

Airfreight - Global

Air Cargo Watch #14: Good 4Q peak, with more signs of a demand bottom

Industry Overview

Monthly Air Cargo Watch to track the airfreight industry

Our monthly Air Cargo Watch includes high frequency airfreight data to track trends in the industry. Air cargo freight rates averaged +17.5% QoQ higher in 4Q23 during the seasonal peak period but have started 1Q24 down -13% QoQ QTD given easing seasonal tailwinds. Air cargo demand is showing growing signs of passing the bottom in 2H23—and we see scope for Red Sea disruptions to support some temporary air cargo shipments. Air cargo supply continues to grow led by passenger belly flight restoration and key to 2024 is capacity discipline by the freighters which remains elusive for now.

Demand: Volumes turning corner, no Red Sea boost yet

Air cargo demand continued to recover with traffic growing at 8.3% YoY in November 2023 and estimated 3-4% YoY in December 2023. Asian demand grew the most led by strength in capital equipment and consumer goods. 2023 YTD global air cargo demand recovered to 96% of 2019 levels as of November 20223, with US/Asia/Europe back to 108%/93% /87% of pre-Covid levels. High frequency data suggests no real uptick in cargo demand into 2H December or 1H January – but we see scope for rush shipments into the pre-CNY peak given ramping Red Sea capacity disruptions ahead.

Supply: Freighter discipline to be tested when belly adds

Air cargo capacity grew by 13.7% YoY in November 2023 and an estimated +11% YoY in December 2023. Growth was largely driven by belly capacity on restoration of passenger flights which grew ~30% YoY in 4Q23. Dedicated international freighters capacity was +1.2% YoY in November showing no real signs of freighter discipline for now despite weaker rates.

Rates: Rates dip into the seasonal weak period ahead

4Q23 air cargo freight rates averaged 17.5% QoQ higher on a stronger than expected 4Q peak boosted by strong eCommerce shipments. But 1Q24 has already seen some weakness with rates down 13% QoQ QTD on seasonality. Freight rates are still averaging 20% above 2019 levels and some routes with belly constrained markets, including Shanghai/HK to US/Europe, HK/Singapore to ASEAN are seeing rates more than 30% above 2019 levels.

Taiwan: Stronger yields relative to 2019

Taiwanese airline cargo load factors continued to MoM decline in November/December at ~70% but yields strengthened for the two airlines to 46%-58% above 2019 levels in November 2023 for China Airlines and EVA respectively and 51%-69% in December 2023 above 2019 levels respectively (up from 32%-40% above 2019 in October).

16 January 2024

Equity Global Airfreight

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Timestamp: 16 January 2024 01:28AM EST

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Airfreight rates

Exhibit 1: Weekly Global Baltic Airfreight Index

Baltic Airfreight index now at 1,861 down -33% YTD YoY

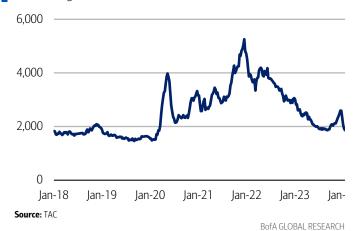


Exhibit 2: Baltic Airfreight Index for key cities

HK/SH/London/Chicago saw rates move by -4%/+1%/-1%/-9% WoW



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Exhibit 3: Key airfreight rates overview table, % change on 1Q24 data

Global rates are down -13% QoQ in 1Q24 so far

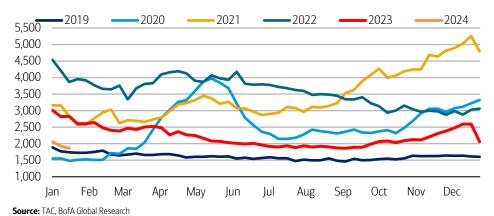
	Baltic Airfreight - Global	BAF- HK	BAF- Shanghai	BAF- Singapore	BAF- London	BAF- Chicago	Shanghai- Europe	Shanghai- US	HK- Europe	HK- US	HK-SE Asia	London- US	Singapore-SE Asia
1Q21	2,803	2,828	5,165	423	2,547	1,702	4.5	6.1	4.3	5.6	1.8	4.9	1.8
2Q21	3,136	3,545	5,867	425	2,755	1,672	4.5	7.7	4.6	8.0	1.8	5.5	1.9
3Q21	3,284	3,724	6,521	412	2,664	1,702	5.0	8.5	4.8	8.5	2.0	5.0	1.8
4Q21	4,562	5,230	9,898	417	2,928	2,322	7.8	12.8	7.5	11.6	2.5	4.9	1.8
1Q22	3,844	4,300	7,373	484	2,771	2,151	6.4	9.0	6.0	9.3	2.3	4.5	2.1
2Q22	3,995	4,226	7,717	564	2,890	2,424	7.2	8.9	6.1	8.9	2.3	4.2	2.5
3Q22	3,529	3,909	6,845	600	2,340	2,312	6.6	7.7	6.3	7.7	2.3	3.5	2.6
4Q22	3,002	3,288	5,477	528	2,210	1,973	5.5	5.9	5.7	6.1	2.1	3.3	2.3
1Q23	2,591	2,736	4,542	495	1,877	1,958	4.3	5.0	4.5	5.2	1.9	2.7	2.2
2Q23	2,148	2,742	3,777	425	1,512	1,436	3.3	4.4	3.8	4.9	1.8	1.9	1.9
3Q23	1,905	3,067	3,577	351	1,090	1,230	3.0	4.3	3.7	4.6	1.6	1.2	1.5
4Q23	2,239	3,886	4,831	313	957	1,186	4.3	5.8	4.6	5.9	1.7	1.1	1.4
1Q24	1,946	3,474	3,711	349	973	1,031	3.4	4.3	4.2	5.2	1.7	1.1	1.5
QoQ	-13%	-11%	-23%	12%	2%	-13%	-20%	-26%	-10%	-12%	-1%	2%	12%
YoY	-25%	27%	-18%	-29%	-48%	-47%	-20%	-15%	-9%	0%	-10%	-60%	-30%
YTD YoY	-33%	12%	-29%	-27%	-53%	-52%	-32%	-26%	-18%	-13%	-16%	-65%	-27%
vs 2019	13%	100%	20%	56%	-7%	-24%	18%	20%	52%	49%	48%	-7%	56%

