SWEDFAN
Underground Ventilation System

REFERENCES 2021

COMPLETE TURNKEY VENTILATION SYSTEMS FOR LARGE SCALE TUNNELING AND MINING PROJECTS SINCE 1995

SWEDFAN REFERENCES

SWEDFAN

UNDERGROUND VENTILATION SPECIALISTS

With more than 2.000 tunneling projects worldwide, SWEDFAN has the experience and expertise for designing and delivering underground ventilation systems of the highest quality.

Swedfan undertakes the design and calculations for complete ventilation systems. Swedfan also manufacture and supply heavy-duty high-pressure axial tunneling fans for air flows from 2.5 to 200 cu m/sec for flexible ducting with diameters of 500 to 3,300 mm.

FÖRBIFART STOCKHOLM, SWEDEN

SWEDFAN was responsible for the design and supply of the major part of the ventilation for Förbifart Stockholm.

This is the largest ever infrastructure project in Sweden.

ARLANDA AIRPORT, SWEDEN

SWEDFAN was the main supplier of ventilation for underground works for the construction of Arlanda Link Tunnels, the commuter train to Arlanda Airport, the largest airport in Sweden.

DONG AH GEO POHANG-SAMCHUK RAMILWAY, KOREA

SWEDFAN was the supplier of ventilation systems for the Dong Ah Geo POHANG-SAMCHUK RAMILWAY project in Korea.

CU MONG PASS TUNNEL, VIETNAM

SWEDFAN delivers high quality ventilation systems for underground works all over the world, here to the Cu Mong Pass tunnel in Vietnam.

BAIHETAN HEPP, CHINA

SWEDFAN did the design of the total ventilation system for the tunneling works of the 18 000 MW hydro electric power project Baihetan in China, the worlds largest underground hydro electric project. A total of 110 fans and 150 000 m ducting was delivered.

Reference List - High Pressure Fans

Customer	Project	Country	Year	Delivered fan type	Qty
Hoban	Dobongsan - Okjung	Korea	2021	AVH-R125.132	4
Italian Thai		Thailand	2020	AVH-R90.90	4
Veidekke	Sickla water treatment plant	Sweden	2020	AVH-R140.160 AVH-R140.132	4 4
CRTG	Stockholm Subway	Sweden	2020	AVH-R140.200	9
Veidekke	Bromma waste water tunnel	Sweden	2020	AVH-R90.90	6
Subterra	Stockholm Subway		2020	AVH-R125.110	1
EurAssia		Kazakhstan	2020	AVH-R180	1
Italian Thai		Thailand	2020	1xAVH-R63.11	2
ITD		Thailand	2020	1xAVH-R63.11.8	1
Hangzhou Agent	Jvrong Hydropower station	Zhejiang/CN	2019	2*AVH-R63.18 2*AVH-R63.15 2*AVH-R140.132	1 1 1
CGGC	Kaka Hydropower station	Angola	2019	2*AVH-R160.200 2*AVH-R160.160 2*AVH-R140.160 2*AVH-R140.110 1*AVH-R160.110 1*AVH-R140.71	1 2 1 2 2 4
CRCC B18	Zhengwan railway	Chongqing/ CN	2019	3*AVH-R140.160	1
CGGC	DASU hydropower station	Pakistan	2019	2*AVH-R140.132	1
CRCC B18	Chengkun railway	Sichuan/CN	2019	2*AVH-R140.160 2*AVH-R140.132 3*AVH-R160.200	1 1 1
Sino B14	Yimeng hydropower station	Shandong/CN	2019	2*AVH-R140.132	1
Zhengjiang tunneling construction Co., Ltd.	Jiangnan water diversion	Zhejiang/CN	2019	3*AVH-R125.75	1
CGGC	SK hydropower station	Pakistan	2019	2*AVH-R140.90 2*AVH-R125.90 1*AVH-R125.90	2 4 2
Sino B6	Jianyuan highway	Yunnan/CN	2018	2*AVH-R125.90	2
Shenzhen Agent	Kashuang water diversion-CRCC B19	Xinjiang/CN	2018	2*AVH-R125.90	2
Shenzhen Agent	Kashuang water diversion-CRCC B14	Xinjiang/CN	2018	2*AVH-R90.55	2
Shenzhen Agent	Kashuang water diversion-Sino B6	Xinjiang/CN	2018	3*AVH-R140.132 3*AVH-R140.160	1 1
CRCC B18	Tianheshan Tunnel	Shanxi/CN	2018	2*AVH-R125.90 2*AVH-R125.90	1 1
Hangzhou Agent	Wendeng hydropower station	Shandong/CN	2018	2*AVH-R140.160	2
CRCC B17	Saneshan railway tunnel	Sichuan/CN	2018	2*AVH-R140.132 2*AVH-R140.160	2 1
CRCC B18	Guangjingkou Tunnel	Chongqing/ CN	2018	2*AVH-R63.11	2
Fujian tunnel construction Co., Ltd.	Lijiang project	Yunnan/CN	2018	2*AVH-R140.132	1

