

Model Type – Pages 6-27

Pneumatic Feed and Drive

| | |
|-----------|-----------------|
| AFD205 | 0.29HP (0.22kW) |
| AFD215 | 0.29HP (0.22kW) |
| AFD415 | 0.50HP (0.38kW) |
| AFD/AFT60 | 0.70HP (0.52kW) |

Pneumatic Feed, Electric Drive

| | |
|---------|-----------------|
| AFDE200 | 0.33HP (0.25kW) |
| AFDE400 | 0.40HP (0.33kW) |
| AFDE410 | 1.00HP (0.75kW) |
| AFDE600 | 0.40HP (0.33kW) |
| AFDE610 | 1.00HP (0.75kW) |
| AFDE620 | 1.50HP (1.10kW) |
| AFDE700 | 2.00HP (1.50kW) |
| AFDE710 | 3.00HP (2.20kW) |

Electric Feed and Drive via Leadscrew

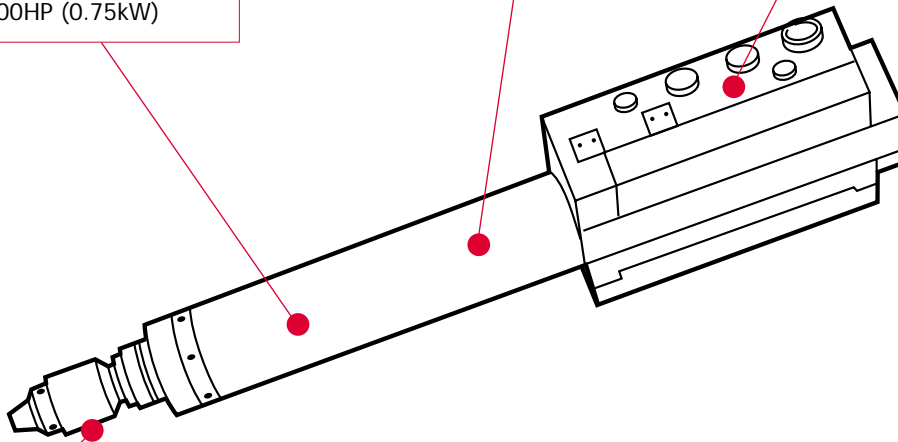
| | |
|---------|-----------------|
| AFTE270 | 0.24HP (0.18kW) |
| AFTE470 | 0.50HP (0.38kW) |
| AFTE480 | 1.00HP (0.75kW) |

No Load Speed – Pages 6-27

The free output speed of the drill or tapper with no drilling or tapping load applied.

Control Block – Page 28

- A1 – Full feature type⁽¹⁾ – Automatic cycle
- A6 – Simple type⁽¹⁾⁽²⁾ – Remote cycle control
- A7 – Leadscrew type – PNP
- A8 – Leadscrew type – NPN



Output Spindle⁽²⁾ – Pages 30/31

Output spindle to be supplied.

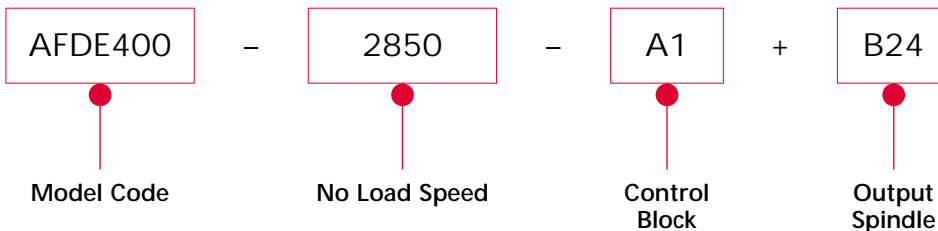
⁽¹⁾ Not required on AFTE models.

⁽²⁾ Does not apply for AFD60 and AFT60.

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FAX 1 401 679 0165

How to Order

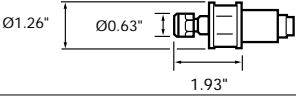
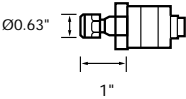
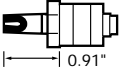



Output Spindles

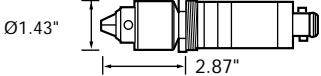
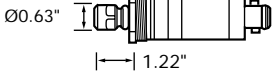
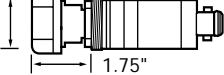


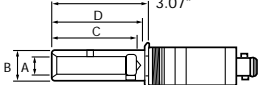
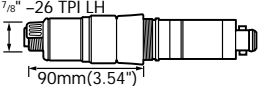

