Glasgow Cranes: the Japanese Connection

The Scottish Diaspora

Strange abundance of cranes

Some background - how it all started

Some context - what they are and what they do

Celebrating the cranes - the Scottish Ten ☐

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B B C Scotland


CLYDEPORT

UPPER CLYDE SHIPBUILDERS WORK IN, JIMMY REID, 1971

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Royal Commission on the Ancient and Historical Monuments of Scotland

HISTORIC SCOTLAND
ALBA AOSMHOR

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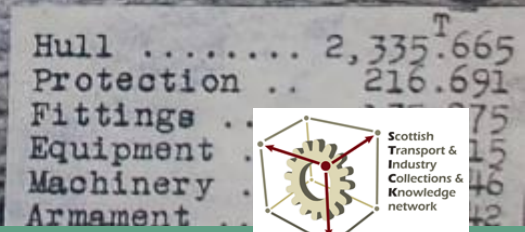

Scottish Transport & Industry Collections & Knowledge network

Dr Miles Oglethorpe, Historic Scotland, Conservation Directorate

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The Scottish Diaspora

Royal Commission on the Ancient and Historical Monuments of Scotland

HISTORIC SCOTLAND
ALBA AOSMHOR

Royal Commission on the Ancient and Historical Monuments of Scotland

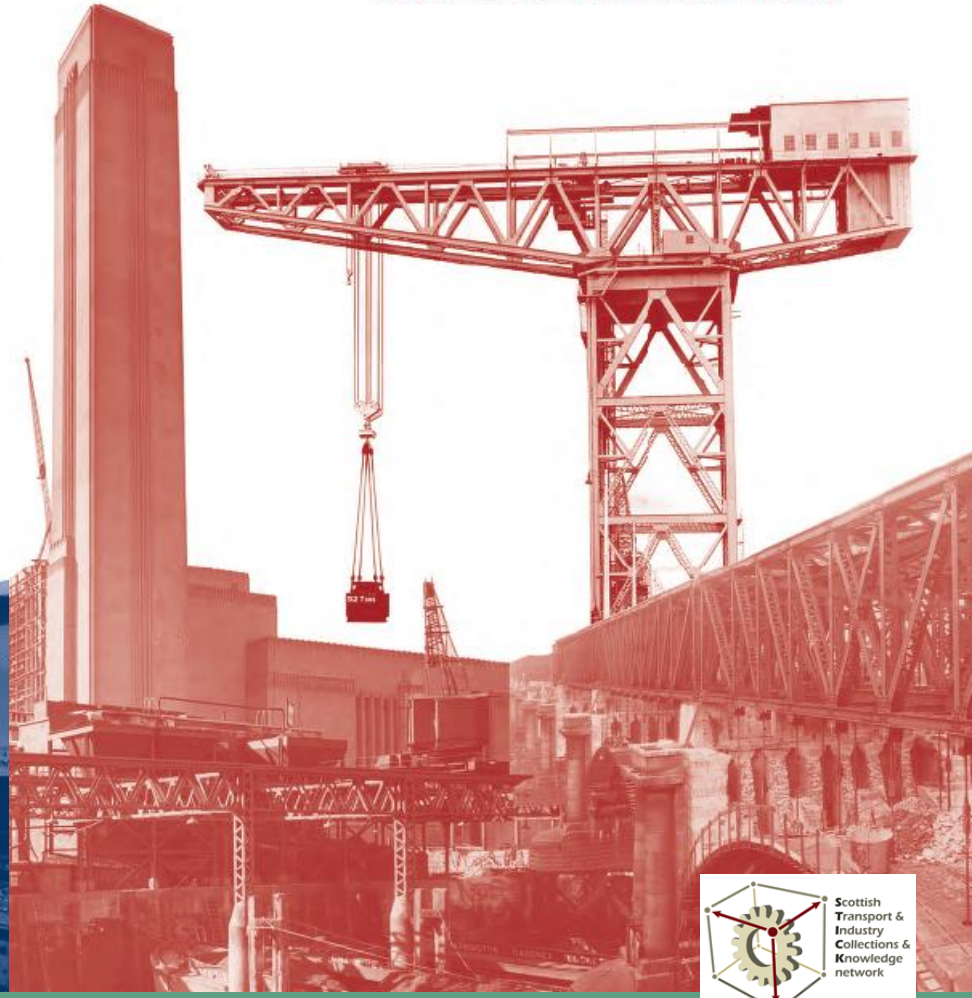
The Sir William Arrol Collection

A Guide to the Scottish Material held in the National Monuments Record of Scotland

Royal Commission on the Ancient and Historical Monuments of Scotland

The Sir William Arrol Collection

A Guide to the International Material held in the National Monuments Record of Scotland