CRCC B23-1	Darui railway project	Yunan/CN	2018	2*AVH-R90.55	1
Sino International	Indonesian hydropower station	Indonesian	2018	1*AVH-R140.110 2*AVH-R140.110 1*AVH-R140.75	11 2 2
CRCC Guangzhou Branch	Guiding Railway	Guizhou/CN	2018	1*AVH-R160.160 2*AVH-R160.160	2 2
Hangzhou Agent	Ninghai hydropower station	Zhejiang/CN	2018	1*AVH-R125.90 1*AVH-R125.110	1 1
Xi'an Dinglan construction Co., Ltd.	Mohan railway	Yunnan/CN	2018	2*AVH-R140.132	1
CRCC B18	Chengkun railway	Sichuan/CN	2018	2*AVH-R140.132	1
Taizhou Sinohydro Constrution	Qiandao Lake-Yuhang	Zhejiang /CN	2017	2*AVH-R125.75	1
CRCC B1-4	Chengdu Airport Highway	Chengdu /CN	2017	1*AVH-R140.132 1*AVH-R160.200	2 2
CRCC B11-4	Saneshan Tunnel	Leshan /CN	2017	2*AVH-R140.132	1
Hangzhou Agent	Jvrong	Jiangsu /CN	2017	2*AVH-R160.160 2*AVH-R140.132	1 1
CRCC B19	Xinjiang	Xinjiang /CN	2017	2*AVH-R140.110	2
Sinohydro B14	Lufeng	Guangdong /CN	2017	2*AVH-R125.75	1
CGGC	Changlongshan	Zhejiang /CN	2017	2*AVH-R140.132 2*AVH-R125.90 2*AVH-R63.18 2*AVH-R63.15 1*AVH-R125.55	3 1 2 1 1
Wuhan Changjiang Technology	Zhanjiang Oil storage	Guangdong /CN	2017	1*AVH-R160.200	1
Sinohydra B4	Xinjiang	Xinjiang /CN	2017	2*AVH-R125.90 2*AVH-R90.55	1 1
CRCC B18	Xinjiang	Xinjiang /CN	2017	2*AVH-R90.55	1
Yunnan Gongtou	Yunxiang tunnel	Yunnan /CN	2017	1*AVH-R125.90	1
Yunnan Gongtou	Yunxiang tunnel	Yunnan /CN	2017	1*AVH-R125.90	1
CRCC B11-4	Saneshan Tunnel	Leshan /CN	2017	2*AVH-R140.132	1
Sinohydro Trade Chengdu Company	Yangjiang	Guangdong /CN	2017	2*AVH-R160.160 2*AVH-R160.200	1 1
CRCC B18 Xingquan Railway	Xingquan	Fujian /CN	2017	1*AVH-R140.110 1*AVH-R140.132 2*AVH-R140.132	6 3 2
CRCC B15 C1	Yumo Railway	Yunnan Mengla /CN	2017	2*AVH-R140.132	2
CRCC B15 C3	Yumo Railway	Yunnan Mengla /CN	2017	2*AVH-R140.132	1
CRCC B8	Xiuling Railway	Darui /CN	2017	2*AVH-R125.75	2
Sino B6	Jiangmen Zhongwei	Jiangmen /CN	2017	2*AVH-R90.55	1
CMC/Vianini	Förbifart Stockholm, Lovön	SE	2017	AVH-R180.355 AVH-R180.200 AVH-R140.200	9
Right Tunnelling	High speed train	TH	2017	AVH-R90.90	3
Haerhe Entreprenor		NO	2017	AVH-R160.200	4
UT-Vega	Sarmiento	AR	2017	AVH-R90.75	1
Subterra	Förbifart Stockholm, Sätra Skärholmen	SE	2017	AVH-R180.315 AVH-R160.200	2 2
Sino B7	Chengdu Metro	Chengdu /CN	2016	1*AVH-R140.160	4
CGGC Maanshan	Maanshan	Chongqing /CN	2016	2*AVH-R90.55	1
Sino B7	Chengdu Metro	Chengdu /CN	2016	1*AVH-R140.160	4
CGGC Maanshan	Maanshan	Chongqing /CN	2016	2*AVH-R90.55	1

