

PRECISE MOUNTING OF VARIOUS SAMPLES

# SAMPLE HOLDERS

# Precise, Reproducible, Efficient

A range of sample holders is available to suit various applications. They enable precise and secure clamping of the samples and form the basis for efficient grinding and polishing processes. This ensures reproducible results while reducing process times.

- | Suitable for mounted samples and samples with complex geometries
- | A wide range of models to meet individual needs
- | Quick and precise clamping with a levelling device (accessory)
- | Stainless steel sample holders
- | A well-designed locking mechanism for quick and ergonomic sample holder changes



# SAMPLE HOLDERS FOR QPOL AND SAPHIR DEVICES

| WHICH SAMPLE HOLDER FITS WHICH DEVICE? |                        |                        |
|----------------------------------------|------------------------|------------------------|
| DEVICE                                 | SINGLE PRESSURE        | CENTRAL PRESSURE       |
| Qpol GO 1/2 (max. Ø 130 mm)            | Sample holder <b>M</b> | Sample holder <b>M</b> |
| Qpol PLUS 1/2 (max. Ø 185 mm)          | Sample holder <b>L</b> | Sample holder <b>L</b> |
| Qpol PRO (max. Ø 204 mm)               | Sample holder <b>L</b> | Sample holder <b>L</b> |
| Qpol XL                                | -                      | Sample holder <b>L</b> |
| Qgrind XL                              | -                      | Sample holder <b>L</b> |
| Qpol 250 BOT (max. Ø 160 mm)           | -                      | Sample holder <b>L</b> |
| Qpol 300 BOT                           | -                      | on request             |
| Saphir 550 / 560                       | on request             | Sample holder <b>L</b> |
| DISCONTINUED DEVICE                    | SINGLE PRESSURE        | CENTRAL PRESSURE       |
| Saphir 520 / 530                       | on request             | Sample holder <b>M</b> |
| Saphir 375                             | -                      | Sample holder <b>L</b> |
| Qpol ECO (until 2021, 5x Ø 40 mm)      | on request             | Sample holder <b>M</b> |
| Qpol ECO (as of 2022, 6x Ø 40 mm)      | Sample holder <b>M</b> | Sample holder <b>M</b> |
| Qpol ECO+ (max. Ø 185 mm)              | Sample holder <b>L</b> | Sample holder <b>L</b> |
| Qpol GO (until 06/2026)                | Sample holder <b>S</b> | -                      |



## SAMPLE HOLDER **M**

Compatible with Qpol GO 1 / GO 2

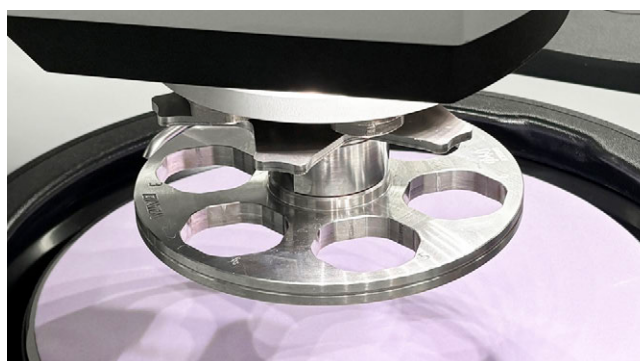
- Made of stainless steel

### FOR SINGLE PRESSURE

- Sample holder: Ø 130 mm
- Sample capacity: 6 samples (Ø 25–40 mm / 1–1.5 in)
- Stainless steel distance rings are available

### FOR CENTRAL PRESSURE

- Sample holder: Ø 130 mm
- Sample capacity (3-point clamping): 8, 6, and 5 samples (Ø 25–40 mm / 1–1.5")
- Sample capacity (droplet form): 5 samples (Ø 20–40 mm)



## SAMPLE HOLDER **L**

Compatible with Qpol PLUS 1 / PLUS 2 and Qpol PRO

- Made of stainless steel

### FOR SINGLE PRESSURE

- Sample holder: Ø 160 mm
- Sample capacity: 6 samples (Ø 25–50 mm / 1–2")
- Stainless steel distance rings are available

