

# POWERSEAL™ Sealer/Divider Curved Jaw, Double-Action

Introducing the Next Level in Safety and Control for Advanced Bipolar Technology

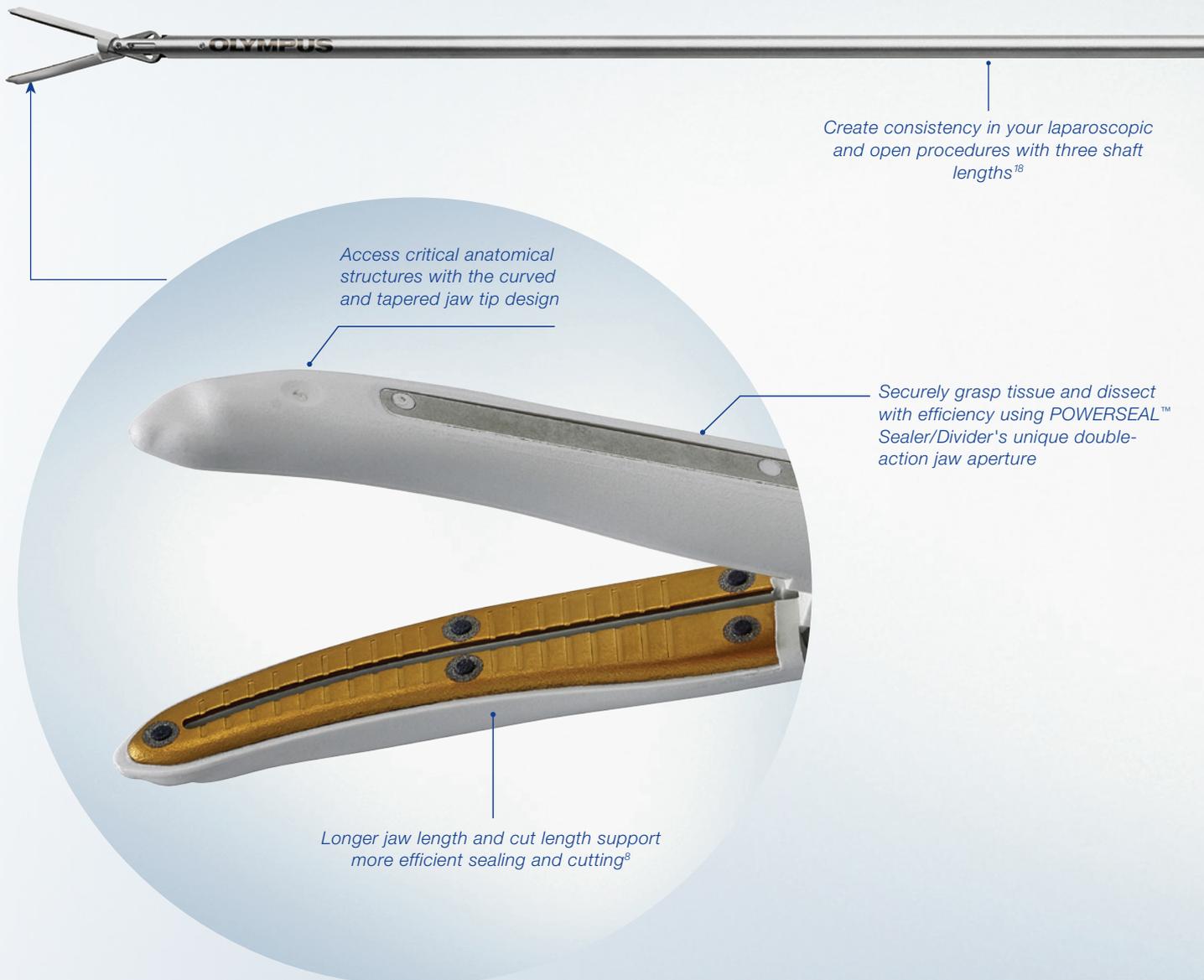


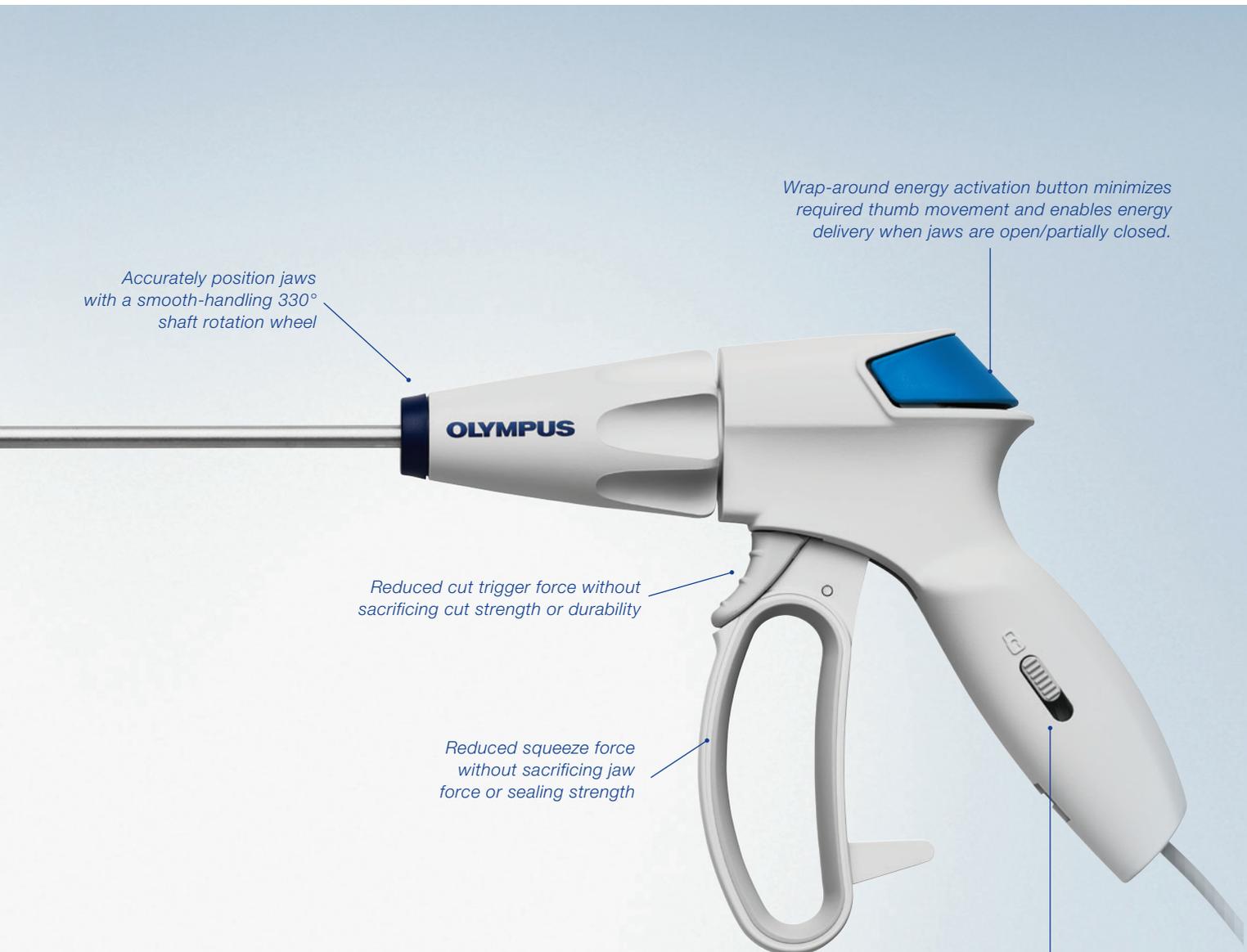
# Product Overview

## POWERSEAL™ Sealer/Divider

### A Better Surgical Experience

POWERSEAL™ Sealer/Divider was purpose-built to support the variety of ways you use surgical energy. We started by ensuring the high-quality sealing you expect. Then, building on a form and function you're already used to, we added both new and more intuitive features that require less effort, streamline your workflow, and accommodate your preferences and surgical technique.<sup>15</sup> The result is an enhanced surgical energy experience offering unmatched comfort, efficiency and performance.





