Capacity Guide

Dimensions, weights and loadability for trucks, sea containers, air ULDs, freighter aircraft and breakbulk vessels.

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ROAD

7 units

Australian road freight. Payloads assume compliant GVM and tare; practical payload is often reduced by driver, fuel, and pallet weight.

1-tonne Courier Van

Length (int.)	3.00 m	**Volume**	7.2 m³
Width	1.50 m	**Max payload**	1,000 kg
Height	1.60 m	**Pallets**	2 AU / 2 Euro

Sprinter/HiAce class. Tail-lift rarely fitted; hand-unload only.

3-tonne Tail-Lift

Length (int.)	4.50 m	**Volume**	20.8 m³
Width	2.10 m	**Max payload**	3,000 kg
Height	2.20 m	**Pallets**	6 AU / 8 Euro

Light rigid truck. Ideal for urban last-mile; tail-lift standard.

5-tonne Rigid

Length (int.)	6.00 m	**Volume**	33.1 m³
Width	2.30 m	**Max payload**	5,000 kg
Height	2.40 m	**Pallets**	10 AU / 12 Euro

Medium rigid truck. Most common metro distribution vehicle.

8-tonne Rigid

Length (int.)	7.00 m	**Volume**	41.2 m³
Width	2.40 m	**Max payload**	8,000 kg
Height	2.45 m	**Pallets**	12 AU / 14 Euro

Heavy rigid. Common for full-load industrial and palletised LCL.

12-tonne Rigid

Length (int.)	8.50 m	**Volume**	51 m³
Width	2.40 m	**Max payload**	12,000 kg
Height	2.50 m	**Pallets**	14 AU / 16 Euro

Large rigid, usually tautliner or pantech. Upper limit for most metro depots.

Semi-Trailer (Tautliner)

Length (int.)	13.60 m	**Volume**	91.1 m³
Width	2.48 m	**Max payload**	25,000 kg
Height	2.70 m	**Pallets**	22 AU / 33 Euro

Standard prime mover + 13.6 m trailer. 42.5 t GCM. Workhorse of AU interstate freight.

B-Double

Length (int.)	25.00 m	**Volume**	167.4 m³
Width	2.48 m	**Max payload**	42,000 kg
Height	2.70 m	**Pallets**	44 AU / 66 Euro

Two trailers linked by a fifth wheel. 62.5 t GCM. Permitted on approved B-double routes.

SEA

10 units

ISO shipping containers. Internal dimensions and payloads are typical; tare and max gross weight vary by build and carrier. AU road limits often cap actual payload below container max.

20' General Purpose

Length (int.)	5.90 m	**Max payload**	28,230 kg
Width	2.35 m	**Max gross**	30,480 kg
Height	2.39 m	**Tare**	2,200 kg
Volume	33.2 m³		

Workhorse dry box. Practical AU road payload is ~21–22 t with tare/trailer.

40' General Purpose

Length (int.)	12.03 m	**Max payload**	26,700 kg
Width	2.35 m	**Max gross**	30,480 kg
Height	2.39 m	**Tare**	3,750 kg
Volume	67.7 m³		

Volume-friendly dry box. Road payload limit almost always reached before weight limit.

40' High Cube

Length (int.)	12.03 m	**Max payload**	26,580 kg
Width	2.35 m	**Max gross**	30,480 kg
Height	2.69 m	**Tare**	3,900 kg
Volume	76.4 m³		

Extra 30 cm of internal height. Default for volumetric cargo. Height-restricted at some AU sites.

45' High Cube

Length (int.)	13.56 m	**Max payload**	27,600 kg
Width	2.35 m	**Max gross**	32,500 kg
Height	2.69 m	**Tare**	4,800 kg
Volume	86 m³		

Pallet-wide variants common in Europe; less common in AU. Road permits often required.

20' Reefer

Length (int.)	5.44 m	**Max payload**	27,700 kg
Width	2.29 m	**Max gross**	30,480 kg
Height	2.27 m	**Tare**	3,080 kg
Volume	28.4 m³		

Integrated refrigeration unit reduces internal length and height.

40' Reefer High Cube

Length (int.)	11.58 m	**Max payload**	29,200 kg
Width	2.29 m	**Max gross**	34,000 kg
Height	2.56 m	**Tare**	4,800 kg
Volume	67.8 m³		

Standard for AU meat, dairy, and produce exports.

20' Open Top

Length (int.)	5.90 m	**Max payload**	28,130 kg
Width	2.35 m	**Max gross**	30,480 kg
Height	2.37 m	**Tare**	2,300 kg
Volume	32.8 m³		

Removable tarpaulin roof. For cargo loaded top-down by crane; over-height requires out-of-gauge.

40' Open Top

Length (int.)	12.03 m	**Max payload**	26,500 kg
Width	2.35 m	**Max gross**	30,480 kg
Height	2.37 m	**Tare**	3,980 kg
Volume	66.9 m³		

Longer members; same tarp principle as 20'. Common for machinery.

