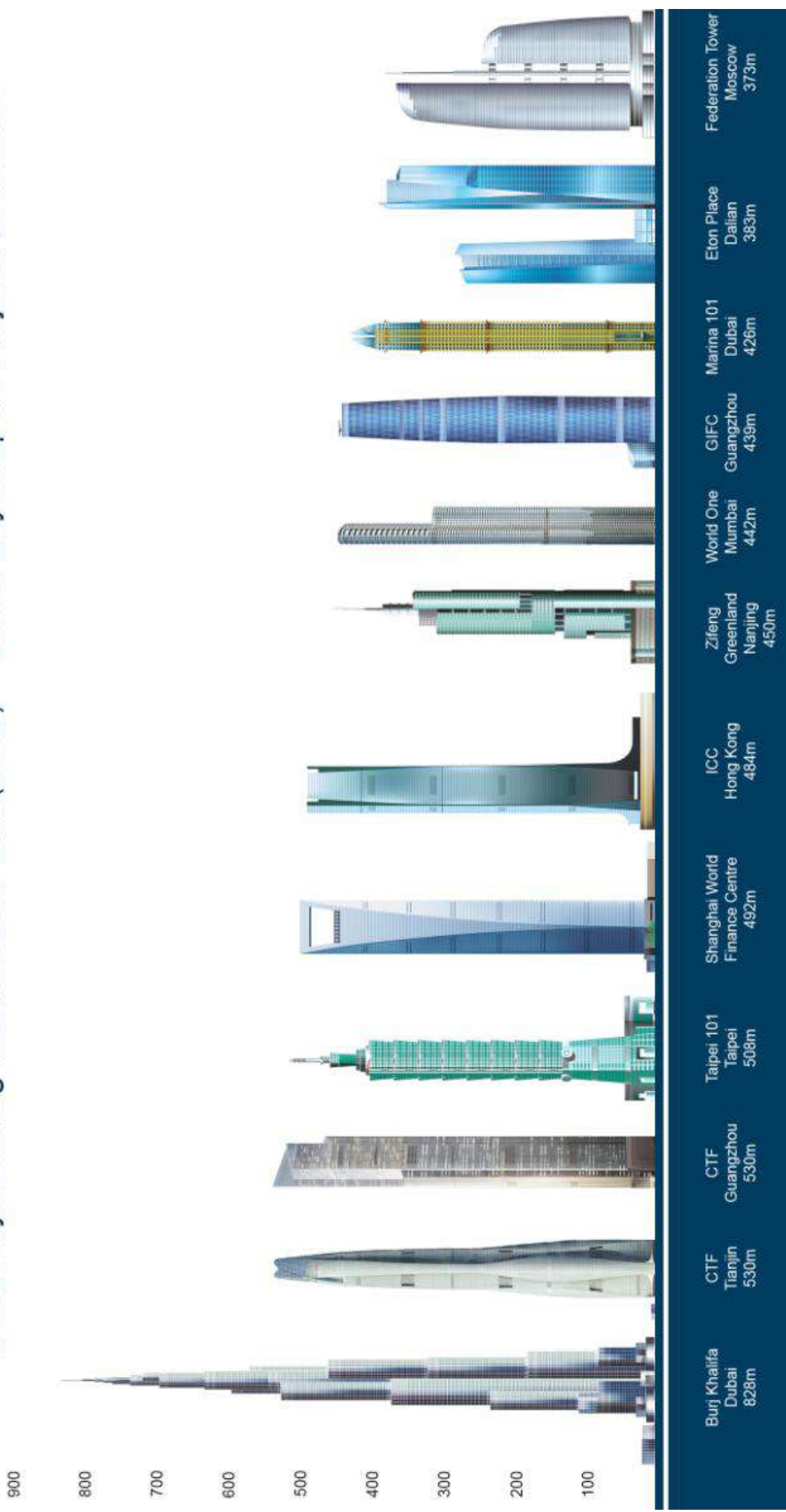


COMPLETED PROJECTS REFERENCE LIST



CoxGomyI Building Maintenance Unit (BMU) – Global Skyscrapers Project References



Building Access Solutions Specialist

Major Project References - Middle East

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www.coxgomyl.com



Mall of Emirates, Dubai



Shoreline Apartments, Palm Island, Dubai



Burj Khalifa, Dubai

UAE - Dubai

Burj Khalifa	828m
Burj Plots (Boulevard Central Towers)	100m
Burj Plots 58/59	
21 st Century Tower	240m
2B+G+14, Al Barsha	53m
3 Towers	
4F DFC Marsa Al Khor	90m
AAM Tower	244m
Airport Hotel - Phase 1 & 2	35m
Al Gurg Tower	90m
Al Jaber Tower	153m
Al Jalila Children's Specialist Hospital	
Al Qassemi Office Block	48m
Al Zubair Building	45m
Ashwin- Monorail	
B+G+4 - Al Qusais	30m
B+G+4, Muhaisna	21m
B+G+6, Al Barsha	27m
B+G+7, Dubai	36m
Burj Dubai Mall	40m
Burj Dubai Podium	30m
Central Market Redevelopment	
Cinema Complex	17m
DIFC 1-6 Building & Atrium	40m
Dubai Festival City Intercontinental	160m
Dubai Festival City Lexus Centre	40m
Dubai International Airport Concourse	
Dubai Int'l Airport Expansion 3-SP500-PK14 T1	
Dubai Internet City	26m
Dubai Mall Fashion Avenue Expansion	

Dubai Marina - North	150m
Dubai Marina - South	150m
Dubai Marina Mall Residential	190m
Dubai Media City	20m
Dubai Metro Jumeirah Carpark	40m
Dubai Metro Red Line	
Dubai Metro Secondary Steel	40m
Etisalat Building at Bur Dubai	
Forensic Science & Criminology @ Al Twar First	
G+9 on Plot 129 - 327, Dr. Mohd Kharbash	
Global Lake View, E1, JLT	136m
Emirates Hills Development	70m
Gold & Silver Towers, JLT	155m
Greenlakes Towers, JLT	149m
High Start Residential Building	
Hilton Jumeirah Beach	55m
Holiday Inn	30m
Hydra 55 Tower 1	158m
Ibis Hotel, Al Barsha	27m
Index Tower	328m
Indigo Tower	140m
Juma Al Majid Hotel & Apartments	42m
Kharbash Port Saeed	45m
Landmark Asset Holding Ltd. - Plot No - D - 001 - 004, Telecom	
Limitless Building	112m
Limitless Offices	72m
Loft Towers	130m
Mall of Emirates	40m
Marina 101	425m
Mashreq Bank	24m

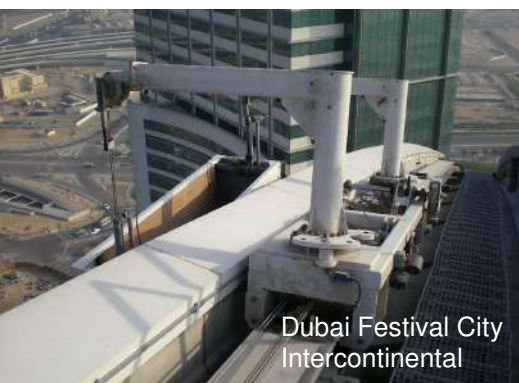
Millennium Airport Hotel Extension	40m
Ministry of Finance & Industry	40m
Mudon Project (Remraam Project)	25m
Plot No. 373-1356, Al Barsha 1st	
Promoseven Tower	58m
Prudential Towers	137m
RDK	
Rhian Hights	
Ritz Carlton	70m
Sabah Twin Towers, JLT	150m
Shoreline Apartments, Palm Island	
SIA Centro Hotel	24m
Silverene Towers	153m
Ski Centre, Mall of the Emirates	85m
Skywalk Towers	72m
The Address - Boulevard Hotel	
The Business Bay Office Tower	112m
W. Avenue Tower @ Dubai Marina Plot 392-467	

UAE - Sharjah

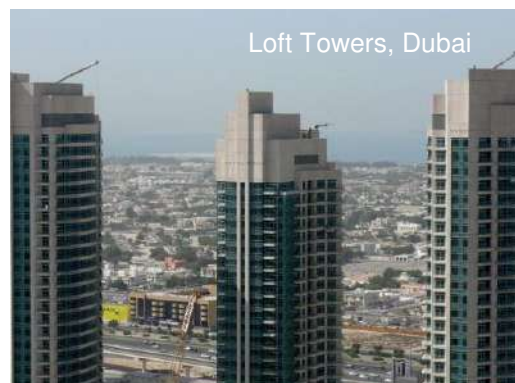
Al Kahan Plot 105/A, 106A GR+2P+7	
Al Khan (G+7)	35m
Al Sari Tower	309m
Centro Hotel Project for Air Arabia	
Future Tower	85m
Juma Al Majid Residential Complex	130m
Lamya Tower	130m
Petrofach Tower I & II	85m
Proposed (GR+2P+7) Building	45m
Residential Tower	152m
Sahara 2	98m
Sahara 3	
Sahara 4	
Sahara 5	
Salah Bukhater	125m

UAE - Abu Dhabi

Abu Dhabi Islamic Bank HQ	
ADIA - Midfield Terminal Complex (AUH Int'l Airport Expansion)	
ADIC	150m
Al Hilal Bank Tower	



Dubai Festival City Intercontinental



Loft Towers, Dubai

Building Access Solutions Specialist

Major Project References - Middle East

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ADIA Tower, Abu Dhabi



Al Qassemi Office Block, Dubai



UAE - Abu Dhabi (cont')

Al Jazeera Tower

Al Madina Police Station (Plot P72, Sector E12)

Al Mafraq Hospital

ADNOC Headquarters 345m

AWQAF Commercial Bldg Zone, W - 4, Plot C8 - C9

Commercial Building, Sector ME- 9, Plot C49

Commercial Building for Mhd Khalfan (Sector E-25, Plot C43)

Commercial Building for Mrs. Mouza Obaid Al Amim on Plot C-19

Grand Continental Flamingo Hotel

Louvre Abu Dhabi

Madinat Zayed Police Station

MohammedAbdul Aziz Rubayea Al Mehairi Hotel E13 C03

New York University Abu Dhabi

Residential on Sector RR2, Plot C14, Najmat

Sheikh Sultan Bin Hamdan Bin Mohammed Al

Sorouh Commercial Building

Nahyan (Sector E18/1, Plot C82) 60m

Abu Dhabi Court house Complex 60m

Abu Dhabi Detainees Building 25m

Abu Dhabi Investment Council (ADIC) 150m

ADIA Tower 185m

ALDAR Headquarters 110m

Al Muneera - Al Raha Beach Dev't 60m

Butti Bin Ahmad Building 100m

Cleveland Clinic 125m

El Mulla Office Building 30m

Gasco & Zadco Towers 93m

Institute of Applied Technology 30m

Rihan Heights Residential Development 134m

Sorbonne University 35m

UAE University 20m

UAE - Ajman

Etisalat 85m

UAE - Al Ain

Investigation and Drugs building

UAE - Fujairah

B+G+10 45m

Azerbaijan

Flame Towers 170m

Bahrain

ABG Tower

BNH Office Building

Four Seasons Hotel 300m

Regency Intercontinental Hotel 50m

India

IL & FS 45m

Ruby Tower 190m

World One 442m

World Crest 222m

Iran

Kish Twin Towers 85m

Iraq

Shary Jwan 110m

Jordan

Le Royal Hotel 105m

Kingdom of Saudi Arabia

Haramain High Speed Rail

Haramain High Speed Rail, Rabigh Station

Haramain Madinah Station Project

Hital Tower

Tadawul 200m

University of Dammam Hospital

Adnan Beach Tower

Business Gate

KAFD Parcel 3.10, 4.03, 4.04, 4.09, 5.01, 5.02

KAFD Parcel 2.05, 2.08, 4.10, 4.11

North Park Office Complex 59m

Al Rashid Tower 45m

Al Suhaili Plaza 60m

Al Rashid 75m

NCB 45m

Princess Noura University 26m

Kuwait

Four Points Sheraton

Al Ahli Bank 40m

Al Jahra Court Complex & Al Farwania

Al Nassar Tower 127m

Al Shurouq 2 100m

Al Rashid Tower 2 70m

Al Wafra 1 & 2 45m

Arraya Centre 130m

Bank of Bahrain & Kuwait 45m

CRC Project 90m

Jaber Mubarak 75m

Kuwait Bahrain Bank 100m

Kuwait National Assembly 35m

KAFD 3.1

Oman

New ATC Tower, Salalah Int'l Airport

MC-5 Development of Salalah Int'l Airport

Touristic & Commercial Complex, Salalah

Pakistan

Citizen Hts, Karachi 42m

Citi View, Karachi 59m

Qatar

Abraj Quartier Pearl

Abraj Quartier Gateway Tower AQ-02

Doha City Centre Phase 2 185m

Doha City Centre Phase 3 185m

Education City BP#1G-E West Car park

Hamad Medical City Phase 2

Jaidah Hotel & Furnished Apartments 112m

Multipurpose Administration Complex Phase 1,

Ras Laffan

Nakilat Ship Repair Yard 35m

Ras Laffan Emergency & Safety College 27m

Ritz Carlton Hotel 75m

Supreme Education Council Headquarters

West Bay Lagoon Hotel 110m

Sri Lanka

Secretariat of Personal Identification

Syria

Yasmeen Rotana Hotel 51m

Building Access Solutions Specialist

Major Project References - Americas, Africa & Oceania



www.coxgomyl.com



Duke Energy Centre, USA



55 Water Street, USA



888 7th Avenue, USA

North America

USA

1 Maritime, San Francisco	150m
30 Hudson, New Jersey	245m
44 Monroe, Phoenix	110m
55 Water Street, NYC	200m
155 North Wacker, Chicago	195m
353 North Clark, Chicago	191m
499 Park	102m
555 Mission St., San Francisco	146m
560 Mission St, San Francisco	128m
605 3rd Avenue, NYC	168m
780 3rd Avenue, NYC	178m
888 7th Avenue, NYC	190m
1099 NY Avenue, Washington DC	50m
1515 Broadway, NYC	227m
Aria Hotel & Casino	
Astor Place, NYC	100m
Broadway 655, San Diego	111m
City Center Convention Center	40m
City Center Vegas (Pelli, Centennial, Vdara)	
Duke Energy Centre, N. Carolina	240m
Goldman Sachs HQ, NYC	228m
Harbor Club Towers, San Diego	137m
Harmon Hotel	175m
Hyatt, 71 South Wacker, Chicago	190m
Mandarin Hotel	165m
Museum Tower, Dallas	173m
One Penn	
PGE—77 Beale, San Francisco	150m
Revel Casino, New Jersey	219m
The Heritage at Millennium, Chicago	194m
University of Puerto, PR	42m
Vdara Hotel & Spa	175m