AF Gruppen	Smisto HEPP	NO	2016	AVH-R90.110	2
	Taizhou	CN	2016	AVH-R140.110	4
GS Const.	Sinrim-Bongchun Cont. 2	KR	2016	AVH-R125.132	1
Hanyou Const.	Mokdong Rain water Storage	KR	2016	AVH-R125.110	1
Samsung	Gupo-Duksan Railway	KR	2016	AVH-R125.110	1
Protext Construction	Malaysia	MY	2016	AVH-R90.45	2
CRCC B8	Qianzhangchang	CN	2016	AVH-R140.132	3
Odebrect/Acciona	Metro Quito **TBM**	EQ	2016	AVH-R125.90	3
	Yanjiabao	CN	2016	AVH-R140.110	2
CREC B8	Xiuling	CN	2016	AVH-R125.75	5
CRTG B18	Hongxin Metro Chengdu	CN	2016	AVH-R140.132	9
	Jixi	CN	2016	AVH-R125.90	2
HAI THACH GROUP	Cumong tunnel	VN	2016	AVH-R140.90	2
Ertan	Yangfanggou HEPP	CN	2016	AVH-R160.200 AVH-R160.160 AVH-R140.132	13
Prime Rental	Korea projects	KR	2016	AVH-R125.132 AVH-R160.200 AVH-R100.132 AVH-R160.160	16
CRCC B18	Yanjiabao	CN	2015	AVH-R140.110	2
CRTG B12	Hangqian tunnel	CN	2015	AVH-R125.90	4
CRTG B18	Qianzhangchang	CN	2015	AVH-R140.132	3
Sino Hydro B8	Hangqian tunnel	CN	2015	AVH-R125.75	5
CRTG B18	Hangqian tunnel	CN	2015	AVH-R125.75	6
Samho	Ulsan Tunnel	KR	2015	AVH-R160.160	4
Dogus Insaat and Ticaret A.S.	Riyadh Metro **TBM**	SA	2015	AVH-R140.160	4
CGGC/ Sino Hydro	Baihetan	CN	2013-2014	AVH-R90.75 AVH-R140.132 AVH-R160.160 AVH-R180	110
Alfred Kuntz	Schwarzkopftunnel	DE	2014	AVH-R180.250	2
Cosapi/Maz Errazuriz	Quellaveco	PE	2014	AVH-R160.250	2
Odebrecht	Lauca, Angola	BR	2014	AVH-R180.250	4
Well Connected JV (McConnell Dowell/Obayashi/Fletcher)	Waterview	NZ	2013	AVH-R63.18 AVH-R125.55 AVH-R180.315	4
CGGC	Laos **TBM**	CN	2013	AVH-R90.75.2.8	6
CGGC	Qirehatar	CN	2013	AVH125.75.4.8	6
CCCC Ltd	Zhuhai-Macau-Hong Kong immersed tube tunnel	CN	2013	AVH160.250.4.10	2
Jardine Engineering	Bangkok MRT	TH	2012	AVH90.55.2.8	3
Polymetal	Maskoy Mine	RU	2012	AVH180.500.4.10	2
Astaldi Gülermak JV	Metro Warzaw **TBM**	PL	2012	AVH90.90.2.8	4
Astaldi GyM JV	St Teresa HEPP	PE	2012	AVH125.132.4.8 AVH125.90.4.8	5 2
Veidekke		NO	2012	AVH160.200.4.10	1
Polymetal	Mine	RU	2012	AVH125.110.4.8	9
Gammon	WIL Hong Kong	HK	2012	AVH125.55.4.8	1
Pizzarotti Israel J.V.	Tel Aviv Railway	IL	2012	AVH160.160.4.10	4
Sino Hydro No. 14	Coca Codo Sinclair **TBM**	CN/EC	2012	AVH160.200.4.10	3
McConnel Dowell	Abu Dhabi	UAE	2012	AVH63.9.2.8	4
Istak HF	Finnmark, Norway	NO	2011	AVH125.75.4.8	1
Istak HF	Búðarhásl	IS	2011	AVH140.132.4.8	2
Minera Santa Lucia	Mines	PE	2011	AVH90.75.2.8	2
Ssangyong	Singapore Meto DTL-3 C-921 **TBM**	SG	2011	AVH71.37.2.8	1

