



Finish. First.



ATB<sup>®</sup> - Advanced Technology Brush System  
Efficient deburring with brushes

# ATB®

## Introduction

### Extremely long life

- Lower cost per piece for the deburring process
- High process stability
- Reduced set-up costs and down times

### Flexible long life

- Dimensionally stable, also with longer trim lengths and high rotational speeds

### High-tech filaments

- High density of abrasive grit for powerful deburring
- Can be used with coolants

### Extremely high fill density with even surface

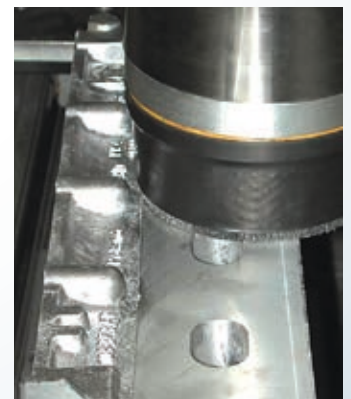
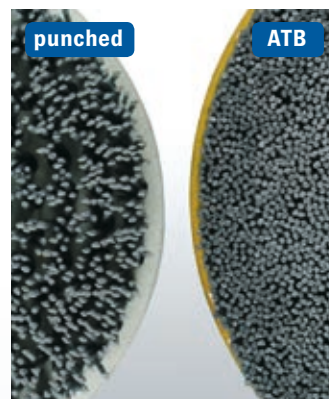
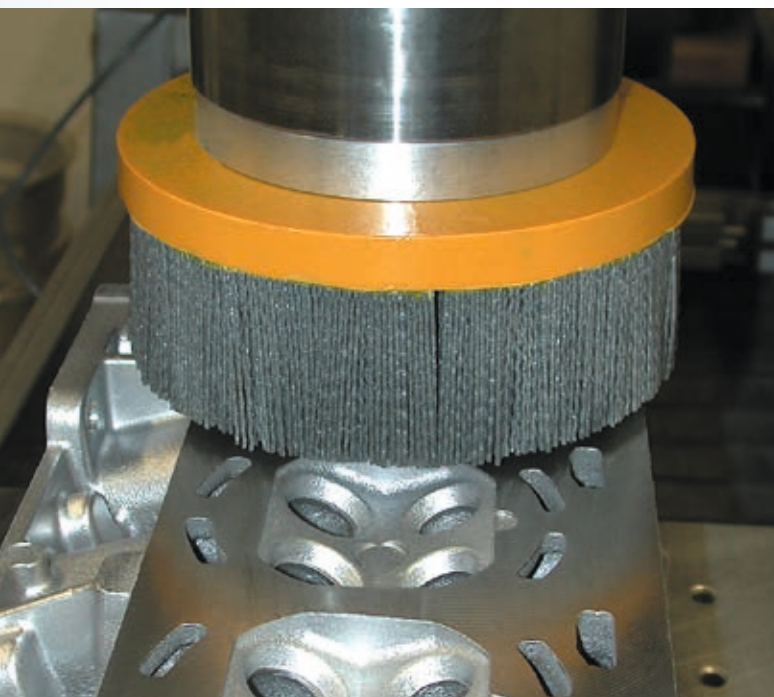
Shorter operating times and very even edge blending. Particularly suitable for deburring of:

- machined surfaces
- sintered products
- stampings and mouldings
- diecasted parts
- cylinder heads
- motor units
- hydraulic parts
- pneumatic parts



of different geometries and materials.

The fill density of the new ATB disc brushes is 4 times higher than of other disc brushes manufactured conventionally as punched brushes! By this the brush life is increased many times over, with quicker processing times and better and more efficient deburring results. At the same time the wear behaviour is controllable. This is a necessary precondition for wear compensation "adjustment" on modern CNC-machines and machining centers.



On request stabilization of the fill material is possible through a supporting sleeve.

