# Shanghai M\&G (603899.ss) <br> Consolidation and Office to drive growth; initiate at Buy 

603899.SS 12 m Price Target: Rmb62.66 Price: Rmb45.78 Upside: $\mathbf{3 6 . 9} \%$

Shanghai M\&G, as the leading stationery player in China, is a rare opportunity to play the consolidation trend in the consumer space. Given its superior pricing power and extended distribution reach, we forecast the company increasing its market share from $9.8 \%$ in 2018 to $11.4 \%$ in 2023E in a growing market - we see TAM expanding at a 9\% CAGR from US\$24bn in 2019E to reach US\$34bn in 2023E.We also see its expansion into office supplies as positive given the increasing penetration of centralized purchasing among SOEs and government entities, which in turn should provide better economics for suppliers. We forecast $23 \% / 25 \%$ revenue/net profit CAGR over the next five years, and expect cash flow generation to materially improve on increasing efficiencies in the office supplies business. While the stock is up $50 \%$ YTD (vs. CSI 300 's $+27 \%$ ), it trades on 31X 2020E PE, below its historical average of 35X. Our 12-month target price of Rmb62.66, based on 30x 2023E P/E (15\% discount vs. historical average) and discounted back to 2020E using 8.1\% COE, implies 37\% upside. Hence, we initiate Shanghai M\&G at Buy.

The biggest risk facing stationery is the move to electronics and digital equipment on the back of disruptive technology innovations. While we recognize this risk, we believe it would not materialize in the near future given technology constraints and long-existing writing habits.

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Key Data $\qquad$ Enterprise value: Rmb41.1bn / \$5.8bn 3m ADTV: Rmb229.1mn / \$32.6mn

China
A-share Consumer Staples
M\&A Rank: 3
Leases incl. in net debt \& EV?: No

| GS Forecast |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: |
|  | $\mathbf{1 2 / \mathbf { 1 8 }}$ | $\mathbf{1 2 / \mathbf { 1 9 E }}$ | $\mathbf{1 2 / 2 0 E}$ | $\mathbf{1 2 / 2 1 E}$ |
| Revenue (Rmb mn) | $8,535.0$ | $11,043.1$ | $14,102.4$ | $17,596.2$ |
| EBITDA (Rmb mn) | $1,081.1$ | $1,465.3$ | $1,898.6$ | $2,378.2$ |
| EPS (Rmb) | 0.88 | 1.16 | 1.48 | 1.83 |
| P/E (X) | 32.8 | 39.4 | 31.0 | 25.1 |
| P/B (X) | 7.8 | 10.4 | 8.7 | 7.3 |
| Dividend yield (\%) | 1.0 | 1.0 | 1.4 | 1.8 |
| N debt/EBITDA (ex lease, X) | $1.0)$ | $(0.8)$ | $10.9)$ | $(1.0)$ |
| CROCI (\%) | 23.1 | 38.4 | 45.0 | 49.4 |
| FCF yield (\%) | 1.9 | 0.9 | 2.1 | 2.9 |
|  |  |  |  |  |
|  | $\mathbf{6 / 1 9}$ | $\mathbf{9 / 1 9 E}$ | $\mathbf{1 2} / \mathbf{1 9 E}$ | $\mathbf{3 / 2 0 E}$ |
| EPS (Rmb) | 0.23 | 0.36 | 0.29 | 0.34 |

GS Factor Profile


Source: Company data, Goldman Sachs Research estimates. See disclosures for details.

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| Shanghai M\&G (603899.SS) <br> Rating since Dec 2, 2019 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Ratios \& Valuation |  |  |  |  |
|  | 12/ 18 | 12/ 19E | 12/20E | 12/21E |
| P/E (X) | 32.8 | 39.4 | 31.0 | 25.1 |
| P/B (X) | 7.8 | 10.4 | 8.7 | 7.3 |
| FCF yield (\%) | 1.9 | 0.9 | 2.1 | 2.9 |
| EV/EBITDAR (X) | 23.6 | 28.0 | 21.4 | 16.8 |
| EV/EBITDA (excl. leases) ( $X$ ) | 23.6 | 28.0 | 21.4 | 16.8 |
| CROCI (\%) | 23.1 | 38.4 | 45.0 | 49.4 |
| ROE (\%) | 25.8 | 28.6 | 30.6 | 31.6 |
| Net debt/equity (\%) | (29.9) | (27.4) | (32.5) | (38.0) |
| Net debt/equity (excl. leases) (\%) | (29.9) | (27.4) | (32.5) | (38.0) |
| Interest cover (X) | - | - | - | - |
| Days inventory outst, sales | 40.9 | 37.4 | 34.9 | 33.8 |
| Receivable days | 32.6 | 39.2 | 44.3 | 47.4 |
| Days payable outstanding | 93.3 | 99.2 | 97.9 | 98.9 |
| DuPont ROE (\%) | 23.1 | 25.7 | 27.2 | 28.0 |
| Turnover (X) | 1.5 | 1.6 | 1.6 | 1.7 |
| Leverage (X) | 1.6 | 1.7 | 1.7 | 1.8 |
| Gross cash invested (ex cash) (Rmb) | 2,679.9 | 3,334.1 | 3,825.2 | 4,375.5 |
| Average capital employed (Rmb) | 2,463.8 | 2,734.3 | 3,195.3 | 3,549.3 |
| BVPS (Rmb) | 3.71 | 4.40 | 5.26 | 6.28 |
| Growth \& Margins (\%) |  |  |  |  |
|  | 12/18 | 12/19E | 12/20E | 12/21E |
| Total revenue growth | 34.3 | 29.4 | 27.7 | 24.8 |
| EBITDA growth | 36.0 | 35.5 | 29.6 | 25.3 |
| EPS growth | 27.3 | 32.5 | 27.1 | 23.7 |
| DPS growth | 20.0 | 54.9 | 33.5 | 29.6 |
| EBIT margin | 10.3 | 11.2 | 11.4 | 11.5 |
| EBITDA margin | 12.7 | 13.3 | 13.5 | 13.5 |
| Net income margin | 9.5 | 9.7 | 9.6 | 9.5 |
| Price Performance |  |  |  |  |
| 603899.SS (Rmb) Shanghai - Shenzhen 300 |  | Shanghai - Shenzhen 300 |  |  |
| 70 5,000 |  |  |  |  |
| $60 \sim$ 4,500 |  |  |  |  |
| $4,000$ |  |  |  |  |
| $40$ |  |  |  | 3,500 |
| $30$ |  |  |  | 3,000 |
| $20-1$ |  | 1 |  | 2,500 |
| Jan-19 Apr-19 | Jul- | Oct-19 |  |  |
|  | 3m |  | 6 m | 12m |
| Absolute | 8.1\% |  | 9.2\% | 67.1\% |
| Rel. to the Shanghai - Shenzhen 300 | 8.5\% |  | 4\% | 38.3\% |