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1927

ARROL CRANES

for

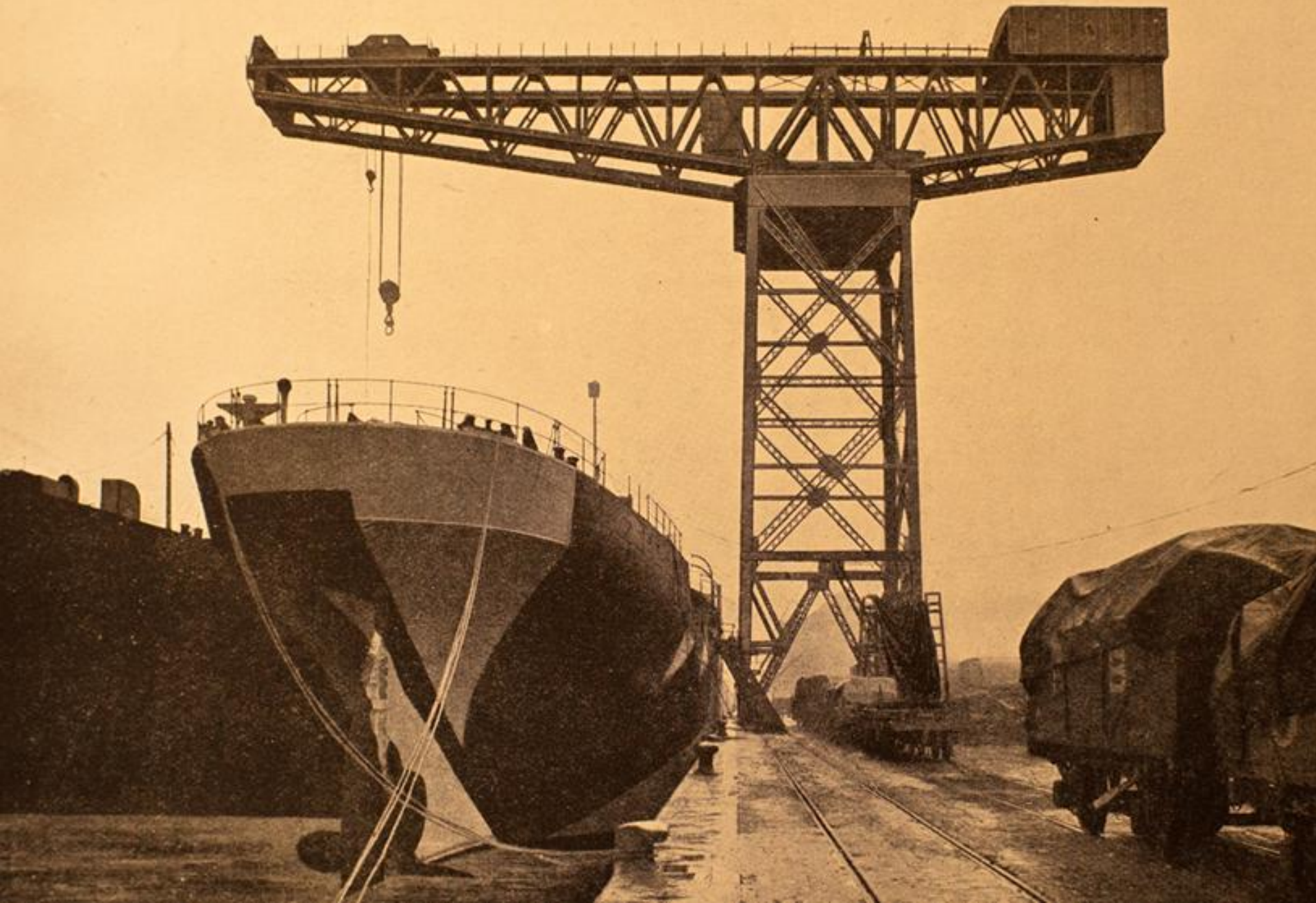
ECONOMICAL LIFTING

SIR WILLIAM ARROL & CO., LTD.
CRANE WORKS • PARKHEAD
GLASGOW

150-Ton Giant Cantilever Crane with Slewing Motion.

The Crane shown above was supplied to the Greenock Harbour Board.

The Cranes shown below are designed for a working load of 100 tons.




FAIRFIELD

Sir William Arrol, 1839-1913

Contents

Notes

1. For a brief introduction to iron and steel, see Gale, WKV, *The British Iron and Steel Industry: a technical history* 1967).
2. The existence of photographs of the new Montrose bridge in the collection is presumably in order to keep a visual note of other companies' projects.
3. See *Sir William Arrol and Company Ltd* (1909).
4. *Ibid.* p 216.
5. Thanks are due to Brian Newman of the University of Newcastle, who has been the principal source of information on Arrol's crane-building operations.
6. See RCAHMS *Catalogue of Scottish Power Collections* (1994). Sir William Arrol and Company were involved in the construction of several of the power stations for which large photographic collections exist in the NMRS Scottish Power Collection.
7. In the post-war period, advances in the design of coal- and oil-fired power station boilers involved their relocation from ground-mounted to suspended positions within power station buildings, necessitating the construction of huge steel supporting frames. The large size of such projects usually required consortia rather than single companies, and in addition to Arrol, examples of other participants included Alex Findlay, Redpath Dorman Long, and Cleveland Bridge Co.

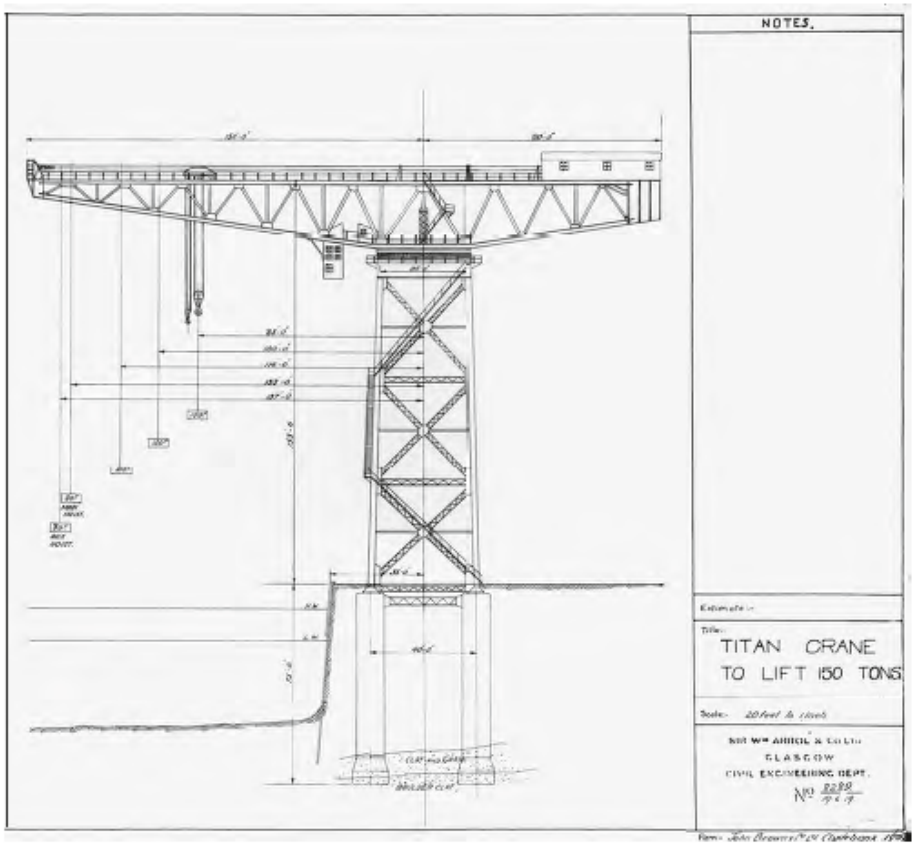


Figure 1: John Brown and Company, Clydebank, 150-ton crane, 1907. This was the first Giant Cantilever crane built by Sir William Arrol and Company.

Plate 10: Rosyth Dockyard. Tugs taking charge after the launch of one of the seven sliding dock caissons designed and built by Arrol for the Admiralty, en route from the construction site at North Queensferry to Rosyth Dockyard, c. 1914. Latterly, the caissons were built at Rosyth because mooring in the River Forth caused obstruction to shipping as wartime river traffic increased (C87142 PO, item 32). In the background, the Forth Railway Bridge, Sir William Arrol and Company's most famous project (1882-1890).

Plate 11: 'HM Dockyard, Rosyth Testing 250 Tons Crane... 5.7.17'. The acquisition of the Parkhead Crane Works in 1910 allowed Arrol not only to design and build such cranes, but also to provide the machinery (C 87038 PO, item 32).

