

# Swellex

Product catalogue









# Rock reinforcement from Epiroc

For more than 35 years, Epiroc has and continues to improve the safety, productivity and profitability of underground operations.

Our commitment to quality performance and reliability sets us apart.

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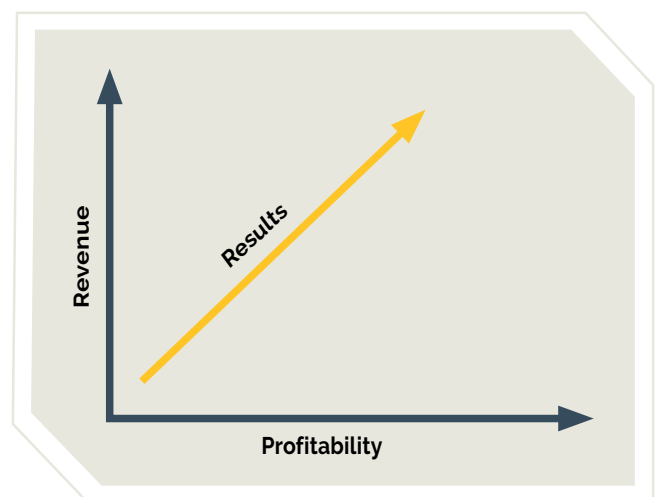
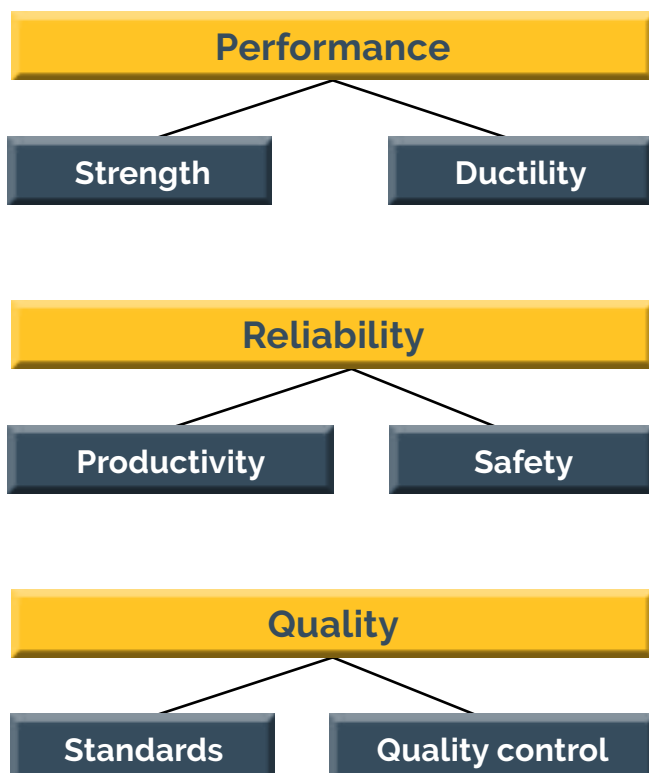
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# Our offer

## – Epiroc rock reinforcement system



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sales representative.



# Our commitment

## – Epiroc rock reinforcement system

### Best reliability for productivity

- Testing standards that are representative of product usage.
- Manufacturing process, steel selection and quality control that assures consistent performance and meets or exceeds our specifications during installation and product usage.
- Same quality assurance across the complete Swellex solution portfolio, bolts, tools, accessories and pumps.

### Swellex rock bolting systems

The Swellex rock bolt is a sealed steel tube folded on itself and expanded with high water pressure offering:

- Strong performance and interaction with rock mass.
- Assurance of perfect installation for every bolt.
- Increase in speed of installation vs other bolt types.

### Extensive application range

The speed and quality of installation and the extensive application range have solved support problems and increased profitability for contractors and mine operators all over the world.

### Special application products

Epiroc offers a wide portfolio of solutions for special applications. We have solutions for corrosive environments,

Long support requirements, higher performance in load or sheer capacity, support with hanging capacity, special plates, pumps and monitoring system that fit available equipment and source of power.

We look forward to listening to your specific needs and customizing our solutions. With the same goal, to increase safety and productivity in your underground operations.