|  | 12/18 | 12/ 19E | 12/20E | 12/21E |
| :---: | :---: | :---: | :---: | :---: |
| Total revenue | 8,535.0 | 11,043.1 | 14,102.4 | 17,596.2 |
| Cost of goods sold | $(6,330.4)$ | $(8,097.5)$ | $(10,376.3)$ | $(12,999.7)$ |
| SG\&A | $(1,306.9)$ | $(1,689.6)$ | $(2,094.2)$ | $(2,544.4)$ |
| R\&D | (11.3) | (14.6) | (18.6) | (23.2) |
| Other operating inc./(exp.) | (3.4) | - | (1.0) | (2.0) |
| EBITDA | 1,081.1 | 1,465.3 | 1,898.6 | 2,378.2 |
| Depreciation \& amortization | (198.1) | (223.9) | (286.4) | (351.5) |
| EBIT | 883.0 | 1,241.4 | 1,612.3 | 2,026.8 |
| Net interest inc./(exp.) | 8.0 | 10.5 | 11.4 | 16.2 |
| Income/(loss) from associates | (0.4) | - | - | - |
| Pre-tax profit | 960.2 | 1,321.9 | 1,705.7 | 2,138.8 |
| Provision for taxes | (152.4) | (231.3) | (301.9) | (382.8) |
| Minority interest | (1.0) | (21.6) | (45.1) | (75.8) |
| Preferred dividends | - | - | - | - |
| Net inc. (pre-exceptionals) | 806.8 | 1,068.9 | 1,358.7 | 1,680.2 |
| Post-tax exceptionals | - | - | - | - |
| Net inc. (post-exceptionals) | 806.8 | 1,068.9 | 1,358.7 | 1,680.2 |
| EPS (basic, pre-except) (Rmb) | 0.88 | 1.16 | 1.48 | 1.83 |
| EPS (diluted, pre-except) (Rmb) | 0.88 | 1.16 | 1.48 | 1.83 |
| EPS (basic, post-except) (Rmb) | 0.88 | 1.16 | 1.48 | 1.83 |
| EPS (diluted, post-except) (Rmb) | 0.88 | 1.16 | 1.48 | 1.83 |
| DPS (Rmb) | 0.30 | 0.46 | 0.62 | 0.80 |
| Div. payout ratio (\%) | 34.2 | 40.0 | 42.0 | 44.0 |
| Balance Sheet (Rmb mn) |  |  |  |  |
|  | 12/18 | 12/19E | 12/20E | 12/21E |
| Cash \& cash equivalents | 1,046.7 | 1,141.1 | 1,620.7 | 2,283.0 |
| Accounts receivable | 920.9 | 1,452.2 | 1,970.5 | 2,603.3 |
| Inventory | 1,042.7 | 1,220.2 | 1,478.3 | 1,780.8 |
| Other current assets | 1,089.3 | 1,189.3 | 1,209.3 | 1,229.3 |
| Total current assets | 4,099.6 | 5,002.8 | 6,278.8 | 7,896.4 |
| Net PP\&E | 901.1 | 1,181.6 | 1,467.0 | 1,734.4 |
| Net intangibles | 188.1 | 226.4 | 262.1 | 295.3 |
| Total investments | 33.8 | 33.8 | 33.8 | 33.8 |
| Other long-term assets | 454.8 | 527.6 | 593.5 | 651.2 |
| Total assets | 5,677.5 | 6,972.1 | 8,635.1 | 10,611.0 |
| Accounts payable | 1,960.2 | 2,440.3 | 3,127.1 | 3,917.7 |
| Short-term debt | - | - | - | - |
| Short-term lease liabilities | - | - | - | - |
| Other current liabilities | 147.6 | 299.2 | 442.3 | 610.9 |
| Total current liabilities | 2,107.9 | 2,739.5 | 3,569.4 | 4,528.7 |
| Long-term debt | - | - | - | - |
| Long-term lease liabilities | - | - | - | - |
| Other long-term liabilities | 73.0 | 73.0 | 73.0 | 73.0 |
| Total long-term liabilities | 73.0 | 73.0 | 73.0 | 73.0 |
| Total liabilities | 2,180.8 | 2,812.5 | 3,642.4 | 4,601.6 |
| Preferred shares | - | - | - | - |
| Total common equity | 3,410.8 | 4,052.1 | 4,840.2 | 5,781.1 |
| Minority interest | 85.9 | 107.5 | 152.6 | 228.3 |
| Total liabilities \& equity | 5,677.5 | 6,972.1 | 8,635.1 | 10,611.0 |
| Net debt, adjusted | $(1,046.7)$ | $(1,141.1)$ | $(1,620.7)$ | $(2,283.0)$ |
| Cash Flow (Rmb mn) |  |  |  |  |
|  | 12/18 | 12/19E | 12/20E | 12/21E |
| Net income | 806.8 | 1,068.9 | 1,358.7 | 1,680.2 |
| D\&A add-back | 198.1 | 223.9 | 286.4 | 351.5 |
| Minority interest add-back | 1.0 | 21.6 | 45.1 | 75.8 |
| Net (inc)/dec working capital | 196.5 | (228.7) | (89.6) | (144.7) |
| Other operating cash flow | (374.5) | (150.0) | (70.0) | (70.0) |
| Cash flow from operations | 827.9 | 935.8 | 1,530.6 | 1,892.7 |
| Capital expenditures | (318.2) | (565.4) | (623.4) | (659.8) |
| Acquisitions | - | - | - | - |
| Divestitures | 0.9 | - | - | - |
| Others | 21.3 | - | - | - |
| Cash flow from investing | (296.0) | (565.4) | (623.4) | (659.8) |
| Repayment of lease liabilities | - | - | - | - |
| Dividends paid (common \& pref) | (230.0) | (276.0) | (427.6) | (570.6) |
| $\mathrm{Inc} /(\mathrm{dec}$ ) in debt | - | - | - | - |
| Other financing cash flows | 7.5 | 0.0 | 0.0 | 0.0 |
| Cash flow from financing | (222.5) | (276.0) | (427.6) | (570.6) |
| Total cash flow | 309.5 | 94.4 | 479.6 | 662.3 |
| Free cash flow | 509.7 | 370.4 | 907.2 | 1,232.9 |

Source: Company data, Goldman Sachs Research estimates.

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## \#1. Business highlights

## Business overview and growth forecasts

Shanghai M\&G was founded in 1997 by Mr. Huxiong Chen. Prior to establishing the company, he had more than 10 years of experience in stationery sales and distribution. Relying on his expertise, he successfully grew Shanghai M\&G into a leading player in the China stationery industry and the company was listed on the Shanghai Stock Exchange in 2015. Shanghai M\&G is currently run by Mr. Huxiong Chen, his brother Mr. Huwen Chen and his sister Ms. Xueling Chen. Together, the three of them owned a c.67\% stake in the company as of June 2019. Prior to its IPO, Shanghai M\&G launched an ESOP for its management and executives through management holding platforms (Keying Investment and Jiekui Investment), which owned a c.5\% stake in the company as of June 2019.

Exhibit 1: Shareholding structure of Shanghai M\&G
As of June 2019


Source: Company data, compiled by Gao Hua Securities Research
Shanghai M\&G has two main businesses: 1) stationery, which comprises three categories, namely writing instrument, school stationery and office stationery; and 2) office supplies, providing stationery and other office supplies such as office consumables and consumer products to enterprises and government entities. In 2018, the stationery business accounted for $70 \%$ of revenue and $84 \%$ of gross profit - by category, writing instrument contributed $23 \%$ of revenue/31\% of gross profit, school stationery contributed $22 \% / 28 \%$, and office stationery contributed $24 \% / 24 \%$.

In terms of net profit contribution, the stationery business contributed 88\% in 2018, with only $3 \%$ contribution from the emerging office supplies business.

Exhibit 2: Structure of Shanghai M\&G's stationery business


Source: Company data, compiled by Gao Hua Securities Research

Exhibit 3: Stationery business accounted for $70 \%$ of revenue in 2018...

Revenue breakdown (2018)


Source: Company data

Exhibit 4: ... and $84 \%$ of gross profit

Gross profit breakdown (2018)


Source: Company data

Since its establishment in 1997, Shanghai M\&G has been focusing on stationery manufacturing and distribution. After discovering new opportunities in the to-B (i.e., to business) office supplies industry, it set up a specialized subsidiary Colipu in 2012 and achieved high growth in terms of both earnings and revenue by riding on the emerging trend of online centralized purchasing of office supplies for government units and SOEs. Shanghai M\&G recorded 29\% revenue CAGR and 24\% net profit CAGR in 2014-2018 driven by its stationery business ( $20 \%$ revenue CAGR) and office supplies business (110\% revenue CAGR). For the stationery business, we believe Shanghai M\&G has built up several competitive advantages, such as strong product design capabilities and high-density sales channels, and will continue to gain market share. For the office supplies business, we expect Colipu to achieve rapid growth over the next five years, riding on rapid expansion of the to-B office supplies industry. Overall, we estimate $25 \%$ revenue and net income CAGR for Shanghai M\&G in 2018-2023E.

Exhibit 5: We expect $\mathbf{2 5 \%}$ revenue CAGR for Shanghai M\&G in 2018-2023E


Source: Company data, Gao Hua Securities Research

Exhibit 7: Our projection of revenue structure for Shanghai M\&G


Source: Company data, Gao Hua Securities Research

Exhibit 6: We also expect $25 \%$ net income CAGR for Shanghai M\&G in 2018-2023E


Source: Company data, Gao Hua Securities Research

Exhibit 8: Our projection of gross profit structure for Shanghai M\&G


Source: Company data, Gao Hua securities Research

## Customer profile and value propositions

Shanghai M\&G is an integrated player across the entire value chain; we believe this acts as the foundation of its uniqueness and competitiveness. The company designs and produces most of its stationery products, allowing it to better control the product quality and pace of new product launches. The company has also built up a strong distribution network (i.e., 35 exclusive tier-1 distributors across the nation and 1,200+ tier-2/3 distributors as of 2018), enabling it to provide fast product delivery and high-quality offline services. Besides, the company has accumulated 78,000+ retail stores as of 1H19 through franchising, covering more than $80 \%$ of schools across China. According to Shanghai M\&G, it is also building a new type of retail store that sells both stationery and other home products, aiming to catch up with the consumption upgrade trend and increase touch points to reach more potential customers. For the office supplies business, which has diversified product categories, Shanghai M\&G does not have its own manufacturing capabilities. Instead, it partners with various office supplies product providers/manufacturers/brands and mainly sells through online platforms (direct sales). Compared with other global players, such as Staples (a US-based stationery retailer and office supplies provider) or Pilot (a Japan-based writing instrument manufacturer), Shanghai M\&G has a relatively bigger scale (revenue size of Shanghai M\&G was roughly
1.3x of Pilot's in 2018) and is the only company that operates across the entire value chain.

Exhibit 9: Integrated player across the value chain


Source: Company data, compiled by Gao Hua Securities Research
Within Shanghai M\&G's stationery business, the writing instrument and school stationery segments adopt a to-C (i.e., to consumer) sales model, mainly selling to K-12 students and white collars who are the frequent users of stationery. The office stationery segment uses a hybrid model, which not only relies on offline shops to sell to individual customers and SMEs, but also leverages Colipu's platform to sell to enterprises and government entities. The office supplies business, which is operated by Colipu (a $70 \%$-owned subsidiary of Shanghai M\&G), offers one-stop services for corporate clients and government units. Different customer groups have different needs, and we believe that's where Shanghai M\&G creates value by offering corresponding products. For the to-C business, customers pay for their own purchases; thus, they tend to place higher value on the product quality and design. Given stationery and writing instruments are generally sold at low unit prices and users are mainly K-12 students (though their parents may be buying on their behalf) and white collars who are less price sensitive, the company is able to incentivize more frequent purchases by offering high-quality products with attractive appearance and good user experience, and constantly update the products with innovative designs. For the to-B business, corporate clients usually sign medium-to-long-term contracts with service providers and tend to purchase diversified products in large quantities to lower the purchasing frequency and enjoy cost savings. Under this circumstance, we believe customer experiences, including customized purchase plans, convenience, fast delivery and after-sales services, are much more important than the product itself.

