

Precise Air Management
Jetfoil - Tunnel Fans



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FläktWoods

Jet Fans and Accessories

Fläkt Woods is the industry leader in air movement technology, providing innovative solutions worldwide. Our extensive knowledge of design and applications is based on over 100 years of experience in tunnels, buildings, industry and original equipment manufacturers. Fläkt Woods' global coverage reaches over 100 countries and is supported by an extensive distribution network.

Our expertise in tunnel ventilation applications covers road & rail tunnels, metros, tunnel construction and wind tunnels. Fläkt Woods' products have been successfully used in underground projects throughout the world and our Jet Fan product range is unrivalled in its technology, innovation and efficiency.

Ventilation

Ventilation is required for safety and to maintain acceptable temperatures and comfort.

Pollution emitted by trains and road vehicles must be removed to provide an acceptable and safe environment. The heat from a train may need to be removed by forced ventilation in order to ensure that the temperature is acceptable to both people and equipment. In the case of a fire, smoke must be removed in order to enable safe escape and to assist access to fight the fire. The normal ventilation principles are to dilute pollution and to increase visibility by removal of particles.

In an emergency the smoke is controlled by creating sufficient air velocity to drive it away from the fire. Depending on the control strategy, the smoke can then be extracted. In rail and metro systems it is common to create a safe haven by pressurisation of the non-incident tunnel.



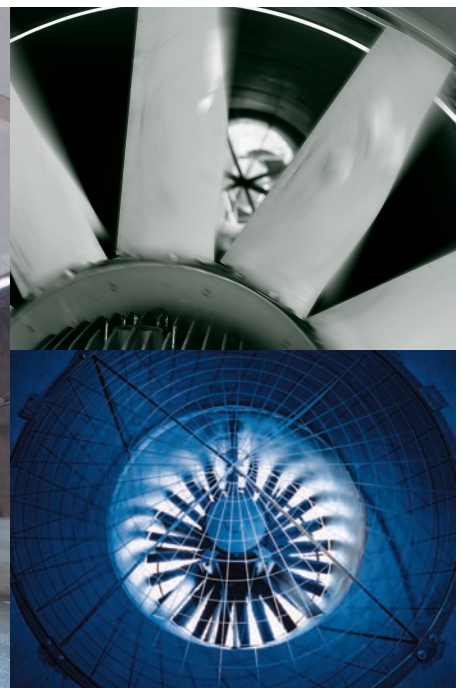
The Jetfoil Fan Range

General Information

- \varnothing 560 - \varnothing 1600 mm
- Thrust up to 3500N
- \varnothing 800 mm up to 3000 rpm, \varnothing 1250 mm up to 1800 rpm and \varnothing 1600 mm up to 1200 rpm
- Fully adjustable die cast aluminium impellers in uni-directional and truly reversible configurations; X-ray inspection
- Mild steel casing - hot dipped galvanised after manufacture, painted or all stainless steel construction
- Silencers fitted where required
- Motor protection IP55
- High thrust performance
- Emergency ventilation options up to 400°C/2 hours
- Truly reversible fans provide 100% thrust reversibility. Uni-directional fans give approximately 40% thrust for emergency use only, in the reverse mode with increased noise level.

Applications

- Longitudinal ventilation of road tunnels
- Emergency ventilation - smoke control
- Mine ventilation
- Hangar/large area ventilation



Fan Codes

112 JMTS/40/4/9/32

Fan diameter

56 = 560 mm 100 = 1000 mm
63 = 630 mm 112 = 1120 mm
71 = 710 mm 125 = 1250 mm
80 = 800 mm 140 = 1400 mm
90 = 900 mm 160 = 1600 mm

Fan type

JMTS = Truly Symmetrical Jet Fan
JMG = Uni-Directional Jet Fan

Hub diameter

20 = 200 mm 40 = 400 mm
25 = 250 mm 50 = 500 mm
31 = 315 mm 63 = 630 mm

Motor pole

2 = 2 pole
4 = 4 pole
6 = 6 pole
8 = 8 pole

No. of blades

5 = 5 blades
6 = 6 blades
9 = 9 blades
12 = 12 blades

Pitch angle in degrees

Fan Selector

Fan Selector is the selection software for all the Fläkt Woods Fan Group products: Axial Flow Fans (among which Jet Fans for Tunnels), Centrifugal fans, Boxed Fans, Roof Extract units, Plate mounted fans.

The Fan Selector allows you to choose fans which fit your required application.

How to Register, easy as 1, 2, 3!

All you need to do to register your details on-line is to follow the simple instructions shown below.

- 1) Click on the site link to start the process: <http://fanselector.flaktwoods.com/signup/>
- 2) All you need to do is to fill in the fields that have red text labels, but if you wish to complete more of the form, this would be helpful.
- 3) Once you have entered your details, just click the "Register" button at the bottom of the registration page to submit your request.

Fan Selector

User Account Set-up

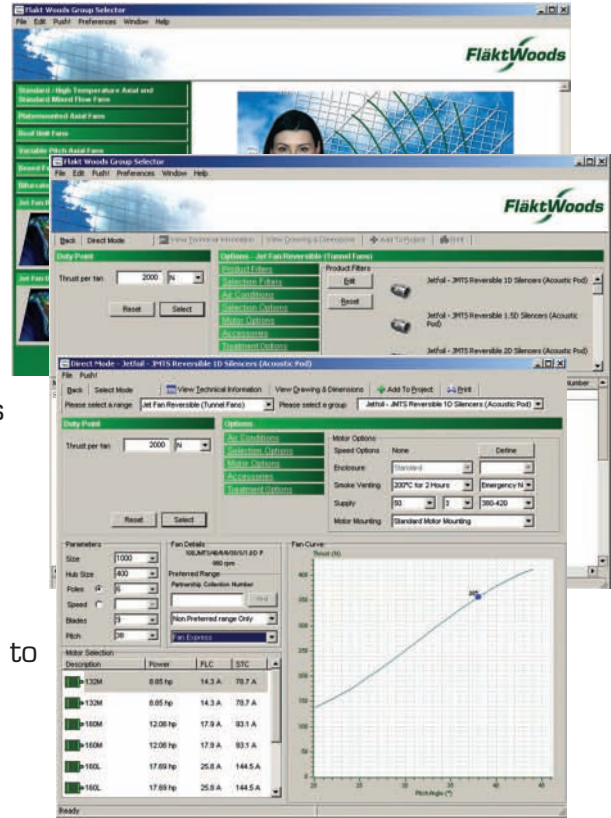
Once a user account has been created, our automatic registration system will send you an e-mail confirming your user name and password. Note: your username will be your e-mail address, so if you have a personal address this would be better than a general one (as this will allow you to personalise our software). The account set-up process normally completed between 24-48 hours after your initial password confirmation.

