



CHINA STEEL INTELLIGENCE REPORT

China's uncertain place in the steel world

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China's uncertain place in the steel world



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CHINA'S UNCERTAIN PLACE IN THE STEEL WORLD

BY TOMAS GUTIERREZ

Kallanish held its Asia Steel Markets 2022 (ASM22) online conference at the end of April with speakers covering the whole region. This issue of CSI will look at what the wide range of commentary and forecasting means for China's steel industry and its role in the world.

We will look both at differing forecasts for the Chinese industry itself, as well as developments in its neighbours and the implications for China. From China's domestic economy, its trade balance, its carbon emissions and global standing, the steel industry is facing a series of challenges in the coming years.

Views on China

ASM22 on 27-28 April invited speakers from across the region, each from a different viewpoint. Among the most significant for China and its role in the steel world was over the outlook for its steel exports. On balance, participants expected higher exports this year but the view was not universally held. Li Xinchuang, president of the China Metallurgical Planning and research Institute (MPRI), argued that exports could be weaker than many conference participants expected. The Covid-19 outbreaks in Shanghai and Shenzhen have affected the economy across a much wider area, but the central government still wants to achieve

TABLE 1. SUPPLY AND DEMAND

	2021	Jan-Feb 2022	Y-o-Y	2022 Outlook	Y-o-Y
Official Crude Steel Output	1,033	158	-10.00%	1,016	-1.60%
Apparent consumption	943	146	-6.29%	913	-3.10%
End user demand	946	158	-2.24%	913	-3.50%

Source: Kallanish, Miller-Torres

FIGURE 1. STEEL PRODUCTION AND DEMAND 2015-2021



Source: Kallanish, Miller-Torres

5.5% year-on-year growth in GDP this year. This means China will try to maintain the domestic market scale and steel consumption will be boosted, resulting in a decrease in exports in 2022, Li predicted. In 2021, strong output controls were key to bringing exports lower, but an annual cap on output is again being imposed this year, limiting the additional volume available for export, even if prices are favourable. Meanwhile, the ratio of exports to production is declining as steel supply is expected to meet domestic demand. The ratio was 5.4% in the first quarter this year, falling from 6.5% registered in full-year 2021. This indicates a new policy direction for export control. Li also predicted that China's steel production and consumption will decrease 1.5% and 4.5% year-on-year respectively in 2022.

FIGURE 1. EXPORT SHARE OF STEEL OUTPUT BELOW HISTORIC LEVELS



Source: Kallanish, Customs, exports/net rolled output

Ian Roper of Kallanish Consulting Services however believes Chinese steel exports will be driven higher by weak domestic demand and tight overseas markets. The loss of Black Sea exports since the start of the latest Russia-Ukraine war has left some markets, notably Europe but also the Gulf and elsewhere, scrambling to source replacement volumes. China's steel net exports rose to over 40 million tonnes last year, from just 15m in 2020. Exports would have been higher last year if not for uncompetitive prices, but this year Chinese steel prices are more competitive and have thus attracted strong overseas demand.

FIGURE 1. CHINESE COMPETITIVENESS SPREAD



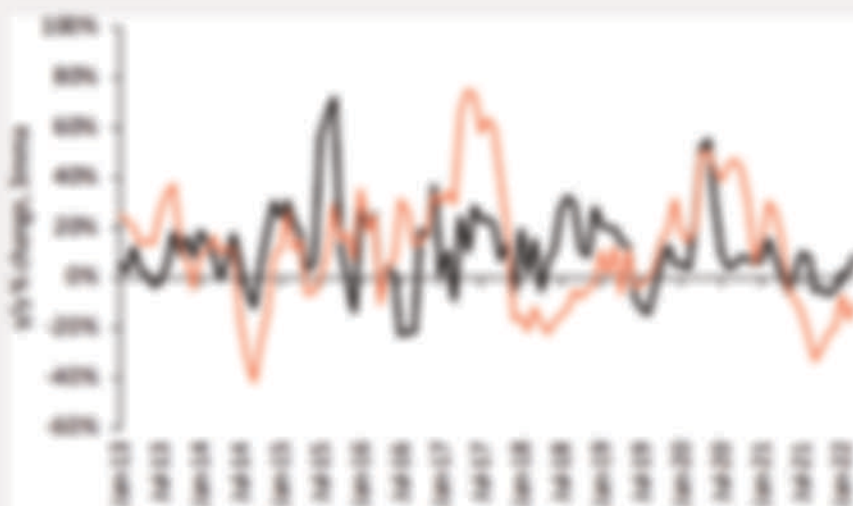
Source: Kallanish, SI



So far this year export volumes have been down y-o-y, despite recovering each month since the start of the war in Ukraine. In 2021 however export volumes peaked in April and then dropped fairly sharply. The base for comparison is therefore about to change significantly and y-o-y comparisons should look stronger from May data onwards.