Source: TAC, BofA Global Research

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Exhibit 4: Weekly Global Baltic Airfreight Index by year, 2019-24

Latest weekly rate index trending slightly downwards





Airfreight demand

Global cargo traffic

Exhibit 5: Monthly global air cargo demand growth YoY %

Demand was up 8.3% YoY in November, +3.8% YoY in October



Source: BofA Global Research estimates, IATA

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Exhibit 7: Air cargo demand (CTK) as % of 2019 levels

Demand at 97.6% of 2019 levels as of November 2023



Jan-20 Jul-20 Jan-21 Jul-21 Jan-22 Jul-22 Jan-23 Jul-23 Jan-24

Source: BofA Global Research estimates

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Exhibit 9: Weekly cargo chargeable weight, YoY % since Aug 2022

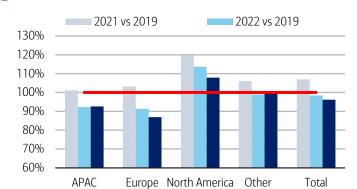
Global demand was up by 3-4% in mid November-early January



Source: WorldACD, BofA Global Research

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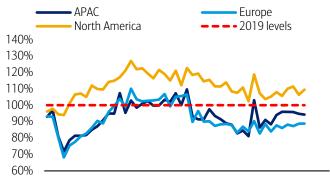
Exhibit 6: Air cargo demand (CTK) vs 2019 levels by major regions 2022 demand was 2% below 2019 levels, YTD2023 so far at -4% vs 2019



Source: IATA, BofA Global Research. YTD up to February 2023

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Exhibit 8: Monthly air cargo demand by major regions vs 2019 levels Demand from North America still the strongest at 110% of 2019 levels



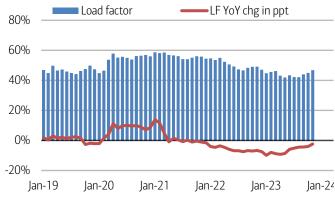
Jan-20 Jul-20 Jan-21 Jul-21 Jan-22 Jul-22 Jan-23 Jul-23 Jan-24

Source: IATA, BofA Global Research

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Exhibit 10: Global cargo load factor and YoY changes in ppts

Load factor improved from to 45% in October to 46.8% in November



Source: IATA, BofA Global Research estimates

Exhibit 11: China air cargo: Growth by industry v. 2019, 10M2023

Capital equipment made positive contributions YTD2023

		Capital		Consumer	Fashion	High	Live	Machinery	Raw	Special	Temperature	
	Automotive	Equipment	Chemicals	Goods	Goods	Technology	Animals	Parts	Materials	Handling	Control	Total
Jan-23	19%	42%	7%	24%	-20%	-20%	0%	-3%	-8%	-18%	-18%	-6%
Feb-23	35%	116%	19%	81%	6%	1%	51%	27%	33%	9%	-14%	26%
Mar-23	35%	66%	3%	46%	4%	-12%	69%	16%	0%	18%	-38%	9%
Apr-23	21%	57%	13%	36%	-7%	-17%	21%	6%	-11%	-16%	-26%	1%
May-23	14%	57%	22%	31%	-10%	-16%	17%	6%	-13%	-15%	-46%	0%
Jun-23	14%	57%	33%	34%	-9%	-22%	45%	11%	-13%	-9%	-57%	0%
Jul-23	8%	48%	20%	22%	-12%	-22%	80%	4%	-11%	-7%	-27%	-3%
Aug-23	15%	54%	35%	31%	1%	-19%	69%	9%	1%	-18%	10%	4%
Sep-23	5%	64%	49%	37%	-6%	-17%	28%	5%	1%	7%	-12%	4%
Oct-23	29%	46%	56%	28%	-7%	-25%	47%	7%	-1%	-16%	-27%	-1%
YTD 2023	19%	59%	25%	35%	-7%	-18%	43%	8%	-4%	-8%	-27%	2%

Source: Company report

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Leading demand indicators

Exhibit 12: Global air cargo demand yoy growth v. ISM new orders

ISM new orders lead air cargo demand by 3 months with 0.65 correlations



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Exhibit 13: Air cargo demand v. US inventory-to-sales ratio (inverted) I/S ratios lead air cargo demand by 3 months with -0.56 correlations



Source: BofA Global Research, Bloomberg

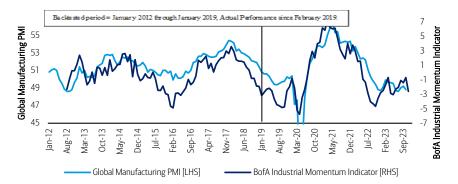
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Industry demand data

BofA Industrial Momentum Indicator recovers into year-end: ready to break out?