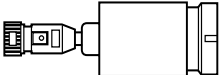


- Interchangeable modular output spindles
- Precision option for collet types, R2 and R36

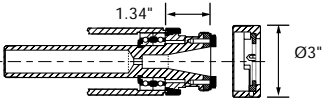
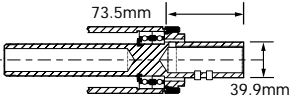
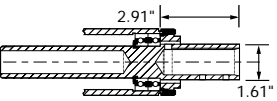
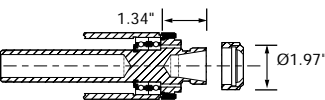
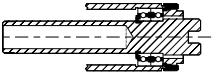
AFD205/AFD215, AFDE200, AFTE270

| | FUNCTION | ORDER CODE | FEATURES | PART NO. | RECOMMENDED SPEED RANGE |
|--|-----------------------------------|------------|--|----------|-------------------------|
|  | High Speed Output Spindle | K42 | Collet Chuck can be fitted to any AFDE200 to step up speed by 4.28 : 1. Note: Max. allowable speed 27000 rpm. See page 29 for collets. | 375263 | ≤5250 rpm |
|  | Collet Chuck | K2 | See page 31 for range of collets. | 357183 | ≤18800 rpm |
|  | No. 1 Jacobs Taper Output Spindle | K32 | No. 1 Jacobs Taper and for use with chucks or multi spindle heads | 382213 | ≤9600 rpm |
|  | Tapping Head Output Spindle | H21 | 3/16"-5/16" (4.5-8.0mm) capacity | 357193 | ≤1200 rpm |

AFD415, AFDE400/410, AFDE600/610/620, AFTE470/480

| | FUNCTION | ORDER CODE | FEATURES | PART NO. | RECOMMENDED SPEED RANGE | | | | | | | | | | | | | |
|---|---|---|---|-----------|-------------------------|--------|----|---|---|-----|-----|-----|-----|------|----|------|------|-------|
|  | 3/8" Key Adjustable Chuck Output Spindle | B1 | Part No. includes chuck key | 327723 | ≤9600 | | | | | | | | | | | | | |
|  | Integral Collet Chuck Output Spindle | B2 | Up to 0.276" (7mm) collet capacity (see page 31 for Collet Range) Standard Output Assembly | 326573 | ≤18000 | | | | | | | | | | | | | |
| | | R2 | Precision Output Assembly | 384113 | | | | | | | | | | | | | | |
|  | Large Integral Collet Chuck Output Spindle | R36 | Up to 0.63" (16mm) collet capacity (see page 31 for Collets) Precision Output Assembly | 389273 | ≤18000 | | | | | | | | | | | | | |
| | | B24 | No. 2 Jacobs Taper | A = 1.18" | | 326593 | | | | | | | | | | | | |
|  | Taper Output Spindle and for use with chucks and multi spindle heads | B32 | No. 1 Jacobs Taper | A = 0.95" | ≤9600 | | | | | | | | | | | | | |
| | | B16 | B16 Taper Output | A = 1.37" | | 368163 | | | | | | | | | | | | |
| | | B3 | Standard Output Assembly | 326563 | | | | | | | | | | | | | | |
|  | Preset Tooling DIN55058 Output Spindle | <table border="1"> <thead> <tr> <th>ØA</th> <th>ØB</th> <th>C</th> <th>D</th> </tr> <tr> <th>mm</th> <th>mm</th> <th>mm</th> <th>mm</th> </tr> </thead> <tbody> <tr> <td>16</td> <td>25</td> <td>74</td> <td>79</td> </tr> </tbody> </table> | | | | ØA | ØB | C | D | mm | mm | mm | mm | 16 | 25 | 74 | 79 | ≤5450 |
| | | ØA | ØB | C | D | | | | | | | | | | | | | |
| mm | mm | mm | mm | | | | | | | | | | | | | | | |
| 16 | 25 | 74 | 79 | | | | | | | | | | | | | | | |
| B33 | Standard Output Assembly | 356373 | | | | | | | | | | | | | | | | |
|  | Preset Tooling TMS Standard Output Spindle | <table border="1"> <thead> <tr> <th>ØA</th> <th>ØB</th> <th>C</th> <th>D</th> </tr> <tr> <th>ins</th> <th>ins</th> <th>ins</th> <th>ins</th> </tr> </thead> <tbody> <tr> <td>5/8"</td> <td>1</td> <td>2.62</td> <td>2.85</td> </tr> </tbody> </table> | | | | ØA | ØB | C | D | ins | ins | ins | ins | 5/8" | 1 | 2.62 | 2.85 | ≤5450 |
| | | ØA | ØB | C | D | | | | | | | | | | | | | |
| ins | ins | ins | ins | | | | | | | | | | | | | | | |
| 5/8" | 1 | 2.62 | 2.85 | | | | | | | | | | | | | | | |
| B33 | Standard Output Assembly | 356373 | | | | | | | | | | | | | | | | |
|  | AFD415, AFDE400 Externally Adjustable Screwdriver Head Output Spindle | B5 | 1/4" fem. hex. drive. Torque range 2.7 - 100 ins. lbs. (0.3 - 11 Nm) | 324903 | ≤2100 | | | | | | | | | | | | | |
| | | B6 | 5/16" fem. hex. drive. Torque range 2.7 - 100 ins. lbs. (0.3 - 11 Nm) | 324913 | | | | | | | | | | | | | | |
|  | AFD415, AFDE400/410 Tapping Head Output Spindle | B7 | 9/64" - 1/4" (3.5 - 6.5mm) capacity | 92362 | ≤1450 | | | | | | | | | | | | | |
| | | B8 | 3/16" - 5/16" (4.5 - 8mm) capacity | 92892 | | | | | | | | | | | | | | |
|  | AFDE600/610 Tapping Head Output Spindle | J19 | 3/16" - 3/8" (4.5 - 9.5mm) capacity For use with B24 output | 383813 | ≤1450 | | | | | | | | | | | | | |