### FOR CENTRAL PRESSURE

- Sample holder: Ø 160–204 mm
- Sample capacity (3-point clamping): 12, 8, 6, 5, and 3 samples (Ø 25–60 mm / 1–2 in.)
- Sample capacity (droplet form): 6 samples (Ø 20–40 mm)



Single pressure

**SINGLE PRESSURE (FOR QPOL DEVICES)**

- I made of stainless steel
- I incl. adaption

**SAMPLE HOLDER M**

for Qpol GO 1/2,  
Qpol ECO (discontinued)



I Dimensions Ø 130 mm

| Size          | Order No.: |
|---------------|------------|
| 6x Ø 25 mm    | Z5445020   |
| 6x Ø 30 mm    | Z5445022   |
| 6x Ø 40 mm    | Z5445025   |
| 6x Ø 1"       | Z5445021   |
| 6x Ø 1 1/4"   | Z5445023   |
| 6x Ø 1 1/2"   | Z5445024   |
| 3x 55 x 30 mm | Z5445026   |

**SAMPLE HOLDER L**

for Qpol PLUS 1/2, Qpol PRO  
Qpol ECO+ (discontinued)



I Dimensions Ø 160 mm

| Size          | Order No.: |
|---------------|------------|
| 6x Ø 25 mm    | Z5446020   |
| 6x Ø 30 mm    | Z5446022   |
| 6x Ø 40 mm    | Z5446025   |
| 6x Ø 50 mm    | Z5446026   |
| 6x Ø 1"       | Z5446021   |
| 6x Ø 1 1/4"   | Z5446023   |
| 6x Ø 1 1/2"   | Z5446024   |
| 6x Ø 2"       | Z5446027   |
| 3x 55 x 30 mm | Z5446028   |
| 3x 60 x 40 mm | Z5446029   |



Insert suitable distance rings

**ACCESSORIES**

- I made of stainless steel

**DISTANCE RINGS M**

for Qpol GO 1/2,  
Qpol ECO (discontinued)

(please order 6 distance rings for a complete equipped sample holder)

for sample holder 6x Ø 40 mm

| Size    | Order No.: |
|---------|------------|
| Ø 25 mm | 05445011   |
| Ø 30 mm | 05445010   |

for sample holder 6x Ø 1 1/2"

|          |          |
|----------|----------|
| Ø 1"     | 05445013 |
| Ø 1 1/4" | 05445012 |

**DISTANCE RINGS L**

for Qpol PLUS 1/2, Qpol PRO  
Qpol ECO+ (discontinued)

for sample holder 6x Ø 50 mm

| Size    | Order No.: |
|---------|------------|
| Ø 25 mm | 05446012   |
| Ø 30 mm | 05446011   |
| Ø 40 mm | 05446010   |

for sample holder 6x Ø 2"

|          |          |
|----------|----------|
| Ø 1"     | 05446015 |
| Ø 1 1/4" | 05446014 |
| Ø 1 1/2" | 05446013 |

**SINGLE PRESSURE (FOR SAPHIR 550/560)**

- I incl. adaption

**SAMPLE HOLDER**

I Dimensions  
Ø 160 mm



| Size       | Order No.: |
|------------|------------|
| 6x Ø 50 mm | Z5400087   |

**DISTANCE RINGS**

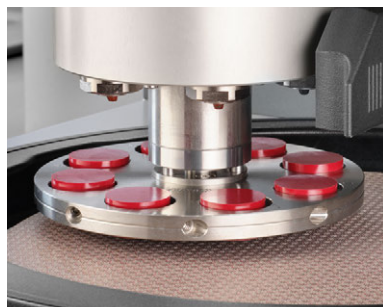
(please order 6 distance rings for a complete equipped sample holder)

for sample holder 6x Ø 50 mm

| Size    | Order No.: |
|---------|------------|
| Ø 25 mm | 05400086   |
| Ø 30 mm | 05400085   |
| Ø 32 mm | 05400084   |
| Ø 40 mm | 05400082   |

for sample holder 6x Ø 50 mm

| Size     | Order No.: |
|----------|------------|
| Ø 1"     | 05440138   |
| Ø 1 1/4" | 05440139   |
| Ø 1 1/2" | 05400083   |



