| Δ 3                                   | 4 5 | 6                | 7 8  | 9 10 11  |
|---------------------------------------|-----|------------------|--|--|
|                                       |     |                  |  | INDEX CHANGES DATE   |
|                                       |     |                  |  |  |
|                                       |     |                  |  |  |
|                                       |     |                  |  |  |
|                                       |     |                  |  |  |
|                                       |     |                  |  |  |
|                                       |     |                  |  | NON TOLERANCED DIMENSIONS    0.5  > 3  > 6  > 30  >   3 6 30 120 4   |
|                                       |     |                  |  | $\pm 0.1 \pm 0.2 \pm 0.3 \pm 0.3$  |
|                                       |     |                  |  | RADII, CHAMFERS $\pm 0.2 \pm 0.5 \pm 1 \pm 1 \pm 1 \pm 1$  |
|                                       |     |                  |  | ANGLES, DIM. OF THE SHORTEF<br>> 10 > 50 > 12<br>bis 105012040<br>± 1° ± 30′ ± 20′ ± 10  |
| OPTIMILL-3D-CR-HARDENED               |     |                  |  | $\frac{100}{\pm}$ $10$ |
| HP818                                 |     |                  |  |  |
|                                       |     |                  |  |  |
|                                       |     |                  |  |  |
|                                       |     | FA .             |  |  |
|                                       |     | 50 <sub>±1</sub> |  | <b>&gt;</b>  |
|                                       | -   | (+0.+0/)         | 10   |  |
|                                       |     |                  |  |  |
|                                       |     |                  |  |  |
| M 100:1                               |     | · · · · · · ·    |  |  |
|                                       |     |                  |  | 51)  |
|                                       |     |                  |  | (Ø0.42   |
|                                       |     |                  |  | DETAIL Z 50:1  |
|                                       |     |                  |  | 0 3+0.05   |
|                                       |     |                  |  | 0.30<br>0.1 <sup>+0.05</sup> CUTTING LENGTH  |
|                                       |     |                  |  |  |
|                                       |     |                  |  | $0^{2^{n}}$  |
| REGRINDING INFO                       |     |                  |  |  |
| TIPO                                  |     |                  |  |  |
| OUTER DIAMETER O                      |     |                  |  | 0.075-0.0<br>0.012   |
|                                       |     |                  |  | φ<br>φ<br>0.1 <sup>-</sup> 0.0<br>0.0<br>0.0   |
| FLUTE O                               |     |                  |  | $\sim$ [   |
| FLUTE O<br>ADDING OF WORKING LENGTH O |     |                  |  |  |
|                                       |     |                  | MAPAL ©<br>FABRIK FUER PRAEZISIONSWERKZEUGE DR. KRESS KG | TITLE<br>OPTIMILL-3D-CR-HARDENED, SHANKFORM HA, SC, COATED   |
| ADDING OF WORKING LENGTH O            |     |                  |  |  |