## \#2. Industry growth outlook


#### Abstract

Market size and growth drivers Consistent with Shanghai M\&G's disclosure, we break down the stationery industry into three sub categories (writing instrument, school stationery and office stationery) and estimate the market size by using various sources (such as Euromonitor and China Writing Instrument Association). According to our estimates, the size of China's stationery industry was around Rmb156bn in 2018 in terms of retail value, including Rmb28bn for writing instrument, Rmb37bn for school stationery and Rmb91bn for office stationery.


Exhibit 10: We estimate the total size of China's stationery industry was Rmb156bn in 2018


Source: Company data, Euromonitor, China Writing Instrument Association, Gao Hua Securities Research

Exhibit 12: We expect China's stationery market to grow at high single digit in the coming years


[^0] Research

Exhibit 11: Growth trends of sub-segments within China's stationery industry


Source: Company data, Euromonitor, China Writing Instrument Association, Gao Hua Securities Research

Exhibit 13: We expect growth of Shanghai M\&G's stationery business to outpace industry


Source: Company data, Gao Hua Securities Research

The biggest risk facing stationery is the move to electronics and digital equipment on the back of disruptive technology innovations. While we recognize this risk, we believe it would not materialize in the near future given technology constraints and long-existing writing habits.

According to our estimates, we expect China's stationery industry to grow at 8.5\% CAGR in 2018-2023E. Comparatively, we expect the revenue of Shanghai M\&G's stationery business to grow at 12\% CAGR, outpacing the industry, implying potential market share gains. We think there are two main drivers for stationery industry growth. The first driver is the increasing number of students, which drive the volume growth of stationery products. The second is the increasing GDP per capita, which drives disposable income of a family, the pocket money of students and SMEs' budget to purchase stationery. Considering the customer profile of frequent users of stationery, our definition of students ranges from primary school students to undergraduates.

According to our findings, the number of students in China started to rebound in 2014 when there were 206 mn students. After four years, this figure increased to 218 mn in 2018, implying an average annual growth rate of $1.4 \%$. We expect the total number of students to further increase to 247 mn by 2023E (2.5\% CAGR) driven by the upward trend of new births from 2010 to 2017.

Apart from the rise in student number, the annual spending per student on school stationery is also increasing. Students spent an average Rmb112 on school stationery in 2014, while this figure increased to Rmb171 in 2018, implying $11 \%$ annual growth, higher than residents' disposable income growth or GDP per capita growth ( $8 \%-9 \%$ ).
We think the fundamental reason is that the stationery upgrade demand is widely viewed as less important than the basic need to buy food and beverages, but more important than the need to upgrade other consumer products given its low unit price and education-related characteristics.

There are two common scenarios where students buy stationery: 1) their parents buy on their behalf before the start of each new semester; and 2) students do their own purchasing at stores near their schools. In the first scenario, Chinese parents especially young parents have a very high willingness to pay for their children's education and their related spending tends to increase more than their income growth. Stationery products generally benefit from this trend given their education-related angle. In the second scenario, students are generally less rationale than adults, and they can be easily stimulated by new stationery designs. In addition, when students receive more pocket money from their parents, they tend to increase their spending on stationery since they have already bought food and drinks, which won't cost much and have relatively stable consumption frequencies. We expect the annual spending per student on school stationery to grow at 6\% CAGR in 2018-2023E, in line with GDP per capita growth.

Exhibit 14: We expect the number of students to increase at 2.5\% CAGR in 2018-2023E


Source: National Bureau of Statistics, Ministry of Education of China, Gao Hua Securities Research

Exhibit 16: GDP per capita growth and disposable income growth


[^1]Exhibit 15: Annual spending per student has been increasing


Source: Ministry of Education of China, Company data, Gao Hua Securities Research

Exhibit 17: We believe students' spending on stationery over citizens' disposable income will gradually stabilize


Source: National Bureau of Statistics, Gao Hua Securities Research

## Competition landscape: writing instrument as an example

China's stationery industry is very fragmented, but is gradually being consolidated by leading players. Take writing instrument as an example. According to China Writing Instrument Association, in 2018, there were 229 enterprises in the writing instrument industry whose revenue scale were above Rmb2mn, vs. 249 enterprises in 2017.
Market share of the top 5 players (CR5) was c.30\% in 2018, relatively low when we compare to $65 \%$ in Japan and $67 \%$ in the US.

Domestic players are still dominant in the writing instrument market ( $86 \%$ market share), while the market share of foreign brands as a whole has been roughly stable at $\mathbf{1 4 \%}$. Foreign functional pen makers like Pilot and Mitsubishi Pencil are gradually gaining market share as their products are able to meet consumers' consumption upgrade needs (since their products generally have better quality, i.e., more durable, smooth writing without ink leakages), but their market share remains very small (Pilot: 1.5\%; Mitsubishi: 2.2\%). Luxury pen makers like Richemont SA (Montblanc) on the contrary are losing market share as luxury attributes of a pen appear to be fading on the back of digitalization. In general, we do not think foreign brands will
pose a meaningful threat to domestic players given their weaknesses in sales channels and high product prices.

We have also noticed a recent trend whereby domestic brands are gaining market share from non-branded players. Non-branded players had a 52\% market share in 2009 and 47\% in 2018. Comparatively, the market share of domestic brands increased from $\mathbf{3 3} \%$ in $\mathbf{2 0 0 9}$ to $\mathbf{3 9 \%}$ in 2018. If we take a closer look at the market share breakdown among domestic brands, we find that nearly all the market share gain has been grabbed by Shanghai M\&G. In 2009, Shanghai M\&G's market share was $10.7 \%$, 4.8ppt higher than the second largest player. In 2018, Shanghai M\&G's market share expanded to $17.8 \%$, surpassing the second largest player by $13.8 p p t$. Shanghai $M \& G$ has used nine years to expand its lead in the writing instrument industry, which we think is mainly a result of its solid competitive advantages.

Exhibit 18: Market share of foreign brands has been stable while domestic brands are gaining share from non-branded players


Market share in terms of retail value.
Source: Euromonitor

Exhibit 19: Shanghai M\&G has been taking market share from both non-brands and brands


Market share in terms of retail value.
Source: Euromonitor

Exhibit 20: Market share change of top 10 players in China's writing instrument industry

| Company | Country of origin | Mkt share, \% |  | Mkt share change, ppt |
| :---: | :---: | :---: | :---: | :---: |
|  |  | 2009 | 2018 |  |
| Shanghai M\&G Stationery Inc | China | 10.7 | 17.8 - | 7.1 |
| Deli Group | China | 2.6 | $4.0 \triangle$ | 1.4 |
| Lotus Stationery Co Ltd | China | 5.9 | $3.3 \nabla$ | -2.6 |
| Richemont SA, Cie FinanciŁre | France | 3.5 | 2.7 - | -0.8 |
| Wenzhou Aihao Pen Co Ltd | China | 2.5 | 2.7 - | 0.2 |
| Hallmark Cards Inc | US | 1.5 | 2.2 - | 0.7 |
| Mitsubishi Pencil Co Ltd | Japan | 1.5 | 2.2 - | 0.7 |
| Sunwood Holding Group Co Ltd | China | 1.6 | 1.8 - | 0.2 |
| Guangdong Baoke Stationery Co Ltd | China | 1.6 | $1.6 \square$ | 0.0 |
| Pilot Corp | Japan | 1.1 | $1.5 \triangle$ | 0.4 |
| Top 10 |  | 32.5 | 39.8 - | 7.3 |

[^2]The top 5 players in terms of market share in China's writing instrument industry are Shanghai M\&G, Deli Group, Lotus Stationery, Richemont SA and Wenzhou Aihao. Deli is a private company, which mainly focuses on office stationery and office supplies. Lotus

Stationery submitted its IPO application in 2014 when it was then the \#2 player in the market, but failed to receive SEC's approval due to its declining net profit trend in 2011-2013. One of the key differences between Lotus Stationery and Shanghai M\&G is the pace of new SKU launch (Shanghai M\&G has a much higher frequency of new product launches), which we think constitutes one of the competitive advantages of the latter.

## International comparison

Comparing to developed markets like the US and Japan, we believe there is still a significant gap, i.e., more than 10 years for the stationery industry to grow and consolidate, and Shanghai M\&G will benefit as a dominant player.

The writing instrument industry has already entered the mature stage in the US and Japan, as evidenced by the stable market size and close-to-zero growth. The market size of writing instrument in the US was around US\$3.8bn in 2018, vs. US\$3.3bn in 2005. Comparatively, the market size of Japan/China was US\$1bn/US\$3.4bn in 2018. If we look at historical trends, the US/Japan market only grew by $1 \%$ p.a. on average from 2005-2018, while China achieved $11 \%$ CAGR during this period.

To figure out where we are in this long-term growth cycle, we compare the writing instrument spending per capita in China with conditions in the US and Japan. In 2018,
the writing instrument spending per capita was US\$11.5 for the US and US\$7.4 for Japan, both of which were much higher than China's US\$2.4. We think consumers' spending on writing instrument has a high correlation with GDP or disposable income, which is evidenced by the converging share of the US/Japan writing instrument industry with GDP (which can also be interpreted as converging percentage of writing instrument spending per capita over GDP per capita). As shown in Exhibit 24, the writing instrument industry accounted for $0.02 \%$ of GDP in the US/Japan in 2005-2018, and has stabilized at this level. Comparatively, the writing instrument industry accounted for $0.025 \%$ of GDP in China as of 2018, showing a continuous declining trend. We believe the stationery industry including the writing instrument segment will grow faster than GDP in China over the next several years, and bring its contribution to GDP in line with levels in the US/Japan.

