FRONT MOUNTED CULTIVATOR
AND PRE-CULTIVATORS
TOPAS
DOLOMIT
LABRADOR
Even load distribution
The short and compact design of the Topas ensures a positive centre of gravity. The symmetrical positioning of the tines on the 140 mm square box section frame ensures an even draft which is particularly important when attached to the tractors front linkage. Tine distance is adjustable to suit the following implement.

High frame clearance
The outer guideboards provide ridge free operation between passes and large inter-tine and under frame clearance enables operation in dense trash conditions. Multi-adjustable depth wheels ensure an exact depth control. An adjustable rear PTO enables the use of the original PTO shaft of the following implement to be used.
The Topas 140 is fitted with the point and wing combination from the renowned Lemken Smaragd stubble cultivator.

- All wear parts are bolted to the frog and maybe changed individually for low cost operation.
- The F 20 flat share converts the Topas 140 into a chisel type cultivator and is suitable for use in light to medium soils to provide primary loosening.

The conversion of the Topas from a rear mounted to a front mounted cultivator is extremely simple.

- The rear linkage is raised and retained in an upright position.
- The Topas can then be connected to the tractors front linkage.
- It is recommended to fit the Topas with optional pneumatic castor wheels when used in the front mounted position.

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Point (1):
The special design ensures an intensive soil loosening. The width of the wings provides total soil movement throughout their working life.

Guideport (2):
The strategic shape of the guideboard assists the mixing of soil and trash while directing soil away from previous passes a preventing trash blockages.

Wings (3):
The two piece wings totally cut and loosen the soil across the full width of the implement.

Frog (4):
The point, wings and guideboards are mounted to the tine via a frog enabling the replacement of each part individually.

Tine angle adjustment (5):
The simple angular adjustment of each tine ensures the optimum working efficiency is achieved in a wide variety of soil types and conditions.
When using cultivation methods that work without ploughs, for example with mulch seed drill combinations, regularly loosening compaction in the subsoil is necessary. The Dolomit 9 pre-loosener from LEMKEN is ideal for all of these applications, and is especially suited for use with the Zirkon power harrow from LEMKEN.

**Pre-loosener compact in design and with optimum coupling point distance**

- The single-beam frame with 160 x 140 mm frame tube of the Dolomit 9 is particularly sturdy and warp-resistant.

- The extremely compact design results in a minor displacement of the centre of gravity for mounted drill combinations consisting of a power harrow and seed drill.

- Depending on the working width, the Dolomit 9 is equipped with 4 tines (3 metres) or 6 tines (4 metres). This ensures that the soil is always loosened over the whole width.

- The 60 cm-wide, one-piece wing with a hardfaced bolt-on point and wear edge on the coulter bar provides intensive loosening and a long service life.

- For universal applications with the Dolomit 9, the working depth can be adjusted between 5 and 35 cm without tools via a series of holes, regardless of the trailing implement.
Waterlogging prevents well-regulated gas exchange in the soil. Crop root growth is impeded, and nutrient uptake is highly restricted. These symptoms lead to yield losses. To prevent this from happening, targeted subsoil loosening is particularly important.

- Soil compaction due to frequent traffic in specific areas of the field (e.g. headlands, tramlines, etc.)
- Soil compaction due to traffic with heavy machinery (harvesters, transport vehicles, etc.)
- Impervious layers in the subsoil (hardpan layer)

A basic frame with a 160 mm square profile guarantees high stability and long service life. The hard-faced chisel shares, like the stalk guard, are reversible and thus provide longer use.

- The flat gradual shape of the chisel makes the Labrador particularly easy to pull. It also ensures that the soil breaks up towards the front and upwards.
- Infinitely variable adjustment of the chisels on the frame from 100 - 225 centimetres tractor track width.
- In addition to tramline loosening, a 3rd chisel is available as an accessory for other loosening measures.

Double-cutting shear bolt devices with a shear force of 8.5 t per bolt provide protection from damage, without deflecting right away on small obstacles.

- Like all other LEMKEN implements, the Labrador is equipped with a spring-steel cross shaft.
- Its elasticity absorbs impacts and thus protects the tractor and implement.
## Technical Data

### Front mounted cultivator Topas

<table>
<thead>
<tr>
<th>Description</th>
<th>Working width [cm]</th>
<th>Weight [kg]</th>
<th>HP</th>
<th>kW</th>
<th>Number of tines</th>
</tr>
</thead>
<tbody>
<tr>
<td>Topas 140-5-250</td>
<td>250*</td>
<td>381</td>
<td>70-135</td>
<td>51-99</td>
<td>5</td>
</tr>
<tr>
<td>Topas 140-7-300</td>
<td>300</td>
<td>415</td>
<td>90-150</td>
<td>66-110</td>
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</tr>
<tr>
<td>Topas 140-9-400</td>
<td>400</td>
<td>540</td>
<td>100-170</td>
<td>74-125</td>
<td>9</td>
</tr>
</tbody>
</table>

* can be enlarged for 3 m working width

### Pre-Loosener Dolomit 9

<table>
<thead>
<tr>
<th>Description</th>
<th>Working width [cm]</th>
<th>Weight [kg]</th>
<th>HP</th>
<th>kW</th>
<th>Number of legs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dolomit 9/300</td>
<td>300</td>
<td>430</td>
<td>80-170</td>
<td>59-125</td>
<td>4</td>
</tr>
<tr>
<td>Dolomit 9/400</td>
<td>400</td>
<td>550</td>
<td>100-200</td>
<td>74-147</td>
<td>6</td>
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</tbody>
</table>

### Subsoiler Labrador

<table>
<thead>
<tr>
<th>Description</th>
<th>Working width [cm]</th>
<th>Weight [kg]</th>
<th>HP</th>
<th>kW</th>
<th>Number of legs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Labrador 160</td>
<td>100-225</td>
<td>485</td>
<td>75-175</td>
<td>55-129</td>
<td>2</td>
</tr>
</tbody>
</table>

### Standard equipment Topas:
- Box section frame 140 x 140 mm
- Rigid tines with shearbolt device
- Wing shares, on request flat shares for deeper soil loosening without mixing
- Three-point linkage Cat. 2 (or Cat. 3)
- Outer guideboards
- Underframe clearance 75 cm
- Tine step of 60 cm
- Angle adjustment

### Standard equipment Dolomit:
- Lower link attachment Cat. 2 and Cat. 3
- Box section frame 160x160 mm nd 140x140 mm
- Hard-faced points and one-piece wing shares
- Height adjustable legs

### Standard equipment Labrador:
- Lower link attachment Cat. 3N=L2 Z3 (or Cat. 3)
- Box section frame 160 x 160 mm
- Reversible and exchangeable shares and shins
- Double cutting shearbolt device
- Underframe clearance 80 cm
- Stand
- Adjustable legs to all tractor track widths

All information, measurements and weights are subject to continuing technical further development and therefore non-binding. Given weights are always based on the basic equipment. The right to change specifications is retained.
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