

What are dreams made of?

FOUNDED IN  
**1952**

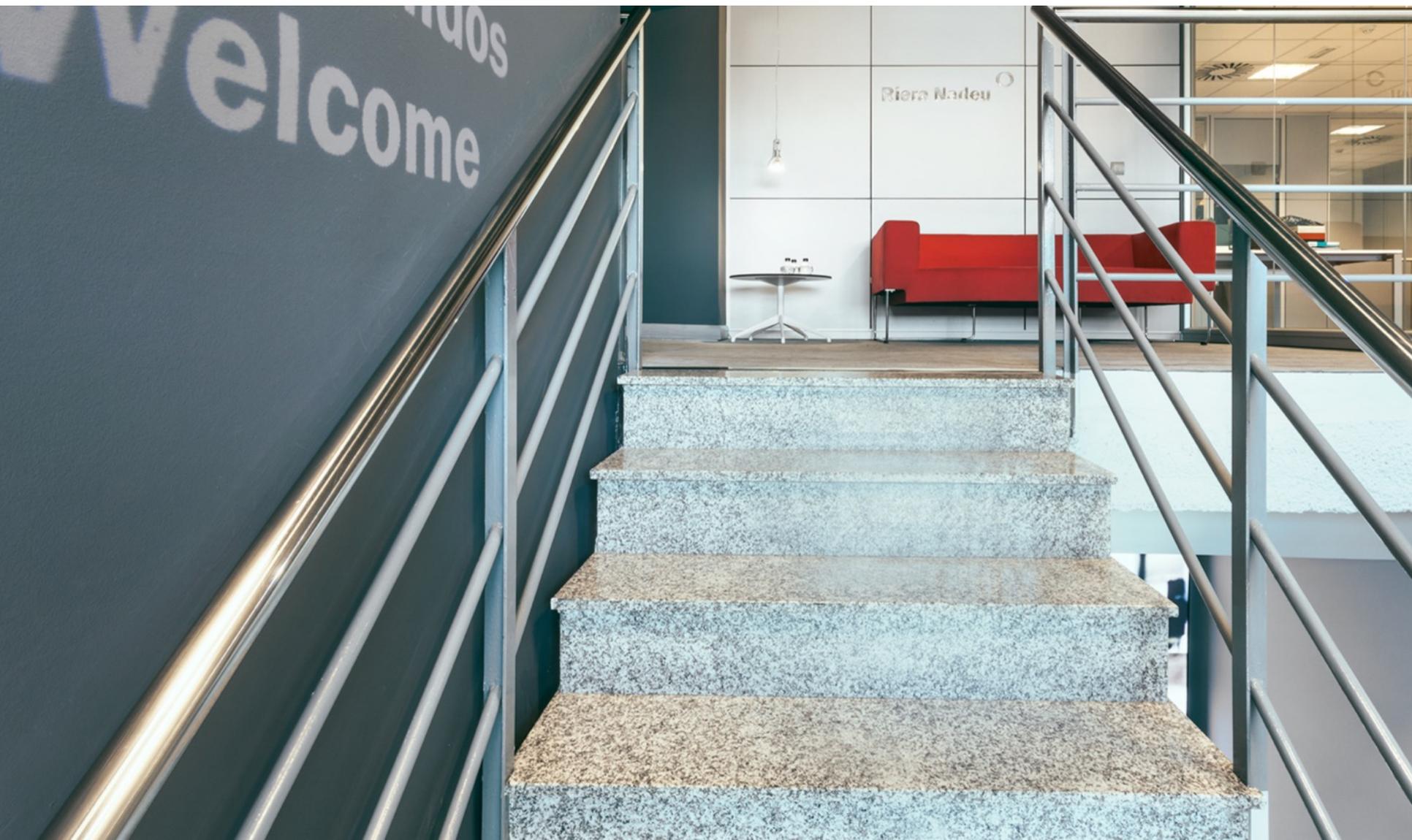
- 3 generations achieving a dream.
- Based in Barcelona.
- Worldwide presence with 2.000+ installations.



**Riera Nadeu** 

FOUNDED IN  
**1952**

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**A standard in quality and innovation**

**Leader in the most demanding industries**

- Filtering batch centrifuges for Pharma process.
- Horizontal and vertical designs.
- Automatic discharge.



**A standard in quality and innovation**

**Leader in the most demanding industries**

- \_Filtering batch centrifuges for Chemical process.
- \_Horizontal and vertical designs.
- \_Automatic and manual discharge.