Underlying the differing expectations for exports are assumptions about the recovery of the Chinese economy. Chinese crude steel output has again been capped this year, meaning overall output cannot exceed 2021 levels, which were similarly capped at 2020 levels. Demand will therefore be key in deciding the volume of exports. U predicts that domestic steel demand will fall this year by 4.9%. Roper meanwhile believes that his previous expectation of a 5% drop in demand may now be too optimistic as Covid lockdowns continue to stall the economy. The problem, according to Roper, is that even though credit supply is increasing, it is not flowing into real investment. One short term factor is that companies are borrowing to pay salaries amid Covid lockdowns. Deeper than this is a lack of demand for credit as companies are struggling to find new investments with strong returns.

FIGURE 4. NET NEW LENDING NOT REACHING REAL ECONOMY



Source: Kallanish Consulting, PBoC, China Ref

India emerges as a competitor

One limit on China's steel exports is India's emergence as an exporter to China's key export markets. Ash Sahay, secretary general of the Indian Steel Association notes that the country's target of 300m t/y of crude steel capacity by financial 2030-2031 may be delayed only slightly by perhaps a year because of the impact of Covid. The Association expects this to allow crude steel output of around 255mt that year, while finished steel production would be around 230mt. Sahay also notes that domestic demand is also expected to reach around 230mt in the same year.

That would suggest a fairly balanced picture for net exports. However, other participants noted that India's growth trajectory looked more like China's in the early 2000s. India may or may not increase the proportion of its production that goes to exports, but as capacity increases rapidly, absolute export volumes should also grow. India is already a major supplier into Vietnam, where China has struggled to defend its market share over the last year.

FIGURE 5. VIETNAM IS NOW MAJOR DESTINATION FOR INDIAN STEEL



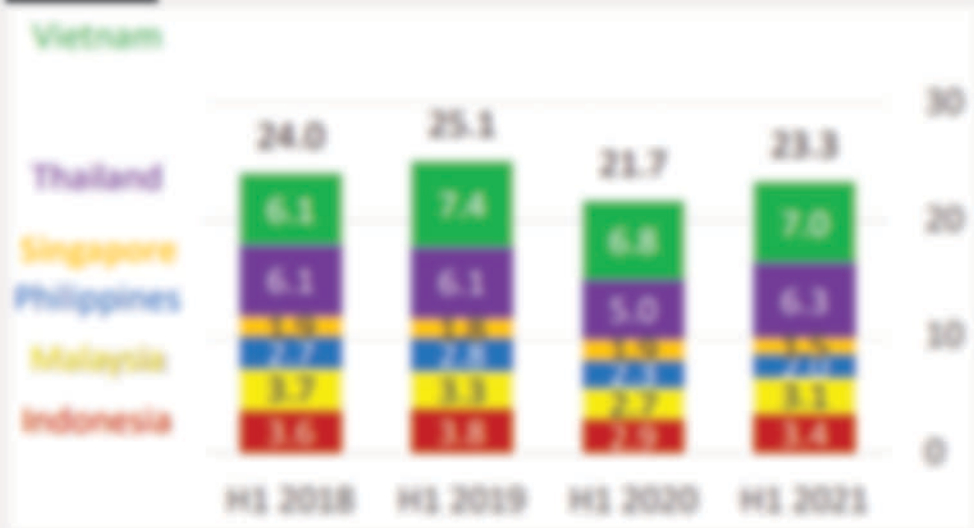
Source: Indian Steel Association

Asian capacity growth could upend markets, boost pollution

China's biggest destination market, Southeast Asia, is also the world's largest importing region. This may not last forever, with local capacities due to surge in the coming years. ASEAN-6 countries-Indonesia, Malaysia, Philippines, Singapore, Thailand, and Vietnam-are boosting steel capacity and have potential to raise steel exports in the future, according to Yeoh Woe Jin's presentation at the Kallanish Asia Steel Markets 2022 conference. Yeoh, secretary general of the South East Asia Iron and Steel Institute (SEASII), said that Chinese investments had been pouring into the region, and dominate

steel plant investments in Indonesia and Malaysia. Total crude steel capacity in the region is expected to reach 140 million tonnes/year by 2026, surging from 75m ty in 2021.

FIGURE 6. ASEAN IMPORTS ARE SLIDING



Source: Steel

The balance of trade is already changing sharply, with imports declining, and export growing steadily. This has been the case despite local apparent steel consumption beginning to recover in 2021. SEASII says Asian steel demand expanded to 74.5mt in 2021, from 71.5mt in 2020. This remains the second lowest since 2015, as the Delta variant of Covid wreaked havoc on regional economies last year. 2022 is expected to see a further recovery in demand however.

There is also another important impact of heavy investment in the region. Upcoming capacity will move ASEAN's steel industry away from being dominated by electric arc furnaces (EAFs). Of total steel capacity including part contributed by rotary kiln electric furnaces (RKEFs) in 2026, the percentage of steel produced by BF-Blast and EAF technologies could reach 57% and 36% respectively, compared to 34% and 54% in 2021.