Veer East Tower	160m
Veer West Tower	160m

Canada

Centennial Place, Calgary	
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Central & South America

Argentina

Banco Galicia	145m
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Brazil

Brookfield Malzoni	90m
Dos Jatobas	35m
Sonda Procworks	30m
Rec Berrini	
TSM	

Mexico

Aicon, Mexico City	110m
Carso City	
Century Plaza	120m
Cervantes Saavedra	80m
Corporativo Insurgentes	
Fundicion Residencial	
Park Plaza 2	85m
Torre Prisma	90m
Torre Skalia	70m
Westin Guadalajara	100m
World Trade Centre	

Uruguay

World Trade Centre	80m
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Oceania

Papua New Guinea

Vulupindi House, Port Moresby	60m
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Africa

Algeria

Palacio de Convenciones de Oran	70m
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Angola

Metropolis	55m
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Kenya

Fedha Plaza	39m
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Libyan Arab

Burl al Bahar	110m
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Madagascar

Galaxy 2	
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Morocco

Maroc Telecom	
Miraflores, Tangier	
Sofitel Casa City	95m

Rwanda

CSR District Commercial Buildings (8 Buildings)	40 - 70m
Kigali Commercial Tower	90m

Sudan

Byblos Bank HQ	56m
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Aicon, Mexico



Sofitel Casa City, Morocco



Palacio de Convenciones de Oran, Algeria

Building Access Solutions Specialist



www.coxgomyl.com

Major Project References - Australia



World Tower, Sydney



Central Plaza One, Brisbane



Eureka Tower Melbourne

Victoria

Orica House, Melbourne (Formerly ICI Hse)	85m
St Vincents Hospital, Melbourne	60m
Westgate Bridge Gantry, Melbourne	85m
Crown Casino Hotel, Melbourne	150m
Rialto (South & North Tower), Melbourne	160 & 250m
Melbourne Central	60m
Nestle Warnambool	50m
Victorian Museum, Melbourne	35m
120 Collins Street, Melbourne	190m
5 Bowen Crescent, Melbourne	65m
University of Melbourne	120m
Melburnian, St Kilda Road, Melbourne	140m
Eureka Tower, Melbourne	303m
11 Exhibition Street, Melbourne	70m
Queen Victoria Residential	133m
BHP Biltion, Melbourne	112m
380 Latrobe Street, Melbourne	72m
ICON 2 Restaurant, Melbourne	20m
MCG Bridge, Melbourne	10m
Yarra's Edge Stage 5, Melbourne	122m
26 Freshwater Place, Melbourne	130m
DHS High Rise Buildings, Melbourne	Varies
Freshwater Residential, Melbourne	200m
Southern Cross East & West Tower	195 & 150m
Herald and Weekly Times, Melbourne	153m
700 Collins Street, Melbourne	70m
AXA, 750 Collins Street, Melbourne	45m
223 William Street, Melbourne	85m
Crown Metropol Hotel	100m
Parkville Neuroscience Building, Melbourne	40m
Zen Apartments, Melbourne	165m
580 St Kilda Road, Melbourne	40m
735 Collins Street, Melbourne	130m

Northern Territory

Alcan Gove, Tank Access	35m
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Queensland

Royal Brisbane Hospital	60m
Goldhill Plaza Hotel, Brisbane	40m
Water Front Place, Brisbane	110m
Park Royal Hotel	72m
Northern Development (Hotel), Sydney	65m
John Maddison Tower, Sydney	70m
Terrica Place, Brisbane	75m
State Law Offices, Brisbane	100m
Central Plaza One	174m
167 Eagle Street, Brisbane	110m
TAB, Queensland	40m
Qantas Hangar, Brisbane	4m
Brisbane Magistrates Court	53m
Green Square North, Brisbane	50m
123 Albert Street, Brisbane	130m
145 Ann Street, King George Central	

Western Australia

Markalinga House, Perth	40m
Perth GPO	100m
240 St Georges Terrace, Perth	110m
100 St Georges Terrace, Perth	100m
111 St George Terrace, Perth	100m
Raine Square, Perth	120m
City Square (125 St Georges Terrace) Perth	220m
Fiona Stanley Hospital, Perth	40m

New South Wales

Piccadilly Plaza, Shdney	150m
Mercantile Mutual, Sydney	40m
Governor Phillip, Sydney	
GMT, Sydney	145m
Sydney Opera House	40m
33 Alfred Street, Sydney	115m
Sega Project, Sydney	40m
Anzac Bridge, Sydney	50m

Henry Deane Park, Sydney	42m
Henry Deane Building, Sydney	35m
40 Miller Street, Sydney	100m
Aurora Place, 88 Phillip St., Sydney	219m
BOC gases, Sydney	85m
2 Park Street, Sydney	240m
383 Kent Street, Sydney	90m
363 George Street, Sydney	120m
Forum Buildings 3, 5 & 6	80 - 100m
60 Castlereagh Street, Sydney	200m
11 Jamison Street, Sydney	90m
400 George Street, Sydney	160m
Travelodge Sydney Central	70m
35 Clarence St, Sydney	65m
Darling Parking Stage 2, NSW	140m
Sydney Mansion	30m
Mercure Hotel Development, Sydney	55m
Sydney GPO - 1 Martin Place	60m
20 Hunter Street	30m
Sydney Harbour Bridge Cranes	55m
Glebe Island Bridge Gantry	40m
ABC Ultimo, Sydney	90m
Rhodes Corporate Park	120m
60 Martin Place, Sydney	120m
World Tower, Sydney	230m
NSW Police Headquarters, Sydney	45m
Lobana House (Rialto Tower), Sydney	140m
Goldfields House, Sydney	110m
Hilton Redevelopment	110m
Southgate Tower, Sydney	90m
The Regent Place (Tower A & B)	155 & 125m
The Zenith Centre Twin Towers	125m
101 George Street, Sydney	45m
Epping - Chatswood Rail Stations, Sydney	30m
St Martin Tower, Sydney	120m
1 Bligh Street, Sydney	110m
85 Castlereagh Street, Sydney	130m



DHS, Melbourne



Goldfields House, Sydney



Sydney Opera House



Kelti Xinyi Building B5, Taiwan

Shanghai World Financial Centre, China

Taipei 101, Taiwan

China

Pang Lin Plaza, Shengzhen	170m
World Trade Centre, Guangzhou	100m
Shun Luen Building, Zhongshan	110m
Guangzhou International, Guangzhou	145m
World Finance Tower, Shanghai	180m
Shen Tong Plaza, Shanghai	115m
Shekou New Times Plaza, Shengzhen	170m
China Insurance Building, Shanghai	201m
Xiamen Bank Centre, Xiamen	120m
Hefei Telecom Building, An Hui	160.4m
Wu Han World Trade Building, Wu Han	224.2m
Wai Gao Qiao Hotel, Shanghai	100m
Jian Ke Functional Centre, Shanghai	100m
Bank of China Tower, Xin Jiang	150m
Far East International Plaza, Shanghai	151.6m
BOCOM Financial Tower, Shanghai	240m
Suzhou International Plaza, Suzhou	100m
4 Seasons Hotel, Shanghai	155m
Jiangxi Publication Building, Jiangxi	125m
Tomorrow Plaza, Shanghai	280m
World Financial Centre, Shanghai	493m
Xian Hi-Tech Int'l Business Centre	202m
Shanghai 21 century tower	211m
Shanghai Shen Da financial center	171m
Shanghai LCHB financial center	162m
Shanghai Yong Xin building I & II	104.8m
Shanghai HP factory building	24.85m
Gui Lin Li Jiang Waterfall hotel	47m
Greenland Financial Complex, Nanjing	450m
China World Trade Center, Beijing	330m
Twin Towers, West Tower, Guangzhou	432m
Pearl River Tower, Guangzhou	309.7m

Leatop Plaza, Guangzhou	302.7m
Hang Lung Plaza, Shenyang	30m

Indonesia

Central Park	60m
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Macau

The Las Vegas Sands Casino	50m
The Venetian Macao Resort Hotel PH5,6	

Malaysia

Cadangan Pembangunan (LKIM)	30m
Komtar Phase 3 (Belle View)	52.35m
Wisma Kewairam	150m
Menara Budaya	140m

Singapore

Reflections at Keppel Bay	120 & 180m
The Rock	72m

NUS - Create	
Marine Bay - Commercial Tower T3	245m
Inchcape House	40m
Goldhill Plaza	125m
Chartered Bank	185m

Taiwan

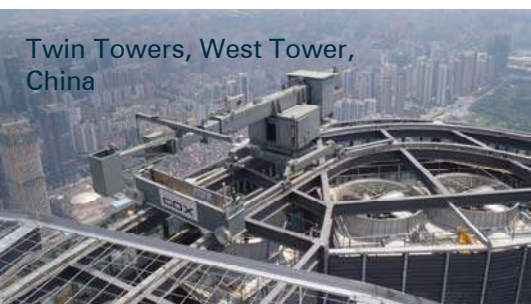
Taipei Financial Centre (Taipei 101)	508m
Kelti Xinyi Building B5	90m
Hsin Yi Building	116m
Grand 50 Tower, Kaohsiung	222m
Chinese Television Station, Taipei	60m
L & M International	140m
Long Bon Statue	110m
IBT	55m

Thailand

Priyapul Tower	150m
Harindhorn Tower	75m
Lake Rajada I	142m
Lake Rajada Tower 2	150m
Thai Military Bank	149m
Bridge View Hotel	95m
Wireless Road Office Bldg	68m
V International Property	100m
The President Park	85m
Makkasan Tower	75m
Berli Jucker	75m
The Promenade	80m
Windsor Hotel	100m
Pacific Place	115m
Muang Thai Patra	130m
Vanit II	130m
Atrium Hotel	40m
Jewelry Trade Centre	240m
Sukhumvit 33	80m
Thai Farmers Bank	220m
Seang Thon Thani	125m
Baiyoke 2	330m
Jasmine International	180m
APT Tower	100m
CAT	120m
IFCT	140m

Vietnam

Omni Saigon Hotel	45m
Saigon Centre	208m



Twin Towers, West Tower, China



Belle View, Malaysia



Hsin Yi Building, Taiwan

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Major Project References - Asia Region (Hong Kong)



www.coxgomyl.com



Harbourside,
Hong Kong



International Commerce Centre,
Hong Kong



International Commerce Centre,
Hong Kong

Hong Kong

73-77 Lei Muk Road, Tsuen Wan	80m
C.I.T.A. Fanling Training Centre, Fanling	60m
37-41 Wellington Street, Central	110m
Jardine House, Central	180m
Jardine House, Central	110m
Bank of China Tower, Central	320m
The Toy House, Canton Road, TST.	120m
Gloucester Tower, Central	150m
Windsor House, Causeway Bay	140m
Bank of East Asia Building, Central	95m
Edinburgh Tower, Central	58m
China Resource Building, Wanchai	180m
Wharf Cable Tower, Tsuen Wan	190m
Tregunter Tower, Mid-Levels	195m
Cigna Tower, Wanchai	90m
Peninsular Hotel Extension, TST.	115m
Emperor Group Centre, Wanchai	115m
MTRC Headquarters, Kowloon Bay	100m
Ramada Hotel, Des Voeux Road West	110m
Shui On Centre, Wanchai	120m
Wing On Department Store, Jordan	80m
Lincoln House, Quarry Bay	115m
Stag Building, Central	50m
Oxford House, Quarry Bay	180m
Regal Airport Hotel, HK Int'l Airport	42m
Starra Hotel, Causeway Bay	110m
HKU Biological Science Building	50m
Cheung Kong Centre, Central	290m
Homantin South – Phase 4	60m
Cineplex Development, Taikoo Shing	45m

Harbor Plaza Metropolis, Hunghom	70m
The Metropolis office tower, Hunghom	80m
Star Crest, Wanchai	125m
High Cliff, 41D Stubb's Rd., Mid-levels	250m
HKU New Medical Complex, Pokfulam	70m
West Rail Headquarters, Kam Tin	50m
The Ellipsis, Happy Valley	130m
HK Electric Headquarter, Mid-levels	45m
Tai Yip Building, Wanchai	130m
Ocean Shores, Tseung Kwan O	20m
MTRC HK Station Entrance Glass Wall	35m
The Pinnacle, 2-20A Minden Ave., TST	140m
St. George Apartment, 81 Waterloo Rd.	130m
Fu Cheong Est., Cheung Sha Wan	20m
Cyberport C1, C1A & C1B, Pokfulam	80m
Lam Tin Estate, Phase 6	20m
St. Teresa Hospital, Kowloon City	60m
Cybercentre, Cyperport, Pokfulam (C214)	30m
Le Meridien Cyberport, Pokfulam	75m
Cambridge House, Quarry Bay	165m
Harbourside, Kowloon Station, TST.	260m
Tung Wah Hospital, Sheung Wan	50m
The Lamma City, 759 Nathan Road	70m
Grosvenor Place, 117 Repulse Bay Rd.	100m
Wing On Centre, Sheung Wan	105m
The Pacifica, Cheung Sha Wan	150m
CUHK, Engineering Complex, Shatin	65m
IFC Podium, Central	35m
Cyberport C6, Pokfulam	70m
55-61 Carnarvon Road, TST	20m
HK Macau Ferry Terminal, Sheung Wan	30m

Hutchison Telecom Tower, Tsing Yi	70m
Pok Oi Hospital, Yuen Long	70m
100QRC, 92-94 Queen's Rd., Central	180m
Bel-Air on the Peak, PH3,4, Cyberport	175m
Bel-Air on the Peak, PH5, Cyberport	175m
China Insurance Group Building, Central	175m
SkyCity Marriott Hotel, HK Int'l Airport	75m
The Cullinan, Kowloon Station, TST.	288m
One Island East, Quarry Bay	308m
International Commerce Centre, TST	490m
Science Park PH2 Area B	50m
CentreStage, 108 Hollywood Road	140m
How Ming Street, Kwun Tong	192m
Sheung Yee Road, Kowloon Bay	188m
High Cliff, Mid-levels (additional BMU)	250m
CUHK Teaching Complex	60m
5-11 Stanley Street, Central	128m
Cyberport, Pokfulam (R514)	189m
30—42 Yiu Wa Street	
Hill Paramount, Shatin	120m
Le Prestige, Tseung Kwan O	230m
Hoi Ping Road	120m
The Latitude, San Po Kong	139m
50—59 Connaught Road Central	133m
30 Mody Road, Tsim Sha Tsui	
350 Tai Hang Road, Causeway Bay	50m
Dragon Seed Building, Central	130m
The Oakhill, Wanchai	190m
53 Stubbs Road, Wanchai	75m
Hoi Fai Road	150m



