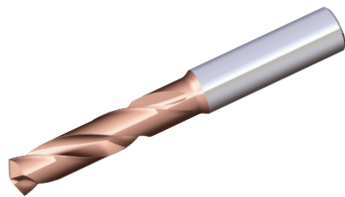
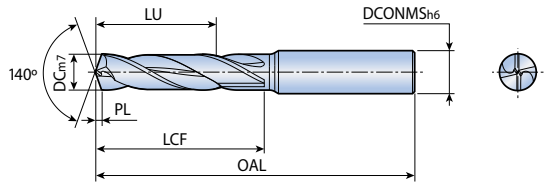


DURACARB SOLUTIONS  
**SOLID DRILL**



외부 급유형 초경 드릴

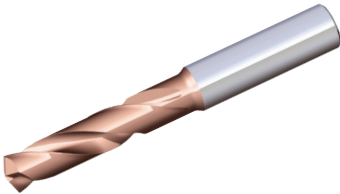
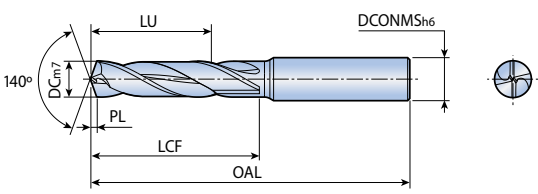


•가공 깊이: 3xD(직경)

| 규격   |         | 치수 (mm) |        |     |    |     |     | 재종     |
|------|---------|---------|--------|-----|----|-----|-----|--------|
|      |         | DC      | DCONMS | OAL | LU | LCF | PL  | DP5130 |
| SDEC | NS030-4 | 3.0     | 4      | 62  | 11 | 18  | 0.5 | ●      |
|      | NS031-4 | 3.1     | 4      | 62  | 11 | 18  | 0.5 | ●      |
|      | NS032-4 | 3.2     | 4      | 62  | 11 | 18  | 0.5 | ●      |
|      | NS033-4 | 3.3     | 4      | 62  | 11 | 18  | 0.5 | ●      |
|      | NS034-4 | 3.4     | 4      | 62  | 11 | 18  | 0.5 | ●      |
|      | NS035-4 | 3.5     | 4      | 62  | 11 | 18  | 0.6 | ●      |
|      | NS036-4 | 3.6     | 4      | 62  | 11 | 18  | 0.6 | ●      |
|      | NS037-4 | 3.7     | 4      | 62  | 11 | 18  | 0.6 | ●      |
|      | NS038-4 | 3.8     | 4      | 66  | 10 | 18  | 0.6 | ●      |
|      | NS039-4 | 3.9     | 4      | 66  | 10 | 18  | 0.6 | ●      |
|      | NS040-4 | 4.0     | 4      | 66  | 10 | 18  | 0.6 | ●      |
|      | NS041-5 | 4.1     | 5      | 66  | 19 | 27  | 0.7 | ●      |
|      | NS042-5 | 4.2     | 5      | 66  | 19 | 27  | 0.7 | ●      |
|      | NS043-5 | 4.3     | 5      | 66  | 19 | 27  | 0.7 | ●      |
|      | NS044-5 | 4.4     | 5      | 66  | 19 | 27  | 0.7 | ●      |
|      | NS045-5 | 4.5     | 5      | 66  | 19 | 27  | 0.7 | ●      |
|      | NS046-5 | 4.6     | 5      | 66  | 19 | 27  | 0.8 | ●      |
|      | NS047-5 | 4.7     | 5      | 66  | 19 | 27  | 0.8 | ●      |
|      | NS048-5 | 4.8     | 5      | 66  | 18 | 27  | 0.8 | ●      |
|      | NS049-5 | 4.9     | 5      | 66  | 18 | 27  | 0.8 | ●      |
|      | NS050-5 | 5.0     | 5      | 66  | 18 | 27  | 0.8 | ●      |
|      | NS051-6 | 5.1     | 6      | 66  | 22 | 31  | 0.8 | ●      |
|      | NS052-6 | 5.2     | 6      | 66  | 22 | 31  | 0.8 | ●      |
|      | NS053-6 | 5.3     | 6      | 66  | 22 | 31  | 0.8 | ●      |
|      | NS054-6 | 5.4     | 6      | 66  | 22 | 31  | 0.8 | ●      |
|      | NS055-6 | 5.5     | 6      | 66  | 22 | 31  | 0.9 | ●      |
|      | NS056-6 | 5.6     | 6      | 66  | 22 | 31  | 0.9 | ●      |
|      | NS057-6 | 5.7     | 6      | 66  | 22 | 31  | 0.9 | ●      |
|      | NS058-6 | 5.8     | 6      | 66  | 22 | 31  | 0.9 | ●      |
|      | NS059-6 | 5.9     | 6      | 66  | 22 | 31  | 0.9 | ●      |
|      | NS060-6 | 6.0     | 6      | 66  | 22 | 31  | 0.9 | ●      |
|      | NS061-7 | 6.1     | 7      | 79  | 26 | 37  | 1   | ●      |
|      | NS062-7 | 6.2     | 7      | 79  | 26 | 37  | 1   | ●      |
|      | NS063-7 | 6.3     | 7      | 79  | 26 | 37  | 1   | ●      |
|      |         |         |        |     |    |     |     |        |
|      |         |         |        |     |    |     |     |        |

● : 표준 제품

외부 급유형 초경 드릴

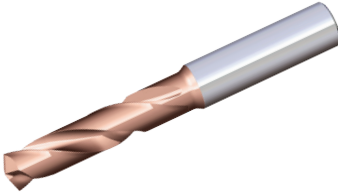
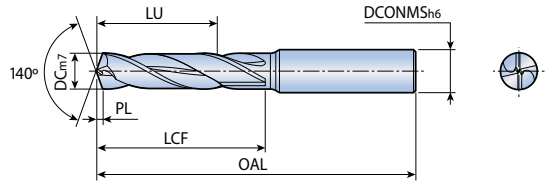


