

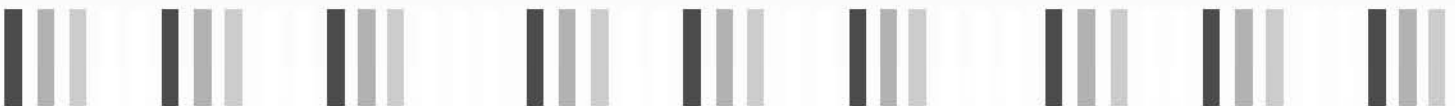


HARD ABRASIVE TOOL



**sintered diamond core drills
with continuous crown.**

For more than 25 years, our diamond core drills are produced according to the European standards and are sold on all continents where their quality is recognized by our customers.





SECTORS

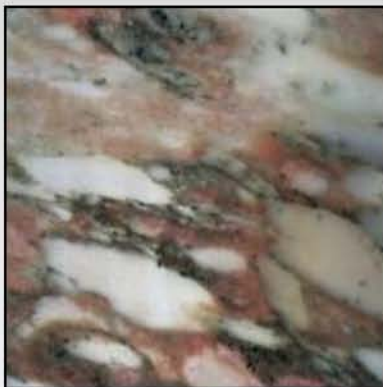
Glass

- Automotive Glass
- Construction and Décor Glass
- Household Appliances (vitroceramic)
- Others ...



Natural Stone (Marble, Granite...)

- Gravestone
- Building and Furnishing (kitchen, bathrooms, stairs...)
- Others ...



Ceramic and Fireproof Ceramic

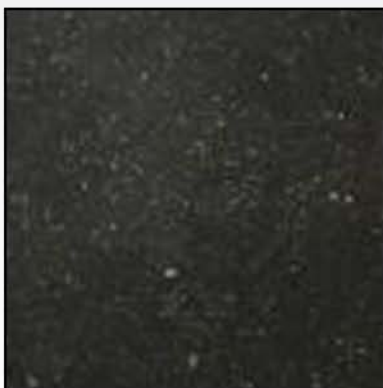
OUR STRENGTH

- Our own production facilities
- Our long experience and competence
- Always at our customers' service
- Competitive prices, irreproachable quality, short lead times
- Our flexibility: in term of lead time and manufacturing;

Do not hesitate to contact our Sales Department

- Our capacity to supply big Glass Industry Groups such as:

Saint-Gobain, Asahi Glass...



FEATURES

Dimensions:

- Diameter Available: from 3 mm to 123 mm, for 0,1 mm step
- Standard Useful Lengths: 32 mm or 40 mm as standard
- Special Lengths available: up to 800 mm
- The standard thickness of the crown is 1 mm

(Upon request we can manufacture: 1,25 / 1,50 / 1,75 / 2mm)

Common fittings:

- R 1/2" Gaz 14TPI (Matheys)
- Jadem - Habit
- R 5/8" 11TPI
- Bystronic
- Benteler
- Cylinder 9.5 Straight



Types of Bonds:

- Depending on the application you want to use the core drill, offer a large bonding panel. Currently, we are able to propose more than 10 different bonds.

diamond core drills are to be used with central water cooling



Simple Core Drills - FC

Diameters can vary from 1 to 123 mm.

Maximum Useful Length (HU): 800 mm

Applications:

Architectural Glass / Granite / Marble / Ceramic...



Off-Center Coolant Drills - FB

Diameters can vary from 1 to 40 mm.

These drills allow to eject the drilling particles; the carrot is expelled automatically.

Applications:

Architectural Glass / Granite / Marble / Ceramic...



Off-center Coolant Hole



Off-center Coolant Slot

Monobloc Core Drills with Cutter - FFM

Monobloc drills are mainly used for drilling glass of maximal thickness of 5mm.

Diameters can vary from 4 to 50 mm.

X = from 1 to 3 mm



Applications: Automotive Glass – Vitro-ceramics

Core Drills with Sliding Cutter - FFC & Sliding Cutter - FRC

These drills and sliding cutters can drill both thin and thick glass.

