

# Bharat Forge (BHFC IN, CMP: Rs297, Not Rated)

Passing through the transition phase



# Bharat Forge – passing through the transition phase

BHFC IN, CMP: Rs297

Not Rated



- Targeting consolidated revenue CAGR of 20% over FY11-13; aim at 60% of revenue from non-auto segment at the standalone level:** Bharat Forge (BHFC IN) targets a 20% consolidated revenue CAGR over FY11-13, led by demand recovery in the domestic market, higher revenue contribution from machined components and rising demand for forged components related to shale gas exploration/production in the US. Automotive forging demand from the EU and US is robust YTD, with exports and foreign subs revenue both up by more than 60% y-y, although management believes this robust growth is primarily owing to low base. It has guided for capacity utilization at foreign subs at around 50-55% along with a 15-20% sales CAGR at FAW China (a 52% stake) over FY11-13. Management expects revenue contribution at 60% from the non-auto business by FY14, with current utilization at Baramati non-auto forging facility at around 45%. Sales from Alstom JV is expected to kick-start from FY14 onwards. EPC business sales is expected at Rs8 bn in FY12-13.
- Increase machining capacity by 55% by the end of FY12:** With machining capacity set to increase by 55% from FY13 to 1.25 mn units, management expects the machined component revenue contribution to improve from the existing 40% levels to at least 50% from FY13 at the standalone level. Steel forging capacity is set to increase by 10% to 400,000 MT at the standalone level, with incremental capacity coming in primarily led by debottlenecking at the existing plant at Mundhwa. Management expects standalone capacity utilization to remain around 65% levels in FY12-13.
- Standalone EBITDA margin target at ~22-24% and foreign subs margin at a minimum of 10%:** Management targets a standalone EBITDA margin of ~22-24% over FY11-13, with a gradual improvement in capacity utilization at the Baramati facility and higher mix of machined component revenue. We expect gross profit/tonne to improve by at least 5% from the current levels of Rs80,000/tonne led by a rise in higher-margin machined component revenue contribution. Management targets for at least 10% EBITDA margin from foreign subs. We believe a lack of infrastructure for machined components at foreign subs facilities is one reason for their lower margin. We expect consolidated EBITDA margin to be in the range of 15-16% over FY12-13E.
- Capex and investment of Rs5 bn in FY12-13; FCCB redemption of US\$130 mn in FY13-14:** Capex for FY12-13 is at Rs3 bn, primarily for expanding forging and machining capacity by 10% and 55%, respectively. Investment at Rs2 bn is to cater to the remaining equity stakes in various JVs. Redemption of US\$130 mn, including premium, is due in FY13-14.

## Financials and valuation

	Revenue		EBITDA		Adjusted net income		EPS (Rs/share)	P/E (x)	EV/EBITDA (x)	ROCE (%)	ROE (%)
	(Rs mn)	Growth(%)	(Rs mn)	Margin (%)	(Rs mn)	Growth(%)					
FY10	33,428	(30.2)	2,458	7.4	(633)	NA	(2.8)	NA	30.5	0.0	(4.1)
FY11	51,080	52.8	7,894	15.5	2,898	NA	12.4	23.9	9.6	13.8	17.2
FY12E	61,963	21.3	9,904	16.0	4,102	41.5	17.6	16.9	7.4	18.2	19.8
FY13E	69,049	11.4	10,356	15.0	4,386	6.9	18.8	15.8	6.7	18.9	18.3

Note: Pricing as on 07 September 2011; Source: Company data, Quant Global Research estimates

<b>Market cap:</b>	<b>Rs63.6 bn (US\$1.4 bn)</b>
52-week high/low:	Rs413/Rs259
Share o/s:	233 mn
Share o/s (fully diluted):	233 mn
Avg daily trading vol (3m):	473 ('000)
Avg daily trading val (3m):	Rs142 mn (US\$3.1 mn)

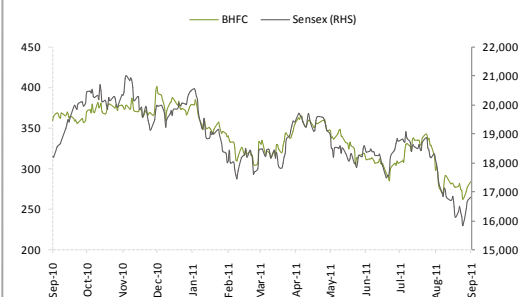
Source: Bloomberg

## Shareholding pattern (%)

	Jun-11	Mar-11	Dec-10
Promoters	42.1	42.1	42.1
FIIIs	12.2	12.4	14.1
DIIIs	19.6	19.7	18.8
Others	26.2	25.9	25.0

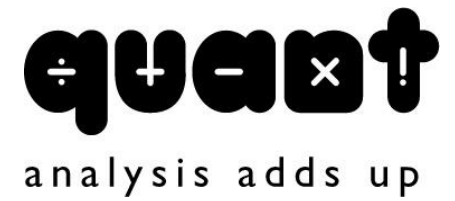
Source: BSE

## Price movement (Rs) vs the Sensex



Source: Bloomberg

# Business update



# BHFC – management targets non-auto revenue of ~60% by FY14

Key issue: domestic demand recovery against rising uncertainty from foreign markets

