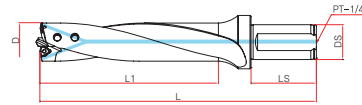


# TURBO DRILL

VLT 5×D

## ● STANDARD TYPE

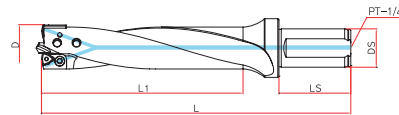


▶ Shank ISO9766, Parallel with clamping flat

| CODE NO.       | 치수, Dimension (mm) |     |     |    |    | 센터드릴<br>Pilot Drill | 인서트<br>INSERT | 부품, Component |        |  |  |  |  |  |  |  |
|----------------|--------------------|-----|-----|----|----|---------------------|---------------|---------------|--------|--|--|--|--|--|--|--|
|                | D                  | L1  | L   | Ds | Ls |                     |               | SCREW         | Driver |  |  |  |  |  |  |  |
| VLT-25050D S32 | 25                 | 150 | 240 | 32 | 60 | PLD-V0630 TIN       | WC..030204    | TSB-22045     | TXL-6  |  |  |  |  |  |  |  |
| VLT-26050D S32 | 26                 |     |     |    |    |                     | WC..040204    | TSB-25055     | TXL-8  |  |  |  |  |  |  |  |
| VLT-27050D S32 | 27                 |     |     |    |    |                     |               |               |        |  |  |  |  |  |  |  |
| VLT-28050D S32 | 28                 |     |     |    |    |                     |               |               |        |  |  |  |  |  |  |  |
| VLT-29050D S32 | 29                 |     |     |    |    |                     |               |               |        |  |  |  |  |  |  |  |
| VLT-30050D S32 | 30                 | 175 | 265 |    |    | PLD-V0835 TIN       | WC..050308    | TSB-30070     |        |  |  |  |  |  |  |  |
| VLT-31050D S32 | 31                 |     |     |    |    |                     |               |               |        |  |  |  |  |  |  |  |
| VLT-32050D S32 | 32                 |     |     |    |    |                     |               |               |        |  |  |  |  |  |  |  |
| VLT-33050D S32 | 33                 |     |     |    |    |                     |               |               |        |  |  |  |  |  |  |  |
| VLT-34050D S32 | 34                 |     |     |    |    |                     |               |               |        |  |  |  |  |  |  |  |
| VLT-35050D S32 | 35                 | 200 | 290 |    |    |                     |               |               |        |  |  |  |  |  |  |  |
| VLT-36050D S32 | 36                 |     |     |    |    |                     |               |               |        |  |  |  |  |  |  |  |
| VLT-37050D S32 | 37                 |     |     |    |    |                     |               |               |        |  |  |  |  |  |  |  |
| VLT-38050D S32 | 38                 |     |     |    |    |                     |               |               |        |  |  |  |  |  |  |  |
| VLT-39050D S32 | 39                 |     |     |    |    |                     |               |               |        |  |  |  |  |  |  |  |
| VLT-40050D S32 | 40                 |     |     |    |    |                     |               |               |        |  |  |  |  |  |  |  |

※  $\phi 25 \sim \phi 40$  : Standard type, 일반형

## ● SINGLE INSERT CARTRIDGE TYPE



| SHANK | Ds | Ls |
|-------|----|----|
| S40   | 40 | 70 |

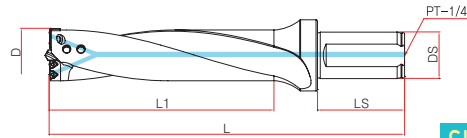
▶ Shank ISO9766, Parallel with clamping flat