# Swellex rock bolts

| Swellex load capacity |                                              |                                              |                             |                       |                         |                             |                                 |                   |                         |                          |
|-----------------------|----------------------------------------------|----------------------------------------------|-----------------------------|-----------------------|-------------------------|-----------------------------|---------------------------------|-------------------|-------------------------|--------------------------|
|                       | Description                                  |                                              |                             |                       |                         |                             |                                 |                   |                         |                          |
|                       | Minimum breaking load, expanded profile (kN) | Minimum yielding load, expanded profile (kN) | Minimum elongation "A5" (%) | Profile diameter (mm) | Material thickness (mm) | Original tube diameter (mm) | Injection bushing diameter (mm) | Bushing head (mm) | Bore hole diameter (mm) | Expansion pressure (bar) |
| Pm12                  | 110                                          | 90                                           | 10                          | 28                    | 2                       | 41                          | 28                              | 30/37             | 32-39                   | 300                      |
| Pm16                  | 160                                          | 140                                          | 10                          | 36.5                  | 2                       | 54                          | 38                              | 41/50             | 43-52                   | 240                      |
| Pm24                  | 240                                          | 200                                          | 10                          | 37                    | 3                       | 54                          | 38                              | 41/50             | 43-52                   | 300                      |
| Pm24C                 | 240                                          | 200                                          | 10                          | 37                    | 3                       | 54                          | 38                              | 41/53             | 48-52                   | 300                      |
| Pm24H*                | 200                                          | 190                                          | 10                          | 37                    | 3                       | 54                          | 38                              |                   | 43-52                   | 300                      |
| Mn12                  | 110                                          | 90                                           | 20                          | 28                    | 2                       | 41                          | 28                              | 30/37             | 32-39                   | 300                      |
| Mn16                  | 150                                          | 100                                          | 20                          | 36                    | 2                       | 54                          | 38                              | 41/48             | 43-52                   | 240                      |
| Mn24                  | 220                                          | 180                                          | 20                          | 37                    | 3                       | 54                          | 38                              | 41/50             | 43-52                   | 300                      |

Bolts also available in PlastiCoated.  
 \* If borehole diameter <51 collaring of 51mm is required to allow insertion of bushing head in rock mass.

## "ASTM" colour/length chart

| Color plug        | Bolt Length          |
|-------------------|----------------------|
| Red               | 1.5m / 5ft           |
| Dark Blue         | 1.8m / 6ft           |
| Orange            | 2.1m / 7ft           |
| White             | 2.4m / 8ft           |
| Fluorescent Green | 2.7m / 9ft           |
| Safety yellow     | 3.0-3.3m/10ft-11ft   |
| Dark green        | 3.6 -4.0m / 12-13 ft |
| Brown             | 4.5m /14-15ft        |
| Uncolored         | 5m / 16-17ft         |
| Light blue        | 5.5m / 18-19 ft      |
| Black             | 6m / 20-21 ft        |
| Pink              | 7m / 22-23 ft        |



# Swellex PM12

## Swellex rock bolts

| General information Swellex Pm12 |         |
|----------------------------------|---------|
| Minimum breaking load            | 110 kN  |
| Minimum yielding load            | 90 kN   |
| Minimum elongation               | 10%     |
| Expansion pressure               | 300 bar |

For further information, see also technical data page 7.  
Minimum elongation "A": According to EN-ISO 6892-1 where applicable.



## Swellex Pm12 rock bolts

| Size           | Length (m) | Weight (kg) | Product number incl. color plug |
|----------------|------------|-------------|---------------------------------|
| SWX Pm12       | 1.2        | 3.0         | 9899 7080 49                    |
|                | 1.5        | 3.3         | 9899 7027 09                    |
|                | 1.8        | 3.6         | 9899 7032 44                    |
|                | 2.1        | 4.2         | 9899 7080 50                    |
|                | 2.4        | 4.9         | 9899 7032 45                    |
|                | 2.7        | 5.5         | 9899 7080 51                    |
|                | 3.0        | 6.1         | 9899 7032 46                    |
|                | 3.3        | 6.6         | 9899 7080 52                    |
|                | 3.6        | 7.3         | 9899 7032 47                    |
|                | 3.8        | 7.8         | 9899 7080 53                    |
|                | 3.9        | 7.8         | 9899 7080 54                    |
|                | 4.0        | 8.0         | 9899 7080 55                    |
|                | 4.5        | 9.0         | 9899 7080 56                    |
|                | 5.0        | 10.0        | 9899 7080 57                    |
|                | 6.0        | 11.9        | 9899 7080 58                    |
|                | 6.5        | 12.9        | 9899 7080 59                    |
| Plastic Coated |            |             |                                 |
| SWX Pm12       | 1.2        | 2.5         | 9899 7087 01                    |
|                | 1.5        | 3.3         | 9899 7084 80                    |
|                | 1.8        | 3.8         | 9899 7087 02                    |
|                | 2.1        | 4.4         | 9899 7087 03                    |
|                | 2.4        | 5.0         | 9899 7084 69                    |
|                | 2.7        | 6.2         | 9899 7087 04                    |
|                | 3.0        | 6.6         | 9899 7087 05                    |
|                | 3.3        | 7.2         | 9899 7087 06                    |
|                | 3.6        | 7.6         | 9899 7087 07                    |
|                | 3.8        | 8.2         | 9899 7087 08                    |
|                | 3.9        | 8.9         | 9899 7087 09                    |
|                | 4.0        | 10.2        | 9899 7087 10                    |
|                | 4.5        | 11.9        | 9899 7087 11                    |
|                | 5.0        | 12.9        | 9899 7087 12                    |
|                | 6.0        |             | 9899 7087 13                    |
|                | 6.5        |             | 9899 7087 14                    |

Custom lengths available upon request. Cone intalled bolts available upon request.  
Refer to colour chart 7.



