

# About Us

- ▶ Recap is autoclave manufacturer provides solutions with our professional team and wide experience.
- ▶ Established in 2017
- ▶ Operating in Eskisehir, Turkey for customer groups in Turkey and abroad
- ▶ Developing technology and faster solutions that are sought from customers is our driving force to our organisation.
- ▶ Autoclave manufacturing for the Glass Industry

# Recap

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## Profile

- ✓ DMI (Design Manufacture Install)
- ✓ Industrial Autoclaves
- ✓ Pressured Vessels
- ✓ Project Base Production
- ✓ Tailor-made Equipment

## Principles

- ✓ Delivery on time
- ✓ Investing in technology
- ✓ Teamwork
- ✓ Easy accessibility

# Recap

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- ✓ Factory 3,000 sqm
- ✓ Inert-gas welding
- ✓ Submerged-arc welding
- ✓ Crane 20 tons
- ✓ Located in industrial zone

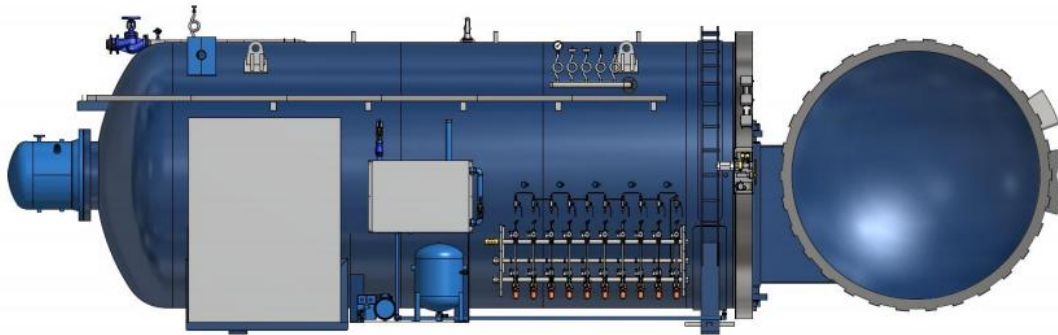
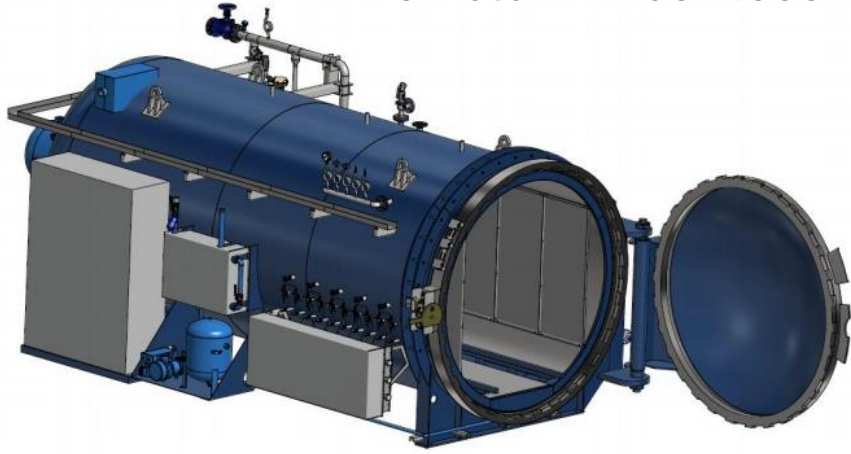




# GLASS LAMINATION AUTOCLAVES

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Pressure: 13-70 barg  
Temperature :140-400 °C  
Heating : Electrical  
Diameter: ID750-4000 mm



We manufacture autoclaves and pressured vessels in high standards for composites, glass, rubber, sterilization and retreading sectors.