Desktop CD

Should you prefer to use the Desktop version of the software (which is locally installed onto your computer's hard drive), then this is available on request. All you need to do is to advise your full postal address and we would be happy to mail a CD to you.

Link to the On-Line Fan Selector: <http://fanselector.flaktwoods.com>

1. After logging in, the first screen displayed allows the selection of axial fans, identify and click 'select' to continue.
2. The next screen displays the various types of axial fans, therefore it is necessary to filter the selection by clicking 'product filter' and 'edit'.
3. The desired thrust can be input to identify suitable fans. Other filters can be adjusted so the desired fan is identified.
4. Each fan can be highlighted and technical information made available

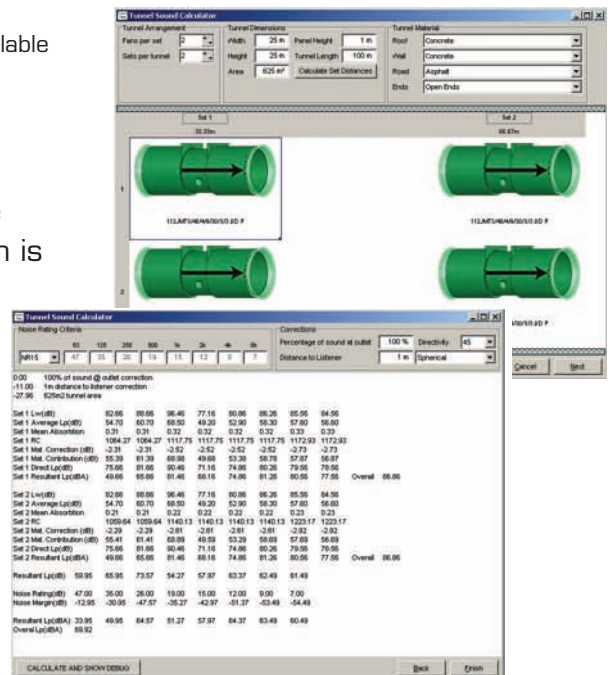


Sound Level Calculation

The Fan Selector also has the capability of calculating the installed noise levels of the jet fans. When the desired fan is selected and added to a project it is possible to access the tunnel design feature.

By inputting the tunnel arrangement, dimensions, materials and air direction and selecting the noise rating criteria on the next screen, a list of the sound levels is displayed.

Please note; this function is for guidance only and does not give any commitment on the exact acoustic parameters



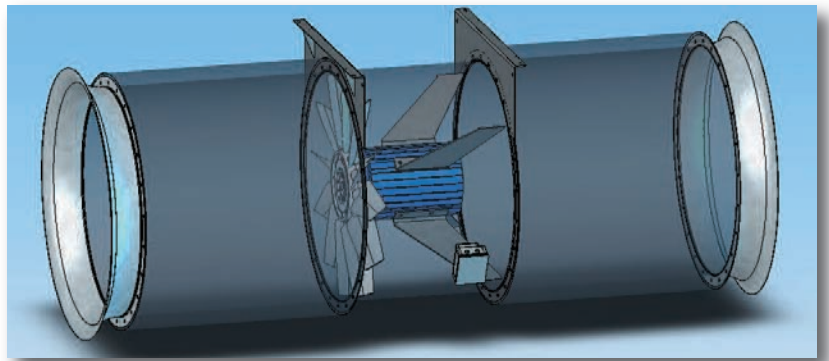
Jetfoil Standard Range

Range includes:

- 10 diameters - 560 mm to 1600 mm
- Swept back arm design for improved performance and noise reduction
- Zinc galvanised or stainless steel casing
- IP55 Motor Protection
- Low installed noise levels
- High Energy Efficiency

Options:

- Option of a silencer with or without acoustic pod
- Mounting frame to ensure secure installation
- Epoxy paint



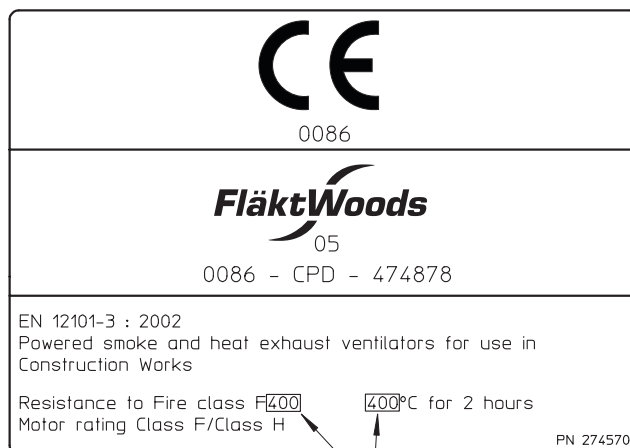
High Temperature Range

Range includes:

- 10 diameters - 560 to 1600 mm
- 300/2 or 400/2 operation
- 50 Hz or 60 Hz supply
- HT Approved and certified motors
- Additional impeller locking feature

Options:

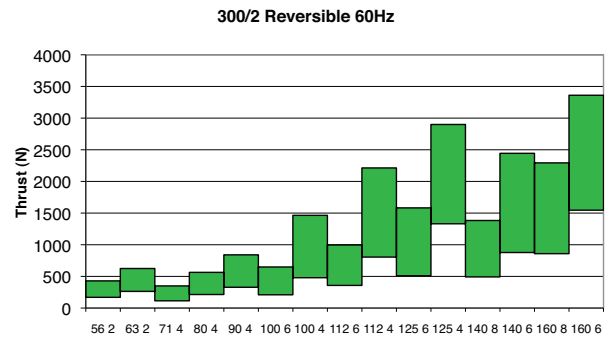
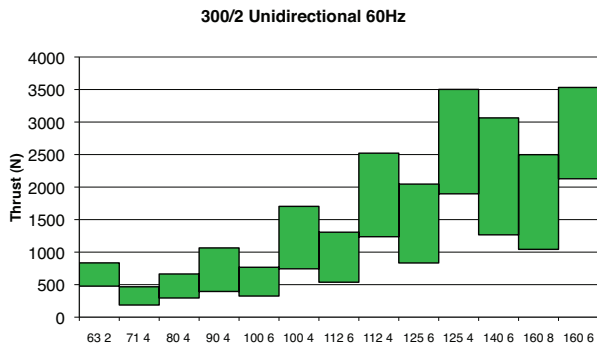
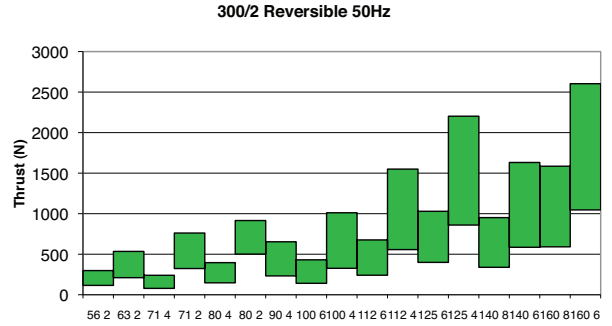
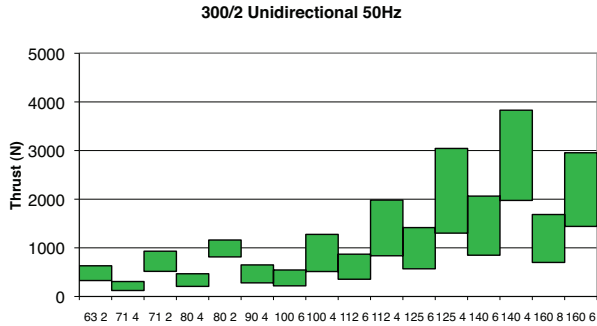
- Epoxy paint on top of galvanised finish
- Bolt-on Silencers
- Accessories