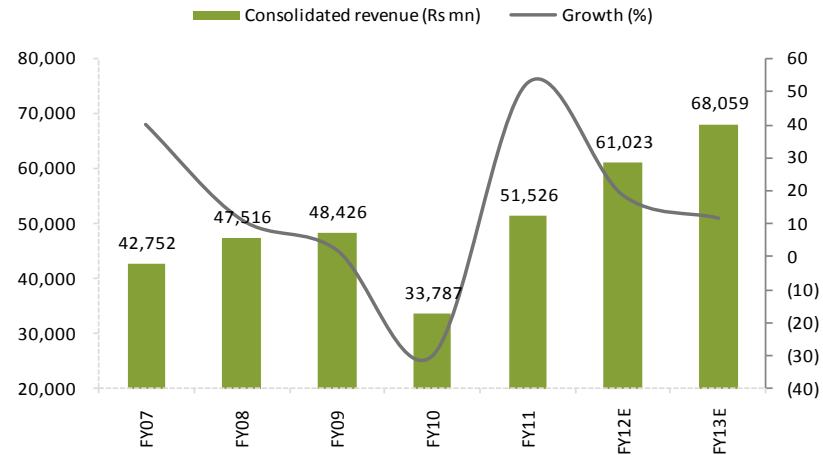


Management expects to sustain domestic demand, although rising economic uncertainty in the EU and the US remains a key concern

## Present revenue scenario and outlook

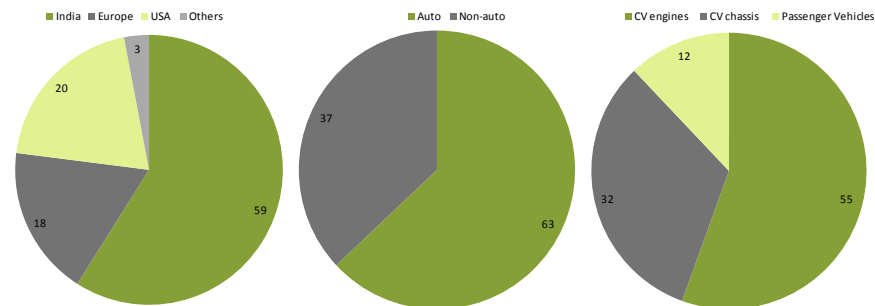
- Standalone revenue is getting bolstered by rising non-auto revenue, contributing 37% currently vs. 25% a year ago, despite relatively sluggish automotive demand. Management says there is sizeable scope for demand growth in the non-auto segment portfolio led by sectors like oil & gas, wind power and aviation. This is helping BHFC remain partially insulated from the relative slowdown in domestic CV demand. Exports contribute ~50% of the non-auto revenue in the standalone entity.
- Management plans to expand standalone forging capacity to 0.4 mn tonnes from 0.365 mn tonnes by FY12-end along with increasing machining capacity from 0.80 mn units to 1.25 mn units. The Baramati non-auto facility is running at ~45% utilization currently vs 70% utilization at the Mundhwa facility.
- FAW China (a 52% stake) is currently running at around 55% capacity utilization along with other foreign subs, which are running at around ~50% utilization levels. Management says the breakeven capacity utilization level at the foreign subs has reduced to 35-40% from 45-50%, after the restructuring of fixed overhead expenses in FY11.
- We do not expect any revenue from JVs with Alstom and NTPC at least until end of FY13, although fresh foray in the EPC segment is set to derive revenue of Rs8 bn in FY12-13E.
- We are modeling in 12% y-y growth in consolidated sales in FY13E to Rs69 bn, after factoring in a 5% revenue contraction at subs. level. We expect standalone revenue to contribute 67% of consolidated revenue and India to contribute 62% of standalone revenue, signifying India contributing ~41% of consolidated revenue in FY13E.

We are expecting a revenue CAGR of 16% over FY11-13E



Source: Company data, Quant Global Research estimates

Revenue contribution from India, the non-auto segment and CV set to move up

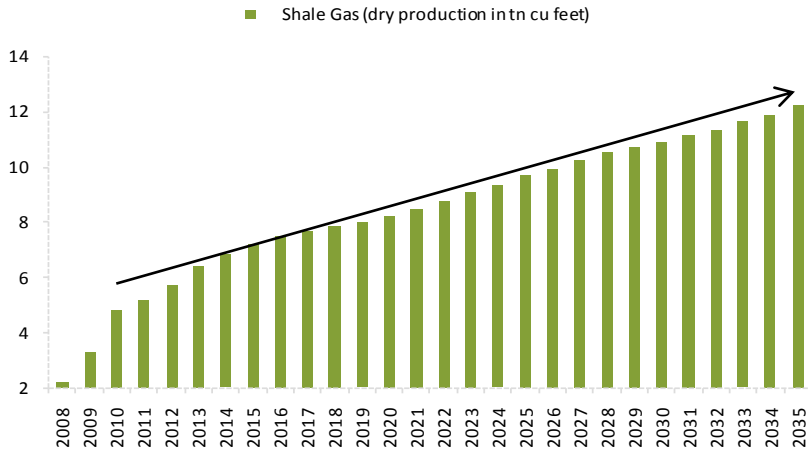


Source: Company data, Quant Global Research

# BHFC – domestic demand set to improve; tapping shale gas growth potential can reduce cyclicalty for foreign subsidiaries