# Swellex PM16

## Swellex rock bolts

| General information Swellex Pm16 |         |
|----------------------------------|---------|
| Minimum breaking load            | 160 kN  |
| Minimum yielding load            | 140 kN  |
| Minimum elongation               | 10%     |
| Expansion pressure               | 240 bar |

For further information, see also technical data page 7.

Minimum elongation \*A\*: According to EN-ISO 6892-1 where applicable.



## Swellex Pm16 rock bolts

| Size           | Length (m) | Weight (kg) | Product number incl. color plug |
|----------------|------------|-------------|---------------------------------|
| SWX Pm16       | 1.5        | 4.2         | 9899 7083 02                    |
|                | 1.8        | 5.1         | 9899 7083 03                    |
|                | 2.1        | 5.8         | 9899 7083 04                    |
|                | 2.4        | 6.6         | 9899 7083 05                    |
|                | 2.7        | 7.4         | 9899 7083 06                    |
|                | 3.0        | 8.2         | 9899 7083 07                    |
|                | 3.3        | 8.9         | 9899 7083 08                    |
|                | 3.6        | 9.7         | 9899 7083 09                    |
|                | 4.0        | 10.7        | 9899 7083 10                    |
|                | 4.5        | 12.0        | 9899 7083 11                    |
|                | 5.0        | 13.3        | 9899 7083 12                    |
|                | 6.0        | 15.9        | 9899 7083 13                    |
|                | 6.5        | 17.2        | 9899 7083 14                    |
| Plastic Coated |            |             |                                 |
| SWX Pm16       | 1.8        | 5.1         | 9899 7083 17                    |
|                | 2.4        | 6.6         | 9899 7083 19                    |
|                | 2.7        | 7.4         | 9899 7083 20                    |
|                | 3.6        | 10.7        | 9899 7083 23                    |

Custom lengths available upon request. Cone intalled bolts available upon request. Refer to colour chart 7.

# Swellex PM24



## Swellex rock bolts

| General information Swellex Pm24 |         |
|----------------------------------|---------|
| Minimum breaking load            | 240 kN  |
| Minimum yielding load            | 200 kN  |
| Minimum elongation               | 10%     |
| Expansion pressure               | 300 bar |

For further information, see also technical data page 7.  
Minimum elongation "A": According to EN-ISO 6892-1 where applicable.

## Swellex Pm24 rock bolts

| Size           | Length (m) | Weight (kg) | Product number incl. color plug |
|----------------|------------|-------------|---------------------------------|
| SWX Pm24       | 1.8        | 7.2         | 9899 7080 82                    |
|                | 2.1        | 8.3         | 9899 7080 83                    |
|                | 2.4        | 9.5         | 9899 7032 50                    |
|                | 2.7        | 10.6        | 9899 7080 84                    |
|                | 3.0        | 11.8        | 9899 7080 85                    |
|                | 3.3        | 12.9        | 9899 7080 86                    |
|                | 3.6        | 14.0        | 9899 7080 87                    |
|                | 3.9        | 15.2        | 9899 7080 88                    |
|                | 4.0        | 15.6        | 9899 7080 89                    |
|                | 4.5        | 17.4        | 9899 7080 90                    |
|                | 4.9        | 18.9        | 9899 7080 91                    |
|                | 5.0        | 19.3        | 9899 7080 92                    |
|                | 6.0        | 23.1        | 9899 7080 94                    |
|                | 6.5        | 25.0        | 9899 7080 95                    |
|                | 7.0        | 26.9        | 9899 7080 96                    |
| Plastic Coated |            |             |                                 |
| SWX Pm24       | 1.8        | 7.2         | 9899 7082 03                    |
|                | 2.4        | 9.5         | 9899 7080 76                    |
|                | 3.0        | 11.8        | 9899 7082 06                    |
|                | 3.6        | 14.0        | 9899 7082 08                    |

Custom lengths available upon request. Cone intalled bolts available upon request.  
Refer to colour chart 7.

# Swellex PM24C

## Swellex connectable rock bolts

| General information Swellex Pm24 connectables |         |
|-----------------------------------------------|---------|
| Minimum breaking load                         | 240 kN  |
| Minimum yielding load                         | 200 kN  |
| Minimum elongation                            | 10%     |
| Expansion pressure                            | 300 bar |

For further information, see also technical data page 7.  
Minimum elongation 'A': According to EN-ISO 6892-1 where applicable.



