SEWOO

A Group, the Leader in South Korea specialized in Tubing & Welding for Aerospace & Defense

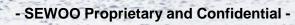
The Future of Aerospace

- SEWOO Proprietary and Confidential -



SEWOO

01 IDENTITY





#1 GROUP



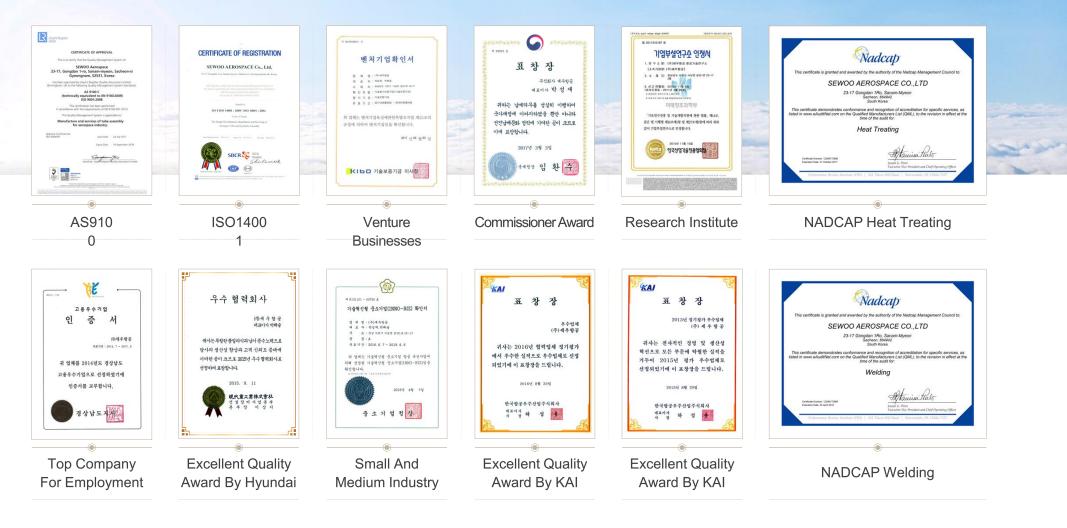
#2 MARKET

TUBING, WELDING FOR

5



#3 CERTIFICATES





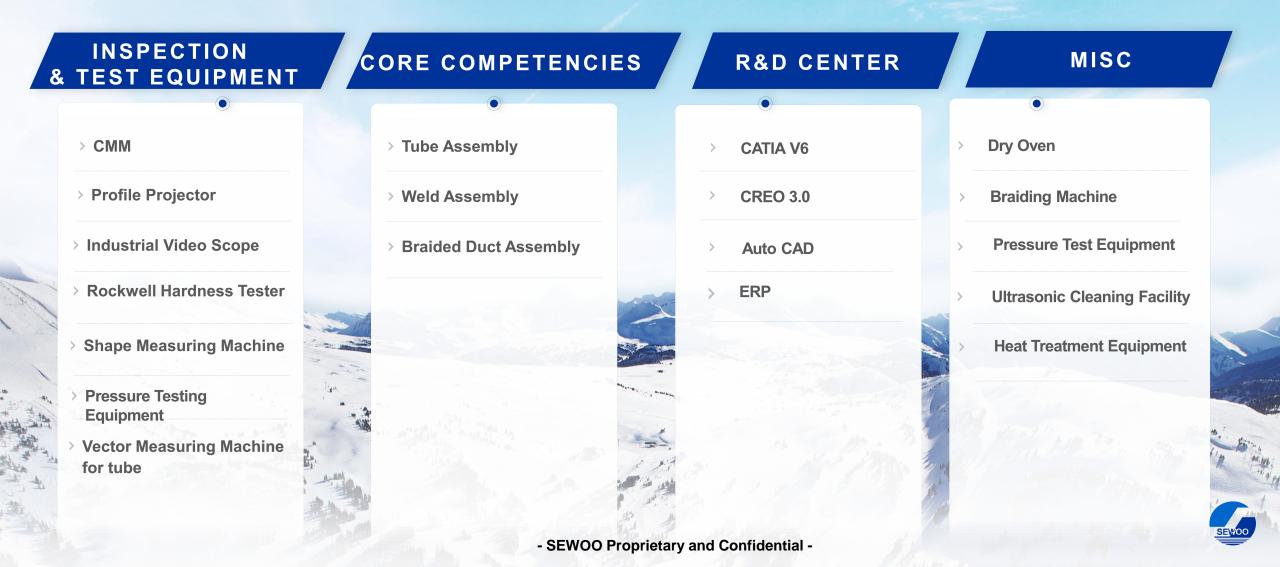
02 ASSETS

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#4 INDUSTRIAL CAPABILITIES

BENDING	SWAGING	END FORMING	WELDING
۲			
CNC Bending	> Dyna Tube Fitting	Cut & Trim	> Bend Saw
Machine	Swaging Machine	Machine	Belt Sander
Manual Bending Machine	^{>} Wiggins Ferrule Swaging Machine	Double Flare Machine	 Filler Storage Cabinet
 Coil Bending Machine 	Flareless Sleeve Swaging Machine	 End Forming Machine (Flare, Bead, Trim) 	, Titanium Welding Chamber
			Automatic TIG Welding Machine
			Manual Welding Machine
		the second second	

#4 INDUSTRIAL CAPABILITIES



#5 PRODUCTION CAPACILITY

IN HOUSE

- > Braiding
- > Cleaning
- > Cut & Trim
- > Tube Bending

Internal Swaging

- > External Swaging
- > Proof Pressure Test
- > Heat Treatment NADCAP Certified
 - Aluminum

Welding(GTAW) – NADCAP Certified



Coating <

OUT SOURCE

Machining <

Surface Treatment <

Heat Treatment <

Steel ·

Stanless Steel •

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#6 FREE CAPACITY

Free Machine Capacity -> 33%? Shop Floor Available -> 15%?

Investments are planned New Investments can be secured w New Business contract

#7 TECHNICAL CAPABIL

Production & Personnel status

✓ Our company's has production capability for aircraft detailed parts, and subassembly

✓ Quality Management is Key within Sewoo Aerospace

Our Experts have 15 years of experiences, receive yearly training and accreditations
