AGRICULTURAL MACHINERY

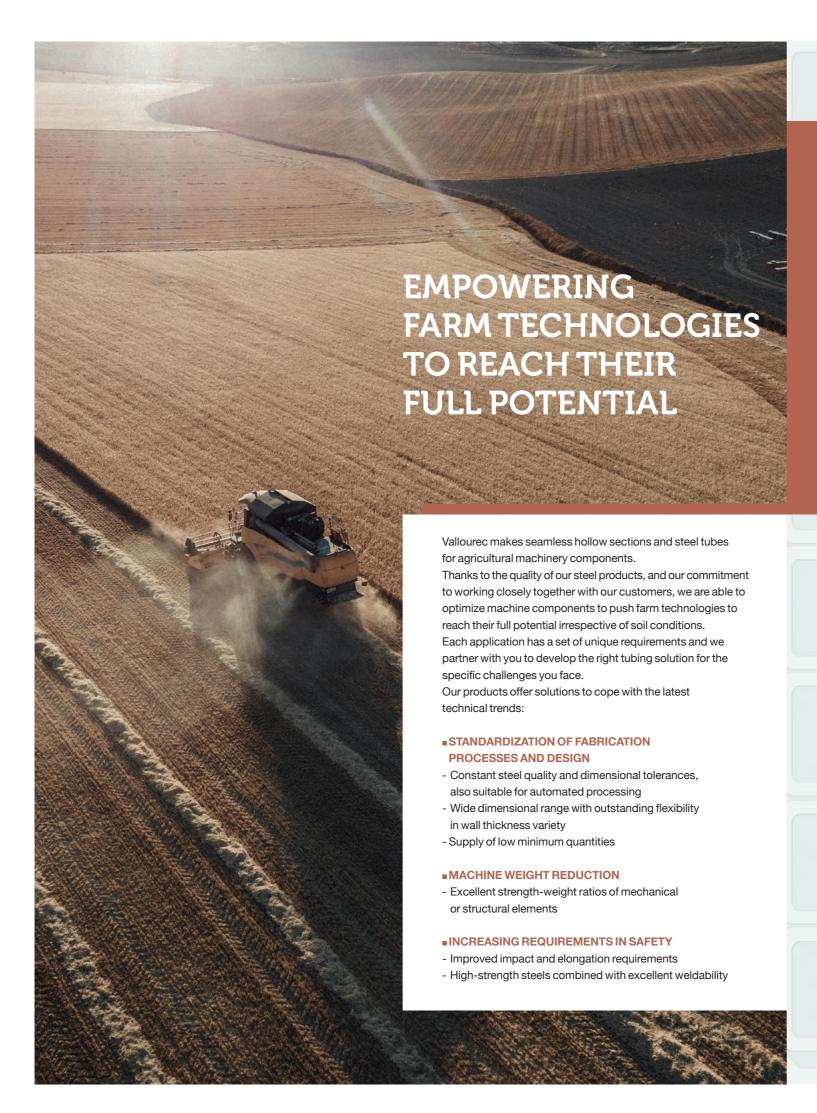


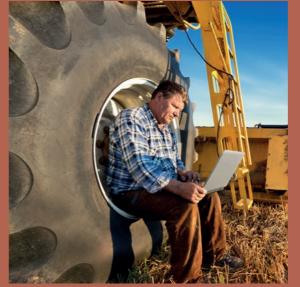












"Vallourec took the time to understand our products. Their teams partnered closely with us to find the solution for optimizing our equipment productivity."

INTERNATIONAL MANUFACTURER





PRODUCTION FACILITIES, CLOSE TO OUR CUSTOMERS



PRESENTIN MORE THAN 20 COUNTRIES

50%
INCREASE IN FOOD
PRODUCTION
BY 2050



BRINGING INNOVATIVE SOLUTIONS TO MECHANICAL ENGINEERING & STRUCTURAL APPLICATIONS

Our high quality hollow sections provide added value to all types of agricultural machinery applications, including frames, axles, and cabin structures and Roll Over Protections (ROPs). Recognized for their best-in-class surface quality, our seamless tubes are capable of meeting rigorous specifications, tolerances and properties. Along with a wide range of sizes and steel grades, in standard and premium qualities, we provide different internal and external shapes.