C 87045 PO: 'Lifting old north gate out of place'
d: 22/5/1980
C 87049 PO: 'Stepping north gate (new)'
d: '23/5/80'
C 87042 PO: Crane rigging on site
d: '25/5/80'
C 87052 PO; C 87053 PO/CN - C 87054 PO/CN: Dock gates in place
n.d.
C 87033 PO - C 87034 PO: General view
d: '8/4/80'
C 87037 PO - C 87038 PO; C 87040 PO: General views of gates
d: 1980
C 87035 PO - C 87036 PO; C 87039 PO: north gate
d: '1980'
C 87050 PO - C 87051 PO: north gate (new)
d: '1980'
C 87041 PO; C 87046 PO - C 87048 PO: View of both Dock gates
d: '15/5/80'
Box 21
C 88213 PO - C 88218 PO: Details of ?original lock gates
d: '26/4/79'
C 88206 PO - C 88212 PO; C 88219 PO - C 88228 PO: Details of ?original lock operating mechanism/ hinge
d: '26/4/79' & '2/5/79'

DUNFERMLINE

32. Rosyth, HM Dockyard [Plates 10 and 11]
Fife Council
NT08SE 41 [NT 09 82]
Cranes; Docks

B 90518 PO: 'Carpenters scaffolding erected
d: 10/5/32'
B 90514 PO: 'east approach in foreground'
d: ' 9/5/32'
B 90496 PO: 'General view looking west from Temple Lock, JC Lilley's cofferdam in the foreground
d: 24/1/32'
B 90500 PO: 'General view looking west...'
d: '23/2/32'
B 90510 PO: 'Main steelwork erection complete...
d: 16/4/32'
B 90473 PO - B 90474 PO; B 90481 PO; B 90483 PO - B 90492 PO; B 90499 PO; B 90501 PO; B 90517 PO: ' north abutment...'
d: '23, 25/2/32' & '9/5/32' & '18/11/31' & '21/11/31' & '5/11/31' & '18/9/31'
B 90495 PO: 'north cofferdam and temporary footbridge'
d: '24/1/32'
B 90480 PO: 'north cofferdam piles spliced and excavation proceeding... Reinforcing steel being placed for floor slab in counterweight pit'
d: ' 5/11/31'
B 90465 PO; B 90469 PO - B 90470 PO; B 90472 PO; B 90475 PO - B 90479 PO; B 90526 PO; B 90493 PO: 'south abutment...'
d: '5/10/31' & '18/9/31' & '2/10/31' & '24/6/32' & '21/11/31'
B 90515 PO: 'south approach to bridge under construction'
d: '9/5/32'
B 90505 PO: 'View from north bank showing north abutment and steel erection on south side...
d: 25/3/32'.
B 90494 PO - B 90504 PO: 'Views looking south west..'
d: '21/11/31' & '24 July 1932'
B 90507 PO: 'View of bridge from behind south abutment...
d: 9/4/32'
B 90516 PO: 'west approach and pre-cast yard beyond'
d: '9/5/32'
B 90527 PO: Bridge in open position on completion
d: probably 1932
B 90462 PO: General view (Temple Gasworks, Temple Sawmills and Temple Ironworks in frame) of site before construction
d: '26th May 1931'
B 90463 PO; B 90464 PO; B 90466 PO - B 90467 PO; B 90502 PO - B 90503 PO; B 90511 PO; B 90509 PO; B 90520 PO - B 90522 PO: General views of site
d: '26th May 1931' - '16/4/32'
B 90461 PO: Looking south on east of bridge
d: 26th May 1931
Note: Temple Sawmills are visible in the background
B 90523 PO: Looking south-east
d: '30/5/32'
B 90528 PO: Looking along Bearsden Road and across the Temple Bridge
d: 1930s
B 90512 PO: Looking towards Temple Gasworks
d: '16/4/32'
B 90529 PO, B 90530 PO: Opening ceremony
d: probably 1932
B 90482 PO: Photograph 'showing JC Lilley's operations'
d: '5/11/31'
B 90513 PO: south bank
d: '22/4/32'
B 90519 PO: View over the yards of Temple Sawmills
d: '30/5/32'

71. Glasgow, Castlebank Street Railway Bridge
City of Glasgow Council
NS56NE 205 [NS 558 663]
Railway Bridge
Box 9 [E67]
B 93236 PO - B 93238 PO: 'Castlebank Street Bridge, Partick...Job No. 2057'
d: 'Oct. '67'

72. Glasgow, 18 Clydebrae Street, Govan Graving Docks
City of Glasgow Council
NS56NE 118 [NS 5615 6550]
Graving Docks
Box 12 [J19]
Note: all photographed by W Ralston Ltd, Glasgow
C 88045 PO - C 88046 PO: 'Clyde Navigation Trust' floating out old caisson to make way for Floating Caisson, No.1 Graving Dock, Govan
d: ?1960
Note: dimension of caisson given
C 87149 PO - C 87162 PO: Views of damage, dock no. 2 caisson, 'Clyde Nav. Trust',
d: ?1961
Box 21
C 88241 PO - C 88242 PO: View of dock containing caissons (unidentified)
d: '8 Feb. 1972'

73. Glasgow, Govan, Fairfield Shipyard & Engine Works
City of Glasgow Council
NS56NW 36.0 [NS 548 660]
Shipyard
Box 19 [S23]
C 88089 PO: 'Site of operations Fairfield Shipbuilding Yard. Truck mixed concrete being discharged direct into foundations for your new crane...'
n.d.
C 87921 PO/CN - C 87945 PO/CN: 'Transfer of completed 60/10 ton electric level luffing crane onto permanent tracks. Contract no. ND 10825/000012'
d: ?1970s
Box 20 [S42]
C 88093 PO: Unidentified
n.d.
Note: photographed by Annan, Glasgow?

Plate 18: View from south-south-west across the fitting-out basin of the former Fairfield Shipyard in Glasgow (now Kvaerner Govan), showing the Arrol 220-ton Giant Cantilever crane (built in 1911) (B 41310, 1990, RCAHMS, item 74).

Plate 8: 150-ton Giant Cantilever Crane, Barrow-in-Furness, England [N18]. General view lifting test load of 182.5 tons at maximum radius of 85 feet, 1942. This replaced an earlier crane built by the Glasgow Electric Crane and Hoist Co, which was destroyed in an air raid in May 1941. (NMRS Image No. SC555111).

Plate 9: Giant Cantilever Crane, Walker Shipyard, Newcastle-upon-Tyne, England [N21]. View of crane undergoing testing with 250-ton load, 1931 (NMRS Image No. SC555113).

Plate 10: 250-ton Giant Cantilever Crane, Singapore Harbour [N12]. General view of crane on completion at Singapore, 1938 (NMRS Image No. SC555107).

Plate 11: Giant Cantilever Crane, Sydney, New South Wales, Australia [N5]. General view of crane with Sydney Harbour Bridge in background, 1951 (NMRS Image No. SC555104).

Plate 12: Giant Cantilever Crane, North East Marine Shipyard, Wallsend, England [N22]. View of completed crane with test load of 187 tons, 1909 (NMRS Image No. SC555120).