Exhibit 14: BofA Industrial Momentum Indicator vs Global Manufacturing PMI

BofA Industrial Momentum Indicator typically leads Global Manufacturing PMI



Source: BofA Global Research, Backtested period = January 2012 through January 2019, Actual Performance since February 2019. This performance is back-tested and does not represent the actual performance of any account or fund. Back-tested performance depicts the theoretical (not actual) performance of a particular strategy over the time period indicated. No representation is being made that any actual portfolio is likely to have achieved returns similar to those shown herein. Disclaimer: The indicator identified as BofA Industrial Momentum Indicator above is intended to be an indicative metric only and may not be used for reference purposes or as a measure of performance for any financial instrument or contract, or otherwise relied upon by third parties for any other purposes, without the prior written consent of BofA Global Research. This indicator was not created to act as a benchmark

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Global Memory Tech: BofA memory indicator: downturn over; surpassed mid-cycle in Nov 2023



Exhibit 15: BofA Memory Indicator is derived from YoY change in price/exports/billings

In Sep, the indicator (94) reached a year-high level, mostly due to significant recovery in DRAM billings (volume+price driven), as well as resilient NAND billings, Korea semis exports, and spot prices



Source: DRAMeXchange, WSTS, MoTIE Korea, BofA Global Research

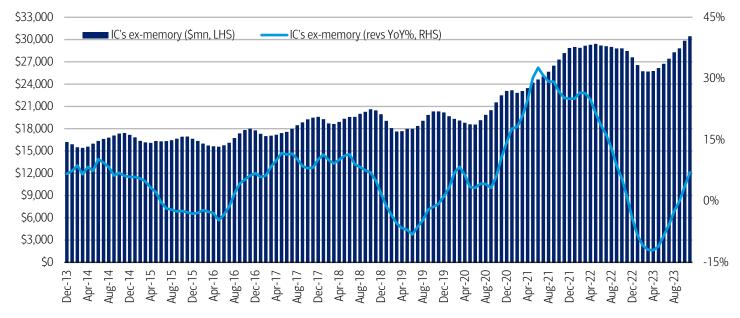
The shaded area represents backtested results from January 1991 to March 2021. The unshaded area represents actual performance since April 2021. This performance is backtested up to March-2021, and does not represent the actual performance of any account or fund. Back-tested performance depicts the theoretical (not actual) performance of a particular strategy over the time period indicated. No representation is being made that any actual portfolio is likely to have achieved returns similar to those shown herein. Disclaimer: The BofA Memory Indicator is intended to be an indicative metric only and may not be used for reference purposes or as a measure of performance for any financial instrument or contract, or otherwise relied upon by third parties for any other purpose, without the prior written consent of BofA Global Research. This indicator was not created to act as a benchmark.

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Global Semiconductors: Nov'23 SIA: Semis grow both sequentially and YoY on strong pricing trends

Exhibit 16: IC ex-memory unit trends over the last 10 years (3mma)

IC ex-memory sales were up 7.0% YoY (3mma)



Source: SIA, BofA Global Research

Ocean vs air shipping

Exhibit 17: Vessel capacity stuck in congestion (% of fleet), 2020-23 World congestion eased to 5.6% of world supply now

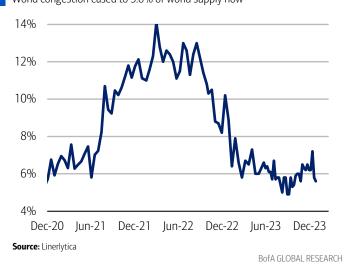
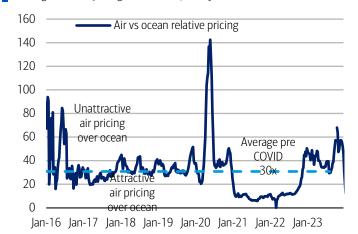


Exhibit 18: Airfreight relative pricings to ocean, China-Europe route Airfreight relative pricing fell to 11x in January

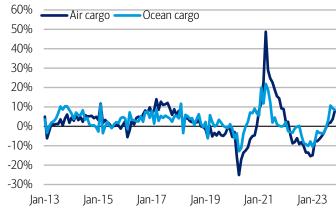


Source: BofA Global Research estimates, Bloomberg

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Exhibit 19: Air and ocean cargo demand growth YoY %, 2013-23

Air cargo and ocean demand both grew yoy in October – November

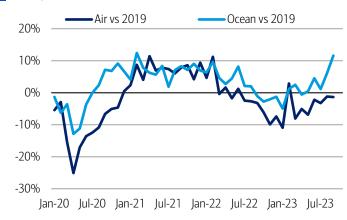


Source: Bloomberg, IATA, BofA Global Research estimates

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Exhibit 20: Air and ocean demand compared to 2019 levels