The Peak Tower,
Hong Kong



New Medical Centre,
Hong Kong



Cyberport,
Hong Kong

Building Access Solutions Specialist

Major Project References - The United Kingdom



www.coxgomyl.com



The Shard, London



Willis HQ, London



Walbrook, London

The United Kingdom

02 Brunel Way, Slough	<40m	Chelsea Bridge Wharf, London	<80m	One Hyde Park Residential, London	<100m
3 Bunhill Row, London	<40m	Chiswick Park Buildings 4,5,8 & 9, London	40m	One New Change, London	38m
6 Broadgate, London	<80m	City Inn Hotel, Leeds	<60m	Palestra, Southwark, London	<60m
8 - 10 Old Jewry, London	<50m	Civil Justice Centre, Cambridge	<60m	Park House, Oxford Street, London	<45m
10 Chiswell Street, London	<50m	Cubitts Yard, Covert Garden, London	<40m	Paternoster SQ, King Edward Court, London	<40m
10 Fenchurch Street, London	<50m	Drapers Gardens, London	<100m	Paternoster SQ, St Martin's Crt., London	<40m
10 Harewood Avenue, London	<50m	Edinburgh Quay, Edinburgh	<50m	Paternoster SQ, Warwick Court, London	<40m
13A Paradise Street, Liverpool 1, Shopping Centre	<40m	Faryners House, London	<40m	Plot 202, No.2 Hardman Street, Manchester	<60m
15 Fetter Lane, London	<50m	Fife College, Kirkcaldy	<40m	Rothschild Bank HQ, St. Swithins Lane, London	<100m
23 Savile Row, London	<40m	Fleetway House, London	<60m	Project Red Rose, Portsmouth	<40m
10 & 30 Eastbourne Terrace, London	<40m	Grant Thornton House, London	<40m	Quay Street (Phase 2), Manchester	<60m
35 - 38 Portman Square, London W1	<50m	Heron Tower, London		Ramada Encore, Gypsy Corner	<50m
51 Lime Street, Willis HQ, London	<120m	Holbrook House, London	<40m	RBS, Card Centre, Southend	<40m
77 Grosvenor Street, London	<50m	Hornsey Regeneration, London	<40m	Residential Apartments, Glasgow Harbor	<60m
100 Victoria Embankment, London		Howick Place, Victoria, London	<40m	Riverbank Park Plaza Hotel, London	<40m
101 Saint Martins Lane, London	<110m	IDA - Dublin	<40m	Ropemaker Place, London	<95m
150 New Bond Street, London	<40m	IMO, 4 Albert Embankment, London	<60m	Royal Alexander Children Hospital, Brighton	<40m
164 Shaftesbury Avenue, London	<40m	IPC Media, London	<120m	Sentinal Point, London	<100m
210 Pentonville Road, London	<40m	John Lewis, Stratford City Shopping Centre, London	<40m	St. Botolph's House, London	<100m
Addenbrookes Hosp, MSCP, Cambridge	<40m	KPHG HQ, Canary Wharf, London	<100m	St. Josephs Hospice, Hackney, London	<40m
Alexander House, Manchester	<50m	Latitude Office Development, Leeds	<80m	The Shard, London	310m
Aragon Tower, Deptford	<100m	Lisson Grove, London	<40m	Tempus Wharf, Bermondsey	<60m
Bankside Buildings 1,2 & 3, London	<60m	Lloyds Chambers, London	<80m	Trellick Tower, London	<100m
BBC Pacific Quay, Scotland	<60m	London Sch. Of Hygiene & Tropical Medicine	<40m	UBS, 3 Finsbury Avenue, London	<60m
Apple HQ, Regent Street, London	<50m	Magistrates Court, Manchester	<50m	UHW Neo Natal Wing, Cardiff	<120m
Barclays Bank HQ, Canary Wharf, London	<120m	Merchant Square, London	<80m	Walbrook, Cannon Street, London	<40m
BskyB Harlequin 1	<60m	New River Village, Hornsey, London	<40m	Walsall College, Walsall	<40m
Castle House, Elephant Castle, London	<120m	No. 1 Old Jewry, London	<50m	White Chapel Art Gallery	<40m
Central Saint Giles, London	<100m				

100 Victoria Embankment, London



St. Botolph's House, London



Central Saint Giles, London



WDR, Germany



M11, France



Granite, France

Austria

Burohochhaus
ORF
Praterstern 3
Uniqa Praterstrasse

35m

Denmark

AB - 6
Neroport
Seb Bank
Viborg Sygeus

Germany

Despa
Media Tower, Cologne
WDR, Koln

110 &
140m
40m

Belgium

AXA
Eurostation
Foncia
Kortrijk
MAS
NMBS
UZ Gent

60m

France

Alfortville
Bime Pasteur
Bnppi
Bnppi Port
Cardinal Lemoine
Carnot Plaza
Copernic 2 - T4
Cour Defense
Eos Generali
ETDE Montigny
Granite
Guipons
H1-B3_EDIF.B3
M11
Montrouge Barbes
NHE
Pointe Metro
Rue Scribe
Villejuif Lot 3

30m

30m

25m

35m

40m

Georgia

Medea Hotel

100m

Holland

Babylon Tower 3 & 5
Business Garden
Carrefour
Diana en Vesta
GGZ
Het Borders
In HollandNKI
KBW
Lanherhuizen
Scheveningseslag, The Hague
Schievest
Sport En Recreative
Twenteborg Ziekenhuis

40m

30m

30m

Bulgaria

Serdika Project

Czech Republic

Brno
HARFA
VCE

55m



Brno, Czech Republic



Twenteborg Ziekenhuis, Holland



Scheveningse Slag, Holland

Building Access Solutions Specialist

Major Project References - Europe



www.coxgomyl.com



Torre Caja Madrid, Spain



Torre Cristal, Spain



Torre Espacio, Spain

Italy

Ferrante Apartti 30m
Museo Milano 30m

Kazakhstan

Kazakhstan Tower 40m
Oil Sector HQ 45m

Portugal

Champalimaud 30m
Torre Colombo occidente

Russia

Federation Tower 243 & 360m
Mercury City Tower 350m
Mirax Plaza 167 & 185m
Udalsovo 45m

Spain

Aeat Pontevedra
Aeropuerto de Fuerteventura
Banco de Espana
Calle Magallanes 3
Despiece de Lineas de Vida
Edif. Aeropuerto del Prat
Edif.ofc.y.serv.poligono Arretxe - Ugalde 20m
Edificio CAC
Edificios de Oficinas Ortiz
Estadio Real Madrid
Garciliano Afonso, 3
Hospital de Paraplejicos de Toledo 25m
Inss de Castellon
Isabel Colbrand, 4
Laboratorios Universidad Autonoma
Las Torres de Madrid
Lineas de Vida Santa Catalina
Luchana, 23
Naves FCC Logistica
Oficina & Aparcamiento T-4D San Chinarro
Parque Empresarial Tactica-paterna
Policlinica 12 de Octubre
Tgss y Inss de Palencia 20m

Trespederne, 29

Torre Caja Madrid 250m
Torre Cristal 250m
Torre Diagonal 00
Torre Espacio 250m
Torre Iberdrola

Switzerland

Ando Building
Bahnhof
Fifty One
France Geneve 35m
KPD 20m
Mobimo Tower
MSC Geneva
Prime Tower Zurich 135m
Sudpark 40m
Swiss Life
Trans Europe Neuchatel 20m

Turkey

Elit Plaza, Istanbul 125m
Nishistanbul 65m
Serdika



Federation Tower, Russia



Nishistanbul, Turkey



Torre Caja Madrid, Spain



1000 SERIES

EASY ACCESS SOLUTIONS

SPECIALIST BUILDING
ACCESS SOLUTIONS

Introducing the CoxGomyl 1000 Range

The CoxGomyl 1000 Series range is designed for use on buildings of low complexity, where the building design can be more flexible to accommodate a relatively standard access solution. When developing concepts using the 1000 Series range, the sales team at CoxGomyl select from a collection of relatively standard equipment, to achieve a simple and economical solution. For more complex access requirements that cannot be solved by using the 1000 Series range, the designers at CoxGomyl can always find a suitable solution within the 5000 Series range and even within the 7000 Series range for unique and highly complicated structures.

The 1000 Series range is divided into two main groups, which in turn, are divided into sub-groups as follows:

1- Systems Based on Travelling BMU Machines on the Roof of the Building:

- a. EC range: Economical choice for a roof machine equipped with a drum hoist
- b. K range: Light-weight roof trolley used in conjunction with a self-powered cradle
- c. U range: Larger roof trolley used in conjunction with a self-powered cradle.

2- Systems Based on Various Types of Roof Rigs and Travelling Gantries:

- a. Monorail range: Economical and simple track-mounted on the outer side of the building
- b. Davit range: Economical rigging arms mainly for isolated areas on the roof
- c. Gantry range: Special access solution for skylights and atriums
- d. Self-powered cradle: A range of self-hoisting platforms to be used in conjunction with the above systems.

The selection keys beside each product are designed to help in the identification of the most suitable product type at a high level, based on machine outreach and general application as criteria. Operational options and movements are also listed to assist in indicating the range of possibilities within the 1000 Series. It is recommended that you consult with a CoxGomyl design expert who can work with you on identifying the optimal solution for your unique requirements.

Travelling BMU's or Roof Cars



Bahnhofplatz Aarau, Switzerland

Selected if:

- The shape of the building or the lifting / cradle requirements are not complex
- Looking for the most economical solution
- Required outreach from the front wheels is 0-3.5m
- Building heights up to 130m.

EC-TYPE: The Economical Short Reach Choice Using a Drum Hoist

The EC Type machines are made from standardised components and are designed to be an economical choice, with reach of up to 3.5 metres. With a well thought out design, EC-type machines are low maintenance and safe to operate.

EC - Machine Features

- Single fixed-length jib, always with jib luffing. This feature is needed to launch the cradle out over the side of the building, and to return it to the roof to allow the operators to exit.
- Generally uses standard cradles.
- Can be offered with a rotating crossbar at the tip of the jib as an option for more manoeuvrability.
- Can be offered with two track types: concrete runway with a guide rail or a twin track type.



Shing Wan Rd, Hong Kong

Selected if:

- The shape of the building or the lifting / cradle requirements are not complex
- Looking for the most economical solution
- Required outreach from the front wheels is 0-3m
- Cradle can be used for other systems installed on the building
- Building heights up to 100m (depending on local regulations).

K-TYPE: The Economical Short Reach Choice Using a Self-powered Cradle

Like the EC, the K Type machines are also made from standardised components and are designed to be an economical choice, with reach of up to 3 metres. The K Type is an ideal choice for applications where the roof of the building does not offer a continuous and levelled runway for a single BMU. In these cases, a multitude of different types of systems need to be deployed. By sharing a common self-powered cradle between the different systems, a significant cost saving for the client is achieved.

K - Machine Features

- Single fixed-length jib, always with jib slewing. This feature is needed to launch the cradle out over the side of the building, and to return it to the roof to allow the operators to exit.
- Generally uses a standard, self-powered cradle.
- Usually offered with a rotating crossbar at the tip of the jib for proper manoeuvrability.
- Can be offered with two track types: concrete runway with a guide rail or a twin track type.



Dubai Mall, Dubai

Selected if:

- The shape of the building or the lifting / cradle requirements are not complex
- Looking for the most economical solution
- Required outreach from the front wheels is 0-10m
- Cradle can be used for other systems installed on the building
- Building heights up to 100m (depending on local regulations).

U-TYPE: The Economical Medium Reach Choice Using a Self-powered Cradle

Like the K Type, the U Type machines are also made from standardised components and are designed to be an economical choice, with reach of up to 10 metres. The U Type has the same selection criteria as the K Type with the extra advantages of having a higher mast, and is therefore able to go over higher parapets with extra reach capability.

U - Machine Features

- Single fixed-length jib, always with jib slewing. This feature is needed to launch the cradle out over the side of the building, and to return it to the roof to allow the operators to exit.
- Generally uses a standard 2 meter self-powered cradle.
- Usually offered with a rotating crossbar at the tip of the jib for extra manoeuvrability.
- Can be offered with two track types: concrete runway with a guide rail or a twin track type, depending on the reach.



Bernabeu Stadium, Madrid

Other Rigs – Monorails, Davits, Gantries

MONORAIL: The Flexible Choice Using a Self-powered Cradle

The monorail system consists of an aluminium track, fixed with steel brackets on the side of the building or underhung in a recess. They can also be used internally for atriums. A choice of manual or motorised trolleys can be used to move a self-powered cradle along the length of the area of the building that needs to be accessed. The monorail system is ideal for buildings that do not allow enough space on the roof slab for a roof-based machine. This system is also ideal where large recesses in building elevations cannot be reached with an approaching system within the 5000 Series.

Monorail - Machine Features

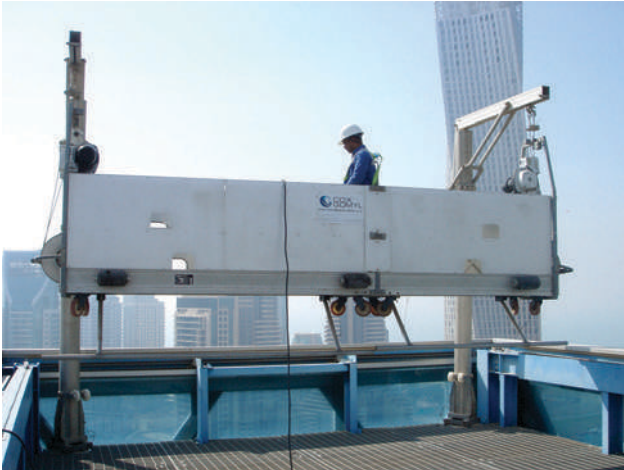
- Horizontal, inclined or vertical track layout.
- Manual or motorised trolleys for horizontal layout, and climbing trolleys for inclined and vertical layouts.
- Track can be bent around corners and in light curves to follow the shape of the building.
- A wide choice of track profiles and bracket shapes are available to cover the building design requirements.
- Used in conjunction with a self-powered cradle.