Plate 13: Giant Cantilever Crane, Wallsend Slipway Engineering Company, England [N24]. General view of crane nearing completion, 1910 (NMRS Image No. SC555127).

Plate 14: Giant Cantilever Crane, H.M Dockyard, Portsmouth, England [N23]. General view of completed crane, 1912 (NMRS Image No. SC555126).

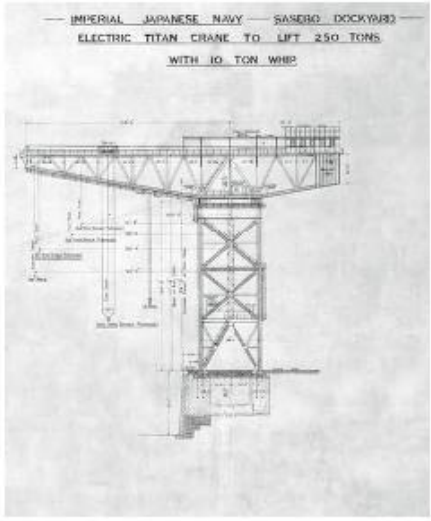


Figure 2: Extract from a general arrangement drawing of the 250-ton giant cantilever crane which was built by Arrol for the Imperial Japanese Navy's Sasebo Dockyard, dated 23 January 1912 [N11]. (NMRS Image No. 565981).

Plate 15: 200-ton Giant Cantilever, Stormont Quay, Belfast, Northern Ireland [N46]. View of the crane nearing completion in July 1958 (NMRS Image No. SC555141).

Glasgow's Cranes: an uplifting legacy

Doors Open Day lecture

Glasgow Building Preservation Trust

Doors Open Day
Glasgow's Built Heritage Festival

Strange abundance of cranes

Some background – how it all started

Some context - what they are and what they do

Celebrating the cranes - the Scottish Ten ☐

Hull ..... 2,335 T 665
Protection .. 216.691
Fittings 175.275

Newcastle University

Historic Scotland
Alba Aosmhor

Dr Brian Newman and Dr Miles Oglethorpe, The Lighthouse, Glasgow, 18th September 2014

Plate 61: 250-ton Giant Cantilever Crane for the Japanese Imperial Dockyard, Sasebo [N11]. View of the crane jib assembled outside Arrol's Parkhead Works, Rigby Street, Glasgow in 1912. The Japanese clients can be seen inspecting the work on top of the jib (NMRS Image No. SC555100). See also Figure 2.

JAPAN

Nagasaki, Mitsubishi Dockyard, 300-ton Giant Cantilever Crane
Crane, Giant Cantilever, 1912
DC27750: General arrangement drawing, dated 1912. If built, this would have had the largest lifting capacity of any giant cantilever crane. It is, however, not certain if it was ever built. Mitsubishi did, however, have a smaller giant cantilever crane built by the Glasgow Electric Crane & Hoist Co.
Drawings Collection

Sasebo, Imperial Japanese Navy Dockyard, Crane [N11] (Plate 61 and Figure 2)
Crane, Giant Cantilever, 1912
DC27749: General arrangement drawing, dated 23 January 1912.
E89774/PO-E89777/PO
4 images: views the roller path and jib assembled at Arrol's Parkhead Crane Works, Glasgow prior to dispatch to Japan.
Box 43, and Drawings Collection

LESOTHO

Tsoeliki Suspension Bridge [F29] (Plates 62 and 63)
Bridge, Road, 1930
C88723/PO-C88726/PO
4 images: views include pieces of the bridge assembled outside Arrol's Dalmarnock Iron Works in Glasgow, and aerial views of the bridge following completion on site.
Box 26

MALTA

Grand Harbour, Hydraulic Rivetting Machine [R62]
Machinery, machine tool (rivetter) for Admiralty Dockyard, 1956
E90116/PO
1 image: view of the hydraulic rivetting machine at Arrol's works, Glasgow.
Box 46

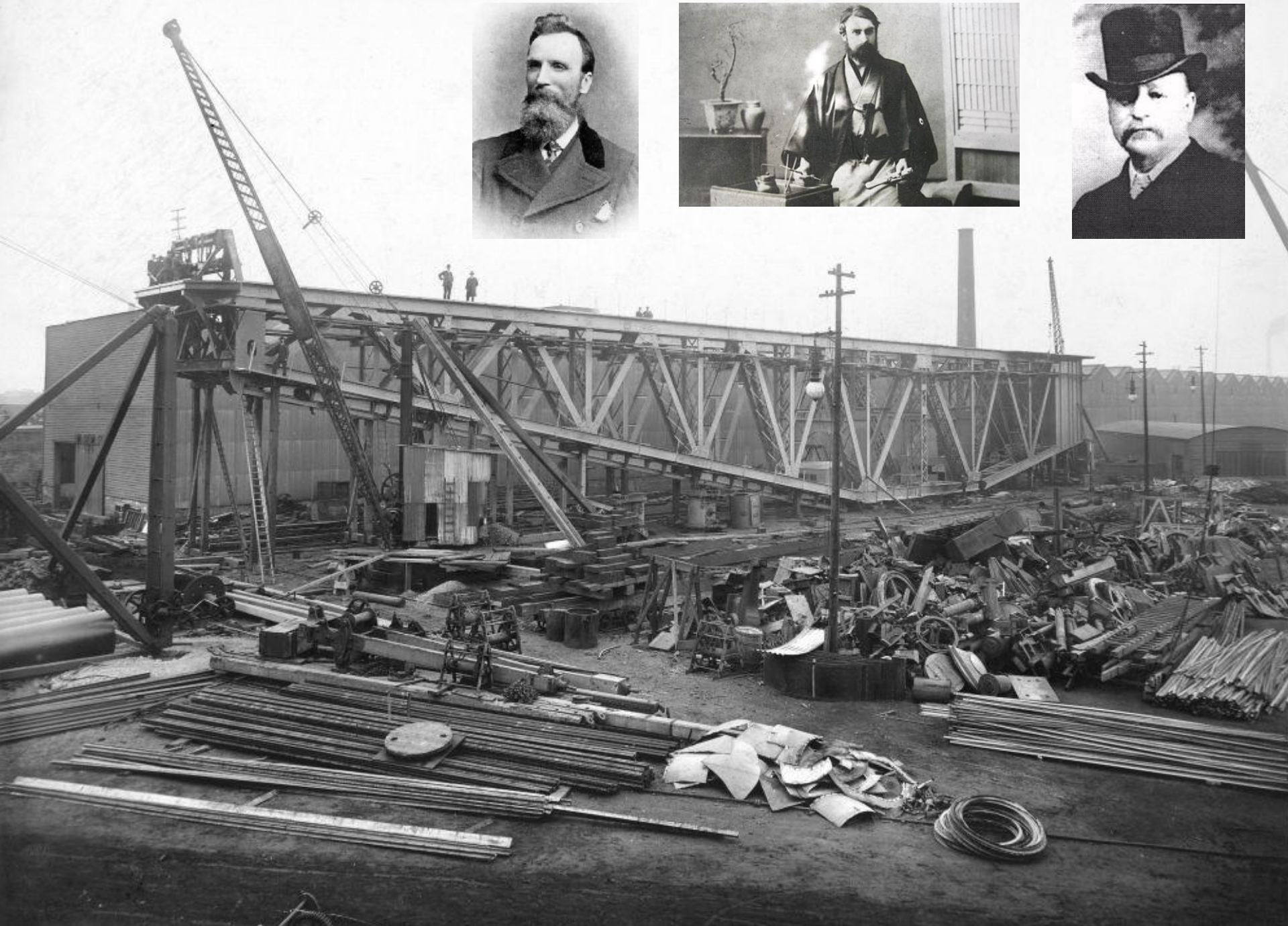
MYANMAR (BURMA)

