

| Drill Dia.<br>D1<br>(mm) | Hole Depth<br>(l/d) | Stock  |  | Order Number   | Dimensions (mm) |    |    |    | Type |
|--------------------------|---------------------|--------|--|----------------|-----------------|----|----|----|------|
|                          |                     | DP1021 |  |                | L1              | L3 | L9 | D4 |      |
| 9.7                      | 3                   | □      |  | MPS1-0970S-DIN | 89              | 47 | 40 | 10 | 4    |
|                          | 3                   | ●      |  | -0970S-DIN-C   | 89              | 47 | 40 | 10 | 2    |
|                          | 5                   | □      |  | -0970L-DIN     | 103             | 62 | 40 | 10 | 4    |
|                          | 5                   | ●      |  | -0970L-DIN-C   | 103             | 62 | 40 | 10 | 2    |
| 9.8                      | 3                   | □      |  | -0980S-DIN     | 89              | 47 | 40 | 10 | 4    |
|                          | 3                   | ●      |  | -0980S-DIN-C   | 89              | 47 | 40 | 10 | 2    |
|                          | 5                   | □      |  | -0980L-DIN     | 103             | 62 | 40 | 10 | 4    |
|                          | 5                   | ●      |  | -0980L-DIN-C   | 103             | 62 | 40 | 10 | 2    |
| 9.9                      | 3                   | □      |  | -0990S-DIN     | 89              | 47 | 40 | 10 | 4    |
|                          | 3                   | ●      |  | -0990S-DIN-C   | 89              | 47 | 40 | 10 | 2    |
|                          | 5                   | □      |  | -0990L-DIN     | 103             | 62 | 40 | 10 | 4    |
|                          | 5                   | ●      |  | -0990L-DIN-C   | 103             | 62 | 40 | 10 | 2    |
| 10.0                     | 3                   | □      |  | -1000S-DIN     | 89              | 47 | 40 | 10 | 4    |
|                          | 3                   | ●      |  | -1000S-DIN-C   | 89              | 47 | 40 | 10 | 2    |
|                          | 5                   | □      |  | -1000L-DIN     | 103             | 62 | 40 | 10 | 4    |
|                          | 5                   | ●      |  | -1000L-DIN-C   | 103             | 62 | 40 | 10 | 2    |
| 10.05                    | 3                   | □      |  | -1005S-DIN     | 102             | 55 | 45 | 12 | 4    |
|                          | 3                   | ●      |  | -1005S-DIN-C   | 102             | 55 | 45 | 12 | 2    |
|                          | 5                   | □      |  | -1005L-DIN     | 118             | 71 | 45 | 12 | 4    |
|                          | 5                   | ●      |  | -1005L-DIN-C   | 118             | 71 | 45 | 12 | 2    |
| 10.1                     | 3                   | □      |  | -1010S-DIN     | 102             | 55 | 45 | 12 | 4    |
|                          | 3                   | ●      |  | -1010S-DIN-C   | 102             | 55 | 45 | 12 | 2    |
|                          | 5                   | □      |  | -1010L-DIN     | 118             | 71 | 45 | 12 | 4    |
|                          | 5                   | ●      |  | -1010L-DIN-C   | 118             | 71 | 45 | 12 | 2    |
| 10.2                     | 3                   | □      |  | -1020S-DIN     | 102             | 55 | 45 | 12 | 4    |
|                          | 3                   | ●      |  | -1020S-DIN-C   | 102             | 55 | 45 | 12 | 2    |
|                          | 5                   | □      |  | -1020L-DIN     | 118             | 71 | 45 | 12 | 4    |
|                          | 5                   | ●      |  | -1020L-DIN-C   | 118             | 71 | 45 | 12 | 2    |
| 10.3                     | 3                   | □      |  | -1030S-DIN     | 102             | 55 | 45 | 12 | 4    |
|                          | 3                   | ●      |  | -1030S-DIN-C   | 102             | 55 | 45 | 12 | 2    |
|                          | 5                   | □      |  | -1030L-DIN     | 118             | 71 | 45 | 12 | 4    |
|                          | 5                   | ●      |  | -1030L-DIN-C   | 118             | 71 | 45 | 12 | 2    |
| 10.4                     | 3                   | □      |  | -1040S-DIN     | 102             | 55 | 45 | 12 | 4    |
|                          | 3                   | ●      |  | -1040S-DIN-C   | 102             | 55 | 45 | 12 | 2    |
|                          | 5                   | □      |  | -1040L-DIN     | 118             | 71 | 45 | 12 | 4    |
|                          | 5                   | ●      |  | -1040L-DIN-C   | 118             | 71 | 45 | 12 | 2    |
| 10.5                     | 3                   | □      |  | -1050S-DIN     | 102             | 55 | 45 | 12 | 4    |