• 가공 깊이: 3xD(직경)

| 규격   |          | 치수 (mm) |        |     |    |     |     | 재종     |
|------|----------|---------|--------|-----|----|-----|-----|--------|
|      |          | DC      | DCONMS | OAL | LU | LCF | PL  | DP5130 |
| SDEC | NS064-7  | 6.4     | 7      | 79  | 26 | 37  | 1   | ●      |
|      | NS065-7  | 6.5     | 7      | 79  | 26 | 37  | 1   | ●      |
|      | NS066-7  | 6.6     | 7      | 79  | 26 | 37  | 1   | ●      |
|      | NS067-7  | 6.7     | 7      | 79  | 26 | 37  | 1.1 | ●      |
|      | NS068-7  | 6.8     | 7      | 79  | 26 | 37  | 1.1 | ●      |
|      | NS069-7  | 6.9     | 7      | 79  | 26 | 37  | 1.1 | ●      |
|      | NS070-7  | 7.0     | 7      | 79  | 26 | 37  | 1.1 | ●      |
|      | NS071-8  | 7.1     | 8      | 79  | 28 | 41  | 1.1 | ●      |
|      | NS072-8  | 7.2     | 8      | 79  | 28 | 41  | 1.1 | ●      |
|      | NS073-8  | 7.3     | 8      | 79  | 28 | 41  | 1.1 | ●      |
|      | NS074-8  | 7.4     | 8      | 79  | 28 | 41  | 1.2 | ●      |
|      | NS075-8  | 7.5     | 8      | 79  | 28 | 41  | 1.2 | ●      |
|      | NS076-8  | 7.6     | 8      | 79  | 28 | 41  | 1.2 | ●      |
|      | NS077-8  | 7.7     | 8      | 79  | 28 | 41  | 1.2 | ●      |
|      | NS078-8  | 7.8     | 8      | 79  | 28 | 41  | 1.2 | ●      |
|      | NS079-8  | 7.9     | 8      | 79  | 28 | 41  | 1.3 | ●      |
|      | NS080-8  | 8.0     | 8      | 79  | 28 | 41  | 1.3 | ●      |
|      | NS081-9  | 8.1     | 9      | 89  | 32 | 45  | 1.3 | ●      |
|      | NS082-9  | 8.2     | 9      | 89  | 32 | 45  | 1.3 | ●      |
|      | NS083-9  | 8.3     | 9      | 89  | 32 | 45  | 1.3 | ●      |
|      | NS084-9  | 8.4     | 9      | 89  | 32 | 45  | 1.3 | ●      |
|      | NS085-9  | 8.5     | 9      | 89  | 32 | 45  | 1.3 | ●      |
|      | NS086-9  | 8.6     | 9      | 89  | 32 | 45  | 1.4 | ●      |
|      | NS087-9  | 8.7     | 9      | 89  | 32 | 45  | 1.4 | ●      |
|      | NS088-9  | 8.8     | 9      | 89  | 32 | 45  | 1.4 | ●      |
|      | NS089-9  | 8.9     | 9      | 89  | 32 | 45  | 1.4 | ●      |
|      | NS090-9  | 9.0     | 9      | 89  | 32 | 45  | 1.4 | ●      |
|      | NS091-10 | 9.1     | 10     | 89  | 35 | 48  | 1.4 | ●      |
|      | NS092-10 | 9.2     | 10     | 89  | 35 | 48  | 1.4 | ●      |
|      | NS093-10 | 9.3     | 10     | 89  | 35 | 48  | 1.5 | ●      |
|      | NS094-10 | 9.4     | 10     | 89  | 35 | 48  | 1.5 | ●      |
|      | NS095-10 | 9.5     | 10     | 89  | 35 | 48  | 1.5 | ●      |
|      | NS096-10 | 9.6     | 10     | 89  | 35 | 48  | 1.5 | ●      |
|      | NS097-10 | 9.7     | 10     | 89  | 35 | 48  | 1.5 | ●      |
|      |          |         |        |     |    |     |     |        |
|      |          |         |        |     |    |     |     |        |

● : 표준 제품

## 외부 급유형 초경 드릴

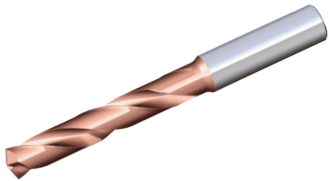
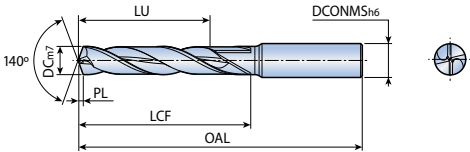


- 가공 깊이: 3xD(직경)

[illegible]

● : 표준 제품

외부 급유형 초경 드릴

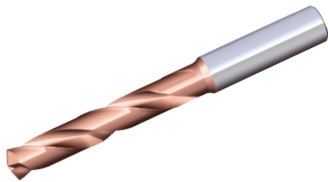
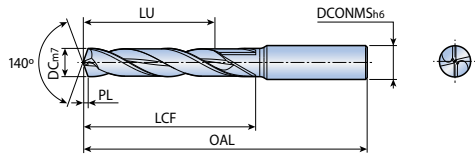