**A standard in quality and innovation**

**Leader in the most demanding industries**

- \_Decanting batch centrifuges for Biotech or Pharma process.
- \_Sterilization In Place design.
- \_Automatic and manual discharge.



**A standard in quality and innovation**

**Leader in the pharmaceutical and chemical industries**

- \_ Supercentrifuges.
- \_ High speed decanting tubular rotor design.



**A standard in quality and innovation**

**Leader in the pharmaceutical and chemical industries**

- \_Continuous filtering centrifuges.
- \_High throughput process.



**A standard in quality and innovation**

**Leader in the pharmaceutical and chemical industries**

- \_RINA Flash Dryers.
- \_Atomization or wet solid drying.



**A standard in quality and innovation**

**Leader in the pharmaceutical and chemical industries**

- \_RINA Spray Dryers.
- \_Open circuit or close loop ATEX design.



**A standard in quality and innovation**

**Leader in the pharmaceutical and chemical industries**

**\_RINA Jet Mills.**

**\_Fine and homogeneous particle size distribution.**



**A strong commitment**

**To customers and projects.**

- \_Several references within the most important leaders of the industry.
- \_Highest satisfaction of our partners.



**ESTEVE**

**MERCK**



**SOLVAY**  
asking more from chemistry®

**GRIFOLS**

**SANDOZ** A Novartis  
Division

**BASF**  
We create chemistry

 **Boehringer  
Ingelheim**



**SANOFI** 

© *Johnson & Johnson*

**ARKEMA**  
INN V TIVE CHEMIST

**FAREVA**

أرامكو السعودية  
**saudi aramco** 

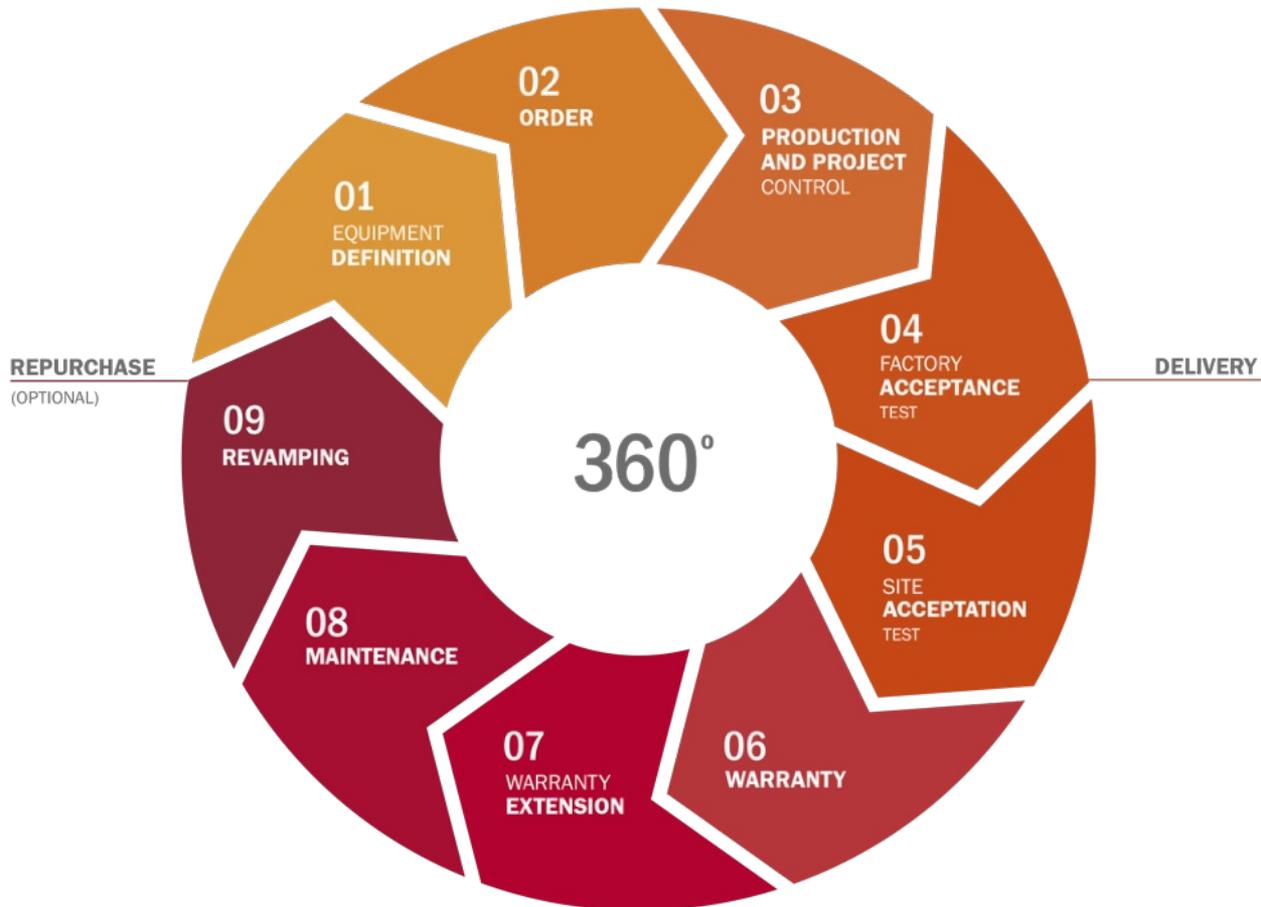
**MOEHS**  
FINE CHEMICALS

 **ALBEMARLE®**



**A strong commitment**

— Long-term cooperation during the whole life cycle of your projects.



**A strong commitment**

**\_Pre-sales and Engineering advices for the best solutions.**



**A strong commitment**

- \_RINA Services for commissioning, start-up and training.
- \_RINA Services for technical support and process optimization.
- \_RINA Services for spare parts, maintenance and urgent assistance



**A strong commitment**

Maximum quality of works performance.



100% Made in  
Barcelona

- \_ Ethic commitment to our ecosystem: people, ecology and energy.
- \_ Quality system ISO.
- \_ Lean Manufacturing-