AFDE700/710

| | FUNCTION | ORDER CODE | DESCRIPTION | PART NO. |
|--|--|------------|---|----------|
|  | Standard machine taper. Adapts to numerous standard machining heads and equipment. | T34 | ISO30 output taper, DIN 2080 | 362443 |
|  | Tooling spindles for 'automotive' preset tooling. | T3 | Preset tooling spindle to DIN 55058 Accepts tooling to DIN 6327 28m diameter, 85mm deep | 362453 |
|  | Tooling spindles for 'automotive' preset tooling. | T33 | Preset tooling spindle to T.M. Smith standard 1 1/16" diameter, 3.3" deep | 373333 |
|  | Accepts straight shank drills up to 20mm diameter (7/8") | T2 | ER32 collet output spindle (See below for collets) Maximum drill depth 1.89" | 362463 |
|  | Drive spindle for use with multi-head or angle head. | T35 | Drive adaptor for multi-heads or angle head | 373343 |

Collets

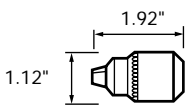
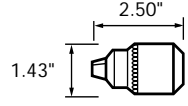
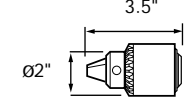
| For use with B2 (326573), R2 (384113), K2 (357183), K42 (375263) ER11 TYPE | | | | | |
|--|----------|---------------------------|----------|---------------------------|----------|
| size | part no. | size | part no. | size | part no. |
| 0.020 - 0.039 (0.5 - 1.0) | 52582 | 0.083 - 0.098 (2.1 - 2.5) | 52622 | 0.161 - 0.197 (4.1 - 5.0) | 52652 |
| 0.043 - 0.059 (1.1 - 1.5) | 52592 | 0.102 - 0.118 (2.6 - 3.0) | 52632 | 0.201 - 0.234 (5.1 - 6.0) | 52662 |
| 0.063 - 0.079 (1.6 - 2.0) | 52602 | 0.121 - 0.157 (3.1 - 4.0) | 52642 | 0.240 - 0.276 (6.1 - 7.0) | 52672 |

| For use with R36 (389273) ER25 TYPE | | | | | |
|-------------------------------------|----------|-----------------------------|----------|-----------------------------|----------|
| size | part no. | size | part no. | size | part no. |
| 0.236 - 0.276 (6.0 - 7.0) | 104942 | 0.397 - 0.433 (10.1 - 11.0) | 104982 | 0.555 - 0.591 (14.1 - 15.0) | 105032 |
| 0.279 - 0.315 (7.1 - 8.0) | 104952 | 0.437 - 0.472 (11.1 - 12.0) | 104992 | 0.594 - 0.630 (15.1 - 16.0) | 105042 |
| 0.319 - 0.354 (8.1 - 9.0) | 104962 | 0.476 - 0.512 (12.1 - 13.0) | 105002 | | |
| 0.358 - 0.394 (9.1 - 10.0) | 104972 | 0.516 - 0.551 (13.1 - 14.0) | 105022 | | |