 Team knowledge & expertise are yearly monitored & scored

#8 TECHNOLOGIES

. Aircraft /Aerospace tubing assembly



Hydraulic lines / Fuel lines
Environment control system lines
Conduit for wire hamess



Aircraft / Aerospace hot air duct assembly



TUBE WELDING INSULATION BRAIDING BENDING APPLICATION

Hydraulic lines
 Fuel lines
 Environment control system
 Conduit for wire harness



Engine assembly & Clustering

High pressure pipe line - 75Ton Fuel & Lox CC line - 75Ton Fuel & Lox GG line - 7Ton Fuel & Lox CC line - 7Ton Fuel & Lox GG line

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#9 RAW MATERIAL

o Materials Specified by Customerso CBOL Corporation

- Corrosion resistant steel (CRES)
- Aluminum
- Titanium
- Inconel

o California Material & Supply

- Corrosion resistant steel (CRES)
- Steel
- Aluminum
- o Weve Metal Co.
- Stainless steel super duplex



01 | FIGHTER AIRCRAFT T-50 FAMILY

 CUSTOMER : KAI
 Tube Assembly Weld Assembly
 FUNCTION : Hydraulic Line, Fuel Line Air Duct Braiding Assembly Environment Control System Duct Assembly Conduit For Wire Harness Crew Ladder Welding Assembly Spoiler Beam Welding Assembly

PRODUCTION PERIOD

: 2007 To Present

- SEWOO Proprietary and Confidential -

F

003 ×AI

G= RON AIR FORCE

90900

Golden Eagle

JE

02 KOREAN UTILITY HELICOPTERS(KUH)

R CUSTOMER

PRODUCT

: KAI

: Tube Assembly Weld Assembly

-SEWOO Proprietary and Confidential

% FUNCTION

: Hydraulic Line Fuel Line Crew Ladder Welding Assembly Air Duct Braiding Assembly

PRODUCTION PERIOD

: 2011 To Present



04 | TRAINER AIRCRAFT KT-1

- **R** CUSTOMER
- PRODUCT

: KAI

: Tube Assembly Weld Assembly

% FUNCTION

: Hydraulic Line Fuel Line Environment Control System Duct Assembly

PRODUCTION PERIOD

: 2007 To Present

SREWER.

.