## Swellex Pm24C connectable rock bolts

| Size      | Description              | Length (m)                      |         | Weight (kg) | Product number |
|-----------|--------------------------|---------------------------------|---------|-------------|----------------|
|           |                          | Assembled                       | Overall |             |                |
| SWX Pm24C | Blind segment            | 1.62                            | 1.62    | 6.3         | 9899 7080 00   |
|           | Blind segment            | 1.92                            | 1.92    | 7.8         | 9899 7080 01   |
|           | Blind segment            | 2.22                            | 2.22    | 8.5         | 9899 7080 02   |
|           | Blind segment            | 2.52                            | 2.52    | 9.7         | 9899 7080 03   |
|           | Blind segment            | 3.12                            | 3.12    | 11.9        | 9899 7080 04   |
|           | Blind segment            | 4.12                            | 4.12    | 15.9        | 9899 7080 05   |
|           | Middle segment           | 1.62                            | 1.72    | 6.6         | 9899 7013 91   |
|           | Middle segment           | 1.92                            | 2.02    | 7.9         | 9899 7013 85   |
|           | Middle segment           | 2.22                            | 2.32    | 8.8         | 9899 7013 97   |
|           | Middle segment           | 2.52                            | 2.62    | 10.0        | 9899 7013 31   |
|           | Middle segment           | 3.12                            | 3.22    | 12.2        | 9899 7013 33   |
|           | Middle segment           | 4.12                            | 4.22    | 16.1        | 9899 7013 94   |
|           | Injection segment        | 1.52                            | 1.62    | 6.4         | 9899 7013 90   |
|           | Injection segment        | 1.82                            | 1.92    | 7.4         | 9899 7013 87   |
|           | Injection segment        | 2.12                            | 2.22    | 8.5         | 9899 7013 96   |
|           | Injection segment        | 2.42                            | 2.52    | 9.7         | 9899 7013 32   |
|           | Injection segment        | 3.02                            | 3.12    | 12.0        | 9899 7013 34   |
|           | Injection segment        | 4.02                            | 4.12    | 15.9        | 9899 7013 93   |
|           | Swellex Plug-on retainer |                                 |         |             |                |
|           | SWX Pm24C                | Optional blind segment retainer |         | 0.05        | 9899 7080 11   |

Custom lengths available upon request. Cone intalled bolts available upon request.  
Refer to colour chart 7.



# Swellex PM24C

## Swellex connectable rock bolts - Plastic Coated

| General information Swellex Pm24 connectables |         |
|-----------------------------------------------|---------|
| Minimum breaking load                         | 240 kN  |
| Minimum yielding load                         | 200 kN  |
| Minimum elongation                            | 10%     |
| Expansion pressure                            | 300 bar |

For further information, see also technical data page 7.

Minimum elongation "A": According to EN-ISO 6892-1 where applicable.



## Swellex Pm24C connectable rock bolts - Plastic Coated

| Size                     | Description                     | Length (m) |         | Weight (kg) | Product number |
|--------------------------|---------------------------------|------------|---------|-------------|----------------|
|                          |                                 | Assembled  | Overall |             |                |
| SWX Pm24C                | Blind segment                   | 1.62       | 1.62    | 6.3         | 9899 7080 06   |
|                          | Blind segment                   | 1.92       | 1.92    | 7.8         | 9899 7080 07   |
|                          | Blind segment                   | 2.22       | 2.22    | 8.5         | 9899 7080 08   |
|                          | Blind segment                   | 2.52       | 2.52    | 9.7         | 9899 7080 09   |
|                          | Blind segment                   | 3.12       | 3.12    | 12.0        | 9899 7080 10   |
|                          | Middle segment                  | 1.62       | 1.72    | 6.6         | 9899 7014 10   |
|                          | Middle segment                  | 1.92       | 2.02    | 7.9         | 9899 7014 04   |
|                          | Middle segment                  | 2.22       | 2.32    | 8.8         | 9899 7014 14   |
|                          | Middle segment                  | 2.52       | 2.62    | 10.0        | 9899 7014 01   |
|                          | Middle segment                  | 3.12       | 3.22    | 12.2        | 9899 7014 06   |
|                          | Injection segment               | 1.52       | 1.62    | 6.4         | 9899 7014 09   |
|                          | Injection segment               | 1.82       | 1.92    | 7.4         | 9899 7014 02   |
|                          | Injection segment               | 2.12       | 2.22    | 8.5         | 9899 7014 13   |
|                          | Injection segment               | 2.42       | 2.52    | 9.7         | 9899 7013 99   |
|                          | Injection segment               | 3.02       | 3.12    | 12.0        | 9899 7014 07   |
| Swellex Plug-on retainer |                                 |            |         |             |                |
| SWX Pm24C                | Optional blind segment retainer |            |         | 0.05        | 9899 7080 11   |

# Swellex PM24H

## Swellex rock bolts

| General information Swellex Pm24H |         |
|-----------------------------------|---------|
| Minimum breaking load             | 200 kN  |
| Minimum yielding load             | 190 kN  |
| Minimum elongation                | 10%     |
| Expansion pressure                | 300 bar |

For further information, see also technical data page 7.

Minimum elongation "A": According to EN-ISO 6892-1 where applicable.