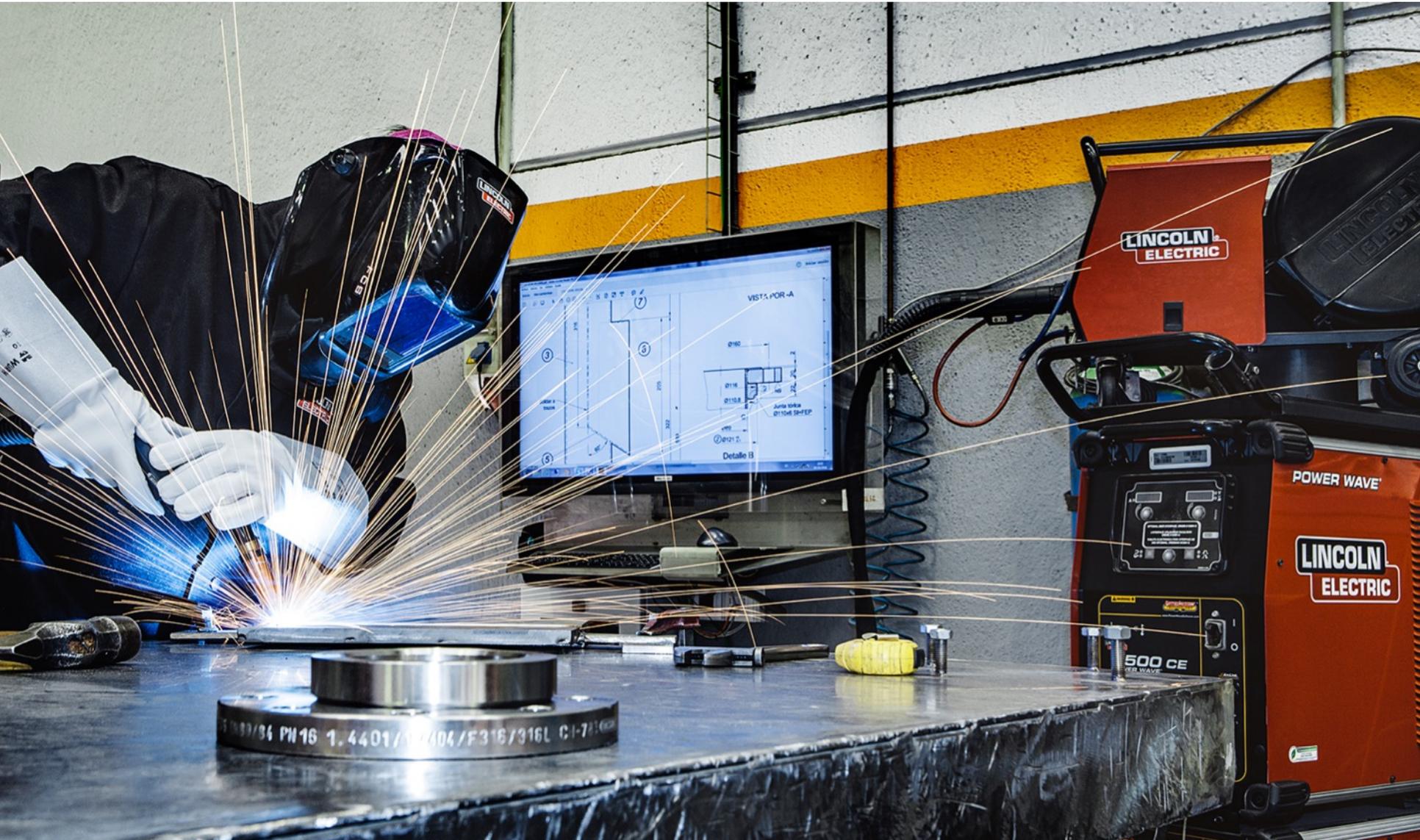
**100% Made in  
Barcelona**

- \_ Manufacture and assembling are 100% done at our Barcelona facilities.
- \_ All processes in the project are 100% digitally controlled.



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Barcelona**

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All processes in the project are 100% digitally controlled.



**100% Made in  
Barcelona**

- \_ Manufacture and assembling 100% done at our Barcelona facilities.
- \_ Tailor made automation solutions.



Opportunities don't happen,  
You create them

Laboratory Test Center to define the best process solutions  
for your requirements.



**Opportunities don't happen,  
You create them**

High skilled expertise to secure your investment.



**Opportunities don't happen,  
You create them**

**\_Exclusive and innovative solutions.**



**Opportunities don't happen,  
You create them**

Cooperating with the best elec & automation standards in the market.



**Opportunities don't happen,  
You create them**

Efficient spare parts and service management to secure the performance of your plant.



**Differentiation  
& exclusivity**

**Long experience in the most demanding industries**



**Riera Nadeu  
for:**



**Biotech**



**Fine Chemical & Pharma**



**Food**



**Basic Chemical**



**Mining**



**Oil & Gas**



**Upcycling**

**Differentiation & exclusivity**

- \_ Ethic commitment to our ecosystem: people, ecology and energy.
- \_ External audits and Quality system ISO 9001.
- \_ Lean Manufacturing.



	Marking	Explosive atmosphere	Standards	Classification	Protection levels	Protection levels	Good practices
