

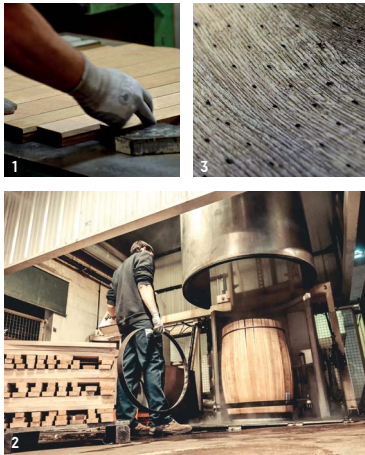
# INNOVATIONS

Vicard Group patented innovations



## INNOVATION IS AT THE HEART OF OUR MISSION

Guided by the passion of the profession and supported by 5 generations of expertise, Jean-Charles Vicard vision for Group Vicard combines innovation at the essential stages in the manufacture process while honoring a profession that remains hand-crafted.



### SLOT-SAW ASSEMBLY (LE BOUVETAGE DES FONDS®) (2000) <sup>(1)</sup>

Grooved wood pieces are assembled together using pressure, wood on wood. This innovative technique is used on all Vicard barrel heads and for construction of the award-winning ECO 3 barrel.

### STEAM BENDING (2005) <sup>(2)</sup>

An automated process to bend stave wood in less than 5 minutes using low pressure steam. The barrel retains its original organoleptic properties, yielding more uniform toasting results.

### SCARSTAVE® - THE BLISTER-FREE VICARD PROCESS (2009) <sup>(3)</sup>

The staves are scarified during the machining stage with micro slits. The process removes all risk of blistering and allows for deeper toasting of stave wood.



### MOLECULAR TOASTING (2011) - HOMOGENEITY, UNIFORMITY, REPRODUCIBILITY <sup>(4)</sup>

The Vicard patented toasting system, in use since 2011, is quite unique in our profession. This revolutionary advancement, designed to provide homogeneity, reproducibility and precision, uses radiant heat and is fully computerized.

Each toasting chamber is a separate closed unit controlled by computer within +/- 3° C. In addition to its precision and total reproducibility, this technology made it possible to develop innovative toasting profiles including gradual toasting in which the temperature is gradually increased in four stages.

This unique profile modulates the temperatures that affect the formation, development and degradation of various aromatic compounds in the oak.



### TANNIN POTENTIAL SELECTION - VICARD GENERATION 7 (2012) <sup>(5)</sup>

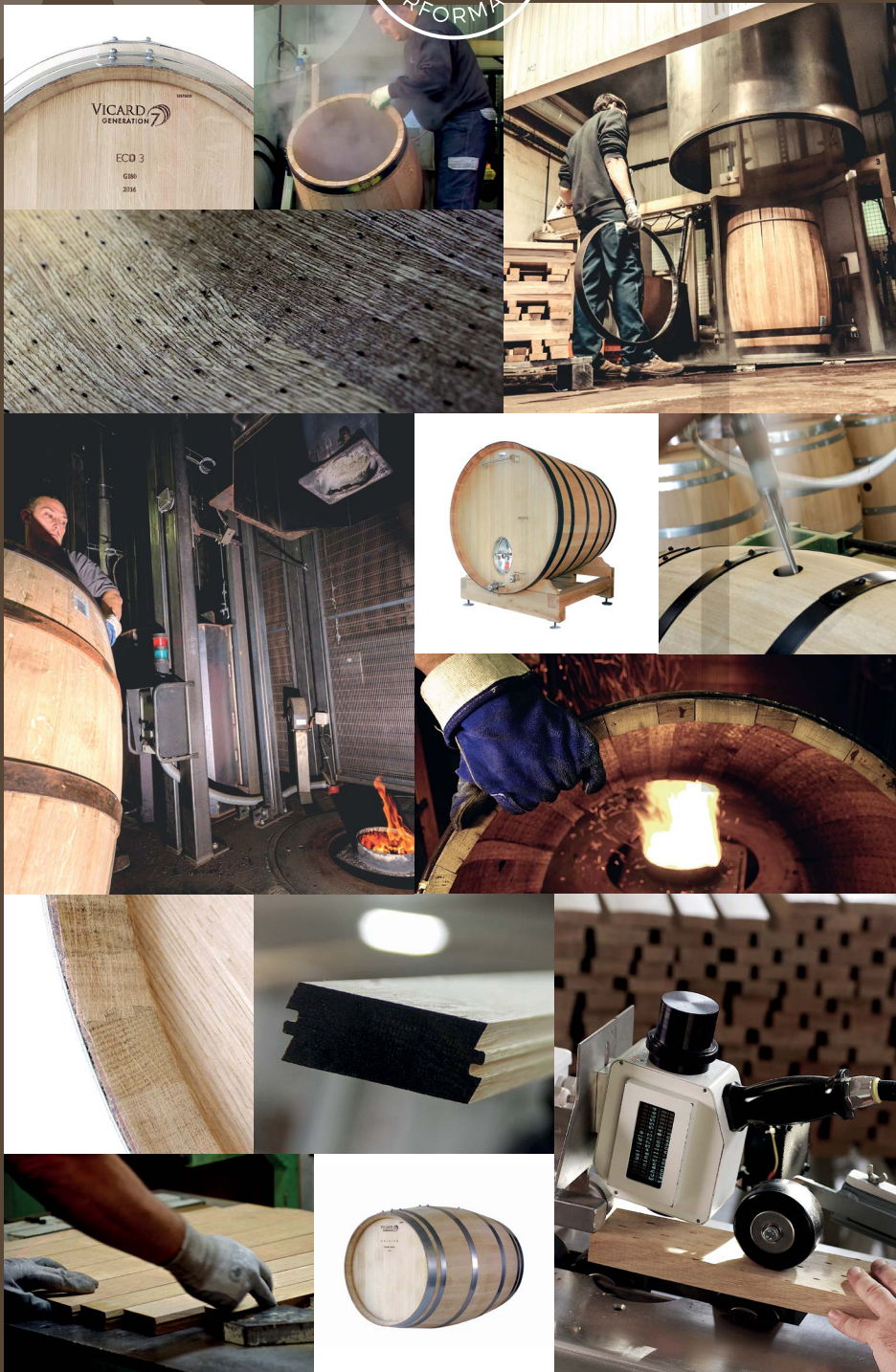
Jean-Charles Vicard founded Esprit de Dryades in 2010 to focus his research team on techniques and innovative methods to combat the variations found in traditional coopering. After 3 years of intensive research and trials, he launched Vicard Generation 7 Tannin Selection barrels in Europe and the USA.

The key component of Generation 7 is the Tannin Potential (TP) technology which provides a quick and reliable measure of ellagitannin content in untoasted oak wood. When combined with molecular toasting, the resulting barrels not only deliver specific flavor and texture profiles, they are reproducible and homogeneous.

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