## Swellex Pm24H hanger rock bolts

| Size           | Description | Length (m) | Weight (kg) | Product number |
|----------------|-------------|------------|-------------|----------------|
| SWX Pm24H      | M36 thread  | 1.5        | 7.7         | 9899 7006 67   |
|                | M36 thread  | 1.8        | 8.0         | 9899 7026 43   |
|                | M36 thread  | 2.1        | 9.9         | 9899 7006 68   |
|                | M36 thread  | 2.4        | 11.1        | 9899 7006 69   |
|                | M36 thread  | 2.7        | 12.3        | 9899 7017 95   |
|                | M36 thread  | 3.0        | 13.4        | 9899 7006 17   |
|                | M36 thread  | 4.0        | 17.2        | 9899 7006 70   |
|                | M36 thread  | 4.5        | 19.1        | 9899 7017 96   |
|                | M36 thread  | 5.0        | 21.0        | 9899 7017 84   |
| Plastic Coated |             |            |             |                |
| SWX Pm24H      | M36 thread  | 1.5        | 7.7         | on request     |
|                | M36 thread  | 2.1        | 9.9         | on request     |
|                | M36 thread  | 2.4        | 11.1        | 9899 7103 33   |
|                | M36 thread  | 3.0        | 13.4        | on request     |

## Swellex Pm 24H Accessories

| Size                            | Description                               | Weight (kg) | Product number |
|---------------------------------|-------------------------------------------|-------------|----------------|
| SWX Pm24H                       | M36 eyebolt                               | 2.8         | 9899 7022 83   |
| Swellex Pm24H expansion adapter |                                           |             |                |
| SWX Pm24H                       | Expansion adapter M36 for 24 series chuck | 0.3         | 9899 7006 19   |
|                                 | Expansion adapter M36 for 12 series chuck | 0.3         | 9899 7027 90   |

# Swellex MN12

## Swellex rock bolts

| General information Swellex Mn12 |         |
|----------------------------------|---------|
| Minimum breaking load            | 110 kN  |
| Minimum yielding load            | 90 kN   |
| Minimum elongation               | 20%     |
| Expansion pressure               | 300 bar |

For further information, see also technical data page 7.

Minimum elongation 'A': According to EN-ISO 6892-1 where applicable.



## Swellex Mn12 rock bolts

| Size           | Length (m) | Weight (kg) | Product number incl. color plug |
|----------------|------------|-------------|---------------------------------|
| SWX Mn12       | 1.2        | 2.5         | 9899 7080 37                    |
|                | 1.5        | 3.1         | 9899 7080 38                    |
|                | 1.8        | 3.6         | 9899 7080 39                    |
|                | 2.1        | 4.3         | 9899 7080 40                    |
|                | 2.4        | 4.9         | 9899 7080 41                    |
|                | 2.7        | 5.5         | 9899 7080 42                    |
|                | 3.0        | 6.0         | 9899 7080 43                    |
|                | 3.3        | 6.6         | 9899 7080 44                    |
|                | 3.6        | 7.2         | 9899 7080 45                    |
|                | 4.0        | 8.0         | 9899 7080 46                    |
|                | 4.5        | 8.9         | 9899 7080 47                    |
|                | 5.0        | 10.0        | 9899 7080 48                    |
|                | 6.0        | 11.9        | on request                      |
|                | 6.5        | 12.9        | on request                      |
| Plastic Coated |            |             |                                 |
| SWX Mn12       | 1.2        | 2.5         | 9899 7080 24                    |
|                | 1.5        | 3.1         | 9899 7080 25                    |
|                | 1.8        | 3.6         | 9899 7080 26                    |
|                | 2.1        | 4.3         | 9899 7080 27                    |
|                | 2.4        | 4.9         | 9899 7080 28                    |
|                | 2.7        | 5.5         | 9899 7080 29                    |
|                | 3.0        | 6.0         | 9899 7080 30                    |
|                | 3.3        | 6.6         | 9899 7080 31                    |
|                | 3.6        | 7.2         | 9899 7080 32                    |
|                | 4.0        | 8.0         | 9899 7080 33                    |
|                | 4.5        | 8.9         | 9899 7080 34                    |
|                | 5.0        | 10.0        | 9899 7080 35                    |

Custom lengths available upon request. Cone intalled bolts available upon request.  
Refer to colour chart 7.

# Swellex MN16

## Swellex rock bolts

| General information Swellex Mn16 |         |
|----------------------------------|---------|
| Minimum breaking load            | 150 kN  |
| Minimum yielding load            | 100 kN  |
| Minimum elongation               | 20%     |
| Expansion pressure               | 240 bar |

For further information, see also technical data page 7.

Minimum elongation \*A\*: According to EN-ISO 6892-1 where applicable.