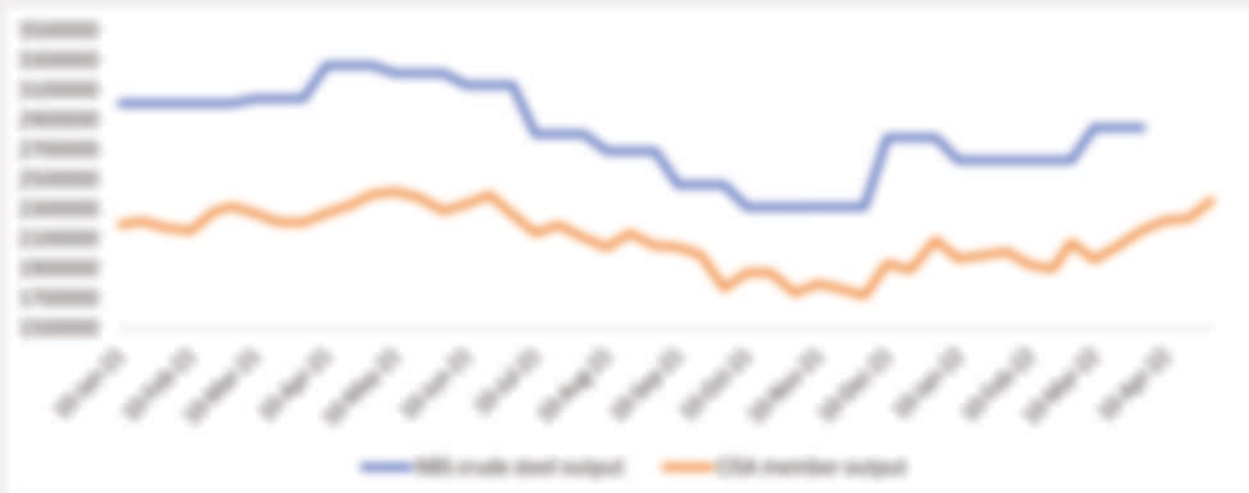


SUPPLY & DEMAND OVERVIEW

Official data for the first quarter continued to show that demand was struggling to recover after the New Year break. Production was in any case going to be down on-year after the strong start to 2021, but the drop in demand is more concerning and has given urgency to China's attempts to stimulate a recovery. According to the National Bureau of Statistics (NBS) crude steel output in March was down 5.4% y-o-y at 88.295 million tonnes. That left crude steel output over the quarter down 10.5% y-o-y at 243.375mt. Net steel exports in March were recovering from the start of the year, but were still down from 2021. As a result, apparent domestic steel consumption in March was down 4% y-o-y at 80.84mt, while over the quarter it was down 9.3% at 223.855mt.

This is not unusual for this time of year, but typically a sharp drop in production would keep inventory levels much lighter. Total inventory levels were down a little, but weak demand remained broadly in line with 2021. By the end of March, the inventory rate was 104.2%, down from 225.2% in February and 109.2% a year earlier. Accounting for inventory change, end user demand was down 10.5% y-o-y in March at 83.17mt, while Q1 end user demand was down 5.8% at 188.837mt.

FIGURE 8: CRUDE STEEL OUTPUT RECOVERING



Source: NBS, CRU, Kallanish

These results are in line with what had previously been expected. April however has seen China's economy shocked by Covid outbreaks into a further decline in demand. Overall inventory levels have barely moved from the end of March, when typically they run down during the peak season for steel demand. Output has inched higher, suggesting some recovery in demand as some cities begin to emerge from lockdowns. The recovery remains very slow however, and inventories could begin to look high very soon.



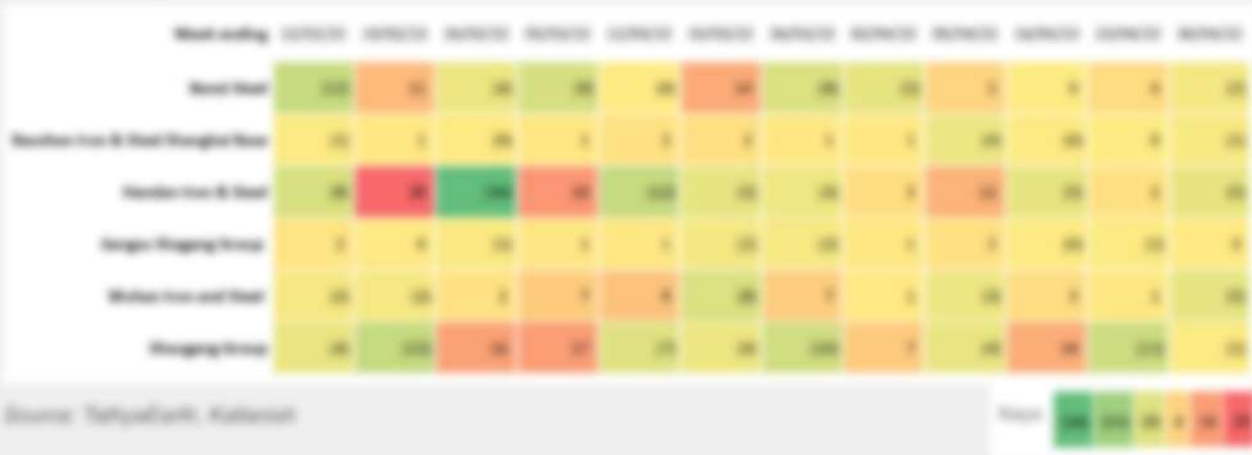
FIGURE 16. INVENTORY RATE IN LINE FOR NOW



