I Conveying and Kneading Elements
COMPONENTS FOR TWIN SCREW EXTRUDERS

I Conveying and Kneading Elements

Conveying and kneading elements irrespective of the extruder manufacturer

We manufacture screw and kneading segments for co-rotating twin screw extruders ranging from 14 mm to 380 mm and over. Our manufacturing specializes in segmented screws for twin screw extruders and is optimized for flexible order handling. We supply quality components at fair terms suitable to the following product lines of extruders:

- W&P: ZSK -SC, -MC, -MV, Continua
- Berstorff: ZE -A, -AUT, -UTX, MPC, DWE
- Leistritz: ZSE, ZSE HP, Micro
- Theysohn: TSK, TSK- HV
- Maris: TM -W, -V
- Clextral: BC, Evolum
- Bühler: DND, BTSE + BCTA

Furthermore we supply suitable spare parts for extruders of the brands Automatik, APV, Brabender, Bandera, Comac, Davis Standard, Japan Steelwork, Freesia Macross, Kurimoto, Osaka Gensokuki, Igma, Toshiba, Thermodrake (the used descriptions can be registered trademarks of the respective OEM).

All we require to provide you with an exact part is the OEM element code and description.

Standard conveying elements with different profiles suitable to each extruder type also belong to our range of products, as well as the regular kneading and mixing components.

We offer a broader choice of materials than most of the OEM’s. By working closely with clients in choosing optimal materials for each process we can minimize wear and tear and associated costs.

Special materials

Beyond the mentioned materials we offer on request all materials suitable for twin screw extruders like Stellite, Hastelloy, Inconell and others as well as various surface coatings.
**Standard conveying kneading and mixing elements**

- **Screw 1-flighted Conveying element**
- **Screw 2-flighted Conveying element**
- **Screw 3-flighted Conveying element**
- **Screw with “Schubkante”**

- **Kneading discs**
- **PSP Polygondisc palate**

- **Kneading block neutral**
- **Kneading block right**
- **Kneading block left**

- **KBX – Kneading block asymmetrical**
- **Tooth block**
- **ZME**
- **SME**

**MATERIALS:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>000</td>
<td>Nitrided steel surface nitrided. Standard screw material, low wear resistance.</td>
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<tr>
<td>005</td>
<td>Chromium steel hardened, standard wear protection with good rust and acid resistance.</td>
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<tr>
<td>112</td>
<td>Chromium steel through-hardened, harder than 005-00, improved wear resistance and good corrosion resistance.</td>
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<tr>
<td>068</td>
<td>Toolsteel through-hardened, improved wear resistance, improved toughness.</td>
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<tr>
<td>V10</td>
<td>Special PM steel (produced by powder metallurgy process) in compound with tough core; high wear resistance, shatter-proof.</td>
</tr>
<tr>
<td>V15</td>
<td>Special PM steel (produced by powder metallurgy process) in compound with tough core; very high wear resistance, shatter-proof.</td>
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<tr>
<td>V25</td>
<td>Special PM steel (produced by powder metallurgy process) in compound with tough core; high wear and corrosion resistance, shatter-proof.</td>
</tr>
<tr>
<td>V35</td>
<td>Special PM steel (produced by powder metallurgy process) in compound with tough core; very high wear resistance, shatter-proof.</td>
</tr>
<tr>
<td>V60</td>
<td>Special PM steel (produced by powder metallurgy process) in compound with tough core; very high wear resistance, shatter-proof.</td>
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<tr>
<td>K28</td>
<td>Rust free steel flights with protection welding. Very high corrosion and good wear resistance.</td>
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Extricom supplies parts beyond the standard with special geometries for process optimization.

We have the broadest scope of extraordinary and special elements for twin screw extruders worldwide.

KBX three-lobe Kneading Block with asymmetrical profile
High melting capacity! The advantages of the intensive homogeneous melting of products apply to all twin screw extruders. This element is especially recommended for the modern high torque extruders.

KBS Shoulder Kneading Block
Gentle, homogeneous melting and advantages in mixing of fillers and reinforcing agents. The homogenisation and the mixing effect is improved by the radial leak flow, shear peaks are avoided.

BS Barrier Screw
Dispersive mixing! Gentle dispersive mixing of fillers and reinforcing agents. Each particle passes the defined barrier gap. This means that every particle will be exposed to a low and well-defined shear stress. The compression and de-compression of the product leads to a complex elongational flow and thereby to a good dispersive mixing effect.

SG Segment Screw
Distributive mixing! Gentle distribution of fillers and reinforcing agents without pressure and shear peaks. Particularly at fully filled areas a high portion of elongational flow will result.

IGEL Mixing Elements
Melt stream dividing! The “Igel” screw provides the distributive mixing of fillers and reinforcing agents.

Drivers’ solutions for typical process technology problems are available, such as the patented elements Shoulder Kneading Block “KBS”, the three-lobe kneading block with asymmetrical profile “KBX”, the Segment Screw “SG”, the Barrier Screw “BS” and others.

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