Central pressure requires levelled samples

## CENTRAL PRESSURE

### SAMPLE HOLDER M (TEAR SHAPE)

for Qpol GO 1/2,  
Qpol ECO (discontinued)



I made of stainless steel

Samples 5x Ø 20-40 mm

Dimensions Ø 130 mm

Order No.: Z5445036

### SAMPLE HOLDER L (TEAR SHAPE)

for Qpol PLUS 1/2, Qpol PRO  
Qpol ECO+ (discontinued),  
Qpol 250 BOT, Qpol XL,  
Saphir 550/560



I incl. adaption

Samples 6x Ø 20-40 mm

Dimensions Ø 160 mm

Order No.: Z5446038

## CENTRAL PRESSURE

### SAMPLE HOLDER M (3-POINT-FIXATION)

for Qpol GO 1/2,  
Qpol ECO (discontinued)



I especially suitable for hot mounted samples  
I made of stainless steel

| Size          | Order No.: | Dimensions |
|---------------|------------|------------|
| 8x Ø 25 mm    | Z5445030   | Ø 130 mm   |
| 8x Ø 30 mm    | Z5445031   | Ø 130 mm   |
| 5x Ø 40 mm    | Z5445034   | Ø 130 mm   |
| 8 x Ø 1"      | Z5445030   | Ø 130 mm   |
| 8 x Ø 1 1/4"  | Z5445032   | Ø 130 mm   |
| 6 x Ø 1 1/2"  | Z5445033   | Ø 130 mm   |
| 3x 55 x 30 mm | Z5445035   | Ø 130 mm   |

### SAMPLE HOLDER L (3-POINT-FIXATION)

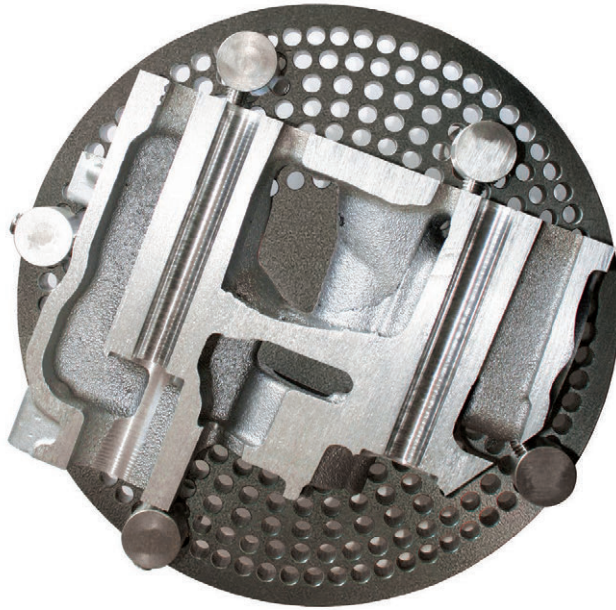
for Qpol PLUS 1/2, Qpol PRO,  
Qpol ECO+ (discontinued),  
Qpol 250 BOT, Qpol XL, Saphir 550/560



