



## Micro Die Grinder / Engraver / Air File



### 76002Z 76003Z

#### Micro Die Grinder

- Capacity :  
76002Z : 3 mm or 1/8"  
76003Z : 3 mm & 6 mm or  
(1/8" & 1/4")
- Ideal for deburring, contouring and light grinding when used with a rotary burr.



### 76200Z

#### Micro 120° Angle Grinder

- 120 Degree Angle
- Capacity : 30 mm (1.2")
- Micro grinder is excellent for deburring, contouring and light grinding.



### 76301

#### Micro 90° Angle Die Grinder

- 90 Degree Angle
- Capacity : 3 mm or 1/8"
- Ideal for deburring, contouring and light grinding when used with a rotary burr



### 82021Z

#### Air Engraver

- Marking for identification
- Twist throttle for variable speed
- Pen-style engraver for easy use on plastics, wood, stone, metal and even steel

| Item No. | Speed<br>RPM<br> | Power<br>KW/HP<br> | Length<br>mm/inch<br> | Weight<br>kg/lb<br> | Air Consumption<br>LPM / CFM<br> | Air Inlet<br>inch<br> | Vibration<br>m/s <sup>2</sup><br> | Noise Level<br>LpA / LwA<br> | Working Pressure<br>Bar / PSI<br> |
|----------|------------------|--------------------|-----------------------|---------------------|----------------------------------|-----------------------|-----------------------------------|------------------------------|-----------------------------------|
| 76002Z   | 60,000           | 90 W (0.13)        | 156 (6.1)             | 0.4 (0.8)           | 50 (1.8)                         | 1/4                   | < 2.5                             | 77.2 / 88.2 DB               | 6.2 (90)                          |
| 76003Z   | 35,000           | 0.22 (0.30)        | 175 (6.9)             | 0.4 (0.8)           | 70 (2.5)                         | 1/4                   | < 2.5                             | 76.9 / 87.9 DB               | 6.2 (90)                          |
| 76200Z   | 23,000           | 96 W (0.13)        | 160 (6.3)             | 0.2 (0.5)           | 50 (1.8)                         | 1/4                   | < 2.5                             | 77.5 / 88.5 DB               | 6.2 (90)                          |
| 76301    | 72,000           | 60 W (0.08)        | 156 (6.1)             | 0.2 (0.5)           | 40 (1.4)                         | 1/4                   | < 2.5                             | 76.6 / 87.6 DB               | 6.2 (90)                          |
| 82021Z   | 13,000 BPM       | -                  | 155 (6.1)             | 0.2 (0.5)           | 51 (1.8)                         | 1/4                   | 3.00                              | 90.0 / 101.0 DB              | 6.2 (90)                          |



9 mm stroke

### 82022

- Ideal for finishing operation on cast iron, molding parts.
- Tool comes with flat cut, half-round, round and triangle files.



1 mm stroke

1 mm stroke

### 89801

### 89801L

- Standard Accessories :  
3 x Rectangular Diamond Files  
(2 mm, 4 mm & 6 mm)  
2 x Stone Holders  
(1 mm & 3 mm)  
1 x Hex. Wrench (2.5 mm)  
1 x Oiler



5 mm stroke

10 mm stroke

### 89802

### 89803

- Suitable for precise casting filing, also perfect for mould surface lapping
- Adjustable air exhaust
- Rubber sleeve adds more grip and comfort.



5 mm stroke

10 mm stroke

### 89802L

### 89803L

- Standard Accessories :  
4 x 5 mm Shank Files (Rectangular, Round, Half Round and Triangular)  
1 x Hex. Wrench (2.5 mm)  
1 x Oiler

| Item No. | Speed<br>BPM<br> | Stroke<br>mm/inch<br> | Length<br>mm/inch<br> | Weight<br>kg/lb<br> | Air Consumption<br>LPM / CFM<br> | Air Inlet<br>inch<br> | Working Pressure<br>Bar / PSI<br> |
|----------|------------------|-----------------------|-----------------------|---------------------|----------------------------------|-----------------------|-----------------------------------|
| 82022    | 3,700            | 9 mm                  | 174 (6.9)             | 1.00 (2.2)          | 25 (0.9)                         | 1/4                   | 6.2 (90)                          |
| 89801    | 21,000           | 1 mm                  | 159 (6.3)             | 0.37 (0.8)          | 120 (4.0)                        | 1/4                   | 6.2 (90)                          |
| 89801L   | 21,000           | 1 mm                  | 211 (8.3)             | 0.40 (0.9)          | 120 (4.0)                        | 1/4                   | 6.2 (90)                          |
| 89802    | 12,000           | 5 mm                  | 159 (6.3)             | 0.37 (0.8)          | 80 (2.8)                         | 1/4                   | 6.2 (90)                          |
| 89802L   | 12,000           | 5 mm                  | 211 (8.3)             | 0.40 (0.9)          | 80 (2.8)                         | 1/4                   | 6.2 (90)                          |
| 89803    | 9,000            | 10 mm                 | 159 (6.3)             | 0.37 (0.8)          | 110 (3.9)                        | 1/4                   | 6.2 (90)                          |
| 89803L   | 9,000            | 10 mm                 | 211 (8.3)             | 0.40 (0.9)          | 110 (3.9)                        | 1/4                   | 6.2 (90)                          |