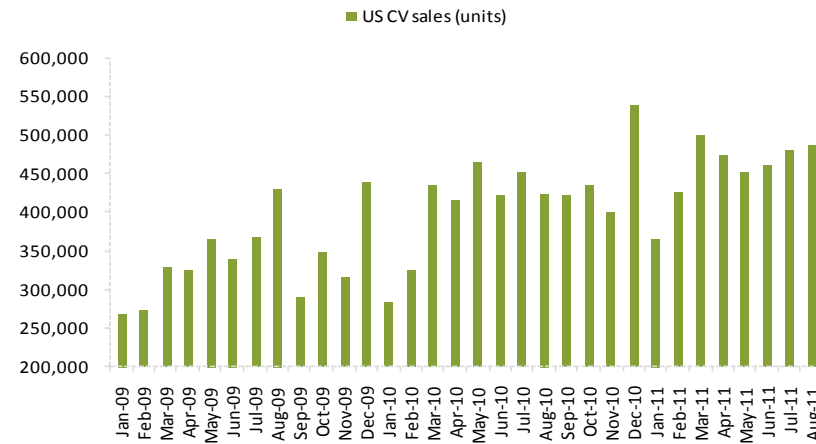


Sizeable potential in the US for BHFC with regards to rising production of shale gas



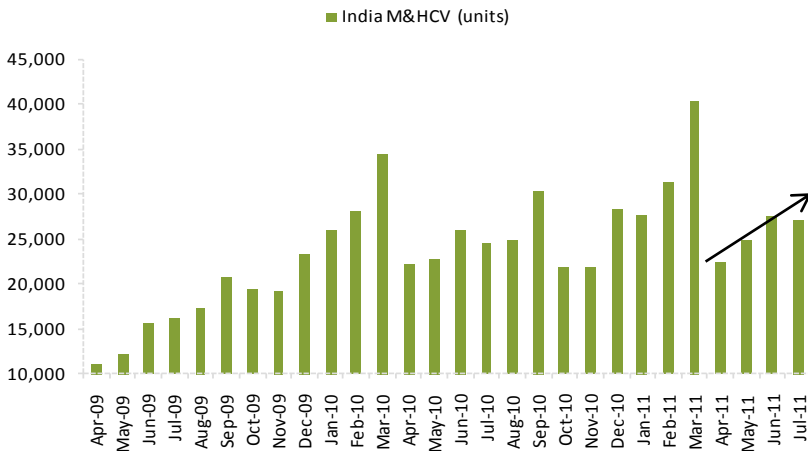
Source: EIA

Monthly CV sales trend in the US (excluding imported units)



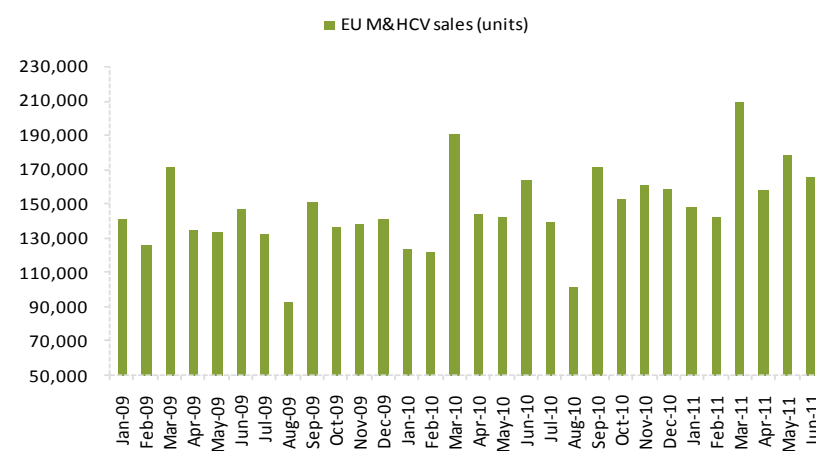
Source: Bloomberg

India M&HCV sales on a strong footing despite adverse macro situation



Source: SIAM

Monthly CV sales trend in the EU: growing on a lower base



Source: : Bloomberg

# BHFC – higher machining capacity vs worsening economies of scale

Uncertainty in the EU and the US can lead to a risk of sluggish utilization at the subs level

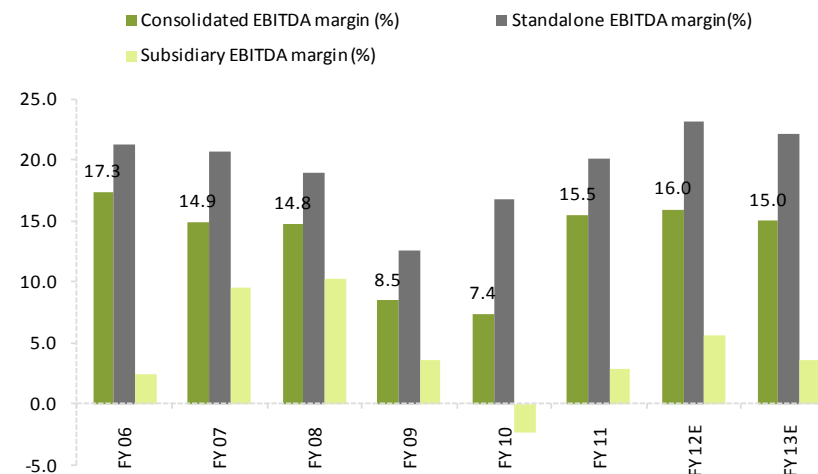


**Management targets an EBITDA margin in the range of 22-24% over FY12-13 at the standalone level and 10% at the subs level**