| CODE NO.        | 치수, Dimension [mm] |     |     | 센터드릴<br>Pilot Drill | 인 서 트<br>INSERT | 부품, Component |        | 카트리지, CARTRIDGE    |             |           |        |             |             |
|-----------------|--------------------|-----|-----|---------------------|-----------------|---------------|--------|--------------------|-------------|-----------|--------|-------------|-------------|
|                 | D                  | L1  | L   |                     |                 | SCREW         | Driver | INNER              | OUTER       |           |        |             |             |
| VLT-414550D S40 | 41                 | 225 | 330 | PLD-V1035<br>TIN-H  | WC..06T308      | TSB-35080     | TXL-15 | VLC-410450N        | VLC-000410T |           |        |             |             |
|                 | 42                 |     |     |                     |                 |               |        |                    | VLC-000420T |           |        |             |             |
|                 | 43                 |     |     |                     |                 |               |        |                    | VLC-000430T |           |        |             |             |
|                 | 44                 |     |     |                     |                 |               |        |                    | VLC-000440T |           |        |             |             |
|                 | 45                 |     |     |                     |                 |               |        |                    | VLC-000450T |           |        |             |             |
| VLT-465050D S40 | 46                 | 250 | 355 |                     |                 |               |        | PLD-V1238<br>TIN-H | WC..080408  | TSB-40110 | TXL-15 | VLC-460500N | VLC-000460T |
|                 | 47                 |     |     |                     |                 |               |        |                    |             |           |        |             | VLC-000470T |
|                 | 48                 |     |     |                     |                 |               |        |                    |             |           |        |             | VLC-000480T |
|                 | 49                 |     |     |                     |                 |               |        |                    |             |           |        |             | VLC-000490T |
|                 | 50                 |     |     |                     |                 |               |        |                    |             |           |        |             | VLC-000500T |
| VLT-515550D S40 | 51                 | 275 | 380 | PLD-V1238<br>TIN-H  | WC..080408      | TSB-40110     | TXL-15 |                    |             |           |        | VLC-510550N | VLC-000510T |
|                 | 52                 |     |     |                     |                 |               |        |                    |             |           |        |             | VLC-000520T |
|                 | 53                 |     |     |                     |                 |               |        |                    |             |           |        |             | VLC-000530T |
|                 | 54                 |     |     |                     |                 |               |        |                    |             |           |        |             | VLC-000540T |
|                 | 55                 |     |     |                     |                 |               |        |                    |             |           |        |             | VLC-000550T |
| VLT-565950D S40 | 56                 | 300 | 405 |                     |                 |               |        | PLD-V1238<br>TIN-H | WC..080408  | TSB-40110 | TXL-15 | VLC-560590N | VLC-000560T |
|                 | 57                 |     |     |                     |                 |               |        |                    |             |           |        |             | VLC-000570T |
|                 | 58                 |     |     |                     |                 |               |        |                    |             |           |        |             | VLC-000580T |
|                 | 59                 |     |     |                     |                 |               |        |                    |             |           |        |             | VLC-000590T |

※  $\phi 41 \sim \phi 59$  : Adjustable 5mm unit when you replace individual outer cartridge(1mm).

1mm단위 개별 카트리지 사용으로 직경을 조절합니다.

● **DUAL INSERT CARTRIDGE TYPE**

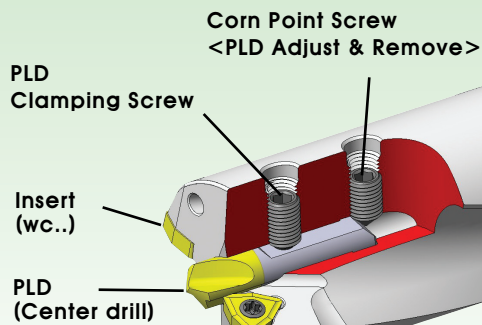


| SHANK | Ds | Ls |
|-------|----|----|
| S40   | 40 | 70 |

▶ Shank ISO9766, Parallel with clamping flat

| CODE NO.        | 치수, Dimension (mm) |     |     | 센터드릴<br>Pilot Drill | 인서트<br>INSERT | 부품, Component |        | 카트리지, CARTRIDGE |             |
|-----------------|--------------------|-----|-----|---------------------|---------------|---------------|--------|-----------------|-------------|
|                 | D                  | L1  | L   |                     |               | SCREW         | Driver | INNER           | OUTER       |
| VLT-606550D S40 | 60~65              | 325 | 430 | PLD-V1238<br>TIN-H  | WC..050308    | TSB-30070     | TXL-8  | VMC-060065N     | VMC-060065T |
| VLT-657050D S40 | 65~70              | 350 | 455 |                     |               |               |        | VMC-065070N     | VMC-065070T |
| VLT-707550D S40 | 70~75              | 375 | 480 |                     |               |               |        | VMC-070075N     | VMC-070075T |
| VLT-758050D S40 | 75~80              | 400 | 505 | PLD-V1645<br>TIN-H  | WC..06T308    | TSB-35090     | TXL-15 | VMC-075080N     | VMC-075080T |

※  $\Phi 60 \sim \Phi 80$  : Cut the outer cartridge and setting. (Adjust 5mm) 외측 카트리지를 커팅하여 직경을 조절합니다.