Diameters can vary from 3 to 121 mm.

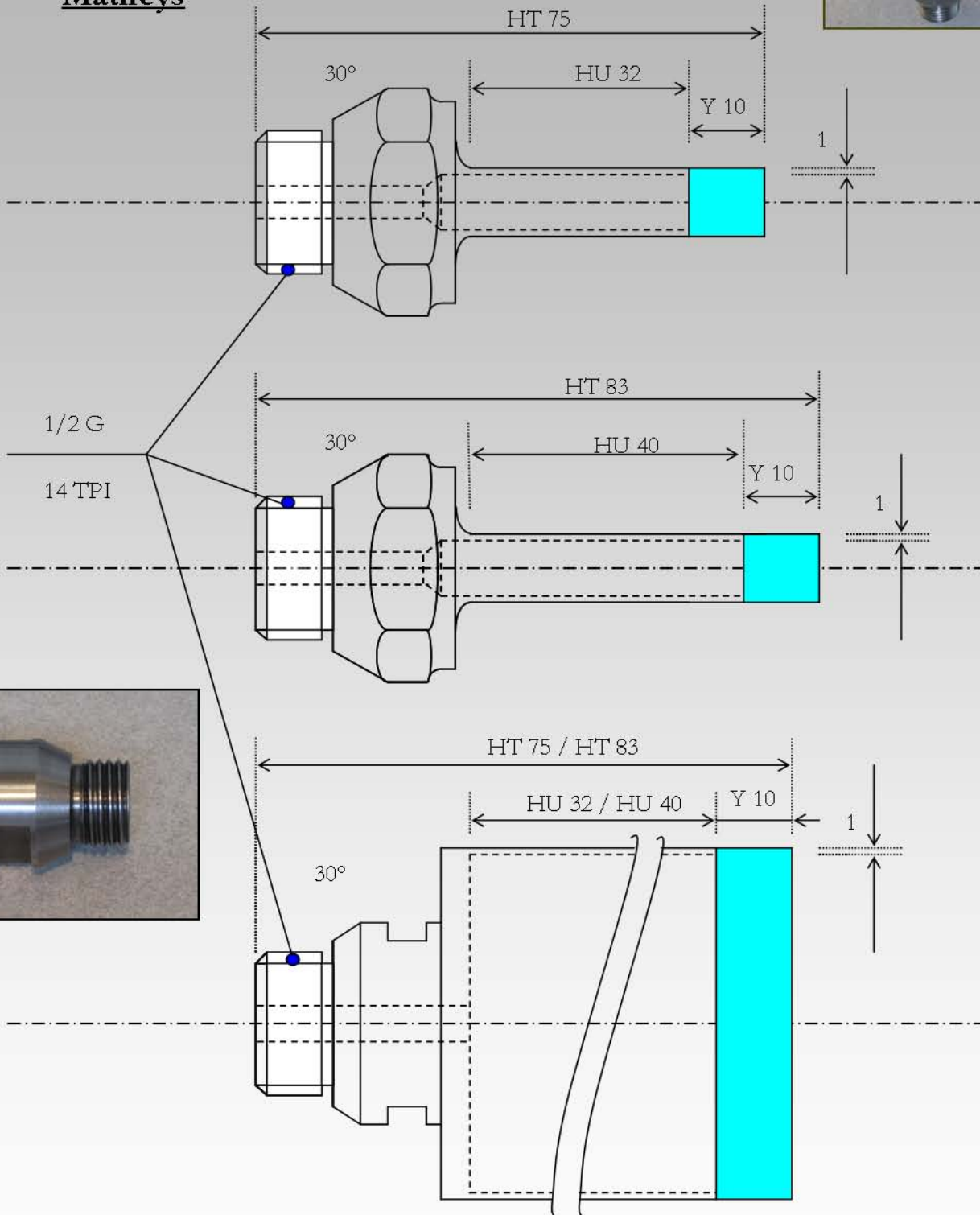


**Applications: Floating Glass – Architectural -
Automotive or Vitro-ceramics**

SIMPLE CORE DRILLS - FC



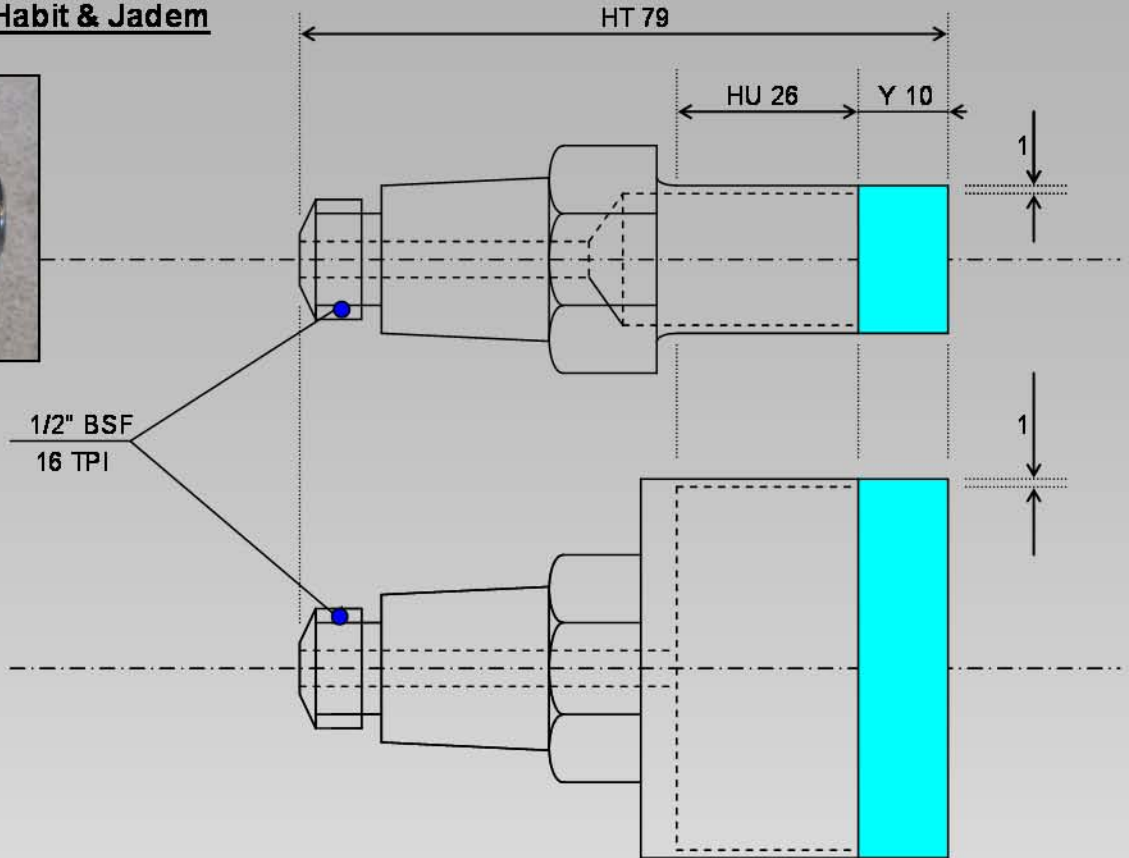
Matheys



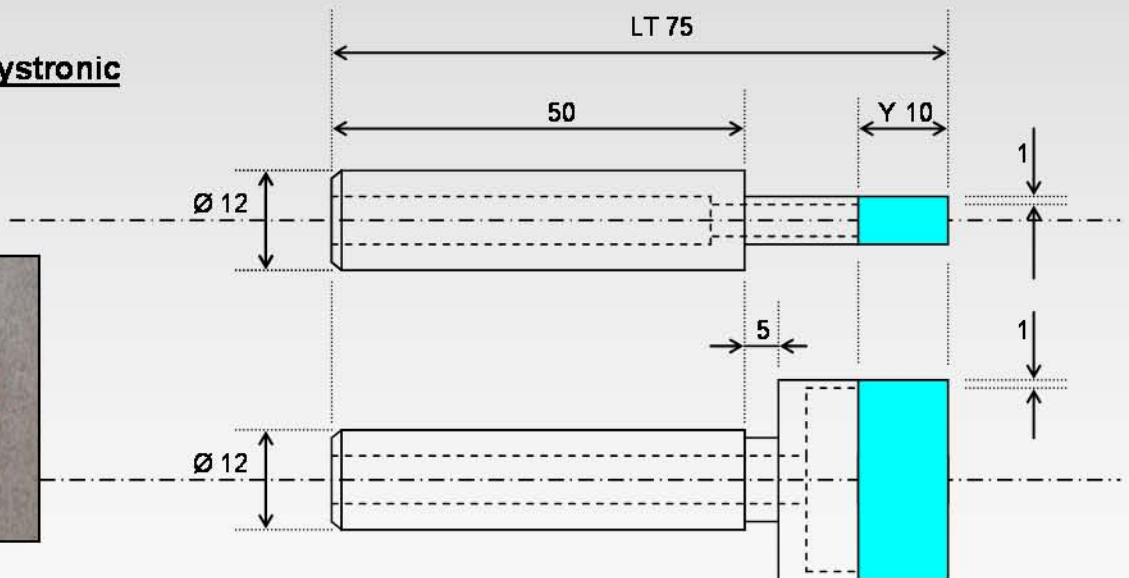
Habit & Jadem



1/2" BSF
16 TPI



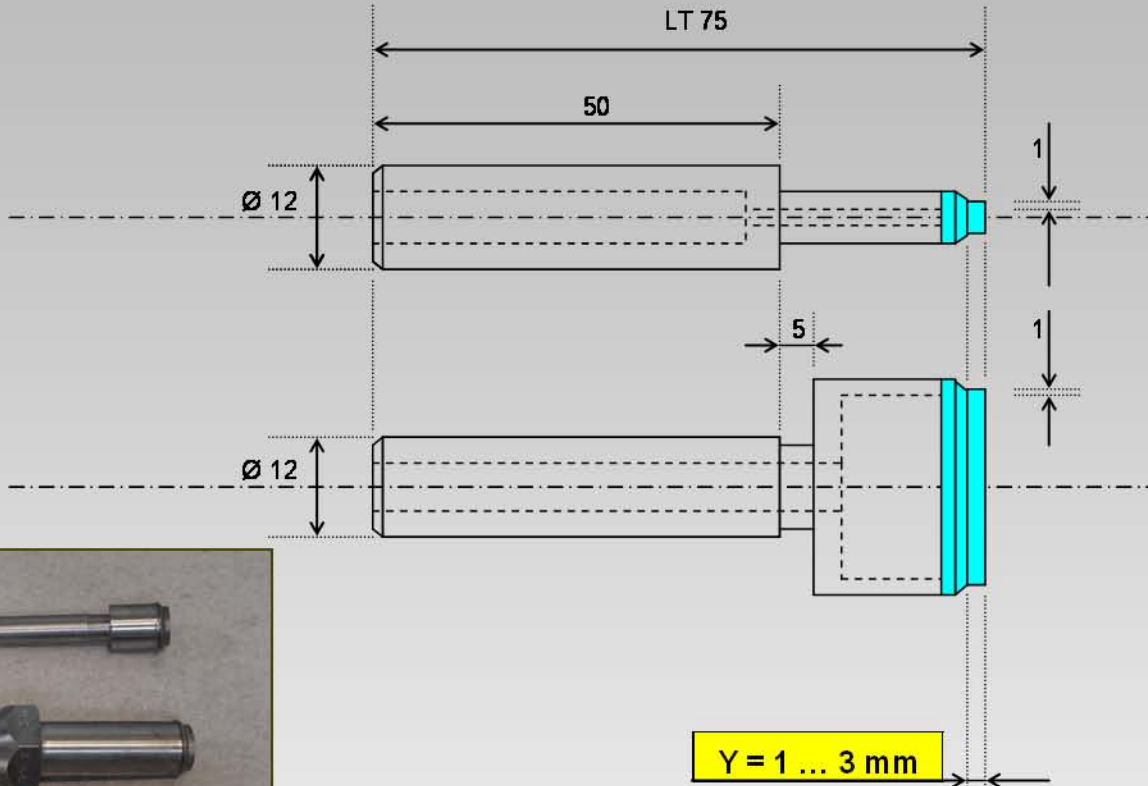
Bystronic



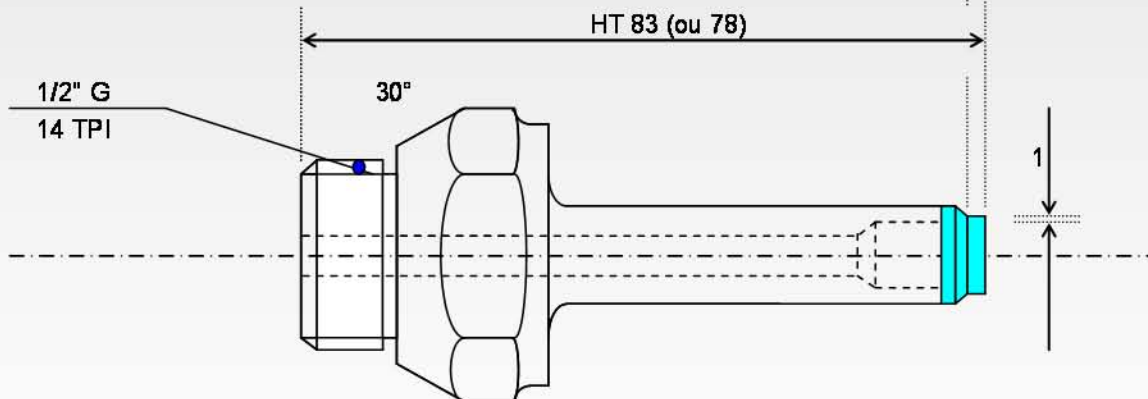