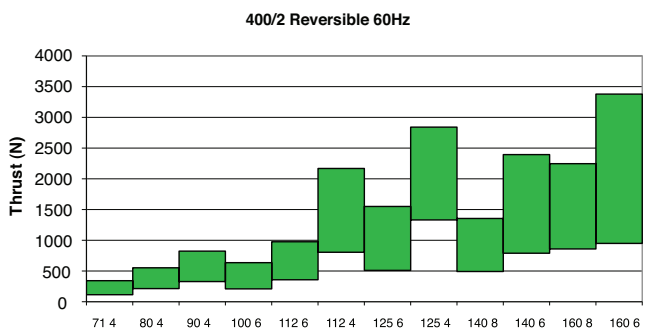
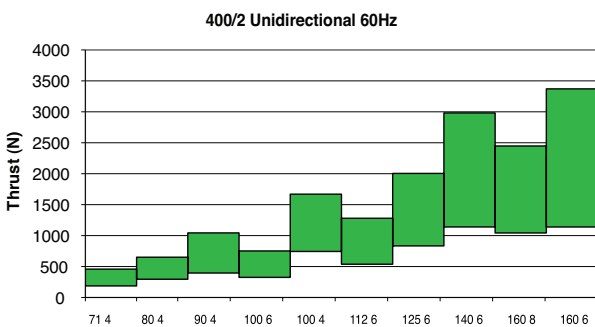
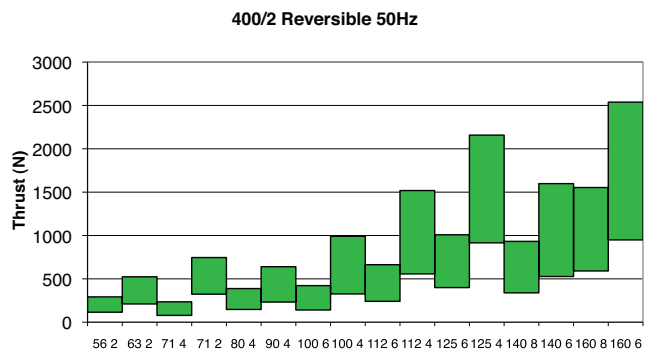
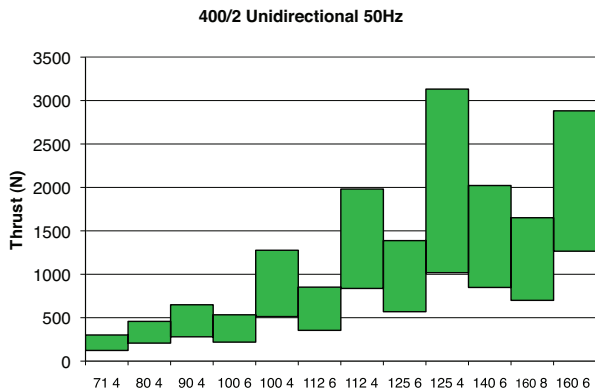
Fan label in accordance with
CE marking directive EN12101-3

Performance Range – with 1D Silencers

300/2 - Range



400/2 - Range



Higher thrust levels available, please enquire for further information

50Hz Unidirectional Range 300/2H

| Fan type | Motor Pole Speed | Blade angle | Thrust N | Outlet Velocity m/s | Absorbed Power kW | Motor Power kW | Nominal Current A | Sound power LwA | Sound Pressure in free field, 45°, 10m dB(A) |
|----------|------------------|-------------|----------|---------------------|-------------------|----------------|-------------------|-----------------|--|
| 63JMG | 2 | 20 | 324 | 29.4 | 9.2 | 11.04 | 20.2 | 104 | 73 |
| | 2 | 24 | 419 | 33.5 | 12.6 | 12.65 | 23.3 | 106 | 75 |
| | 2 | 29 | 529 | 37.6 | 17.6 | 18 | 32.6 | 97 | 66 |
| | 2 | 32 | 592 | 39.8 | 21.1 | 22.2 | 40.4 | 98 | 67 |
| | 2 | 36 | 672 | 42.4 | 26.1 | 27 | 49.8 | 99 | 68 |
| 71JMG | 2 | 22 | 575 | 34.8 | 17.8 | 18 | 32.6 | 100 | 69 |
| | 2 | 25 | 672 | 37.6 | 21.6 | 22.2 | 40.4 | 101 | 70 |
| | 2 | 28 | 772 | 40.3 | 26.5 | 27 | 49.8 | 101 | 70 |
| | 2 | 34 | 943 | 44.6 | 38.9 | 40 | 74.6 | 103 | 72 |
| 80JMG | 4 | 27 | 289 | 21.9 | 4.62 | 4.8 | 9.2 | 87 | 56 |
| | 4 | 32 | 355 | 24.3 | 6.4 | 6.6 | 12.6 | 89 | 58 |
| | 4 | 36 | 408 | 26 | 8.2 | 8.63 | 16.3 | 91 | 60 |
| | 4 | 40 | 457 | 27.5 | 9.8 | 11.04 | 21 | 93 | 62 |
| 100JMG | 4 | 26 | 661 | 26.5 | 12.7 | 13.2 | 25.4 | 97 | 66 |
| | 4 | 31 | 819 | 29.5 | 17.7 | 18 | 35 | 99 | 68 |
| | 4 | 38 | 1038 | 33.2 | 26.4 | 27 | 49.8 | 101 | 70 |
| | 4 | 40 | 1088 | 34 | 28.7 | 33 | 65 | 102 | 71 |
| 112JMG | 4 | 21 | 878 | 27.2 | 16.7 | 17.3 | 33.1 | 92 | 61 |
| | 4 | 27 | 1176 | 31.5 | 26.8 | 27 | 49.8 | 95 | 64 |
| | 4 | 31 | 1378 | 34.1 | 34.8 | 36 | 67 | 96 | 65 |
| | 4 | 34 | 1532 | 36 | 41.6 | 42.55 | 77.7 | 98 | 67 |
| | 4 | 37 | 1687 | 37.8 | 49.0 | 49.5 | 94.8 | 99 | 68 |
| | 4 | 40 | 1826 | 39.3 | 56.9 | 63.3 | 110 | 100 | 69 |
| 125JMG | 4 | 20 | 1289 | 29.6 | 33.9 | 34.5 | 63.8 | 99 | 68 |
| | 4 | 24 | 1665 | 33.6 | 46.7 | 49.5 | 94.8 | 100 | 69 |
| | 4 | 28 | 2021 | 37 | 61.2 | 63.3 | 110 | 101 | 70 |
| | 4 | 33 | 2438 | 40.7 | 82.4 | 86.3 | 154 | 103 | 72 |
| 140JMG | 6 | 26 | 1141 | 24.9 | 21.8 | 22.2 | 42.7 | 95 | 64 |
| | 6 | 33 | 1500 | 28.5 | 34.5 | 36 | 66.2 | 98 | 67 |
| | 6 | 37 | 1710 | 30.4 | 42.8 | 44.4 | 79.9 | 100 | 69 |
| | 6 | 40 | 1868 | 31.8 | 49.8 | 51.8 | 92.3 | 101 | 70 |
| 160JMG | 6 | 20 | 1253 | 22.8 | 24.7 | 26.4 | 49.7 | 98 | 67 |
| | 6 | 25 | 1606 | 25.8 | 34.6 | 36 | 66.2 | 99 | 68 |
| | 6 | 31 | 2087 | 29.4 | 51.6 | 51.8 | 92.3 | 101 | 70 |