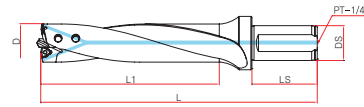
— Corn Point System —

- ▶ **VLT A Type**  $\Phi 25\text{mm} - \Phi 40\text{mm}$ (Standard type)
- ▶ **VLT B Type**  $\Phi 41\text{mm} - \Phi 59\text{mm}$ (Single Insert Cartridge type)
- ▶ **VLT C Type**  $\Phi 60\text{mm} - \Phi 80\text{mm}$ (Dual Insert Cartridge type)

# TURBO DRILL

VLT 6.5×D

## ● STANDARD TYPE

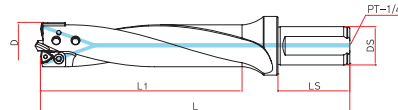


▶ Shank ISO9766, Parallel with clamping flat

| CODE NO.       | 치수, Dimension (mm) |     |     |    |    | 센터드릴<br>Pilot Drill | 인서트<br>INSERT | 부품, Component |        |  |  |  |  |  |  |  |
|----------------|--------------------|-----|-----|----|----|---------------------|---------------|---------------|--------|--|--|--|--|--|--|--|
|                | D                  | L1  | L   | Ds | Ls |                     |               | SCREW         | Driver |  |  |  |  |  |  |  |
| VLT-25065D S32 | 25                 | 185 | 275 | 32 | 60 | PLD-V0630 TIN       | WC..030204    | TSB-22045     | TXL-6  |  |  |  |  |  |  |  |
| VLT-26065D S32 | 26                 |     |     |    |    |                     | WC..040204    | TSB-25055     | TXL-8  |  |  |  |  |  |  |  |
| VLT-27065D S32 | 27                 |     |     |    |    |                     |               |               |        |  |  |  |  |  |  |  |
| VLT-28065D S32 | 28                 |     |     |    |    |                     |               |               |        |  |  |  |  |  |  |  |
| VLT-29065D S32 | 29                 |     |     |    |    |                     |               |               |        |  |  |  |  |  |  |  |
| VLT-30065D S32 | 30                 | 218 | 308 |    |    | PLD-V0835 TIN       | WC..050308    | TSB-30070     |        |  |  |  |  |  |  |  |
| VLT-31065D S32 | 31                 |     |     |    |    |                     |               |               |        |  |  |  |  |  |  |  |
| VLT-32065D S32 | 32                 |     |     |    |    |                     |               |               |        |  |  |  |  |  |  |  |
| VLT-33065D S32 | 33                 |     |     |    |    |                     |               |               |        |  |  |  |  |  |  |  |
| VLT-34065D S32 | 34                 |     |     |    |    |                     |               |               |        |  |  |  |  |  |  |  |
| VLT-35065D S32 | 35                 | 250 | 340 |    |    |                     |               |               |        |  |  |  |  |  |  |  |
| VLT-36065D S32 | 36                 |     |     |    |    |                     |               |               |        |  |  |  |  |  |  |  |
| VLT-37065D S32 | 37                 |     |     |    |    |                     |               |               |        |  |  |  |  |  |  |  |
| VLT-38065D S32 | 38                 |     |     |    |    |                     |               |               |        |  |  |  |  |  |  |  |
| VLT-39065D S32 | 39                 |     |     |    |    |                     |               |               |        |  |  |  |  |  |  |  |
| VLT-40065D S32 | 40                 |     |     |    |    |                     |               |               |        |  |  |  |  |  |  |  |