• 가공 깊이: 5xD(직경)

| 규격   |         | 치수 (mm) |        |     |    |     |     | 재종     |
|------|---------|---------|--------|-----|----|-----|-----|--------|
|      |         | DC      | DCONMS | OAL | LU | LCF | PL  | DP5130 |
| SDEC | NR030-4 | 3.0     | 4      | 66  | 24 | 30  | 0.5 | ●      |
|      | NR031-4 | 3.1     | 4      | 66  | 24 | 30  | 0.5 | ●      |
|      | NR032-4 | 3.2     | 4      | 66  | 24 | 30  | 0.5 | ●      |
|      | NR033-4 | 3.3     | 4      | 66  | 24 | 30  | 0.5 | ●      |
|      | NR034-4 | 3.4     | 4      | 66  | 24 | 30  | 0.5 | ●      |
|      | NR035-4 | 3.5     | 4      | 66  | 24 | 30  | 0.6 | ●      |
|      | NR036-4 | 3.6     | 4      | 66  | 24 | 30  | 0.6 | ●      |
|      | NR037-4 | 3.7     | 4      | 66  | 24 | 30  | 0.6 | ●      |
|      | NR038-4 | 3.8     | 4      | 74  | 22 | 30  | 0.6 | ●      |
|      | NR039-4 | 3.9     | 4      | 74  | 22 | 30  | 0.6 | ●      |
|      | NR040-4 | 4.0     | 4      | 74  | 22 | 30  | 0.6 | ●      |
|      | NR041-5 | 4.1     | 5      | 74  | 32 | 40  | 0.7 | ●      |
|      | NR042-5 | 4.2     | 5      | 74  | 32 | 40  | 0.7 | ●      |
|      | NR043-5 | 4.3     | 5      | 74  | 32 | 40  | 0.7 | ●      |
|      | NR044-5 | 4.4     | 5      | 74  | 32 | 40  | 0.7 | ●      |
|      | NR045-5 | 4.5     | 5      | 74  | 32 | 40  | 0.7 | ●      |
|      | NR046-5 | 4.6     | 5      | 74  | 32 | 40  | 0.7 | ●      |
|      | NR047-5 | 4.7     | 5      | 74  | 32 | 40  | 0.8 | ●      |
|      | NR048-5 | 4.8     | 5      | 82  | 30 | 40  | 0.8 | ●      |
|      | NR049-5 | 4.9     | 5      | 82  | 30 | 40  | 0.8 | ●      |
|      | NR050-5 | 5.0     | 5      | 82  | 30 | 40  | 0.8 | ●      |
|      | NR051-6 | 5.1     | 6      | 82  | 35 | 45  | 0.8 | ●      |
|      | NR052-6 | 5.2     | 6      | 82  | 35 | 45  | 0.8 | ●      |
|      | NR053-6 | 5.3     | 6      | 82  | 35 | 45  | 0.8 | ●      |
|      | NR054-6 | 5.4     | 6      | 82  | 35 | 45  | 0.8 | ●      |
|      | NR055-6 | 5.5     | 6      | 82  | 35 | 45  | 0.9 | ●      |
|      | NR056-6 | 5.6     | 6      | 82  | 35 | 45  | 0.9 | ●      |
|      | NR057-6 | 5.7     | 6      | 82  | 35 | 45  | 0.9 | ●      |
|      | NR058-6 | 5.8     | 6      | 82  | 35 | 45  | 0.9 | ●      |
|      | NR059-6 | 5.9     | 6      | 82  | 35 | 45  | 0.9 | ●      |
|      | NR060-6 | 6.0     | 6      | 82  | 35 | 45  | 0.9 | ●      |
|      | NR061-7 | 6.1     | 7      | 91  | 37 | 48  | 1   | ●      |
|      | NR062-7 | 6.2     | 7      | 91  | 37 | 48  | 1   | ●      |
|      | NR063-7 | 6.3     | 7      | 91  | 37 | 48  | 1   | ●      |
|      |         |         |        |     |    |     |     |        |
|      |         |         |        |     |    |     |     |        |

● : 표준 제품

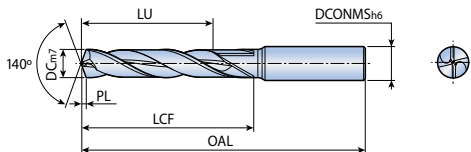
외부 급유형 초경 드릴



• 가공 깊이: 5xD(직경)

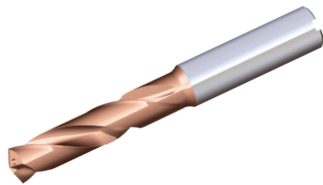
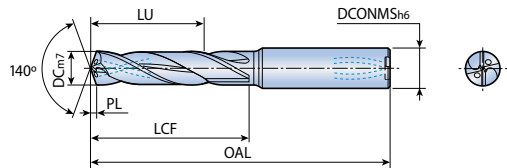
| 규격   |          | 치수 (mm) |        |     |    |     |     | 재종     |
|------|----------|---------|--------|-----|----|-----|-----|--------|
|      |          | DC      | DCONMS | OAL | LU | LCF | PL  | DP5130 |
| SDEC | NR064-7  | 6.4     | 7      | 91  | 37 | 48  | 1   | ●      |
|      | NR065-7  | 6.5     | 7      | 91  | 37 | 48  | 1   | ●      |
|      | NR066-7  | 6.6     | 7      | 91  | 37 | 48  | 1   | ●      |
|      | NR067-7  | 6.7     | 7      | 91  | 37 | 48  | 1.1 | ●      |
|      | NR068-7  | 6.8     | 7      | 91  | 37 | 48  | 1.1 | ●      |
|      | NR069-7  | 6.9     | 7      | 91  | 37 | 48  | 1.1 | ●      |
|      | NR070-7  | 7.0     | 7      | 91  | 37 | 48  | 1.1 | ●      |
|      | NR071-8  | 7.1     | 8      | 91  | 42 | 53  | 1.1 | ●      |
|      | NR072-8  | 7.2     | 8      | 91  | 42 | 53  | 1.1 | ●      |
|      | NR073-8  | 7.3     | 8      | 91  | 42 | 53  | 1.1 | ●      |
|      | NR074-8  | 7.4     | 8      | 91  | 42 | 53  | 1.2 | ●      |
|      | NR075-8  | 7.5     | 8      | 91  | 42 | 53  | 1.2 | ●      |
|      | NR076-8  | 7.6     | 8      | 91  | 42 | 53  | 1.2 | ●      |
|      | NR077-8  | 7.7     | 8      | 91  | 42 | 53  | 1.2 | ●      |
|      | NR078-8  | 7.8     | 8      | 91  | 42 | 53  | 1.2 | ●      |
|      | NR079-8  | 7.9     | 8      | 91  | 42 | 53  | 1.3 | ●      |
|      | NR080-8  | 8.0     | 8      | 91  | 42 | 53  | 1.3 | ●      |
|      | NR081-9  | 8.1     | 9      | 103 | 46 | 59  | 1.3 | ●      |
|      | NR082-9  | 8.2     | 9      | 103 | 46 | 59  | 1.3 | ●      |
|      | NR083-9  | 8.3     | 9      | 103 | 46 | 59  | 1.3 | ●      |
|      | NR084-9  | 8.4     | 9      | 103 | 46 | 59  | 1.3 | ●      |
|      | NR085-9  | 8.5     | 9      | 103 | 46 | 59  | 1.3 | ●      |
|      | NR086-9  | 8.6     | 9      | 103 | 46 | 59  | 1.4 | ●      |
|      | NR087-9  | 8.7     | 9      | 103 | 46 | 59  | 1.4 | ●      |
|      | NR088-9  | 8.8     | 9      | 103 | 46 | 59  | 1.4 | ●      |
|      | NR089-9  | 8.9     | 9      | 103 | 46 | 59  | 1.4 | ●      |
|      | NR090-9  | 9.0     | 9      | 103 | 46 | 59  | 1.4 | ●      |
|      | NR091-10 | 9.1     | 10     | 103 | 50 | 63  | 1.4 | ●      |
|      | NR092-10 | 9.2     | 10     | 103 | 50 | 63  | 1.4 | ●      |
|      | NR093-10 | 9.3     | 10     | 103 | 50 | 63  | 1.5 | ●      |
|      | NR094-10 | 9.4     | 10     | 103 | 50 | 63  | 1.5 | ●      |
|      | NR095-10 | 9.5     | 10     | 103 | 50 | 63  | 1.5 | ●      |
|      | NR096-10 | 9.6     | 10     | 103 | 50 | 63  | 1.5 | ●      |
|      | NR097-10 | 9.7     | 10     | 103 | 50 | 63  | 1.5 | ●      |
|      |          |         |        |     |    |     |     |        |
|      |          |         |        |     |    |     |     |        |