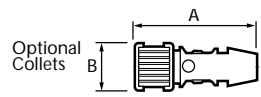

| For use with T2 (362463) ER32 TYPE | | | | | |
|------------------------------------|----------|-----------------------------|----------|-----------------------------|----------|
| size | part no. | size | part no. | size | part no. |
| 0.197 - 0.236 (5.0 - 6.0) | 105092 | 0.397 - 0.423 (10.1 - 11.0) | 105152 | 0.594 - 0.630 (15.1 - 16.0) | 105202 |
| 0.240 - 0.276 (6.1 - 7.0) | 105102 | 0.437 - 0.472 (11.1 - 12.0) | 105162 | 0.634 - 0.669 (16.1 - 17.0) | 105222 |
| 0.279 - 0.315 (7.1 - 8.0) | 105122 | 0.476 - 0.512 (12.1 - 13.0) | 105172 | 0.673 - 0.709 (17.1 - 18.0) | 105232 |
| 0.319 - 0.354 (8.1 - 9.0) | 105132 | 0.516 - 0.551 (13.1 - 14.0) | 105182 | 0.713 - 0.748 (18.1 - 19.0) | 105242 |
| 0.358 - 0.394 (9.1 - 10.0) | 105142 | 0.555 - 0.591 (14.1 - 15.0) | 105192 | 0.752 - 0.787 (19.1 - 20.0) | 105252 |

Chucks

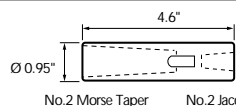
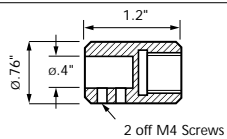
drilling chucks

| | FUNCTION | DESCRIPTION | PART NO. |
|---|---------------------------|---|----------|
| Max Drill Depth 0.59"  No. 1 Taper | 1/4" Key Adjustable Chuck | Part No. includes Chuck Key. Use with No. 1 standard Jacobs taper outputs K32 and B32 | 29492 |
| Max Drill Depth 1.34"  No. 2 Taper | 3/8" Key Adjustable Chuck | Part No. includes Chuck Key. Use with No. 2 standard Jacobs taper output B24 | 34752 |
| Max Drill Depth 2.04"  No. 2 Taper | 1/2" Key Adjustable Chuck | Part No. includes Chuck Key. Use with No. 2 standard Jacobs taper output B24 | 34332 |

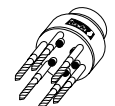
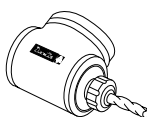
tapping chucks

| | FUNCTION | DESCRIPTION | CHUCK PART NO. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|---|---|-----|---------|-------------|-------|-------------|--|--|----|----|----|----|----|----|-------|----|-----|----|-----|---------|----------|-------|-------|----|-----|----|-----|-------|-----------|-------|-------|----|-----|----|-----|---------|----------|-------|--|
|  Optional Collets | Tapping Chucks with flexible Collet (included) | <table border="1"> <thead> <tr> <th rowspan="2">JACOBS TAPER FITTING</th> <th colspan="2">A</th> <th colspan="2">B</th> <th colspan="2">Ø TAP SHANK</th> <th rowspan="2"></th> </tr> <tr> <th>mm</th> <th>in</th> <th>mm</th> <th>in</th> <th>mm</th> <th>in</th> </tr> </thead> <tbody> <tr> <td>No. 1</td> <td>64</td> <td>2.5</td> <td>27</td> <td>1.1</td> <td>3.5-6.5</td> <td>9/64-1/4</td> <td>29462</td> </tr> <tr> <td>No. 1</td> <td>64</td> <td>2.5</td> <td>27</td> <td>1.1</td> <td>4.5-8</td> <td>3/16-5/16</td> <td>29452</td> </tr> <tr> <td>No. 2</td> <td>79</td> <td>3.1</td> <td>37</td> <td>1.5</td> <td>4.5-9.5</td> <td>3/16-3/8</td> <td>34742</td> </tr> </tbody> </table> | JACOBS TAPER FITTING | A | | B | | Ø TAP SHANK | | | mm | in | mm | in | mm | in | No. 1 | 64 | 2.5 | 27 | 1.1 | 3.5-6.5 | 9/64-1/4 | 29462 | No. 1 | 64 | 2.5 | 27 | 1.1 | 4.5-8 | 3/16-5/16 | 29452 | No. 2 | 79 | 3.1 | 37 | 1.5 | 4.5-9.5 | 3/16-3/8 | 34742 | |
| JACOBS TAPER FITTING | A | | | B | | Ø TAP SHANK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | mm | in | mm | in | mm | in | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| No. 1 | 64 | 2.5 | 27 | 1.1 | 3.5-6.5 | 9/64-1/4 | 29462 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| No. 1 | 64 | 2.5 | 27 | 1.1 | 4.5-8 | 3/16-5/16 | 29452 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| No. 2 | 79 | 3.1 | 37 | 1.5 | 4.5-9.5 | 3/16-3/8 | 34742 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  Spare or replacement Collets | Spare or replacement Collets | 5/64-3/16" (2-4.5mm) Capacity to suit 29462/29452 9/64-1/4" (3.5-6.5mm) Capacity to suit 29462/29452 3/16-5/16" (4.5-8mm) Capacity to suit 29462/29452 3/16-3/8" (4.5-9.5mm) Capacity to suit 34742 9/32-1/2" (9-12.5mm) Capacity to suit 34742 | 75142 29482 29472 36172 39242 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