Partnering with our customers allows us to develop effective customized solutions. We also adapt to different supply chain concepts, offering machined tubes just-in-time via distribution partners, or delivering complete components to OEMs.

SERVICES



PROTOTYPE ASSISTANCE

Due to our manufacturing process we can support customers with low minimum quantities. For dedicated dimensions and grades, availability is even provided in single lengths.



MATERIAL SELECTION

Thanks to a wide steel portfolio, we offer advice and recommendations on engineering, grades, dimensions, and technical issues such as fatigue.



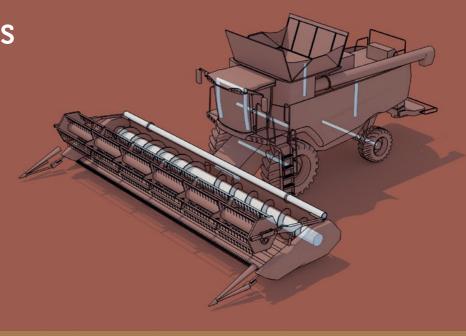
WELDING SUPPORT

We provide customized support on welding.

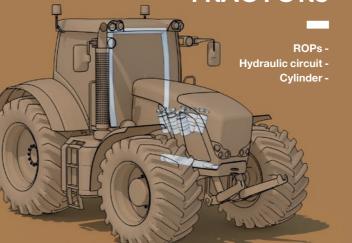
HARVESTERS



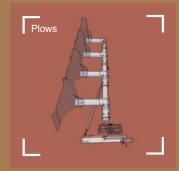
- Cabin frame
- Transport and treatments rolls
- Frame parts
- Main frame
- Attachments parts

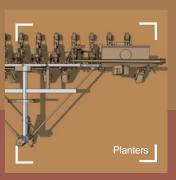


TRACTORS



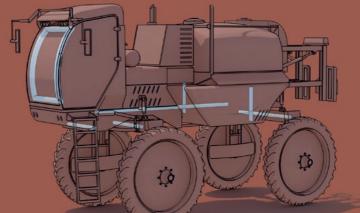
TILLAGE EQUIPMENT





SPRAYERS







VALLOUREC TEAM STRENGTH IN THE FIELD

Vallourec supplies the agricultural machinery market from two production regions: one in Europe with mills in France and Germany and another in South America with mills in Brazil. Committed to bringing excellence to your projects, our units are among the best-equipped steel complexes in the international market with capabilities to cover a wide range of dimensions and grades using various manufacturing processes to meet all challenges.

With a proven track record in the field, key players trust us as their partner of choice for efficient sourcing, fast project delivery and enhanced operations.

TYPICAL STEELS ACCORDING TO EN 10210

OUR OFFER FROM EUROPE

Vallourec Designation	Standard nomination ¹	Yield Strength Re Min.[MPa] ²	Tensile Strength R _m [Mpa] ²	Elongation A _{min} [%]		Impact- properties ¹ KV min. [J] ³	Delivery condition
				Long.	Trans.		
S355J2H	\$355J2H	355	470-630	22	20	27 at -20°C	+AR /+N4
S460NH	\$460NH	460	540-720	17	15	40 at -20°C	+N ⁴
Forterior®500	-	500	Min. 610	17	-	-	+AR
Forterior®500	S500QH	500	590-770	17	15	30 at -20°C	
Forterior®550	S550QH	550	640-820	16	14	30 at -20°C	
Forterior®620	S620QH	620	700-890	16	14	30 at -20°C	
FineXcell®690	S690QLH	690	770-940	16	14	30 at -40°C	+QT
FineXcell®770	S770QLH	770	820-1000	15	13	30 at -40°C	
FineXcell®890	S890QLH	890	960-1110	14	12	30 at -40°C	
FineXcell®960	S960QLH	960	980-1150	10	8	30 at -40°C	

 1 Further nominations for other impact requirements are available but not focused here; 2 Values valid up to and including 16 mm wall thickness: 3 Samples in longitudinal direction: 4 Including normalized rolled.

WIDEST DIMENSIONAL RANGE FOR **GREATEST FLEXIBILITY**

From 76.1 to 711 mm, our diversified mills ensure the widest available dimensional range in seamless tubes and hollow sections. Our offer of different wall thicknesses for the same static value enable lighter structures and higher load capabilities.

