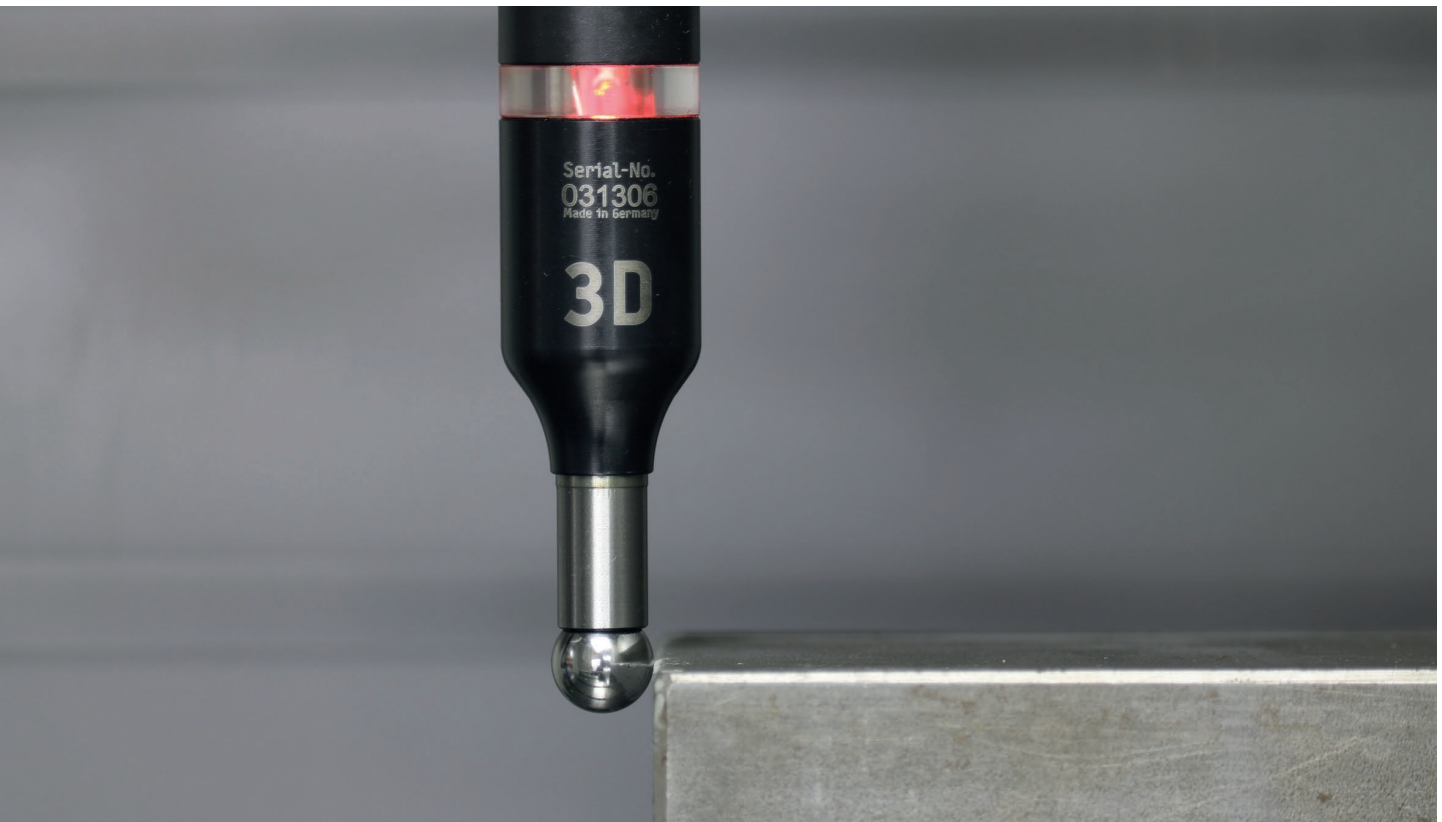




TSCHORN®

Probes & Tools Technology



Edge finders optical



Edge finders 3D

**Developed by us.
Produced only by us.**

Functionality:

If a conductive workpiece and the probing ball touch (within the axis X, Y and Z), the electrical circuit gets closed and a LED signal appears.

When the LED signal appears, the workpiece's edge is reached with a distance of 5 mm (= radius of probing ball $\varnothing 10$).

In Z axis, the reference length has to be measured and taken into account respectively.

