| 1        | 2                            | 3   | 4 | 5 | 6                     | 7                                       | 8  |                        | 9       | 10  |        | 11   | 12                       |
|----------|------------------------------|-----|---|---|-----------------------|---|--|------------------------|---------|---|--------|--|--------------------------|
|          |                              |     |   |   |                       |   |  |                        | INDEX   | CHANGES                                     |        | DATE   | NAME                     |
|          |                              |     |   |   |                       |   |  |                        | -       |   |        |  |                          |
| A        |                              |     |   |   |                       |   |  |                        |         |   |        |  | A                        |
|          |                              |     |   |   |                       |   |  |                        |         |   |        |  |                          |
|          |                              |     |   |   |                       |   |  |                        |         |   |        |  |                          |
|          |                              |     |   |   |                       |   |  |                        |         |   |        |  |                          |
| В        |                              |     |   |   |                       |   |  |                        |         |   |        | NON TOLERANCED DIMEN      0.5    >    3    >    6    >     3   6   30   12      ±    0.1    ±    0.2    ±    0 | NSIONS<br>30 > 120 > 400 |
|          |                              |     |   |   |                       |   |  |                        |         |   |        | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$  | $2.0 \pm 0.5 \pm 0.8$    |
|          |                              |     |   |   |                       |   |  |                        |         |   |        | ± 0.2 ± 0.5 ± 1 ±<br>ANGLES, DIM. OF THE SH  | INRTER SIDE              |
|          | OPTIMILL-3D-CR,Z=2           |     |   |   |                       |   |  |                        |         |   |        | > 10  > 50    bis 10 50 120    ± 1°  ± 30'  ± 20'  | > 120 > 400<br>400       |
| С        | HP803                        |     |   |   |                       |   |  |                        |         |   |        |  | [                        |
|          |                              |     |   |   |                       |   |  |                        |         |   |        |  |                          |
|          |                              | •   |   |   | 64±1<br>MIN TOOL LENG | ЭТН 57 0                                |  |                        |         |   |        |  |                          |
|          |                              | -   |   |   | (54.8)                | (,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |  |                        |         | 4   |        |  |                          |
| D        |                              |     |   |   |                       |   |  | -                      |         | 9.2°0 CUTTING LE                            | NGTH   |  | D                        |
|          |                              |     |   |   |                       |   |  |                        |         | <i>40</i> 23                                |        |  |                          |
|          |                              | •   |   |   |                       |   |  |                        |         |   |        |  |                          |
|          | 5                            |     |   |   |                       |   |  |                        |         |   |        |  |                          |
| E        | ă ș                          |     |   |   |                       |   |  |                        |         |   |        |  | E                        |
|          |                              | Y L |   |   |                       |   |  |                        |         |   |        |  |                          |
|          | MN-30.46-90                  |     |   |   |                       |   |  |                        |         | Ø 8 f 7                                     |        |  |                          |
|          |                              |     |   |   |                       |   |  |                        |         | 0   |        |  |                          |
| F        |                              |     |   |   |                       |   |  |                        |         |   |        |  | F                        |
|          |                              |     |   |   |                       |   |  |                        |         |   |        |  |                          |
|          |                              |     |   |   |                       |   |  |                        |         |   |        |  |                          |
|          | REGRINDING INFO              |     |   |   |                       |   |  |                        |         |   |        |  |                          |
| C        | TIP                          |     |   |   |                       |   |  |                        |         |   |        |  | C                        |
|          | OUTER DIAMETER 🔍             |     |   |   |                       |   |  |                        |         |   |        |  |                          |
|          | FLUTE <b>O</b>               |     |   |   |                       |   |  |                        |         |   |        |  |                          |
|          | ADDING OF WORKING LENGTH O   |     |   |   |                       |   |  |                        |         |   |        |  |                          |
|          | ADDING OF WORKING DIAMETER O |     |   |   |                       |   | MAPAL ©<br>FABRIK FUER PRAEZISIONS WERKZEUGE DR. KRE<br>ALL RIGHTS FOR THE INVENTIONS, KNOW-HOW, TECHNICA  | ss kg OPTIMI           |         | HANKFORM HA, SC, COATE                      |        | DOCUMENT   | FORMAT<br>A2<br>INDEX    |
|          | DECOATING                    |     |   |   |                       |   | ALL RIGHTS FOR THE INVENTIONS, KNOW-HOW, TECHNICA<br>SOLUTIONS AND DESIGNS SHOWN ON THE DRAWING ARE<br>ENTITLED TO HAPAL ONLY. AS FAR AS MAPAL DID NOT<br>REGISTER PROPERTY RIGHTS HEREUPON YET, MAPAL<br>FORMALLY RESERVES THE RIGHT FOR THE REGISTRATION<br>PROPERTY RIGHTS. THE DRAWING AS WELL AS THE MATT<br>SHOWN ARE STRICTLY CONFIDENTIAL. REPRODUCTIONS M |                        |         | L 2021-11-<br>onswerkzeuge DATE             | 24 SAY | 607408837-000-01-ED1<br>MATERIAL NUMBER  | 00<br>Origin             |
|          | ● YES ● OPTIONAL O NO        |     |   |   |                       |   | SHOWN ARE STRILLET CONTIDENTIAL, REPROJUCTIONS IN<br>ONLY BE MADE FOR THE PURPOSE A GREED UPON. NEITHEF<br>THIS DRAWING NOR COPIES THEREOF MAY BE MADE<br>ACCESSIBLE TO THIRD PARTIES. WITH THE DELIVERY OF T<br>DRAWING NO RIGHT TO USE IT FOR ANY PURPOSE IS GRAI<br>VIOLATIONS AGAINST THE OBLIGATIONS TO SECRECY AND   | HIS<br>TED GENERAL TOL | Dr. Kre | DIMENSIONS NOT SHOWN<br>ARE MAPAL STANDARDS |        | 31153816<br>TECHNICAL SPECIFICATION<br>MCR100-080-0050-X064-HP8  | ALD<br>SHEET<br>03 1/1   |
| BLATT/MA | ΔΡ/ς Δ2                      | 3   | 4 | 5 | 6                     | 7                                       | RESTRICTIONS WILL BE PROSECUTED.   |                        | 9       | ARE MAPAL STANDARDS 10                      | 2 5:1  | MCR100-080-0050-X064-HP8   | 12                       |