※  $\phi 25 \sim \phi 40$  : Standard type, 일반형

## ● SINGLE INSERT CARTRIDGE TYPE



| SHANK | Ds | Ls |
|-------|----|----|
| S40   | 40 | 70 |

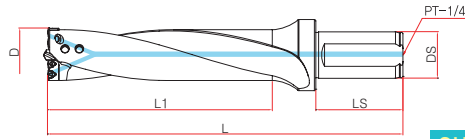
▶ Shank ISO9766, Parallel with clamping flat

| CODE NO.        | 치수, Dimension [mm] |     |     | 센터드릴<br>Pilot Drill | 인 서 트<br>INSERT | 부품, Component |        | 카트리지, CARTRIDGE |             |
|-----------------|--------------------|-----|-----|---------------------|-----------------|---------------|--------|-----------------|-------------|
|                 | D                  | L1  | L   |                     |                 | SCREW         | Driver | INNER           | OUTER       |
| VLT-414565D S40 | 41                 | 283 | 388 | PLD-V1035<br>TIN-H  | WC..06T308      | TSB-35080     | TXL-15 | VLC-410450N     | VLC-000410T |
|                 | 42                 |     |     |                     |                 |               |        |                 | VLC-000420T |
|                 | 43                 |     |     |                     |                 |               |        |                 | VLC-000430T |
|                 | 44                 |     |     |                     |                 |               |        |                 | VLC-000440T |
|                 | 45                 |     |     |                     |                 |               |        |                 | VLC-000450T |
| VLT-465065D S40 | 46                 | 315 | 420 |                     |                 |               |        | VLC-460500N     | VLC-000460T |
|                 | 47                 |     |     |                     |                 |               |        |                 | VLC-000470T |
|                 | 48                 |     |     |                     |                 |               |        |                 | VLC-000480T |
|                 | 49                 |     |     |                     |                 |               |        |                 | VLC-000490T |
|                 | 50                 |     |     |                     |                 |               |        |                 | VLC-000500T |
| VLT-515565D S40 | 51                 | 348 | 453 | PLD-V1238<br>TIN-H  | WC..080408      | TSB-40110     |        | VLC-510550N     | VLC-000510T |
|                 | 52                 |     |     |                     |                 |               |        |                 | VLC-000520T |
|                 | 53                 |     |     |                     |                 |               |        |                 | VLC-000530T |
|                 | 54                 |     |     |                     |                 |               |        |                 | VLC-000540T |
|                 | 55                 |     |     |                     |                 |               |        |                 | VLC-000550T |
| VLT-565965D S40 | 56                 | 380 | 485 |                     |                 |               |        | VLC-560590N     | VLC-000560T |
|                 | 57                 |     |     |                     |                 |               |        |                 | VLC-000570T |
|                 | 58                 |     |     |                     |                 |               |        |                 | VLC-000580T |
|                 | 59                 |     |     |                     |                 |               |        |                 | VLC-000590T |

※  $\phi 41 \sim \phi 59$  : Adjustable 5mm unit when you replace individual outer cartridge(1mm).

1mm단위 개별 카트리지 사용으로 직경을 조절합니다.

● **DUAL INSERT CARTRIDGE TYPE**



| SHANK | Ds | Ls |
|-------|----|----|
| S40   | 40 | 70 |

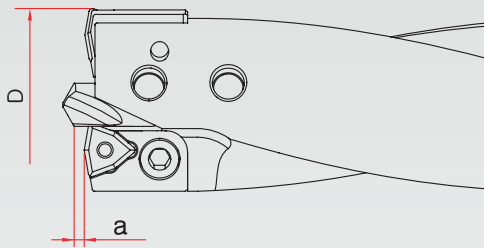
▶ Shank ISO9766, Parallel with clamping flat

| CODE NO.        | 치수, Dimension (mm) |     |     | 센터드릴<br>Pilot Drill | 인서트<br>INSERT | 부품, Component |        | 카트리지, CARTRIDGE |             |
|-----------------|--------------------|-----|-----|---------------------|---------------|---------------|--------|-----------------|-------------|
|                 | D                  | L1  | L   |                     |               | SCREW         | Driver | INNER           | OUTER       |
| VLT-606565D S40 | 60~65              | 423 | 528 | PLD-V1238<br>TIN-H  | WC..050308    | TSB-30070     | TXL-8  | VMC-060065N     | VMC-060065T |
| VLT-657065D S40 | 65~70              | 455 | 560 |                     |               |               |        | VMC-065070N     | VMC-065070T |
| VLT-707565D S40 | 70~75              | 488 | 593 |                     |               |               |        | VMC-070075N     | VMC-070075T |
| VLT-758065D S40 | 75~80              | 520 | 625 | PLD-V1645<br>TIN-H  | WC..06T308    | TSB-35090     | TXL-15 | VMC-075080N     | VMC-075080T |

※  $\phi 60 \sim \phi 80$  : Cut the outer cartridge and setting. (Adjust 5mm) 외측 카트리지를 커팅하여 직경을 조절합니다.