● : 표준 제품

[illegible]

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내부 급유형 초경 드릴

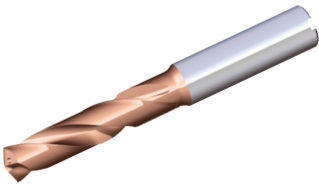
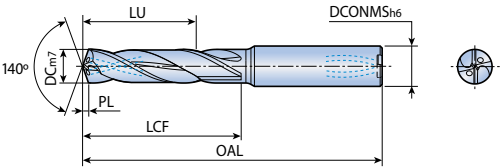


• 가공 깊이: 3xD(직경)

| 규격           | 치수 (mm) |        |     |    |     |     | 재종     |
|--------------|---------|--------|-----|----|-----|-----|--------|
|              | DC      | DCONMS | OAL | LU | LCF | PL  | DP5130 |
| SDEC OS030-6 | 3.0     | 6      | 62  | 11 | 18  | 0.5 | ●      |
| OS031-6      | 3.1     | 6      | 62  | 11 | 18  | 0.5 | ●      |
| OS032-6      | 3.2     | 6      | 62  | 11 | 18  | 0.5 | ●      |
| OS033-6      | 3.3     | 6      | 62  | 11 | 18  | 0.5 | ●      |
| OS034-6      | 3.4     | 6      | 62  | 11 | 18  | 0.5 | ●      |
| OS035-6      | 3.5     | 6      | 62  | 11 | 18  | 0.6 | ●      |
| OS036-6      | 3.6     | 6      | 62  | 11 | 18  | 0.6 | ●      |
| OS037-6      | 3.7     | 6      | 62  | 11 | 18  | 0.6 | ●      |
| OS038-6      | 3.8     | 6      | 66  | 10 | 18  | 0.6 | ●      |
| OS039-6      | 3.9     | 6      | 66  | 10 | 18  | 0.6 | ●      |
| OS040-6      | 4.0     | 6      | 66  | 10 | 18  | 0.6 | ●      |
| OS041-6      | 4.1     | 6      | 66  | 19 | 27  | 0.7 | ●      |
| OS042-6      | 4.2     | 6      | 66  | 19 | 27  | 0.7 | ●      |
| OS043-6      | 4.3     | 6      | 66  | 19 | 27  | 0.7 | ●      |
| OS044-6      | 4.4     | 6      | 66  | 19 | 27  | 0.7 | ●      |
| OS045-6      | 4.5     | 6      | 66  | 19 | 27  | 0.7 | ●      |
| OS046-6      | 4.6     | 6      | 66  | 19 | 27  | 0.8 | ●      |
| OS047-6      | 4.7     | 6      | 66  | 19 | 27  | 0.8 | ●      |
| OS048-6      | 4.8     | 6      | 66  | 18 | 27  | 0.8 | ●      |
| OS049-6      | 4.9     | 6      | 66  | 18 | 27  | 0.8 | ●      |
| OS050-6      | 5.0     | 6      | 66  | 18 | 27  | 0.8 | ●      |
| OS051-6      | 5.1     | 6      | 66  | 22 | 31  | 0.8 | ●      |
| OS052-6      | 5.2     | 6      | 66  | 22 | 31  | 0.8 | ●      |
| OS053-6      | 5.3     | 6      | 66  | 22 | 31  | 0.8 | ●      |
| OS054-6      | 5.4     | 6      | 66  | 22 | 31  | 0.8 | ●      |
| OS055-6      | 5.5     | 6      | 66  | 22 | 31  | 0.9 | ●      |
| OS056-6      | 5.6     | 6      | 66  | 22 | 31  | 0.9 | ●      |
| OS057-6      | 5.7     | 6      | 66  | 22 | 31  | 0.9 | ●      |
| OS058-6      | 5.8     | 6      | 66  | 22 | 31  | 0.9 | ●      |
| OS059-6      | 5.9     | 6      | 66  | 22 | 31  | 0.9 | ●      |
| OS060-6      | 6.0     | 6      | 66  | 22 | 31  | 0.9 | ●      |
| OS061-7      | 6.1     | 7      | 79  | 26 | 37  | 1   | ●      |
| OS062-7      | 6.2     | 7      | 79  | 26 | 37  | 1   | ●      |
| OS063-7      | 6.3     | 7      | 79  | 26 | 37  | 1   | ●      |
|              |         |        |     |    |     |     |        |
|              |         |        |     |    |     |     |        |