Source: IMF, Kallanish, inventorydemand

Satellite data from TethysEarth, monitoring blast furnaces at certain key Chinese mills, suggests fairly stable output through April. Blast furnaces have been operating steadily in most regions, although there were earlier cutbacks in production as lockdowns impacted raw materials supply. There has been some pick up in output from EAFs however, as well as from smaller blast furnace producers that are gradually restoring their supply chains. Steady output leaves Chinese steel markets increasingly reliant on the success of stimulus plans to sustain prices.

FIGURE 17. BLAST MILL OUTPUT STEADY



Source: TethysEarth, Kallanish



END USERS

REAL ESTATE

The Chinese real estate sector saw another downturn in March data, which is expected to have intensified in April. Despite the loosening of credit policy towards the sector, most indicators were worsening. Lockdowns blocking construction and the difficulties of logistics and fears over investment worsened over recent weeks and will ensure weak data in the immediate future. Completed real estate investment over the first quarter was up 0.7% y-o-y at CNY 2.777 trillion, but growth slowed from 3.7% over January-February. March investment on its own was down 2.4% y-o-y at CNY 1.327 trillion.

Real estate sales fared much worse. Over three months they were down 13.8% y-o-y at 310.46m square metres, while in March they were down 17.7% y-o-y at 153.43m sqm. Other construction indicators also fell. Q1 new starts were down 17.8% at 298.38 sqm, while in March they were down 22.2% at 148.71m sqm. Completions meanwhile were down 11.3% at

188.26m sqm over three months and down 15.5% at 47.26m sqm in March. Alongside this weak activity data, sales prices were also falling sharply. The NBS data implies average realised prices in March were down 10.3% y-o-y at CNY 8052/sqm, the lowest since March 2020.

The sector remains under pressure, with developers skirting the edge of debt defaults despite easier lending rules. Central authorities have been asking banks to roll over debt for struggling firms and support growth in mortgage issuance. Covid however means that projects are on hold in many cities and so the effectiveness of these measures is unlikely to be visible until June or July data at the earliest. Even then, it is uncertain how much of this support will end up in actual construction and steel consumption, and how much will be diverted to sustaining existing debt and employment to avoid wider economic disruption. Despite easier credit flows, the sector remains under heavy pressure this year.

FIGURE 12. REAL ESTATE INVESTMENT GROWTH



Source: NBS, Kallanish (% y-o-y)

AUTOMOTIVE

Restrictions due to outbreaks of Covid across the country in March have halted Chinese automotive production, although the monthly figure rebounded from February's low. March output rose 23.4% month-on-month to 2.24m units, but was still down 9.1% year-on-year, according to data from the China Association of Automotive Manufacturers (CAAM). This took year-to-date output to 6.48m units, up only 2% y-o-y, slower growth than registered in any month last year. Meanwhile, production of new energy vehicles (NEVs) continued to surge and reached a penetration rate of 19.2% in the given month. Three-month production through March scored 142% from a year ago to 1.29m units.

leaving January-March demand at 10.38m with a drop of 6.37% y-o-y. In addition to Covid-induced production restrictions, the chip shortage has seen very little improvement in the reporting month, suppressing China's auto sector. There have also been rising costs because of higher prices of battery raw materials. Considering weakening demand, difficult supply and worsening expectations, CAAM suggests to Chinese authorities that they implement stimulus policies to promote auto consumption, including cutting purchasing taxes in half.

Monthly implied finished steel demand calculated by Kallanish from the CAAM data was up 31.3% m-o-m but was down 19.12% y-o-y respectively at 3.63 million tonnes.

FIGURE 12. AUTOMOTIVE STEEL DEMAND



Source: CAAM, Kallanish (interim/monthly)

WHITE GOODS

China's white goods sector managed a small seasonal pick up in March from February, but y-o-y production was declining as Covid and wider economic concerns began to put pressure on manufacturers. April is expected to see a sharper downturn as Covid lockdowns intensified.

Output of key products was up m-o-m for all products, but y-o-y output was down for refrigerators, freezers and washing machines, and only up marginally for air conditioners. On a year-to-date basis, air conditioners were also the only major product to see an expansion.

Kallanish estimates finished steel demand generated by the sector increased in March to the highest level since last March, but this was due to the seasonal nature of the sector. This was still down 5.8% y-o-y to 1.88m. However, January-March demand is now down 2.7% y-o-y at 5.82m.

