Mechanical Rebar splicing with high tensile strength

**LUV SBT KFX - COUPLERS**

**PRODUCT:**
LUV SBT KFX Couplers are a parallel threaded mechanical splicing system for reinforcing bars diameter 16 to 40 mm and are designed to provide full tensile strength. They are manufactured in compliance with BS 8110, ACI 318, DIN 1045 and other international standards.

**Benefits**
- Full Tension splice and provides 100% load transmission.
- Solves bar congestion and allow better flow of concrete.
- Provides continuity of reinforcing bars.
- Reduces steel wastage and no overlapping.
- No reduction of the bar cross section area.
- Manufactured under strict quality, full traceability of material and production batch.
- Easy installation and shortens construction cycle time.
- Possible to splice rebar of different diameters by using reducing couplers.

**Application areas**
Piles, Foundations, Columns, Beams, Core Walls, Slabs, Bridges, Dams, Future Expansions.

**Rebar Threaded Couplers**

**Splicing Process**

**Cutting**
The end of the reinforcing bar is sawn cut.

**Cold Forging**
The sawn cut end of the reinforcing bar is enlarged by cold forging process, thus increase its core diameter.

**Threading**
Standard metric threads are then cut onto the enlarged end and cover by plastic caps to protect the thread of rebar.

**Splicing**
Finally splice the rebar by using Rebar Threaded couplers.
Type A  Rotatable Rebar Splice

Threaded re-bars and Coupler

Turn re-bars into the coupler to connect

Used where the connecting re-bar can be rotated, then end of the bars are threaded for half the length of the coupler

Type B  Non-Rotatable Rebar Splice

Threaded re-bars and Coupler

Turn the coupler onto the short threaded re-bar

Used where both re-bars are not rotatable, then starter bar is threaded for the full coupler length to screw coupler onto the extended threads

Type C  Non-Rotatable Rebar Splice with Lock-Nut

Threaded re-bars, Coupler and lock-nut

Turn the coupler and lock-nut onto the short threaded re-bar

Used where both re-bars are not rotatable, then starter bar is threaded for the full coupler + lock nut length to screw coupler and lock nut onto the extended threads

Type D  Different Diameter Splice

Threaded re-bars of different diameters and coupler

Turn re-bars into the coupler to connect

Used to connect re-bars of different diameters by using reducing coupler

### Rebar Pressed Couplers

**Product:** LUV SBT KFX Pressed Coupler, splicing system is designed to connect two bars firmly with each other whenever the overlap length is not sufficient and threading is not possible.

**Splicing Method**

1. The end of the bar should be straight.

2. Mark the reinforcing bar with half coupler's length.

3. Insert the reinforcing bar into the coupler up to mark and press using the special hydraulic pressing machine.

4. Insert the second reinforcing bar into the other half of the coupler & Press.
Approximate Dimensions of LUV SBT KFX Threaded Couplers

<table>
<thead>
<tr>
<th>Bar Dia (mm)</th>
<th>Outer Dia (mm)</th>
<th>Length (mm)</th>
<th>Thread Size (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>16</td>
<td>26</td>
<td>40</td>
<td>M 20x2.5</td>
</tr>
<tr>
<td>20</td>
<td>32</td>
<td>48</td>
<td>M 24x3.0</td>
</tr>
<tr>
<td>25</td>
<td>40</td>
<td>60</td>
<td>M 30x3.5</td>
</tr>
<tr>
<td>32</td>
<td>50</td>
<td>72</td>
<td>M 36x4.0</td>
</tr>
<tr>
<td>40</td>
<td>64</td>
<td>90</td>
<td>M 45x4.5</td>
</tr>
</tbody>
</table>

Approximate Dimensions of LUV SBT KFX Pressing Couplers

<table>
<thead>
<tr>
<th>Bar Dia (mm)</th>
<th>Outer Dia (mm)</th>
<th>Length (mm)</th>
<th>Inside Dia (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>16</td>
<td>33</td>
<td>118</td>
<td>21</td>
</tr>
<tr>
<td>20</td>
<td>40</td>
<td>130</td>
<td>25.5</td>
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<tr>
<td>25</td>
<td>48</td>
<td>150</td>
<td>30.8</td>
</tr>
<tr>
<td>32</td>
<td>60</td>
<td>192</td>
<td>38.8</td>
</tr>
<tr>
<td>40</td>
<td>72</td>
<td>240</td>
<td>46</td>
</tr>
</tbody>
</table>

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Specialized Bar Technology

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