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BYD Company (1211 HK)

Strong sales momentum, low assets efficiency

Maintain HOLD. BYD's sluggish gross margin for its business in FY21 despite 83% YoY growth in sales volume raises our concerns about its profitability in FY22E. On the other hand, BYD's strong sales volume momentum now backs up its share price and makes investors pay less attention to its 4Q21 earnings miss. we revise up our sales volume forecasts but lower net profit estimates for FY22-23E. BYD's heavy capex (RMB 51.4bn in FY21) is likely to continue, in our view, which could start to weigh on its margins in the next 2-3 years.

- 4Q21 earnings miss. Despite a 40% QoQ sales volume growth, BYD's net profit dropped 27% QoQ to RMB 602mn in 4Q21, 41% lower than our prior forecast, mainly due to higher-than-expected business tax and R&D expenses. We estimate that BYD's auto business (excluding mask, monorail and semiconductor) gross margin narrowed by 0.4 ppts to 14.5% in FY21 despite 83% YoY growth in sales volume, which raises our concerns about its profitability in FY22E, especially with heightened raw-material prices.
- Strong NEV order backlog. Management indicates that the current order backlog has exceeded 400,000 units and demand for both *Dolphin BEV* and *Yuan Plus BEV* are over 30,000 units per month during the earnings call. Management also expects the *Han BEV* and PHEV combined to reach monthly volume of 30,000 units after the launch of the DM-i version. All of these exceeded our prior estimates. On the other hand, production capacity could cap its deliveries. Accordingly, we revise up our sales volume forecasts from 0.99mn/1.04mn units to 1.44mn/1.55mn units for FY22/23E, respectively. In our view, BYD's strong sales volume momentum now backs up its share price and makes investors pay less attention to its 4Q21 earnings miss.
- High NEV penetration in March may not be sustainable, which could result in BYD's share price volatility. NEV market share reached a record high of 31% in the first four weeks of Mar 2022, based on our weekly retail sales data, much higher than our prior estimates. Should investors extrapolate YTD data with a similar pattern from 2021, NEV market share could exceed 40% in full 2022. We believe the NEV pattern should be different from last year and we see NEV sales volatility for the rest of the year. Therefore, BYD, as an NEV proxy in our view, may experience share price volatility along with investors' expectation revisions on NEVs.

Earnings Summary

(YE 31 Dec)	FY19A	FY20A	FY21A	FY22E	FY23E
Revenue (RMB mn)	127,739	156,598	216,142	305,841	322,950
YoY growth (%)	(1.8)	22.6	38.0	41.5	5.6
Net income (RMB mn)	1,614	4,234	3,045	5,261	7,100
EPS (RMB)	0.50	1.47	1.06	1.81	2.44
YoY growth (%)	(41.9)	162.3	(28.1)	72.7	35.0
P/E (x)	366.0	123.6	172.0	100.7	74.6
P/B (x)	9.3	9.3	5.6	5.3	5.0
Yield (%)	0.2	0.2	0.1	0.1	0.1
ROE (%)	2.9	7.5	4.0	5.4	6.9
Net gearing (%)	71.3	25.9	Net cash	Net cash	Net cash

Source: Company data, Bloomberg, CMBIGM estimates

HOLD (Maintain)

Target Price (Previous TP HK\$ 255.00 HK\$ 270.00)
Up/Downside +13.6%
Current Price HK\$ 224.40

China Auto Sector

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Stock Data

Mkt Cap (HK\$ mn)	653,260
Avg 3 mths t/o (HK\$ mn)	1,786
52w High/Low (HK\$)	324.60/138.40
Total Issued Shares (mn)	2,911
Source: Bloomberg	