FIGURE 14. WHITE GOODS DEMAND



Source: IHS, Kallanish (forecasting)

SHIPBUILDING

China's shipbuilding completions declined slightly year-on-year in the first quarter of 2022, with new orders down significantly but orders in hand surging. According to the China Association of the National Shipbuilding Industry (CANSI), China's shipbuilding completions declined by 1.9% on-year to 5.81 million deadweight tonnes in Q1. This suggests around 3.08m dwt of completions in March only, slightly lower than the average 3.27m dwt completions in Jan-Feb. New orders picked up in March by 4.28m dwt, but this still slumped 42.3% on-year. Orders in hand however increased by 26.3% on-year to 98.1m dwt by the end of March 2022.

Based on Kallanish estimates, steel consumption in March is around 1.06 million tonnes, and total steel consumption in Q1 is 3.32 million tonnes. In the reporting period, China's shipbuilding completions, new orders and orders-in-hand accounted for 46.2%, 48.6% and 47.3% respectively of the world's total in deadweight tonnes.

FIGURE 15. SHIPBUILDING COMPLETIONS



Source: CANSI (announced)



China's steel exports have underperformed at the start of the year, but March started to see volumes pick up. So far this has been driven largely by some of the short-selling seen in late 2021 of early 2022 shipments. Russia's invasion of Ukraine however has upended markets and opened up opportunities for China's exporters. This comes just as import demand plummets due to Covid. China's customs data shows that net steel exports in March were 3.073mt, a m-o-m increase of 52%, but y-o-y decrease of 44%. Through the first three months of this year, year-to-date net exports were down 36% y-o-y at 7.442mt. Exports in March grew 37% on-month, but fell 34% from last year to 4.946mt. Over January-March, exports were down 25% y-o-y at 13.181mt.

FIGURE 16. CHINESE EXPORTS BY REGION

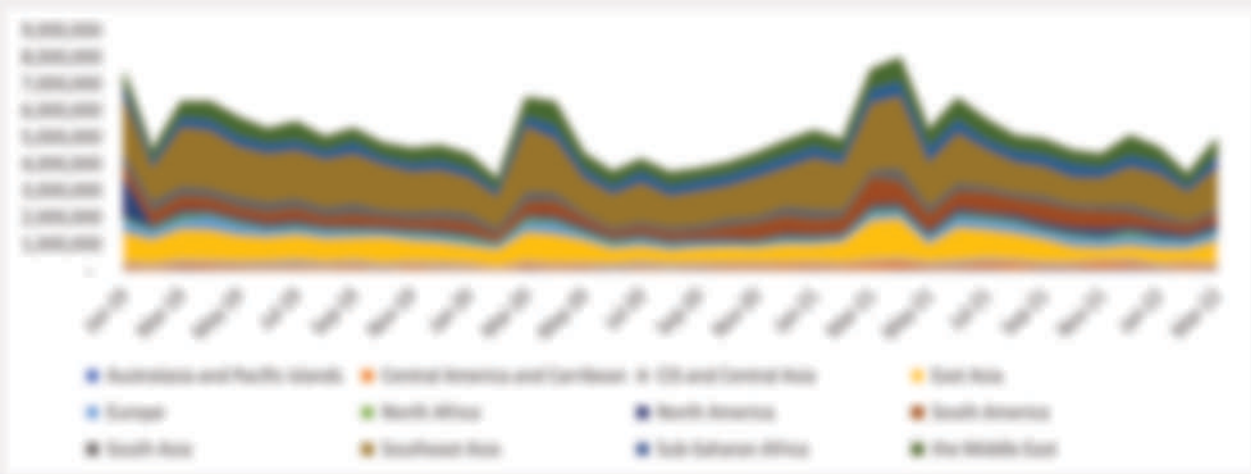
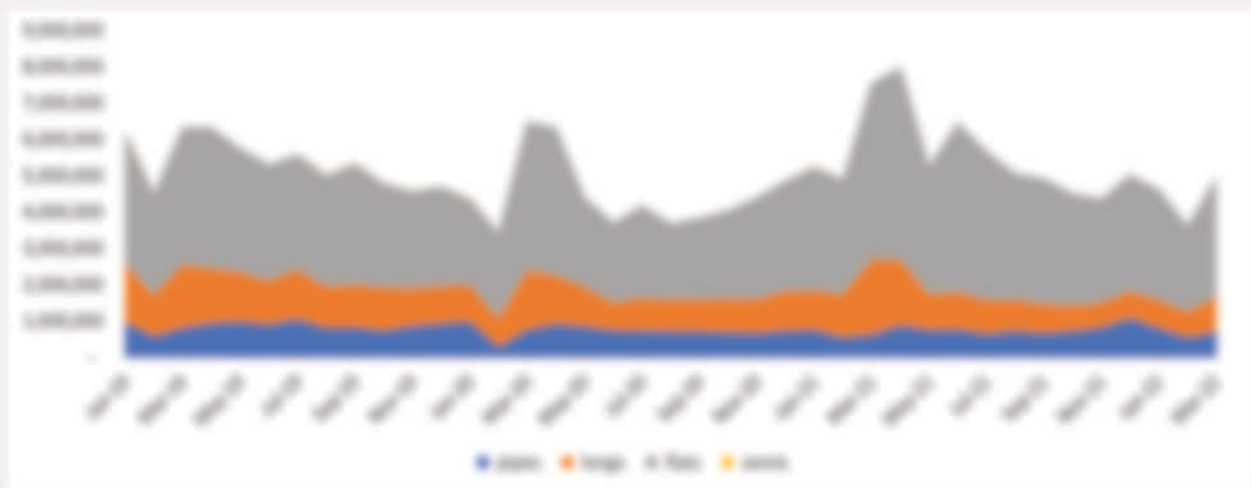