**User Guide**

● **Pilot drill(PLD) setting**



| Drill dia.<br>( $\phi$ ) | a                   |              |                      |
|--------------------------|---------------------|--------------|----------------------|
|                          | non-alloy<br>steels | alloy steels | non-ferrous<br>metal |
| 25-30                    | 1.2                 | 1            | 1.5                  |
| 31-40                    | 1.5                 | 1.3          | 1.8                  |
| 41-50                    | 1.8                 | 1.5          | 2.2                  |
| 51-59                    | 2.2                 | 1.8          | 2.5                  |
| 60-75                    | 2.5                 | 2            | 2.8                  |
| 75-80                    | 3                   | 2.5          | 3.5                  |

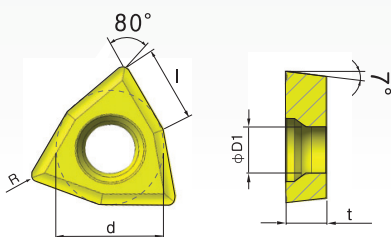
● **UPgrade PLD-V Type**



• Existing PLD-application Drill: TSD, VMD(MXD)

• UPGRADE PLD-application Drill:  
TSD, VMD(MXD) and VLT

● **The Insert for VLT-Drill**



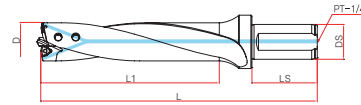
| CODE       | R   | d     | D1  | t    | l   |
|------------|-----|-------|-----|------|-----|
| WC..030204 | 0.4 | 5.56  | 2.5 | 2.38 | 3.8 |
| WC..040204 | 0.4 | 6.35  | 2.8 | 2.38 | 4.3 |
| WC..050308 | 0.8 | 7.94  | 3.4 | 3.18 | 5.4 |
| WC..06T308 | 0.8 | 9.525 | 4.4 | 3.97 | 6.5 |
| WC..080408 | 0.8 | 12.7  | 5.5 | 4.76 | 8.7 |

• The standard table above is for the reference of Inserts for VLT-DRILL, we also sell different designs of the Insert screws separately.