6

787-9

05 | BOEING B787

 R
 CUSTOMER
 Image: Organization of the second secon

Structural Part

PRODUCTION PERIOD

: 2007 To Present

	-
 	-
	Conception of the local division of the loca

11111111111

- SEWOO Proprietary and Confidential -

A BOEING

06 | UAV

- 🔉 CUSTOMER 🛛 🗐 PRODUCT
 - : KAI KAL

: Tube Assembly Weld Assembly

% FUNCTION

: Hydraulic Line Fuel Line

PRODUCTION PERIOD

: 2014 To Present

07 K-9 SELF-PROPELLED ARTILLERY

A CUSTOMER

PRODUCT

: Hyundai-Wia

: Tube Assembly Weld Assembly

% FUNCTION

: Hydraulic Line, Fuel Line

PRODUCTION PERIOD

: 2013 To Present

- SEWOO Proprietary and Confidential

08 KOREA SPACE LAUNCH VEHICLE II

R CUSTOMER

: KARI

PRODUCT

: 75Ton Engine CC Fuel/LOX Pipe Assembly 75Ton Engine CC Fuel/LOX Pipe Assembly 7Ton Engine CC Fuel/LOX Pipe Assembly 7Ton Engine CC Fuel/LOX Pipe Assembly

% FUNCTION

: Fuel/LOX High Pressure Pipe Line

PRODUCTION PERIOD

: 2016 To Present

#11 CUSTOMERS

Direct

Korea Aerospace Industries (KAI)

Volvo Korea (For Construction Equipment)

HANWHA Aerospace



- [>] Boeing Through KAI, ASTK
- Sukhoi Civil Aircraft Through SAMCO
- Korea Aerospace Research Institute (KARI)
- Korean Air Lines (KAL) Through HANWHA Machinery



#12 PERFORMANCES

5 Key Operational Metrics



04 STRATEGY



SEWOO

#13 STRENGHTS AND BENEFITS TO CUSTOMERS

01		02	03	04	05
Advanced Tube Bending Technology Proven By KAI As 1st Tier Supplier		Solid Financial Structure	Excellent Quality Management	Strong Management Commitment For Business Expansion	Specialized Tube & Duct Welding For Aerospace Purpose
 Equipped Advanced Tube Bending System CNC Bender & 	>	Strong Financial Support through C.E Business	 Excellent Quality Awarded For 4 Consecutive Years By KAI 	 Continued Investment For Process Improvement 	 GTAW For Aluminum, Stainless Steel, Titanium And Nickel Alloy
Measuring Machines Various Swaging	>	Equipment owned by Sewoo	 Skilled & Quality controlled Labor 	 Consistent Pursuit Of Tubing & Welding Specialty 	 NADCAP Certified Welding & Heat Treatment Process
& End Forming Machines				> International READY	> Delivered 100% Weld
 Delivered 100% Tube Assemblies To KAI For KF-16, T-50, KT-1, KUH 	emblies To KAI For		 Customization of Facility to Customer Requirements 	Assemblies to KAI For T-50, KT-1, KUH	
KF-16, T-50, KT-1, KUH		No.		Customer Requirements	

27

#13 STRENGHTS AND BENEFITS TO CUSTOMERS

06

Guaranteed Performances

Better Than Market Expectations In Terms Of :

Price (RC & NRC) Turn Around Time & On Time Deliveries Monitoring Responsiveness & Reactivity Respect Of Contractual Obligations Autonomous & Reliable 07

Cooperation / Offset

Export / Sourcing

Manufacturing Sub-contract Are Eligible For Offset

Internationally READY & Motivated & Enthusiastic to develop Long Term Partnership

- SEWOO Proprietary and Confidentia

#14 CORE VALUES

Message from the President & CEO

Respect for mankind is Sewoo's management philosophy. This philosophy has made true communication possible among the all employees which in turn creates high-quality products that gain the trust of our customers. Sewoo will continuously work to provide products that satisfy customers' expectation.

✓ Integrity
 ✓ Flawless Execution
 ✓ Commitment

✓ Autonomy
 ✓ Responsiveness
 ✓ Innovation

#15 VISION

Generation Best Global Hydraulic Pipe Partner



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#16 STRATEGICAL APPROACH

Potential Customer may be seeking for :

- Vertical Integration,
- Improve competitiveness for business development and sales,
- Performances of its supply chain,
- Competitive Price, Lead Time, Best Quality
- Do benchmarking.

Sewoo wishes to :

- Develop overseas business,
- Provide the best benefits to its customers,
- Join supply chain through Tier 1 & Tier 2 & Tiers 3

- Next steps Suggestions :
 - Provide additional information through RFI,
 - Supplier registration,
 - Sewoo will support Any sourcing opportunity through RFQ,
 - Visit our facility,
 - Technical Audit

#17 CONTACTS INFORMATION



SEWOO

Thank you so much

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