**ATB brush with maximum fill density compatible with clamping fixture**



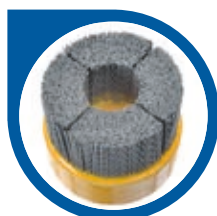
For deburring applications of components with various materials just as e.g. steel, aluminum and cast iron.

| mm      |               |               | INDEX                  |   | à | grit 80      | grit 120     |
|---------|---------------|---------------|------------------------|---|---|--------------|--------------|
| Total Ø | Trim length T | Bore diameter | for clamping fixture   |   |   | Order-No.    | Order-No.    |
| 50      | 35            | 16 Hexagonal  | K = fixture with shank | 1 |   | 6701-604 912 | 5411-604 912 |
| 76      | 35            | 16 Hexagonal  | L = fixture with shank | 1 |   | 3111-604 913 | 9841-604 913 |
| 85      | 35            | 16 Hexagonal  | J = fixture with shank | 1 |   | 6201-604 914 | 1601-604 914 |
| 106     | 35            | 16 Hexagonal  | H = fixture with shank | 1 |   | 3101-604 914 | 3221-604 914 |

| mm      |               |               | INDEX                  |   | à | grit 180     | grit 320     |
|---------|---------------|---------------|------------------------|---|---|--------------|--------------|
| Total Ø | Trim length T | Bore diameter | for clamping fixture   |   |   | Order-No.    | Order-No.    |
| 50      | 35            | 16 Hexagonal  | K = fixture with shank | 1 |   | 5431-604 912 | 5441-604 912 |
| 76      | 35            | 16 Hexagonal  | L = fixture with shank | 1 |   | 3311-604 913 | 3151-604 913 |
| 85      | 35            | 16 Hexagonal  | J = fixture with shank | 1 |   | 2211-604 914 | 6231-604 914 |
| 106     | 35            | 16 Hexagonal  | H = fixture with shank | 1 |   | 3321-604 914 | 3401-604 914 |

Price on request.



## ATB brush with max. fill density for tool holders



For deburring applications of sealing and contact surfaces as well as functional areas for a wide range of components. Use on stationary machines with cooling lubricant, water or oil is recommended.

| mm      |               | INDEX          |                               |      | grit 80             | grit 120            |
|---------|---------------|----------------|-------------------------------|------|---------------------|---------------------|
| Total Ø | Trim length T | Bore diameter  | for clamping fixture          | pcs. | Order-No.           | Order-No.           |
| 125     | 40            | 18 + Driv.hole | <b>C</b> = fixture for HSK/SK | 1    | <b>3101-604 916</b> | <b>3201-604 916</b> |
| 150     | 40            | 18 + Driv.hole | <b>D</b> = fixture for HSK/SK | 1    | <b>3111-604 916</b> | 3211-604 916        |
| 175     | 40            | 18 + Driv.hole | <b>E</b> = fixture for HSK/SK | 1    | 3131-604 916        | 3231-604 916        |
| 200     | 40            | 18 + Driv.hole | <b>F</b> = fixture for HSK/SK | 1    | 8411-604 918        | 4021-604 918        |
| 250     | 38            | 18 + Driv.hole | <b>G</b> = fixture for HSK/SK | 1    | 6511-604 919        | 6171-604 916        |

| mm      |               | INDEX          |                               |      | grit 180            | grit 320     |
|---------|---------------|----------------|-------------------------------|------|---------------------|--------------|
| Total Ø | Trim length T | Bore diameter  | for clamping fixture          | pcs. | Order-No.           | Order-No.    |
| 125     | 40            | 18 + Driv.hole | <b>C</b> = fixture for HSK/SK | 1    | <b>3311-604 916</b> | 3401-604 916 |
| 150     | 40            | 18 + Driv.hole | <b>D</b> = fixture for HSK/SK | 1    | 4341-604 916        | 3411-604 916 |
| 175     | 40            | 18 + Driv.hole | <b>E</b> = fixture for HSK/SK | 1    | 3341-604 916        | 3431-604 916 |
| 200     | 40            | 18 + Driv.hole | <b>F</b> = fixture for HSK/SK | 1    | 5901-604 918        |              |
| 250     | 38            | 18 + Driv.hole | <b>G</b> = fixture for HSK/SK | 1    | <b>2401-604 919</b> |              |

Price on request.