Air cargo demand is -2% below 2019 vs ocean at +8% in November



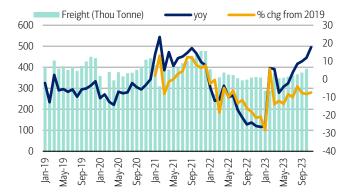
Source: Bloomberg, IATA, BofA Global Research estimates

Airport cargo traffic

Asian airports

Key cargo hubs in the region (Hong Kong, Shanghai, Singapore, Beijing, Taipei, Seoul):

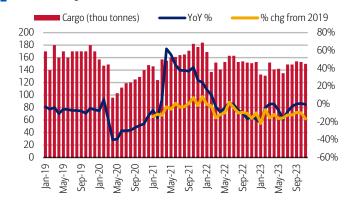
Exhibit 21: Hong Kong – airport cargo traffic ('000 tonne) and % chg November cargo traffic was -7% down from 2019 levels, +18% YoY



Source: BofA Global Research, company report

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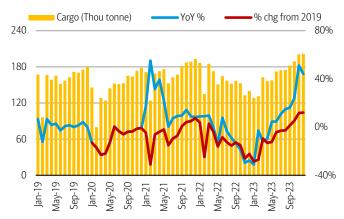
Exhibit 23: Singapore – airport cargo traffic ('000 tonne) and % chg November cargo traffic were -17% of 2019 levels, -1% YoY



Source: BofA Global Research, company report

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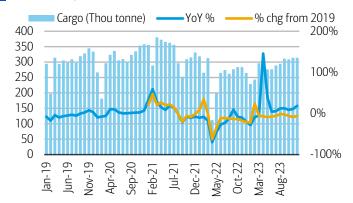
Exhibit 25: Guangzhou – airport cargo traffic ('000 tonne) and % chg December cargo traffic was +12% down from 2019 levels, +44% YoY



Source: BofA Global Research, company report

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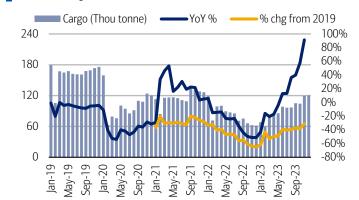
Exhibit 22: Shanghai PVG– airport cargo traffic ('000 tonne) and % chg December cargo traffic was -6% down from 2019 levels, +19% YoY



Source: BofA Global Research, company report

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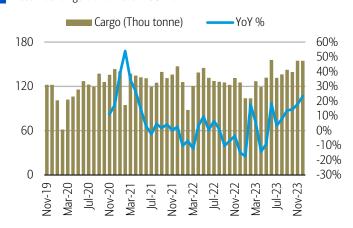
Exhibit 24: Beijing PEK – airport cargo traffic ('000 tonne) and % chg December cargo traffic was -32% down from 2019 levels, +95% YoY



Source: BofA Global Research, company report

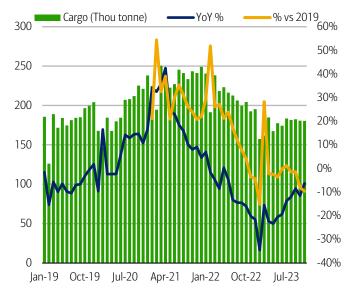
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Exhibit 26: Shenzhen – airport cargo traffic ('000 tonne) and % chg December cargo traffic were +23% YoY



Source: BofA Global Research, company report

Exhibit 27: Taipei - airport cargo traffic ('000 tonne) and % chg November cargo traffic was -10% down from 2019 levels, -6% YoY



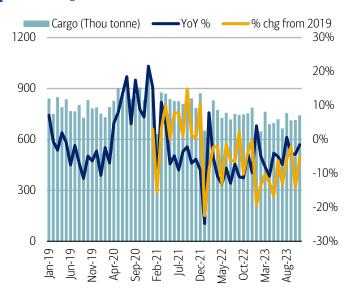
Source: BofA Global Research, company report

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US airports

Key cargo hubs for FedEx (Memphis) and UPS (Louisville):

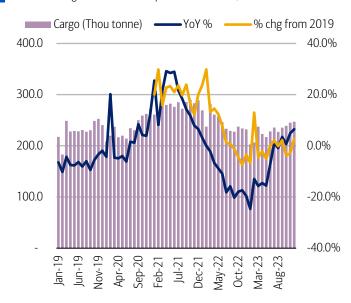
Exhibit 29: Memphis - airport cargo traffic ('000 tonne) and % chg November cargo traffic was -5% down from 2019 levels, -2% YoY



Source: BofA Global Research, company report

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Exhibit 28: Seoul - airport cargo traffic ('000 tonne) and % chg December cargo traffic was 3% up from 2019 levels, +6% YoY

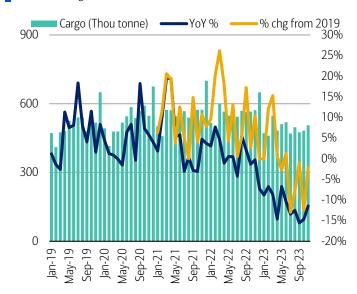


Source: BofA Global Research, company report

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Exhibit 30: Louisville - airport cargo traffic ('000 tonne) and % chg