Kumtor	Kyrgyz open pit	KG	2011	AVH140.90.4.8	4
CGGC	Neelum Jhelum, Pakistan	CN	2011	AVH160.132.4.10 AVH125.132.4.8	6 2
Sino Hydro Bureau #10	Coca Codo Sinclair, Ecuador **TBM**	CN/EC	2011	AVH160.200.4.10	3
Odebrecht	Cambamba, Angola	BR	2011	AVH125.110.4.8	4
Fortune Construction	Hydro Power project	TW	2011	AVH90.75.2.8	2
Somincor	Mine	PT	2011	AVH90.110.2.8	2
Skanska	Oslo waste water tunnel	NO	2011	AVH71.37.2.8	1
NCC Construction	Vossevangen	NO	2011	AVH140.132.4.8	5
Costain Limited	ITT London Cable Replacement Tunnels	GB	2011	AVH71.37.2.8 AVH63.18.2.8	3 5
Odebrecht	Caracas Metro Los Teques **TBM**	VE	2011	AVH90.90.2.8	6
Minera Santa Luisa	Mines	PE	2011	AVH90.90.2.8 AVH125.75.4.8	7 2
STEC	Singapore Metro DTL3-C920 **TBM**	SG	2011	AVH90.55.2.8	4
CRCC Bureau No. 18	Thuong Kon Kum HEPP	VN	2011	AVH125.75.4.8	4
Constuctora JME	Quitaracsa	PE	2011	AVH90.55.2.8	8
CRCC Bureau No. 18	Chongqing Metro 3	CN	2011	AVH90.55.2.8	2
Erchu Co. Ltd	Nan Lvliang	CN	2011	AVH180.200.4.10 AVH160.110.4.10	8 4
An Neng Construction Group	Huangdao Petrol Storage Caverns	CN	2011	AVH180.315.4.10 AVH140.132.4.8 AVH90.90.2.8	9 3 4
Gammon Nishimatsu	WIL 704 Hong Kong	HK	2011	AVH125.55.4.8	3
Istak	Búðarhásl	IS	2011	AVH140.132.4.8	2
OJC OLCON	Olenegorsky Mine	RU	2011	AVH224.315.6.12	1
Khuzhir Enterprise Ltd	Konevinskoe mine	RU	2011	AVH180.315.4.10	2
Sungbo	Injae Tunnel	KR	2010	AVH125.110.4.8	4
Polymetal Trading Ltd	Lunnoe Mine	RU	2010	AVH160.200.4.10	2
Polymetal Trading Ltd	Ducat Mine	RU	2010	AVH224.160.4.10	2
Shimizu J.V, Malaysia	Pahang Selangor **TBM**	MY	2010	AVH90.90.2.8	6
Rana Gruber	Mine	NO	2010	AVH63.15.2.8	10
AF Anlegg AS	Ringvei Vest Bergen	NO	2010	AVH180.315.4.10	3
Constructora Norberto Odebrecht	El Tigre	AR	2010	AVH90.90.2.8	4
Gammon, Hong Kong	HATS 23	HK	2010	AVH90	11
Constructora Norberto Odebrecht	Saneamiento de Bahia, Panama	PA	2010	AVH71.30.2.8	4
NCC Sweden	Norrströmstunneln, Stockholm	SE	2010	AVH125.90.4.8	8
VSK Mining	Gemerska Poloma	SK	2010	AVH140.4.8	1
Adval	Tunnel	BG	2010	AVH90.110.2.8	2
Skanska B.S.	Slovenia tunnel	SK	2010	AVH140.110.4.8	2
NCC Norway		NO	2010	AVH140.132.4.8	2
Sojitz Beralt	Minas Da Panasqurira	PT	2010	AVH63.16.2.8	3
Polymetal Trading Ltd	Goltsovoe mine	RU	2010	AVH160.132.4.10	2
Gränges Industries Australia	Mines	AU	2010	AVH90, AVH125, AVH140	8
Härhe	Holsbru Kraftverk	NO	2010	AVH90.110.2.8	4
Gulfrock	Dubai	AE	2010	AVH125.110.4.8	2
CRTG	West Qingling Project **TBM**	CN	2010	AVH160.160.4.10	3
OJC OLCON	Olenegorsky Mine	RU	2010	AVH224.315.6.12	1
Odebrecht	Baixo Sabor	PT	2010	AVH90.110.2.8 AVH125.110.4.8	2 2
Geotechmin	Sofia Metro	BG	2010	AVH71.37.2.8	2

