TXGPA PCD Insert Geometries:
01/02 (finishing)
05 (roughing)
45 (medium roughing)
07 (semi-finishing)
09 (gasket retention)

Shell Mills:
Inch 2.00”-5.00”
Metric 50 mm-125 mm

Cylindrical Shank End Mills:
Inch 1.5”
Metric 40 mm

Monoblock Mills:
Metric 63 mm- 100 mm

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IT.TE.DL.

High Number of PCD Cutting Edges for High Productivity!

Features & Benefits:
• High rigidity double clamping system to support High-Feed machining
• Up to .016” total axial adjustment to ensure an excellent surface finish
• Multiple cutting edge geometries to cover any application, including 90° and 75° lead angle
• 1.5” (40mm) available in cylindrical shank
• 2.0-5.0” (50mm-125mm) range in shell mill or monoblock bodies
• DOC capability of .157” (4mm)
• Ability to re-tip cartridges
During CNC machining the cycle time is very important. To improve the productivity, while maintaining a perfect surface finish, IT.TE.DI. is now introducing the TEDISFEED line with a higher number of cutting edges.

**INTRODUCTION**

The fundamental characteristic, due to the high performance during the process, is the maintaining of the rigidity and stability of the mill and of its components. So, to have those aspects with the high number of cutting edges, we developed a special design cutting edge pack.

When the screw is clamped, it pushes the cartridge towards the mill’s body; once the conical wedge has also been placed in its seat and it has been clamped, it further pushes the cartridge, thus locking it into place and proving better stability.

The precise height is guaranteed from the regulation of the adjusting wedge, that is placed below the cartridges. This product line also offers different cutting edge geometries to satisfy the customers requirements.
**DESIGNATION SYSTEM OF CUTTER BODIES**

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<tr>
<th>PRODUCT LINE</th>
<th>LENGTH</th>
<th>TYPE</th>
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<tr>
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<td>D MILLIMETRES</td>
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| TXG | SC | 25 | D | 040 | - | 08 | - | 00 |

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<th>SHANK TYPE</th>
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| PILOT BORE/THREAD | 22 | 27 | 32 | 40 |

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<th>LENGTH</th>
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<th>DC (90°) Cutting Diameter</th>
<th>DCX (75°) Cutting Diameter Max</th>
<th>OAL Overall Length</th>
<th>ZEFF Eff. Teeth</th>
<th>Holder Shape</th>
<th>DCON Shank Diameter</th>
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Minimum diameter guaranteed with standard inserts. Refer to related table of available cutting geometry for more detail.

1 Part number refers to body only, without inserts.
**CYLINDRICAL SHANK END MILL WITH AXIAL ADJUSTMENT**

Minimum diameter guaranteed with standard inserts. Refer to related table of available cutting geometry for more detail.

1 Part number refers to body only, without inserts.

**MONOBLOCK MILL WITH AXIAL ADJUSTMENT**

Minimum diameter guaranteed with standard inserts. Refer to related table of available cutting geometry for more detail.

1 Part number refers to body only, without inserts.

Monoblock mills available upon request.
**Alternative grades available, please contact IT.TE.DI. for choosing the best grade**

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**Inserts**

**Product Line**
- TXG
- TEDISFEED

**Insert Type**
- A: Scraper
- R: Wiper

**Rotation**
- R: Right
- L: Left

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<th>TXG</th>
<th>P</th>
<th>A</th>
<th>01</th>
<th>R</th>
<th>PB</th>
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**Cutting Material**
- P: PCD
- C: CBN

**Geometry**
- 01
- 02
- 05
- 45
- 07
- 09

**Cutting Edge Grade**
- PB*
- PCB
- CH*
- CBN

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**Geometry**

- **01**
  - For finishing not square shoulder surfaces.
  - Achievable surface: 0.3 ≤ Ra ≤ 0.8

- **02**
  - For finishing square shoulder surfaces.
  - Achievable surface: 0.3 ≤ Ra ≤ 0.8

- **05**
  - For roughing or for cutting material with a high impurity content.
  - Achievable surface: 0.4 ≤ Ra ≤ 1

- **45**
  - Suitable for finishing to medium roughing
  - Achievable surface: 0.4 ≤ Ra < 1

- **07**
  - Suitable for semi-finishing rough surfaces
  - Achievable surface: 0.4 ≤ Ra < 1

- **09**
  - Designed to provide rough surface for gasket retention
  - Achievable surface: 0.8 ≤ Ra ≤ 3.2
## PCD INSERTS

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Availability</th>
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