Probing X/Y axis

Probing X/Y axis

Pass over

Probing Z axis





Probing accuracy ≤ 0.010 mm !

3D version:
Probing in X, Y and Z !



Edge finders optical

Application:

For accurate zero point determination and bore centers to the spindle with an accuracy of probing smaller than 0.010 mm.

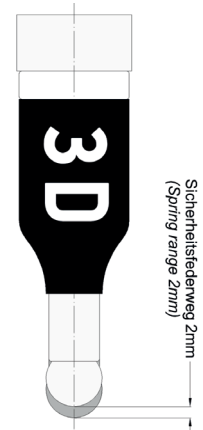
Please note:

Protection against humidity is essential for the edge finder due to the built-in electronic components.

Delivery includes:

Edge finder with serial number and test certificate.

| Article No. | Description | Shank | Length | Probing ball | Battery |
|-------------|----------------|-------|-------------|--------------|--------------|
| 001031200 | Edge finder 3D | Ø12 | approx. 111 | Ø10 | 12V-Type 27A |
| 001031600 | Edge finder 3D | Ø16 | approx. 111 | Ø10 | 12V-Type 23A |
| 001032000 | Edge finder 3D | Ø20 | approx. 106 | Ø10 | 12V-Type 23A |
| 001032500 | Edge finder 3D | Ø25 | approx. 116 | Ø10 | 12V-Type 23A |



Edge finders optical 3D in wooden case

| Article No. | Description | Shank | Length | Probing ball | Battery |
|-------------|----------------|-------|-------------|--------------|--------------|
| 001031299 | Edge finder 3D | Ø12 | approx. 111 | Ø10 | 12V-Type 27A |
| 001031699 | Edge finder 3D | Ø16 | approx. 111 | Ø10 | 12V-Type 23A |
| 001032099 | Edge finder 3D | Ø20 | approx. 106 | Ø10 | 12V-Type 23A |
| 001032599 | Edge finder 3D | Ø25 | approx. 116 | Ø10 | 12V-Type 23A |

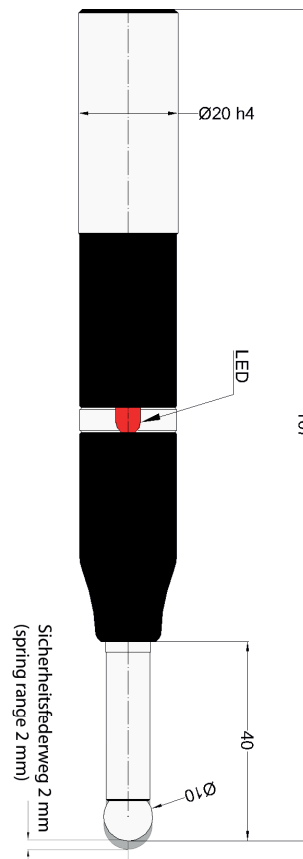


3D Precision probe

3D Precision probe

Probing accuracy $\leq 0.005 \text{ mm}$!

3D version: !
Probing in X, Y and Z



Application:

Our 3D precision probe is a highly precise measuring device which gives out highly precise three dimensional probing results on metal-cutting machines.

Accuracy:

Within all three axis, the accuracy of probing is smaller than $0.005 \mu\text{m}$.

Please note:

Protection against humidity is essential for the edge finder due to the built-in electrical components.

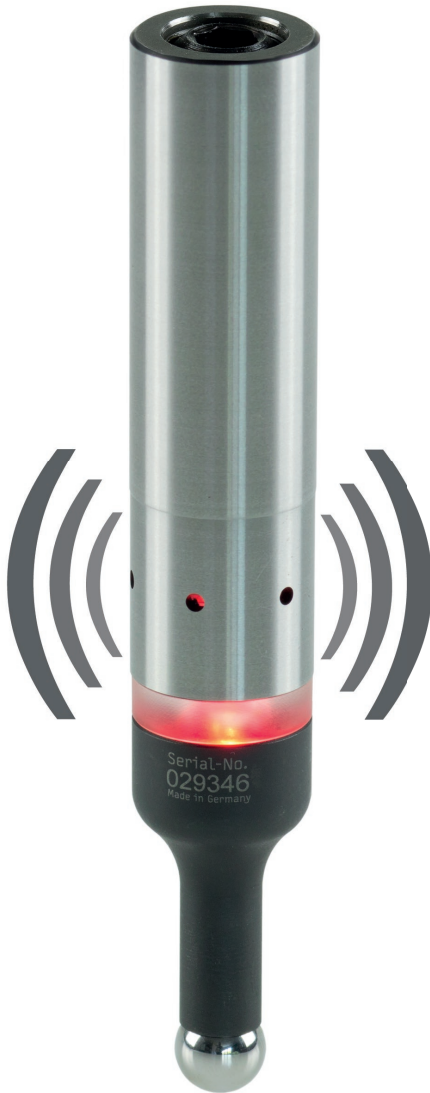
Delivery includes:

3D precision probe with serial number and test certificate in a plastic case (for clean storage).

| Article no. | Description | Shank | Length | Probing ball | Battery |
|-------------|--------------------|-------|-------------|--------------|-------------|
| 001532000 | 3D precision probe | Ø20 | approx. 167 | Ø10 | 12V-Typ 23A |



Edge finders optical & acoustic



Probing accuracy ≤ 0.010 mm !

3D version:
Probing in X, Y and Z !

2D version:
Probing in X and Y !

Edge find. opt. & acoust.



Application:

For accurate zero point determination and bore centers to the spindle with an accuracy of probing smaller than 0.010 mm. When you reach the position, you hear an additional acoustic signal.

Please note:

Protection against humidity is essential for the edge finder due to the built-in electrical components.

Delivery includes:

Edge finder with serial number and test certificate in a plastic case.

| Article no | Description | Shank | Length | Probing ball | Battery |
|------------|-----------------------------------|-------|-------------|--------------|-------------|
| 001122000 | Edge finder optical + acoustic 2D | Ø20 | approx. 119 | Ø10 | 12V-Typ 23A |
| 001132000 | Edge finder optical + acoustic 3D | Ø20 | approx. 131 | Ø10 | 12V-Typ 23A |

Edge finder optical 2D

Probing accuracy ≤ 0.010 mm !

2D version:
Probing in X and Y !



Application:

For accurate zero point determination and bore centers to the spindle with an accuracy of probing smaller than 0.010 mm.

Please note:

Protection against humidity is essential for the edge finder due to the built-in electrical components.

Delivery includes:

Edge finder with serial number and test certificate in a plastic case.

| Article No. | Description | Shank | Length | Probing ball | Battery |
|-------------|----------------|-------|-------------|--------------|--------------|
| 001021200 | Edge finder 2D | Ø12 | approx. 99 | Ø10 | 12V-Type 27A |
| 001021600 | Edge finder 2D | Ø16 | approx. 99 | Ø10 | 12V-Type 23A |
| 001022000 | Edge finder 2D | Ø20 | approx. 94 | Ø10 | 12V-Type 23A |
| 001022500 | Edge finder 2D | Ø25 | approx. 104 | Ø10 | 12V-Type 23A |
| 00102M200 | Edge finder 2D | MK2 | approx. 133 | Ø10 | 12V-Type 27A |

Edge finder optical 2D in wooden case

| Article No. | Description | Shank | Length | Probing ball | Battery |
|-------------|----------------|-------|-------------|--------------|--------------|
| 001021299 | Edge finder 2D | Ø12 | approx. 99 | Ø10 | 12V-Type 27A |
| 001021699 | Edge finder 2D | Ø16 | approx. 99 | Ø10 | 12V-Type 23A |
| 001022099 | Edge finder 2D | Ø20 | approx. 94 | Ø10 | 12V-Type 23A |
| 001022599 | Edge finder 2D | Ø25 | approx. 104 | Ø10 | 12V-Type 23A |



Edge finder optical 2D Eco

TSCHORN^{ECO}

The cost-effective version of our optical 2D edge finder:
without serial number, without factory certificate - but Made in Germany

| Article No. | Description | Shank | Length | Probing ball | Battery |
|-------------|----------------|-------|------------|--------------|--------------|
| 0010216EP | Edge finder 2D | Ø16 | approx. 99 | Ø10 | 12V-Type 23A |
| 0010220EP | Edge finder 2D | Ø20 | approx. 94 | Ø10 | 12V-Type 23A |



Edge finders optical



Crashed? Contact your reseller for repair service!

Spare parts for optical edge finders

| Article No. | Description | Volt |
|-------------|-------------------|------|
| 0011Z6000 | Spare battery 23A | 12V |
| 0012Z6000 | Spare battery 27A | 12V |