50Hz Truly Reversible Range 300/2H

| Fan type | Motor Pole Speed | Blade angle | Thrust N | Outlet Velocity m/s | Absorbed Power kW | Motor Power kW | Nominal Current A | Sound power LwA | Sound Pressure in forward direction in free field, 45°, 10m dB(A) |
|----------|------------------|-------------|----------|---------------------|-------------------|----------------|-------------------|-----------------|---|
| 56JMTS | 2 | 22 | 133 | 21.2 | 3.3 | 3.6 | 6.93 | 94 | 63 |
| | 2 | 30 | 211 | 26.7 | 6.4 | 6.6 | 12.3 | 95 | 64 |
| | 2 | 35 | 260 | 29.7 | 8.8 | 9 | 16.4 | 97 | 66 |
| | 2 | 40 | 304 | 32.1 | 12.2 | 12.65 | 23.3 | 101 | 70 |
| 63JMTS | 2 | 20 | 177 | 21.8 | 4.4 | 4.6 | 9.3 | 93 | 62 |
| | 2 | 24 | 229 | 24.8 | 6.5 | 6.6 | 12.3 | 95 | 64 |
| | 2 | 28 | 290 | 27.8 | 8.8 | 9 | 16.4 | 96 | 65 |
| | 2 | 32 | 354 | 30.8 | 11.9 | 12.65 | 23.3 | 98 | 67 |
| | 2 | 37 | 425 | 33.7 | 17.2 | 18 | 32.6 | 99 | 68 |
| | 2 | 40 | 466 | 35.3 | 20.7 | 22.2 | 40.4 | 100 | 69 |
| 71JMTS | 2 | 20 | 320 | 25.9 | 8.1 | 8.25 | 15.5 | 100 | 69 |
| | 2 | 24 | 415 | 29.5 | 12.1 | 12.65 | 23.3 | 100 | 69 |
| | 2 | 28 | 516 | 32.9 | 17.4 | 18 | 32.6 | 101 | 70 |
| | 2 | 33 | 660 | 37.3 | 26.3 | 27 | 49.8 | 103 | 72 |
| | 2 | 35 | 698 | 38.3 | 30.9 | 33 | 58.8 | 104 | 73 |
| 80JMTS | 4 | 30 | 259 | 20.7 | 4.6 | 4.8 | 9.2 | 90 | 59 |
| | 4 | 35 | 324 | 23.2 | 6.6 | 6.6 | 12.6 | 92 | 61 |
| | 4 | 40 | 374 | 24.9 | 8.9 | 9 | 17 | 94 | 63 |
| | 4 | 44 | 395 | 25.6 | 10.8 | 11.04 | 21 | 95 | 64 |
| 90JMTS | 4 | 35 | 534 | 26.4 | 12.4 | 13.2 | 25.4 | 90 | 59 |
| | 4 | 40 | 617 | 28.4 | 17.0 | 17.3 | 33.1 | 92 | 61 |
| | 4 | 43 | 648 | 29.1 | 19.6 | 20.35 | 39.5 | 93 | 62 |
| 100JMTS | 4 | 29 | 566 | 24.5 | 12.1 | 13.2 | 25.4 | 100 | 69 |
| | 4 | 34 | 704 | 27.3 | 17.1 | 17.3 | 33.1 | 101 | 70 |
| | 4 | 39 | 896 | 30.8 | 26.1 | 27 | 49.8 | 104 | 73 |
| | 4 | 44 | 1011 | 32.8 | 31.1 | 33 | 65 | 106 | 75 |
| 112JMTS | 4 | 30 | 1023 | 29.4 | 25.4 | 27 | 49.8 | 97 | 66 |
| | 4 | 33 | 1180 | 31.6 | 32.0 | 33 | 65 | 98 | 67 |
| | 4 | 37 | 1356 | 33.9 | 42.6 | 44.4 | 79.3 | 100 | 69 |
| | 4 | 41 | 1495 | 35.6 | 53.7 | 54 | 95.1 | 102 | 71 |
| | 4 | 44 | 1551 | 36.2 | 61.2 | 63.3 | 110 | 103 | 72 |
| 125JMTS | 4 | 25 | 1074 | 27 | 26.4 | 27 | 49.8 | 101 | 70 |
| | 4 | 28 | 1300 | 29.7 | 33.9 | 34.5 | 63.8 | 102 | 71 |
| | 4 | 31 | 1546 | 32.4 | 43.9 | 44.4 | 79.3 | 104 | 73 |
| | 4 | 33 | 1715 | 34.1 | 52.1 | 54 | 95.1 | 104 | 73 |
| | 4 | 36 | 1960 | 36.5 | 65.7 | 66 | 115 | 105 | 74 |
| | 4 | 40 | 2251 | 39.1 | 83.6 | 86.3 | 154 | 107 | 76 |
| 140JMTS | 6 | 32 | 1186 | 25.3 | 25.7 | 26.4 | 49.7 | 99 | 68 |
| | 6 | 36 | 1393 | 27.5 | 34.4 | 36 | 66.2 | 100 | 69 |
| | 6 | 40 | 1555 | 29 | 44.1 | 44.4 | 79.9 | 102 | 71 |
| | 6 | 43 | 1631 | 29.7 | 50.9 | 51.8 | 92.3 | 103 | 72 |
| 160JMTS | 6 | 23 | 1234 | 22.6 | 25.3 | 26.4 | 49.7 | 100 | 69 |
| | 6 | 27 | 1571 | 25.5 | 34.7 | 36 | 66.2 | 101 | 70 |
| | 6 | 30 | 1856 | 27.7 | 43.3 | 44.4 | 79.9 | 101 | 70 |
| | 6 | 32 | 2048 | 29.1 | 50.0 | 51.8 | 92.3 | 102 | 71 |