Dubai Mall, Dubai

Selected if:

- There is not enough space on the roof for a roof-based machine
- Looking for the most economical and flexible solution
- There are no projections in the elevation bigger than 0.5m
- Cradle can be used for other systems installed on the building
- Building heights up to 100m (depending on local regulations).



Dubai Marina, Dubai

Selected if:

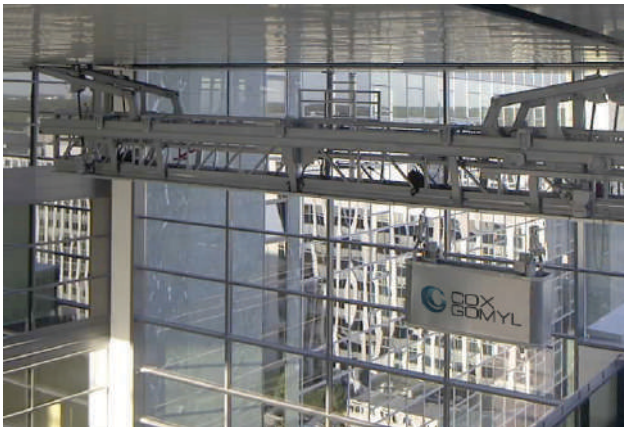
- There is not enough space on the roof for a roof-based machine
- Looking for the most economical solution with no visual impact when not in use
- Maximum reach from centre of base 2.5m
- Cradle can be used for other systems installed on the building
- Building heights up to 100m (depending on local regulations).

DAVIT: The Economical, Most Discrete Choice Using a Self-powered Cradle

Mounted on steel bases on the roof, the davit system consists of aluminium or steel arms that can be dismantled and moved to a different set of bases on the roof to access a different area of the building. Davits are used in conjunction with a self-powered cradle that can go up to 8 metres in length. After use, the davits and the cradle can be stored in dedicated areas so they are out of sight, allowing the whole roof area to be used for other purposes.

Davit - Machine Features

- They can be of aluminium or steel construction.
- Low height davits can be used where the cradle is launched from and parked on ground level.
- High post davits can be used when the cradle is required to park on and launch from the roof level.
- They can be slab mounted or parapet mounted.



Herriots, Frankfurt

GANTRY: The Right Choice for Atriums and Skylights

The gantry system is the best and safest access solution for an atrium or skylight on a low-rise building. It consists of an aluminium or steel truss on the sides with a deck or steps made of galvanized steel grate.

Gantry - Machine Features

- They can be of aluminium or steel construction.
- They travel on steel or aluminium tracks along and around a skylight.
- They can be installed on the inside and outside of the skylight to access both sides of the glass.
- They can be designed in different shapes to match the architecture of the structure: horizontal, inclined, curved, telescopic and cantilevered.
- They can travel manually or electrically.
- If provided with a parking area, they can be hidden from sight when not in use.



Senate of Spain, Madrid

Selected if:

- A roof area that cannot be accessed by operators on foot (not load-bearing)
- A ceiling not accessible from the level below it
- A cone, a dome, a pyramid, or any structural shape above the roof level of a building.

SELF-POWERED CRADLE: The Most Flexible Self-hoisting Mechanism

Also known as the platform, scaffold, cage or gondola, the self-powered cradle is a key component of the 1000 Series, as it can be used with any rigging system conceivable. A rigging system can be as simple as an overhead eye bolt in the ceiling, a davit, a monorail, a gantry, a roof based machine, a crane etc. The advantage of this type of cradle is that a minimum number are required to achieve an acceptable cleaning cycle. Using a self-powered cradle combination with as many rigging systems as are required to cover the building delivers significant savings.

Self-powered Cradle - Machine Features

- They are constructed out of a combination of aluminium and steel.
- They use one, two or three traction hoists to achieve vertical movement.
- They can be of fixed length or modular, with lengths from 1.5m to 12m.
- They can be straight, built at an angle, curved or circular.

Selected if:

- The cradles need to be exchanged between different roof rigs
- Looking for the most economical solution
- Building heights up to 100m (depending on local regulations).



Façade Restraint Options for Self-powered Cradles:

- ISA pins with lanyards
- Soft rope system
- Pull in system
- Mullion guides.

As per most national standards, a cradle needs to be restrained to the façade for heights greater than 40 meters. The choice of restraint type can vary between the above options as per the requirements of the building. For further information you can discuss your needs and application with your CoxGomyl client representative.

CoxGomyl Machines Don't Compromise on Safety

Safety is quite literally at the heart of each 1000 Series BMU component, with multiple standard features to make them as safe and as reliable as possible.

Safety Wire Rope System

On all cradles used in the 1000 Series range, the cradle is supported by two wire ropes for each suspension point. In the unlikely event of a rope failure, the cradle is still suspended horizontally, providing increased safety to the operators.

Traction Hoist

Although the traction hoist requires a little more attention and service frequency compared to a CoxGomyl drum hoist within the 5000 and 7000 Series, it remains a safe, smart and efficient component

in all the applications of the 1000 Series. Traction hoists use friction on the suspension wire rope for vertical movements while the secondary safety rope passes through a safety device, which is automatically activated in the unlikely situation of a rupture or slippage of the suspension rope, thus keeping the cradle safely suspended. All wire ropes come out of the traction hoists to be wound properly on a cable reel on each side of the cradle keeping them away from damage.

In addition, there are a host of other safety devices that help ensure that the whole system performs safely; please talk to your CoxGomyl representative to learn more.

How Can We Help?

Our Services

We take responsibility for producing outstanding building and façade solutions, and as such, are the largest full service provider in the industry. We don't just make machines; we have local experts in engineering, design, project management, implementation, safety and maintenance, to bring a complete, end-to-end spectrum of capabilities to your corner of the globe.

We can offer design consultancy from the start of your project in order to incorporate the latest thinking in building surface maintenance into your building design. Importantly, if done early enough, we can save you money in the long term by designing cost-effective solutions up front, in conjunction with your building design team.

Once the contracts have been let, we can work with you on final drawings and engineering calculations to ensure that all areas of the surface are reached, loads are understood and our project managers are integrating with your teams. From there we go into production and delivery to location, with no site too challenging. CoxGomyl has been involved in thousands of building solutions over the past six decades in over 50 countries around the world.

Our local and regional network of sales offices, project managers, and installation teams will work with you to deliver an installation that is smoothly executed on time and on budget.



Belleview, Malaysia



Mall of the Emirates, Dubai

After installing, we remain available to assist with the servicing and maintenance during the DLP period, as well as offering ongoing full maintenance and service packages. There is a peace of mind that comes from having your long-life capital equipment maintained fully by the manufacturer. It ensures up time, a clean and well-maintained building, lower cost of ownership, and ultimately assists in the delivery of your value proposition with clients and tenants.

If you would like to discuss the 1000 Series further, please contact your regional office (see over for details). **Remember to consult the 5000 Series and 7000 Series brochures if you feel you require a more complex system than outlined within the capabilities of the 1000 Series.**

When dealing with the unique nature of buildings, and such a vast product range, we recommend you consult directly with a CoxGomyl technical advisor, who can assist in developing the optimal solution, with smooth end-to-end planning and execution of your project. We offer a full service spectrum from planning to installation and maintenance, to make your job as simple as possible. As a global leader, our products can be designed to meet your local industry standards such as EN1808 (European), AS1418.13 (Australian), EN1808 (British, replaces BS6037), ASME A120.1 and OSHA1910.66 (American), GB19154.2003 (Chinese), CAN/CSA.Z271.98 (Canada), SS CP 20/1999 (Singapore) or PB.10.518.02 (Russian). See our Design, Project Management and Installation publication for further information.

At CoxGomyl, our team of technical experts, engineers and project managers speak your language, and can combine their skills with yours, to ensure a strategic, economical, practical and safe solution, to keep your building looking exactly as you intend for it to be: immaculate.

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coxgomyl.com





5000 SERIES

BUILDING MAINTENANCE UNITS

SPECIALIST BUILDING
ACCESS SOLUTIONS



This page: Gateway, Sydney

Cover: Bligh St, Sydney

Introducing the CoxGomyl 5000 Range

The CoxGomyl 5000 Series machines are designed for use on buildings of moderate complexity, and offer capabilities beyond that of the standard configurations within the 1000 Series. When developing concepts using the 5000 Series range, the designers at CoxGomyl draw from a collection of standard features and options, to achieve a solution perfectly tailored to the architectural and functional requirements of the building. For the few and even more unique access requirements that can't be solved by the 5000 range, the CoxGomyl technical representatives will be able to put together an integrated customised solution utilising specialised engineering capabilities and componentry from the 7000 Series.

The 5000 series of products are divided into three main groups;

- E range:** Economical choice for low height/complexity
- F range:** Flexible and covers most applications
- G range:** Grand. Very large machines for specialist needs

The selection keys beside each product are designed to help in the identification of the most suitable product type at a high level, based on machine outreach as criteria. Operational options and movements are also listed to assist in indicating the huge range of possibilities within the 5000 series. It is recommended that you consult with a CoxGomyl design expert who can work with you on identifying the optimal solution for your unique requirements.



Medini Dinc, Turkmenistan

When developing concepts using the 5000 Series range, the designers at CoxGomyl draw from a collection of standard features and options, to achieve a solution perfectly tailored to the architectural and functional requirements of the building.

E-TYPE: The Economical Short Reach Choice

The E Type machines are made from standardised components and are designed to be an economical choice, with reach of up to 8 metres. With a well thought out design, E-type machines are low maintenance and safe to operate. There are three main derivatives in the range:

E1 - Machine Features

- Twin fixed-length jibs, always with jib luffing. This feature is needed to launch the cradle out over the side of the building, and to return it to the roof to allow the operators to exit.
- Generally use standard cradles.
- Can be offered with a full range of track types.

Selected if:

- The shape of the building or the lifting / cradle requirements are not complex
- Looking for the most economical solution
- Required outreach from the front wheels is 0-5m
- Building height is up to 60m.



Beale St, San Francisco



Hysan Place, Hong Kong



Zen, Melbourne

E2 - Machine Features

- Single or twin fixed-length jib machine.
- Includes machine slewing as standard, to allow the cradle to be launched and landed.
- Incorporates some form of cradle slewing as standard.
- Can be provided with a full range of cradles.
- Can be offered with a full range of track types.

Selected in preference to an E1 when:

- Building features prevent the machine from launching the cradle directly out in front
- If reduced clear width is available
- Required outreach from the front wheels is 0-5m
- Building height is up to 120m.

E3 - Machine Features

- Single fixed length jib machine.
- Shares most of the features with E2, but can generally achieve the same reach for lower overall machine mass.
- Generally requires less space to operate in.
- Can be provided with a full range of cradles.
- Can be offered with a full range of track types.

Selected if:

- Machine mass is a critical issue
- Less clear roof space is available
- Required outreach from the front wheels is 0-8m.
- Building height is up to 450m.

F-TYPE: The Flexible Choice

Often referred to as 'crane type' BMU, the F-type is used when the reach or suspended load is increased beyond the capabilities of the E-type. Due to their larger mass, F-type machines will generally operate on twin steel rails.

Torre Iberdrola, Bilbao



Medini Dinc, Turkmenistan



World Tower, Sydney



F1 - Machine Features

- The frame housing the hoist is part of the main structural frame of the machine.
- Can be provided with telescoping jib and a full range of cradles.

Selected if:

- There is minimal space at the back for the counterweight
- Required outreach generally in the 5-15m range
- Building height is up to 450m.

Eco Berrini, Sao Paulo



IEC Tower, Haifa



Aicon Tower, Mexico City



F2 - Machine Features

- Mast and Jib design.
- Required outreach generally in the 6-25m range.
- Can be provided with high masts to reach up and over plan rooms or other roof features.
- Can be provided with telescoping / luffing jib and a full range of cradles.
- Can be provided with a fixed, telescopic or pantograph mast.
- Can be provided as a fixed or travelling machine.

Selected if:

- Reach is above 6m with high parapets
- Reach is generally in the 15-25m range
- A lighter solution than the F1 is needed
- Need to climb sloping roofs
- Building height is up to 450m.



One Raffles Place, Singapore

G-TYPE: The Grand Choice



The Walbrook, London

Sharing many of the features of the F-type, the G-type was designed for larger buildings or where a larger reach is required. Typically, G-type machines have a reach of 25 to 50 metres, a wide range of cradles and approaching systems, as well as different climbing options for moving the BMU on pitched surfaces.

G2 - Machine Features

- Mast and Jib design, a larger version of the F2.
- Required outreach generally in the 25-50m range.
- Can be provided with high masts to reach up and over plan rooms or other roof features.
- Can be provided with telescoping / luffing jib and a full range of cradles.
- Can be provided with a fixed, telescopic or pantograph mast.
- Can be provided as a fixed or travelling machine.

Selected if:

- Reach is 25-50m
- Size is not a constraint
- Need to climb sloping roofs
- Building height is up to 500m.