## Margin outlook

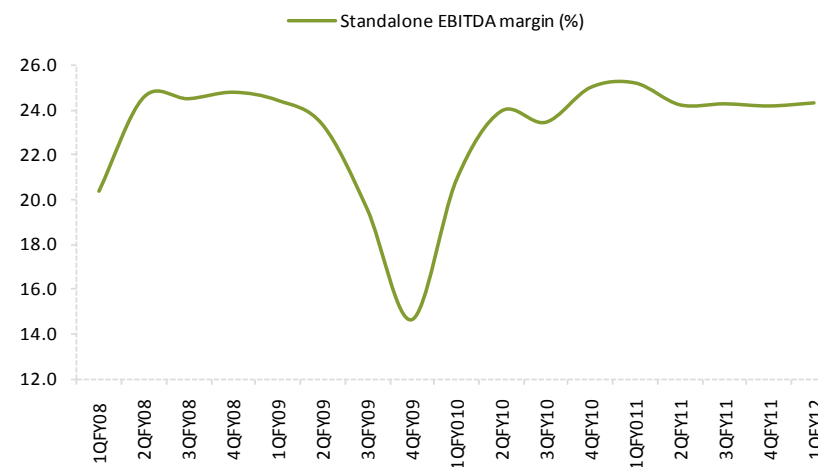
- Management expects a standalone EBITDA margin of 22-24% over FY12-13, led by expectations of higher gross margin on the back of higher machining capacity. It expects machining capacity to increase by 50% in FY12 to 0.125 mn units, which as per our analysis should lead to a ~1000-bp increase in sales contribution by higher margin machined components, thereby cushioning margin. We also believe rising capacity utilization at the overall standalone level will add to margin with huge scope of higher utilisation both at Mundhwa and Baramati plants.
- Withdrawal or the reduction in rate of benefit from duty entitlement pass book (DEPB) can impact margin of the standalone business as exports contribute ~38-42% of standalone revenue along with an average rate of exports benefit of around 7% of export value. Thus, at a consolidated level, EBITDA margin impact can be at the most around 180-200bp in case of a full withdrawal of DEPB benefits.
- The restructuring exercise by way of transferring assets and operations of its Scottish subsidiary to Sweden in FY10, spending Rs720 mn, has helped BHFC reduce the breakeven capacity utilization level for foreign subsidiaries on a combined basis to around 40% from 50%.
- Management expects a ~10% EBITDA margin from foreign subs on a combined basis, subject to stable demand scenario in the corresponding markets.
- EPC business EBIT margin, as per management, is expected to be around 7-8%, operations starting from FY12, although on a small scale.

**Expect consolidated margin to stabilise around 15% levels**



Source: Company data, Quant Global Research estimates

**Standalone margin stable at current levels of ~24%**



Source: Company data, Quant Global Research

# BHFC – management guides for a standalone margin of ~22-24%

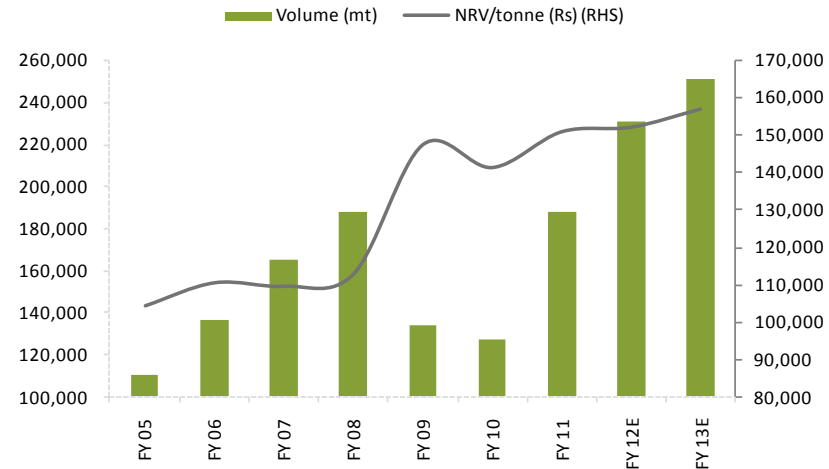
Higher utilization and machined output vs risk of lower exports and DEPB withdrawal



➤ **Around 50% increase in machining capacity against a mere 10% increase in forging capacity suggests the potential for product mix improvement from FY13**

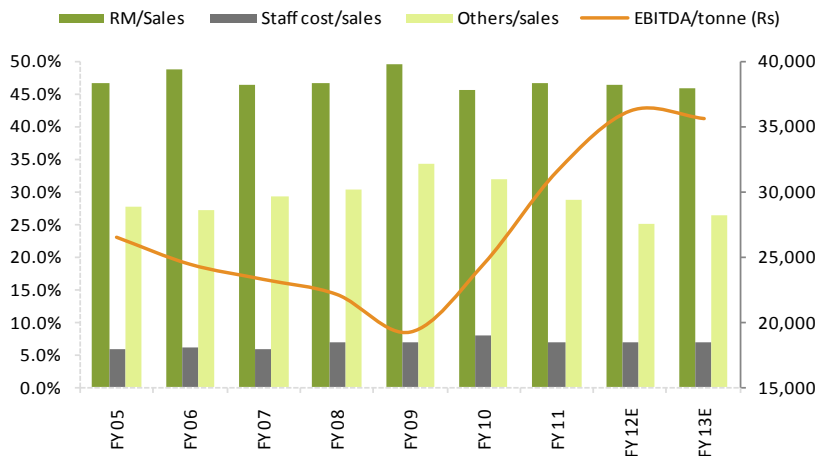
- BHFC is planning to enhance machining capacity by more than 50% from 0.80 mn units pa to 1.25 mn units pa against a hike in forging capacity by 10% to 0.4 mn tonnes by the end of FY12. Management says this would improve the product mix as BHFC would be able to cater to rising demand for higher margin finished/machined components.
- The worst case scenario for standalone margin can arise in case of a fall in demand after the addition of capacity in FY13 along with the impact of DEPB withdrawal, if at all. On a conservative note, we do not expect EBITDA/kg to fall below Rs35-36 against current levels of Rs39-40.