Accurately position jaws with a smooth-handling 330° shaft rotation wheel

Wrap-around energy activation button minimizes required thumb movement and enables energy delivery when jaws are open/partially closed.

Reduced cut trigger force without sacrificing cut strength or durability

Reduced squeeze force without sacrificing jaw force or sealing strength

Latch off

Latch on



Supports your surgical technique by allowing you the option to have the latch on or off

# Confident Vessel Sealing

## POWERSEAL™ Sealer/Divider

### A Better Workflow Meets Uncompromising Performance.<sup>9</sup>

Your surgical energy device shouldn't slow you down or interrupt your in-procedure momentum.

POWERSEAL™ Sealer/Divider delivers consistently strong vessel sealing throughout the procedure.

- Vessel sealing up to 7 mm, including pulmonary vessels, tissue bundles and lymphatics.<sup>1</sup>
- In side-by-side GLP (Good Laboratory Practice) animal lab testing, POWERSEAL™ Sealer/Divider showed significantly better seal integrity performance.<sup>2</sup>
- No statistical difference in thermal spread when compared to LigaSure™ Maryland Jaw.<sup>4</sup>



**Maintains effective jaw force after repeated cycles.<sup>6</sup>**

**POWERSEAL™ Sealer/Divider's high jaw force enables consistent sealing across the long jaw.<sup>7</sup>**



## SECURE SEALING

Greater than 99% probability of vessel burst pressure above 360 mmHg, regardless of vessel size.<sup>3</sup>



## FAST SEALING

Average seal time is 2.8 seconds on vessels with a diameter up to 7 mm.<sup>17</sup>



# Multifunctional Design

## POWERSEAL™ Sealer/Divider



### Supports the Many Ways You Use Surgical Energy.

Not only do the familiar features of POWERSEAL™ Sealer/Divider make it easy to adopt, but its versatility delivers exceptional dissection, gives you flexibility to adjust settings to your surgical preference, and may ultimately increase your productivity.

- **15% wider jaw aperture than LigaSure™ Maryland Jaw** for enhanced grasping and dissection capability.<sup>15</sup>
- **Unique latch-on/latch-off setting capability** adjusts to your surgical technique and preference.
- **Latch-off setting provides audible and tactile feedback** to signal sufficient jaw pressure to confidently achieve 7 mm vessel sealing.<sup>6</sup>
- **Energy activation without the requirement to fully close the jaws**, when desired by the surgeon.
- Waveform and jaw construction combine to yield **resistance to tissue sticking that is comparable to the nano-coated LigaSure™ Maryland Jaw.**<sup>5</sup>

7% longer jaw length and 6% longer cut length require fewer energy and cut blade activations compared to LigaSure™ Maryland Jaw.<sup>8</sup>

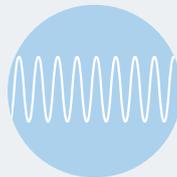


POWERSEAL™ Sealer/Divider	LigaSure™ Maryland Jaw
<b>19.1 mm</b> Jaw aperture	<b>16.6 mm</b> Jaw aperture
<b>22.5 mm</b> Jaw length	<b>21.0 mm</b> Jaw length
<b>19.3 mm</b> Cut length	<b>18.2 mm</b> Cut length

Based on internal Olympus test methods

### Energy Activation

Energy activation without requirement to fully close the jaws facilitates activation on thick tissue or spot coagulation of surface bleeders.



### A True Maryland Dissector

A true curved, tapered and double-action Maryland dissector/grasper design.



## Independent surgeons surveyed indicated:

Better usability and overall performance<sup>9</sup>

Wider jaw aperture provides enhanced dissection capability<sup>10</sup>

Easier to separate tissue planes by opening the jaws<sup>10</sup>

Better ability to perform fine tissue dissection<sup>11</sup>

Better ability to coagulate small bleeders using the device tips<sup>12</sup>

Atraumatic jaw design provides strong grasping capability<sup>13</sup>

Effective for blunt dissection<sup>14</sup>

# Improved Ergonomics

## POWERSEAL™ Sealer/Divider



### Ergonomic Design

The first thing you'll notice about POWERSEAL™ Sealer/Divider is how good it feels in your hand. It was rigorously crafted to fit naturally in your hand and deliver an improved experience.