Burma Railways, Bridges
Bridge, Railway, 1947
D65436-8: Copy negatives of drawings showing details of steel trusses
3 copy-negatives of drawings
Negative Store

NEPAL

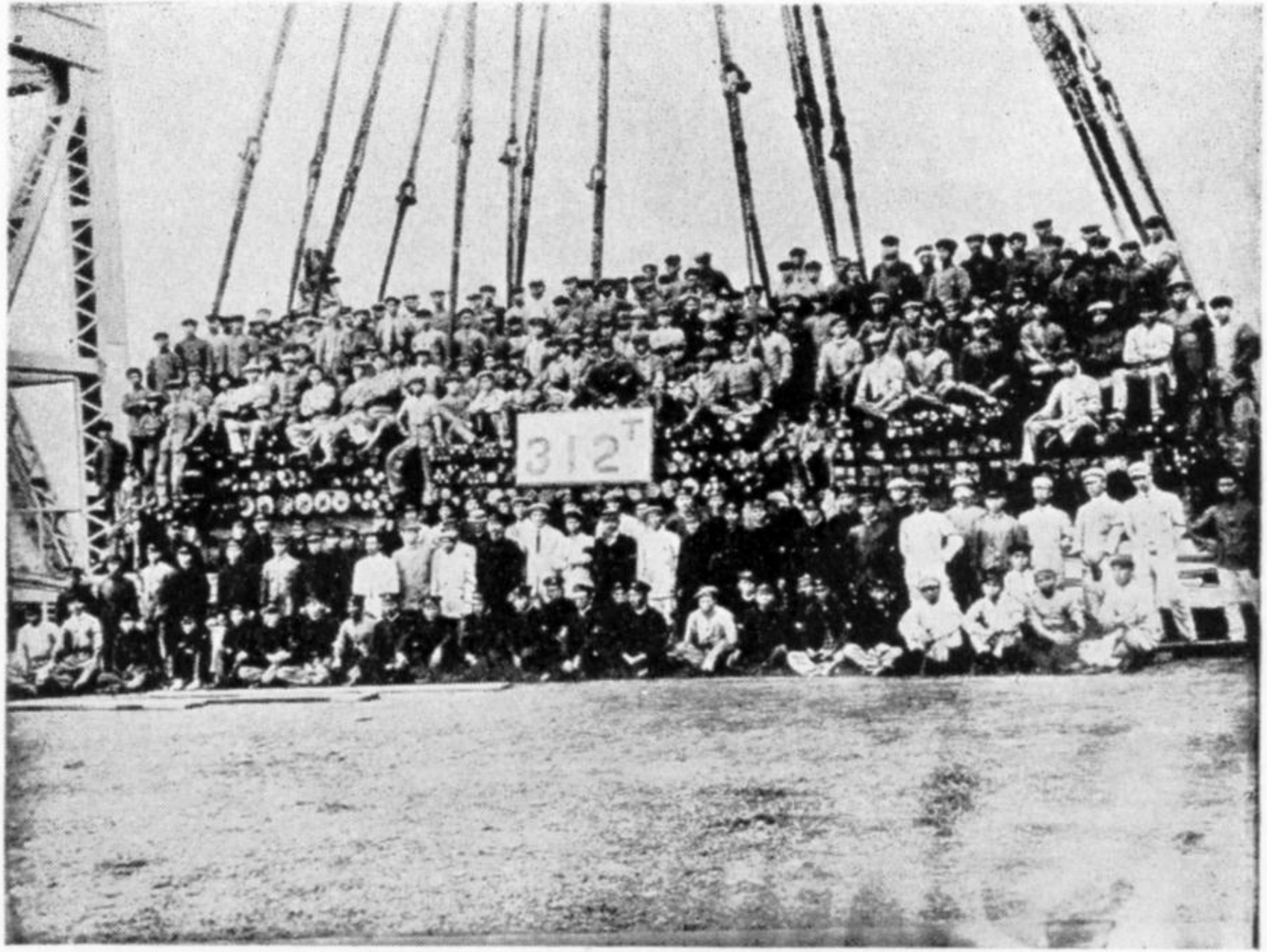
Bridge, location unknown [E46] (Plate 64)
Bridge, Railway, Road, 1926
B93164/PO
1 image: view of bridge assembled outside Arrol's Dalmarnock Iron Works, Glasgow.
Box 8


CHINE
FÉDÉRATION DE RUSSIE
CORÉE DU NORD
CORÉE DU SUD
MER DU JAPON
45°
40°
35°
Île Rebun
Île Rishiri
Wakkanai
Îles Kouriles
Fédération de Russie
Iturup (frontière contestée par le Japon)
Hokkaidō
Teshio
Abashiri
Kitami
Asahikawa
Daisetsu San 2 290
Kunashir
Otaru
Tokachi
Kushiro
Nemuro
Sapporo
Obihiro
Tomakomai
Muroran
Île Okushiri
Hakodate
Shirakami-Sanchi
Détroit de Tsugaru
Aomori
Hirosaki
Hachinoe
Noshiro
Kitakami
Morioka
Honshū
Akita
Omono
Kamaishi
Sakata
Tsuruoka
Ishinomaki
Yamagata
Sendai
Île Sado
Yonezawa
Fukushima
Niigata
Koriyama
Iwaki
Sanjo
Shirakawa-go et Gokayama
Nagaoka
Hitachi
Nanao
Toyama
Nagano
Utsunomiya
Takaoka
Mito
Kantō
Kanazawa
Maebashi
TŌKYŌ
Kawagoe
Funabashi
Fukui
Kōfu
Urawa
Chiba
Gifu
Ichinomiya
Kawasaki
Îles Oki
Lac Biwa
Fuji-San ▲3 776
Fuji
Yokohama
Matsue
Tottori
Ōtsu
Himeji-jo
Kyōto
Nagoya
Numazu
Ichihara
Kurashiki
Okayama
Shizuoka
Sagamihara
Fukuyama
Tsū
Nara
Toyota
Hiroshima
Kōbe
Ōsaka
Hamamatsu
Île Miyake
Tsushima
Itsukushima
Sakai
Yamaguchi
Toyohashi
Détroit de Corée
Takamatsu
Wakayama
Shimonoseki
Naruto
Hofu
Tokuyama
Monuments bouddhistes de la région d'Horyu-ji
Kita-kyūshū
Fukuoka
Kōchi
Détroit de Kii
Île Hachijo
Beppu
Matsuyama
Tokushima
Saga
Ōita
Uwajima
Sasebo
Omuta
Détroit de Bungo
Shikoku
Nagasaki
Kumamoto
Île Aoga
Yatsushiro
Nobeoka
Île Beyoneisu
Sendai
Miyazaki
Izu-Shoto
Kyūshū
Kagoshima
Nishino'omote
PACIFIQUE



ENGRAVING No. 1052.