Options Available for 5000 Series BMU's

Depending on your building needs, CoxGomyl BMUs can be modified with different mounting options, parking systems, machine movements, cradles, and façade restraints:

Mounting Options

- Trackless
- Concrete runway and guided angle
- Free standing twin track
- Twin track, cast in bolts
- Vertical parapet mount

Parking Systems

- Pantograph systems (mast lowering)
- Garages
- Pits and lifting tables
- Telescoping (mast lowering)

Cradles

The cradle (also known as the platform, scaffold, cage, or gondola) is the 'basket' in which the operators

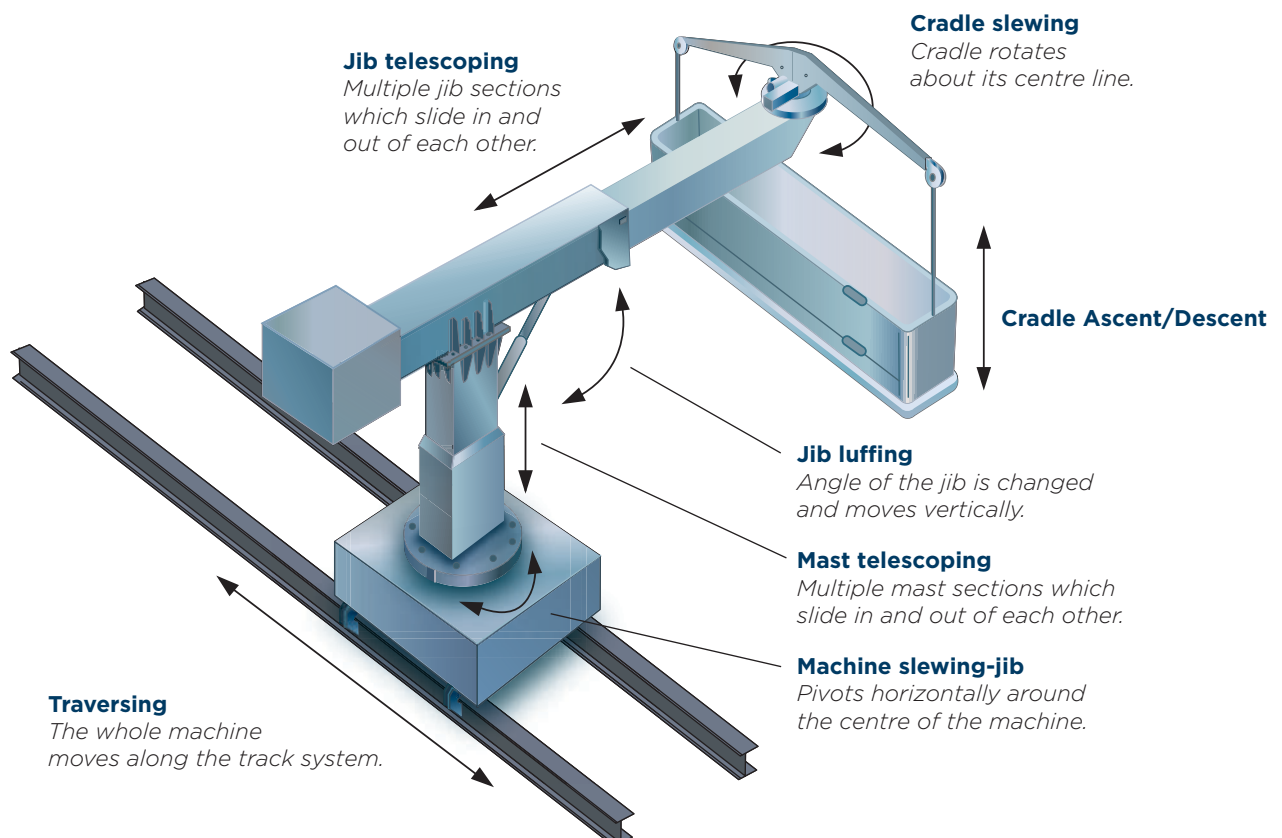
stand to access the façade. Cradle design can vary to match the requirements of the façade. Cradles can be provided in lengths as short as 1.5 metres and as long as 15 metres. They can be wider to provide improved access to small recessed areas in the façade, or can incorporate a range of extendable structures (forward reaching or approaching systems) to allow them to reach into larger recessed areas (up to 6 metres). In order to prevent damage to the façade, a wide range of fixed and adjustable rollers and buffers are available. CoxGomyl cradles can also be specified with a wide range of optional extras.

Façade Restraint Options

- ISA pins with lanyards
- Soft rope system
- Pull in system
- Mullion guides.

These optional features are available for most machines but not all. For further information you can discuss your needs and application with your CoxGomyl client representative.

Machine Movement Options





CoxGomyl Machines

Don't Compromise on Safety

Safety is quite literally at the heart of each 5000 Series BMU, with the hoisting system on all machines including multiple standard features to make them as safe and reliable as possible.

Four Wire Ropes

On all machines in the 5000 series range, the cradle is supported by four wire ropes, two attached to each end of the cradle. In the unlikely event of a rope failure, the cradle is still suspended horizontally, providing increased safety to the operators.

Drum Type Hoist

The four wire ropes are wound onto a load-bearing drum, with the cradle being supported by the tension in the ropes. Typically, hoisting ropes on a drum hoist last in excess of 10 years and at least three times as long as those on traction hoists due to less friction and wear, increasing the reliability and reducing the operating costs of the equipment.

'Hardwired' Control Between Roof Car and Cradle

Control signals are carried between the cradle and the control system in the roof car via copper wires wound into each of the hoisting ropes. This provides a continuous 'hardwired' control link between the roof car and the cradle. As the cradle is not subject to interference, which can happen with radio or magnetic communications, a maximum level of safety is provided to the operators.

In addition, there are a host of other safety devices that help ensure that the machine performs safely:

Standard Safety Devices on All 5000 Machines

- Cradle overload device
- Cradle trip bar
- Jib slew end of travel limit switch
- Cradle emergency retrieval hand wind
- Slack rope device
- Over-speed detector and brake
- Emergency stop
- Residual current device
- Cross bar slew end of travel limits
- Electrical phase failure detector
- Harness attachment points
- Cradle full-up detector
- Lanyard restraint trip bar
- Secondary cradle full-up over travel detector
- Wire rope equalizer

Upgrade / Options

- Motor with electric power limiter
- Luffing upper and lower limit switches
- Drum rope over-wind device
- Drum empty limit switch
- Long travel limit

Safety is quite literally at the heart of each 5000 Series BMU.



How Can We Help?

Our Services

We take responsibility for producing outstanding building and façade solutions, and as such, are the largest full service provider in the industry.

We don't just make machines. We have local experts in engineering, design, project management, implementation, safety and maintenance, to bring a complete "end to end" spectrum of capabilities to your corner of the globe.

From the start of your project we can offer design consultancy, in order to incorporate the latest thinking in building surface maintenance into your building design. Importantly, if done early enough, we can save you money in the long term by designing cost-effective solutions up front, in conjunction with your building design team.

Once the contracts have been let, we can work with you on final drawings and engineering calculations to ensure that all areas of the surface are reached, loads are understood and our project managers are integrating with your teams. From there we go into production and delivery to location, with no site too challenging. CoxGomyl has been involved in thousands of building solutions over the past six decades in over 50 countries around the world.

Our local and regional network of sales offices, project managers, and installation teams will work with you to deliver an installation that is smoothly executed on time and on budget.

After installing, we remain available to assist with the servicing and maintenance during the DLP period, as well as offering ongoing full maintenance and service packages. There is a peace of mind that comes from having your long-life capital equipment maintained fully by the manufacturer. It ensures up time, a clean and well-maintained building, lower cost of ownership, and ultimately assists in the delivery of your value proposition with clients and tenants.



The Latitude, Hong Kong

If you would like to discuss the 5000 Series further, please contact your regional office (see over for details). Remember to consult the 1000 Series and 7000 Series brochures if you feel you require a more standardised or more complex system than outlined within the capabilities of the 5000 series.

With such a vast product range and all buildings being different, we recommend you to consult directly with a CoxGomyl technical advisor, who can assist in developing the optimal solution, the smooth end-to-end planning, and execution of your project. We offer a full-service spectrum from planning to installation and maintenance, to make your job as simple as possible. As a global leader our products can be designed to meet your local industry standards such as EN1808 (European), AS1418.13 (Australian), EN1808 (British, replaces BS6037), ASME A120.1 and OSHA1910.66 (American), GB19154.2003 (Chinese) CAN/CSA.Z271.98 (Canada), SS CP 20/1999 (Singapore) or PB.10.518.02 (Russian). **See our Design, Project Management and Installation publication for further information.**



At CoxGomyl, our team of technical experts, engineers and project managers speak your language, and can combine their skills with yours, to ensure a strategic, economical, practical and safe solution, to keep your building looking exactly as you intend for it to be: immaculate.

One Island East, Hong Kong. Example of glass handling

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7000 SERIES

BUILDING MAINTENANCE UNITS

SPECIALIST BUILDING
ACCESS SOLUTIONS

The Sky's the Limit – Introducing the CoxGomyl 7000 series

Gone are the days where all skyscrapers had square footprints and flat roofs. Advances in construction materials, engineering practices and architectural design means that towers of the 21st century now challenge building convention on a daily basis.

The CoxGomyl 7000 range leverages our wealth of experience in designing integrated solutions for the world's tallest and most complex structures. Designed specifically for use on buildings with façades of high to very high complexity, the series boasts capabilities far beyond that of our standardised ranges for low to medium complexity buildings (such as the 5000 or 1000 Series).

Fully customisable for every unique project, the 7000 Series solutions draws on our ever-expanding library of bespoke façade access systems and machine modules. Each machine we produce is guided by CoxGomyl's core design principles:

Imagination and creativity – Every building has a unique set of features and requirements which require creative, cost-effective solutions.

Systems integration – We work with our clients and leading consultants to integrate the BMU system into the structure with minimal disruption to the architectural form of the building, as well as making sure we achieve access to all facade surfaces.

Quality and service – Designed, manufactured and maintained to the most stringent quality standards, our machines are built to last like the buildings they inhabit.





CoxGomyl Approaches and Specialisations

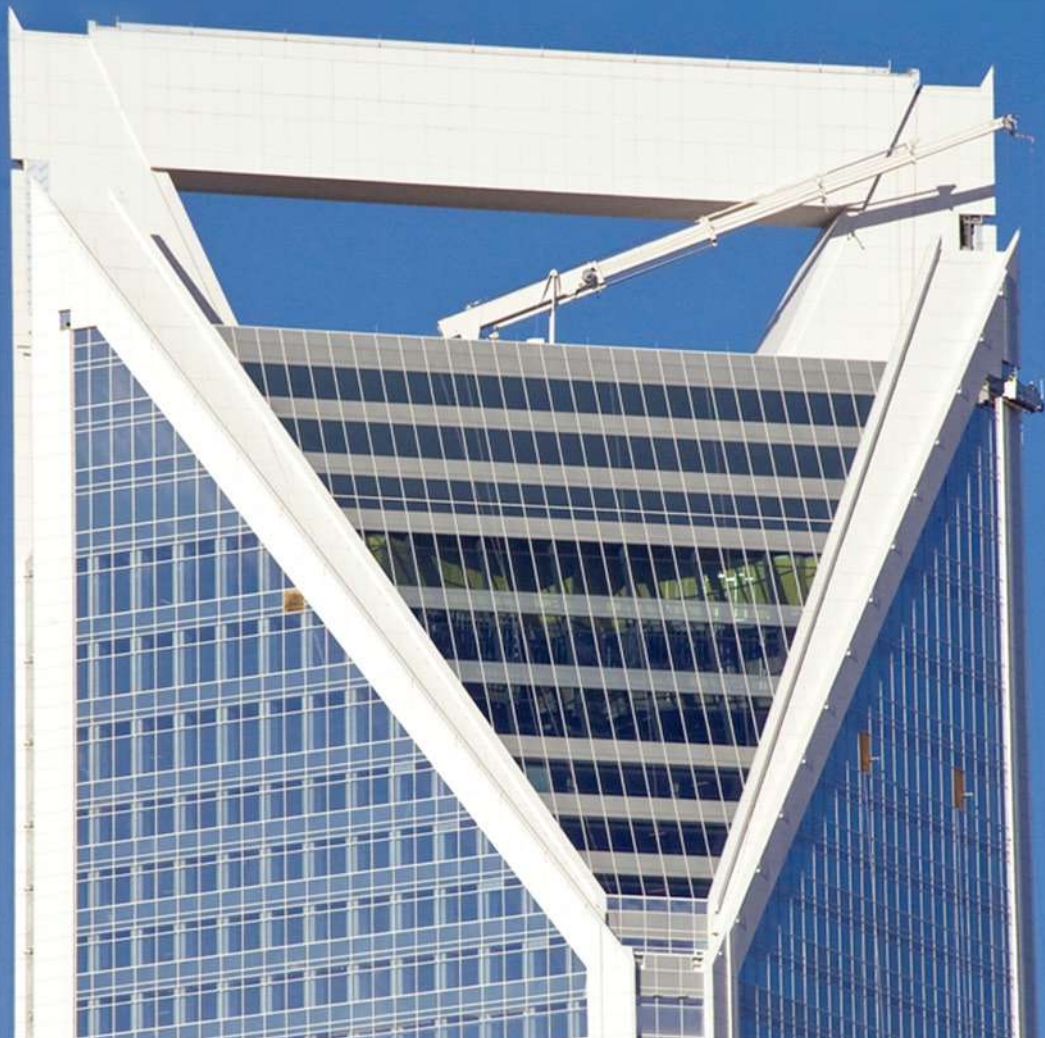


*Above: One Raffles Place, Singapore
This page: Duke Energy Center, USA*

Designers, consultants, constructors or owners are often faced with complicated façade challenges. Whether your building is mega-tall (>600 metres), unusually shaped (such as disc shaped, leaning or spiral plan), or features intricate façades (like protrusions, slopes, recesses or curves), the CoxGomyl designers have a solution. These all make use of CoxGomyl's broad range of expert strategies and methods, such as:

Machine Placement Away From the Edge

Sometimes the BMU has to be located quite some distance from the façade that needs to be accessed. This could be due to a number of reasons, such as building design aesthetic, track placement options or available structural support. In these instances, a long outreach for the BMU is necessary. Typically this is solved by using a multi-stage telescoping jib, which can also compress to a smaller parked footprint. CoxGomyl jib lengths range from a compact 0.5 metres up to a massive 50 metres.





Above & top right: Burj Khalifa, Dubai



*Above: ICC, Hong Kong
Below: Shanghai World Financial Center, Shanghai*

Tackling Mega-Tall Buildings

Because of our extensive experience in working with some of the world's most celebrated buildings, it's not surprising that super- and mega-tall buildings come second nature to CoxGomyl. In fact, we thrive on implementing creative solutions for these structures. For example, the vertical height of a super-tall building might need to be serviced by a single drop BMU with a very large capacity hoist.

When deciding which service method to apply, we consider a variety of factors, such as the design of the roof, cleaning cycle, building footprint, BMU placement options, glass replacement strategies and emergency retrieval plans.

Where the solution requires a large capacity hoist to cover the building from top to bottom, CoxGomyl has worked with several hoists over 500 metres, such as the Shanghai World Financial Center and the International Commerce Centre in Hong Kong. Other mega-talls might be best serviced by a multi-zone approach with combinations of machines, such as deployed on Dubai's Burj Khalifa or the Taipei 101.



Concealing the BMU

After so much has been invested in designing an exceptional building from all conceivable angles, no building owner wants to see a BMU sitting unused on the roofline. The CoxGomyl design engineers can suggest a myriad of solutions to hide the BMU once it is not in service, ensuring that your design aesthetic remains intact.

- **Parking Pits** – The BMU is recessed vertically into the building itself for parking, rendering it invisible. Buildings that use this method include the Reflections project in Singapore, 1 Bligh Street Sydney and the Duke Energy Center in Charlotte, North Carolina.

In some cases the BMU may raise itself up out of the pit for operation (as it does on Reflections), or it may be carried on a separate lifting device, such as a scissor lift (like that of the Duke Energy Center).