**Standalone volume moving up the ladder after bottoming in FY10**



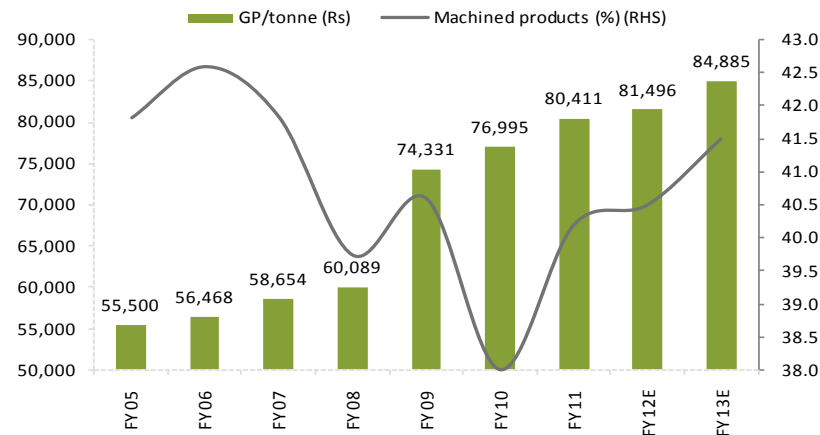
Source: Company data, Quant Global Research estimates

**EBITDA /tonne improving with rising capacity utilization; higher machining to add to it**



Source: Company data, Quant Global Research estimates

**GP/tonne up steadily after FY09; rise in machined components (%) to add to GP /tonne**



Source: Company data, Quant Global Research estimates

# BHFC – lower capex needs and debt repayment to push capital efficiency

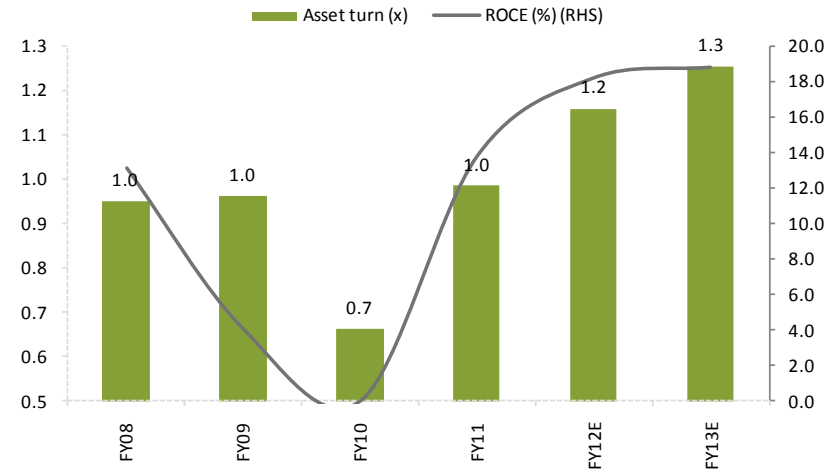


Expect consolidated ROE in the range of 18-20%

## ROCE set to improve; FY13E FCF yield at ~8-9% at the CMP

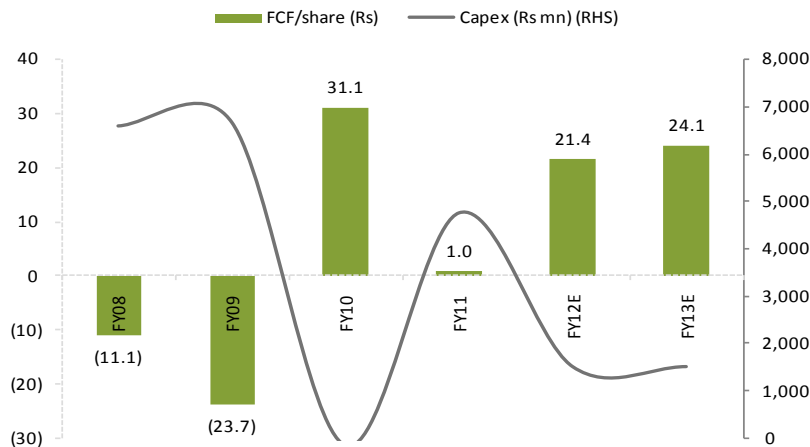
- A gradually improving asset turn combined with stable consolidated margin and debt reduction, we believe are the key drivers of improving capital efficiency for BHFC. We expect ROCE to improve to 19% by FY13E
- Given BHFC is operating at around 70% capacity utilization at standalone level and 50-55% for foreign subs, we do not see need for any major capex barring addition of machining capacity and basic maintenance capex needs. Management is guiding for Rs3 bn capex in FY12-13E.
- BHFC turned FCF-positive from FY10 post demand slowdown in FY08-09 and with visibility of improving revenue, stable margin and lower capex needs, we believe BHFC is currently trading at a ~8% FY13E FCF yield.
- We expect the net debt/equity at 0.6x in FY11 to fall to 0.2x by FY13E. As per management, FCCB redemption to the tune of US\$130 mn is due in April 2012 and April 2013 combinedly.