# GLASS LAMINATION AUTOCLAVES

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# GLASS LAMINATION AUTOCLAVES

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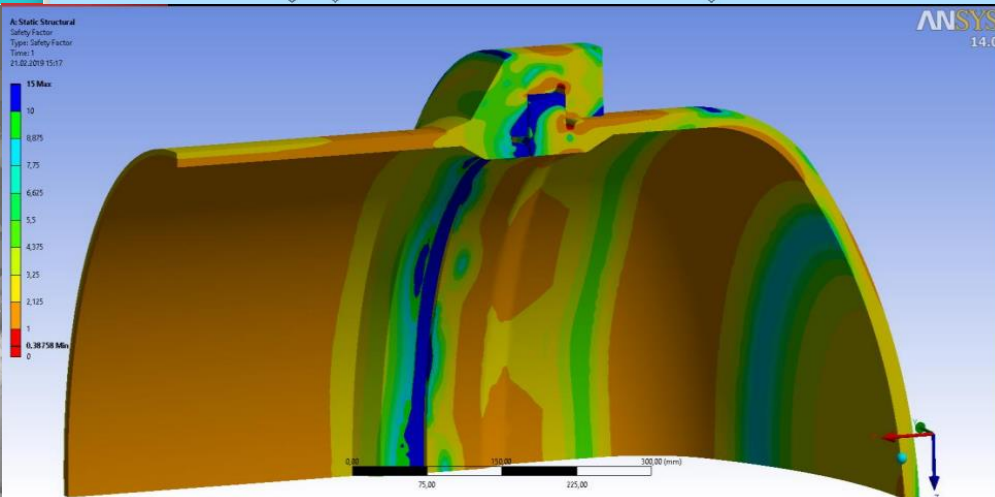
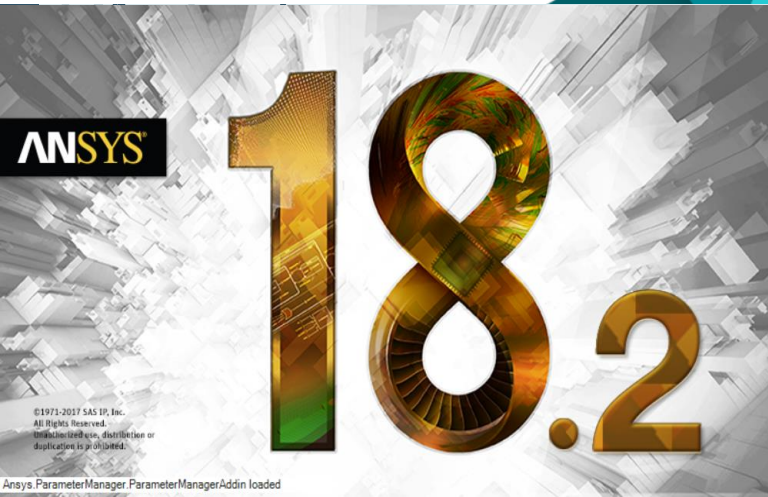
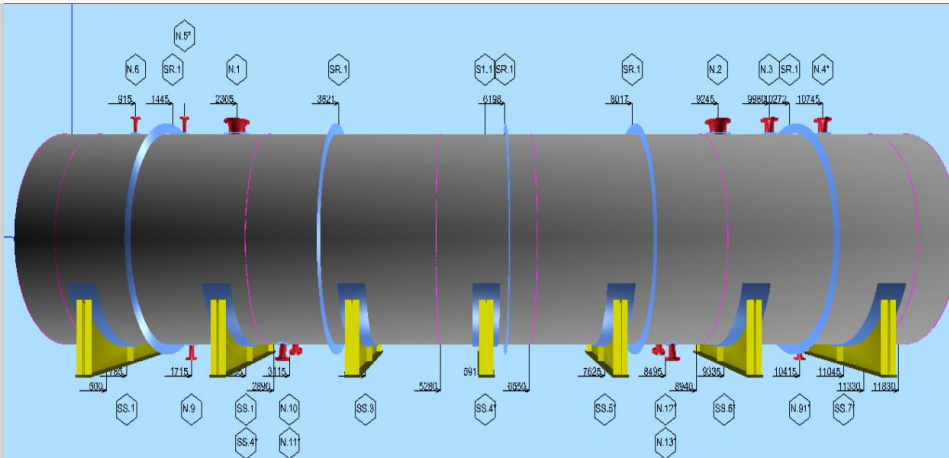
# AutoDesk Inventor for 2D and 3D Design Pv Elite-VVD for Pressure Vessel Calculation FEM Analysis for Structural-CFD Control HTRI for Heat Exchanger Design