60Hz Unidirectional Range 300/2H

| Fan type | Motor Pole Speed | Blade angle | Thrust N | Outlet Velocity m/s | Absorbed Power kW | Motor Power kW | Nominal Current A | Sound power LwA | Sound Pressure in free field, 45° , 10m dB(A) |
|----------|------------------|-------------|----------|---------------------|-------------------|----------------|-------------------|-----------------|---|
| 71JMG | 4 | 23 | 222 | 21.6 | 4.1 | 4.32 | 7.61 | 98 | 67 |
| | 4 | 30 | 307 | 25.4 | 6.6 | 6.93 | 12.9 | 99 | 68 |
| | 4 | 35 | 368 | 27.8 | 9.0 | 9.78 | 16.3 | 101 | 70 |
| | 4 | 40 | 427 | 30 | 11.5 | 12.1 | 20.2 | 105 | 74 |
| 80JMG | 4 | 25 | 378 | 25 | 6.8 | 6.93 | 12.9 | 91 | 60 |
| | 4 | 30 | 472 | 28 | 9.6 | 9.78 | 16.3 | 93 | 62 |
| | 4 | 35 | 568 | 30.7 | 13.1 | 13.8 | 22.3 | 95 | 64 |
| | 4 | 40 | 640 | 32.6 | 16.7 | 19.6 | 32.8 | 97 | 66 |
| 90JMG | 4 | 25 | 526 | 26.3 | 13.3 | 13.8 | 22.3 | 89 | 58 |
| | 4 | 29 | 644 | 29 | 18.1 | 19.6 | 32.8 | 91 | 60 |
| | 4 | 34 | 806 | 32.5 | 25.9 | 28.8 | 46.9 | 93 | 62 |
| 100JMG | 4 | 20 | 744 | 28.1 | 18.0 | 19.6 | 32.8 | 101 | 70 |
| | 4 | 25 | 1012 | 32.8 | 26.7 | 28.8 | 46.9 | 102 | 71 |
| | 4 | 31 | 1312 | 37.3 | 39.1 | 39.6 | 66.3 | 104 | 73 |
| | 4 | 37 | 1586 | 41 | 53.9 | 58.3 | 96.7 | 106 | 75 |
| 112JMG | 4 | 20 | 1237 | 32.3 | 27.4 | 28.8 | 46.9 | 96 | 65 |
| | 4 | 25 | 1606 | 36.9 | 41.7 | 43.2 | 68.8 | 98 | 67 |
| | 4 | 31 | 2039 | 41.5 | 62.6 | 63.6 | 97 | 101 | 70 |
| | 4 | 34 | 2207 | 43.2 | 74.8 | 75.6 | 115 | 102 | 71 |
| | 4 | 39 | 2580 | 46.7 | 97.5 | 97.8 | 150 | 104 | 73 |
| 125JMG | 6 | 26 | 974 | 25.7 | 19.4 | 20.4 | 32 | 95 | 64 |
| | 6 | 32 | 1256 | 29.2 | 28.9 | 30 | 50 | 98 | 67 |
| | 6 | 39 | 1565 | 32.6 | 42.2 | 43.2 | 68.1 | 100 | 69 |
| 125JMG | 4 | 20 | 1897 | 35.9 | 59.6 | 63.6 | 97 | 103 | 72 |
| | 4 | 22 | 2176 | 38.4 | 70.6 | 72.5 | 110 | 104 | 73 |
| | 4 | 26 | 2714 | 42.9 | 94.4 | 97.8 | 150 | 105 | 74 |
| 140JMG | 6 | 20 | 1266 | 26.2 | 24.3 | 25.2 | 41.6 | 97 | 66 |
| | 6 | 27 | 1796 | 31.2 | 42.7 | 43.2 | 68.1 | 100 | 69 |
| | 6 | 29 | 1950 | 32.5 | 48.8 | 50.4 | 79.3 | 101 | 70 |
| | 6 | 32 | 2184 | 34.4 | 58.9 | 61 | 94.9 | 102 | 71 |
| 160JMG | 6 | 21 | 1967 | 28.6 | 47.5 | 50.4 | 79.3 | 103 | 72 |
| | 6 | 24 | 2284 | 30.8 | 58.0 | 61 | 94.9 | 104 | 73 |