Exhibit 21: Market size of China's writing instrument industry is catching up with the US


Source: Euromonitor, Gao Hua Securities Research

Exhibit 23: Growth comparison between writing instrument industry and GDP globally


[^3]Exhibit 22: Writing instrument consumption per capita is still low compared to the US/Japan


Fluctuations in the Japanese market were largely due to exchange rate movements.
Source: Euromonitor, Gao Hua Securities Research

Exhibit 24: Percentage of writing instrument market size over GDP has been converging across countries


Source: Euromonitor, World Bank

We are confident of Shanghai M\&G's market share expansion potential after analyzing the competitive landscape in the US and Japan. Top 3 players in the US/Japan had more than 50\% share in the writing instrument industry as of 2018. More importantly, leading players continue to gain share even though the market has matured. In the US, the structure is more stable in terms of market share whereby the top 10 players already had c.75\% market share in 2018, but smaller players firmly held on to the remaining 25\% share. In Japan, the top 10 players had a 70\% market share in 2018, but the top 3 players have been taking market share from their competitors. Based on the US/Japan experience, we believe there is still room for Shanghai M\&G to consolidate the market given that the top 3 players in China only had a combined 25\% market share in 2018.

In addition, we believe the competitive landscape in China is even more favorable for top performers (in terms of market share or revenue size) like Shanghai M\&G as the revenue gap has been widening between leaders and followers, implying that scale-related competitive factors like bargaining power, sales channels and R\&D capabilities have been amplified. In Japan, there are two leading brand manufacturers in
the industry, \#1 player Mitsubishi Pencil and \#2 player Pilot. They are similar in scale (Mitsubishi Pencil's domestic sales were 36bn yen in 2018; Pilot's domestic sales were 33bn yen) thus making it more difficult for them to differentiate from each other and may weaken their pricing power. In the US, Newell Brands enjoyed a market share of $33 \%$ in 2018, which was much higher than the $13 \%$ market share of the second largest player Société Bic SA. Notably, Newell Brands has been grabbing market share from Société Bic SA over the past five years. We believe the situation in China is more comparable to the US, and that Shanghai M\&G will benefit from the industry growth and market consolidation by leveraging its strengths.

Exhibit 25: Top 3 players accounted for $54.7 \%$ share in the US writing instrument industry


Source: Euromonitor

Exhibit 27: Top 10 players in the US had 3/4 market share while small players can still survive


[^4]Exhibit 26: Top 3 players had 53.3\% share in Japan's writing instrument industry


Source: Euromonitor

Exhibit 28: Top 3 players in Japan have been taking market share from their competitors


[^5]
## \#3. Competitive advantages

For the stationery business, Shanghai M\&G is the leading player in China with very strong brand awareness and dominant market share. As we mentioned previously, Shanghai M\&G is the key stationery market share gainer in China over the past 10 years. The company's market share in the writing instrument sector expanded from $10.7 \%$ in 2009 to $17.8 \%$ in 2018, and its leading edge has further widened. The second (Deli Group) and third largest player (Lotus Stationery) only accounted for a combined market share of $7.3 \%$ in 2018. We think the market share/revenue outperformance of Shanghai M\&G is not a coincidence, but a result of its competitive advantages. Lotus Stationery used to be the main competitor of Shanghai M\&G and the market shares of both companies were similar 20 years ago. However, their market shares or growth trajectories have diverged significantly over the past couple of years. In 2014, Lotus Stationery submitted an IPO application to China SEC. However, the application was declined due to its downward profit trend (net profit dropped by $22 \% / 6 \%$ yoy in 2012/2013). Following two years of not getting the approval, Lotus withdrew its IPO application in 2016. We believe the key differences between Shanghai M\&G and Lotus include product innovation capabilities, leading to differences in new product release frequency, and density of retail network. These two factors also constitute the key competitive advantages of Shanghai M\&G, in our view.

## We see the following as Shanghai M\&G's major competitive advantages: 1) strong brands; 2) advanced R\&D capabilities; and 3) high-density and well diversified sales channels.

## Strong brand awareness

We believe one of the most important assets for a consumer company is its brand name, given the fact that consumer products are largely homogeneous and are lacking in advanced technology. Stationery are widely viewed as consumer products even though they are more functional driven and have low unit prices. We think consumers do care about the brand of stationery in China to a certain extent, mainly because: 1) students, who are the key consumers of stationery, care about their writing experience given their frequent usage in schools; and 2) products with strong brand names are generally perceived as reliable and having high quality. These products can thus reduce consumers' negative experiences (e.g., ink leakages when writing a test paper).

With a history of over 20 years, Shanghai M\&G has been focusing on the manufacturing and distribution of stationery products since its establishment. Throughout the years, the company has gradually built a strong brand name on the back of its high product quality and innovative designs. It has been ranked first in the "Top Ten Enterprises in China's Pen Production Industry" for 10 consecutive years (2008-2018) by China Light Industry Council and China Writing Instrument Association, illustrating its strong brand power and strong production capabilities. Under its core M\&G brand, the company owns a variety of brands covering the stationery, premium retailer and office supplies segments. They engage in the cross selling of products and help to increase customer loyalty by expanding the user period and customer base. For example, back
when Shanghai M\&G only had the stationery product line, consumers would typically start to use its products only when they enter primary school, and they would stop using after graduating from college. At present, the company also has products for kids and professional painters, thus expanding its consumer base. Shanghai M\&G is also increasing its interactions with customers (especially students) through offline activities like campus events and new forms of online marketing activities, which are beneficial to the company in terms of boosting its brand name.

Exhibit 29: Brand matrix under M\&G


[^6]
## Advanced R\&D capabilities

As mentioned earlier, students are the major consumers of stationery; as such, we find it helpful to understand their consumption behavior. According to a survey conducted by China Culture and Education Sporting Goods Association and Guangzhou Stationery Industry Association in 2006 (covering 4 primary schools, 8 middle schools and 6 colleges, including 788 samples in total), the top two reasons why students would buy new stationery were for writing needs and new product launch/new design. Although the survey was conducted some time back, we think it still sheds light on consumers' purchase motivation and helps us understand students' behavior. According to the survery, impulsive consumption or accidental consumption was the key reason why students would buy new stationery, therefore new product launches can help to stimulate stationery purchase.

Shanghai M\&G has strong product design capabilities illustrated by large quantities of new SKU launch each year. According to the company, it can launch over 2,000 new products each year vs. over 5,000 SKU storage, implying 30\%-40\% SKU turnover each year. Highly frequent product launches are crucial for a stationery designer/producer as it increases customer stickiness and drives sales. To support the frequent release of new products, Shanghai M\&G spends a considerable amount on

R\&D including product design. It had more than 400 R\&D employees as of 2018, accounting for $11 \%$ of total employees. The company has maintained its R\&D expenditure at around Rmb100mn for the past five years, already surpassing Pilot (\#1 pen maker in Japan)'s R\&D expenditure both in terms of absolute spending and as percentage of stationery revenue, demonstrating the company's focus on innovation.

Exhibit 30: Over 2,000 new products were launched each year


Source: Company data

Exhibit 32: Shanghai M\&G's R\&D expenditure has surpassed that of Pilot


[^7]Exhibit 31: Research employees accounted for over 10\% of total employees and have been growing year over year


Source: Company data

Exhibit 33: Shanghai M\&G incurs higher R\&D expenses than Pilot


Source: Company data

We categorize Shanghai M\&G's products into three categories: classic products, innovative products and IP products. Classic products (e.g., GP 1390 gel ink pen) are long-lasting products, which have been well-received by the market and earned a good reputation among users. Good quality and long life cycle are some of their typical characteristics. For innovative products (e.g., pressure-sensitive gel ink pen), the company usually comes up with new designs to improve users' experience. Post release, if these products are well-received by consumers, they could be re-categorized as classic products. If market response is poor, they will be eliminated from the market. The company also develops IP products, which are embedded with popular elements like cartoon/movie characters to arouse students' interest and stimulate their consumption. IP products usually have a shorter life cycle as trends tend to change quickly. We believe Shanghai M\&G's product development capabilities enable the company to satisfy consumers' varying/changing needs.

Exhibit 34: Shanghai M\&G's product portfolio


[^8]
## Well diversified sales channels

Most of the stationery consumption in China happens offline, given the impulsive consumption behavior of students and low unit prices. To increase customer touch points, Shanghai M\&G has developed various channels including KAs (supermarkets and chain retailers), distributors, M\&G shops, e-commerce and direct sales. KAs and distributors are the dominant sales channels, contributing $90 \%+$ stationery sales per our estimate. The company has 35 tier- 1 distributors and around 1,200 tier- $2 / 3$ distributors across the nation. Under an agreement signed by Shanghai M\&G and its distributors, tier-1 distributors can only sell $M \& G$ products. Tier-2/3 distributors can only sell M\&G products in the writing instrument category, but are allowed to sell other brands in other product categories. We estimate that each tier-2/3 distributor can sell Rmb3-4mn (in terms of wholesale value) of writing instrument and Rmb9-10mn of M\&G's stationery products (in terms of wholesale value) per year on average. The exclusive arrangement has enhanced Shanghai M\&G's distribution network and set hurdles for competitors. The direct sales channel under Colipu is a to-B channel, mainly for office supplies sales but also includes a small portion of office stationery. We will discuss this in the 'New growth driver' section.