● : 표준 제품

내부 급유형 초경 드릴

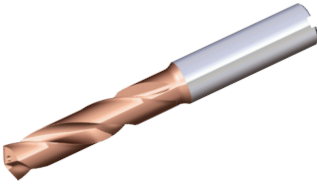
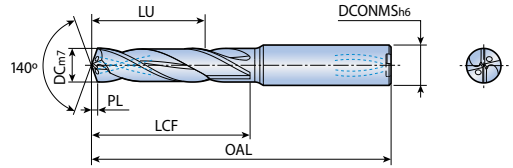


가공 깊이: 3xD(직경)

| 규격   |          | 치수 (mm) |        |     |    |     |     | 재종     |
|------|----------|---------|--------|-----|----|-----|-----|--------|
|      |          | DC      | DCONMS | OAL | LU | LCF | PL  | DP5130 |
| SDEC | OS064-7  | 6.4     | 7      | 79  | 26 | 37  | 1   | ●      |
|      | OS065-7  | 6.5     | 7      | 79  | 26 | 37  | 1   | ●      |
|      | OS066-7  | 6.6     | 7      | 79  | 26 | 37  | 1   | ●      |
|      | OS067-7  | 6.7     | 7      | 79  | 26 | 37  | 1.1 | ●      |
|      | OS068-7  | 6.8     | 7      | 79  | 26 | 37  | 1.1 | ●      |
|      | OS069-7  | 6.9     | 7      | 79  | 26 | 37  | 1.1 | ●      |
|      | OS070-7  | 7.0     | 7      | 79  | 26 | 37  | 1.1 | ●      |
|      | OS071-8  | 7.1     | 8      | 79  | 28 | 41  | 1.1 | ●      |
|      | OS072-8  | 7.2     | 8      | 79  | 28 | 41  | 1.1 | ●      |
|      | OS073-8  | 7.3     | 8      | 79  | 28 | 41  | 1.1 | ●      |
|      | OS074-8  | 7.4     | 8      | 79  | 28 | 41  | 1.2 | ●      |
|      | OS075-8  | 7.5     | 8      | 79  | 28 | 41  | 1.2 | ●      |
|      | OS076-8  | 7.6     | 8      | 79  | 28 | 41  | 1.2 | ●      |
|      | OS077-8  | 7.7     | 8      | 79  | 28 | 41  | 1.2 | ●      |
|      | OS078-8  | 7.8     | 8      | 79  | 28 | 41  | 1.2 | ●      |
|      | OS079-8  | 7.9     | 8      | 79  | 28 | 41  | 1.3 | ●      |
|      | OS080-8  | 8.0     | 8      | 79  | 28 | 41  | 1.3 | ●      |
|      | OS081-9  | 8.1     | 9      | 89  | 32 | 45  | 1.3 | ●      |
|      | OS082-9  | 8.2     | 9      | 89  | 32 | 45  | 1.3 | ●      |
|      | OS083-9  | 8.3     | 9      | 89  | 32 | 45  | 1.3 | ●      |
|      | OS084-9  | 8.4     | 9      | 89  | 32 | 45  | 1.3 | ●      |
|      | OS085-9  | 8.5     | 9      | 89  | 32 | 45  | 1.3 | ●      |
|      | OS086-9  | 8.6     | 9      | 89  | 32 | 45  | 1.4 | ●      |
|      | OS087-9  | 8.7     | 9      | 89  | 32 | 45  | 1.4 | ●      |
|      | OS088-9  | 8.8     | 9      | 89  | 32 | 45  | 1.4 | ●      |
|      | OS089-9  | 8.9     | 9      | 89  | 32 | 45  | 1.4 | ●      |
|      | OS090-9  | 9.0     | 9      | 89  | 32 | 45  | 1.4 | ●      |
|      | OS091-10 | 9.1     | 10     | 89  | 35 | 48  | 1.4 | ●      |
|      | OS092-10 | 9.2     | 10     | 89  | 35 | 48  | 1.4 | ●      |
|      | OS093-10 | 9.3     | 10     | 89  | 35 | 48  | 1.5 | ●      |
|      | OS094-10 | 9.4     | 10     | 89  | 35 | 48  | 1.5 | ●      |
|      | OS095-10 | 9.5     | 10     | 89  | 35 | 48  | 1.5 | ●      |
|      | OS096-10 | 9.6     | 10     | 89  | 35 | 48  | 1.5 | ●      |
|      | OS097-10 | 9.7     | 10     | 89  | 35 | 48  | 1.5 | ●      |
|      |          |         |        |     |    |     |     |        |
|      |          |         |        |     |    |     |     |        |

● : 표준 제품

## 내부 급유형 초경 드릴

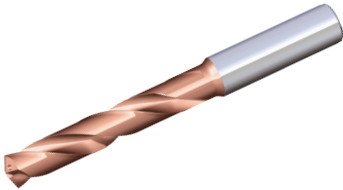
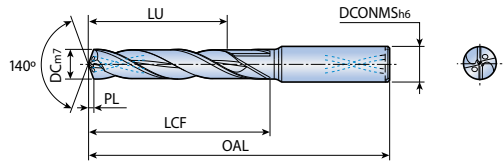


- 가공 깊이: 3xD(직경)

[illegible]