Visual Vessel Design | 2019

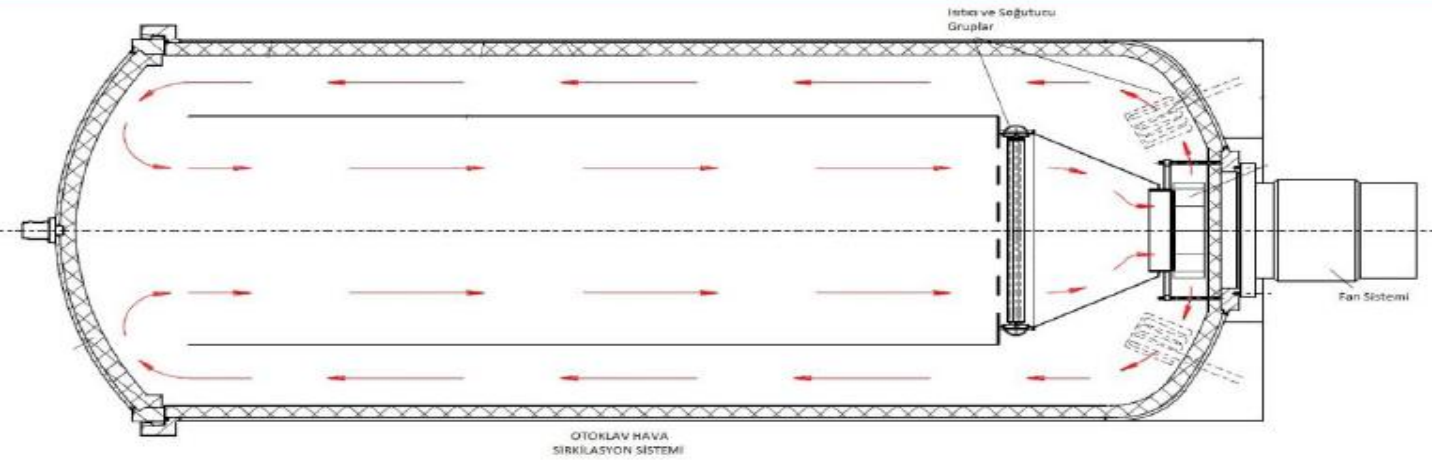
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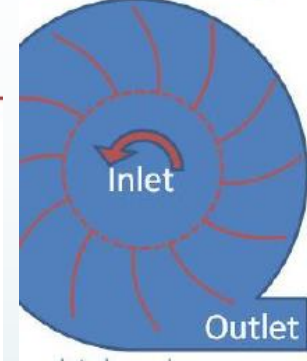
HTRI Xchanger Suite 6.0