|                          | 3                   | ●      |  | -1050S-DIN-C   | 102             | 55 | 45 | 12 | 2    |
|                          | 5                   | □      |  | -1050L-DIN     | 118             | 71 | 45 | 12 | 4    |
|                          | 5                   | ●      |  | -1050L-DIN-C   | 118             | 71 | 45 | 12 | 2    |
| 10.6                     | 3                   | □      |  | -1060S-DIN     | 102             | 55 | 45 | 12 | 4    |
|                          | 3                   | ●      |  | -1060S-DIN-C   | 102             | 55 | 45 | 12 | 2    |
|                          | 5                   | □      |  | -1060L-DIN     | 118             | 71 | 45 | 12 | 4    |
|                          | 5                   | ●      |  | -1060L-DIN-C   | 118             | 71 | 45 | 12 | 2    |
| 10.7                     | 3                   | □      |  | -1070S-DIN     | 102             | 55 | 45 | 12 | 4    |
|                          | 3                   | ●      |  | -1070S-DIN-C   | 102             | 55 | 45 | 12 | 2    |
|                          | 5                   | □      |  | -1070L-DIN     | 118             | 71 | 45 | 12 | 4    |
|                          | 5                   | ●      |  | -1070L-DIN-C   | 118             | 71 | 45 | 12 | 2    |
| 10.8                     | 3                   | □      |  | -1080S-DIN     | 102             | 55 | 45 | 12 | 4    |
|                          | 3                   | ●      |  | -1080S-DIN-C   | 102             | 55 | 45 | 12 | 2    |
|                          | 5                   | □      |  | -1080L-DIN     | 118             | 71 | 45 | 12 | 4    |
|                          | 5                   | ●      |  | -1080L-DIN-C   | 118             | 71 | 45 | 12 | 2    |
| 10.9                     | 3                   | □      |  | -1090S-DIN     | 102             | 55 | 45 | 12 | 4    |
|                          | 3                   | ●      |  | -1090S-DIN-C   | 102             | 55 | 45 | 12 | 2    |
|                          | 5                   | □      |  | -1090L-DIN     | 118             | 71 | 45 | 12 | 4    |
|                          | 5                   | ●      |  | -1090L-DIN-C   | 118             | 71 | 45 | 12 | 2    |

| Drill Dia.<br>D1<br>(mm) | Hole Depth<br>(l/d) | Stock  |  | Order Number   | Dimensions (mm) |    |    |    | Type |
|--------------------------|---------------------|--------|--|----------------|-----------------|----|----|----|------|
|                          |                     | DP1021 |  |                | L1              | L3 | L9 | D4 |      |
| 11.0                     | 3                   | □      |  | MPS1-1100S-DIN | 102             | 55 | 45 | 12 | 4    |
|                          | 3                   | ●      |  | -1100S-DIN-C   | 102             | 55 | 45 | 12 | 2    |
|                          | 5                   | □      |  | -1100L-DIN     | 118             | 71 | 45 | 12 | 4    |
|                          | 5                   | ●      |  | -1100L-DIN-C   | 118             | 71 | 45 | 12 | 2    |
| 11.1                     | 3                   | □      |  | -1110S-DIN     | 102             | 55 | 45 | 12 | 4    |
|                          | 3                   | ●      |  | -1110S-DIN-C   | 102             | 55 | 45 | 12 | 2    |
|                          | 5                   | □      |  | -1110L-DIN     | 118             | 71 | 45 | 12 | 4    |
|                          | 5                   | ●      |  | -1110L-DIN-C   | 118             | 71 | 45 | 12 | 2    |
| 11.2                     | 3                   | □      |  | -1120S-DIN     | 102             | 55 | 45 | 12 | 4    |
|                          | 3                   | ●      |  | -1120S-DIN-C   | 102             | 55 | 45 | 12 | 2    |
|                          | 5                   | □      |  | -1120L-DIN     | 118             | 71 | 45 | 12 | 4    |
|                          | 5                   | ●      |  | -1120L-DIN-C   | 118             | 71 | 45 | 12 | 2    |
| 11.3                     | 3                   | □      |  | -1130S-DIN     | 102             | 55 | 45 | 12 | 4    |
|                          | 3                   | ●      |  | -1130S-DIN-C   | 102             | 55 | 45 | 12 | 2    |
|                          | 5                   | □      |  | -1130L-DIN     | 118             | 71 | 45 | 12 | 4    |
|                          | 5                   | ●      |  | -1130L-DIN-C   | 118             | 71 | 45 | 12 | 2    |
| 11.4                     | 3                   | □      |  | -1140S-DIN     | 102             | 55 | 45 | 12 | 4    |