# TURBO DRILL

VLT 8×D

## ● STANDARD TYPE

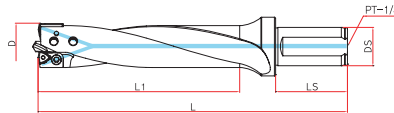


▶ Shank ISO9766, Parallel with clamping flat

| CODE NO.       | 치수, Dimension (mm) |     |     |    |    | 센터드릴<br>Pilot Drill | 인 서 트<br>INSERT | 부품, Component |        |  |  |  |  |  |  |  |
|----------------|--------------------|-----|-----|----|----|---------------------|-----------------|---------------|--------|--|--|--|--|--|--|--|
|                | D                  | L1  | L   | Ds | Ls |                     |                 | SCREW         | Driver |  |  |  |  |  |  |  |
| VLT-25080D S32 | 25                 | 220 | 310 | 32 | 60 | PLD-V0630 TIN       | WC..030204      | TSB-22045     | TXL-6  |  |  |  |  |  |  |  |
| VLT-26080D S32 | 26                 |     |     |    |    |                     | WC..040204      | TSB-25055     | TXL-8  |  |  |  |  |  |  |  |
| VLT-27080D S32 | 27                 |     |     |    |    |                     |                 |               |        |  |  |  |  |  |  |  |
| VLT-28080D S32 | 28                 |     |     |    |    |                     |                 |               |        |  |  |  |  |  |  |  |
| VLT-29080D S32 | 29                 |     |     |    |    |                     |                 |               |        |  |  |  |  |  |  |  |
| VLT-30080D S32 | 30                 | 260 | 350 |    |    | PLD-V0835 TIN       | WC..050308      | TSB-30070     |        |  |  |  |  |  |  |  |
| VLT-31080D S32 | 31                 |     |     |    |    |                     |                 |               |        |  |  |  |  |  |  |  |
| VLT-32080D S32 | 32                 |     |     |    |    |                     |                 |               |        |  |  |  |  |  |  |  |
| VLT-33080D S32 | 33                 |     |     |    |    |                     |                 |               |        |  |  |  |  |  |  |  |
| VLT-34080D S32 | 34                 |     |     |    |    |                     |                 |               |        |  |  |  |  |  |  |  |
| VLT-35080D S32 | 35                 | 300 | 390 |    |    |                     |                 |               |        |  |  |  |  |  |  |  |
| VLT-36080D S32 | 36                 |     |     |    |    |                     |                 |               |        |  |  |  |  |  |  |  |
| VLT-37080D S32 | 37                 |     |     |    |    |                     |                 |               |        |  |  |  |  |  |  |  |
| VLT-38080D S32 | 38                 |     |     |    |    |                     |                 |               |        |  |  |  |  |  |  |  |
| VLT-39080D S32 | 39                 |     |     |    |    |                     |                 |               |        |  |  |  |  |  |  |  |
| VLT-40080D S32 | 40                 |     |     |    |    |                     |                 |               |        |  |  |  |  |  |  |  |

※  $\phi 25 \sim \phi 40$  : Standard type, 일반형

## ● SINGLE INSERT CARTRIDGE TYPE



| SHANK | Ds | Ls |
|-------|----|----|
| S40   | 40 | 70 |

▶ Shank ISO9766, Parallel with clamping flat

| CODE NO.        | 치수, Dimension [mm] |     |     | 센터드릴<br>Pilot Drill | 인 서 트<br>INSERT | 부품, Component |        | 카트리지, CARTRIDGE |             |
|-----------------|--------------------|-----|-----|---------------------|-----------------|---------------|--------|-----------------|-------------|
|                 | D                  | L1  | L   |                     |                 | SCREW         | Driver | INNER           | OUTER       |
| VLT-414580D S40 | 41                 | 340 | 445 | PLD-V1035<br>TIN-H  | WC..06T308      | TSB-35080     | TXL-15 | VLC-410450N     | VLC-000410T |
|                 | 42                 |     |     |                     |                 |               |        |                 | VLC-000420T |
|                 | 43                 |     |     |                     |                 |               |        |                 | VLC-000430T |
|                 | 44                 |     |     |                     |                 |               |        |                 | VLC-000440T |
|                 | 45                 |     |     |                     |                 |               |        |                 | VLC-000450T |
| VLT-465080D S40 | 46                 | 380 | 485 |                     |                 |               |        | VLC-460500N     | VLC-000460T |
|                 | 47                 |     |     |                     |                 |               |        |                 | VLC-000470T |
|                 | 48                 |     |     |                     |                 |               |        |                 | VLC-000480T |
|                 | 49                 |     |     |                     |                 |               |        |                 | VLC-000490T |
|                 | 50                 |     |     |                     |                 |               |        |                 | VLC-000500T |
| VLT-515580D S40 | 51                 | 420 | 525 | PLD-V1238<br>TIN-H  | WC..080408      | TSB-40110     |        | VLC-510550N     | VLC-000510T |
|                 | 52                 |     |     |                     |                 |               |        |                 | VLC-000520T |
|                 | 53                 |     |     |                     |                 |               |        |                 | VLC-000530T |
|                 | 54                 |     |     |                     |                 |               |        |                 | VLC-000540T |
|                 | 55                 |     |     |                     |                 |               |        |                 | VLC-000550T |
| VLT-565980D S40 | 56                 | 460 | 565 |                     |                 |               |        | VLC-560590N     | VLC-000560T |
|                 | 57                 |     |     |                     |                 |               |        |                 | VLC-000570T |
|                 | 58                 |     |     |                     |                 |               |        |                 | VLC-000580T |
|                 | 59                 |     |     |                     |                 |               |        |                 | VLC-000590T |

※  $\phi 41 \sim \phi 59$  : Adjustable 5mm unit when you replace individual outer cartridge(1mm).

1mm단위 개별 카트리지 사용으로 직경을 조절합니다.