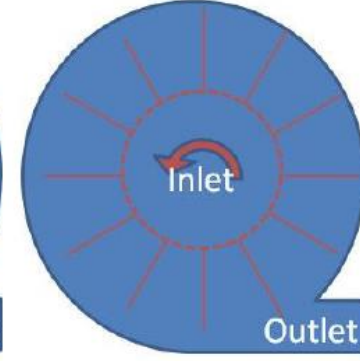


### Centrifugal Fans

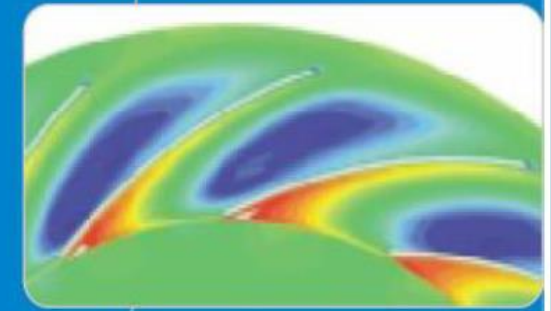
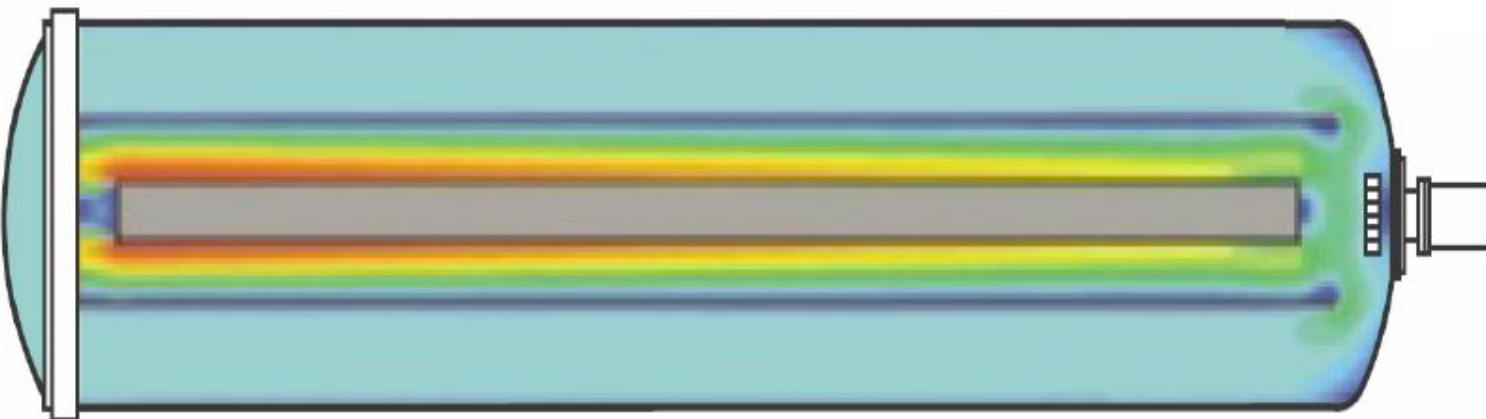
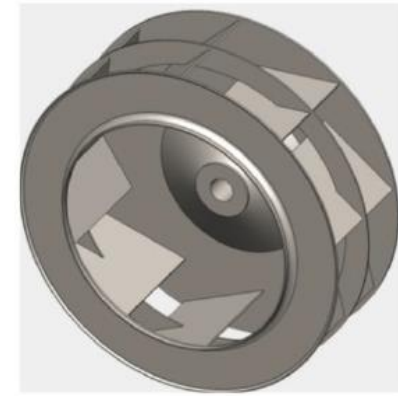
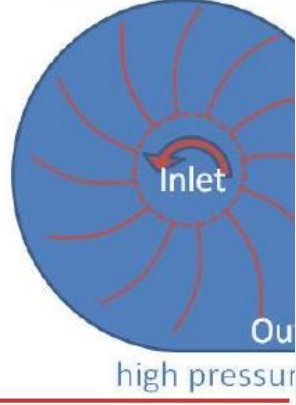
Forward Curving



Radial



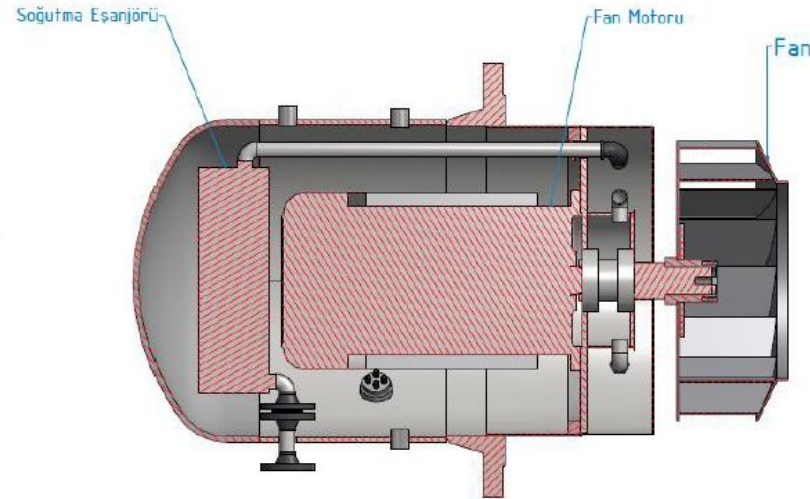
Backward Curving



# HTRI FOR HEAT EXCHANGER DESIGN



HTRI Xchanger Suite 6.0



Otoklav Hava Sirkilasyon Grubu



Design of Heating and Cooling Heat Exchanger



# CE Certification Process

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Third Party Control and Hydrostatic Testing  
for CE Declaration





