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# SIMAX 80

Indicative Production per Hour (100 % of capacity)
with TCT blade and bars of 6000 mm length.

- material : Steel 18NiCrMo5
- Cutting speed : 120 m/min
- Blade diameter : Ø280 mm
- N° of teeth: Z 80
- Removal for teeth: 0.07mm
- Blade thickness : 2.26 mm
- Pieces length: 80mm

| Bar diameter Ø (mm) | Cutting time (s) | Downtime (s) | Cycle time (s) | Pieces/hour |
|---|---|---|---|---|
| | | | | |
| **20** | **1.8** | **1.3** | **3.1** | **1150** |
| **30** | **2.5** | **1.4** | **3.9** | **920** |
| **40** | **3.3** | **1.5** | **5.1** | **705** |
| **55** | **4.1** | **1.8** | **5.9** | **610** |
| **65** | **4.6** | **2** | **6.6** | **545** |
| **70** | **5.1** | **2.2** | **7.3** | **490** |
| **80** | **5.8** | **2.5** | **8.3** | **430** |

**NOTE**
The cycle time, is the sum of **cutting time** and **downtime (head movement back + opening and closing vice + feeding considering even the change bar and trim cut ).**
Supposing to cut pieces 80÷100mm long, the downtime will be 2 second.

**BLADE LIFE**
The best TCT blade has a life (measured in square meters) that varies between 50 and 80 m².

**50 m² corresponds to 62.500 pieces Ø 32**
**to 41.500 pieces Ø 40**
**to 21.700 pieces Ø 55**
**to 15.150 pieces Ø 65**
**to 13.000 pieces Ø 70**
**to 10.000 pieces Ø 80**