|                          | 3                   | ●      |  | -1140S-DIN-C   | 102             | 55 | 45 | 12 | 2    |
|                          | 5                   | □      |  | -1140L-DIN     | 118             | 71 | 45 | 12 | 4    |
|                          | 5                   | ●      |  | -1140L-DIN-C   | 118             | 71 | 45 | 12 | 2    |
| 11.5                     | 3                   | □      |  | -1150S-DIN     | 102             | 55 | 45 | 12 | 4    |
|                          | 3                   | ●      |  | -1150S-DIN-C   | 102             | 55 | 45 | 12 | 2    |
|                          | 5                   | □      |  | -1150L-DIN     | 118             | 71 | 45 | 12 | 4    |
|                          | 5                   | ●      |  | -1150L-DIN-C   | 118             | 71 | 45 | 12 | 2    |
| 11.6                     | 3                   | □      |  | -1160S-DIN     | 102             | 55 | 45 | 12 | 4    |
|                          | 3                   | ●      |  | -1160S-DIN-C   | 102             | 55 | 45 | 12 | 2    |
|                          | 5                   | □      |  | -1160L-DIN     | 118             | 71 | 45 | 12 | 4    |
|                          | 5                   | ●      |  | -1160L-DIN-C   | 118             | 71 | 45 | 12 | 2    |
| 11.7                     | 3                   | □      |  | -1170S-DIN     | 102             | 55 | 45 | 12 | 4    |
|                          | 3                   | ●      |  | -1170S-DIN-C   | 102             | 55 | 45 | 12 | 2    |
|                          | 5                   | □      |  | -1170L-DIN     | 118             | 71 | 45 | 12 | 4    |
|                          | 5                   | ●      |  | -1170L-DIN-C   | 118             | 71 | 45 | 12 | 2    |
| 11.8                     | 3                   | □      |  | -1180S-DIN     | 102             | 55 | 45 | 12 | 4    |
|                          | 3                   | ●      |  | -1180S-DIN-C   | 102             | 55 | 45 | 12 | 2    |
|                          | 5                   | □      |  | -1180L-DIN     | 118             | 71 | 45 | 12 | 4    |
|                          | 5                   | ●      |  | -1180L-DIN-C   | 118             | 71 | 45 | 12 | 2    |
| 11.9                     | 3                   | □      |  | -1190S-DIN     | 102             | 55 | 45 | 12 | 4    |
|                          | 3                   | ●      |  | -1190S-DIN-C   | 102             | 55 | 45 | 12 | 2    |
|                          | 5                   | □      |  | -1190L-DIN     | 118             | 71 | 45 | 12 | 4    |
|                          | 5                   | ●      |  | -1190L-DIN-C   | 118             | 71 | 45 | 12 | 2    |
| 12.0                     | 3                   | □      |  | -1200S-DIN     | 102             | 55 | 45 | 12 | 4    |
|                          | 3                   | ●      |  | -1200S-DIN-C   | 102             | 55 | 45 | 12 | 2    |
|                          | 5                   | □      |  | -1200L-DIN     | 118             | 71 | 45 | 12 | 4    |
|                          | 5                   | ●      |  | -1200L-DIN-C   | 118             | 71 | 45 | 12 | 2    |
| 12.05                    | 3                   | □      |  | -1205S-DIN     | 107             | 60 | 45 | 14 | 4    |
|                          | 3                   | ●      |  | -1205S-DIN-C   | 107             | 60 | 45 | 14 | 2    |
|                          | 5                   | □      |  | -1205L-DIN     | 124             | 77 | 45 | 14 | 4    |
|                          | 5                   | ●      |  | -1205L-DIN-C   | 124             | 77 | 45 | 14 | 2    |
| 12.1                     | 3                   | □      |  | -1210S-DIN     | 107             | 60 | 45 | 14 | 4    |
|                          | 3                   | ●      |  | -1210S-DIN-C   | 107             | 60 | 45 | 14 | 2    |
|                          | 5                   | □      |  | -1210L-DIN     | 124             | 77 | 45 | 14 | 4    |
|                          | 5                   | ●      |  | -1210L-DIN-C   | 124             | 77 | 45 | 14 | 2    |
| 12.2                     | 3                   | □      |  | -1220S-DIN     | 107             | 60 | 45 | 14 | 4    |
|                          | 3                   | ●      |  | -1220S-DIN-C   | 107             | 60 | 45 | 14 | 2    |
|                          | 5                   | □      |  | -1220L-DIN     | 124             | 77 | 45 | 14 | 4    |
|                          | 5                   | ●      |  | -1220L-DIN-C   | 124             | 77 | 45 | 14 | 2    |

CUTTING CONDITIONS > L033  
 OPERATION GUIDANCE > L034  
 TECHNICAL DATA > N001

DRILLING