## Clamping fixture for ATB brushes



ATB brush with fixed clamping fixture.

For ATB brushes with diameter:

|                                             |      | INDEX K<br>Ø 50 mm | INDEX L<br>Ø 76 mm | INDEX J<br>Ø 85 mm | INDEX H<br>Ø 106 mm |
|---------------------------------------------|------|--------------------|--------------------|--------------------|---------------------|
| clamping fixture                            | pcs. | Order-No.          | Order-No.          | Order-No.          | Order-No.           |
| with shank Ø 12 mm and clamping DIN 6535 HB | 1    | 5002-075 000       | 3642-075 000       | 9602-075 000       | 3652-075 000        |

|                                        |      | INDEX C<br>Ø 125 mm | INDEX D<br>Ø 150 mm | INDEX E<br>Ø 175 mm | INDEX F<br>Ø 200 mm | INDEX G<br>Ø 250 mm |
|----------------------------------------|------|---------------------|---------------------|---------------------|---------------------|---------------------|
| clamping fixture                       | pcs. | Order-No.           | Order-No.           | Order-No.           | Order-No.           | Order-No.           |
| for inclusion on clamping cones HSK/SK | 1    | 3602-075 000        | 3612-075 000        | 3622-075 000        | 3692-075 000        | 1922-075 000        |

Price on request.

## Tool holder



ATB-brush with assembled HSK-cone.

| Tool Holders                                            | for INDEX            | pcs. | Order-No.           |
|---------------------------------------------------------|----------------------|------|---------------------|
| HSK – A63, DIN 69893A                                   | <b>C, D, E, F, G</b> | 1    | <b>3603-604 000</b> |
| HSK – A100, DIN 69893A                                  | <b>C, D, E, F, G</b> | 1    | <b>3633-604 000</b> |
| SK – 40, DIN 69871                                      | <b>C, D, E, F, G</b> | 1    | 3613-604 000        |
| Weldon surface with shank Ø 12 mm, HSK – 63 DIN 69893A  | <b>H, J, K, L</b>    | 1    | 4933-604 000        |
| Weldon surface with shank Ø 12 mm, HSK – 100 DIN 69893A | <b>H, J, K, L</b>    | 1    | 6303-604 000        |

Price on request.



Items available immediately from stock are printed in bold type. Please contact us for other sizes/materials: [service@osborn.de](mailto:service@osborn.de)

## ATB brush with max. fill density for shell mill mount



For deburring applications of sealing and contact surfaces as well as functional areas for a wide range of components. Use on stationary machines with cooling lubricant, water or oil is recommended. For direct mounting on shell mill holders without need of additional clamping sets / systems.

| mm      |               |               | INDEX                       |      | grit 80      | grit 120     |
|---------|---------------|---------------|-----------------------------|------|--------------|--------------|
| Brush Ø | Trim length T | Bore diameter | for fixture                 | pcs. | Order-No.    | Order-No.    |
| 50      | 35            | Ø 16 +keyways | Direct to shell mill holder | 1    | 6601-604 912 | 6501-604 912 |
| 76      | 35            | Ø 16 +keyways | Direct to shell mill holder | 1    | 6301-604 913 | 6311-604 913 |
| 76      | 35            | Ø 22 +keyways | Direct to shell mill holder | 1    | 5521-604 913 | 5511-604 913 |
| 106     | 35            | Ø 16 +keyways | Direct to shell mill holder | 1    | 5431-604 914 | 5511-604 914 |
| 106     | 35            | Ø 22 +keyways | Direct to shell mill holder | 1    | 5501-604 914 | 5791-604 914 |
| 106     | 35            | Ø 27 +keyways | Direct to shell mill holder | 1    | 5601-604 914 | 5611-604 914 |
| 125     | 35            | Ø 16 +keyways | Direct to shell mill holder | 1    | 6751-604 916 | 6801-604 916 |
| 125     | 35            | Ø 22 +keyways | Direct to shell mill holder | 1    | 6721-604 916 | 6821-604 916 |
| 125     | 35            | Ø 27 +keyways | Direct to shell mill holder | 1    | 6761-604 916 | 6811-604 916 |
| 150     | 35            | Ø 22 +keyways | Direct to shell mill holder | 1    | 6771-604 916 | 6841-604 916 |
| 150     | 35            | Ø 27 +keyways | Direct to shell mill holder | 1    | 6781-604 916 | 6831-604 916 |