## ROCE set to improve on the back of redemption of FCCBs and lower capex



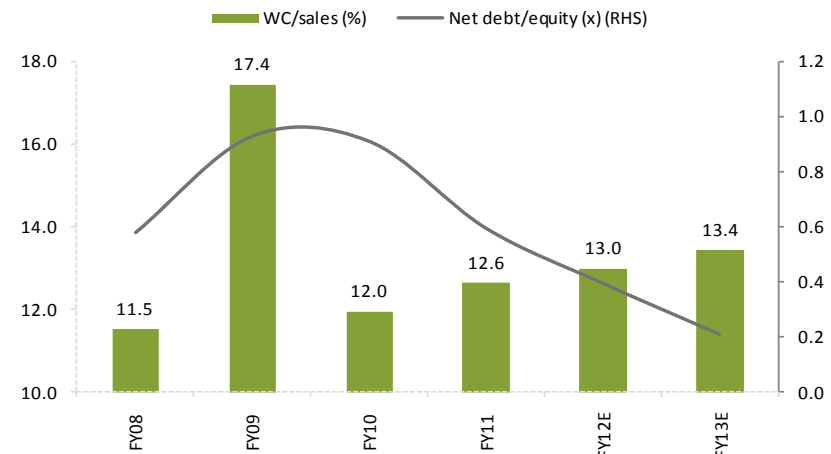
Source: Company data, Quant Global Research estimates

## Capex+ investment of Rs5 bn in FY12-13; FCF set to move up against stable margin



Source: Company data, Quant Global Research estimates

## Debt on books to decline by US\$130 mn in FY12-13; stable WC/sales at 12-13%



Source: Company data, Quant Global Research estimates



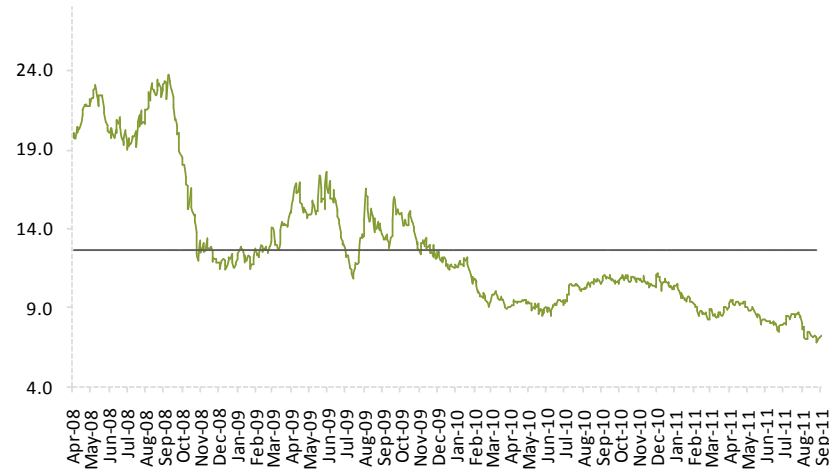
# BHFC – trading at ~7x fwd rolling EV/EBITDA and ~2.6x FY13E P/B



➤ **BHFC is currently trading at around 16x one-year forward rolling earnings estimate against the mean level of 21x in the past 12 months**

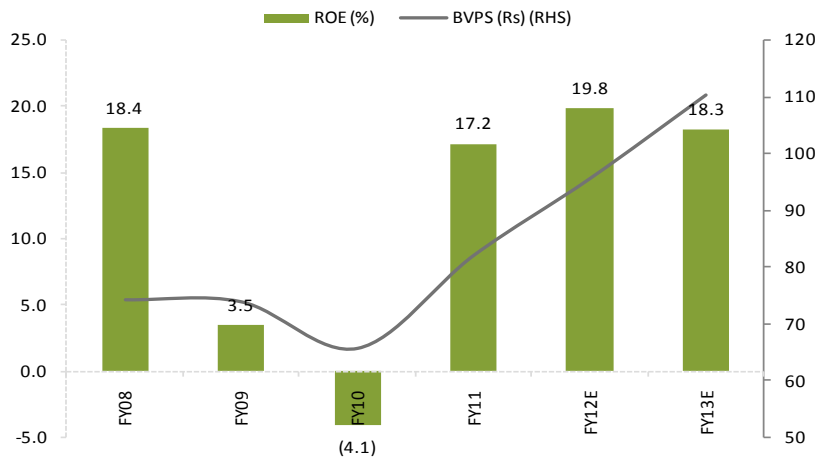
- BHFC traded at a mean forward P/E of about ~21x in the past 12 months. Currently, it is trading around 16x forward earnings against an estimated earnings CAGR of 23% during FY11-13E.
- Currently, BHFC is trading at ~7x one-year forward rolling EV/EBITDA against a three-year mean of 12.7x .
- Against visibility of BHFC ROE hovering ~18-19% over FY12-13E, the stock is currently trading at ~2.6x FY13E P/B.