Exhibit 35: Shanghai M\&G's channel structure


[^9]Shanghai M\&G also has strong control over its retail network. Adopting the franchising strategy, the company has expanded its retail network across the country, covering over $80 \%$ of schools in China. As of 1H19, its franchised retail stores amounted to over 78,000. The company offers three types of arrangement for store owners to choose from: M\&G standard sample shop, M\&G advanced sample shop and M\&G franchise outlet. Shanghai $M \& G$ allows all three types of franchised stores to use the M\&G logo on their signboards for free, which is attractive to many self-employed small stationery retail store owners and incentivizes them to transfer their private store to a franchise store under M\&G. For standard sample shops, in-store presented SKUs of M\&G products are generally no less than 265 and there is no exclusive clause from M\&G. Advanced sample shops usually present at least 370 M\&G SKUs and can only sell M\&G products for designated categories. Shanghai M\&G in turn will offer more support including free furniture such as display shelves and more product rebates or greater discounts. An M\&G franchise outlet typically has over 1,000 M\&G SKUs in store and can only sell M\&G's products from all of M\&G's categories.

Exhibit 36: Three types of M\&G franchised store

| Organization | Standard sample shop | Advanced sample shop | Franchise outlet |
| :--- | :---: | :---: | :---: | :---: |
| Brand authorization | Allow shops to use M\&G logo on their signboard for free |  |  |

[^10]As retail stores near schools are the key places where students tend to buy stationery, Shanghai M\&G has been trying to move its franchised stores from the standard sample shop arrangement to the M\&G franchise outlet arrangement, aiming to enhance control over its retail network and reduce sales channels of competitors. The total franchised stores of Shanghai M\&G continue to increase year over year on the back of the company's efforts to expand its retail network, and the percentage of franchise outlets vs. franchised stores has been increasing, indicating that the exclusiveness of M\&G products is also increasing. Due to the attractiveness of franchise outlets to store owners, we believe Shanghai M\&G will have increasingly strong controlling power over its retail network and may achieve near monopoly if the exclusiveness of its products were to reach a certain level. We believe this will become one of the company's most solid competitive advantages as time goes by.

Over the past seven years, revenue per M\&G franchised store has more than doubled, demonstrating the company's continuous efforts to gain shelf share inside the M\&G franchised stores, and the relatively attractiveness of M\&G's stationery products compared with peers.

Exhibit 37：Shanghai M\＆G＇s retail network is expanding，and its franchise outlets have increased in number


[^11]Exhibit 38：Revenue scale of M\＆G franchised stores is increasing


Source：Company data

The company also had 300 new－type retail stores as of 1 H 19 ，including $171 \mathrm{M} \& G$ Shops （九木杂物社， 114 self－owned stores and 57 franchised stores as of 2018）and $129 \mathrm{M} \& G$ Life Stores（晨光生活馆）．An M\＆G Shop is generally located in shopping centers that sell household and consumer goods，while a Life Store is usually opened next to Xinhua Bookstore，which is one of the largest bookstore chains in China，aiming to benefit from the traffic of Xinhua Bookstore and sell quality stationery to students．Besides traditional offline retail channels，the company also has multiple online sales channels including Tmall and JD．Shanghai M\＆G Information Technology Co．，Ltd．，a 55\％－owned subsidiary of Shanghai M\＆G，is responsible for developing online channels．

In addition to the three key competitive advantages mentioned above，Shanghai $M \& G$ has a well organized 3－layer distributing system and implements a standard and strict management system，ensuring a healthy distributing environment with stable wholesale and retail prices．In 2013，the company also set up a high－tech warehouse，adopting WMS，and achieved management automation based on its real time information system．We believe this enhances Shanghai M\＆G＇s logistics accuracy and increases inventory management efficiency through standardized product inflows and outflows． Notably，the company is able to deliver its products from the factory to any retail store within seven days．

## \#4. New growth driver: office supplies business

## Definition and market size of office supplies industry

Since its incorporation in 2012, Colipu (a 70\%-owned subsidiary of Shanghai M\&G) has been engaged in the office supplies business. Different from the stationery business, customers of the office supplies business mainly include enterprises and government entities. Here, we define the office supplies business as the sale of products that people may use in an office (such as stationery, office consumables, office devices and other consumer goods) excluding raw production materials and specialized equipment. The office supplies industry has long existed in China, but is transforming from offline to online as e-commerce goes nationwide and the penetration of online purchases continue rising. In addition, the government has shifted its preference towards centralized purchasing with increased transparency, thus creating new opportunities in recent years.

In the beginning, Colipu had three sales models: online sales through self-operated e-commerce platforms, contract sales and commission sales. Now, the online sales model is the focus of Colipu as offline-to-online purchase is the ongoing trend for enterprises and government entities. According to the National Enterprise E-commerce Purchasing Report (published in December 2018), the overall enterprise online purchasing market is booming, growing by $80 \%$ yoy in 2018. Among all goods purchased online by enterprises, the general consumer product value reached Rmb150bn in 2018, which serves as a reference for the online office supplies market size, in our view. We expect the online office supplies market to more than triple over the next five years, reaching Rmb540bn in 2023E. Colipu's revenue was Rmb2.6bn in 2018, accounting for c.2.0\% market share. We expect its revenue to increase by $55 \%$ to Rmb4.0bn in 2019, with its market share expanding to $\mathbf{c} .2 .2 \%$.

Exhibit 39: We expect online sales of office supplies to increase rapidly


Source: National Enterprise E-commerce Purchasing Report, Gao Hua Securities Research

Exhibit 40: We expect Colipu to benefit from market expansion


Source: Company data, Gao Hua Securities Research

## Competitive landscape

Similar to the stationery business, the office supplies industry is highly fragmented, which is due to its business nature. When enterprises buy office supplies offline, it's
difficult for them to buy all the products they need at one time given the wide range of product categories, so they usually buy from several suppliers. In addition, enterprises generally prefer local suppliers due to their faster response and better services. As a consequence, many regional small businesses exist. However, we notice that market concentration has been rapidly increasing as online penetration increases in the enterprise space and all government entities and larger SOEs are required by the Chinese government to use the centralized online purchasing platform for office supplies over the past couple of years. We think China will not experience the offline consolidation process, which happened in the US and Japan in the 1990s, and will directly go to the online stage.

We categorize current market players into two types: 1) comprehensive e-commerce platforms (i.e., e-commerce platforms with a comprehensive product portfolio), which have accumulated abundant experience in the to-C e-commerce space, and now wants to penetrate into the to-B industry, such as JD VSP and B.Tmall; and 2) professional office supplies providers, which have their origins in the traditional to-B industry and have experiences in conducting the offline office supplies business, such as Comix, Deli and Colipu. Currently, the top $\mathbf{3}$ comprehensive e-commerce platforms have a combined market share of $70 \%-80 \%$ and professional office supplies providers own c. $10 \%$ in total, according to our estimates.

Their business models differ slightly. B.Tmall is a pure B2B e-commerce platform (3P), which means it does not hold any inventory and only matches demand with supply and charges commissions. JD VSP is a 1 P e-commerce platform, which sells products directly to customers, but takes on the inventory and reputational risks. Suning.com is a hybrid e-commerce platform, with both 1P and 3P businesses. For professional office supplies providers, nearly all of them adopt the direct sales business model to control product quality.

From a customer's perspective, we list six important factors (service, discount, logistics, product category, supply chain and technology) that could affect customer experience and accordingly differentiate players in the industry. Comprehensive e-commerce platforms typically have strengths in product category, logistics and technology, while professional suppliers usually do well in services. Different customers assign different levels of importance to these factors and large customers (such as SOEs or government entities) generally place greater value on the wholistic experience during the purchase process.

Exhibit 41: Competitive landscape in online office supplies


[^12]Colipu has been providing high-quality services to large business customers and government divisions (see Exhibit 42). It offers customized pre-purchase plans and responsive after-sale services. Therefore, it has accumulated many large customers including government entities (e.g., State Taxation Administration), SOEs (e.g., National Grid, China Mobile, ICBC), private companies (e.g., Vanke Services) and multi-national companies(e.g., TCL, Simens). We think JD, Tmall and Suning have competitive advantages in acquiring SME clients that place less value on offline services. However, we believe they may find it challenging to consolidate the market shares of big corporates, which have big budgets and do not typically allocate their entire budget to one service provider.

Exhibit 42: Colipu's customer group

| Government entity | SOE | Private company | MNC |
| :--- | :--- | :--- | :--- |
| Chinese Central government | State Grid corporation | Jinke Real Estate | Nike |
| State Taxation Administration | Sinopec | Vanke Service | TCL |
| Shenzhen government | Shanghai Airlines | New Hope Group | Siemens |
| Shanghai government | China Unicom |  | Johnson \& Johnson |
| Tianjin government | China Mobile | $\ldots$ | Royal Dutch Shell |
| $\ldots$ | $\ldots$ |  | $\ldots$ |

Source: Company announcements
In the medium term, we believe Colipu will sustain its rapid growth on the back of
increased online penetration in enterprise purchasing. In the long run, we think the market share of each player will get stabilized, with comprehensive e-commerce platforms enjoying majority shares in the SME segment and Colipu maintaining a stable share in the government/SOE segment.

## Global comparison

To understand the growth potential for Colipu, we compare it with global leaders. In the US, the top 2 players in the industry are Staples and Office Max. Staples' revenue was around US\$11.0bn (28x of Colipu's 2018 revenue) in 2016 while Office Max's revenue was US\$5.4bn (14x of Colipu's 2018 revenue) in 2018. In Japan, the top 3 players account for $70 \%-80 \%$ of the total market share. ASKUL is the largest player with a revenue of US\$2.2bn in 2018, 5.6x of Colipu's revenue in the same period.