<b>Europe</b>	<p>Certification</p> <p>Conformité Européenne</p>  <p>2006/42/EC Machines Directive</p> <p>2014/35/UE LVD Low Voltage Directive)</p> <p>2014/30/UE EMC (Electromagnetic Compatibility)</p>	 <p>International Electrotechnical Commission System for Certification to Standards Relating to Equipment for Use in Explosive Atmospheres</p>	<p><b>(IEC)</b></p> <p>International Electrotechnical Commission</p>	<p>IEC Classification IEC 60079</p>	 <p>IEC/ATEX Equipment Protection Level (EPL) ATEX directive (ATEX 2014/34/EU)</p>	<p><b>IP Rating</b></p> <p>Ingress Protection Codes IPxx (IEC 60079)</p>	
<b>US / Canada</b>	<p>Approval</p>  <p>Underwriters Laboratories</p> <p>Underwriters Laboratories of Canada</p>		<p><b>(NEC/CEC)</b></p> <p>National Electrical Code/Canadian Electrical Code</p>	<p>ANSI/NFPA 70 NEC Article 505</p>		 <p>NEMA Enclosure Types)</p>	
<b>Russia</b>	<p>Approval</p>  <p>Euro-Asian Council for Standardization, Metrology and Certification (EASC)</p>						

Based on CE standards or other request



PRODUCT MAP								
Centrifuge Separation				+	Drying		+	Milling
Suspension			Liquid/Liquid mixture	Solution/Suspension	Wet solid	Dry powder		
Batch filtering	Batch decanting	Continuous filtering	Continuous decanting	Continuous atomization feed	Continuous conveying feed	Continuous injection		
RINA 200F Vertical Manual	RINA 200D Vertical Manual F/D	RINA 500F Vertical	RINA SRP S	RINA Flash Dryer	RINA Flash Dryer	RINA Jet Mill Vertical Manual F/D		
RINA 300F Vertical Automatic	RINA 300D Vertical Automatic F/D			RINA Spray Dryer				
RINA 700F Horizontal Automatic	RINA SRP C Manual							
	RINA SRP AD Automatic							
Wet Solid + Liquid			2 separated liquids	Dry Powder		Powder <10µm		
<b>Biotech design</b> Life science industry	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			
<b>Pharma design</b> Fine chemical industry Food industry	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>					
<b>Food grade design</b> Agrochemical industry					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
<b>Chemical design</b> Bulk chemical Mining industry Oil & Gas Upcycling	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>