MONOBLOC CORE DRILLS WITH CUTTER - FFM



Bystronic

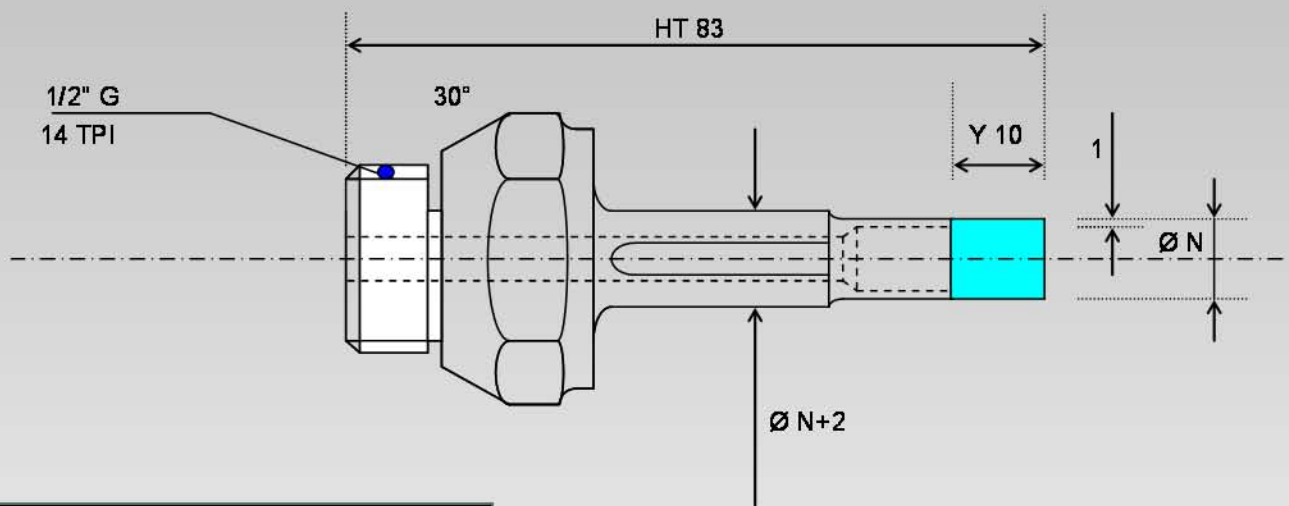


Matheys

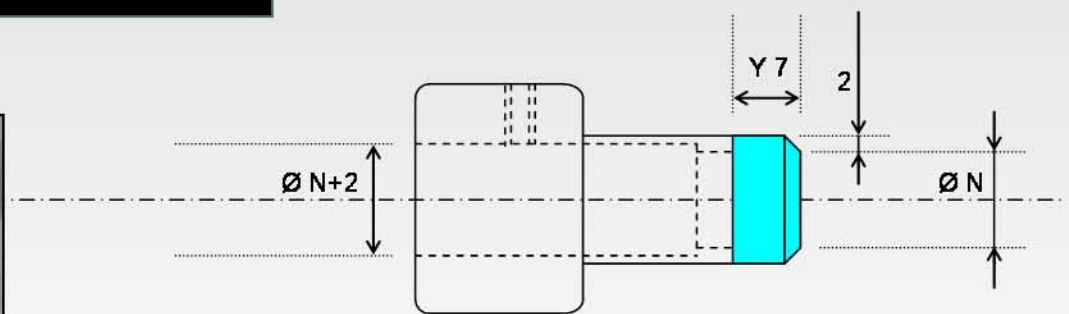


CORE DRILLS WITH SLIDING CUTTER - FFC

Matheys



SLIDING CUTTERS - FRC

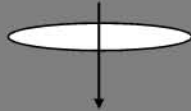


Diameter Range and Rotation Speed (Stone and Glass)



| Drill Diameter in mm | Diameters and Rotation Speed | | |
|-------------------------|--|------------|----------|