Exhibit 43: Still ample room to grow for Colipu compared to global peers
Revenue comparison


2016 data for Staples; 2018 data for the other companies.
Source: Company data
Experiences of global peers suggest that there is still ample room for professional office supplies providers to grow, even if they were to face intense competition from comprehensive e-commerce platforms, such as Amazon or Yahoo Japan. This is because the customized and extensive services provided to larger corporate clients or government entities continue to be very important, and these are the competitive advantages generally associated with the professional office supplies providers. Therefore, we believe Colipu's market share will continue to increase gradually as the centralized purchasing initiative for government entities and corporates gains traction.

Exhibit 44: Comparison of office supplies companies across the world

| Country | USA | Japan |  | China |
| :---: | :---: | :---: | :---: | :---: |
| Company | Staples Office depot | AskulTanomail <br> (under OTSUKA CORP) | Kokuyo ! | Colipu Comix |
| Sales channel | Off-line stores; Catalog sales; Contract sales; e-com (<10\%) | Catalog sales; <br> Contract sales <br> Mail order | Catalog sales; Contract sales | e-com (>80\%), e-com, contract contract sales sales |
| Key prodcuct category | Office furniture; IT equipment;stationary, office supply;etc | 14\% stationery, 7\% <br> furniture, $33 \%$ living <br> supplies, $30 \%$ IT <br> products | Furniture(c.50\%); stationery(c.20\%); other office supplies | Office  <br> consumables Office supplies <br> $(38 \%)$ IT (60\%) office <br> equipment (36\%), equipment (40\%) <br> stationery (5\%)  |
| Sales contribution of self-produced products | $15 \% \quad 10 \%$ | $36 \% \quad \mathrm{Na}$ | 28\% | <5\% <5\% |
| Market share | $40 \% \quad 20 \%$ | 36\% 24\% | 17\% ! | 2.5\% 3\% |
| Client structure | Top 500 companies and SMEs | Top 500 companies and SMEs | \| | Government entities, SOEs and large private companies |
| $\underline{\text { Revenue (US bn) }}$ | 11 5.4 | 2.21 .4 | 1 | 0.4 |
| OP margin | 7\% 5\% | 2\% 4.90\% | 3\% | 3\% 2\% |
| Establishment of 2-B business | 19941986 | 19631999 | 1960 i | 20122000 |

For Staples, financial numbers were as of 2016. For other companies, financial numbers were as of 2018. Market share data are our estimates.
Source: Company filings, Gao Hua Securities Research
We expect Colipu's revenue to reach Rmb14.8bn in 2023E, implying $3.1 \%$ market share and 42\% CAGR in 2018-2023E. Meanwhile, we also expect its net profit margin to gradually improve from the current level of $1.2 \%$ to $4 \%$ in 2023E, close to the average $4 \%-5 \%$ level of global peers (such as Staples, Office Max, ASKUL and Tanomail), mainly driven by increasing scale effect and more rebates from suppliers. Accordingly, Colipu's net profit contribution will rise from $3 \%$ in 2018 to $17 \%$ in 2023E, becoming an important growth engine of Shanghai M\&G.

More importantly, though Colipu has much lower margins than Shanghai M\&G's traditional stationery business, its ROE (18\%-27\% in 2018-2019E) has been similar to the stationery business, largely owing to its asset light business model, efficient supply chain and fast asset turnover rate. For example, its net asset turnover over the past two years averaged at around $12 x-13 x$. We believe the business nature of Colipu will largely ease the concerns of some investors over diluting margins and capital returns of M\&G as a whole.

Exhibit 45: Revenue and growth of Colipu


[^13]Exhibit 46: Net profit and growth of Colipu


[^14]
## Exhibit 47: We expect Colipu's margins to improve



[^15]Exhibit 48: Colipu's ROE is high despite low margins


[^16]
## \#5. Financials and valuation

## Fast topline growth and stable margins

We expect revenue of Shanghai M\&G to increase from Rmb8.5bn in 2018 to Rmb26.0bn in 2023E, implying $25 \%$ CAGR. The office supplies business will become the key growth engine over the next five years, in our view, with revenue growing from Rmb2.6bn to Rmb14.7bn, contributing 68\% of incremental revenue over the next five years.

The relatively faster revenue growth and lower margins of the office supplies business will inevitably lead to lower overall margins for the company. Nonetheless, we expect rising margins from the traditional stationery business to largely offset the above. As such, we forecast the net profit margin of Shanghai M\&G will decline from $9.5 \%$ in 2018 to $9.3 \%$ in 2023E.

Exhibit 49: Overall GP margin will fall slightly due to fast growth of office supplies business


Source: Company data, Gao Hua Securities Research

Exhibit 50: Overall net margin will also decline


Source: Company data, Gao Hua Securities Research

We expect the company's traditional stationery business to maintain stable growth and remain the main profit contributor over the next five years. We expect revenue from the stationery business (including the new retail store business) to increase from Rmb6.0bn to Rmb11.4bn, implying 14\% CAGR. Accordingly, the net profit contribution will increase from Rmb711.0mn to Rmb1.9bn, implying $22 \%$ CAGR over the next five years. We believe net profit margins of the stationery business will gradually improve from $12 \%$ in 2018 to $16 \%$ in 2023E, thanks to ASP increase and lower SG\&A ratio.

## Balance sheet and cash flow analysis

Long-term assets accounted for $28 \%$ of total assets as of 2018. Asset turnover (sales over long-term assets) was $53 \%$ in 2018, implying high efficiency in asset use. Cash and equivalents and other highly-liquid current assets (mainly WMP) amounted to Rmb2.1bn in 2018 , or $38 \%$ of total assets. In addition, the company does not have any debt burden, indicating its strong cash generation ability. ROIC was $54 \%$ in 2018, and we estimate it to further increase in the coming years on the back of improved operating efficiencies. Cash flow from operations has been consistently greater than net income
over the past five years, implying high earnings quality and healthy cash flow conditions. Shanghai M\&G's dividend payout ratio was $34 \%$ in 2018 , and we expect the ratio to rise as the company accumulates more cash on its balance sheet. We expect Shanghai M\&G's capex to increase due to its continued investment in Colipu, but we see limited impact on free cash flow in the near term, considering its abundant cash balance.

Exhibit 51: Sales volume growth of writing instrument


Source: Company data, Gao Hua Securities Research

Exhibit 53: Sales volume growth of school stationery


Source: Company data, Gao Hua Securities Research

Exhibit 55: Sales volume growth of office stationery


[^17]Exhibit 52: ASP growth of writing instrument


Source: Company data, Gao Hua Securities Research

Exhibit 54: ASP growth of school stationery


Source: Company data, Gao Hua Securities Research

Exhibit 56: ASP growth of office stationery
ASP of office stationery, in Rmb


[^18]Exhibit 57: We expect 25\% net profit CAGR for M\&G in 2018-2023E


Source: Company data, Gao Hua Securities Research

Exhibit 59: FCFF and capex
$\square$ FCFF in Rmb mn Capex


Source: Company data, Gao Hua Securities Research

Exhibit 58: We expect Shanghai M\&G to sustain its high ROE going forward


Source: Company data, Gao Hua Securities Research

Exhibit 60: We expect dividend to rise as the company gradually steps into a more mature state