Polymetal Trading Ltd Wayss & Freytag	Mayskoe Mine KAT	RU DE	2010 2010	AVH180.500.4.10 AVH180.250.4.10	2 2
Construtora Odebrecht	Caracas Metro, Line 5 **TBM**	VE	2010	AVH90.75.2.8	2
Yertas Construction	Kandil Dam derivation	TR	2010	AVH125.55.4.8	10
Construtora Odebrecht	Caracas Metro, Los Teques **TBM**	VE	2010	AVH90.90.2.8	6
Kraftleveranser	Oldens Kraftverk	SE	2009	AVH71.30.2.8	4
Zhengbang, China	Neelum Jhelum C1	PK	2009	AVH125.132.4.8	4
Contrutora Odebrecht, Brazil	Palomino HEPP	DO	2009	AVH125.90.4.8	7
CMC, Italy	Ingula HEPP	ZA	2009	AVH140.55.4.8 AVH160.110.4.10 AVH180.315.4.10 AVH63.15.2.8	5 3 1 2
BESAB	Bolmens Kraftverk	SE	2009	AVH63.25.2.8	2
McConnel Dowell	MTR Singapore **TBM**	SG	2009	AVH90.45.2.8	2
SELI, Italy	Kishanganga **TBM**	IT/IN	2009	AVH125.160.4.8	6
Bilfinger + Berger GmbH	Odenplan Centraltunneln	SE	2009	AVH160.200.4.10	3
AF Anlegg	T-Forbindelsen	NO	2009	AVH180.315.4.10	3
Geotechmin	Elatsite		2009	AVH90.55.2.8	1
Somincor	Mining fan	PT	2009	AVH90.110.2.8 AVH90.55.2.8 AVH90.75.2.8	1 2 2
OJSC "Apatit"	Rasvumchorrsky mine	RU	2009	AVH224.355.6.12	8
Spilde	Kirkenes HEPP	NO	2009	AVH90.110.2.8	1
Haerhe Entr.	Toventunneln	NO	2009	AVH160.200.4.10	2
Cengiz-Ictas-Belen	Ankara-Istanbul High speed train	TR	2009	AVH125.110.4.8	2
Construtora Odebrecht	Baixo Sabor HEPP	PT	2009	AVM90.45.2.8	4
I.C.G Iran	Dasht e Sahab	IR	2009	AVH160.160 (Eexd)	3
CRTS	Yintao Railway tunnel **TBM**	CN	2009	AVH125.75	4
Marti	Bibra tunnel	CH	2009	AVH160.160	3
CGGC-CMEC	Neelum-Jheelum HEPP, Pakistan	CN/PK	2009	AVH160.132 AVH140.110 AVH125.90 AVH90.55	6 10 5 3
ILCI Construction	Mavi tunnel	TU	2009	AVH125.55.4.8 AVH90.110.2.8	4 2
Veidekke	Kjösnesfjorden	NO	2008	AVH90.110	4
	Skala Tunnel	DK	2008	AVH90.75	1
John Holland	Bluewater Sydney Desalination plant	AU	2008	AVH63.25	8
John Holland	Northern Sewerage Project Melbourne	AU	2008	AVH63.18	19
Schachtbau Nordhausen	Tunnel Müss	DE	2008	AVH160.110	2
Boliden Mineral AB	Garpenberg Mine	SE	2008	AVH90, AVH63	9
MT Höjgaard Färöyar	Färöarna	DK	2008	AVH90.45	3
Constructora Odebrecht	HEPP Palomino **TBM**	DO	2008	AVH125.90	4
John Holland	NSP #2	AU	2008	AVH63.25	4
Changuinola CWJV	Changuinola HEPP	PA	2008	AVH125.132	3
Boliden Mineral	Garpenberg Mine	SE	2008	AVH180.400	2
CMC di Ravenna	Gansu YinTao China **TBM**	CN	2008	AVH125.110	4
Birkeland A/S	Jössang Kraftverk	NO	2008	AVH125.110	2
Risa Rock A/S	Jössang Kraftverk	NO	2008	AVH140.110	3

