korea.

We deliver a high quality of products to the worldwide market with the technology capable of producing the most diverse alloy products by possessing integrated in-house manufacturing processes from melting through testing.



MELTING



CASTING



EXTRUSION



HEAT TREATMENT



Alloys

- Excalibar
6013
- Toolrite
2011
- Deltalloy
4032
- UltraAlloy
6020

1XXX	1050	1050	1050	1050	1050
2XXX	2007	2011	2012	2014	2014A
	2017	2024	2026	2214	2219
	2618	2618A			
3XXX	3003				
4XXX	4032	AHS1	AHS2	A332	A356
	AP2	4045			
5XXX	5052	5056	5083	5086	5AAA
	5356	5454	5456		
6XXX	6005	6013	6020	6026	6042
	6061	6063	6066	6070	6082
	6101	6106	6262	6262A	6351
7XXX	7001	7003	7010	7050	7055
	7068	7075	7085	7129	7150
	7175	7474	TH72M	CE75	CE76

*CE75, CE76 - Specially designed for consumer electronics

Temper

Non-Heat Treated	F
	H111, H112, H32, H34
Heat Treated	O
	T3, T351, T3510, T3511
	T4, T4(BD), T451, T4510, T4511
	T5
	T6, T6(BD), T62, T651, T6510, T6511
	T7, T73, T7351, T73510, T73511, T76, T76510, T76511
	T8, T81, T851, T8510, T8511
	T9

*ASTM, SMS Standard specification quality assurance available

Comparative Characteristics of Related Alloys / Tempers





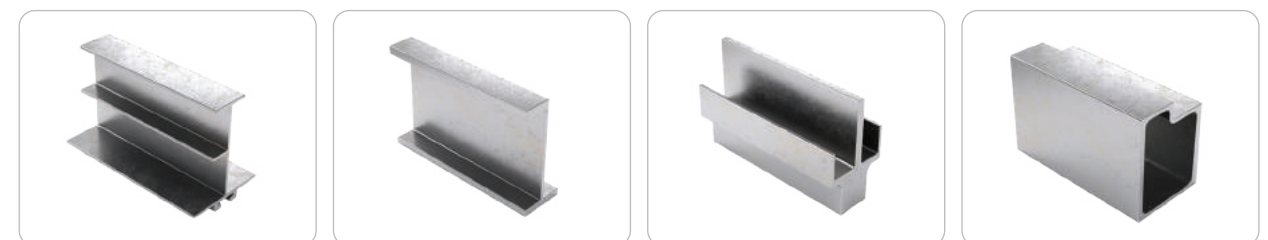
Aerospace

Capabilities	Description
Cross section	30 - 9,000mm ²
Circle size	Up to 11.73"
Wall Thickness min.	0.050"
Thick to thin ratio	4:1
Heat Treatment (T,O)	393" Max cut length
Alloy - Tempers	2xxx Series (2014, 2024, 2219) - T3, T42, T3510, T3511, T81, T8510, T8511, O 7xxx Series (7050, 7075, 7150, 7175) - T6, T62, T6510, T6511, T73, T73510, T73511, O
Rod (Heat treated)	0.750" - 5.740"
Bar (Heat treated)	0.250" - 3.200" Max Thickness 0.750" - 8.000" Width
Forging stock	1.000" - 5.740"

Quality System Approval
<ul style="list-style-type: none"> AS9100 & ISO9001:2000 Quality management system NADCAP Heat treating, Material testing lab, Non destructive testing ISO14001 & OHSAS18001 Environmental, Health & Safety management system

