

Swellex

Product catalogue

 Epiroc







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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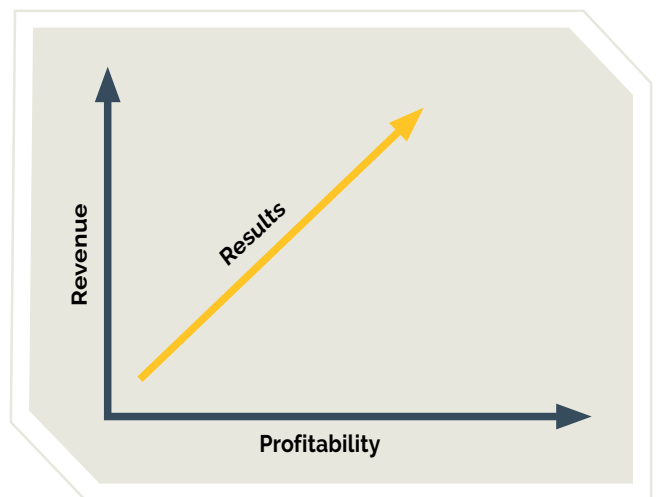
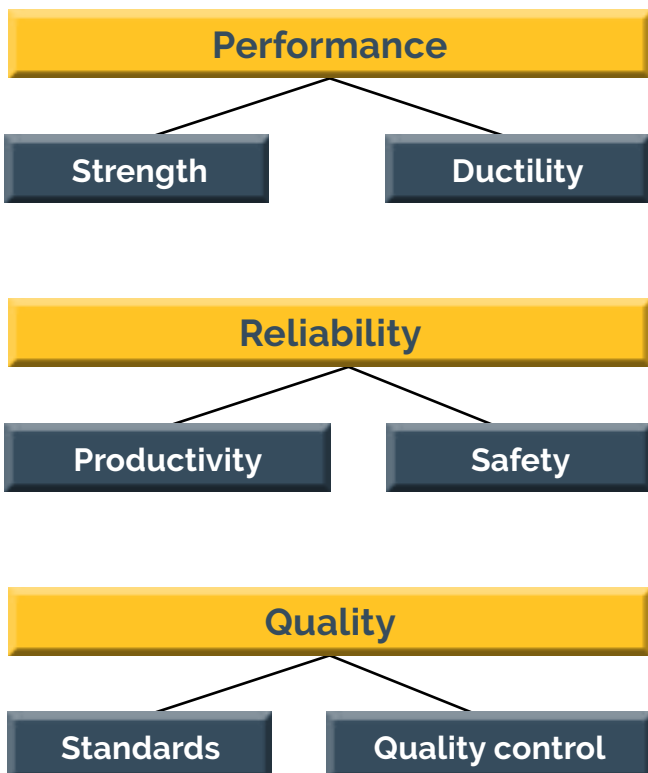
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Our offer

– Epiroc rock reinforcement system



Interested in our values?
Contact your local Epiroc
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) 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 x 152	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 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 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 Hanging capacity 5.4	127 x 127	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 (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
Technical data		
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





Boltec

– A complete solution

Boltec performs exactly the way fully mechanized rockbolting equipment is expected to perform. It drills the hole and installs the bolt. Perfect installation that's fast and easy every time. Boltec is different when compared to other rockbolting equipment. It features constant feed extension.

Active hydraulic pressure locks the single feed into place so only the tools need to be changed. With the feed held firmly against the rock, the bolt is inserted directly in the hole and hits the bull's eye all the time, every time.

Boltec – the leading mechanized equipment for time saving and problem free rockbolting.

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Performance unites us, innovation inspires us, and commitment drives us to keep moving forward. Count on Epiroc to deliver the solutions you need to succeed today and the technology to lead tomorrow.

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