**Trading at ~7x one-year forward rolling EV/EBITDA against historical mean at 12.7x**



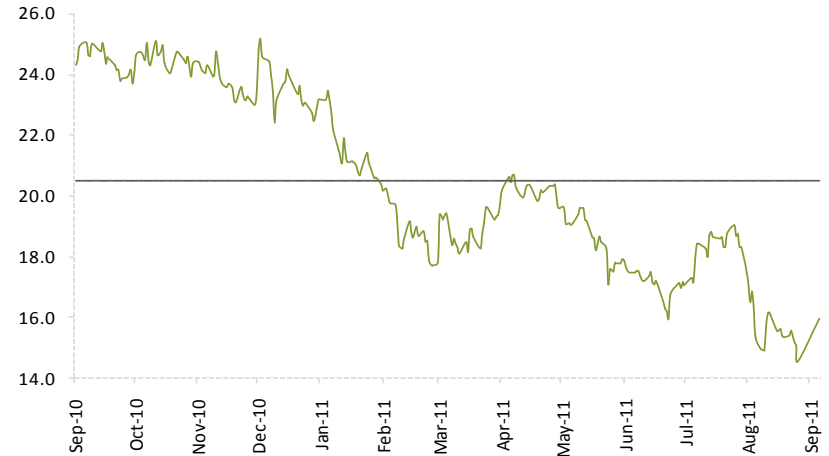
Source: Bloomberg, Quant Global Research estimates

**Expect to maintain ROE of around 18%; trading at ~2.6x FY13E P/B**



Source: Company data, Quant Global Research estimates

**Trading at a one-year forward earnings multiple of 16x**

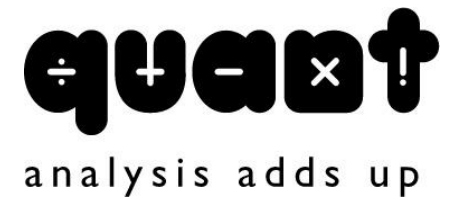


Source: Bloomberg, Quant Global Research estimates,

## ➤ Risks to the business

- Prolonged slowdown in the CV/PV cycle in the domestic market along with economic slowdown in US/EU would hamper overall demand from the automotive segment.
- Rising inflation in the domestic market to affect a majority of sectors driving non-auto demand for BHFC like marine, industrials and infrastructure.
- Incremental competition at the global level to tap non-cyclical opportunities in the form of shale gas exploration in the US.
- Rise in forging capacity from FY13 coinciding with weaker demand at the standalone level can put a halt to improving economies of scale benefit for BHFC.

# Financials



# BHFC – financial statements

YE March (Rs mn)



Income Statement (Rs mn)	FY10	FY11	FY12E	FY13E
Net revenue	33,428	51,080	61,963	69,049
Expenditure	30,970	43,186	52,059	58,693
Raw materials	15,781	23,372	28,727	32,634
Employee expenses	5,239	6,365	7,563	8,035
Other expenditure	9,951	13,449	15,770	18,024
EBITDA	2,458	7,894	9,904	10,356
Non-operating income	187	338	160	100
Depreciation	2,451	2,548	2,685	2,832
EBIT	193	5,683	7,379	7,624
Net interest expense	1,135	1,417	1,199	997
Adjusted pre-tax profit	(942)	4,267	6,180	6,627
Unusual or infrequent items	(10)	(28)	-	-
Reported pre-tax profit	(952)	4,239	6,180	6,627
Less: taxes	117	1,399	1,978	2,121
Reported net profit	(1,069)	2,839	4,202	4,506
Add: extraordinary items (post-tax basis)	305	127	-	-
Less: minority/associate earnings	132	(68)	(100)	(120)
Reported net profit for shareholders	(633)	2,898	4,102	4,386
Adjusted net profit for shareholders	(633)	2,898	4,102	4,386
EPS (Rs), based on wtd avg shares	NA	12.4	17.6	18.8
EPS (Rs), based on fully diluted shares	NA	12.4	17.6	18.8
Year-end shares outstanding (mn)	223	233	233	233
Weighted average shares outstanding (mn)	223	233	233	233
Fully diluted shares outstanding (mn)	223	233	233	233

Balance Sheet (Rs mn)	FY10	FY11	FY12E	FY13E
Equity capital	445	466	466	466
Reserves and surplus	14,185	18,652	21,808	25,247
Deferred tax liability (net)	839	1,321	1,321	1,321
Total equity	15,469	20,439	23,594	27,033
Secured loans	18,573	15,310	12,510	9,410
Unsecured loans	3,954	3,639	3,639	3,639
Minority interest	783	1,542	1,642	1,762
Total borrowings	22,527	18,950	16,150	13,050
Current liabilities	14,194	18,075	21,473	23,887
Total liabilities	52,973	59,005	62,859	65,732
Cash	5,977	3,110	2,157	1,718
Inventory	6,575	8,115	10,075	11,568
Debtors	5,044	7,539	10,327	11,978
Other current assets	6,576	8,878	9,121	9,621
Total current assets	24,171	27,641	31,680	34,885
Gross block	41,347	45,010	47,579	50,079
Less: depreciation and amortisation	(17,269)	(20,383)	(23,068)	(25,900)
Add: capital work-in-process	1,987	3,069	2,000	1,000
Total fixed assets	26,065	27,696	26,511	25,179
Investments	2,737	3,668	4,668	5,668
of which, liquid investment	2,448	3,667	4,667	5,667
Other assets	-	-	-	-
Total assets	52,973	59,005	62,859	65,732
Net working capital	4,000	6,457	8,049	9,280