20' Flatrack (Collapsible)

Length (int.)	5.94 m	**Max payload**	30,140 kg
Width	2.20 m	**Max gross**	34,000 kg
Height	2.23 m	**Tare**	2,360 kg

No sides or roof. Collapsible ends for return stacking. For over-width, oversize, and heavy project cargo.

40' Flatrack

Length (int.)	12.08 m	**Max payload**	40,000 kg
Width	2.40 m	**Max gross**	45,000 kg
Height	2.14 m	**Tare**	5,000 kg

Long machinery, boats, transformers, prefab. Heaviest payload of any ISO unit.

AIR ULDS

7 units

Unit Load Devices. Contours (slanted profiles) match the aircraft fuselage — lower-deck LD units have a chamfer, main-deck units are full rectangular prisms. Payloads are IATA-standard maxes; airline restrictions often apply.

AKE / LD3

IATA AKE

Length (int.)	1.56 m	**Volume**	4.3 m³
Width	1.53 m	**Max payload**	1,587 kg (3,500 lb)
Height	1.63 m	**Used on**	Lower deck — B777, B787, A330, A350, B747
Base	156 × 153 cm		

The standard lower-deck container. One side is chamfered to match the fuselage curve.

AKN / LD3-45

IATA AKN

Length (int.)	1.56 m	**Volume**	3 m³
Width	1.53 m	**Max payload**	1,134 kg (2,500 lb)
Height	1.14 m	**Used on**	Lower deck — B737, A320 series
Base	156 × 153 cm		

Shorter LD3 for narrow-body belly holds.

ALF / LD6

IATA ALF

Length (int.)	3.17 m	**Volume**	8.8 m³
Width	1.53 m	**Max payload**	3,175 kg (7,000 lb)
Height	1.63 m	**Used on**	Lower deck — B777, B747, A330, A350
Base	318 × 153 cm		

Two LD3 footprints. Chamfered both long sides.

AAP / LD9

IATA AAP

Length (int.)	3.17 m	**Volume**	10.8 m³
Width	2.23 m	**Max payload**	4,626 kg (10,200 lb)
Height	1.63 m	**Used on**	Lower deck — B747, B777, A330
Base	318 × 224 cm		

Full-width lower-deck container. Rectangular (no contour).

PMC / P6P Pallet

IATA PMC

Length (int.)	3.17 m	**Volume**	12.6 m³
Width	2.44 m	**Max payload**	6,804 kg (15,000 lb)
Height	1.63 m	**Used on**	Main & lower deck — most wide-bodies and freighters
Base	318 × 244 (96" × 125") cm		

The most common air cargo pallet. Netted and strapped; contours shaped to aircraft on loading.

PAG / P1P Pallet

IATA PAG

Length (int.)	3.17 m	**Volume**	11.5 m³
Width	2.23 m	**Max payload**	4,626 kg (10,200 lb)
Height	1.63 m	**Used on**	Main & lower deck — wide-bodies
Base	318 × 224 (88" × 125") cm		

Narrower pallet, commonly used for belly hold loading.

AMA / M-1 Main Deck

IATA AMA

Length (int.)	3.17 m	**Volume**	17.6 m³
Width	2.44 m	**Max payload**	6,804 kg (15,000 lb)
Height	2.44 m	**Used on**	Main deck — B747F, B777F
Base	318 × 244 cm		

Full 8' × 10' × 8' main-deck container. Tall — requires freighter or combi aircraft.

FREIGHTERS

6 units

Most common commercial freighter aircraft in international service. Payload and volume are typical maxes; actual lift depends on range, fuel, and runway.

Boeing 747-8F

Volume	858 m³	**Cargo door**	3.05 m H x 3.40 m W (main-side + nose)
Max payload	137,700 kg	**Max single piece**	3.00 m H x 3.35 m W x 12.20 m L
Main deck	30 × PMC + nose-load capability	**Typical range**	8,130 km
Lower deck	14 × PMC/PAG or 2× AKE per position		

Nose-loading door lets 12.2 m single pieces slide in straight. Flagship queen of air cargo.

Boeing 777F

Volume	653 m³	**Cargo door**	3.05 m H x 3.70 m W (main-side)
Max payload	102,800 kg	**Max single piece**	3.00 m H x 3.17 m W
Main deck	27 × PMC	**Typical range**	9,200 km
Lower deck	10 × PMC + 1 × LD3		

Best payload/range of twin-engine freighters. Industry backbone; dominant on long-haul trunk lanes.

Boeing 767-300F

Volume	438 m³	**Cargo door**	2.59 m H x 3.40 m W (main-side)
Max payload	52,700 kg	**Max single piece**	2.49 m H x 3.18 m W
Main deck	24 × LD2 / 19 × PMC positions	**Typical range**	6,025 km
Lower deck	30 × LD2 equivalent		

Regional and express workhorse (FedEx, UPS, DHL). Narrower cross-section than 777.