I incl. adaption

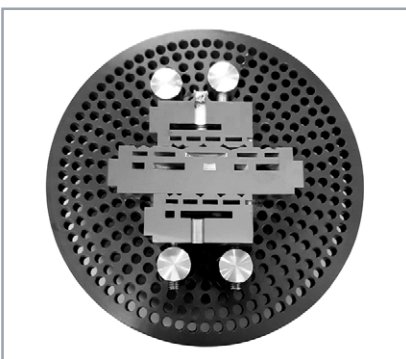
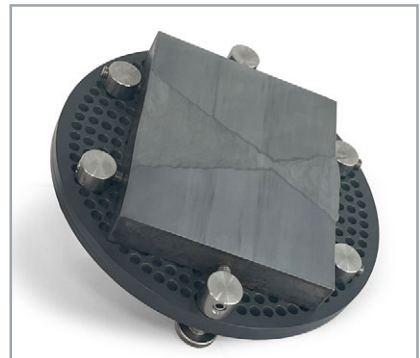
| Size           | Order No.: | Dimensions |
|----------------|------------|------------|
| 12 x Ø 25 mm   | Z5446030   | Ø 160 mm   |
| 8 x Ø 30 mm    | Z5446031   | Ø 160 mm   |
| 6 x Ø 40 mm    | Z5446034   | Ø 160 mm   |
| 5 x Ø 50 mm    | Z5446035   | Ø 160 mm   |
| 3 x Ø 60 mm    | Z5446042   | Ø 185 mm   |
| 5 x Ø 70 mm    | Z5446044   | Ø 204 mm   |
| 12 x Ø 1"      | Z5446030   | Ø 160 mm   |
| 8 x Ø 1 1/4"   | Z5446032   | Ø 160 mm   |
| 6 x Ø 1 1/2"   | Z5446033   | Ø 160 mm   |
| 5 x Ø 2"       | Z5446035   | Ø 160 mm   |
| 3x 55 x 30 mm  | Z5446036   | Ø 160 mm   |
| 3x 60 x 40 mm  | Z5446037   | Ø 160 mm   |
| 3x 70 x 40 mm  | Z5446043   | Ø 185 mm   |
| 3x 100 x 50 mm | Z5446045   | Ø 204 mm   |

## SPECIAL SOLUTIONS

UNIVERSAL SAMPLE HOLDER  
FOR CENTRAL PRESSURE

Samples with big dimensions or complicated geometries which normally need manual preparation can be fixed with the universal sample holder for automatic grinding and polishing.

- | The sample holders are available in the fixture variants M and L
- | For fixing the sample on the sample holder you can choose between different clamping fixtures
- | Made of anodised aluminium



# UNIVERSAL SAMPLE HOLDER FOR CENTRAL PRESSURE

## TIPS FOR YOUR PRACTICE

- | The sample should be prepared as plane parallel as possible (max. difference 0.5-1 mm)
- | The sample should be as flat as possible (depending on clamping set min. 12, max. 20-25 mm)
- | The samples should have a minimum size to prevent the sample holder from tilting.  
This minimizes vibrations in the machine and unevenness on the preparation surface  
(empirical formula: outer sample diameter : sample height > 6:1)
- | The holder should be as small as possible, so the preparation takes place at the outer areas of the working wheel
- | Samples should lie flat - otherwise they can be supported by the supporting set.
- | Depending on the application and preparation parameters, high shear forces can occur during preparation.  
Sufficient fixation of the sample on the sample holder must be ensured.

## UNIVERSAL SAMPLE HOLDER

Dimensions **Order No.:**

for fixture M

Ø 140 mm **Z5445037**

for fixture L

Ø 160 mm **Z5446039**

Ø 185 mm **Z5446040**

Ø 204 mm **Z5446041**



For the sample height the capacity of the grinding and polishing machine must be taken into account:

| Device         | Sample height |
|----------------|---------------|
| Qpol GO 1/2    | 10 - 15 mm    |
| Qpol PLUS 1/2  | 10 - 15 mm    |
| Qpol PRO       | 10 - 25 mm    |
| Saphir 550/560 | 10 - 25 mm    |
| Qpol/Qgrind XL | 10 - 25 mm    |
| Qpol 250 BOT   | 10 - 20 mm    |

## ACCESSORIES

### SUPPORTING SET (1 PIECE)

for supporting from 3 to 12 mm

**Order No.: Z5440101**



### CLAMPING SET (1 PIECE)

for individual lateral clamping of samples

Clamping set 1 clamping head height\* 10 mm

Clamping set 2 clamping head height\* 12 mm

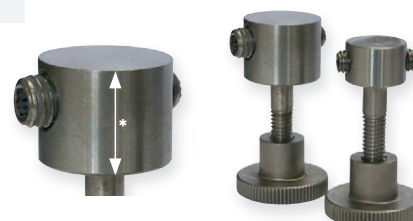
Clamping set 3 clamping head height\* 16 mm