Source: Company data, Quant Global Research estimates

# BHFC – financial statements

YE March (Rs mn)



Growth ratio (%)	FY10	FY11	FY12E	FY13E	Cash flow statement (Rs mn)	FY10	FY11	FY12E	FY13E
Net revenue	(30.2)	52.8	21.3	11.4	Operating cashflow				
EBITDA	(39.1)	221.2	25.5	4.6	Pre-tax income	(648)	4,365	6,180	6,627
Adjusted net profit	NA	NA	41.5	6.9	Add: depreciation and amortisation	2,451	2,548	2,685	2,832
					Add: interest expense (net)	1,135	1,417	1,199	997
					Less: other adjustments				
					Less: taxes paid	(520)	(903)	(1,978)	(2,121)
					Add: working capital changes	4,352	(2,457)	(1,593)	(1,230)
					<b>Total operating cashflow</b>	<b>6,771</b>	<b>4,971</b>	<b>6,493</b>	<b>7,105</b>
					Investing cashflow				
					Capital expenditure	165	(4,745)	(1,500)	(1,500)
					Investments	(2,735)	(931)	(1,000)	(1,000)
					Others	-	-	-	-
					<b>Total investing cashflow</b>	<b>(2,570)</b>	<b>(5,677)</b>	<b>(2,500)</b>	<b>(2,500)</b>
					Financing cashflow				
					Share issuances	-	-	-	-
					Loans	618	(3,577)	(2,800)	(3,100)
					Less: Others	(3,726)	1,416	(2,146)	(1,944)
					<b>Total financing cashflow</b>	<b>(3,108)</b>	<b>(2,161)</b>	<b>(4,946)</b>	<b>(5,044)</b>
					Net change in cash	1,093	(2,867)	(953)	(439)
					Opening cash	4,883	5,977	3,110	2,157
					Add: other adjustments				
					<b>Closing cash</b>	<b>5,977</b>	<b>3,110</b>	<b>2,157</b>	<b>1,718</b>

Ratios (%)	FY10	FY11	FY12E	FY13E
Effective tax rate	NA	33.0	32.0	32.0
EBITDA margin	7.4	15.5	16.0	15.0
Adjusted net income margin	NA	5.7	6.6	6.4
Net debt/equity	0.9	0.6	0.4	0.2
ROaCE	0.0	13.8	18.2	18.9
ROaE	(4.1)	17.2	19.8	18.3
Total asset turnover ratio (x)	0.7	1.0	1.2	1.3
Inventory days	71.8	58.0	59.4	61.1
Debtor days	55.1	53.9	60.8	63.3

Per share numbers (Rs)	FY10	FY11	FY12E	FY13E
Diluted earnings	NA	12.4	17.6	18.8
Cash earnings	8.2	23.4	29.1	31.0
Free cash	31.1	1.0	21.4	24.1
Book value	65.7	82.1	95.7	110.4

Valuations (x)	FY10	FY11	FY12E	FY13E
Price to diluted earnings	NA	23.9	16.9	15.8
EV/EBITDA	30.5	9.6	7.4	6.7
Price to book	4.3	3.4	2.9	2.6

Source: Company data, Bloomberg, Quant Global Research estimates

## ➤ Company profile

- Bharat Forge is one of the leading forgings manufacturers globally. While the company is well established in automobile forgings, it is also increasingly moving to non-automotive forgings to broaden its product mix. Bharat Forge has nine manufacturing plants in six countries including India, Sweden, the US, China and Germany. This gives it substantial geographic distribution of sales and production facilities.
- Incorporated in 1961, Bharat Forge, the flagship company of the Kalyani Group, has been investing in state-of-the-art facilities, world-class capacities and capabilities. Its plants include fully automated forgings and machining lines, the largest of their kind and comparable with the best in the industry. In India, major plants are at Pune, Baramati and Satara.
- Recently, BHFC has ventured into power equipment forging business through JVs with Alstom and Areva for thermal and nuclear power plant equipments, respectively.
- Management is led by Baba Kalyani, managing director, and Amit Kalyani, executive director.

## Ratings and other definitions

### Stock rating system

**BUY.** We expect the stock to deliver >15% absolute returns.

**ACCUMULATE.** We expect the stock to deliver 6-15% absolute returns.

**REDUCE.** We expect the stock to deliver +5% to -5% absolute returns.

**SELL.** We expect the stock to deliver negative absolute returns of >5%.

**Not Rated (NR).** We have no investment opinion on the stock.

### Sector rating system

**OVERWEIGHT.** We expect the sector to relatively outperform the Sensex.

**UNDERWEIGHT.** We expect the sector to relatively underperform the Sensex.

**NEUTRAL.** We expect the sector to relatively perform in line with the Sensex.

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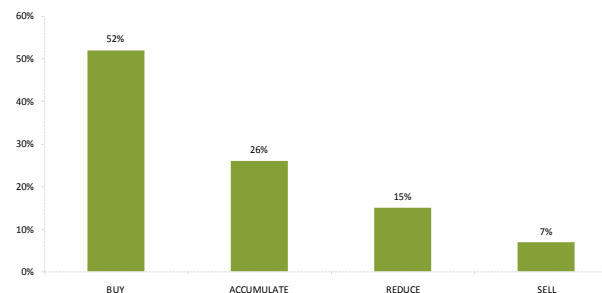
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# Thank you

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