| | Rotation Speed (RPM) for Cutting Speeds of: | | |
| | 2 m/sec. | 2.5 m/sec. | 3 m/sec. |
| 4 | 9.500 | 11.900 | 14.300 |
| 5 | 7.600 | 9.500 | 11.400 |
| 6 | 6.300 | 7.900 | 9.500 |
| 7 | 5.400 | 6.800 | 8.100 |
| 8 | 4.700 | 5.900 | 7.100 |
| 9 | 4.200 | 5.300 | 6.300 |
| 10 | 3.800 | 4.700 | 5.700 |
| 11 | 3.400 | 4.300 | 5.200 |
| 12 | 3.100 | 3.900 | 4.700 |
| 13 | 2.900 | 3.600 | 4.400 |
| 14 | 2.700 | 3.400 | 4.000 |
| 15 | 2.500 | 3.100 | 3.800 |
| 16 | 2.380 | 2.900 | 3.500 |
| 17 | 2.240 | 2.800 | 3.300 |
| 18 | 2.120 | 2.600 | 3.100 |
| 19 | 2.010 | 2.500 | 3.000 |
| 20 | 1.900 | 2.380 | 2.800 |
| 21 | 1.810 | 2.270 | 2.700 |
| 22 | 1.730 | 2.170 | 2.600 |
| 23 | 1.660 | 2.070 | 2.490 |
| 24 | 1.590 | 1.980 | 2.380 |
| 25 | 1.520 | 1.900 | 2.290 |
| 26 | 1.460 | 1.830 | 2.200 |
| 27 | 1.410 | 1.760 | 2.120 |
| 28 | 1.360 | 1.700 | 2.040 |
| 29 | 1.310 | 1.640 | 1.970 |
| 30 | 1.270 | 1.590 | 1.900 |
| 32 | 1.190 | 1.490 | 1.790 |
| 34 | 1.120 | 1.400 | 1.680 |
| 36 | 1.060 | 1.320 | 1.590 |
| 38 | 1.000 | 1.250 | 1.500 |
| 40 | 950 | 1.190 | 1.430 |
| 42 | 900 | 1.130 | 1.360 |
| 45 | 840 | 1.060 | 1.270 |
| 50 | 760 | 950 | 1.140 |
| 55 | 690 | 860 | 1.040 |
| 60 | 630 | 790 | 950 |
| 65 | 580 | 730 | 880 |
| 70 | 540 | 680 | 810 |

