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3-D MLC and OPTIFOCUS
Fully Integrated Multileaf Collimators

www.siemens.com/medical
Siemens always strives for ways to integrate cutting-edge technologies into its long-proven linear accelerator designs. The enhanced family of multileaf collimators (MLC) is another example of Siemens continuing commitment to elevate radiation therapy to a new level of treatment efficiency and cost-effectiveness.

Depending on customers' needs, the 3-D MLC with 58 leaves and the OPTIFOCUS™ full-field 82-leaf MLC are designed to optimize treatment delivery workflow by reducing the need to enter the treatment room multiple times per day to lift and position heavy, cumbersome blocks. Moreover, both MLCs allow for complete integration with the control console and the Oncology Information Management System to provide a seamlessly linked operation.

When combined with automation tools available on ONCOR™ and PRIMUS™ Linear Accelerators, such as the SIMTEC™ AFS, SIMTEC™ IM-MAXX, VIRTUAL WEDGE™, treatment tables, and OPTIVUE™, Siemens MLC solutions increase efficiency, minimize costs, and enable better patient outcomes.

The 3-D MLC and the OPTIFOCUS set new standards in innovation and design:

- **Flexible**: Clinical teams can treat a broader range of tumors using several technique options – from conventional and conformal treatments to Intensity-Modulated Radiation Therapy (IMRT).
- **Safe**: Every MLC field is fully verified prior to delivery.
- **Fast**: Siemens MLC solutions, combined with the SIMTEC delivery system, enable clinical teams to treat an unlimited number of fields faster than ever.
- **Reliable**: Both the 3-D MLC and the OPTIFOCUS MLC feature a unique ball bearing technology that allows for frictionless leaf movements, ultimately extending the life of the MLC components.

Siemens MLC solutions offer a combination of industry-leading specifications with outstanding performance and a high degree of reliability.

### Technical Information

<table>
<thead>
<tr>
<th>3-D MLC</th>
<th>OPTIFOCUS MLC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of leaves</td>
<td>58</td>
</tr>
<tr>
<td>Leaf position accuracy at isocenter (μm)</td>
<td>±2</td>
</tr>
<tr>
<td>Maximum circular field diameter (cm)</td>
<td>29</td>
</tr>
<tr>
<td>Leaf width at isocenter (# of leaves x mm)</td>
<td>54 x 10</td>
</tr>
<tr>
<td>Maximum field size (cm)</td>
<td>40 x 40</td>
</tr>
<tr>
<td>Minimum field size (cm)</td>
<td>0 x 0</td>
</tr>
<tr>
<td>Maximum leaf speed (mm/sec)</td>
<td>20</td>
</tr>
<tr>
<td>Maximum leaf movement of a single leaf (cm)</td>
<td>30</td>
</tr>
<tr>
<td>Leaf material</td>
<td>Tungsten</td>
</tr>
<tr>
<td>Leaf height (mm)</td>
<td>75</td>
</tr>
<tr>
<td>Transmission through leaves (mean: 0.7%)</td>
<td>≤ 0.7% of field size</td>
</tr>
<tr>
<td>Transmission between leaves (mean: 1.5%)</td>
<td>≤ 2% of field size</td>
</tr>
<tr>
<td>Isocenter clearance with accessory holder (cm)</td>
<td>≤ 3</td>
</tr>
<tr>
<td>Isocenter clearance without accessory holder (cm)</td>
<td>≥ 3</td>
</tr>
<tr>
<td>Tolerances and gappy design</td>
<td>5%</td>
</tr>
<tr>
<td>Leaf orientation when collimator at 0° X direction</td>
<td>± 2°</td>
</tr>
<tr>
<td>Maximum number of MLC fields for an AFS treatment</td>
<td>Unlimited</td>
</tr>
<tr>
<td>Maximum number of MLC segments per gantry angle for an IMRT treatment</td>
<td>Unlimited</td>
</tr>
</tbody>
</table>

* Greater of 1 mm or 1% of leaf distance from central axis.

Values are in millimeters, unless defined otherwise.

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