Cogeis	Aosta	IT	2008	AVH90.55	2
SELI	Teheran **TBM**	IR	2008	AVH125.110	2
Skladgradnja	Croatia	HR	2008	AVH125.90	1
Ångpanneföreningen	Henriksdal	SE	2008	AVH125.45	1
Marti	Bibra Tunnel	CH	2008	AVH160.160	3
SELI S.p.A.	Salonicco, Greece **TBM**	GR	2008	AVH125.110.4.8	6
McConnel Dowell	Bogong Power Dev. Project	AU	2007	AVH90.90.2.8 AVH71.30.2.8	6
Bechtel Enka J.V	Albania Highway Project	AL	2007	AVH125.75.4.8	4
Rahzaz		IR	2007	AVH125.110.4.8	1
AF Anlegg	Highway Trondheim	NO	2007	AVH160.160.4.8	2
Veidekke Entreprenör A.S	Kjösnesfjorden Kraftverk	NO	2007	AVH125.110.4.8	4
John Holland	Gold Coast Desalination	AU	2007	AVH63.15.2.8	10
SELI S.p.A.	Jin Ping Project **TBM**	CN	2007	AVH180.400.4.10	4
Bergteamet	Mining project	SE	2007	AVH125.75.4.8	6
Bilfinger Berger/Leighton	Brisbane Bypass tunnel	AU	2007	AVH180.315 AVH140.132	9 2
Somincor Mine		PT	2007	AVH90.45	6
Beton und Monierbau	Partille Spillvattentunnel, Goteborg	SE	2007	AVH90.45 AVH63.25	3 6
Thiess	Sydney City west cable tunnel	AU	2007	AVH63.22	2
McConnel Dowell	Hobson Bay, New Zeeland	NZ	2007	AVH90.45	3
Odebrecht/Herrenknecht	Los Teques, Caracas **TBM**	VE	2007	AVH90.90.	8
Customer	**Project**	**Country**	**Year**	**Delivered fan type**	**Qty**
Geotechmin	Elatzite mine	BU	2007	AVH90.45	2
Rana Gruber	Mine	NO	2006	AVH90.110	1
SMZ Jelsava	Mine	SK	2007	AVH63.19	6
Sino Guizhou Jinfeng Mining Ltd	Mine	CN	2007	AVH90.90	1
Hochtief/Strabag/Zublin JV	H8 Jenbach	AT	2007	AVH140.110	1
Boliden Garpenberg	Mine	SE	2006	AVH 90.75/25.2.8	4
Posiva.Onkalo.	Tunnel	FI	2006	AVH 140.90.4.8	4
CMC Algeriet	Tunnel **TBM**	DZ	2006	AVH 90.37.8	2
Boliden Garpenberg	Mine	SE	2006	AVH 90.75/25.2.8	2
PT Antam	Mine	ID	2006	AVH 71.37.2.8	4
Veidekke	Bodö Tunnel	NO	2006	AVH90.110.2.8	1
Odebrecht	Olmos Transandino **TBM**	PE	2006	AVH125.90.4.8	3
JSC "Alsrosa"	Udachny mine	RU	2006	AVH125.110.4.8	3
PT Antam	Mine	ID	2006	AVH224.132.6.12	2
Härhe Entr.		NO	2006	AVH160.200.4.10	2
Somincor	Mine	PT	2006	AVH90.45.2.8	3
Gulfrock	Caverns	UAE	2006	AVH125.110.4.8	2
Wayss & Freytag	Henndorf	AT	2006	AVH140.90.4.8	1
Nordkalk Oy	Mine	FI	2006	AVH71.18.2.8	4
EPOS	Aljustrel	PT	2006	AVH125.110.4.8	2
Boliden Mineral	Garpenberg mine	SE	2006	AVH90.75.2.8	5
Skanska AB	Värtan	SE	2006	AVH125.90.4.8	2
Boliden Mineral	Garpenberg Mine	SE	2006	AVH63.18.2.8	10
Cavet	Tunnel **TBM**	IT	2005	AVH 180.45.8.10	2
PT Antam	Mine	ID	2005	AVH160.132.4.10	1
PT Antam	Mine	ID	2005	AVH 140.110.4.8	1
PT Antam	Mine	ID	2005	AVH 71.25.2.8	8
Jelsava	Mine	SK	2005	AVH 63.16.3	2
Siderit	Mine	SK	2005	AVH 63.10.2/4.8	1