November cargo traffic was -2% down from 2019 levels, -11% YoY



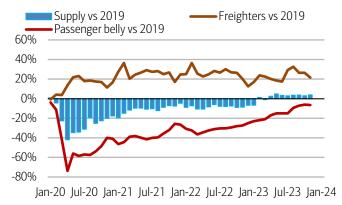
Source: BofA Global Research, company report



Airfreight supply

Exhibit 31: Global airfreight capacity vs 2019, freighters & belly

Airfreight capacity stays above 2019 levels in 2023

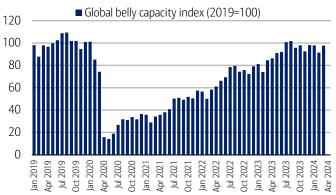


Source: BofA Global Research estimates, IATA

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Belly capacity

Exhibit 33: Payload adjusted global bellyhold capacity index, 2019=100 Belly cargo capacity rising to 98% of 2019 levels in 2024



Source: BofA Global Research estimates, Diio, Boeing, Airbus

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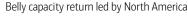
Exhibit 32: Global airfreight capacity (mn ton-km)

Global supply was up +13.1%/13.7% YoY in September/October 2023



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Exhibit 34: Payload adjusted belly capacity by region, 2019=100





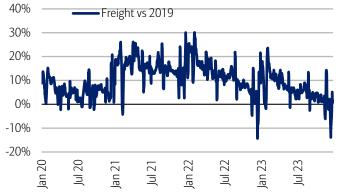
Source: BofA Global Research estimates, Diio, Boeing, Airbus

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Freighter

BofA Commercial Aerospace: Cycles improved across all regions except EU

Exhibit 37: Global dedicated freighter flights tracked 7-day avg. YoY % This excludes commercial aircraft used as freighter. It has become progressively weaker through 2022-23



Source: BofA Global Research, Flightradar24

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Exhibit 36: Freight landings Sep – Dec 2022 vs 2019

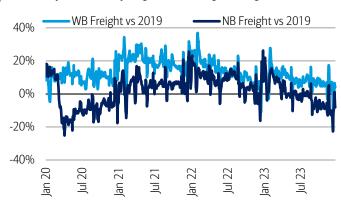
Monthly average number of landings vs 2019 levels have cooled off since September 2022



Source: BofA Global Research, Flightradar24

Exhibit 39: Narrowbody vs Widebody dedicated freighter flights tracked 7-day avg. YoY %

Narrowbody and Widebody freight have converged through 3Q22

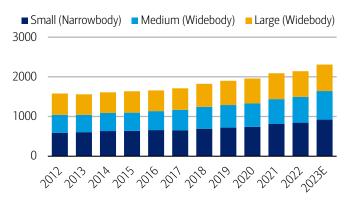


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Exhibit 39: Number of global freighter fleet from major OEMs

Fleet growth is at 3.5% CAGR since 2012

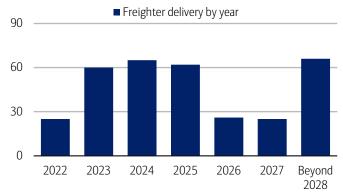
Source: BofA Global Research, Flightradar24



Source: Trade and Transport Group, BofA Global Research. Note excluding smaller feeder BofA GLOBAL RESEARCH

Exhibit 41: Number of freighter deliveries by year

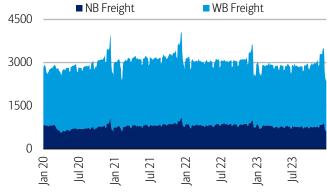
Deliveries will reach 60-65 freighter per year in 2023-25



Source: Cirium, BofA Global Research estimates

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Exhibit 40: Narrowbody vs Widebody dedicated freighter flights daily Freight cycles typically peak around the holiday period in December

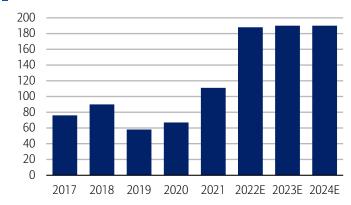


Source: BofA Global Research, Flightradar24

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Exhibit 40: Number of freighter jet conversions from passenger

Annual conversions planned has doubled in 2022-24E vs pre-COVID

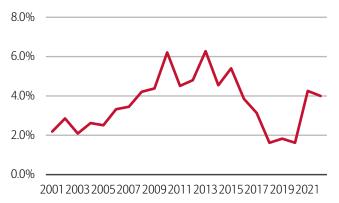


Source: Cirium, BofA Global Research estimates

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Exhibit 42: Annual freighter retirement as % of in-service fleet

About 3.5% retirement rate a year through the cycle



Source: Cirium, BofA Global Research estimates



Exhibit 43: Age of freighters by year, 2019 and 2021

The share of fleet with age over 30 years is higher at 21% in 2021

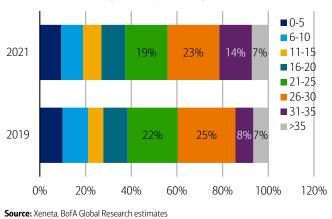
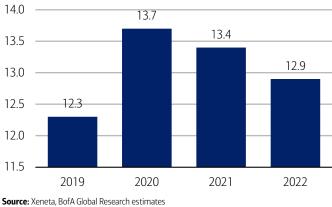