●: 표준 제품

내부 급유형 초경 드릴

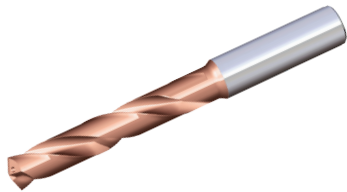
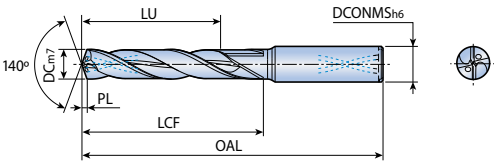


•가공 깊이: 5xD(직경)

| 규격   |         | 치수 (mm) |        |     |    |     |     | 재종     |
|------|---------|---------|--------|-----|----|-----|-----|--------|
|      |         | DC      | DCONMS | OAL | LU | LCF | PL  | DP5130 |
| SDEC | OR030-6 | 3.0     | 6      | 66  | 24 | 30  | 0.5 | ●      |
|      | OR031-6 | 3.1     | 6      | 66  | 24 | 30  | 0.5 | ●      |
|      | OR032-6 | 3.2     | 6      | 66  | 24 | 30  | 0.5 | ●      |
|      | OR033-6 | 3.3     | 6      | 66  | 24 | 30  | 0.5 | ●      |
|      | OR034-6 | 3.4     | 6      | 66  | 24 | 30  | 0.5 | ●      |
|      | OR035-6 | 3.5     | 6      | 66  | 24 | 30  | 0.6 | ●      |
|      | OR036-6 | 3.6     | 6      | 66  | 24 | 30  | 0.6 | ●      |
|      | OR037-6 | 3.7     | 6      | 66  | 24 | 30  | 0.6 | ●      |
|      | OR038-6 | 3.8     | 6      | 74  | 22 | 30  | 0.6 | ●      |
|      | OR039-6 | 3.9     | 6      | 74  | 22 | 30  | 0.6 | ●      |
|      | OR040-6 | 4.0     | 6      | 74  | 22 | 30  | 0.6 | ●      |
|      | OR041-6 | 4.1     | 6      | 74  | 32 | 40  | 0.7 | ●      |
|      | OR042-6 | 4.2     | 6      | 74  | 32 | 40  | 0.7 | ●      |
|      | OR043-6 | 4.3     | 6      | 74  | 32 | 40  | 0.7 | ●      |
|      | OR044-6 | 4.4     | 6      | 74  | 32 | 40  | 0.7 | ●      |
|      | OR045-6 | 4.5     | 6      | 74  | 32 | 40  | 0.7 | ●      |
|      | OR046-6 | 4.6     | 6      | 74  | 32 | 40  | 0.7 | ●      |
|      | OR047-6 | 4.7     | 6      | 74  | 32 | 40  | 0.8 | ●      |
|      | OR048-6 | 4.8     | 6      | 82  | 30 | 40  | 0.8 | ●      |
|      | OR049-6 | 4.9     | 6      | 82  | 30 | 40  | 0.8 | ●      |
|      | OR050-6 | 5.0     | 6      | 82  | 30 | 40  | 0.8 | ●      |
|      | OR051-6 | 5.1     | 6      | 82  | 35 | 45  | 0.8 | ●      |
|      | OR052-6 | 5.2     | 6      | 82  | 35 | 45  | 0.8 | ●      |
|      | OR053-6 | 5.3     | 6      | 82  | 35 | 45  | 0.8 | ●      |
|      | OR054-6 | 5.4     | 6      | 82  | 35 | 45  | 0.8 | ●      |
|      | OR055-6 | 5.5     | 6      | 82  | 35 | 45  | 0.9 | ●      |
|      | OR056-6 | 5.6     | 6      | 82  | 35 | 45  | 0.9 | ●      |
|      | OR057-6 | 5.7     | 6      | 82  | 35 | 45  | 0.9 | ●      |
|      | OR058-6 | 5.8     | 6      | 82  | 35 | 45  | 0.9 | ●      |
|      | OR059-6 | 5.9     | 6      | 82  | 35 | 45  | 0.9 | ●      |
|      | OR060-6 | 6.0     | 6      | 82  | 35 | 45  | 0.9 | ●      |
|      | OR061-7 | 6.1     | 7      | 91  | 37 | 48  | 1   | ●      |
|      | OR062-7 | 6.2     | 7      | 91  | 37 | 48  | 1   | ●      |
|      | OR063-7 | 6.3     | 7      | 91  | 37 | 48  | 1   | ●      |
|      |         |         |        |     |    |     |     |        |
|      |         |         |        |     |    |     |     |        |

●: 표준 제품

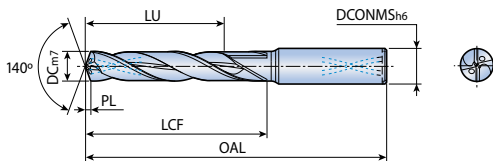
내부 급유형 초경 드릴



•가공 깊이: 5xD(직경)