FIGURE 17. CHINESE EXPORTS BY PRODUCT



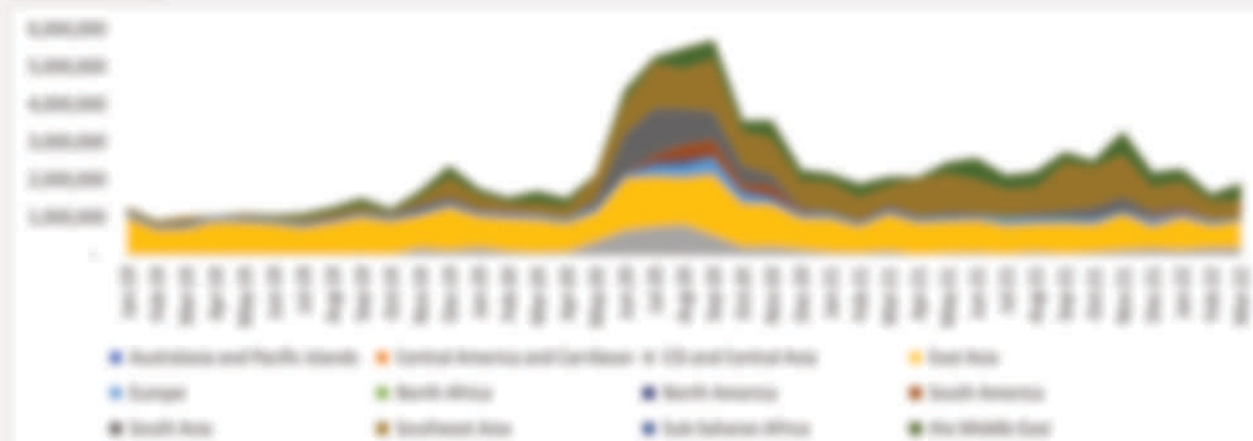
Source: GTI Analysis

Exports to all key regions have been declining. In March, China exported 1.515mt of steel to Southeast Asia, the biggest destination that month. This was up 41% m-o-m, but down 38% y-o-y. Over the first quarter exports to Southeast Asia decreased 34% y-o-y to 4.033mt. The second biggest destination was East Asia, where volumes were up 66% from February this year but down 42% on-year to 872,367t. Three-month volumes decreased 34% to 1.983mt. Another 605,778t went to the Middle East, up 51% from February, but down 11% from March last year. Over three months, the Middle East's volumes were down 11% y-o-y to 1.528mt. Sub-Saharan Africa saw a decrease of 12% m-o-m, but jumped 95% m-o-m to 488,751t. During January-March China's exports to Sub-Saharan Africa diminished 17% y-o-y to 1.21mt.

By product, flats made up the majority of exports from China with 3.268mt, up 37% m-o-m but down 32% y-o-y. Across the opening three months these totalled 8.68mt, down 24% y-o-y. Korea has overtaken Vietnam as the top destination for HRC, even though both destinations saw volumes decline. Of total flat product shipments, China's carbon and alloy steel HRC exports to Vietnam were just 155,214t in March, down 17% m-o-m and 79% y-o-y. Over Q1 this totalled 622,561t, down 61% y-o-y. Carbon and alloy steel HRC exports to Korea meanwhile were 200,878t in March, a m-o-m climb of 63%, but a y-o-y fall of 17%. Over three months China exported 418,943t of these products to Korea, up 1% y-o-y. Global exports of galvanized steel coils in March increased 46% m-o-m, but were still down 14% y-o-y at 952,433t, bringing their 3-month total down 18% y-o-y to 2.465mt. Global March carbon and alloy CRC exports reached 342,343t, up 18% m-o-m but still down 45% y-o-y. Over three months, carbon and alloy CRC shipments fell 19% y-o-y, hitting 980,554t.

The volume of longs exported by China jumped 40% from February but was down 53% on-year to 969,838t. Over January-March combined longs exports were down 44% at 2.429mt. China also saw March pipe exports of 705,883t, a 29% m-o-m and 13% y-o-y increase. Through Q1 2021 combined pipe exports increased 6% to 2.061mt. The volume of semis exported saw a 9% m-o-m decline but a 651% y-o-y increase to 948t. Semi exports totalled 1,564t over three months, up 52% y-o-y.

FIGURE 16. CHINESE EXPORTS BY REGION



Source: ITC Kallanish

Meanwhile, imports in March gained 17% m-o-m, but still dropped 9% y-o-y to 1.873mt. This means that imports over Q1 were down 5% to 5.738mt.