### Konformitätsbescheinigung Certificate of Conformity

Modul G / module G  
Konformität auf der Grundlage einer Einzelprüfung  
Conformity based on unit verification  
gemäß Richtlinie 2014/68/EU / according to Directive 2014/68/EU

Bescheinigung Nr.: KOB-2018-TURK-480-17-IS-1142  
Certificate No.:

Hersteller / manufacturer: ReCap Makina Mühendislik İnşaat ve Turizm Sanayi Ticaret Limited Şirketi  
Fertigungsstätte / place of manufacture: 75.Yıl Mahallesi EMKO küme evleri 1-G1 Blok No:4 Odunpazarı/Eskişehir

Hiermit wird bescheinigt, dass die Ergebnisse der an dem unten genannten Druckgerät vorgenommenen Prüfungen die Anforderungen der Richtlinie 2014/68/EU erfüllen. Das Druckgerät ist mit der abgebildeten Kennzeichnung versehen.  
This is to certify that the results of the examination of the pressure equipment mentioned below meet the requirements of the directive 2014/68/EU. The pressure equipment carries the marking as illustrated.

CE 0408

Objekt: Druckbehälter / pressure vessel  
Benennung: RC810 Lastik Kaplama Otoklav / Tire Retreading Autoclave (ID1600x4500)  
Fabrik Nr.: 81017001  
Inspektionsbericht Nr.: 17-IS-1142-PED-IR-81017001

ISTANBUL 08.01.2017  
Ort / place: Datum / date:



TUV AUSTRIA SERVICES GMBH, Notified Body 0408  
Firmen-FC PED-0504  
Kontrollnummer: 123456789  
Revised: 08.01.2017  
Page 1/1

## CE CERTIFICATION

### GE-B-F Module

### EN13445-3

### 2014/68/EU Category 4

## EN ISO 3834-2 Manufacturing Welded Products Certification

## CERTIFICATE

TÜV Teknik Kontrol ve Belgelendirme A.Ş.

Quality requirements for fusion welding of metallic materials

### EN ISO 3834-2

Manufacturer/production facility: ReCap Makina Mühendislik İnşaat ve Turizm San. Tic. Ltd. Şti  
Kobi OSB 110 Cad. No:2 Eskişehir

Standard: EN ISO 3834-2  
Scope: Autoclave and Pressure Parts, Steam Boilers, Manufacture of Pressure Vessels, Pipes, Tanks, Modules and Skids, Mechanical Construction of Equipment and Installation of Industrial Plants, Turbine Components, Steel Winds Towers, Storage Tanks, Heat Exchanger

Certificate No: QS-TUVNORD-2021/4919  
Report No: RP-QS-TUVNORD-2021/4920  
Certificate start date: 3.12.2021  
Certificate expiry date: 2.12.2024

The company is using a quality assurance system, technical equipment, qualified personnel and procedures for joining processes for manufacturing and testing of welded products.

Istanbul, 3.12.2021  
See Annex 1  
Technical Manager: Behan ZURKACI  
TÜV Teknik Kontrol ve Belgelendirme A.Ş.

In case of continuous adherence to the requirements of the standard and certification agreement the certificate remains valid until the date specified above.

TÜV Teknik Kontrol ve Belgelendirme A.Ş.  
Sırt Mahallesi Fırat Çiftliği Sokak No:9 Kat:4 Oda:1006, Kızılay, 34142 Beşiktaş / İSTANBUL  
Telefon: +90 212 361 2084 Fax: +90 212 361 87 87 E-mail: tuv@tuv.com.tr



## CERTIFICATE

Recap Makina Mühendislik İnşaat ve Turizm Sanayi Ticaret Limited Şirketi

75. Yıl OSB Mah. 110. Cad. No:2 Odunpazarı ESKİŞEHİR / TURKEY

## ISO 9001:2015

Scope: Production and sales of pressure vessels, autoclaves, tyre retreading and medical waste sterilization machinery  
EA Code: 18-29

Hereby, AKSSERT Audit and Certification Ltd. Co., certifies that the above stated company gave the appropriate management system according to the requirements of the above standard. This certificate valid for 3 years since the decision date as long as the system is effectively maintained and surveillance audits are carried out. The validity of certificate can be checked through [www.aksert.com.tr](http://www.aksert.com.tr). The Certificate is property of AKSSERT Audit and Certification Ltd. Co. and shall be returned if requested.