Shareholding Structure

Wang Chuanfu	17.6%
Lv Xiangyang	8.2%
Berkshire Hathaway	7.7%
Others	66.4%

Source: HKEx

Share Performance Absolute Relative 1-mth -6.2% -4.6%

 1-mth
 -6.2%
 -4.6%

 3-mth
 -15.8%
 -9.8%

 6-mth
 -7.7%
 2.8%

 Source: Bloomberg

12-mth Price Performance



Auditor: GrantThornton

Related Reports

"BYD Company - Do you want one champion or four runners-up?" – 13 Jan 2022



■ Earnings revision. BYD's audited annual sales volume in FY21 was only about 19,000 units lower than its aggregated monthly sales volumes, better than the gaps of 32,000-86,000 units in FY14-20, reflecting improving management capabilities, although we do not see such gaps in its peers. We raise our revenue estimates by 8-16% for FY22-23E, respectively to reflect our higher sales volume forecasts now. We see low chance of significant margin improvement in FY22E for BYD given its low assets efficiency and heightened raw-material prices. We cut gross margin estimates by 2.0-2.5 ppts to 13.0% and 14.0% for FY22/23E, respectively.

BYD spent RMB 51.4bn as capex in FY21, 3x higher than that in FY20. We expect such heavy investments to continue in FY22E for capacity expansion and R&D. The associated depreciation and amortization could weigh on the company's profitability in the following 2-3 years. It could be even worse if BYD's model cycle starts to deteriorate some time, which happened to Geely Automobile Holdings (175 HK, HOLD) during FY19-21. We cut our net profit estimates by 30-31% to RMB 5.3bn/7.1bn, respectively, for FY22/23E.

■ Valuation/Key risks. We maintain our HOLD rating and arrive at our new target price of HK\$ 255 (from HK\$ 270) based on sum-of-the-parts (SOTP).

We value HK\$ 203 per share for BYD's auto business, equivalent to 2.5x our FY22E NEV revenue. We believe a slight valuation discount to Li Auto (LI US, BUY), Xpeng (XPEV US, BUY) and NIO (NIO US, BUY), which are now trading at 3-4x FY22E P/S, is justified, given BYD's lag in autonomous driving technologies and lower assets efficiency.

We value HK\$ 31 per share for BYD's battery segment, based on 5x our FY23E P/S including consumer electronics batteries and photovoltaic, or 17x FY23E P/S on our estimated external EV battery revenue at BYD.

We value HK\$ 8 per share for BYD's handset business, based on BYDE (285 HK, HOLD)'s current market cap of HK\$ 35.6bn, given the gloomy outlook for FY22E.

We value HK\$ 12 per share for BYD's semiconductor business, equivalent to 10x FY23E P/S on our estimated external semiconductor sales.

Key risks to our rating and target price include higher or lower NEV sale volume, faster or slower battery external supply progress than we expect, as well as sector re-rating or de-rating.

Figure 1: Quarterly results

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RMB mn	1Q20	2Q20	3Q20	4Q20	1Q21	2Q21	3Q21	4Q21	YoY	QoQ
Sales volume (units)	61,273	97,355	110,347	157,997	104,145	142,544	206,055	287,387	81.9%	39.5%
Revenue	19,679	40,824	44,520	51,575	40,992	49,894	54,307	70,950	37.6%	30.6%
Gross profit	3,475	8,382	9,935	8,555	5,163	6,438	7,238	9,306	8.8%	28.6%
R&D expenses	(757)	(1,769)	(2,366)	(2,573)	(1,217)	(1,778)	(2,238)	(2,757)	7.2%	23.2%
SG&A expenses	(1,626)	(2,399)	(2,603)	(2,748)	(2,410)	(2,649)	(2,983)	(3,750)	36.4%	25.7%
Operating profit	375	2,574	2,852	1,285	646	1,570	1,653	763	-40.6%	-53.8%
Net profit	113	1,550	1,751	821	237	936	1,270	602	-26.6%	-52.6%
Gross margin	17.7%	20.5%	22.3%	16.6%	12.6%	12.9%	13.3%	13.1%	-3.5 ppt	-0.2 ppt
Operating margin	1.9%	6.3%	6.4%	2.5%	1.6%	3.1%	3.0%	1.1%	-1.4 ppt	-2.0 ppt
Net margin	0.6%	3.8%	3.9%	1.6%	0.6%	1.9%	2.3%	0.8%	-0.7 ppt	-1.5 ppt