China imported 720,001t of steel from East Asia in March, an increase of 17% m-o-m but a decrease of 28% y-o-y. China imported a combined 2.217mt of East Asian steel over three months, down 18% y-o-y. Imports from Southeast Asia fell 10% m-o-m and 16% y-o-y to 452,198t. During Q1 these imports were down 18% y-o-y to 1.608mt. China also imported 408,817t of the Middle East's steel, a rise of 151% m-o-m and 34% y-o-y. During January-March it imported 885,978t from the Middle East, an increase of 21% y-o-y. The fourth

biggest exporter to China was CIS and Central Asia, which shipped 193,963t of steel to China, up 3% m-o-m and 70% y-o-y. Over January-March the volume of exports increased 113% to 515,362t.

By product, semis were the largest group in March, but commodity semis imports from Vietnam have become less important as Indonesia and the Middle East grow their market share. China reported semis imports of 861,543t, an increase of 34% m-o-m and 17% y-o-y. Semis imports reached 2,521mt over three months, up 7% y-o-y. Of this total, China imported 29,542t of semis from Vietnam in March, growing 49% m-o-m, but falling 80% from last year. Over 3 months it imported \$1,548t of Vietnamese semis, down 80% from a year earlier. China also imported 165,324t of Indonesian semis in March, a decrease of 25% from the previous month, but up 75% on-year. Over January-March, meanwhile, these imports totalled 436,543t, up 58% y-o-y. The Middle East was the largest supplier of semis in March, with 404,735t, up 151% m-o-m and 98% y-o-y, whilst through January-March imports of Middle Eastern semis were \$77,686t, up 22% y-o-y.

China also reported March flats imports of 732,258t, a m-o-m growth of 6% but a y-o-y decline of 27%. Total flats imports were down 14% to 2,355mt over Q1. Japan remains a key supplier. In March, 183,308t of their carbon and alloy steel HRC was imported by China, a m-o-m rise of 16%, but a y-o-y decline of 19%. Over the year to March, China imported 527,810t of Japanese carbon and alloy steel HRC, a decrease of 7% y-o-y.

China imported 249,556t of longs, a 4% increase from February but a 10% dip y-o-y. Longs imports totalled 777,548t over three months, down 11% on-year. China also imported 29,520t of pipes, rising 42% m-o-m but down 28% y-o-y, while imports over the first three months this year were down 17% to 85,863t.

FIGURE 16. CHINESE IMPORTS BY REGION



FIGURE 16. CHINESE IMPORTS BY PRODUCT



Source: GTI Research



MARKETS

April has seen Chinese steel prices sheltered from the global storm, but also trapped between hopes for stimulus and fears over Covid. Domestic spot prices moved little or fell slightly over the month despite, or in part because of, disruptions to trading due to lockdowns. Raw materials prices meanwhile have remained elevated, with the support of very tight global markets following the disruption caused by war in Ukraine. China has however benefitted from higher international steel prices, with exports becoming competitive in several markets.

LONGS

After an increase in early April, Chinese rebar prices again retreated to finish the month little changed from end-March. 20mm HPB400 rebar was trading at CNY 4,780-4,800/t (\$716-719/t) for Shanghai by the end of the month, up CNY 20/t from the end of March but down CNY 50/t from the middle of the month. Rebar markets remain severely disrupted, especially around Shanghai. A number of cities have followed Shanghai into various stages of lockdown, most of which involve the closure of construction sites. Logistics also remain problematic, with drivers avoiding routes that have stringent testing rules to avoid losing business. Beijing too is now facing mounting restrictions, but one of the biggest problems for traders is that new outbreaks can disrupt trade in new areas overnight with no effective way to predict when and where they may happen.

Chinese wire rod export prices meanwhile fell during April as exporters became internationally more competitive. Lockdowns also pushed some producers to engage more actively in export markets as export logistics were sometimes easier to arrange than domestic. By the end of April, 6.5mm diameter mesh grade wire rod was trading at \$825/t fob, compared to \$840/t fob at the end of March. Export offers were also eased lower by the falling value of the CNY relative to the rising US dollar.

TABLE 2: LONGS PRICES

	2021	y-o-y	Mar-22	Apr-22	Mo-m	Y-o-y
Rebar (CNY/t)	4,878	29.5%	4,750	4,820	1.5%	-2.3%
Wire rod fob (\$/t)	783	58.7%	835	834	-0.1%	10.8%

Source: Kallanish

FIGURE 26. LINGKE PRICES



Source: Kallanish



FLATS

Chinese hot rolled coil prices held up less well than rebar, in part because of a hit to manufacturing demand first in the northeast and then in the region around Shanghai due to lockdowns. At the end of April, 5.5mm Q235 HRC was trading at CNY 5,000-5,030/t for Shanghai, down from CNY 5,230-5,250/t at the end of March. Many industrial cities remain under lockdown in early May, although there has been a renewed focus on getting factories running again. This may help a recovery in demand in May, but the seasonal peak demand in Q2 has now been thoroughly disrupted. Traders are hoping that stimulus will bring prices higher again in the coming months.