Exhibit 44: Large freighter hours flown per day

Utilization hours not far from 2019 levels



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Demand/supply balance

Exhibit 45: Global airfreight demand and supply vs 2019 levels and demand-supply gap

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Balance has flipped to negative since November 2022

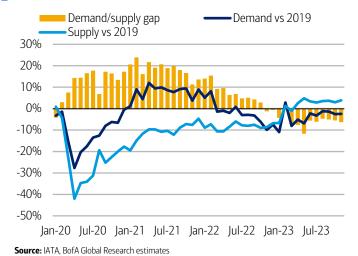
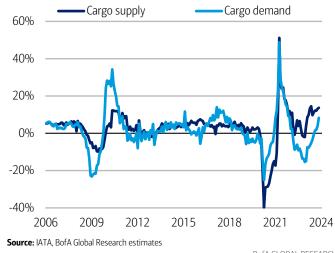


Exhibit 46: Global airfreight demand and supply growth YoY%

YoY cargo demand and supply imbalance improved slightly



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BofA demand/supply model

We expect air cargo to remain in oversupply in 2023-24:

Exhibit 49: Global air cargo annual supply & demand balance

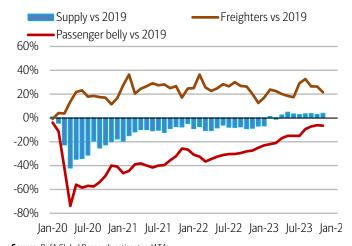
We see demand-supply turning negative in 2022-24E

YoY %	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Demand (FTK)	20.8%	-0.7%	-1.0%	1.9%	4.5%	3.4%	3.8%	10.1%	3.7%	-3.3%	-8.9%	17.5%	-8.0%	-3.0%	3.2%	3.4%
Capacity (AFTK)	8.9%	4.1%	1.1%	3.1%	3.7%	6.1%	5.3%	3.8%	5.2%	2.1%	-20.9%	12.8%	2.9%	10.4%	6.4%	3.1%
Demand/supply balance	11.9%	-4.8%	-2.0%	-1.2%	0.8%	-2.7%	-1.5%	6.3%	-1.5%	-5.4%	12.0%	4.7%	-10.9%	-13.4%	-3.2%	0.3%

Source: BofA Global Research estimates, IATA

Exhibit 48: Global airfreight capacity vs 2019, freighters & belly

Airfreight capacity is close to 2019 levels now

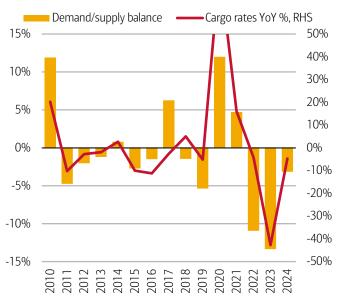


Source: BofA Global Research estimates, IATA

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Exhibit 50: Global air cargo balance and cargo yield YoY %

Cargo balance drives cargo yield with high correlation at 0.77

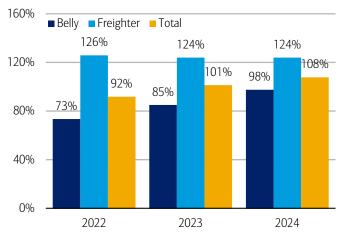


Source: IATA, BofA Global Research estimates

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Exhibit 49: Air cargo capacity by segment, as % of 2019 levels We see global capacity to reach 93%/99%/106% of 2019 levels in

We see global capacity to reach 93%/99%/106% of 2019 levels in 2022/23/24

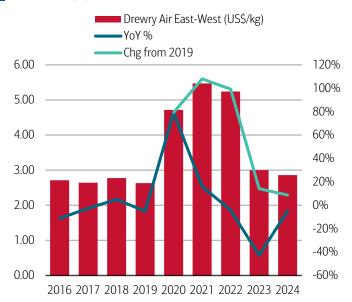


Source: BofA Global Research estimates

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Exhibit 51: Global air cargo yield and % change

We expect cargo yield will continue to normalize in 2023-24

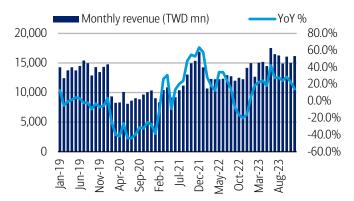


Source: Drewry, IATA, BofA Global Research estimates

Airlines operating data

Exhibit 52: China Airlines – monthly revenue (TWD mn) and YoY %

November/December revenue +22.5%/+14% YoY

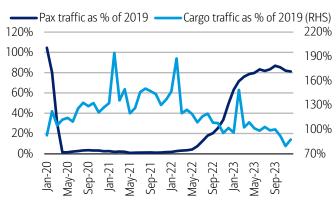


Source: BofA Global Research, company report

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Exhibit 54: CAL passenger (RPK) and cargo (FTK) traffic as % of 2019

November/December cargo traffic at 80%/88% of 2019 levels

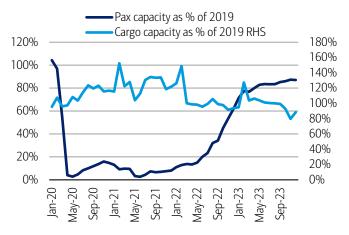


Source: BofA Global Research, company report

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Exhibit 56: CAL passenger and cargo capacity as % of 2019