Source: Company data, CMBIGM



Figure 2: Earnings revision

	Ne	•W	C	Old	Diff (%)		
RMB mn	FY22E	FY23E	FY22E	FY23E	FY22E	FY23E	
Revenue	305,841	322,950	264,217	299,234	15.8%	7.9%	
Gross profit	39,628	45,062	39,879	46,215	-0.6%	-2.5%	
Operating profit	7,115	9,647	10,117	13,733	-29.7%	-29.8%	
Net profit	5,261	7,100	7,499	10,276	-29.9%	-30.9%	
Gross margin	13.0%	14.0%	15.1%	15.4%	-2.1 ppt	-1.5 ppt	
Operating margin	2.3%	3.0%	3.8%	4.6%	-1.5 ppt	-1.6 ppt	
Net margin	1.7%	2.2%	2.8%	3.4%	-1.1 ppt	-1.2 ppt	

Source: CMBIGM estimates

Figure 3: CMBI estimates vs consensus

RMB mn	CME	BIGM	Cons	sensus	Diff ((%)
	FY22E	FY23E	FY22E	FY23E	FY22E	FY23E
Revenue	305,841	322,950	299,835	370,758	2.0%	-12.9%
Gross profit	39,628	45,062	46,265	59,162	-14.3%	-23.8%
Operating profit	7,115	9,647	13,747	18,355	-48.2%	-47.4%
Net profit	5,261	7,100	7,285	10,550	-27.8%	-32.7%
Gross margin	13.0%	14.0%	15.4%	16.0%	-2.5 ppt	-2.0 ppt
Operating margin	2.3%	3.0%	4.6%	5.0%	-2.3 ppt	-2.0 ppt
Net margin	1.7%	2.2%	2.4%	2.8%	-0.7 ppt	-0.6 ppt

Source: Bloomberg, CMBIGM estimates

Figure 4: SOTP valuation table

Segment	Estimated Revenue of FY22E (RMB mn)	Estimated Revenue of FY23E (RMB mn)	Target P/S Multiple	Target Market Cap (HK\$ mn)	Target Price (HK\$)
NEV	189,629		2.5x	592,272	203
Battery and photovoltaic		20,887	3.5x	89,738	31
- External sales of EV battery		4,487	16x		
Handset				23,411	8
External sales of semiconductor		3,000	10x	35,895	12
SOTP				741,317	255