Export offers meanwhile have also fallen on lower domestic prices and a favourable move in the CNY/USD exchange rate. This has kept Chinese HRC competitive despite international prices starting to come off recent peaks in late April. 2mm× SAE1008 HRC was trading at \$820-830/t fab at the

end of April, down from \$855-865/t at the end of March. Material has been locked over the last month to most major markets, including Europe and the GCC, suggesting export volumes should be growing further.

TABLE 5. FLATS PRICES

	2021	y-o-y	Mar-22	Apr-22	W-o-m	Y-o-y
HRC (CNY/t)	5,320	40.9%	5,166	5,201	0.7%	-7.1%
HRC fab (\$/t)	834	70.4%	878	882	0.4%	3.8%

FIGURE 21. FLATS PRICES



Source: Kallanish

RAW MATERIALS

Seaborne iron ore prices were on a rollercoaster in April. Yes, another one. They peaked early in the month before sliding, and then seeing a massive \$12.8/t correction in a single day, the biggest one-day movement since October. After global supply tightness and the war in Ukraine drove prices higher in March, April was driven more by the emerging chaos of China's Covid outbreaks. The single day drop came as markets lost confidence across the board and where and other commodity prices also plummeted. The Kallanish KORE 62% Fe index ended April at \$142.35/dry metric tonne cfr Qingdao, \$14.56/t lower than at the end of March. The Kallanish KORE 60% Fe index dropped \$15.72/t over the month to \$167.11/dmt cfr, and the KORE 58% Fe index fell \$8.55/t to \$126.26/dmt cfr.

Iron ore port stocks fell over the month. By the start of May, stocks across 35 ports were 140.05m deadweight tonnes, down 9.25m dwt from the end of March. This was in part because blast furnaces have mostly continued to operate, restocking by mills took place ahead of the Labour Day holiday, and the opening of cities such as Tangshan after lockdowns led to higher buying. However, low port stocks are also in part because of disruptions to unloading at ports and

backlogs of ships waiting to dock. Some inventory is therefore 'trapped' offshore. Expectations for stimulus remain key for both stocks and prices in the coming month, as mills are producing largely for expected future demand.

China's domestic scrap prices have not been as volatile as iron ore. Although prices increased over March to mid-April, the increase was limited by low utilisation at EAFs. The subsequent decline in prices was also more modest, as lockdowns have also severely impacted collection. EAFs are able to react to lockdowns and fluctuating demand with much greater flexibility than blast furnace producers. With China so keen to stimulate production however, there may still be an incentive to overproduce, which may continue to support scrap prices. Green-heavy scrap delivered to mills in the Yangtze River Delta closed April at CNY 3,894/t, up CNY 86/t from the end of March, but down CNY 55/t lower than a peak on 19 April.

International scrap prices meanwhile have come off recent highs. Chinese import prices have moved less dramatically than prices to Turkey, but nevertheless followed the trend. At the end of April, HRS101 scrap prices were \$280-600/t cfr China, down from \$640/t cfr at the end of March.

TABLE 4. RAW MATERIALS PRICES

	2021	y-o-y	Mar-22	Apr-22	Mo-m	Y-o-y
KORE 62% Fe iron ore (5/dmt)	159	71.4%	150	153	2.4%	-12.5%
KORE 60% Fe iron ore	185	76.9%	179	177	-0.9%	-14.4%
KORE 58% Fe iron ore	136	62.3%	130	126	-4.3%	-12.9%
Yangtze delta heavy scrap	3,526	34.2%	3,721	3,916	5.3%	13.3%

Source: Kallanish

FIGURE 22. RAW MATERIALS PRICES



Source: Kallanish


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COMMODITIES

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Steel Data:	Dec	Jan	Feb	Mar
Crude steel production	86.19	82.99	74.96	88.30
Steel exports	5.06	4.81	3.82	4.95
Steel imports	2.17	2.27	1.80	1.87
Apparent steel consumption	79.02	78.53	69.22	80.84
Calculated real demand	86.45	87.34	40.81	83.17

INFLATION



Macro data:	Dec	Jan	Feb	Mar
Manufacturing PMI (NBS)	50.30	50.10	50.20	49.50
Manufacturing PMI (Caixin)	50.90	49.10	50.40	48.10
CPI	1.50%	0.90%	0.90%	1.50%
PPI	10.30%	9.10%	8.80%	8.30%
F&I (CNY trillion)	54.45		5.08	10.49
Industrial Value-added	4.30%		7.50%	5.00%

MANUFACTURING PMI



Downstream data:	Dec	Jan	Feb	Mar
Real estate investment *	14,760	14,760	1,450	2,777
New Construction starts ytd**	1,989	1,989	150	298
Completed construction ytd**	1,014	1,014	122	189
Real estate sales ytd**	1,794	1,794	157	310

*CNY billion **million square metres

SAMPLE



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