## Swellex Mn16 rock bolts

| Size     | Length (m) | Weight (kg) | Product number incl. color plug |
|----------|------------|-------------|---------------------------------|
| SWX Mn16 | 1.5        | 4.3         | 9899 7087 26                    |
|          | 1.8        | 5.2         | 9899 7087 27                    |
|          | 2.0        | 6.0         | 9899 7087 28                    |
|          | 2.1        | 6.6         | 9899 7087 29                    |
|          | 2.4        | 7.4         | 9899 7087 30                    |
|          | 2.7        | 8.2         | 9899 7087 31                    |
|          | 3.0        | 9.0         | 9899 7087 32                    |
|          | 3.3        | 9.7         | 9899 7087 33                    |
|          | 3.6        | 11.2        | 9899 7087 34                    |
|          | 4.0        | 11.6        | 9899 7087 35                    |
|          | 4.5        | 12.0        | 9899 7087 36                    |
|          | 5.0        | 13.2        | 9899 7087 37                    |
|          | 6.0        | 15.9        | 9899 7087 38                    |
|          | 6.5        | 17.1        | 9899 7087 39                    |

Custom lengths available upon request. Cone intalled bolts available upon request.  
Refer to colour chart 7.



# Swellex MN24

## Swellex rock bolts

| General information Swellex Mn24 |         |
|----------------------------------|---------|
| Minimum breaking load            | 220 kN  |
| Minimum yielding load            | 180 kN  |
| Minimum elongation               | 20%     |
| Expansion pressure               | 300 bar |

For further information, see also technical data page 7.

Minimum elongation \*A\*: According to EN-ISO 6892-1 where applicable.



## Swellex Mn24 rock bolts

| Size           | Length (m) | Weight (kg) | Product number incl. color plug |
|----------------|------------|-------------|---------------------------------|
| SWX Mn24       | 1.5        | 5.6         | 9899 7083 50                    |
|                | 1.8        | 7.2         | 9899 7083 51                    |
|                | 2.1        | 9.4         | 9899 7083 52                    |
|                | 2.4        | 9.4         | 9899 7083 53                    |
|                | 2.7        | 10.5        | 9899 7083 54                    |
|                | 3.0        | 11.7        | 9899 7083 55                    |
|                | 3.3        | 12.8        | 9899 7083 56                    |
|                | 3.6        | 13.9        | 9899 7083 57                    |
|                | 3.9        | 15.2        | 9899 7083 58                    |
|                | 4.0        | 15.4        | 9899 7083 59                    |
|                | 4.5        | 17.3        | 9899 7083 60                    |
|                | 5.0        | 19.2        | 9899 7083 62                    |
|                | 5.5        | 21.1        | 9899 7083 63                    |
|                | 6.0        | 22.9        | 9899 7083 64                    |
|                | 6.5        | 24.8        | 9899 7083 65                    |
|                | 7.0        | 26.7        | 9899 7083 66                    |
| Plastic Coated |            |             |                                 |
| SWX Mn24       | 1.8        | 5.6         | 9899 7083 69                    |
|                | 2.4        | 9.4         | 9899 7083 71                    |
|                | 3.0        | 11.7        | 9899 7083 73                    |
|                | 3.3        | 12.8        | 9899 7083 74                    |
|                | 3.6        | 13.9        | 9899 7083 75                    |
|                | 4.9        | 18.9        | 9899 7083 79                    |

Custom lengths available upon request. Cone intalled bolts available upon request.  
Refer to colour chart 7.

# Swellex face plates and washers

## Swellex face plates

| Name         | Description                                                                      | ASTM Grade | Load capacity (kN)<br>Sp/Pm/Mn                    | Geometry (mm x mm) | Hole Size (Dia.) | Weight (kg) | Product number |
|--------------|----------------------------------------------------------------------------------|------------|---------------------------------------------------|--------------------|------------------|-------------|----------------|
| P12          | Performance plate for 12 range bolts, domed                                      | 3          | 100                                               | 152 x 152          | 31.0             | 1.02        | 9899 7006 33   |
| M12          | MID performance plate for 12 range bolts, domed                                  | 2          | 80                                                | 152 x 152          | 31.0             | 1.02        | 9899 7006 32   |
| F12          | Flat plate for 12 range bolts                                                    | N/A        | 70/90                                             | 127 x 127          | 31.0             | 0.71        | 9899 7006 31   |
| V12          | Value plate for 12 range bolts, domed                                            | N/A        | 50                                                | 150 x 150          | 31.0             | 0.80        | 9899 7014 18   |
| P16/24       | Performance plate for 16 and 24 range bolt, domed                                | 3          | 170/190                                           | 152 x 152          | 40.6             | 1.02        | 9899 7006 34   |
| P24L         | Performance plate for 16 and 24 range bolts, domed with lance                    | 3          | 170/190                                           | 152 x 152          | 40.6             | 1.02        | 9899 7030 35   |
| P24C         | Performance plate for Pm24 connectable bolt, domed                               | 3          | 180                                               | 152 x152           | 44.5             | 1.02        | 9899 7006 35   |
| V16/24       | Value plate for 16 and 24 range bolts                                            | N/A        | 50                                                | 150x150            | 41.5             | 0.82        | 9899 7014 21   |
| V24C         | Value plate for connectables                                                     | N/A        | 50                                                | 150X150            | 41.5             | 0.82        | 9899 7021 10   |
| RE12 4"x 4"  | Rabbit ears plate for chain 1/3" or 3/8" chain , 4" square x 4" square L shapped | N/A        | *capacity safety factor 6<br>Hanging capacity 5.4 | 102 x 102          | 31.0             | 0.25        | 9899 7030 34   |
| RE12 5" x 5" | Rabbit ears plate for chain 1/3" or 3/8" chain , 5" square x 5" square L shapped | 2          | *capacity safety factor 6<br>Hanging capacity 5.4 | 127 x 127          | 31.0             | 1.70        | 9899 7033 20   |
| RE24 5" x 5" | Rabbit ears plate for chain 1/3" or 3/8" chain, 5" square x 5" square L shapped. | N/A        | *capacity safety factor 6<br>Hanging capacity 5.4 | 127 x127           | 40.6             | 1.70        | 9899 7087 00   |