| 규격   |          | 치수 (mm) |        |     |    |     |     | 재종     |
|------|----------|---------|--------|-----|----|-----|-----|--------|
|      |          | DC      | DCONMS | OAL | LU | LCF | PL  | DP5130 |
| SDEC | OR064-7  | 6.4     | 7      | 91  | 37 | 48  | 1   | ●      |
|      | OR065-7  | 6.5     | 7      | 91  | 37 | 48  | 1   | ●      |
|      | OR066-7  | 6.6     | 7      | 91  | 37 | 48  | 1   | ●      |
|      | OR067-7  | 6.7     | 7      | 91  | 37 | 48  | 1.1 | ●      |
|      | OR068-7  | 6.8     | 7      | 91  | 37 | 48  | 1.1 | ●      |
|      | OR069-7  | 6.9     | 7      | 91  | 37 | 48  | 1.1 | ●      |
|      | OR070-7  | 7.0     | 7      | 91  | 37 | 48  | 1.1 | ●      |
|      | OR071-8  | 7.1     | 8      | 91  | 42 | 53  | 1.1 | ●      |
|      | OR072-8  | 7.2     | 8      | 91  | 42 | 53  | 1.1 | ●      |
|      | OR073-8  | 7.3     | 8      | 91  | 42 | 53  | 1.1 | ●      |
|      | OR074-8  | 7.4     | 8      | 91  | 42 | 53  | 1.2 | ●      |
|      | OR075-8  | 7.5     | 8      | 91  | 42 | 53  | 1.2 | ●      |
|      | OR076-8  | 7.6     | 8      | 91  | 42 | 53  | 1.2 | ●      |
|      | OR077-8  | 7.7     | 8      | 91  | 42 | 53  | 1.2 | ●      |
|      | OR078-8  | 7.8     | 8      | 91  | 42 | 53  | 1.2 | ●      |
|      | OR079-8  | 7.9     | 8      | 91  | 42 | 53  | 1.3 | ●      |
|      | OR080-8  | 8.0     | 8      | 91  | 42 | 53  | 1.3 | ●      |
|      | OR081-9  | 8.1     | 9      | 103 | 46 | 59  | 1.3 | ●      |
|      | OR082-9  | 8.2     | 9      | 103 | 46 | 59  | 1.3 | ●      |
|      | OR083-9  | 8.3     | 9      | 103 | 46 | 59  | 1.3 | ●      |
|      | OR084-9  | 8.4     | 9      | 103 | 46 | 59  | 1.3 | ●      |
|      | OR085-9  | 8.5     | 9      | 103 | 46 | 59  | 1.3 | ●      |
|      | OR086-9  | 8.6     | 9      | 103 | 46 | 59  | 1.4 | ●      |
|      | OR087-9  | 8.7     | 9      | 103 | 46 | 59  | 1.4 | ●      |
|      | OR088-9  | 8.8     | 9      | 103 | 46 | 59  | 1.4 | ●      |
|      | OR089-9  | 8.9     | 9      | 103 | 46 | 59  | 1.4 | ●      |
|      | OR090-9  | 9.0     | 9      | 103 | 46 | 59  | 1.4 | ●      |
|      | OR091-10 | 9.1     | 10     | 103 | 50 | 63  | 1.4 | ●      |
|      | OR092-10 | 9.2     | 10     | 103 | 50 | 63  | 1.4 | ●      |
|      | OR093-10 | 9.3     | 10     | 103 | 50 | 63  | 1.5 | ●      |
|      | OR094-10 | 9.4     | 10     | 103 | 50 | 63  | 1.5 | ●      |
|      | OR095-10 | 9.5     | 10     | 103 | 50 | 63  | 1.5 | ●      |
|      | OR096-10 | 9.6     | 10     | 103 | 50 | 63  | 1.5 | ●      |
|      | OR097-10 | 9.7     | 10     | 103 | 50 | 63  | 1.5 | ●      |
|      |          |         |        |     |    |     |     |        |
|      |          |         |        |     |    |     |     |        |

● : 표준 제품

[illegible]

104

| ISO | 파삭재                | Vc (m/min) | 이송 (mm/rev) |             |             |
|-----|--------------------|------------|-------------|-------------|-------------|
|     |                    |            | Ø16 - Ø21.5 | Ø22 - Ø27.5 | Ø28 - Ø33   |
| P   | 저탄소강<br>(- 0.3% C) | 180 - 240  | 0.06 - 0.10 | 0.06 - 0.12 | 0.07 - 0.13 |
|     | 탄소강<br>(0.3% C-)   | 150 - 220  | 0.08 - 0.15 | 0.10 - 0.18 | 0.12 - 0.22 |
|     | 합금강<br>(- HB300)   | 140 - 200  | 0.08 - 0.14 | 0.10 - 0.18 | 0.12 - 0.22 |
|     | 합금강<br>(HB300-)    | 120 - 180  | 0.08 - 0.15 | 0.10 - 0.20 | 0.12 - 0.23 |
| M   | 스테인레스 스틸           | 150 - 220  | 0.06 - 0.12 | 0.08 - 0.15 | 0.09 - 0.16 |
| K   | 주철                 | 160 - 240  | 0.08 - 0.16 | 0.12 - 0.20 | 0.15 - 0.25 |
|     | 구상 흑연 주철           | 120 - 200  | 0.08 - 0.15 | 0.10 - 0.18 | 0.12 - 0.20 |
| N   | 알루미늄               | 250 - 350  | 0.08 - 0.15 | 0.10 - 0.20 | 0.12 - 0.22 |
| S   | 티탄 합금<br>(Ti 6Al)  | 30 - 60    | 0.06 - 0.14 | 0.08 - 0.18 | 0.10 - 0.22 |