250-ton Giant Cantilever Crane, with Slewing Motion.



Test Load.

長良工事現況
(第十二回) 16-9-20


SSK


注意事項


AMMETER
AMMETER
AMMETER
MAIN
SWICHI
PL
DC-220
T
10 T


AMMETER
MAIN
SWICHI
125 T
T

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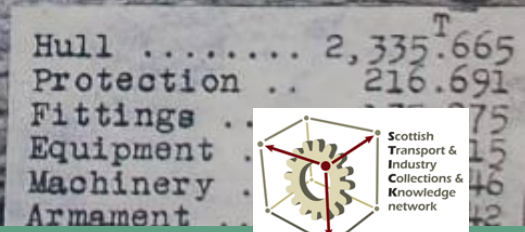


Scottish Transport & Industry Collections & Knowledge network

Dr Miles Oglethorpe, Historic Scotland, Conservation Directorate

THE TENTH SCOTTISH TEN SITE: JAPAN

SCOTTISH TEN

The Scottish Government

C D D V
Centre for Digital Documentation and Visualisation

HISTORIC SCOTLAND
ALBA AOSMHOR

DIGITAL DESIGN STUDIO
THE GLASGOW SCHOOL OF ART

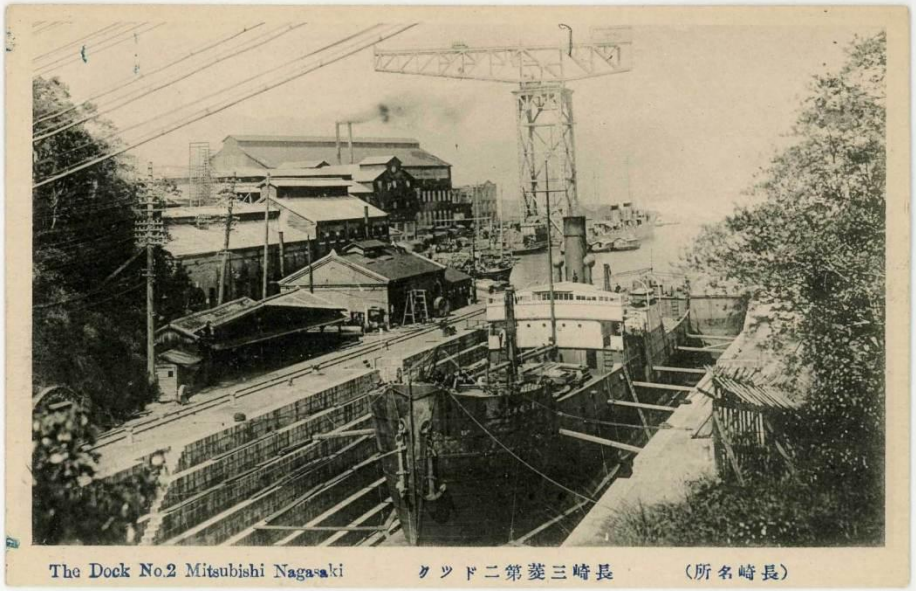
内閣官房
Cabinet Secretariat

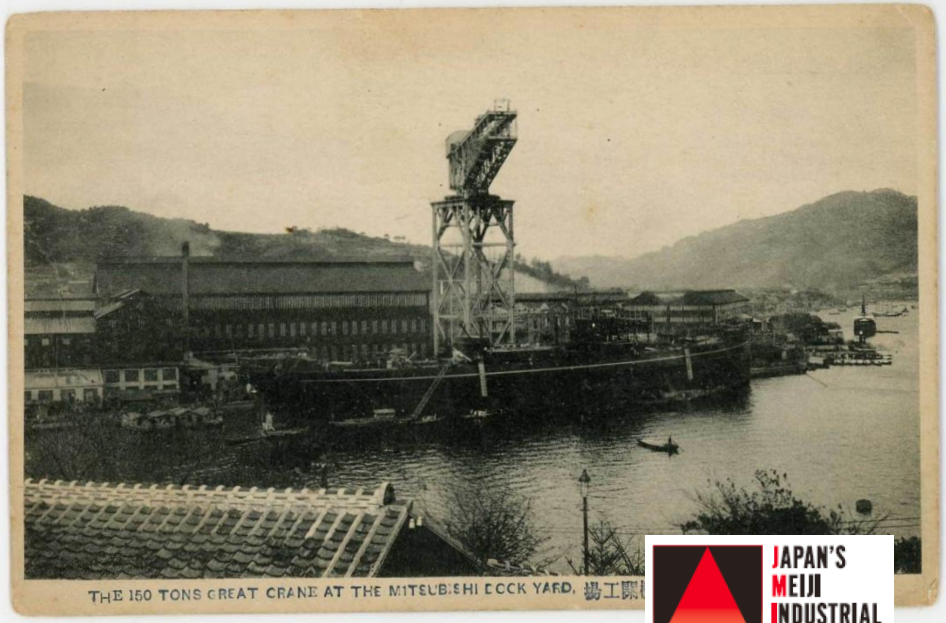
JAPAN'S MEIJI INDUSTRIAL REVOLUTION

The Giant Cantilever Crane, Mitsubishi Heavy Industries Shipyard, Nagasaki Harbour, Kyushu, Japan