Source: CMBIGM estimates



Financial Summary

Income statement						Cash flow summary					
YE 31 Dec (RMB mn)	FY19A	FY20A	FY21A	FY22E	FY23E	YE 31 Dec (RMB mn)	FY19A	FY20A	FY21A	FY22E	FY23
Revenue	127,739	156,598	216,142	305,841	322,950	Profit before taxation	2,431	6,883	4,518	6,965	9,49
Cost of sales	(106,924)	(126,251)	(187,998)	(266,213)	(277,888)	Depreciation/amortization	9,840	12,519	14,108	15,831	17,71
Gross profit	20,814	30,346	28,145	39,628	45,062	Change in working capital	(1,721)	21,399	44,083	(18,102)	(1,423
						Others	4,191	4,592	2,757	3,009	2,00
Selling exp.	(4,346)	(5,056)	(6,082)	(8,723)	(9,338)	Net cash from operating	14,741	45,393	65,467	7,703	27,78
Admin exp.	(4,141)	(4,321)	(5,710)	(7,822)	(8,444)						
R&D exp.	(5,629)	(7,465)	(7,991)	(10,800)	(12,000)	Capex	(20,627)	(11,774)	(37,344)	(25,230)	(25,530
Others	(4,386)	(6,419)	(3,730)	(5,167)	(5,633)	Others	(254)	(2,670)	(8,060)	(900)	(990
Operating profit	2,312	7,086	4,632	7,115	9,647	Net cash from investing	(20,881)	(14,444)	(45,404)	(26,130)	(26,520
Non-operating income	226	282	338	300	300	Share issuance	-	-	37,314	-	
Non-operating expenses	(107)	(485)	(452)	(450)	(450)	Net borrowings	9,879	(24,490)	(17,006)	(628)	1,41
Pre-tax profit	2,431	6,883	4,518	6,965	9,497	Others Net cash from financing	(3,269) 6,610	(4,418) (28,907)	(4,245) 16,063	(1,664) (2,292)	(2,783 (1,36 9
Tax	(312)	(869)	(551)	(959)	(1,306)						
Minority interests	(504)	(1,780)	(922)	(745)	(1,091)	Net change in cash	470	2,041	36,125	(20,720)	(100
Net profit	1,614	4,234	3,045	5,261	7,100	Cash at beginning of the year	11,151	11,674	13,738	49,820	29,10
						Exchange difference	53	23	(44)	-	
						Cash at the end of the year	11,674	13,738	49,820	29,100	29,00
Balance sheet						Key ratios					
YE 31 Dec (RMB mn)	FY19A	FY20A	FY21A	FY22E	FY23E	YE 31 Dec	FY19A	FY20A	FY21A	FY22E	FY23
Current assets	106,967	111,605	166,110	175,874	184,525	Sales mix (%)					
Cash & equivalents	12,650	14,445	50,457	30,000	30,000	Automobile	49.5	53.6	52.0	65.7	63.
Account receivables	50,943	50,079	44,994	60,540	63,926	Handset	41.8	38.3	40.0	28.4	30.
Inventories	25,572	31,396	43,355	58,348	62,430	Battery & others	8.7	8.0	8.0	5.8	6.
Other current assets	17,802	15,685	27,304	26,986	28,169						
						Growth (%)					
Non-current assets	88,675	89,412	129,670	140,815	150,203	Revenue	(1.8)	22.6	38.0	41.5	5.
PP&E	49,443	54,585	61,221	67,758	72,794	Gross profit	(2.4)	45.8	(7.3)	40.8	13.
Intangibles	12,716	11,870	17,171	16,657	16,079	Operating profit	(45.5)	206.4	(34.6)	53.6	35.
Investment in JVs&assos	4,060	5,466	7,905	9,075	10,285	Net profit	(41.9)	162.3	(28.1)	72.7	35.
Other non-current assets	22,455	17,492	43,373	47,325	51,045						
Total assets	195,642	201,017	295,780	316,688	334,728	Profit & loss ratio (%)					
						Gross margin	16.3	19.4	13.0	13.0	14.
Current liabilities	108,029	106,431	171,304	178,892	186,131	Operating margin	1.8	4.5	2.1	2.3	3.
Bank borrowings	45,330	16,401	10,204	9,311	3,726	Net profit margin	1.3	2.7	1.4	1.7	2.
Account payables	22,521	42,983	73,160	87,522	91,360						
Contract Liabilities	4,504	8,193	14,934	14,587	3,426	Balance sheet ratio					
Other current liabilities	35,674	38,854	73,006	67,472	87,619	Net cash/total equity (x)	(0.7)	(0.3)	0.3	0.1	0.
						Current ratio (x)	1.0	1.0	1.0	1.0	1.
Non-current liabilities	25,011	30,133	20,232	26,848	29,959	Receivable turnover days	172	136	94	85	8
Bank borrowings	11,948	14,745	8,744	11,744	13,744	Inventory turnover days	87	91	84	80	8
Bond payables	9,969	8,880	2,046	5,046	6,046	Payable turnover days	123	150	156	150	15
Other non-current liabilities	3,095	6,507	9,442	10,058	10,169						
Total liabilities	133,040	136,563	191,536	205,741	216,090	Profitability (%)					
						ROE	2.9	7.5	4.0	5.4	6
Share capital	2,728	2,728	2,911	2,911	2,911	ROA	0.8	2.1	1.2	1.7	2
Reserves	49,640	53,052	92,159	97,213	103,888						
Non-controlling interests	5,839	7,580	9,175	10,823	11,840	Per share data (RMB)					
Shareholders' equity	56,762	56,874	95,070	100,125	106,799	EPS	0.50	1.47	1.06	1.81	2.4
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Source: Company data, CMBIGM estimates



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