| ISO | 피삭재 재질                         | 조건                 | 인장강도<br>Rm<br>(N/mm <sup>2</sup> ) | 경도<br>(HB) | 소재<br>그룹 | 절삭 속도<br>Vc (m/min) | 드릴 직경별 이송 (mm/rev) |           |            |
|-----|--------------------------------|--------------------|------------------------------------|------------|----------|---------------------|--------------------|-----------|------------|
|     |                                |                    |                                    |            |          |                     | Ø3 - Ø5            | Ø5.1 - Ø8 | Ø8.1 - Ø12 |
| P   | 탄소강<br>패삭강<br>주강               | <0.25%C 풀림         | 420                                | 125        | 1        | 80-120              | 0.10-0.20          | 0.15-0.25 | 0.20-0.30  |
|     |                                | >=0.25%C 풀림        | 650                                | 190        | 2        | 80-110              | 0.10-0.20          | 0.15-0.25 | 0.20-0.30  |
|     |                                | <0.55%C 담금질 및 뜨임   | 850                                | 250        | 3        | 70-100              | 0.10-0.20          | 0.15-0.25 | 0.20-0.30  |
|     |                                | >=0.55%C 풀림        | 750                                | 220        | 4        | 70-100              | 0.10-0.20          | 0.15-0.25 | 0.20-0.30  |
|     |                                | 담금질 및 뜨임           | 1000                               | 300        | 5        | 70-100              | 0.10-0.20          | 0.15-0.25 | 0.20-0.30  |
|     | 연강 및 주강<br>(5% 이하 합금<br>원소 함유) | 풀림                 | 600                                | 200        | 6        | 70-90               | 0.10-0.20          | 0.15-0.25 | 0.20-0.30  |
|     |                                | 담금질 및 뜨임           | 930                                | 275        | 7        | 70-90               | 0.10-0.20          | 0.15-0.25 | 0.20-0.30  |
|     |                                |                    | 1000                               | 300        | 8        | 50-80               | 0.10-0.20          | 0.15-0.25 | 0.20-0.30  |
|     |                                |                    | 1200                               | 350        | 9        | 40-70               | 0.10-0.20          | 0.15-0.25 | 0.20-0.30  |
|     |                                |                    |                                    |            |          |                     |                    |           |            |
| M   | 스테인리스강<br>및 주강                 | 페라이트계/마르텐사이트계      | 680                                | 200        | 12       | 30-60               | 0.06-0.12          | 0.10-0.15 | 0.12-0.18  |
|     |                                | 마르텐사이트계            | 820                                | 240        | 13       | 30-60               | 0.06-0.12          | 0.10-0.15 | 0.12-0.18  |
|     |                                | 오스테나이트계            | 600                                | 180        | 14       | 30-60               | 0.06-0.12          | 0.10-0.15 | 0.12-0.18  |
|     |                                |                    |                                    |            |          |                     |                    |           |            |
| K   | 회주철<br>(GG)                    | 페라이트               |                                    | 160        | 15       | 65-80               | 0.10-0.20          | 0.15-0.25 | 0.20-0.30  |
|     |                                | 펄라이트               |                                    | 250        | 16       | 65-80               | 0.10-0.20          | 0.15-0.25 | 0.20-0.30  |
|     | 구상흑연주철<br>(GGG)                | 페라이트               |                                    | 180        | 17       | 85-105              | 0.10-0.20          | 0.15-0.25 | 0.20-0.30  |
|     |                                | 펄라이트               |                                    | 260        | 18       | 75-90               | 0.10-0.20          | 0.15-0.25 | 0.20-0.30  |
|     | 가단주철                           | 페라이트               |                                    | 130        | 19       | 65-80               | 0.10-0.20          | 0.15-0.25 | 0.20-0.30  |
|     |                                | 펄라이트               |                                    | 230        | 20       | 65-80               | 0.10-0.20          | 0.15-0.25 | 0.20-0.30  |
| N   | 알루미늄-단조합금                      | 시효경화처리 안됨          |                                    | 60         | 21       | 70-200              | 0.10-0.25          | 0.15-0.35 | 0.25-0.45  |
|     |                                | 시효경화처리             |                                    | 100        | 22       | 70-200              | 0.10-0.25          | 0.15-0.35 | 0.25-0.45  |
|     | 알루미늄-주조합금                      | <=12% Si 시효경화처리 안됨 |                                    | 75         | 23       | 70-200              | 0.10-0.25          | 0.15-0.35 | 0.25-0.45  |
|     |                                | 시효경화처리             |                                    | 90         | 24       | 70-200              | 0.10-0.25          | 0.15-0.35 | 0.25-0.45  |
|     |                                | >12% Si 고온 열처리     |                                    | 130        | 25       | 70-150              | 0.10-0.25          | 0.15-0.35 | 0.25-0.45  |
|     | 구리합금                           | >1% Pb 패삭합금        |                                    | 110        | 26       | 70-200              | 0.08-0.18          | 0.15-0.25 | 0.20-0.35  |
|     |                                | 황동                 |                                    | 90         | 27       | 70-200              | 0.08-0.18          | 0.15-0.25 | 0.20-0.35  |
|     |                                | 전해구리               |                                    | 100        | 28       | 70-200              | 0.08-0.18          | 0.15-0.25 | 0.20-0.35  |
|     | 비철금속                           | 듀로플라스틱, 탄소강화섬유     |                                    | 70 Shore D | 29       |                     |                    |           |            |
|     |                                | 경화고무               |                                    | 55 Shore D | 30       |                     |                    |           |            |
| S   | 내열합금강                          | Fe 함유 풀림           |                                    | 200        | 31       | 15-40               | 0.02-0.08          | 0.04-0.10 | 0.06-0.12  |
|     |                                |                    |                                    | 280        | 32       | 15-40               | 0.02-0.08          | 0.04-0.10 | 0.06-0.12  |
|     |                                | Ni or Co 함유 풀림     |                                    | 250        | 33       | 15-40               | 0.02-0.08          | 0.04-0.10 | 0.06-0.12  |
|     |                                |                    |                                    | 350        | 34       | 15-40               | 0.02-0.08          | 0.04-0.10 | 0.06-0.12  |
|     |                                |                    |                                    | 320        | 35       | 15-40               | 0.02-0.08          | 0.04-0.10 | 0.06-0.12  |
|     | 티타늄 및 티타늄 합금강                  | 순티타늄               | Rm 400                             | 190        | 36       |                     |                    |           |            |
|     |                                | Alpha+beta 시효경화처리  | Rm 1050                            | 310        | 37       |                     |                    |           |            |
| H   | 고경도강                           | 열경화처리              |                                    | 55HRC      | 38       | 10-40               | 0.02-0.08          | 0.04-0.10 | 0.06-0.12  |
|     |                                | 열경화처리              |                                    | 60HRC      | 39       | 10-40               | 0.02-0.08          | 0.04-0.10 | 0.06-0.12  |
|     | 철주철                            | 주조                 |                                    | 400        | 40       |                     |                    |           |            |
|     | 고경도 구상흑연주철                     | 열경화처리              |                                    | 55HRC      | 41       |                     |                    |           |            |

■ 강
 ■ 스테인리스강
 ■ 주철
 ■ 비철금속
 ■ 내열합금
 ■ 고경도강