Boliden Garpenberg	Mine	SE	2005	AVH 90	2
Gharargah Sazandegi Khatam	Tunnel	IR	2005	AVH 140.110/27.2/4	2
PT Antam	Mine	ID	2005	AVH 71.37,2,8	1
Nishimatsu Construction Co.	Num Thuen 2 Project	LA	2005	AVH 90.90/30.2/4.8	2
Epos	Alqueva Loureiro-Alvito	PT	2005	AVH 90.90.2.8	6
Nothen Gateway	Tunnel	NZ	2005	AVH 125.75.8.4	3
	Tunnel	IR	2005	AVH125.110.4.8	2
	Tunnel	IR	2005	AVH90.90.2.8	3
Skanska (Botnia)	Tunnel	SE	2005	AVH 125.90/22.4/8.	1
Saturn	Tunnel	DE	2005	AVH 90.75.2.8	2
Nishimatsu Construction Co.	NUM THUEN 2 PROJECT	LA	2005	AVH160.160.4.10	1
ZUR Constractoin	Tunnel	IL	2004	AVH125.12528.4/4.	1
Vinavico	Tunnel	VN	2004	AVH125.55/14.4/8.8	6
Boliden Garpenberg	Mining	SE	2004	AVH180.250.4.10	2
Boliden Garpenberg	Mining	SE	2004	AVH90.75/25.2/4.8	2
OJSC "Olkon" (Olenegorsky)	Mining	RU	2005	AVH224.315.6.10	8
CMC Kunming	Tunnel **TBM**	CH	2004	AVH63.18.2.8	2
Kruse Smidt	Tunnel	NO	2004	AVH 140.110.4.8	2
Gesom Madenlilik San	Mining	TR	2004	AVH63.11.2.8	4
ZUR Constractoin	Tunnel	IL	2004	AVH125.12528.4/4.	1
ZUR Constractoin	Tunnel	IL	2004	AVH160.160.4.10	2
Consorzio Cavet	Tunnel **TBM**	IT	2004	AVH180.45.8.10	1
Condrill	Tunnel	IR	2004	AVH125.75/18.4/8.8	4
Nor al Mas. Dubai,	AER/TSFCShomal	IR	2003	AVH90.75/2/4.8	2
BM Holding	Ermenek HEPP	TR	2003	AVH125.90.4.8	2
BM Holding	Ermenek HEPP	TR	2003	AVH90.90.2.8	6
Boliden Garpenberg	Mine	SE	2003	AVH90.75/25.2/4.8	2
Mitsui Mining & Smelting Co.	Mine	PU	2003	AVH63.30.2.8	2
ZUR Constractoin	Tunnel	IL	2003	AVH125.110/27.4/4	1
Technovia	Madeira road tunnel	PT	2003	AVH 125.90/22.4/8.	2
Schanghai tunnel	Singapore Metro **TBM**	SG	2003	AVH 90.55/14.2/4.8	2
U.T.E Bregua	Tunnel	ES	2003	AVH125.110.4.8	2
Minerstry of Energi	Tunnel	IR	2003	AVH 90.45/13.2/4.8	8
Minerstry of Energi	Tunnel	IR	2003	AVH 71.26/5.2/4.8	8
Peymab Co.	Ghomrud Conv. Tunnel	IR	2003	AVH 71.21,5/4,7.2/4	1
Peymab Co.	Ghomrud Conv. Tunnel	IR	2003	AVH 90.90/30.2/4.8	2
Peymab Co.	Ghomrud Conv. Tunnel	IR	2003	AHV 100.90/30.2/4.	3
Thiess Hochtief JV	Paramatta	AU	2003	AVH 140.132.4.8	6
Keyhan Tabadol	Tunnel	IR	2003	AVH 90.105/33.2/4.	4
Oden Enterprenad	Bottnia Banan	SE	2003	AVH 125/90/22.4/8.	5
U.T.E. Solvay Cavosa-Ascan	Tunnel	ES	2003	AVH 100.110.4.8	2
CMC Kunming	Tunnel **TBM**	CH	2003	AVH 71.25.2.8	4
Persia	Exhibition	IR	2003	AVH90.75/25.2/4.8	1
Construtora Odebrecht	Caraccas Metro **TBM**	VE	2003	AVH100.75/25.2/4.8	2
Gammon-Skanska	Nam Wan tunnel	HK	2003	AVH160.160.4.10	4
Song Da	Hai Van Pass	VN	2002	AVH 63.11.2.8	2
Subterra	Perry Oaks Tunnel	GB	2002	AVH 71.18.2.8	6
Song Da No 10	Tunnel	VN	2002	AVH 63.9.2.8	2
Nishimatsu-Cementation-Skanska	CTRL 220 **TBM**	GB	2002	4AVH 125.110	2
Aneka Tambang	Mine	ID	2002	AVH 71.37.2.8	9