## Swellex washers

| Name  | Description                                  | Geometry (mm) | Indicative load capacity (kN) | Product number |
|-------|----------------------------------------------|---------------|-------------------------------|----------------|
| MWR12 | Mesh washer round for 12 range bolts         | 100 Round     | 12                            | 3125 5400 00   |
| MWS12 | Mesh washer square for 12 range bolts        | 125 x 125     | 12                            | 3125 5492 00   |
| MWS24 | Mesh washer square for 16 and 24 range bolts | 125 x 125     | 12                            | 3125 5655 00   |



# Swellex pneumatic pumps

## Swellex pneumatic pump, PSP 300 RDP

| Description                                                                                           | Weight (kg)          | Product number |
|-------------------------------------------------------------------------------------------------------|----------------------|----------------|
| PSP 300 RDP<br>(no installation arm included)                                                         | 30.0                 | 8613 2421 40   |
| PSP 300 RDP including arm, chuck, manometer and hose for 12 series bolts (installation arm l=1.6m)    | 36.5                 | 8613 2411 34   |
| PSP 300 RDP including arm, chuck, manometer and hose for 16/24 series bolts (installation arm l=1.6m) | 37                   | 8613 2411 35   |
| Technical data                                                                                        |                      |                |
| Max. working pressure for water                                                                       | 300 bar              |                |
| Min. working pressure for air                                                                         | 6 bar                |                |
| Air consumption at 6 bar, average                                                                     | 18.5 l/s             |                |
| Inlet water pressure                                                                                  | 2- 6 bar             |                |
| Connections - air                                                                                     | Claw coupling (1/2") |                |
| Connections - water                                                                                   | Claw coupling (1/2") |                |
| Noise level op. ear, 4m away                                                                          | Below 96 dB (A)      |                |
| Vibrations in the installation arm                                                                    | Not measurable       |                |
| Length x width x height                                                                               | 280 x 850 x 320mm    |                |
| Weight installation arm with valve and chuck                                                          | 7.0 kg               |                |



# Swellex hydraulic pumps

## Swellex hydraulic pumps, H1, H2R, and HC1-L

| Description                                     | Weight (kg)                   | Product number |
|-------------------------------------------------|-------------------------------|----------------|
| H1                                              | 36.0                          | 8613 1101 87   |
| H2R high corrosion resistance, ALU/Bronze       | 36.0                          | 9899 7081 40   |
| HC1-L**                                         | 38.0                          | 9899 7009 70   |
| <b>Technical data</b>                           |                               |                |
| Inlet water pressure                            | 2-20 bar                      |                |
| Max. outlet water pressure                      | 320 bar                       |                |
| Max. supply water temperature                   | 50°C (H1 /H2R)   60°C (HC1-L) |                |
| Max. water output                               | 14 l/min                      |                |
| Hydraulic pressure                              | 120 - 160 bar                 |                |
| Hydraulic flow                                  | 40 l/min                      |                |
| Vibrations in the installation arm              | Not measureable               |                |
| CE marked                                       | Yes                           |                |
| Length x width x height                         | 780 x 280 x 275 mm            |                |
| Weight of installation arm with valve and chuck | 6.5 kg                        |                |
| Weight of pump, manometer and hose              | 32 kg                         |                |
| Weight of chuck only                            | 1.0 kg                        |                |

\* Pump also available with special arm.

\*\* Data logging pumps.