November/December cargo capacity at 80%/88% of 2019 levels

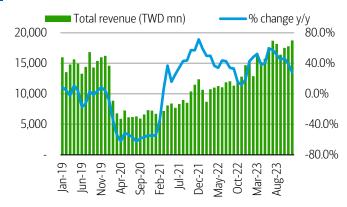


Source: BofA Global Research, company report

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Exhibit 53: EVA Air – monthly revenue (TWD mn) and YoY %

November/December revenue +38.9%/+27.7% YoY

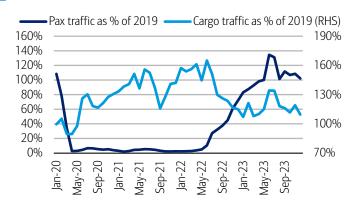


Source: BofA Global Research, company report

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Exhibit 55: EVA Air – monthly revenue (TWD mn) and YoY %

November/December cargo traffic at 119%/109% of 2019 levels

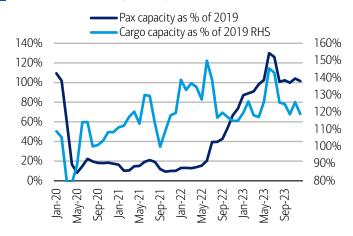


Source: BofA Global Research, company report

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Exhibit 57: EVA passenger and cargo capacity as % of 2019

November/December cargo capacity at 126%/119% of 2019 levels



Source: BofA Global Research, company report

Exhibit 58: CAL passenger and cargo yields as % of 2019 levels

November/December cargo yield at 146%/151% of 2019 levels

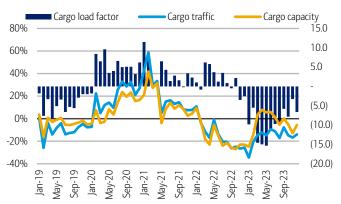


Source: BofA Global Research, company report

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Exhibit 60: CAL cargo traffic, capacity growth, loads YoY chg (RHS)

November/December cargo load factor at 68.6%/67.9% of 2019 levels

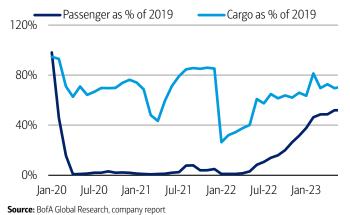


Source: BofA Global Research, company report

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Exhibit 62: Cathay Pacific passenger and cargo traffic as % of 2019

November cargo traffic at 71% of 2019 levels



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Exhibit 59: EVA passenger and cargo yields as % of 2019 levels

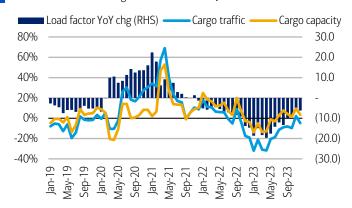
November/December cargo yield at 158%/169% of 2019 levels



Source: BofA Global Research, company report

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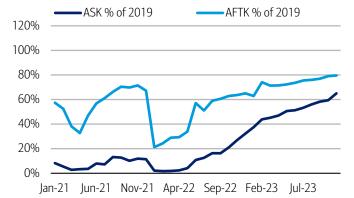
Exhibit 61: EVA cargo traffic and capacity growth, loads YoY chg (RHS) November/December cargo load factor at 73%/71.4% of 2019 levels



Source: BofA Global Research, company report

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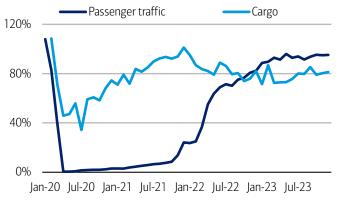
Exhibit 63: Cathay Pacific passenger and cargo capacity as % of 2019 November cargo capacity at 80% of 2019 levels



Source: BofA Global Research, company report

Exhibit 64: Singapore Airlines pax & cargo traffic as % of 2019

November/December cargo traffic at 80%/81% of 2019 levels

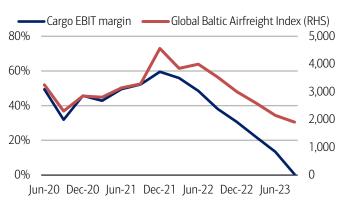


Source: BofA Global Research, company report

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Exhibit 66: Singapore Airlines quarterly cargo EBIT margin and Baltic Airfreight Index (RHS)

Sep-Q SIA cargo margin at 0%, down from 13% in Jun -Q

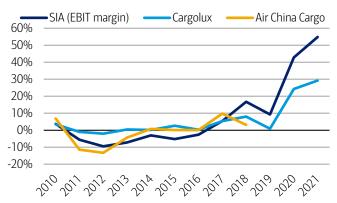


Source: BofA Global Research estimates, company report

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Exhibit 68: Cargo margins for selected airlines with disclosures

Cargo historically has been largely a breakeven business

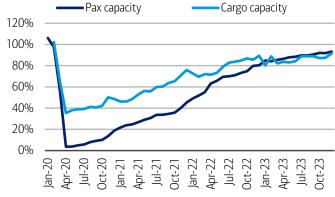


Source: BofA Global Research estimates, company report

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Exhibit 65: Singapore Airlines pax & cargo capacity as % of 2019