[^19]Exhibit 61: Financial highlights of Shanghai M\&G

| Rmb mn | 2014 | 2015 | 2016 | 2017 | 2018 | 2019E | 2020E | 2021E | 2022E | 2023E |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total revenue | 3,043 | 3,749 | 4,662 | 6,357 | 8,535 | 11,043 | 14,102 | 17,596 | 21,625 | 26,203 |
| yoy growth |  | 23\% | 24\% | 36\% | 34\% | 29\% | 28\% | 25\% | 23\% | 21\% |
| Revenue from main business | 3,043 | 3,746 | 4,659 | 6,352 | 8,534 | 11,042 | 14,101 | 17,595 | 21,624 | 26,202 |
| Writing Instrument | 1,347 | 1,503 | 1,647 | 1,788 | 1,946 | 2,115 | 2,298 | 2,486 | 2,676 | 2,866 |
| School stationery | 911 | 1,153 | 1,374 | 1,633 | 1,858 | 2,068 | 2,290 | 2,525 | 2,770 | 3,025 |
| Office stationery | 567 | 798 | 1,092 | 1,613 | 2,060 | 2,563 | 3,070 | 3,566 | 4,034 | 4,563 |
| Other product | 75 | 79 | 83 | 95 | 114 | 285 | 428 | 599 | 778 | 973 |
| Direct sales of office supplies | 131 | 202 | 459 | 1,220 | 2,553 | 4,008 | 6,012 | 8,417 | 11,363 | 14,772 |
| Franchise fee | 12 | 11 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| cogs | 2,263 | 2,754 | 3,431 | 4,721 | 6,330 | 8,098 | 10,376 | 13,000 | 16,060 | 19,546 |
| Gross profit | 781 | 995 | 1,232 | 1,636 | 2,205 | 2,946 | 3,726 | 4,596 | 5,565 | 6,657 |
| GP margin | 26\% | 27\% | 26\% | 26\% | 26\% | 27\% | 26\% | 26\% | 26\% | 25\% |
| Writing Instrument | 427 | 477 | 533 | 593 | 678 | 770 | 871 | 972 | 1,070 | 1,162 |
| School stationery | 234 | 330 | 407 | 499 | 622 | 744 | 872 | 1,013 | 1,158 | 1,315 |
| Office stationery | 81 | 134 | 195 | 336 | 525 | 691 | 860 | 1,025 | 1,188 | 1,375 |
| Other product | 9 | 10 | 11 | 21 | 26 | 137 | 205 | 287 | 373 | 467 |
| Direct sales of office supplies | 17 | 31 | 79 | 179 | 350 | 601 | 914 | 1,296 | 1,773 | 2,334 |
| Franchise fee | 12 | 11 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| GP margin | 26\% | 27\% | 26\% | 26\% | 26\% | 27\% | 26\% | 26\% | 26\% | 25\% |
| Writing Instrument | 32\% | 32\% | 32\% | 33\% | 35\% | 36\% | 38\% | 39\% | 40\% | 41\% |
| School stationery | 26\% | 29\% | 30\% | 31\% | 33\% | 36\% | 38\% | 40\% | 42\% | 43\% |
| Office stationery | 14\% | 17\% | 18\% | 21\% | 25\% | 27\% | 28\% | 29\% | 29\% | 30\% |
| Other product | 12\% | 12\% | 13\% | 22\% | 23\% | 48\% | 48\% | 48\% | 48\% | 48\% |
| Direct sales of office supplies | 13\% | 15\% | 17\% | 15\% | 14\% | 15\% | 15\% | 15\% | 16\% | 16\% |
| Franchise fee | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% | 100\% |
| SG\&A | 418 | 555 | 722 | 980 | 1,318 | 1,704 | 2,113 | 2,568 | 3,084 | 3,627 |
| Sales tax and add-on | 9 | 14 | 17 | 26 | 35 | 39 | 49 | 62 | 76 | 92 |
| Sales expense | 207 | 282 | 405 | 570 | 789 | 988 | 1,245 | 1,543 | 1,875 | 2,235 |
| Admin expense | 202 | 260 | 300 | 384 | 494 | 677 | 818 | 963 | 1,134 | 1,300 |
| Impairment loss | 2 | 3 | 7 | 21 | 3 | - | 1 | 2 | 3 | 4 |
| EBIT | 360 | 436 | 503 | 635 | 883 | 1,241 | 1,612 | 2,027 | 2,478 | 3,026 |
| yoy growth |  | 21\% | 15\% | 26\% | 39\% | 41\% | 30\% | 26\% | 22\% | 22\% |
| EBIT margin | 11.8\% | 11.6\% | 10.8\% | 10.0\% | 10.3\% | 11.2\% | 11.4\% | 11.5\% | 11.5\% | 11.5\% |
| Net interest income (+) | 2 | 8 | 5 | 3 | 8 | 10 | 14 | 21 | 31 | 42 |
| Investment gain (+) | 1 | 15 | 29 | 38 | 35 | 45 | 54 | 65 | 78 | 93 |
| Other income (+) | 36 | 30 | 32 | 71 | 34 | 25 | 28 | 31 | 34 | 37 |
| Profit before tax | 399 | 490 | 570 | 747 | 960 | 1,322 | 1,708 | 2,144 | 2,621 | 3,198 |
| Tax expense (-) | 70 | 83 | 88 | 119 | 152 | 231 | 302 | 384 | 474 | 582 |
| Minority interest (-) | (10) | (16) | (12) | (7) | 1 | 22 | 45 | 76 | 119 | 177 |
| Net profit | 340 | 423 | 493 | 635 | 807 | 1,069 | 1,361 | 1,684 | 2,028 | 2,439 |
| yoy growth |  | 24\% | 17\% | 29\% | 27\% | 32\% | 27\% | 24\% | 20\% | 20\% |
| Net margin | 11.2\% | 11.3\% | 10.6\% | 10.0\% | 9.5\% | 9.7\% | 9.6\% | 9.6\% | 9.4\% | 9.3\% |

[^20]Exhibit 62: Balance sheet

| Balance sheets | 2014 | 2015 | 2016 | 2017 | 2018 | 2019E | 2020E | 2021E | 2022E | 2023E |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cash and equivalents | 200 | 514 | 564 | 436 | 1,047 | 1,141 | 1,621 | 2,283 | 2,959 | 3,744 |
| Net receivables | 88 | 142 | 279 | 603 | 921 | 1,452 | 1,970 | 2,603 | 3,377 | 4,307 |
| Inventory/stocks | 556 | 650 | 734 | 872 | 1,043 | 1,220 | 1,478 | 1,781 | 2,200 | 2,677 |
| Other current assets | 12 | 658 | 826 | 1,063 | 1,089 | 1,189 | 1,209 | 1,229 | 1,249 | 1,269 |
| Current assets | 857 | 1,964 | 2,403 | 2,975 | 4,100 | 5,003 | 6,279 | 7,896 | 9,785 | 11,998 |
| Gross PP\&E/Fixed assets | 870 | 982 | 1,160 | 1,345 | 1,466 | 1,893 | 2,368 | 2,872 | 3,492 | 4,243 |
| Less accumulated depreciation | (165) | (243) | (341) | (447) | (565) | (711) | (901) | $(1,137)$ | $(1,425)$ | $(1,774)$ |
| Less fixed asset impairment | - | - | - | - | - | - | - | - | - | - |
| Net PP\&E/Fixed assets | 705 | 739 | 819 | 898 | 901 | 1,182 | 1,467 | 1,734 | 2,067 | 2,469 |
| Gross intangibles | 150 | 160 | 167 | 238 | 235 | 285 | 335 | 385 | 435 | 485 |
| Accumulated amortization | (21) | (28) | (32) | (41) | (47) | (59) | (73) | (90) | (109) | (131) |
| Net intantigibles | 130 | 131 | 135 | 197 | 188 | 226 | 262 | 295 | 326 | 354 |
| Prepaid long-term expenses | 52 | 56 | 54 | 89 | 118 | 141 | 157 | 164 | 185 | 219 |
| Total investments | - | - | - | - | 34 | 34 | 34 | 34 | 34 | 34 |
| Other long-term assets | 7 | 12 | 16 | 230 | 337 | 387 | 437 | 487 | 537 | 587 |
| Total assets | 1,752 | 2,902 | 3,427 | 4,388 | 5,678 | 6,972 | 8,635 | 10,611 | 12,934 | 15,661 |
| Accounts payable | 423 | 565 | 752 | 1,275 | 1,960 | 2,440 | 3,127 | 3,918 | 4,840 | 5,890 |
| Short-term debt and current portion of long-term debt | - | - | - | - | - | - | - | - | - | - |
| Other current liabilities | 30 | 77 | 121 | 119 | 148 | 299 | 442 | 611 | 801 | 1,038 |
| Current liabilities | 453 | 642 | 873 | 1,395 | 2,108 | 2,740 | 3,569 | 4,529 | 5,641 | 6,928 |
| Long-term debt | 1 | - | - | - | - | - | - | - | - | - |
| Other long-term liabilities/creditors | 21 | 28 | 37 | 80 | 73 | 73 | 73 | 73 | 73 | 73 |
| Total long-term liabilities | 22 | 28 | 37 | 80 | 73 | 73 | 73 | 73 | 73 | 73 |
| Total liabilities | 475 | 670 | 910 | 1,474 | 2,181 | 2,813 | 3,642 | 4,602 | 5,714 | 7,001 |
| Preferred shares | - | - | - | - | - | - | - | - | - | - |
| Common stock (Share capital) | 400 | 460 | 920 | 920 | 920 | 920 | 920 | 920 | 920 | 920 |
| Capital surplus (additional paid in capital) | 54 | 732 | 272 | 272 | 272 | 272 | 272 | 272 | 272 | 272 |
| Treasury stock | - | - | - | - | - | - | - | - | - | - |
| Retained earnings and undistributed profit | 782 | 975 | 1,238 | 1,642 | 2,218 | 2,860 | 3,648 | 4,589 | 5,680 | 6,943 |
| Other common equity | - | - | - | - | - | - | - | - | - | - |
| Total common equity | 1,236 | 2,167 | 2,430 | 2,834 | 3,411 | 4,052 | 4,840 | 5,781 | 6,872 | 8,135 |
| Minority interest (balance sheet) | 40 | 65 | 87 | 80 | 86 | 108 | 153 | 228 | 348 | 525 |
| Total shareholders funds/equity | 1,277 | 2,232 | 2,517 | 2,914 | 3,497 | 4,160 | 4,993 | 6,009 | 7,220 | 8,660 |
| Total liabilities and equity | 1,752 | 2,902 | 3,427 | 4,388 | 5,678 | 6,972 | 8,635 | 10,611 | 12,934 | 15,661 |