Boeing 737-800BCF

Volume	141 m³	**Cargo door**	2.16 m H x 3.56 m W (main-side)
Max payload	23,900 kg	**Max single piece**	2.03 m H x 2.08 m W
Main deck	11 × 88 × 125 pallet positions	**Typical range**	3,750 km
Lower deck	Bulk hold only		

Converted narrow-body. Huge in e-commerce and feeder networks (Amazon Air, ASL, China Post).

Airbus A330-200F

Volume	475 m³	**Cargo door**	3.00 m H x 3.58 m W (main-side)
Max payload	70,000 kg	**Max single piece**	2.97 m H x 3.56 m W
Main deck	23 × PMC	**Typical range**	7,400 km
Lower deck	8 × LD3 + 2 × LD6 or equivalent		

Medium-range widebody freighter. Common with Qantas Freight, Qatar, Turkish.

Airbus A321P2F

Volume	158 m³	**Cargo door**	2.24 m H x 3.40 m W (main-side)
Max payload	28,000 kg	**Max single piece**	2.11 m H x 2.09 m W
Main deck	14 × 88 × 125 pallet positions	**Typical range**	3,700 km
Lower deck	10 × LD3-45		

Largest narrow-body freighter currently in service. Growing fleet in AU domestic networks.

BREAKBULK

6 units

Multi-purpose, heavy-lift, and semi-submersible vessels for project cargo, breakbulk, and out-of-gauge units. Fleet examples drawn from BBC Chartering, Spliethoff / BigLift, Jumbo, AAL, and Boskalis. Crane figures are combined tandem lifts where vessels carry two cranes.

MPP EuroCarrier (AAL / BBC F-type)

DWT	9,300 t	**Container slots**	558 TEU
Cargo hold	13,650 m³	**Tank-top load**	15 t/m²
Hold shape	Box-shaped, ~90 m × 16 m, 3 hatches	**Cranes (2)**	150 t single / 300 t tandem
Tween deck	Movable pontoons — 2 decks configurable	**Max piece weight**	300 t

Workhorse multi-purpose vessel. Boxed holds take 12 m, 40' and 45' containers; pontoons lift for tall pieces. BBC F-500/EuroCarrier class.

Heavy-Lift F-700 (BBC Chartering)

DWT	12,700 t	**Container slots**	681 TEU
Cargo hold	17,000 m³	**Tank-top load**	20 t/m²
Hold shape	Boxed, 2 hatches, ~104 m total hold length	**Cranes (2)**	250 t single / 500 t tandem
		Max piece weight	500 t
Tween deck	Pontoon tween deck		

Mid-range heavy lift. Tandem 500 t handles transformers, wind nacelles, pressure vessels. BBC F-700 class.

Project Heavy-Lift P-Type (BBC Pioneer)

DWT	17,300 t	**Container slots**	880 TEU
Cargo hold	23,600 m³	**Tank-top load**	25 t/m²
Hold shape	Boxed, 2 hatches, ~120 m × 20 m	**Cranes (2)**	400 t single / 800 t tandem
		Max piece weight	800 t
Tween deck	3 pontoon positions		

Upper end of the merchant HL fleet. Tandem 800 t lifts cover most wind, oil & gas, and rail project work.

Spliethoff S-Type Multipurpose

DWT	21,500 t	**Container slots**	1,054 TEU
Cargo hold	26,900 m³	**Tank-top load**	20 t/m²
Hold shape	Full box holds, 3 hatches, ice class 1A	**Cranes (2)**	120 t single / 240 t tandem
		Max piece weight	240 t
Tween deck	Movable tween decks (6 positions)		

Spliethoff's S-class. High ice class and boxed holds make it a backbone of project and breakbulk trades on northern routes.

Super Heavy-Lift (Jumbo / BigLift)

DWT	14,000 t	**Tank-top load**	30 t/m²
Cargo hold	17,000 m³	**Cranes (2)**	900 t single / 1800 t tandem
Hold shape	Open-top boxed hold, 1–2 hatches	**Max piece weight**	1,800 t
Tween deck	Lift-out pontoons		

Jumbo J-Class / BigLift Happy series. Mast cranes reach tandem 1,800 t lifts for refinery modules, offshore topsides, full jacket sections.

Semi-Submersible Heavy Transport (Boskalis / COSCO)

DWT	76,000 t	**Tank-top load**	45 t/m²
Hold shape	Open deck 178 m × 42 m (no hold — cargo sits on deck)	**Max piece weight**	50,000 t
Tween deck	n/a — open deck		

Deck submerges so cargo floats or is skidded on. Used for drill rigs, FPSOs, naval vessels, decommissioning. Examples: Boka Vanguard (117 k DWT, 275 m × 70 m), COSCO Xin Guang Hua.

Figures are typical industry values. Internal dimensions and payloads vary slightly by manufacturer, carrier tare, and national road limits. Always confirm with the carrier before booking.