- **Parking Garages** – The BMU is driven into a garage for parking with doors that close to conceal the machine. This can be on a roof, or if the building has no roof, into the side of the building itself. Shanghai's World Financial Center utilises garages for the mid-levels, as does The Shard in London, which has eight garages.
- **Integrated into the Building Design** – CoxGomyl engineers upon request can work with the architects to feature the BMU as part of the structure itself. For example, Brisbane's CP1 project, where the apex of the building pivots to become the BMU.
- **Curved Façade Traversing** – Some buildings have little or no roof access, combined with curved façade surfaces. In this instance, the BMU is required to leave the building and traverse horizontally across the curvature, before returning for internal parking. Examples of this method include Dubai's Burj Khalifa and the Pearl River Tower in Guangzhou, China.



1 Bligh St, Sydney – parked in a pit and then erect



Burj Khalifa, Dubai – launching and then out along the rails



Pearl River Tower, Guangzhou – launched



Shanghai World Financial Center – garages

Climbing Difficult Surfaces and Slopes

To minimise the number of BMUs required on a building, CoxGomyl often increases the mobility of the rig. To do this, BMU designers can use tracks as a means of guiding and supporting the BMU, as it travels around the major planes of the building.

Over the last 20 years, CoxGomyl has also developed systems that enable these machines to climb surfaces and uneven pitches with inbuilt self-levelling mechanisms. Depending on the design, these machines may use hoist systems or rack-and-pinion mechanisms to climb various sloping surfaces.

Hoist Systems – These can be used in preference to rack and pinion systems when there are longer distances to travel, curves to negotiate and heavier system masses to deal with. Examples include:

Aldar Headquarters, Abu Dhabi – Climbing the circumference of this disc-shaped building.

Abu Dhabi Investment Authority (ADIA) – Sloping, curved, parapet-mounted track climbing systems.

JP Morgan Building, Sydney – A very large 42-tonne machine with a 26-metre jib climbs a 36-degree glass roof.



Aldar Headquarters, Abu Dhabi



JP Morgan, Sydney

Rack-and-Pinion Systems – Examples include:

Mercury City Tower, Moscow – A system of six machines that climb 45-degree inclines.

Broadway, San Diego.

Parkhouse, London – parked inside the roof line, the system emerges on a lifting table to join the rack and pinion climbing system.



*Above: Mercury City Tower, Moscow
Left: Broadway, San Diego*



Navigating the Jib Through Difficult or Tight Spaces

When it comes to final building roof architecture, CoxGomyl designers often find themselves having to navigate around very crowded spaces.

This might be the result of pre-planned features, such as a visual design extension at the top of the building, like the glass shards at the top of London's 'The Shard', or the steel framing on Singapore's 'Reflections'. It may also be the result of unplanned alterations, such as late changes to roof-mounted heating and ventilation systems.

Utilising smart-logic controllers, CoxGomyl designers are able to program launch sequences so that machines automatically navigate their way out of tight conditions. This programmed approach also reduces cycle times, as well as minimising the risk of collision.



Top: The Shard, London (Top Machine)

This page: Reflections, Singapore, multi-knuckle jib



Torre Caja, Madrid



The Peninsula Hotel, Hong Kong

Manoeuvring Machines Through Negative or Reverse Positions

Working around deep building recesses, shelves and massive overhangs presents a unique set of façade maintenance issues. By assessing the building's access requirements, CoxGomyl can meet these challenges with innovative tailored solutions.

For example, The Torre Caja in Madrid features a sizeable arch on top of the main building, which requires accessing from above. CoxGomyl designers used an articulated jib design to launch from the rooftop and make its way underneath the arch.

Two other examples include the very large soffits of the Venetian Casino in Macau, and The Peninsula Hotel in Hong Kong, which CoxGomyl services through the deployment of upside-mounted BMUs, suspended from tracks in the soffits.



*Above: Xinyi, Taiwan- Approaching System
This page: Torre Espacio, Madrid – Soft Rope system*

Manipulating the Cradles

The cradle, also known as the platform, scaffold, cage, or gondola, performs the primary function of enabling maintenance staff to access the building exterior. CoxGomyl has developed cradle solutions that enable other movements—aside from going up and down—to be performed in order to interface with challenging slopes and recesses. For example, our approaching systems enable the cradles to move forwards into the building in case there are recesses or protrusions that need to be navigated around.

Furthermore, we have a range of soft rope solutions that enable the cradle to move laterally across the face of the building. Combining these technologies with the possibility of slewing, telescoping or detachable cradle pods enables the cradles to move in three dimensions, in conjunction with the machine and jib movements. These movements allow access to almost any surface configuration.



One Island East, Hong Kong

Customising the Cradle

CoxGomyl's standard range of cradles are rectangular in plan, with a depth of 0.7 metres and lengths of between 1.5 and 10 metres. Depending on the building protrusions and local laws regulating number of descents per day, CoxGomyl can also design bespoke cradle solutions to fit unique building architecture. Examples include Hong Kong's One Island East (cranked ends cradle) and Cheung Kong Centre (corner cradle), Melbourne's 120 Collins St (with multiple forward approaching pods), and the University of Melbourne's satellite cradle.



No Structure Too Unusual



Top left: Aldar HQ, Abu Dhabi
 Top right:
 Sydney Harbour Bridge
 Bottom right:
 Sydney Opera House

Throughout our long history, we have solved access solutions for all sorts of unique structures. Whether it is a totally exceptional concept like the disc-shaped Aldar HQ in Abu Dhabi, or the classically beautiful sails of the Sydney Opera House, CoxGomyl have provided bespoke access systems to keep them looking their finest.

Reliability and Experience

You don't get to be the global leader in building access solutions without having something special.

With more than 5000 references installed around the world, project managers have chosen CoxGomyl because of our innovation and quality. When the project is special, unique and highly challenging, CoxGomyl have the solution.





We have also provided external access systems for other built structures. For bridges, we have designed under carriageway access gantries, pylon maintenance systems and arch maintenance systems. We have also developed custom systems for unique structures like Ferris wheels, monuments, and in the case of industrial clients, manufacturing infrastructure.

*Top left: Southern Star Ferris Wheel, Melbourne
Top right: Tank inspection system*

Your building is designed to last for decades, and your maintenance equipment should be capable of going the distance. We stand by our equipment through its entire life: we design it, make it and project manage it, install it and maintain it.

With more than 50 continuous years of experience, you can rely on our knowledge and experience to ensure you get the best solutions for your project.

Your CoxGomyl representative would be happy to explain more about each of these projects or provide specific job sheets if desired.

Zifeng
Greenland
Nanjing
450m

World One
Mumbai
442m

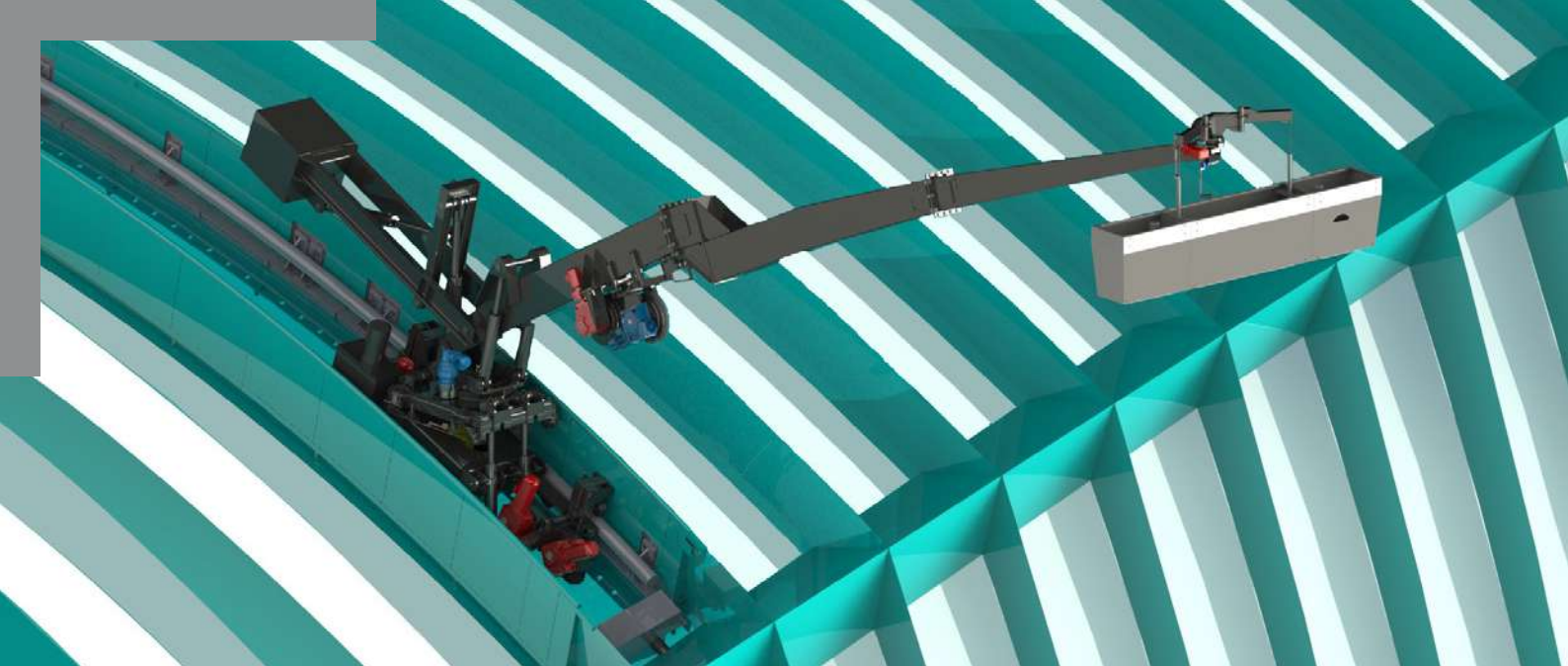
GIFC
Guangzhou
439m

Marina 101
Dubai
426m

Eton Place
Dalian
383m

Federation Tower
Moscow
373m





20 Fenchurch BIM image

A Leading Approach to Quality and Service

Aside from product features, which help us address your project's unique circumstance, there are many other reasons why CoxGomyl is the vendor of choice for the world's leading developments.

It Starts with the Design

Using our reference library of thousands of successful jobs and sub-assemblies, the CoxGomyl design engineers create solutions tailored to the variables of your project. This includes the structural heights, shape and nature of exterior surfaces, maintenance cycles, building loads, operational safety, roof access, slopes, protrusions and concealment options.

With the latest 3D software installed, we model the interface of our equipment enabling you to integrate solutions into your Building Information Model (BIM). Critical structures are designed using Finite Element Analysis (FEA) to manage stresses, loads and weight optimisation. Our shared challenge is to ensure your work of art maintains its masterpiece status well into the future.

Engineering Standards

Our approach to engineering and design is to produce the most cost-effective solutions that optimally resolve the design parameters without compromising on safety and quality. All CoxGomyl units either meet or exceed the most stringent of international quality and engineering standards. These include:

- Easy and Safe Access – CoxGomyl units are designed with maintenance and servicing in mind. Our engineers utilise the latest 3D modelling and analysis software to create safe, accessible solutions.
- Safety Sensors – A comprehensive range of speed and movement sensors are deployed throughout the systems to prevent accidental overspeed or overloading, to indicate end-of-travel limits, and to monitor power supplies and system levelling.
- Failsafe or Backup Principles – Systems feature multilevel braking for the hoists and for inclined or vertical BMU traversing systems: either three separate braking systems, or two with multiple levels of redundancy.
- Materials Built to Last – Galvanised high-strength steel (primed and painted) and stainless steel are used in our machine construction, with lightweight and extra strong aluminium in the cradles. Our drum hoist technology ensures wire ropes last typically three times as long as traction hoists due to less friction and wear.
- Slew Ring Design – CoxGomyl extra safety margins are far above international standards.
- Emergency Retrieval Principles – These are always a design criteria-never just an optional extra-with CoxGomyl's minimum requirements featuring an ability to lower the cradle to a level where operators can be rescued and provide safe access for maintenance personnel to reach an affected BMU.

CoxGomyl's quality benchmark is further bolstered by the reputation of our key component suppliers, all of whom are world leaders in their fields. We use the leading German brand of gear motors and motor controllers, German hydraulics, Swiss wire ropes and Japanese advanced sensor programmable logic controllers.

Installation and Project Management

With our global network of offices and trained technicians, CoxGomyl has managed the installation process of 7000 projects directly. Regardless of whether your project is in Moscow, London, Chicago, Abu Dhabi or Shanghai, you will deal with us from end to end. **For more information, please see our separate publication on Design, Project Management and Installation Services.**

Maintenance Services

CoxGomyl are available to manage the maintenance servicing of your equipment, ensuring it operates at optimum efficiency throughout its life.

As with all capital goods, inadequate maintenance inevitably results in reducing the life of your asset and increases the risk of failure. For those who have fully maintained their CoxGomyl equipment, however, units that were installed 35 years ago are still working reliably today.

When you choose CoxGomyl, you choose the manufacturer who both designed and produced your equipment, who has access to original equipment spares and who will still be there in thirty years, like your building.

For more information, see our separate publication on Maintenance Services.



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Maintenance Services and Modernisation

SPECIALIST BUILDING
ACCESS SOLUTIONS



At CoxGomyl, we can provide a full range of maintenance services for all of our BMU products, to protect your investment in exterior care, for the life of your building. With taller buildings and larger windows revealing extraordinary views comes the expectation that your clients and tenants are able to enjoy the panoramas they are paying for. Uptime for building maintenance units means fewer complaints to deal with.

BMU Maintenance Services and Modernisation

Fifty years of experience teamed with our position as the industry's leading manufacturer of Building Maintenance Units (BMUs), means we have a deep understanding of required machinery care. With a strong international team of expert BMU technicians qualified across a variety of technical trades, each of our global branches possesses the ability to service and maintain CoxGomyl equipment to the highest standard. Whether your BMU is new, old, running smoothly or experiencing reliability problems, CoxGomyl can tailor a maintenance, repair or modernisation program to ensure your machine is working at its full potential.

We're sure you will agree that when it comes to machinery operating many levels above ground, safety is the highest priority. At CoxGomyl, we don't take shortcuts, and neither should you by choosing the wrong maintenance provider. Our teams comply with all local regulations, procedures, processes and standards.

With thousands of machines installed across 50 countries, we know that every site and machine require a unique plan due to their individual characteristics and local conditions.