Source: Company data, Gao Hua Securities Research

## Exhibit 63: Cash flow statement

| Cash flow statements | 2014 | 2015 | 2016 | 2017 | 2018 | 2019E | 2020E | 2021E | 2022E | 2023E |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Income pre-preferred share dividends | 340 | 423 | 493 | 634 | 807 | 1,069 | 1,359 | 1,680 | 2,021 | 2,429 |
| Minority interest add-back | (10) | (16) | (12) | (7) | 1 | 22 | 45 | 76 | 119 | 177 |
| Depreciation and amortization add-back | 84 | 111 | 141 | 159 | 198 | 224 | 286 | 351 | 416 | 494 |
| Net income from associates and jointly controlled entit | - | - | - | - | 0 | - | - | - | - | - |
| Net loss/(gain) on asset sales | (1) | (14) | (29) | (36) | (27) | - | - | - | - | - |
| (Increase)/decrease in working capital : | (37) | (6) | (34) | 61 | 197 | (229) | (90) | (145) | (271) | (357) |
| Accounts receivable | (4) | (54) | (136) | (325) | (318) | (531) | (518) | (633) | (774) | (930) |
| Inventory | (162) | (94) | (84) | (138) | (171) | (177) | (258) | (303) | (419) | (478) |
| Accounts payable | 129 | 142 | 187 | 524 | 685 | 480 | 687 | 791 | 922 | 1,051 |
| Other operating cash flow items | (32) | (1) | 122 | (94) | (348) | (150) | (70) | (70) | (70) | (70) |
| Cash flow from operations | 343 | 497 | 682 | 717 | 828 | 936 | 1,531 | 1,893 | 2,215 | 2,673 |
| Capital expenditure | (250) | (129) | (209) | (539) | (318) | (565) | (623) | (660) | (800) | (958) |
| (Acquisitions)/divestitures | 2 | 0 | 2 | 3 | 1 | - | - | - | - | - |
| Investments | 2 | (620) | (309) | (210) | (14) | - | - | - | - | - |
| Other investment cash flow items | 1 | 15 | 80 | 128 | 36 | - | - | - | - | - |
| Cash flow from investing | (246) | (734) | (436) | (617) | (296) | (565) | (623) | (660) | (800) | (958) |
| Dividends paid (common and preferred) | (25) | (230) | (230) | (230) | (230) | (276) | (428) | (571) | (739) | (929) |
| Share repurchase/issue (change In common stock) | 15 | 794 | 32 | - | 5 | - | - | - | - | - |
| Increase/(decrease) in short-term debt | - | - | - | - | - | - | - | - | - | - |
| Increase/(decrease) in long-term debt | 1 | (1) | - | - | - | - | - | - | - | - |
| Increase/(decrease) in preferred shares | - | - | - | - | - | - | - | - | - | - |
| Change in minority interest | - | - | - | - | - | - | - | - | - | - |
| Other financing cash flow items | - | (16) | - | - | - | - | - | - | - | - |
| Cash flow from financing | (9) | 548 | (198) | (230) | (225) | (276) | (428) | (571) | (739) | (929) |
| Effect of foreign exchange rate changes | (1) | 2 | 2 | (1) | 3 | - | - | - | - | - |
| Total cash flow | 87 | 314 | 49 | (131) | 309 | 94 | 480 | 662 | 676 | 785 |
| FCFF | 92 | 369 | 472 | 179 | 510 | 370 | 907 | 1,233 | 1,415 | 1,715 |

[^21]
## Valuation

## We value Shanghai M\&G based on 30x 2023E P/E discounted back to 2020E using

8.1\% COE. We believe the discounted P/E methodology is appropriate, given the company's net profit growth after 2023E may be lower than its net profit CAGR over the past five years as the industry becomes more mature. Since its listing in 2015, the company has traded at $35 \times 12$-month forward P/E on average, thanks to its stable and fast net profit growth (2016-2019E CAGR of $29 \%$ ) and strong ROE (averaging $26 \%$ in 2017-2019E). As we expect the net profit growth rate in 2023E to trend down to c.20\% yoy (lower than the high growth period over the past three years), with ROE staying at the $32 \%$ level in 2023E (higher than the past three years' average), we apply c. $15 \%$ discount to the forward P/E level over the past five years and derive a 2023E target multiple of 30 x .

Exhibit 64: Derivation of our 12-month target price for Shanghai M\&G

| Long term PE discount valuation | 2015 | 2016 | 2017 | 2018 | 2019E | 2020E | 2021E | 2022E | 2023E |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| EPS | 0.92 | 0.54 | 0.69 | 0.88 | 1.16 | 1.48 | 1.83 | 2.20 | 2.64 |
| yoy |  |  |  | 27\% | 32\% | 27\% | 24\% | 20\% | 20\% |
| Target PE multiple |  |  |  |  |  |  |  |  | $30.0 \times$ |
| 2023E stock price |  |  |  |  |  |  |  |  | 79 |
| COE |  |  |  |  |  |  |  |  | 8.1\% |
| Target price (12-M, Rmb) |  |  |  |  |  | 62.66 |  |  |  |
| Implied PE |  |  |  |  |  | 42.4 x | 34.3 x | 28.5 x | $23.7 \times$ |
| Current Price (Rmb) |  |  |  |  |  | 45.78 |  |  |  |
| Upside/downside |  |  |  |  |  | 37\% |  |  |  |

Source: Bloomberg, Company data, Gao Hua Securities Research

Exhibit 65: The stock has traded at $35 \times 12 \mathrm{~m}$ fwd $\mathrm{P} / \mathrm{E}$ on average since listing


Source: Wind
Our 2020-2021 EPS estimates are 3\%-6\% higher than Wind consensus, mainly because we are more optimistic on the margin expansion potential of its traditional stationery business, based on its pricing power and business moat.

We think the continuous strong growth and improving profitability of its office supplies business, and the sustainable strong growth of its stationery business could be solid drivers for the stock in the near term.

## M\&A framework

Across our global coverage, we examine stocks using an M\&A framework, considering
both qualitative factors and quantitative factors (which may vary across sectors and regions) to incorporate the potential that certain companies could be acquired. We then assign an $M \& A$ rank as a means of scoring companies under our rated coverage from 1 to 3 , with 1 representing high probability ( $30 \%-50 \%$ ) of the company becoming an acquisition target, 2 representing medium probability ( $15 \%-30 \%$ ) and 3 representing low probability ( $0 \%-15 \%$ ). For companies ranked 1 or 2, in line with our standard departmental guidelines, we incorporate an M\&A component into our target price. An $\mathrm{M} \& A$ rank of 3 is considered immaterial and therefore does not factor into our target price, and may or may not be discussed in research.
"Can": Our "Can" assessment measures the possibility of executing an acquisition if there is a bidder. We believe Shanghai M\&G's likelihood of becoming an M\&A target is relatively low given the founder and CEO, Mr. Huxiong Chen together with his brother and sister owned c.67\% of the listco as of June 2019, and they do not have any incentive to sell the company, in our view. Thus, we assign a score of 3 for this category.
"Should": Our "Should" assessment takes a fundamental view in justifying whether a company is an attractive $M \& A$ target for potential bidders. We see the business of Shanghai $M \& G$ as attractive given its top-ranked market position and strong earnings growth. However, we think the business itself may not generate meaningful synergies for potential acquirers given that the company operates across the entire value chain. Thus, we assign a score of 2 for this category.
"Would": In the "Would" section, we measure the strategic attractiveness of the assets and management stance against being acquired. We think management is unlikely to accept takeovers given their strong control of the company and expertise in the industry. Thus, we assign a score of 3 for this category.

Accordingly, we assign an overall M\&A rank of 3 to Shanghai M\&G.
Exhibit 66: Based on our M\&A framework, we assign an overall M\&A rank of 3 to Shanghai M\&G


| Should |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Growth (NI 19- <br> 22E CAGR) | Industry <br> positioning | Cost synergies | Valuation <br> 2020E PE | Overall Score |
| $25 \%$ | Leader | Low | 31 | 2 |


| Would |  |  |
| :---: | :---: | :---: |
| Strategic <br> Appeal | Mgmt Stance | Overall Score |
| Medium | Low | 3 |


| Final Score |
| :---: |
| Rank (1-3) |
| 3 |

[^22]
## Key risks to our investment thesis and target price

The biggest risk facing stationery is the move to electronics and digital equipment on the back of disruptive technology innovations. While we recognize this risk, we believe it would not materialize in the near future given technology constraints and long-existing writing habits. Other key risks include:

1) Intensified competition in the office supplies industry. If industry growth slows down significantly, players will shift their focus from new customer acquisition to market share competition, and this could result in revenue slowdown or profit loss for Colipu.
2) Over-reliance on major customers for the office supplies business. We estimate that the top five customers contributed over $30 \%$ of Colipu's sales in 2018. If these major customers were to source their products from competitors, Colipu's revenue will be negatively affected significantly.
3) Uncertainties of new retail business. Shanghai M\&G has plans to open more premium retail stores (mainly M\&G shops) in the coming years, and this business may incur losses in the early stage of operation and could drag the company's profit growth.
4) Lower-than-expected gross margin trend. We expect GP margins of the stationery business and office supplies business to improve on the back of increased bargaining power and improved operating efficiencies, which may not materialize if the company fails to reduce production-related costs or has difficulties to increase product ASPs.

Prices in this report are as of the market close of December 2, 2019, unless otherwise stated.

## Disclosure Appendix

## Reg AC

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Growth is based on a stock's forward-looking sales growth, EBITDA growth and EPS growth (for financial stocks, only EPS and sales growth), with a higher percentile indicating a higher growth company. Financial Returns is based on a stock's forward-looking ROE, ROCE and CROCI (for financial stocks, only ROE), with a higher percentile indicating a company with higher financial returns. Multiple is based on a stock's forward-looking P/E, P/B, price/dividend (P/D), EV/EBITDA, EV/FCF and EV/Debt Adjusted Cash Flow (DACF) (for financial stocks, only P/E, P/B and P/D), with a higher percentile indicating a stock trading at a higher multiple. The Integrated percentile is calculated as the average of the Growth percentile, Financial Returns percentile and ( $100 \%$ - Multiple percentile).

Financial Returns and Multiple use the Goldman Sachs analyst forecasts at the fiscal year-end at least three quarters in the future. Growth uses inputs for the fiscal year at least seven quarters in the future compared with the year at least three quarters in the future (on a per-share basis for all metrics).
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