AKSSERT Audit and Certification Ltd. Co.  
JAS-ANZ  
Certificate Number: 51935  
Registration Date: 11.12.2020  
Reissue Date: -  
Expiry Date: 10.12.2021

Address: Mustafa Kemal Mah. 235/73 Sokak No:5/7 Çankaya / ANKARA - TURKEY  
Phone: +90 312 284 50 44 (5line)  
E-mail: [info@aksert.com](mailto:info@aksert.com) Web: [www.aksert.com](http://www.aksert.com)



## CERTIFICATE

EN ISO 9006-1 135 P FW FM1 S 14 PB ml

Certificate No.: 17-IS-1142-TAT-17-ANLD-2888  
Manufacturer - welding procedure: WPS-RC-FW-4-135  
Surname / first name of the welder: CANBAZ, Vedat  
Method of identification / identification: ID-Card / 1015723264  
Date of birth / Place of birth: 12.01.1989 / Mihalıççık  
Employed at: ReCap Makina Mühendislik İnşaat ve Turizm Sanayi Ticaret Limited Şirketi  
Code / Testing Standard: OENORM EN ISO 9006-1 and AD 2000-MerkBlatt HP 3

Examining body: TÜV-AUSTRIA CERT GMBH  
A-1230 Wien, Dautzackstraße 10  
Examiner: GENÇKAN, Gökçah  
Welder's sign: B  
Permission acc. PED: TÜV-AUSTRIA CERT GMBH  
Recognized third party organization according article 24 of directive 2014/68/EU

Test data - Particulars	Scope
Welding process(es): TIG	135, 138
Transfer mode: Short Circuiting Arc	All transfer modes
Plate or Tube: P	P, T; Fixed 2500 mm, Rot.: 75 mm)
Type of weld: FW	FW
Material group(s): CR ISO 15608 Group 1,2	-
Filler material group: FM1 / S	FM1 FM2 / S, M
Filler material (designation): EN ISO 14341 - A, G 46 4 M21 G 4 S1	-
Shielding gases: EN ISO 14175: M24	-
Adjunct: -	-
Type of current and polarity: DC(+)	-
Material thickness (mm): 4	≥ 3
Deposited thickness (mm): -	-
Outside pipe diameter (mm): -	-
Welding positions: PB	PA, PB, SA, SA
Details of weld seam: ml	-

For additional information, see supplementary sheet and/or Manufacturer's welding procedure specification.

Type of test	Partial and Automatic	Not required	Prolongation acc. to point 9.2	Name and Signature
Supplementary filed weld test	X	X	Date	Signature
Visual Testing	X	X		
Radiographic Examination	X	X		
Ultrasonic Test	X	X		
Macro section	X	X		
Fracture test	X	X		
Bend test	X	X		
Notched Tensile test	X	X		
Additional tests*)	X	X		
Hardness test	X	X		
Job knowledge	X	X		
Date: 28.12.2017				Signature: [Signature]
Date of issue: Ankara				Signature: [Signature]
Date of testing: 15.11.2017				Signature: [Signature]
Valid till: 15.11.2020				Signature: [Signature]

\*Details on supplementary sheet, if required  
\*)In case of proper confirmation of employer or supervisor ( acc. to testing standard 8.3 (a))







## We Offer ?

- Competitive and faster service
- Precise and technologic business model
- Dynamic and highly skilled team
- Manufacturing at our plant
- Commissioning at the customer site
- 7/24 availability and troubleshooting solutions

## References



# Otokoç



creavit



TATKO

ÖZMAN  
OTOMOTİV







[recap.com.tr](http://recap.com.tr)

E-mail: [info@recap.com.tr](mailto:info@recap.com.tr)

Phone: 90-222-246 0 333

Eskişehir – Turkey