BMU Maintenance Services

As your specific set of requirements is unique to you and your equipment, we provide flexible service package options to suit. Your CoxGomyl Account Representative will assist you in finding a tailor-made service package to address your needs. Packages cater to varying levels of service comprehensiveness, in relation to scope, schedule and financials.

The available plans are outlined below:

Comprehensive Maintenance

With a focus on preventative measures, this package is designed to sustain the condition of the equipment during the course of its life. The coverage covers the equipment for service, breakdown, and limited repairs under normal working conditions. This coverage gives our customers precise budgeting provisions as well as streamlined co-ordination and management of the equipment.

Standard Maintenance Agreement

Our standard maintenance schedule is based on a preventative maintenance regime to protect your machinery from unnecessary wear, damage or malfunction. Repairs and call-outs over the course of the agreement sit outside of the standard coverage.

Impromptu Service

CoxGomyl can provide maintenance services for BMUs under certain circumstances on an as-needed basis. You may choose this service for one-off servicing, repairs or condition inspection reports. We believe a long-term, consistent maintenance plan is insurance in itself. Impromptu service is also generally utilised for equipment not inside our portfolio, where equipment can be problematic and our specialised services are requested on a short-term basis.

Comprehensive	Standard Maintenance Agreement	Impromptu Service
Initial condition report and life expectancy review	Initial condition report	
Routine maintenance program tailored to our clients operational requirements and the BMU's condition, including: <ul style="list-style-type: none"> Preventative maintenance schedule Annual Budget forecast report Annual Inspection Annual training session for nominated personnel Annual Hazard identification report Anchor Point Certification & Testing Safety Line Certification & Testing Major Inspection at required intervals 	Routine maintenance program tailored to our clients operational requirements including: <ul style="list-style-type: none"> Preventative maintenance schedule Annual Inspection Annual Budget forecast report Anchor Point Certification & Testing Safety Line Certification & Testing 	Service visit in-line with CG policy and procedures, & Original Equipment Manufacturers specifications.
Call out service inside of Normal Business hours inclusive in coverage	Call out service charged at standard local rates for normal business hours. Surcharge tariff applies for outside of normal business hours call outs.	Call your representative CoxGomyl office for a quotation.
Outside of normal Business hours call out service charged at surcharge tariff rates		
Comprehensive coverage for parts including but not limited to; <ul style="list-style-type: none"> Motors Gearbox's Ropes Hydraulic System Limit Switches & sensors Electrical Control Componentry Indicator Lights & Selector Switches 		
<i>A full list of inclusions would be generated for each specific BMU.</i>		



Repairs & Remanufacturing

As with any piece of equipment, time and use can lead to certain items on the BMU becoming worn or damaged. CoxGomyl have detailed records on almost all of the machines built in our 60-year history, and this information can be used to replace or remanufacture worn or damaged BMU components. In many cases, this occurs with non-CoxGomyl machines, where the original equipment manufacturer may no longer exist. Our electrical, mechanical, and structural design teams can work with you to provide a solution to your damaged equipment.



Modernisation Programmes

Is your building still looking like new from outside? Does it compete with the more recent neighbours for tenants? Poorly maintained BMUs mean less uptime in cleaning availability and can lead to dirtier buildings and unsafe conditions for operators. Old equipment can also eat into profit margins through rising repair and energy costs.

If you have had the façade upgraded, your BMU may no longer be the appropriate solution to keep it looking its best. It might be time to look at an investment that can lower operating costs, lower safety risks and improve the look of your building; CoxGomyl can help here. Through evaluating your needs and the condition of your current equipment, our technical teams can assist by preparing a range of alternatives from modernisation to complete replacement.

Additional features can be provided if required:

- Increased cradle capacity
- Improved materials handling capacity
- Glass handling and replacement options
- Options to enable future building upgrades
- Options to enable signage changeover.



Our project management staff can plan with you to execute the works without disruption to the building. With experience with most types of lifting solutions, we can replace your rooftop BMU plant without the need of the original building tower crane. Our strong local capabilities are augmented with a pool of global specialists, depending on the project.

See our Design, Project Management and Installation publication for further information.



Great Minds

In alignment with the CoxGomyl group, our technicians are leaders in their respective fields. With a well-balanced combination of expertise, our service divisions have the skills and experience to troubleshoot and identify problems quickly and efficiently, whether electrical, mechanical or hydraulic.

Our qualified technicians are highly specialised in technical detail, making them a pivotal part of our OEM team. Treating each piece of equipment with the utmost care and respect, our technicians personally board the equipment for performance testing upon completion of each service or upgrade.

Supporting our technical staff in the field is a cutting edge engineering team consisting of mechanical, structural, civil and electrical engineers. As buildings and equipment age, the need for upgrade, repair and refurbishment is always apparent. CoxGomyl engineers are unrivalled in their ability to offer the complete suite of options from service, repair, modification and modernisation, through to complete replacement of your equipment.



Partnering With Peace of Mind

Keeping your building looking immaculate doesn't have to be a stressful ordeal. Working alongside specialist technicians means you can trust that you're receiving best practice, industry-leading advice from a company backed by fifty years of experience. Our safety-first approach means you can rest assured your machinery is constructed with the best quality materials and to the most stringent local quality standards.

All these factors and more mean when working with CoxGomyl, you can enjoy complete peace of mind, and focus on what you do best: running the building.

Whether you're experiencing difficulties, looking for an alternate maintenance supplier or have any general inquiry, our expertise is only a phone call away. We invite you to contact your local branch office and put CoxGomyl to the test.



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Design, Project Management and Installation Services

MAKING YOUR LIFE EASIER
FROM START TO FINISH

In the complex world of construction projects, there are many elements that can influence budgets and schedules. To relieve the stresses of time pressure and design compromises, our expert project management team work with you from the beginning, to implement best-practice access solutions that keep complexity and cost to a minimum.

Engaging with CoxGomyl comes with the peace of mind of knowing that you are working with the world leader, a team of local project experts and a track record of thousands of successful installations over 50 years.

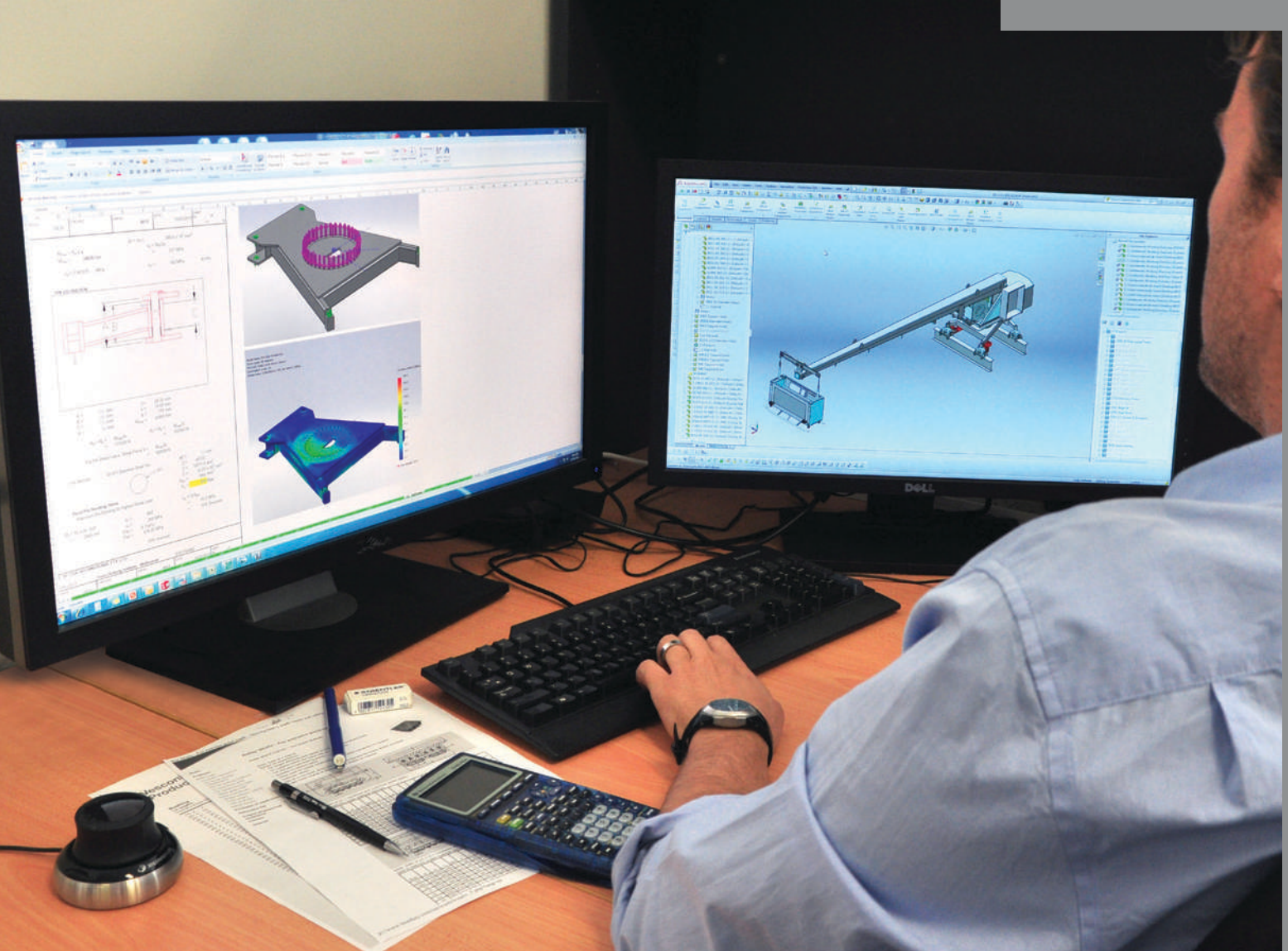


Design

It all starts with design. We employ the industry's largest team of BMU design engineers, practiced in developing safe, functional, cost-effective solutions to even the most complex façade access challenges. Collaborating with architects, consultants, builders and developers, the design engineers develop an integrated solution that delivers the desired access and cleaning cycles, whilst blending seamlessly into the building aesthetic.

Considerations in the design process:

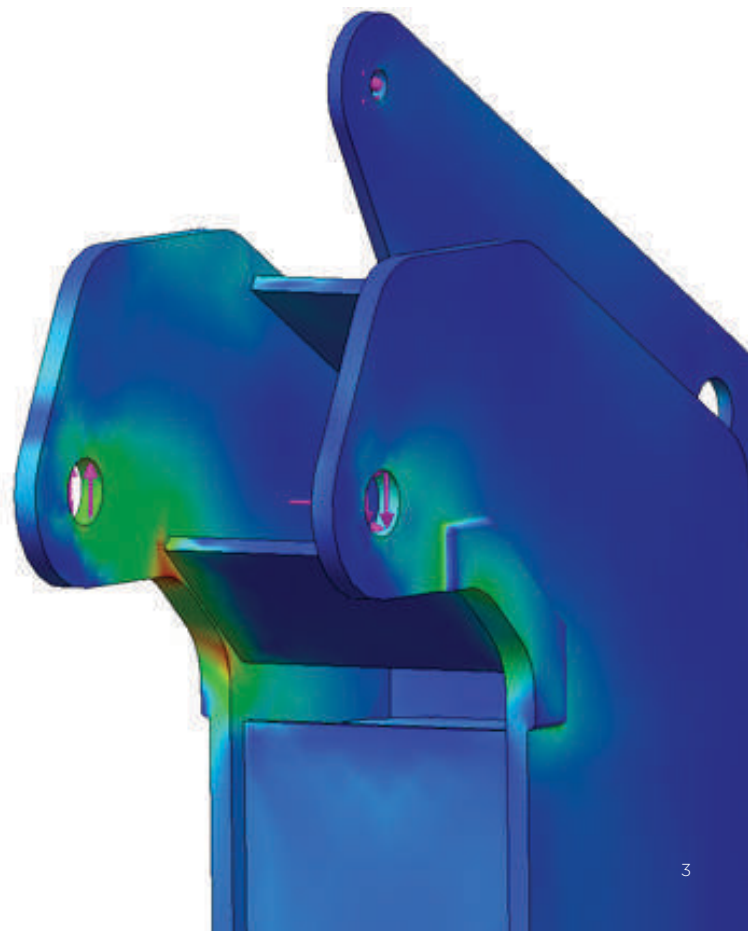
- Heights of building structures
- Number and shape of facades
- Slopes and angles
- Atriums and balconies
- Façade materials and surfaces
- Cleaning cycles by zones
- Roof access
- Building loads
- Concealment of the BMUs
- Operational safety
- Cleaning productivity.



Visualisation

Over the last 50 years, we have compiled a library of over 5000 reference solutions to call upon in the design, manufacture and installation of your unique project. For the more complex solutions our state-of-the-art 3D design software allows you to integrate concepts into your building interface model (BIM) and visualise the final result. This process allows modelling of all surface area access as well as the early identification of any integration issues, preventing later rework, costly variations and time.

In most cases, we can show you or your stakeholders similar examples of previously installed BMU systems and videos to help demonstrate how the solution would work in practical terms.



Project Management

From the start of our relationship, we will appoint a technical representative and project manager to guide you through the project and ensure your needs are met. They will consider elements such as your specifications, engineering calculations, building loads, machine positioning, track connections, and ancillary products in developing an estimate and tender for the optimal solution. Upon award of business, we move quickly to finalise details and timelines regarding approval drawings, manufacture, testing, delivery and installation.

Your project engineer will work closely with you to:

- Tackle design issues and calculations
- Establish track layout and machine positioning
- Develop cradle design
- Plan interface with the structure and façade
- Plan interfaces with other trade packages
- Comply with health and safety requirements
- Meet local industry standards
- Calculate a detailed cost estimation.



The higher the level of involvement of your CoxGomyl team early in the design and building interface stage, the better the efficiency of the solution. Not only does this result in the most cost-effective outcome for you, it dramatically lowers the incidence of building modifications or rework in the latter stages of construction.

When you are completely satisfied with the design, production commences in our modern European manufacturing facility. Prior to delivery, where appropriate, clients are invited to witness the factory acceptance testing to ensure the operating specification has been achieved.



Pre-Delivery

As delivery dates approach, your project manager will help you prepare for a smooth delivery process, including:

- Site access
- Use of existing crane or provision of crane services
- Traffic management and coordination
- Preparation of working area
- Liaising with building site management
- Preparation of garages, track work and machine locations
- Preparation of safe working method statements.

Careful planning will make for an efficient delivery process with the right people on site at the right time, meaning a minimum of material handling and less chance of error or damage.