| mm      |               |               | INDEX                       |      | grit 180     |
|---------|---------------|---------------|-----------------------------|------|--------------|
| Brush Ø | Trim length T | Bore diameter | for fixture                 | pcs. | Order-No.    |
| 50      | 35            | Ø 16 +keyways | Direct to shell mill holder | 1    | 6401-604 912 |
| 76      | 35            | Ø 16 +keyways | Direct to shell mill holder | 1    | 6321-604 913 |
| 76      | 35            | Ø 22 +keyways | Direct to shell mill holder | 1    | 5501-604 913 |
| 106     | 35            | Ø 16 +keyways | Direct to shell mill holder | 1    | 5441-604 914 |
| 106     | 35            | Ø 22 +keyways | Direct to shell mill holder | 1    | 5521-604 914 |
| 106     | 35            | Ø 27 +keyways | Direct to shell mill holder | 1    | 5621-604 914 |
| 125     | 35            | Ø 16 +keyways | Direct to shell mill holder | 1    | 6631-604 916 |
| 125     | 35            | Ø 22 +keyways | Direct to shell mill holder | 1    | 6621-604 916 |
| 125     | 35            | Ø 27 +keyways | Direct to shell mill holder | 1    | 6641-604 916 |
| 150     | 35            | Ø 22 +keyways | Direct to shell mill holder | 1    | 6651-604 916 |
| 150     | 35            | Ø 27 +keyways | Direct to shell mill holder | 1    | 6661-604 916 |

Price on request.

## ATB brush TURBO-Line



Brushes for continuous deburring lines with planetary heads. Application: flat parts produced and deburred in punching, lasered, fine blanking or forming technology.

The Turbo-style sections of the filament can be angled to the right or to the left in a defined angle. Depending on the direction of rotation, the deburring will be more aggressive and effective or the brush is reaching a surface finish only.

| mm      |               |                        | INDEX               |      | grit 80             | grit 120     |
|---------|---------------|------------------------|---------------------|------|---------------------|--------------|
| Brush Ø | Trim length T | Bore diameter          | material direction  | pcs. | Order-No.           | Order-No.    |
| 150     | 25            | Ø 25/35 + 2 driv.holes | Turbo style-neutral | 1    | <b>3141-604 916</b> | 3241-604 916 |
| 150     | 25            | Ø 25/35 + 2 driv.holes | Turbo style-right   | 1    | 3181-604 916        | 3281-604 916 |
| 150     | 25            | Ø 25/35 + 2 driv.holes | Turbo style-left    | 1    | 3161-604 916        | 3261-604 916 |

| mm      |               |                        | INDEX               |      | grit 180     | grit 320     |
|---------|---------------|------------------------|---------------------|------|--------------|--------------|
| Brush Ø | Trim length T | Bore diameter          | material direction  | pcs. | Order-No.    | Order-No.    |
| 150     | 25            | Ø 25/35 + 2 driv.holes | Turbo style-neutral | 1    | 3351-604 916 | 3441-604 916 |
| 150     | 25            | Ø 25/35 + 2 driv.holes | Turbo style-right   | 1    | 3391-604 916 | 3481-604 916 |
| 150     | 25            | Ø 25/35 + 2 driv.holes | Turbo style-left    | 1    | 3371-604 916 | 3461-604 916 |

Price on request.



**i** Items available immediately from stock are printed in bold type. Please contact us for other sizes/materials: [service@osborn.de](mailto:service@osborn.de)



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