60Hz Truly Reversible Range 300/2H

| Fan type | Motor Pole Speed | Blade angle | Thrust N | Outlet Velocity m/s | Absorbed Power kW | Motor Power kW | Nominal Current A | Sound power LwA | Sound Pressure in forward direction in free field, 45°, 10m dB(A) |
|----------|------------------|-------------|----------|---------------------|-------------------|----------------|-------------------|-----------------|---|
| 56JMTS | 2 | 21 | 182 | 24.8 | 5.5 | 5.52 | 9.66 | 98 | 67 |
| | 2 | 24 | 225 | 27.6 | 7.2 | 7.25 | 11.6 | 98 | 67 |
| | 2 | 27 | 269 | 30.2 | 9.2 | 9.35 | 15.4 | 98 | 67 |
| | 2 | 30 | 310 | 32.4 | 11.5 | 12.6 | 20 | 99 | 68 |
| | 2 | 33 | 354 | 34.6 | 13.9 | 14.4 | 23 | 100 | 69 |
| | 2 | 40 | 398 | 36.7 | 21.9 | 25.2 | 39.4 | 105 | 74 |
| 63JMTS | 2 | 25 | 362 | 31.1 | 12.5 | 12.6 | 20 | 99 | 68 |
| | 2 | 27 | 402 | 32.8 | 14.6 | 15 | 23.9 | 100 | 69 |
| | 2 | 31 | 495 | 36.4 | 19.8 | 20.4 | 32.2 | 102 | 71 |
| | 2 | 35 | 588 | 39.6 | 26.7 | 27.5 | 44.6 | 103 | 72 |
| | 2 | 40 | 656 | 41.9 | 36.9 | 39.6 | 61.8 | 104 | 73 |
| 71JMTS | 4 | 30 | 207 | 20.9 | 4.3 | 4.32 | 7.61 | 90 | 59 |
| | 4 | 33 | 239 | 22.4 | 5.5 | 5.76 | 9.75 | 91 | 60 |
| | 4 | 36 | 271 | 23.9 | 6.9 | 7.56 | 12.7 | 93 | 62 |
| 80JMTS | 4 | 25 | 285 | 21.7 | 5.6 | 5.76 | 9.75 | 93 | 62 |
| | 4 | 32 | 419 | 26.4 | 9.4 | 9.78 | 16.3 | 94 | 63 |
| | 4 | 37 | 508 | 29 | 13.1 | 13.8 | 22.3 | 97 | 66 |
| | 4 | 44 | 564 | 30.6 | 19.0 | 19.6 | 32.8 | 99 | 68 |
| 90JMTS | 4 | 27 | 489 | 25.3 | 11.8 | 12.1 | 20.2 | 91 | 60 |
| | 4 | 30 | 578 | 27.5 | 14.9 | 15 | 25.6 | 92 | 61 |
| | 4 | 33 | 667 | 29.6 | 18.9 | 19.60 | 32.8 | 94 | 63 |
| | 4 | 39 | 818 | 32.7 | 28.4 | 28.8 | 46.9 | 96 | 65 |
| | 4 | 44 | 885 | 34.1 | 36.0 | 39.6 | 66.3 | 98 | 67 |
| 100JMTS | 4 | 28 | 792 | 29 | 19.8 | 20.4 | 34.4 | 104 | 73 |
| | 4 | 32 | 993 | 32.5 | 28.0 | 28.8 | 46.9 | 105 | 74 |
| | 4 | 37 | 1242 | 36.3 | 41.1 | 41.4 | 65.6 | 107 | 76 |
| | 4 | 40 | 1332 | 37.6 | 49.3 | 50.4 | 77.9 | 108 | 77 |
| | 4 | 44 | 1501 | 39.9 | 55.2 | 58.3 | 96.7 | 110 | 79 |
| 112 JMTS | 6 | 28 | 1241 | 32.4 | 40.2 | 41.4 | 65.6 | 107 | 76 |
| | 6 | 31 | 1438 | 34.9 | 49.4 | 50.4 | 77.9 | 108 | 77 |
| | 6 | 35 | 1693 | 37.8 | 63.2 | 63.6 | 97 | 109 | 78 |
| | 6 | 37 | 1813 | 39.2 | 71.7 | 72.5 | 110 | 110 | 79 |
| | 6 | 40 | 1980 | 40.9 | 87.8 | 97.8 | 150 | 112 | 81 |
| 125JMTS | 6 | 28 | 936 | 25.2 | 19.4 | 20.4 | 32 | 97 | 66 |
| | 6 | 31 | 1083 | 27.1 | 24.2 | 25.2 | 41.6 | 98 | 67 |
| | 6 | 34 | 1227 | 28.9 | 29.6 | 30 | 50 | 100 | 69 |
| | 6 | 40 | 1466 | 31.6 | 41.8 | 43.2 | 68.1 | 102 | 71 |
| | 6 | 44 | 1544 | 32.4 | 50.0 | 50.4 | 79.3 | 103 | 72 |
| 140JMTS | 6 | 26 | 1293 | 26.5 | 29.2 | 30 | 50 | 101 | 70 |
| | 6 | 30 | 1627 | 29.7 | 40.2 | 43.2 | 68.1 | 102 | 71 |
| | 6 | 35 | 2034 | 33.2 | 58.8 | 61 | 94.9 | 104 | 73 |
| 160JMTS | 6 | 22 | 1736 | 26.8 | 41.5 | 43.2 | 68.1 | 104 | 73 |
| | 6 | 24 | 1957 | 28.5 | 49.4 | 50.4 | 79.3 | 105 | 74 |
| | 6 | 26 | 2209 | 30.3 | 57.8 | 61 | 94.9 | 105 | 74 |

HT Certification

Emergency, High Temperature, Smoke Extract Fans fall within the scope of the EU Construction Products Directive.

The implementation of the Construction Products Directive and the publication of the product specific standard, EN 12101-3 have made it a mandatory requirement for smoke control fans sold into the European Union to carry a CE Mark from April 1st, 2005. The CE mark may only be affixed after successful completion of testing, auditing of factory production control and the issue of a certificate by accredited independent authorities.

This procedure is intended to prevent fan failures during an emergency smoke situation, where a fan failure can ultimately lead to the loss of life. Fläkt Woods fully endorse the concept that, in such a safety critical application, only fully verified and certified products should be specified. This made the decision to test and certify this core product range all the more easier.

The decision was made to embark on a major testing programme in conjunction with BSRIA, a leading authority in building research. Using the expertise of Fläkt Woods and BSRIA's new state of the art High Temperature test rig, the Jet Fan range was successfully tested in compliance with this demanding new legislation with minimum complications.

This investment resulted in Fläkt Woods being able to offer a British Standards Institution Certified, CE marked Jet Fan product for use at 400°C/2 hours from 560mm to 1600mm, together with a comprehensive range of approved accessories.

Fläkt Woods have enhanced their position as the foremost provider of specialist products for emergency high temperature smoke control by becoming the first fan manufacturer in the world to be able to apply CE marking to these safety critical products.



CE marking was then obtained from BSI for the JM HT fan range for additional 200°C and 300°C temperature categories, ensuring that Fläkt Woods has one of the most comprehensive range of products available in the Single European Market.