# Swellex electric pumps

## Swellex electric pump E1, EC1-L

| Description                                  | Voltage        | Weight (kg)          | Product number       |
|----------------------------------------------|----------------|----------------------|----------------------|
| E1 Electric pump                             | 200-220VD      | 80.0                 | 9899 7007 06         |
|                                              | 400 VY         | 80.0                 | 9899 7007 07         |
|                                              | 440VY-60Hz     | 80.0                 | 9899 7007 08         |
|                                              | 480VY-60Hz CSA | 80.0                 | 9899 7007 09*        |
|                                              | 525VD-50Hz     | 80.0                 | 9899 7007 10         |
|                                              | 575VD-60Hz CSA | 80.0                 | 9899 7007 11*        |
|                                              |                |                      |                      |
| EC1-L Electric pump**                        | 400 V Europe   | 90.0                 | 9899 7007 01         |
|                                              | 480 V - 60Hz   | 90.0                 | 9899 7007 03         |
|                                              | 525V - 50 Hz   | 90.0                 | 9899 7007 04         |
|                                              | 575V Canada    | 90.0                 | 9899 7007 05         |
| Technical data                               |                | E1 Electric pump     | EC1-L Electric pump  |
| Max. working pressure for water              |                | 320 bar              | 320 bar              |
| Inlet water pressure                         |                | 2-20 bar             | 2-20 bar             |
| Max. supply water temperature                |                | 40oC                 | 40oC                 |
| Flow rate                                    |                | 14 l/min at 50 Hz    | 14 l/min at 50 Hz    |
| Connection water                             |                | Claw coupling (1/2") | Claw coupling (1/2") |
| Noise level at op. ear, 4 m away             |                | Below 60 dB (A)      | Below 60 dB (A)      |
| Vibration in the installation arm            |                | Not measureable      | Not measureable      |
| Length x width x height                      |                | 420 x 775 x 450mm    | 420 x 775 x 450mm    |
| Weight installation arm with valve and chuck |                | 6.5 kg               | 6.5 kg               |
| Pump weight                                  |                | 80 kg                | 90 kg                |
| Weight for hoses                             |                | 2 kg                 | 2 kg                 |
| Weight for chuck                             |                | 1 kg                 | 1 kg                 |

\* c/w remote control connections as a standard feature.

\*\*Data loggin pumps.

\*\*High pressure wash feature.





# Swellex accessories

## Installation arms with chuck for PSP300 RDP, H1, H2R and E1

| Size         | Description                               | Length (m) | Weight (kg) | Product number |
|--------------|-------------------------------------------|------------|-------------|----------------|
| 12 series    | Installation arm with chuck and manometer | 1.6        | 12.0        | 8613 2430 20   |
| 16/24 series | Installation arm with chuck and manometer | 1.6        | 13.0        | 8613 2430 21   |

## Installation arms with chuck for HC1-L/EC1-L

| Size         | Description                               | Length (m) | Weight (kg) | Product number |
|--------------|-------------------------------------------|------------|-------------|----------------|
| 12 series    | Installation arm with chuck and manometer | 1.6        | 17.0        | 9899 7025 64   |
| 16/24 series | Installation arm with chuck and manometer | 1.6        | 18.0        | 9899 7025 63   |

## Chucks

| Size         | Description                | Weight (kg) | Product number |
|--------------|----------------------------|-------------|----------------|
| 12 series    | Chuck for installation arm | 1.0         | 8613 2441 05   |
| 16/24 series | Chuck for installation arm | 1.4         | 8613 2440 07   |
| 12 series    | Sealing set*               | 0.01        | 6003 5593 00   |
| 16/24 series | Sealing set*               | 0.01        | 6003 6898 00   |

\*Sealing sets for all chucks include 1 set piston seals, 10 sets of seal rings.

## Swellex Quality Assurance Gauge

| Size               | Description          | Weight (kg) | Product number |
|--------------------|----------------------|-------------|----------------|
| 12 series chuck    | Pressure gauge, 30mm | 0.70        | 8613 1101 01   |
| 16/24 series chuck | Pressure gauge, 40mm | 0.70        | 8613 1101 02   |

## Hose Set

| Description                              | Length (m) | Product number |
|------------------------------------------|------------|----------------|
| Hose set PSP (high and low pressure)     | 1.5        | 6003 2334 00   |
| Hose set HC1/EC1 (high and low pressure) | 1.5        | 9899 7009 36   |

## Dolly Kits

| Description         | Weight (kg) | Product number |
|---------------------|-------------|----------------|
| SWX Dolly kit 12    | 10.3        | 9106 2016 40   |
| SWX Dolly kit 16/24 | 11.4        | 9106 2016 41   |
| SWX Dolly control   | 8.0         | 9899 7009 00   |

# Swellex quality control

## Swellex pull test equipment

| Ref. | Description                                                          | Weight (kg) | Product number |
|------|----------------------------------------------------------------------|-------------|----------------|
|      | Pull tester SWX manual hydraulic 300 kN including ref. no. 1,2,3,4,5 | 66.0        | 9899 7030 05   |
| 1    | SWX-SDA-Rx pull tester hydraulic set manual                          | 19.0        | 9899 7030 18   |
| 2    | SWX-SDA-Rx pull test frame complete                                  | 20.8        | 9899 7026 37   |
| 3    | SWX-SDA-Rx pull tester tools and accesory set                        | 4.0         | 9899 7027 10   |
| 4    | SWX for Pm/Mn12/16/24 grip kit                                       | 9.7         | 9899 7026 53   |
| 5    | Box for pull tester                                                  | 18.5        | 9899 7030 19   |

## Swellex steel sleeves - required for anchorage tests

| Size              | Description          | Weight (kg) | Product number |
|-------------------|----------------------|-------------|----------------|
| Mn/Pm12 series    | Sleeve, length 300mm | 0.5         | 9899 7014 54   |
| Mn/Pm16/24 series | Sleeve, length 300mm | 0.8         | 9899 7006 76   |





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