Penta Ocean	Singapore Metro **TBM**	SG	2002	AVH71.22.2.8	1
Customer	**Project**	**Country**	**Year**	**Delivered fan type**	**Qty**
WH-STEC-NCC JV	Singapore Metro **TBM**	SG	2002	AVH90.75/25.2/4.8	2
JTMA Co	Water tunnel	IR	2002	2AVH90.45/.2/4.8	2
SOMINCOR	Mine	PT	2002	AVH90.90.2.8	2
Veidekke	Tunnel	NO	2002	AVH160.200.4.10	2
Semb Corp	Mandai Quarry (2)	SG	2002	AVH160.132.4.8	2
J/V Phil-Aarslef		SE	2002	AVH 125.90/22	1
Veidekke	Tunnel	NO	2001	AVH 90.75.2.8	1
Odebrecht	Caraccas Metro **TBM**	VE	2001	AVH 60.7.2.8	1
Semb Corp		SG	2001	AVH 160.132.4.8	2
Bilfinger + Berger	Ping Lin **TBM**	TW	2001	AVH 180.200.4.10	3
Bilfinger + Berger	Ping Lin **TBM**	DE	2001	AVH 180.200.4.10	4
J. Murphy & Sons	London cable tunnel	GB	2001	AVH 90.45/11.2/4.8	12
J. Murphy & Sons	London cable tunnel	GB	2001	AVH 71.22/5.2/4.8	3
Skanska	Tunnel	SE	2001	AVH 90.75/22	4
Beralb		AL	2001	AVH 63.5.2.8	2
Semb Corp	Mandai Quarry	SG	2001	AVH 160.132.4.8	6
Semb Corp	Mandai Quarry	SG	2001	AVH 112.22.4.8	4
W&F, ECON CEH J/V	Singapore Metro **TBM**	SG	2000	AVH 90.110.2.8	2
Sezai Turkes Fevzi		PK	2000	AVH 71.18.2.8	4
Dragages	Kwai Tsing Tunnel	HK	2000	AVH 125.75.4.8	2
NCC Intenational	Ningbo	CH	2000	AVH 180.355.4.10	4
Cavet	Ginori Tunnel **TBM**	IT	2000	AVH 125.110.4.8	3
PT Aneka Tambang Tbk	Mine	ID	2000	AVH 71.37.2.8	14
Bilfinger Berger		TW	2000	AVH 160.200.4.8	3
			2000	AVH 71	1
			2000	AVH 90	1
Tara Mines	Mine	IE	2000		2
Peabody / EROC	Mine	AU	2000	AVH100.110/27.2/4	5
			2000	AVH 125 Beg	1
Tara Mines	Mine	IE	2000	AVH 125.90/22.4/8.	3
Atlas Copco North Korea		KP	2000	AVH 63.9.2.8	2
Penta Ocean	DTSS T-02 **TBM**	SG	2000	AVH 90.55/14.2/4.8	2
Cavet	Bologna-Firenze Rail	IT	2000	AVH 160.132	4
Cavet	Bologna-Firenze Rail	IT	2000	AVH 160.160	6
Comet	Copenhagen Metro	DK	2000	AVH 90.75/14	4
Öresund Tunnel Contractors	Öresund Link	DK	2000	AVH 125.90/22	8
Astaldi-ICE	Misicuni **TBM**	BO	2000	AVH 71.24	8
Skanska	Kukule Ganga, Sri Lanka	LK	2000	AVH125.110/27	13
LKAB	Mine	SE	2000	AVH 90.75/14	2
Skanska	Hallandsas	SE	2000	AVH 125.90/22	3
Skanska	Tunnel	SE	2000	AVH 90.75/18	4
Tara Mines	Mine	IE	1998-2000	AVH 125.90/22	6
Kumagai Gumi, KSMJV		SG	1999	AVH 90.90/22	4
Selmer		NO	1999	AVH 160.160/40	1
CNO Odebrecht	La Miel	PE+CO	1999	AVH 125.90/22	6
Selmer	Södra Länken Stockholm	SE	1999	AVH 160.132	5
Selmer	Södra Länken Stockholm	SE	1999	AVH 125.110	3
Boliden	Mine	SE	1996-1999	AVH 90.75/14	11
Boliden	Mine	SE	1999	AVH 90.110/27	1
DSA		IT	1999	AVH 100.30	2
TCH, Philip Holzmann		NL	1999	AVH 90.55/13	1

Boliden	Mine	SE	1999-2002	AVH 125.90/22	9
Boliden	Mine	SE	1996-1999	AVM 90.37/8	24
LKAB	Mine	SE	1998-1999	AVH 90.45	4
Wan Long. J/V	Wanjiazhai water tunnel **TBM**	CH	1998	AVH 100.110	6
Wan Long. J/V	Wanjiazhai water tunnel **TBM**	CH	1998	AVH 90.90	4
Wan Long. J/V	Wanjiazhai water tunnel **TBM**	CH	1998	AVH 100.90	2
Wan Long. J/V	Wanjiazhai water tunnel **TBM**	CH	1998	AVH 90.37	1
Jinro Const	Renun	KR	1998	AVH 90.75	3
Jinro Const	Renun	KR	1998	AVH 63.18	4
Skanska	Tunnel	SE	1998	AVH 90.45	2
LKAB	Mine	SE	1998	AVH 112.30	9
LKAB	Mine	SE	1998	AVM 90.37/8	3
Italthai	Mae Moh water tunnel	TH	1998	AVH 63.25	4
Italthai	Mae Moh water tunnel	TH	1998	AVH 63.22	3
Italthai	Mae Moh water tunnel	TH	1998	AVH 63.15	3
Italthai	Mae Moh water tunnel	TH	1998	AVH 63.18	1
LKAB	Mine	SE	1998	AVH 90.90	6
Boliden	Mine	SE	1998	AVH 90.90/22	1
LKAB	Mine	SE	1997-1999	AVH 90.90/22	5
Boliden	Mine	SE	1997	AVH 180.250/70	1
PEAB	Tunnel	SE	1997	AVH 125.90/22	2
NCC	Tunnel	SE	1997	AVH 125.90/22	3
Skanska	Tunnel	SE	1997	AVH 90.37	1
Jai Prakash	Nathpa Jahkri HEPP	IN	1997	AVH 100.90/22	6
Boliden	Mine	SE	1996-1997	AVH 125.90/22	6
Banbrytarna	Arlandabanan	SE	1996	AVH 125.90/22	13
PEAB	Tunnel	SE	1996	AVH 90.45/11	1
Kraftbyggarna	Hallandsas **TBM**	SE	1995	AVH 160.160/40	1
Kraftbyggarna	Hallandsas **TBM**	SE	1995	AVH 140.75	1
Boliden	Mine	SE	1995	AVH 71.18	2

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