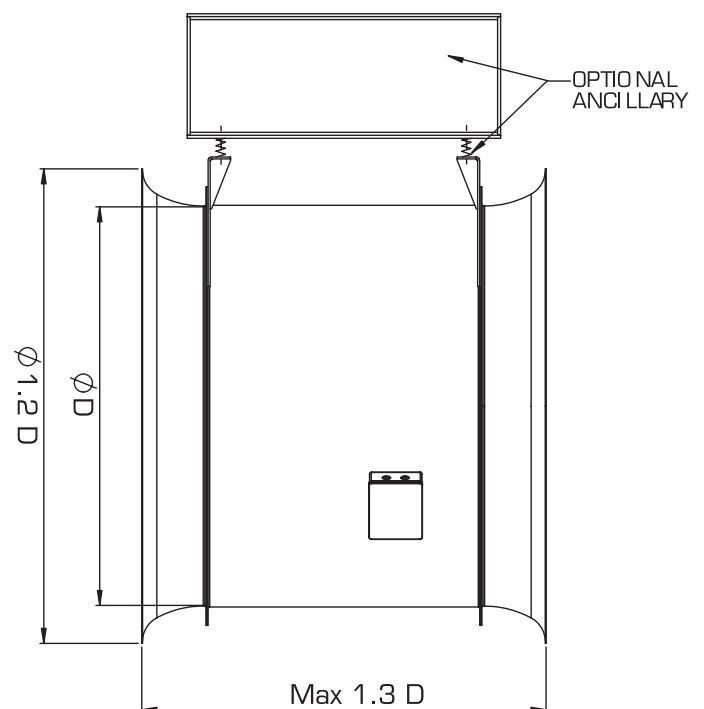
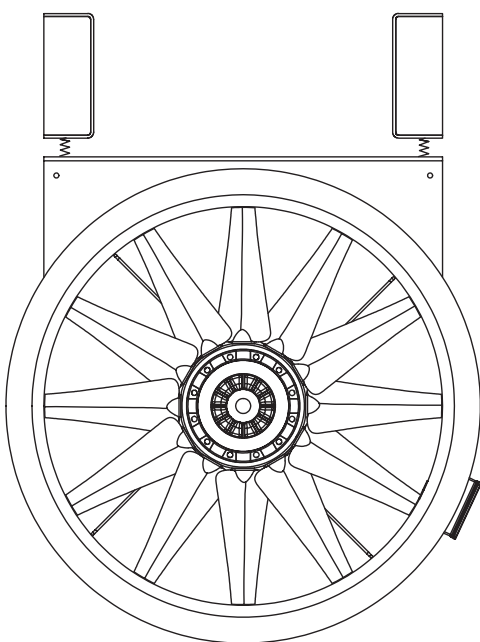
Other Accessories

| | | | |
|-------------------------|---|-----------------------------------|---|
| Jet Fan Silencer |  | Acoustic pod |  |
| Mounting feet |  | Guards |  |
| Bellmouth Inlet |  | Spring Vibration Isolators |  |

Outline Drawings

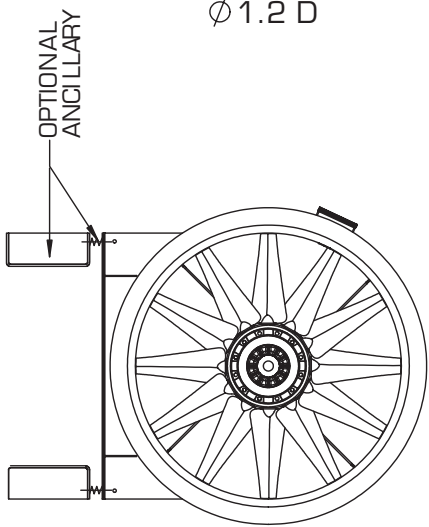
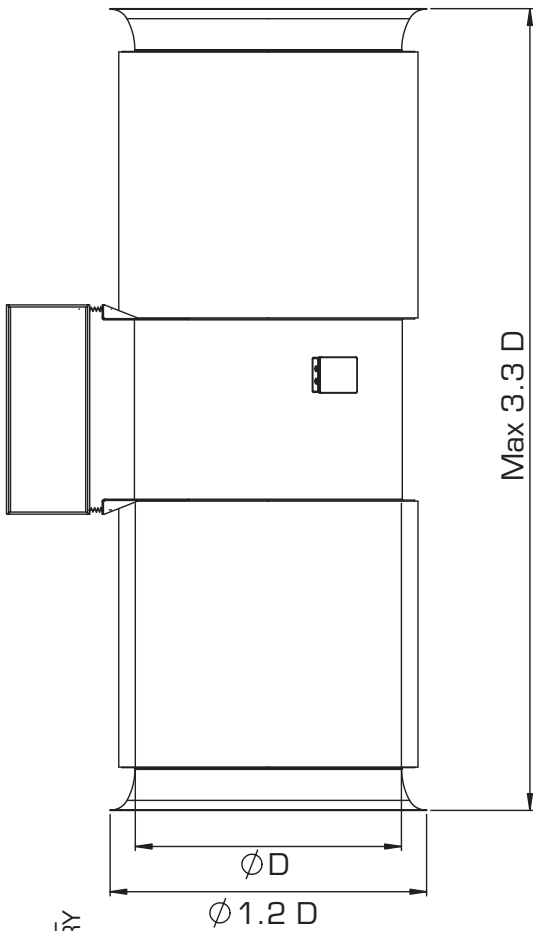
It is recommended that a Fläkt Woods frame accompany the jet fan to ensure a secure installation. Anti-vibration mounts are available for soft mounting installations.

Base Fan - No Silencers

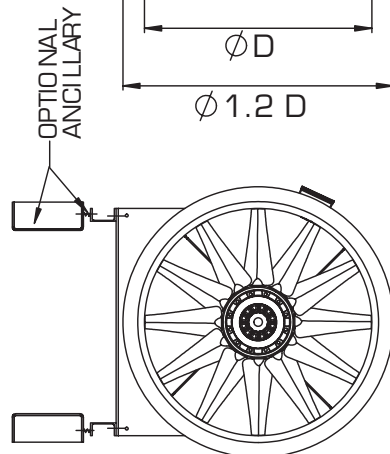
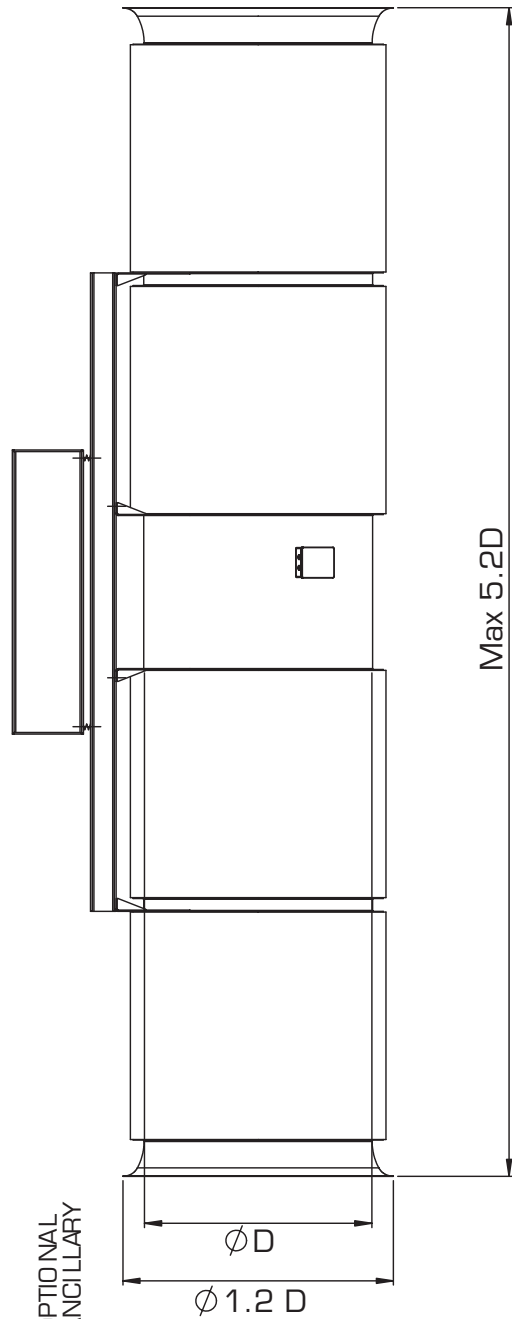