November/December cargo capacity at 87%/91% of 2019 levels

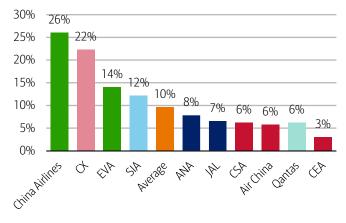


Source: BofA Global Research, company report

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Exhibit 67: Asian airlines: Cargo as % of revenue in FY2019

China Airlines, Cathay Pacific and EVA are most exposed to cargo earnings

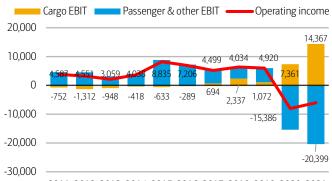


Source: BofA Global Research estimates, company report

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Exhibit 69: Asian airlines estimated EBIT breakdown by cargo and other segments, USD mn

We estimate cargo has contributed US\$14bn in operating profit in 2021, offsetting >70% of the losses in passenger and other businesses



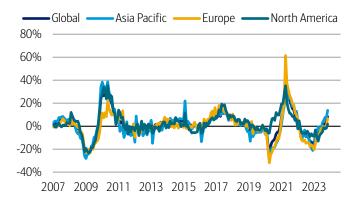
2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021

Source: BofA Global Research estimates, company report. Note airlines include Air China, CEA, CSA, JAL, ANA, EVA, China Airlines, CX and SIA

Global airfreight market overview

Exhibit 70: Monthly air cargo demand growth YoY %

Cargo demand drives the cyclicality of the industry, CAGR at ~3% pre-COVID

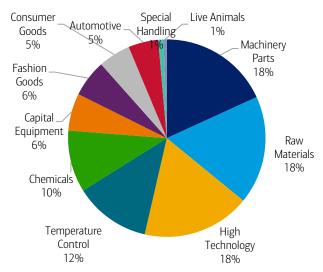


Source: IATA, BofA Global Research

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Exhibit 72: Global air cargo demand (metric tonne) by industry, 2022

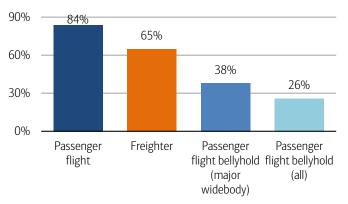
Major industries are machinery parts, raw materials and high tech



Source: BofA Global Research estimates

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Exhibit 74: Seat/cargo load factors for different type of services, 2019 Freighter has higher cargo loads than belly hold capacity



Source: IATA, Boeing

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Exhibit 71: Monthly air cargo supply (AFTK) growth YoY %

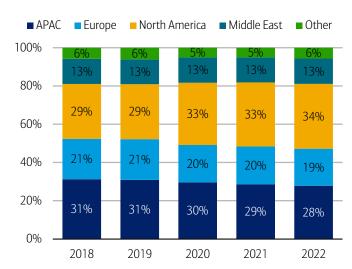
Cargo supply has been relatively steady at 3-4% p.a. pre-COVID



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Exhibit 73: Global air cargo demand by region

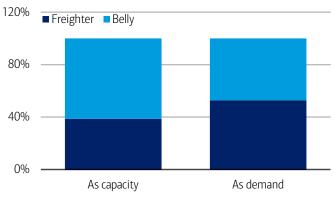
The share of North America has risen from 29% to 34% now



Source: IATA, BofA Global Research

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Exhibit 75: Capacity and demand breakdown by cargo fleet type, 2019 Freighter represented 39% of capacity but 53% of demand with higher loads



Source: IATA



Exhibit 76: Top global cargo airlines by cargo-tonne-km (mn), 2021 Fedex, Qatar and UPS the global top 3

25000 ■ Top global cargo airlines by cargon-tonne-km (mn) 20000 15000

10000 5000 0 Turket princes China Southern Cathay Pacific Folesti bil Ethitates Categlit AtlasAir

Source: IATA

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Exhibit 78: Global air cargo trade (metric ton) by trade lane

Trades among Asia, North America and Europe the top lanes

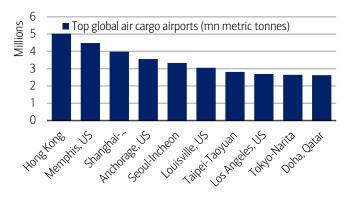


Source: IATA

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Exhibit 77: Top global air cargo airports (mn metric tonnes), 2021

Hong Kong, Memphis and Shanghai-Pudong the global top 3

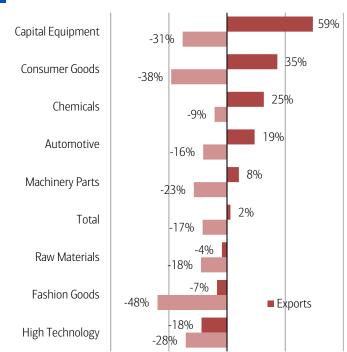


Source: ACI

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Exhibit 79: Chinese imports & exports v. 2019 by air cargo, 10M2023

Chinese air cargo exports grew by 2% while imports declined by 17% vs. 2019 levels as of October 2023



Source: BofA Global Research estimates

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Buy ≥ 10% ≤ 70% Neutral ≥ 0% ≤ 30% Underperform N/A ≥ 20%

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