#### When compared to LigaSure™ Maryland Jaw:

- 55% less squeeze force required to close the jaws without sacrificing jaw force or sealing strength.<sup>15</sup>
- Reduced reach distances to device landmarks.<sup>15</sup>
- 10% less squeeze force required to actuate cutting blade without sacrificing cutting effectiveness.<sup>15</sup>
- Latch-on setting maintains secure jaw position while grasping and retracting or sealing vessels.

Activate energy easier – and from every angle  
 – with a wrap-around button design that  
 requires minimal thumb movement

Accurate positioning of the  
 jaws is achieved through a  
 smooth shaft rotation wheel  
 with virtually no spring-back



Reduced reach to device landmarks<sup>15</sup>



POWERSEAL™ Sealer/Divider



LigaSure™ Maryland Jaw

**POWERSEAL™ Sealer/Divider**

**LigaSure™ Maryland Jaw**

**50.7 mm**

Reach to jaw lever

**53.5 mm**

Reach to jaw lever

**59.2 mm**

Reach to cut trigger

**69 mm**

Reach to cut trigger

**65.7 mm**

Reach to rotation wheel

**74 mm**

Reach to rotation wheel

**Reference Citation**

1	Based on internal test reports and acute and chronic animal studies reports – DN0044705, DN0044706.
2	Based on GLP acute and chronic animal studies reports – DN0044705, DN0044706.
3	Based on internal design verification tests – DN0044249, DN0044289.
4	Based on internal tissue testing with histology reports – DN0044287, DN0044290.
5	Based on internal vessel sealing report – DN0044404.
6	Based on internal design verification electrical and mechanical test reports – DN0042457, DN0044073.
7	Based on internal design verification electrical and mechanical test reports -- DN0046457.
8	Based on internal side-by-side testing measuring time and number of seal/cut cycles to seal/transect 20cm of porcine mesentery – DN0044405.
9	12 of 12 surgeons evaluated POWERSEAL™ Sealer/Divider usability and overall performance as significantly better than LigaSure™ Maryland Jaw. Design validation study with independent surgeons – DN0044403.
10	77% of surgeons indicated enhanced dissection capability and better ability to separate tissue planes by opening the jaws, compared to LigaSure™ Maryland Jaw. Design validation animal labs with independent surgeons, 2020 – DN0044691.
11	65% of surgeons indicated better fine dissection capability when compared to LigaSure™ Maryland Jaw. Design validation animal labs with independent surgeons, 2020 – DN0044691.
12	61% of surgeons indicated better ability when compared to LigaSure™ Maryland Jaw. Design validation animal labs with independent surgeons, 2020 – DN0044691.
13	97% of surgeons indicated POWERSEAL™ Sealer/Divider is effective for atraumatic grasping. Design validation animal labs with independent surgeons, 2020 – DN0044691.
14	29 of 31 surgeons surveyed agreed POWERSEAL™ Sealer/Divider is effective for blunt dissection. Design validation animal labs with independent surgeons, 2020 – DN0044691.
15	Internal test report – DN0046457.
16	Based on design verification system test reports – DN0043724, DN0044130.
17	Based on internal test reports – DN0044249.
18	Internal test reports – DN0042457, DN0044403.
19	Based on internal test reports – DN0043725, DN0044288, DN0044291, DN0044706, DN0046942, DN0044249.

As medical knowledge is constantly growing, technical modifications or changes of the product design, product specifications, accessories and service offerings may be required.



**OLYMPUS EUROPA SE & CO. KG**  
Postbox 10 49 08, 20034 Hamburg, Germany  
Wendenstrasse 20, 20097 Hamburg, Germany  
Phone: +49 40 23773-0, Fax: +49 40 233765  
www.olympus-europa.com

For a complete listing of  
sales and distribution locations visit:  
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