Outline Drawings

Jet Fan with 1D Silencers



Jet Fan with 2D Silencers



Sample Project Tunnel & Metro Reference List

| Road Country | Project | | |
|---------------------|--------------------------------|-------------------|--------------------------------|
| Algeria | Algerian Road Tunnel | UK | Limehouse Link |
| Australia | Mitcham Frankston Freeway | UK | Terminal 5 - Coach Station |
| Australia | M5 East Tunnel | UK | T5 - Taxi Bridge |
| Australia | Lane Cove | UK | Blackwall Tunnel |
| Austria | Wske Tunnel | UK | New Tyne Crossing |
| Belgium | Gare De Namur | Yemen | Sayhut-Nishtun Road Project |
| China | Hu Rong Su Tunnel | | |
| China | Chong Qin Fang Dou Shan | Rail/Metro | Country |
| China | Sky Pier (Tunnel 1) | Australia | Parramatta Rail Link |
| China | Hu Nan Jia Hou Yan | Austria | U3 Station Erdberg |
| China | Hu Nan Xue Feng Shan Tunnel | Austria | U2/1 Schottenring |
| Croatia | Tunnel Trsat | Austria | River City |
| Croatia | Tunnel Skurinje | Austria | U1 Unterwerk |
| Croatia | Sveti Rok 2 | Austria | U2 Messe |
| Croatia | Mala Kapela | Austria | U4 Schottenring |
| Croatia | Veliki Glozac | Austria | Vienna Metro - Gross |
| Croatia | Tunnel Bisko | Austria | Vienna Metro - Leoup |
| Croatia | Tunnel Mravince | Brazil | Sao Paulo Metro Line 4 |
| Croatia | Tunnel Strazina | Canada | TTC Shepherd |
| Croatia | Cardak | Canada | TTC Petrofit |
| Croatia | Brezovica | Canada | Montreal STCUM |
| Croatia | Sveta Tri Krajlja | China | Guangzhou Metro |
| Croatia | Mala Kapela | Denmark | Copenhagen Metro |
| Dubai | Dubai International Airport | Dubai | Dubai Light Railway |
| Finland | Kehu Project | Greece | Attiko Metro - Elliniko Ext. |
| Finland | Hakamaentie/Kivihaka Tunnel | Greece | Egnatio Odos Driscos Tunnel |
| Finland | Vuoli Tunnel | Greece | Attiko Metro, Athens |
| Greece | Egnatia Odos-Panagia-Grevena | Hong Kong | TKO South Hong Kong |
| Greece | Eftaxias | Hong Kong | Beacon Hill Tunnel |
| Hong Kong | Route 8 | Hong Kong | Lok Ma Chau |
| Hong Kong | Sky Plaza | Hong Kong | Penny's Bay Line |
| Hong Kong | Lantau Airport & Railway | Hungary | Budapest Metro Line 2 |
| India | DAMEL | Hungary | Budapest Metro Line 4 |
| India | C Doctor | India | Delhi Metro Phase II |
| Italy | Seiano Tunnel | India | Delhi Metro |
| Italy | Montenegrone Project | India | DMRC Phase 1 (Mc1b) |
| Italy | Martignano | Iran | Mashhad Metro |
| Italy | Gran Sasso | Italy | Passante Ferroviario Di Torino |
| Italy | Mongrando Tunnel | Italy | Torino Di Bologna |
| Italy | Gra Salva Candida | Italy | Nodo Di Bologna |
| Italy | Cesena Tunnel | Italy | Passante Ferroviario |
| Italy | Valsassina Tunnel | Italy | Turin Metro |
| Italy | Spezia | Italy | Turin Metro Lot 6c Project |
| Italy | Lonato Tunnel | Italy | Rome Rail Station |
| Italy | Ronco Tunnel | Italy | Avigliana |
| Italy | Val Badia Tunnel | Italy | Alifana Metro |
| Italy | Marinasco Tunnel | Italy | Milan Metro |
| Malaysia | SMART | New Zealand | Britomart Project |
| New Zealand | JHT New Zealand | New Zealand | Otira Rail Tunnel |
| Norway | E18 - Bjorvika Tunneln | Portugal | Lisbon Metro |
| Norway | Norway Road Tunnel | Romania | Bucharest Metro |
| Norway | Mesta As | Singapore | CCL2 |
| Poland | Rondo Tunnel | Singapore | CCL3 |
| Portugal | Tunnel Do Rossio | Singapore | CCL4 |
| Puerto Rico | Tven Urbana | Singapore | CCL5 |
| Qatar | New Doha International Airport | Singapore | KPE Expressway |
| Qatar | NDIA Free Trade Zone | Singapore | North East Line |
| Saudi Arabia | Jamarat Bridge Phase II | Taiwan | Nankang Extension Project |
| Saudi Arabia | Jamarat Bridge Basement | Taiwan | KMRT |
| Saudi Arabia | King Khalid Road Tunnel | Turkey | Adana Metro |
| Serbia | Vrmac Tunnel | UK | Bank Station |
| Singapore | Singapore Metro Link | UK | Channel Tunnel Rail Link |
| Sweden | Arlandabanan, Stockholm | UK | Cooling the Tube |
| Switzerland | Biasca Tunnel | UK | Docklands Light Railway |
| Taiwan | Pinglin | UK | Jubilee Line Extension |
| UK | A3 Hindhead Tunnel | UK | Liverpool Street Station |
| UK | Bell Common Tunnel | UK | T5 Track Transit |
| UK | Holmesdale Tunnel | UK | Woolwich Arsenal Extension |
| | | Venezuela | Valencia Metro |