THE TENTH SCOTTISH TEN SITE: JAPAN

SCOTTISH TEN





JAPAN'S MEIJI INDUSTRIAL REVOLUTION

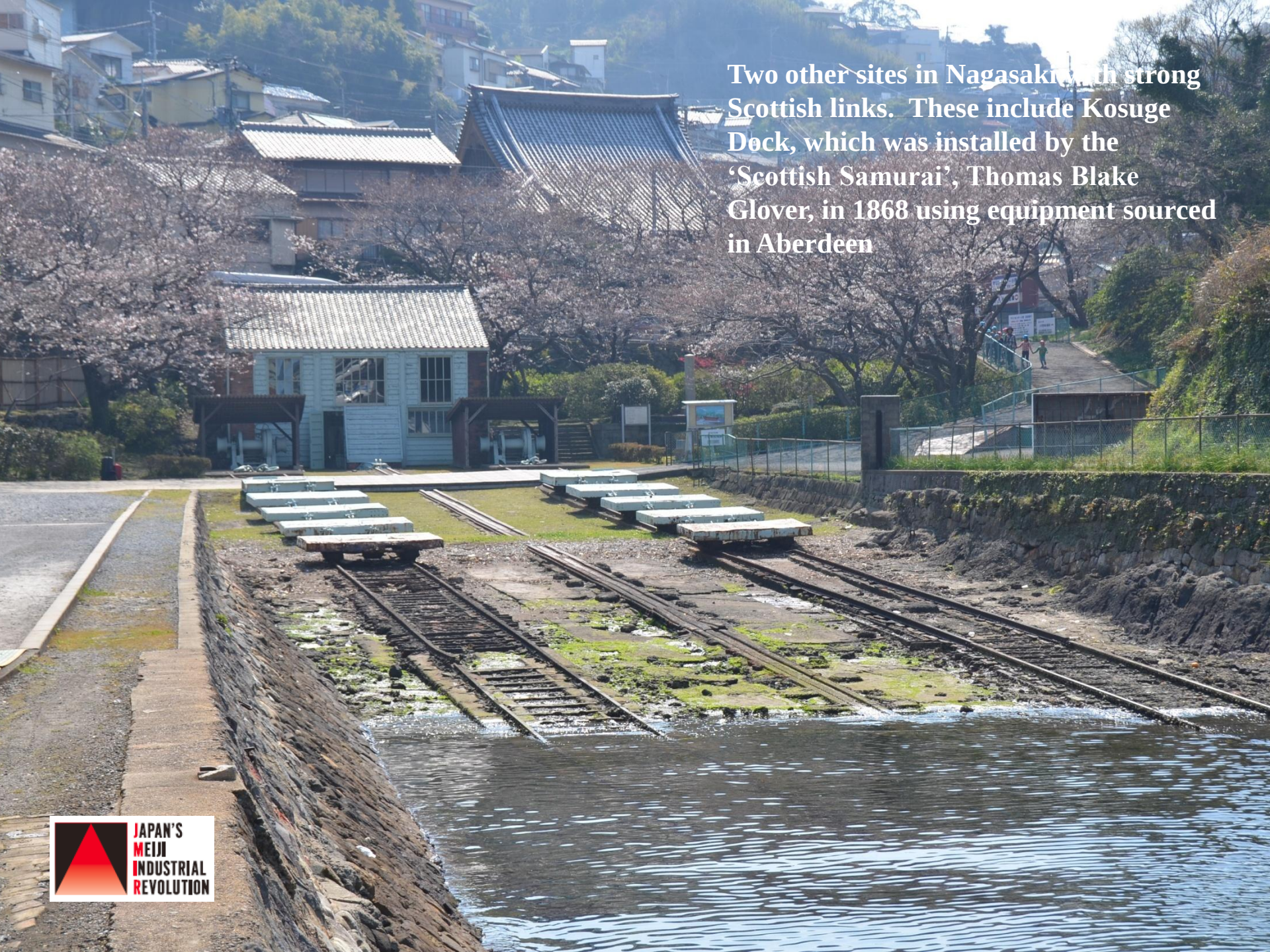
The Giant Cantilever Crane, Mitsubishi Heavy Industries Shipyard, Nagasaki Harbour, Kyushu, Japan

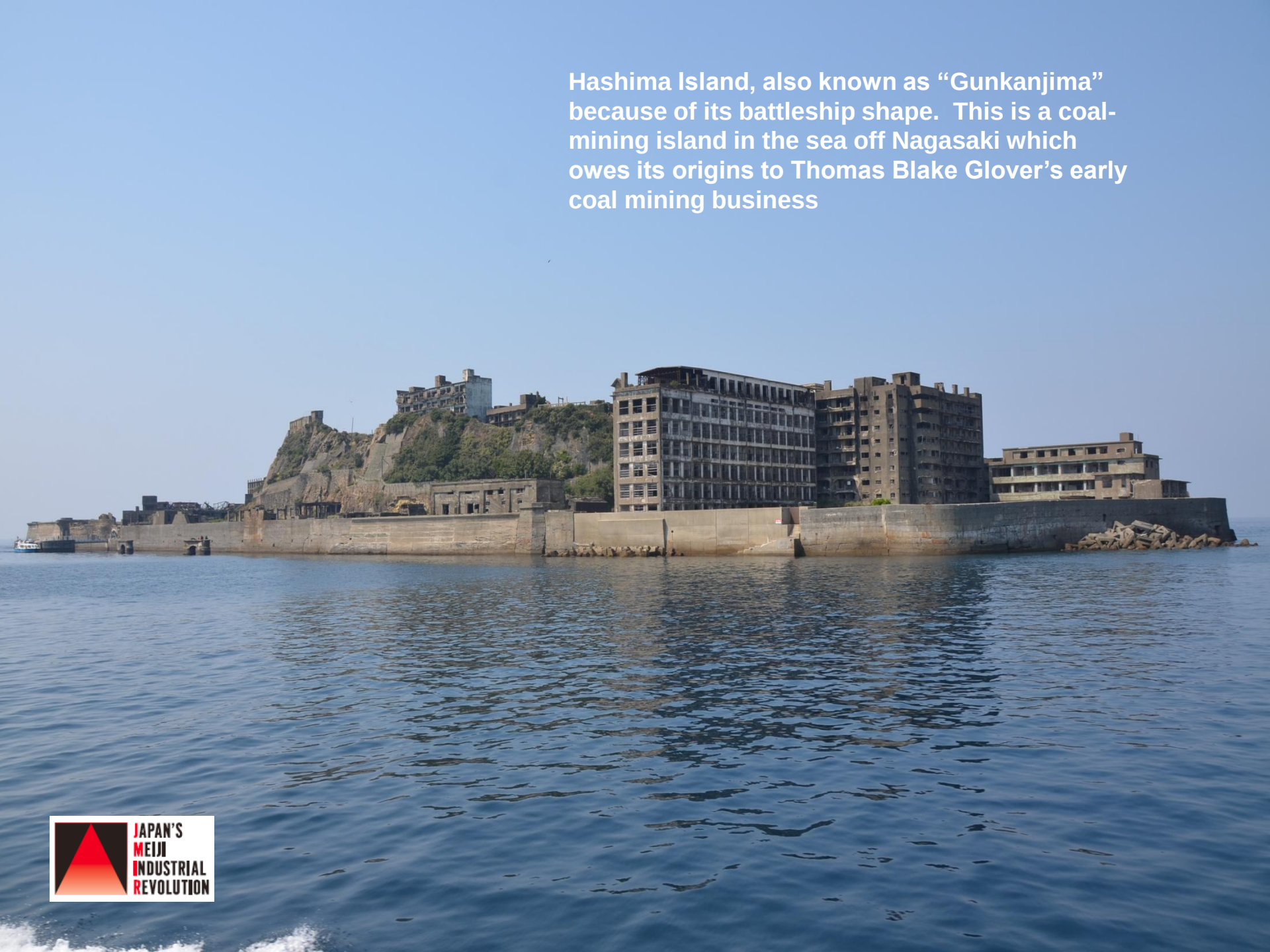

Wakkanai
Abashiri
Asahikawa
Kushiro
Sapporo
Hakodate
Aomori
Hachinohe
Akita
Morioka
Yamagata
Sendai
Niigata
Nagano
Nikko
Kanazawa
Takamatsu
Kyoto
Okayama
Narita Airport
Matsue
Tokyo
Yokohama
Hiroshima
Takayama
Nagoya
Fukuoka
Kochi
Sasebo
Osaka
Matsuyama
Nagasaki
Beppu
Kumamoto
Miyazaki
Kagoshima
Shinkansen Lines
Regular Lines