The Shard, London

Installation

Our specialist team of installers are all trained in CoxGomyl methods and processes, as well as fully inducted in the specific site safety program. Progress reports will be regularly delivered, with all machines fully tested before handover. We will provide operator training and if agreed, make the equipment available for beneficial use during the final stages of construction.

For highly complex projects, a global pool of CoxGomyl technical specialists are available to assist with challenging installations, to ensure stunning architectural masterpieces remain exactly that: stunning.

The Shard, with its 56,000 square metres of glazing, the uppermost panel spanning between levels 94 & 95, and not a BMU in sight when not in use, called for a very special cleaning solution.

CoxGomyl with their global experience and high level of local expertise worked alongside Mace in safely achieving this amazing feat of engineering.

Best regarded for their “can do” approach and total commitment to safety, all 14 BMUs were seamlessly introduced into the structure, working alongside and in total harmony with adjacent trades.

CoxGomyl truly embrace the Mace culture of making safety first second nature

Tony Palgrave
Project Director, Mace Limited



Bligh Street, Sydney

Post-Installation Maintenance Services

We offer a full service spectrum, which includes a comprehensive post-installation maintenance service.

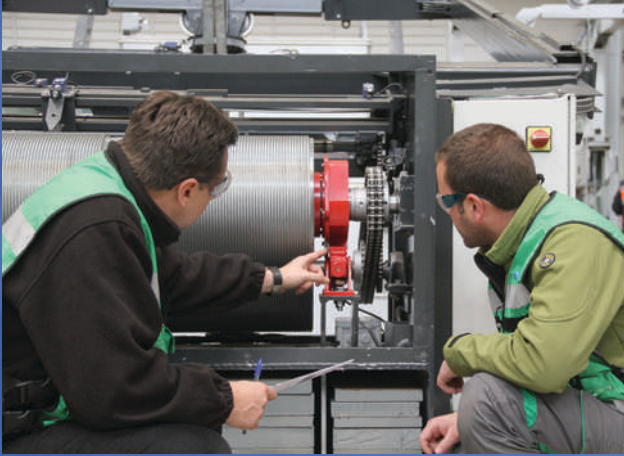
Please request our dedicated Maintenance Services publication for more information on how we can protect your BMU investment and keep your building façade maintained to the highest standard.



Global and Local Industry Standards of Quality

Inbuilt within the Cox Gomyl culture is our passion for quality. Across the globe, local experts possess intimate knowledge of the latest governing access standards used in your country. All CoxGomyl machines are designed, manufactured and tested to ensure compliance with the 2006/12/EC European Directive of Machinery, and for BMUs, the harmonised standard EN1808 (safety requirements on suspended access equipment) as minimums. The CoxGomyl product range can also be designed to meet your local industry standards such as EN1808 (European), AS1418.13 (Australian), EN1808 (British, replaces BS6037), ASME A120.1 and OSHA1910.66 (American), GB19154.2003 (Chinese), CAN/CSA.Z271.98 (Canada), SS CP 20/1999 (Singapore), or PB.10.518.02 (Russian) if required.

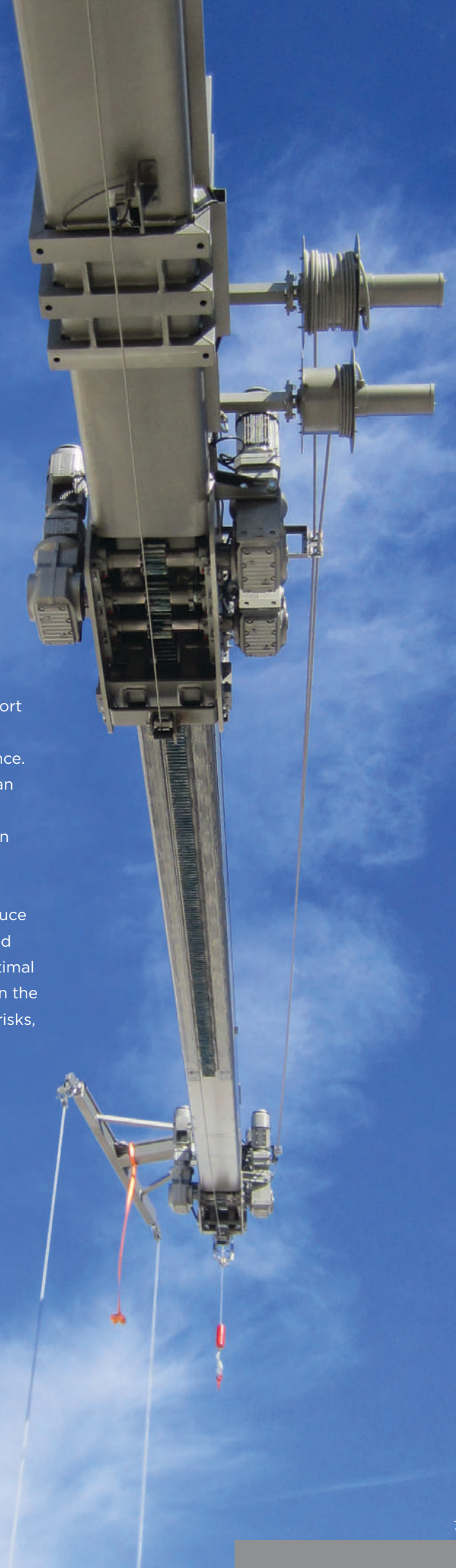
Our production facilities in Spain and our design studios in Spain and Australia are all accredited to the ISO 9001 Quality System, offering you total peace of mind around the quality, safety and compliance of your system.



Reducing Costs and Resources

At CoxGomyl, we have designed our service capabilities to support and assist you throughout the entire BMU value chain; planning, design, manufacture, testing, installation and ongoing maintenance. By working with our local project managers and partners, you can be sure that your BMU implementation project will run smoothly and quickly through the one company, freeing you up to focus on the bigger picture.

Operating in this best-practice integrated fashion, we aim to reduce project risks and to save our clients the time and costs associated with later re-work or expensive variations, by developing the optimal solution right from the beginning. Speak with our experts early in the project planning phase to see how you can reduce your project risks, total costs and eventual building maintenance running costs.



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Corporate Profile

Meet CoxGomyl

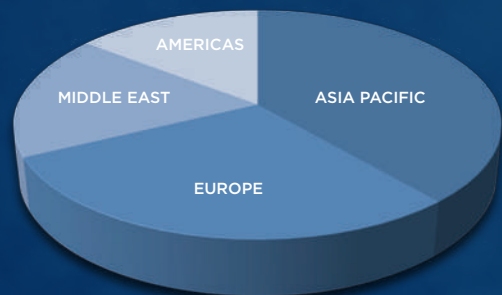


The CoxGomyl Group are a global engineering business with a passion for defending the beauty and value of architectural wonders by providing external building access solutions. Typically this equipment is used to provide a permanent means of being able to access the outside façade of tall buildings for maintenance purposes, which includes cleaning and replacing panels and windows. CoxGomyl have grown to become the global leaders in building maintenance units, commonly referred to as BMUs.

With advances in construction materials, engineering practices and architectural designs, today's buildings are challenging convention on a daily basis.

Rising to the challenge, CoxGomyl are present around the world to provide engineered solutions to architects, consultants, developers, constructors and clients.

Projects by region



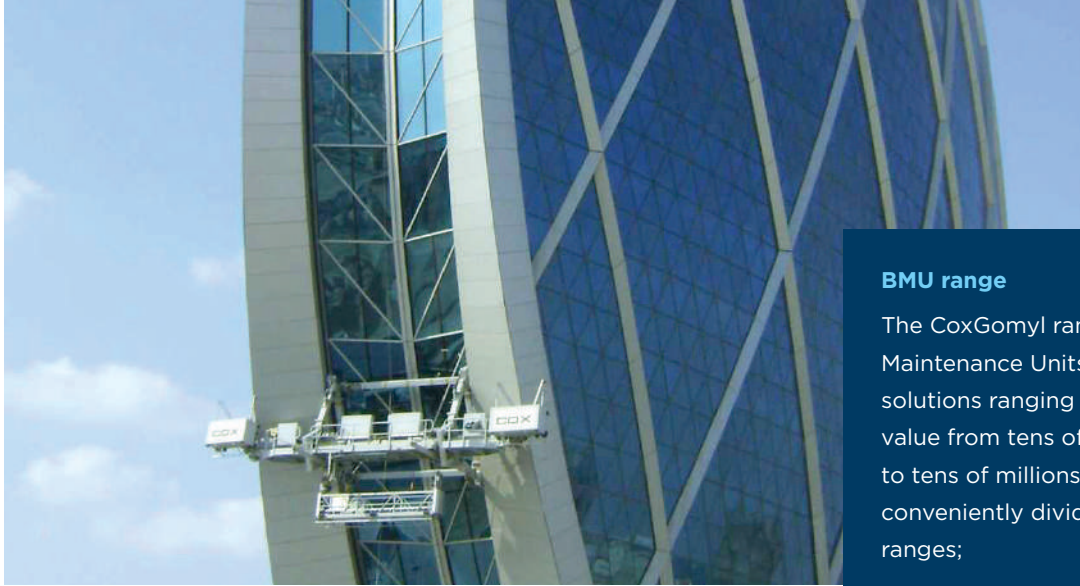
Six Decades in the Making

The origins of the group reach back to 1955 with the commencement of E.W. Cox in Australia. International expansion followed later in the 1980s with the opening of offices in Hong Kong, New York and the Middle East. Now owned by Wolseley Private Equity, our group has expanded dramatically since 2008 with the acquisitions of Gomyl in Spain and Cradle Runways in the UK.

Together they form CoxGomyl, employing over 350 specialists around the world.

We are connected by our global network, with Corporate HQ in Melbourne, design studios in Melbourne and Madrid, modern manufacturing facilities in Madrid, and sales companies in New York, Melbourne, Singapore, Hong Kong, Shanghai, Dubai, Abu Dhabi, Moscow, London and Madrid.





The Heart of the Company: Building Maintenance Units

We take responsibility for producing outstanding building and façade solutions, and as such, are the largest full service provider in the industry. More than just manufacturing, we have local experts in engineering, design, project management, implementation, safety and maintenance, to bring a complete spectrum of capabilities to your corner of the globe.

From the start of your project, we can offer design consultancy in order to incorporate the latest thinking in building surface maintenance into your building design. Importantly, if consulted early enough, we can save you money in the long term by designing cost-effective solutions up front, in conjunction with your building design team.

Once the contracts have been let, we can work with you on final drawings and engineering calculations to ensure that all areas of the surface are reached, loads are understood and our project managers are integrating with your teams. From there we go into production and delivery to location, with no site too challenging. CoxGomyl has been involved in thousands of building solutions over the past six decades in over 50 countries around the world.

Delivering Peace of Mind

Our local and regional network of sales offices, project managers, and installation teams will work with you to deliver a smooth installation on time and on budget.

After installing, we remain available to assist with the servicing and maintenance during the DLP period, as well as offering ongoing full maintenance and service packages. There is a peace of mind that comes from having your long-life capital equipment maintained fully by the original equipment manufacturer. It ensures up time, a clean and well-maintained building, lower cost of ownership, and ultimately assists in the delivery of your value proposition with clients and tenants.

BMU range

The CoxGomyl range of Building Maintenance Units (BMUs) covers solutions ranging in complexity and value from tens of thousands of dollars to tens of millions of dollars and are conveniently divided into three product ranges;

- 1000 Series – The easy access and economical range of self-powered cradles, gantries, monorails and davits.
- 5000 Series – Semi standardised range of BMU machines for low to medium complexity
- 7000 Series – fully customised solutions for the more demanding applications

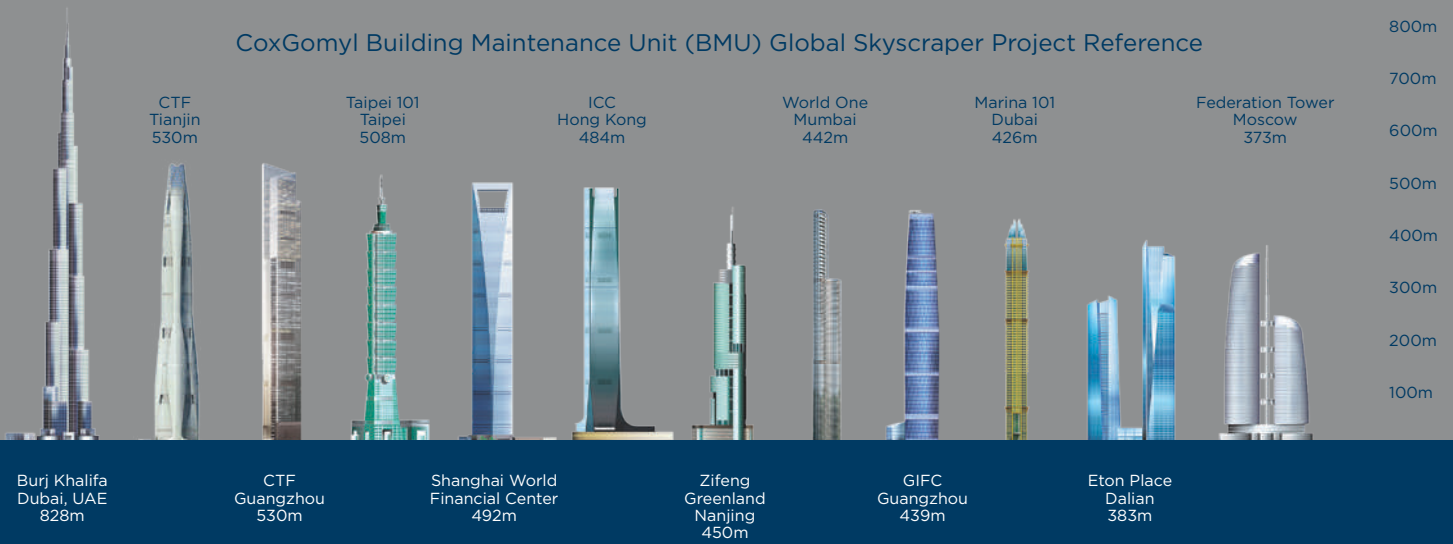
Whether buildings are extra tall (>600m), unusual shapes (disc, leaning, spiral), or complex with intricate protruding, sloped, recessed or curved facades, the CoxGomyl designers have a solution.



Railway Vehicle Access Solutions

Aside from BMUs, CoxGomyl also produce a separate range of access solutions for railway vehicles to enable easy access for maintenance workshops and personnel. (see the separate brochure for more details)

CoxGomyl Building Maintenance Unit (BMU) Global Skyscraper Project Reference



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