Rotation Speed and Forwarding Speed (Glass)



| Rotation Speed in RPM | Rotation Speed and Operating Speed | | |
|--------------------------|---|--------------|--------------|
| | DRILLING: Feedrate in mm/sec for leads of: | | |
| | 20 microns/r | 30 microns/r | 40 microns/r |
| 6.000 | 2,00 | 3,00 | 4,00 |
| 5.800 | 1,93 | 2,90 | 3,87 |
| 5.600 | 1,87 | 2,80 | 3,73 |
| 5.400 | 1,80 | 2,70 | 3,60 |
| 5.200 | 1,73 | 2,60 | 3,47 |
| 5.000 | 1,67 | 2,50 | 3,33 |
| 4.800 | 1,60 | 2,40 | 3,20 |
| 4.600 | 1,53 | 2,30 | 3,07 |
| 4.400 | 1,47 | 2,20 | 2,93 |
| 4.200 | 1,40 | 2,10 | 2,80 |
| 4.000 | 1,33 | 2,00 | 2,67 |
| 3.800 | 1,27 | 1,90 | 2,53 |
| 3.600 | 1,20 | 1,80 | 2,40 |
| 3.400 | 1,13 | 1,70 | 2,27 |
| 3.200 | 1,07 | 1,60 | 2,13 |
| 3.000 | 1,00 | 1,50 | 2,00 |
| 2.800 | 0,93 | 1,40 | 1,87 |
| 2.700 | 0,90 | 1,35 | 1,80 |
| 2.600 | 0,87 | 1,30 | 1,73 |
| 2.500 | 0,83 | 1,25 | 1,67 |
| 2.400 | 0,80 | 1,20 | 1,60 |
| 2.300 | 0,77 | 1,15 | 1,53 |
| 2.200 | 0,73 | 1,10 | 1,47 |
| 2.100 | 0,70 | 1,05 | 1,40 |
| 2.000 | 0,67 | 1,00 | 1,33 |
| 1.900 | 0,63 | 0,95 | 1,27 |
| 1.800 | 0,60 | 0,90 | 1,20 |
| 1.700 | 0,57 | 0,85 | 1,13 |
| 1.600 | 0,53 | 0,80 | 1,07 |
| 1.500 | 0,50 | 0,75 | 1,00 |
| 1.400 | 0,47 | 0,70 | 0,93 |
| 1.300 | 0,43 | 0,65 | 0,87 |
| 1.200 | 0,40 | 0,60 | 0,80 |
| 1.100 | 0,37 | 0,55 | 0,73 |
| 1.000 | 0,33 | 0,50 | 0,67 |
| 900 | 0,30 | 0,45 | 0,60 |
| 800 | 0,27 | 0,40 | 0,53 |
| 700 | 0,23 | 0,35 | 0,47 |
| 600 | 0,20 | 0,30 | 0,40 |

| Glass Thickness | X Top | X Bottom |
|-----------------|-------|----------|
| 3 | 1,7 | 1,5 |
| 3,5 | 1,7 | 1,5 |
| 4 | 1,9 | 1,7 |
| 5 | 2,3 | 1,9 |

FFM : Feedrate -countersink = 30% Feedrate - drilling