WELCOME TO NAGASAKI
長崎の街・産業遺産ファンクラブ

The Tenth Scottish Ten Site

- The 10th Scottish Ten site is based in Nagasaki
- Its most significant element is a Giant Cantilever Crane designed and built in Scotland and erected for Mitsubishi in 1909
- The crane is still in use today
- Also to be surveyed is Kosuge Dock, built in 1868 using equipment imported from Scotland
- A third part of the digital documentation will be Hashima Island, a spectacular off-shore coal-mining island

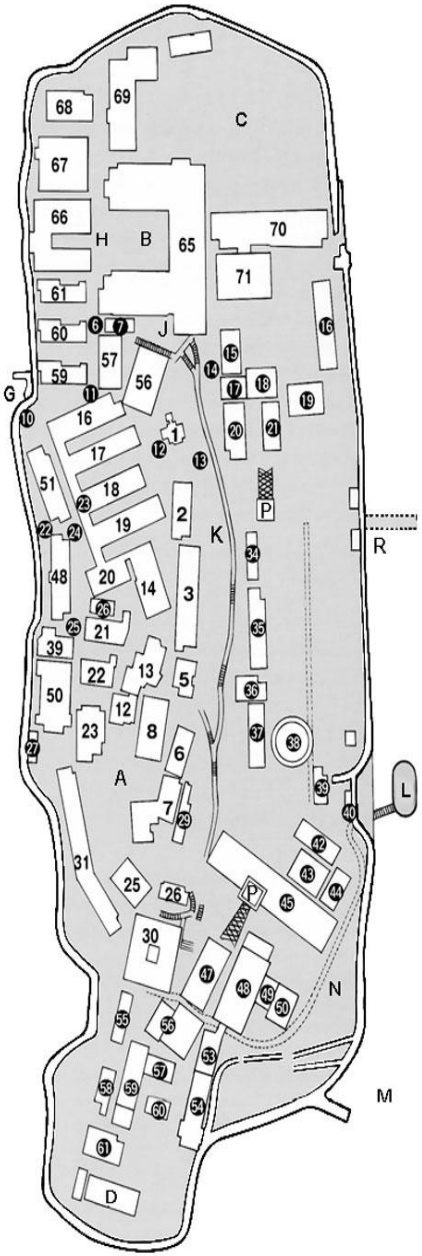

Two other sites in Nagasaki with strong Scottish links. These include Kosuge Dock, which was installed by the 'Scottish Samurai', Thomas Blake Glover, in 1868 using equipment sourced in Aberdeen
JAPAN'S MEIJI INDUSTRIAL REVOLUTION


Hashima Island, also known as “Gunkanjima” because of its battleship shape. This is a coal-mining island in the sea off Nagasaki which owes its origins to Thomas Blake Glover’s early coal mining business
JAPAN’S
MEIJI
INDUSTRIAL
REVOLUTION

0 50m

no:	date:	type:	use:
1	1936	wood, 1F	-shrine
2	1950	RC, 3F	-company flats for staff
3	1959	RC, 4F	-company flats for staff
5	1950	wood, 2F	-company house for manager
6	1936	wood, 2F	-company dormitory for single staff -clubhouse for senior staff
7	1953	wood, 2F	-public bath + company flats for workers
8	1919	RC+wood, 3F	-company flats for workers
12	1925		-public flats for teachers + office workers
13	1967	RC+wood, 3F	-company flats for workers, Chuo flats
14	1941	RC, 4F	-company flats for miners Nikkyu flats
16	1918	RC, 5F	-company flats for miners Nikkyu flats
17	1918	RC, 9F	-company flats for miners Nikkyu flats
18	1918	RC, 9F	-company flats for miners Nikkyu flats
19	1918	RC, 9F	-company flats for miners Nikkyu flats
20	1918	RC, 9F	-police station 1F + company flats for miners -Takashima branch office + public flats for office workers
21	1954	RC, wood, 6+1F	-lodgings for primary school teachers and Sempukuji temple
22	1953		-cafe, hotel + company flats for workers
23	1921	RC, steel, 5+1F	-lodgings for subcontracted workers -flats for suncontracted workers (originally for miners)
25	1931	RC, 5F	-public bath, post office + company flats for miners
26	1966	wood, 2F	-citizen's hall
30	1916	RC, 5F	-company flats for miners
31	1957	prefab, 2F	-movie theatre (Showa-kan)
39	1964	RC, 7F	-company flats for miners
48	1955	RC, 6F	-company flats for workers
50	1927	RC, 3F	-shops 1F + company flats for miners
51	1961	RC, 5F	-shops (underground) + company flats for miners
56	1939	steel, 2F	-shops (underground) + company flats for miners
57	1939	RC, 8F	-public baths (underground) + company flats for miners
59	1953	RC, 3F	-kindergarten + company flats for miners -company dormitory for miners
60	1953	RC, 4F	-company dormitory for miners
61	1953	RC, 5F + steel 1F	-hospital isolation ward
65	1945	RC, 5F + steel 1F	-Hashima (Gunkanjima) hospital
66	1940	RC, 5F + steel 1F	-Hashima (Gunkanjima) primary + junior high school
67	1950	RC 9F + 1F	-school gymnasium
68	1958	RC, 4F	
69	1958	RC, 4F	
70	1958	RC, 2F	
71	1970	RC, 4F	
		RC, 7F	
		RC, 2F	

A: small park for children
B: public park for children
C: playground
D: swimming pool
E: water tank
F: shopping market
G: shore protection opening
H: Salt-Spray Street
I: "Stairwell to Hell"
J: "The 50 steps stairway"
K: green promenade
L: Dolphin Pier
M: The harbor
N: tunnel walk
O: company office
P: winch turret
Q: tennis court
R: intake



JAPAN'S
MEIJI
INDUSTRIAL
REVOLUTION

THE TENTH SCOTTISH TEN SITE: JAPAN

SCOTTISH TEN

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