

Diamond Drills For The Automotive Industry

TYROLIT provides a wide range of monobloc drills and drills with mobile countersinks for the Automotive Glass Industry. They are specially designed and manufactured to guarantee the best quality of the hole at high feed rates.

Excellent start up: from the first hole you get an excellent edge quality. To speed up the start, TYROLIT provides the drills with properly dressed diamond surface.



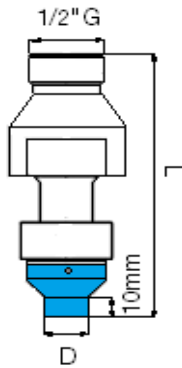
Excellent edge finishing: the diamond drills allow you to achieve excellent quality standards, ensuring a perfect finish both on inside and countersunk parts.

High feed speed: the diamond drills have been designed for a consistent performance throughout their lifetime: the high edge quality is guaranteed up to 120 mm/min working.

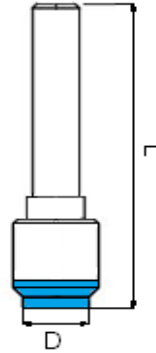
Long lifetime: the sintered diamond drills are manufactured using specific bonds to grant an excellent lifetime, that satisfy the highest standards in the market.

CORE DRILLS

Drills with mobile countersink



Monobloc core drills

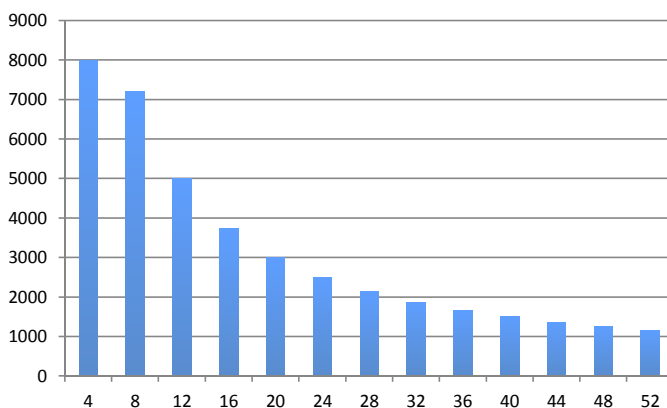


Range of products

| | |
|--------------------|-----------------------------------|
| Fittings available | 1/2" gas, Ø 9,5, Ø 10, Ø 12, Ø 16 |
| Total length (L) | from 75 mm up to 95 mm |
| Diameter | 4 to 50 mm |
| Rim thickness | from 0,7 mm to 1 mm |
| Body | Stainless steel |

Working parameters

| DRESSING STICKS FOR | Drill's diameter | Recommended peripheral speed | Drilling rate with water | Drilling rate with coolant | Countersink speed |
|---------------------|------------------|------------------------------|--------------------------|----------------------------|-------------------|
| 3 - 6 mm | from 4 to 25 mm | 3 m/s | up to 1,5 mm/s | up to 2 mm/s | up to 0,5 mm/s |
| 3 - 6 mm | from 26 to 50 mm | 3 m/s | up to 1 mm/s | up to 1,5 mm/s | up to 0,5 mm/s |



| dm | rpm |
|----|------|
| 4 | 8000 |
| 8 | 7200 |
| 12 | 5000 |
| 16 | 3750 |
| 20 | 3000 |
| 24 | 2500 |
| 28 | 2146 |
| 32 | 1875 |
| 36 | 1667 |
| 40 | 1500 |
| 44 | 1364 |
| 48 | 1250 |
| 52 | 1155 |

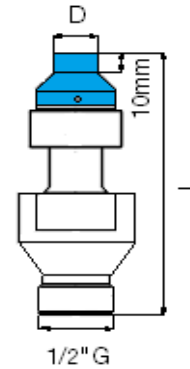
CORE DRILLS

DRILLS WITH MOBILE COUNTERSINK

| \varnothing (D) | Specification |
|-------------------|---------------|
| mm | |
| 3,00 - 4,99 | COUC FLH2 |
| 5,00 - 10,00 | COUC FLH2 |
| 10,01 - 15,00 | COUC FLH2 |
| 15,01 - 20,00 | COUC FLH2 |
| 20,01 - 25,00 | COUC FLH2 |
| 25,01 - 30,00 | COUC FLH2 |
| 30,01 - 35,00 | COUC FLH2 |
| 35,01 - 40,00 | COUC FLH2 |
| 40,01 - 45,00 | COUC FLH2 |
| 45,01 - 50,00 | COUC FLH2 |



Total length (L) from 75 mm up to 95 mm
 Fittings available 1/2" GAS
 Body Stainless steel



COUNTERSINK

| \varnothing (D) | Specification |
|-------------------|---------------|
| mm | |
| 3,00 - 4,99 | FRC FLH2 |
| 5,00 - 10,00 | FRC FLH2 |
| 10,01 - 15,00 | FRC FLH2 |
| 15,01 - 20,00 | FRC FLH2 |
| 20,01 - 25,00 | FRC FLH2 |
| 25,01 - 30,00 | FRC FLH2 |
| 30,01 - 35,00 | FRC FLH2 |
| 35,01 - 40,00 | FRC FLH2 |
| 40,01 - 45,00 | FRC FLH2 |
| 45,01 - 50,00 | FRC FLH2 |

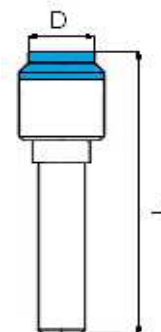


MONOBLOC CORE DRILL

| \varnothing | Specification |
|---------------|---------------|
| mm | |
| 4,00 - 10,00 | CDAC FVDN |
| 10,01 - 15,00 | CDAC FVDN |
| 15,01 - 20,00 | CDAC FVDN |
| 20,01 - 25,00 | CDAC FVDN |
| 25,01 - 30,00 | CDAC FVDN |
| 30,01 - 35,00 | CDAC FVDN |
| 35,01 - 40,00 | CDAC FVDN |
| 40,01 - 45,00 | CDAC FVDN |
| 45,01 - 50,00 | CDAC FVDN |



Total length (L) from 75 mm up to 95 mm
 Fittings available 1/2" gas
 \varnothing 9,5 mm \varnothing 10mm
 \varnothing 12mm



*Higher diameters on request