Selective Customer Approval	Date
BOEING D1-4426 (2024, 7075 - Billet, Extrusion) NDT(UT-BAC5439, BSS7052/7055 and Level 3(NAS410)	1996. 10
EMBRAER Specification MP 1.1.002(PE 11002-27) Shape Extruded 2024-T3511, 7050-T76511/6061-T6511	2004. 11
COMAC 2024-T3511/O: QQ-A-200/3, AMS4154 2024-T351: QQ-A-225/6, AMS4120 7075-T6/T6511/T73511: QQ-A-200/11, AMS4154/4617	2021. 09
LOCKHEED MARTIN MIL-I-45208A, MIL-STD-1535(Tailored) NDTS 1500/1501/1502	1995. 09
BELL HELICOPTER BPS 4543 : EXTRUSION ALUMINUM ALLOYS BPS 4453 : CONDUCTIVITY INSPECTION BPS 4139 : Heat Treatment of Aluminum Alloy2000/7000	1993. 11
CESSENA AIRCRAFT Quality Assurance System	1996. 08
FALCON AEROSPACE Quality System	2000. 02
Westland Helicopters 05L-Al Extruded Bar Products Bar, Rod & Shapes 05N-Al Extruded Tube	2008. 07
TRW Space & Electronics Q-Clauses/Specifications : MIL-I-45208A and QSA-9002	2000. 05

*Over 10,000 dies for Aerospace profile shape and designs



Defense

Capabilities	Size	Note
Rod & Bar	Up to 146mm(5.740")	Up to 16,742mm ² (25.95in ²)
Profile including seamless tube	Extruded fin tube through Seamless extrusion up to 152mm	60MM Mortar ammunition 81MM Mortar ammunition 120MM Mortar ammunition

Alloys	Application for Specialized Purpose
2014	Forging stock for wheel
2024	Fuse component for high explosive mortars
2219	Extruded rod/bar and profile for armored vehicles
5083, 5086, 5454, 5456	Extruded profile for military vessel
6061	Profile for military related component
7075, 7175	Extrusion rod and bar including forging stock Slewing bearing forged ring for armored vehicle (Diameter 800 - 2,000mm) Special integrated motor tube through flow forming



Industrial

Customized alloys :TH72M, C23B, 6061T, etc.
Bespoke alloys when customers have special requirements

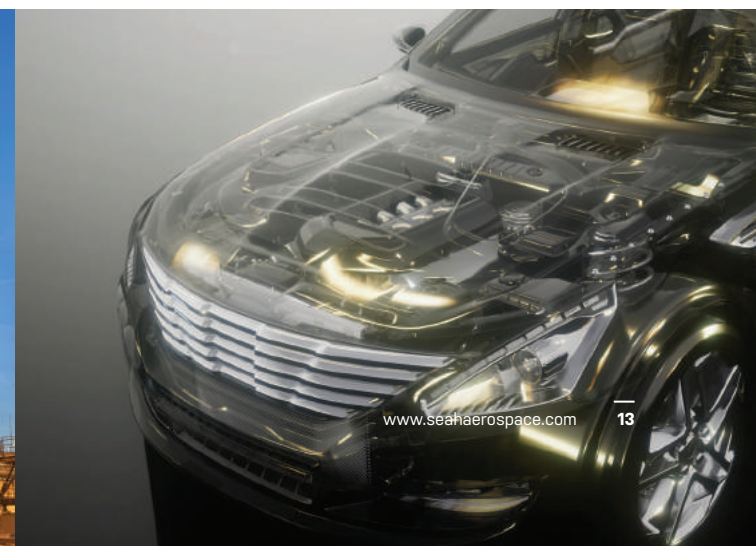
Capabilities	Alloys	Temper	Size	Specification
Extruded	2XXX	F	Up to 146mm (5.740") {Area 16,742mm ² }	ASTM AMS EN KS JIS
	6XXX	T4, T5, T6		
	7XXX	Tx510, Tx511		
Cold Finished (Drawn)	2XXX	T3, T8, T9	Up to 63.5mm (2.500")	ASTM AMS EN KS JIS
	6XXX	Tx51		
	7XXX			



Automotive

Quality Management System: IATF 16949

Alloys	Application	Feature
2618	Turbo Charger compressor Impeller wheel	Free Machining
2012, 6020, 6013	ROHS&ELV	Low lead or Lead free
4032	Piston	Wear Resistance
6061, 6082	Structural Profile / Chassis / Hydrogen Tank Lead	Formability



Driven by the passion of
the world's leading experts in
aluminum extrusion

SeAH Aerospace & Defense

Aluminum Alloys

Extruded Rods & Bars, Pipes & Tubes, Profiles,
Cold finished Rods & Bars.