**Order No.:**

**Z5440102**

**Z5440103**

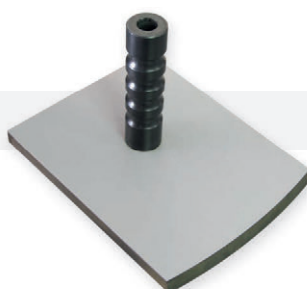
**Z5440104**



### BASE STAND

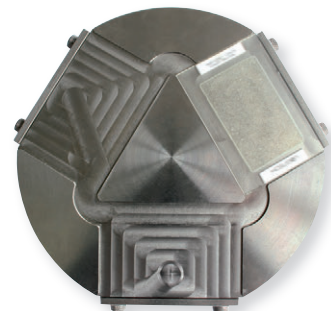
for easy clamping of the sample on the sample holder

**Order No.: Z5440092**

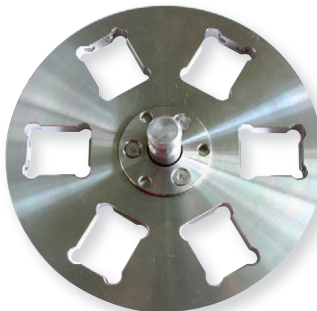
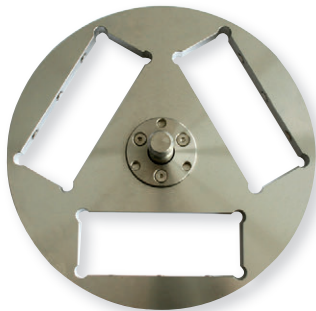


## SPECIAL SOLUTIONS

## SPECIAL SAMPLE HOLDERS



The problem of clamping samples with special dimensions can be solved with special sample holders.



# ACCESSORIES FOR AUTOMATIC GRINDING & POLISHING MACHINES

## LEVELLING



### CENTRAL PRESSURE

#### LEVELLING PLATE

| sample holder | sample protruding |                     |
|---------------|-------------------|---------------------|
| Ø 130 mm      | 2 mm              | Order No.: 05400356 |
| Ø 130 mm      | 4 mm              | Order No.: 05400372 |
| Ø 160 mm      | 2 mm              | Order No.: 05400114 |
| Ø 160 mm      | 4 mm              | Order No.: 05400246 |
| Ø 185 mm      | 2 mm              | Order No.: 05400188 |
| Ø 185 mm      | 4 mm              | Order No.: 05400260 |
| Ø 204 mm      | 2 mm              | Order No.: 05400194 |
| Ø 204 mm      | 4 mm              | Order No.: 05440021 |

### LEVELLING DEVICE WITH CLAMPING AID

Thanks to the pneumatic clamping system, sample holders for central pressure can be fixed quickly and without effort at a uniform level.

The sample spacing is infinitely adjustable and suitable for all standard sample diameters. The dissociation aid is used to gently detach the prepared samples.

The advantage of the levelling device is that it significantly reduces preparation time – especially during plane grinding.



Video:  
Working with  
central pressure  
**LEVELLING DEVICE**



### CENTRAL PRESSURE

#### LEVELLING DEVICE WITH UNLOADING AID

I aid for plane-parallel sample fixation

|                         |                    |
|-------------------------|--------------------|
| Sample holder           | Ø 160, 185, 204 mm |
| Sample distance         | variable, 1-6 mm   |
| Compressed air required | 6 bar              |

Order No.: M1320002

### ACCESSORIES

#### CONNECTION SET

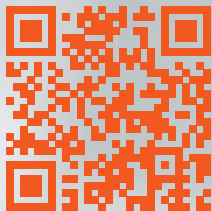
1 pressure tube 3 m, with coupling and connection thread R 3/8"

Order No.: Z1320000

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