SHAPES & SIZES:

Hot-rolled seamless







UP TO 304.8 x 304.8 mm



Rectangular **UP TO 400 x 200 mm** wr: 2.9 mm - 25 mm







OUR CUSTOMERS CLAIM WE DRIVE THEIR SUCCESS

Vallourec provides innovative agricultural technology that appeals to manufacturers worldwide. Our global production facilities and sales offices with local supports supply our customers anywhere around the world. Partnering closely with customers our knowledge of local market needs bring direct benefits. For example, when supplying components for planter frame structures, our mills know to adapt its design according to the region's standard planter size. Customers appreciate our offer of tight tolerances and high range of flexible wall thicknesses, recognized as the best on the market. Homogeneous material properties due to hot forming add strength and durability, and provide stability and longer product life-cycle.





FOR MORE INFORMATION ON EXPERTISE.VALLOUREC.COM



TYPICAL STEEL GRADES ACCORDING TO ASTM A500 AND ASTM A501

OUR OFFER FROM BRAZIL

Vallourec Designation	Standard nomination	Yield Strength Re Min.[MPa]	Tensile Strength R _m [Mpa]	Elongation A _{min} [%]		Impact- properties KV min. [J]	Delivery condition
				Long.	Trans.		
	A500 GrB	315	400	23	-	-	RHS: Cold formed or +SR
	A500 GrC	345	425	21	-	-	RHS: Cold formed or +SR
	A501 GrB	345	483	23	-	-	CHS: Hot rolled
VMB250	VMB250	250	400	23	-	-	CHS: Hot rolled RHS: Cold formed or +SR
VMB300	VMB300	300	415	21	-	-	CHS: Hot rolled RHS: Cold formed or+SR
VMB350	VMB350	350	485	20	-	-	CHS: Hot rolled RHS: Cold formed or +SR
FB70	FB70	460	608	20	-	-	CHS: Hot rolled RHS: +SR
	\$355 J2H	355	470 - 630	22	-	27 at -20°	CHS: Hot rolled RHS: +SR

+SR = additional stress relief; RHS = rectangular hollw section; CHS = circular hollow section.

WIDEST DIMENSIONAL RANGE FOR **GREATEST FLEXIBILITY**

From 33.4 to 355.6 mm, our diversified mills ensure the widest available dimensional range in seamless tubes and hollow sections. Our offer of different wall thicknesses for the same static value enable lighter structures and higher load capabilities.

SHAPES & SIZES:

Hot-rolled seamless

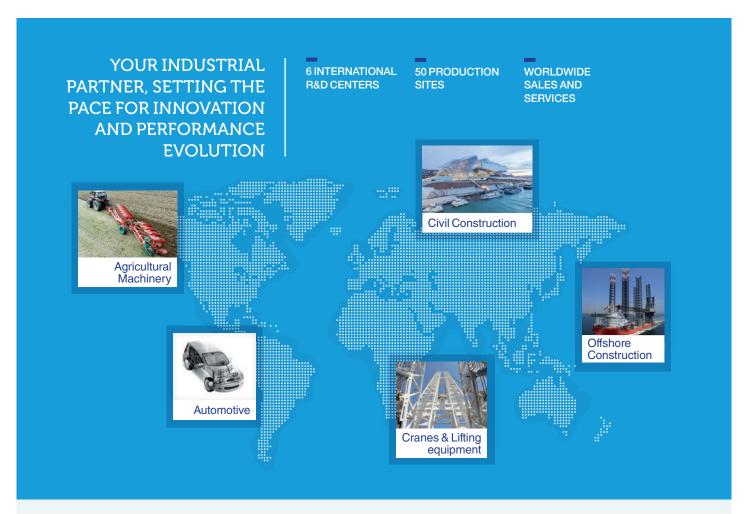


wt: 3.6 mm - 16 mm





op: 33.4 up to 355.6 mm 50 x 50 mm **up to** 300 x 300 mm 60 x 40 mm **up to** 400 x 200 mm **WT:** 3.6 mm – 16 mm



NEED MORE INFORMATION?

Information is available online on solutions.vallourec.com or by scanning the following QR code.







Headquarters

12, rue de la Verrerie 92190 Meudon - FRANCE industry@vallourec.com

Find your local phone details on your country's page on www.vallourec.com