drill bit/cutter adaptors

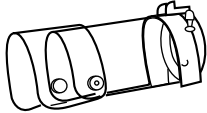
| | FUNCTION | DESCRIPTION | PART NO. |
|--|-----------------------------|--|----------|
|  No.2 Morse Taper No.2 Jacobs Taper | Morse Taper Adaptor | No. 2 Jacobs female taper to No. 2 Morse female taper | 34862 |
|  2 off M4 Screws | Ø 3/8" Shank Cutter Adaptor | Fits thread of Single Collet Chuck – Part Nos. 326573 and 384113 and Multi Heads – Part Nos. 104062, 104022, 104032, 104042, 104052, 52362, 52462, 52442, 52392, 52422 | 53232 |

multiple spindle heads

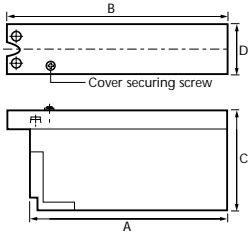
| | FUNCTION | DESCRIPTION | PART NO. |
|--|---|---|----------|
| Multi-spindle drilling/tapping heads  | Fixed and adjustable spindle multi-heads (see page 34) | When ordering state number of spindles, diameter of holes, material to be drilled and hole pattern required | - |
| Angle heads/ Offset heads  | Angle heads available to order to suit AFDE400/410/600/610/620/700/710/AFD415 | When ordering state details of application, material to be machined, size and depth to cut | - |

Guards

chuck guards

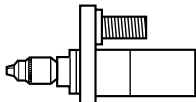
| | FEATURES | TOOL TYPES | PART NO. |
|---|---|---|-------------------------|
|  | To prevent the user inadvertently touching rotating parts | AFD205/215, AFDE200, AFTE270 AFD415, AFDE400/410, AFTE470/480 AFD60 | 66132 66122 67652 |

control head guard

| | FEATURES | TOOL TYPES | PART NO. | | | | | | | | |
|---|---|--------------|----------|---|---|------|------|------|------|--|--|
|  | Control Top Guard to enclose crosshead (supplied with AFD60 as standard) | AFD60, AFT60 | 259093 | | | | | | | | |
| | <table border="1"> <thead> <tr> <th>A</th> <th>B</th> <th>C</th> <th>D</th> </tr> </thead> <tbody> <tr> <td>8.3"</td> <td>9.3"</td> <td>4.3"</td> <td>2.2"</td> </tr> </tbody> </table> | A | B | C | D | 8.3" | 9.3" | 4.3" | 2.2" | | |
| A | B | C | D | | | | | | | | |
| 8.3" | 9.3" | 4.3" | 2.2" | | | | | | | | |

Silencers

AFD/AFT silencer

| | FEATURES | TOOL TYPES | PART NO. |
|---|---|--|-------------------------|
|  | Exhaust silencer fitted with 1/4" BSP screw-in silencer | AFD205, AFD215 AFD415 AFD60, AFT60 | 91262 70642 70652 |

Miscellaneous Accessories

AFD205/215 HCU inverting kit

| | FEATURES | TOOL TYPES | PART NO. |
|---|------------------------|--|----------|
|  | HCU Inverting Assembly | Particularly for use with AFD205 for applications with height restrictions | 381003 |

AFD205/215, AFDE200, AFTE270 sealing ring

| | FEATURES | TOOL TYPES | PART NO. |
|---|--------------|---|----------|
|  | Sealing Ring | Threaded on to nose of unit in place of protection cap. Forms seal on quill shaft to prevent ingress of swarf. | 104432 |