# 2020

# SINGULUS TECHNOLOGIES

**Innovations for New Technologies** 





# Report First Half Year 2020



Inline wet processing system for cleaning and coating of contact lenses

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# Business Trends and Situation of the SINGULUS TECHNOLOGIES Group

- → COVID-19 pandemic significantly burdens sales and earnings
- → Numerous projects delayed
- Increased order intake and order backlog due to completion of additional CIGS solar contracts
- → Sales in the amount of € 16.2 million and loss of € 14.3 million (EBIT)
- → Share of renewable energies to European electricity market exceeds fossil energy sources for the first time

The global impact of the COVID-19 pandemic was felt in nearly all of the company's segments in the first half of the year. This resulted in a significant burden on the key financial results in the period under review. While in the first quarter the impact of the pandemic was mainly limited to the business activities within China, this development accelerated further in the course of the second quarter. On the one hand, due to the global spread of the virus all key sales markets of the company were affected, on the other hand, due to the rigid implementation of long-lasting lockdowns in many countries as well as due to the resulting actual stop of travel, the operating course of business was impacted significantly. During the course of the first half of the year, the completion of nearly all of the projects in the order backlog as planned was impossible. This resulted in a negative development of the sales and earnings results for the period under review.

The Executive Board initiated various cost saving programs. This concerns both personnel and non-personnel expenses. The company has been applying the instrument of short-term labor for the two German sites in Kahl am Main and in Fürstenfeldbruck since April 1, 2020.

The sales in the amount of € 16.2 million in the first half-year 2020 were substantially lower than the prior-year level of € 44.1 million due to the COVID-19 pandemic. The earnings before interest and taxes (EBIT) declined to € -14.3 million (previous year: 1.6 million). In the second quarter 2020 sales in the amount of € 5.3 million (previous year: € 23.3 million) were booked. In the second quarter 2020 the EBIT was negative at € 8.5 million (previous year: € 0.5 million). Overall, the key results are mainly driven by the COVID-19 pandemic, which already had very strong impacts on the core sales market China in the first quarter. Furthermore, at the beginning of the year the still low order backlog as of the past business year 2019 had an impact.

However, the order intake noted a positive trend in the first half-year and came to € 66.9 million (previous year: € 27.1 million). On January 15, 2020, SINGULUS TECHNOLOGIES signed contracts with a subsidiary of the China National Building Materials Group (CNBM), Beijing, China, for the delivery of machines for the production of CIGS solar modules. Accordingly, the order backlog of € 77.0 million (June 30, 2019: € 49.0 million) was therefore above the prior-year level.

As of June 30, 2020, the liquidity position of SINGULUS TECHNOLOGIES amounted to € 6.4 million. After the completion of the reporting period until July 31, 2020 further payments from the machine activities with a volume of € 14.2 million were received.

The headcount within the SINGULUS TECHNOLOGIES Group as of June 30, 2020 remained at a constant level of 354 employees (December 30, 2019: 351 employees).

## Solar Segment

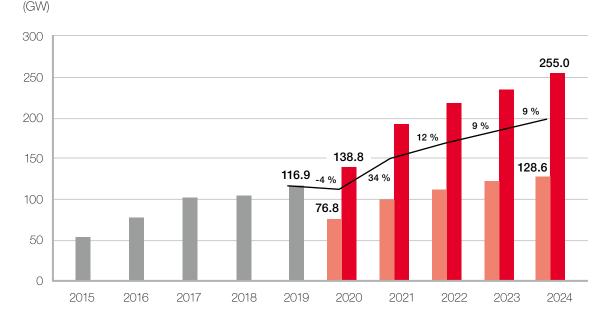
All leading solar market analysts have significantly lowered their forecasts for the newly installed PV capacities for 2020 during the first months of the current year in connection with the COVID-19 pandemic. The largest short-term cuts were made by IHS Markit, which lowered its forecasts for 2020 from 142 GW provided in December of 2019 to 109 GW in April 2020. This corresponds to a decline of 26 %. At the end of May the estimates of the analysts ranged from 106 GW (Wood Mackenzie) to 111 GW (Bloomberg NEF). The current market analysis by SolarPower Europe forecast a base scenario of expected newly installed PV capacity of 112 GW for the year 2020. Compared with 2019 this would mean a market decline of 4 %.

In particular, according to these market analyses the future development in China is of key importance for the future demand for PV capacities.

However, globally solar power is today still regarded as a decisive factor for the set-up of a secure and sustainable energy system. All of the energy scenarios developed by the EU in the context of the climate goals for 2050 assign a key role to the photovoltaics technology.

For the first time, in the first half of 2020 the share of renewable energies to the overall European electricity market was larger than that of fossil energy sources. Ember, a think tank for the energy transition in Great Britain, has calculated that renewable energies reached

# Annual Solar PV Market Scenarios 2020-2024



Source: SolarPower Europe 2020



a 40 % share of the overall EU market. Accordingly, fossil power station accounted for 34 % in the first half of 2020.

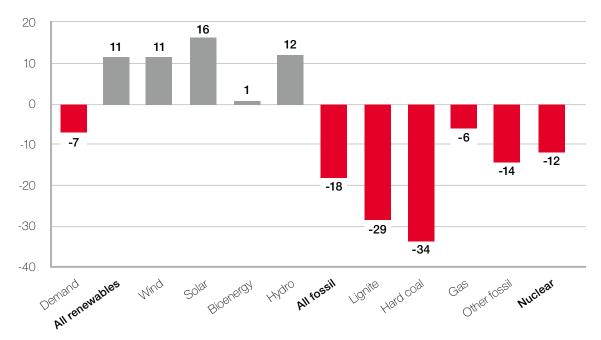
From the company's perspective the general framework conditions are in favor of long-term growth in the photovoltaics industry. In the coming years, SINGULUS TECHNOLOGIES will focus on the specialized markets for thin-film based solar modules (e.g. CIGS) and the new crystalline, high-performance solar cells (e.g. HJT) and will focus its sales efforts on these applications. In the short-term, the company expects a gradual recovery of demand for PV capacities in the second half of 2020.

The customer CNBM receives a high level of importance with a planned expansion of 6 GW production capacity for CIGS solar modules. In the first factory for CIGS solar modules in the city of Bengbu, China, all of the production machines for the first expansion step of 150 MW capacity received final acceptance by the customer. Five additional CISARIS machines are in the stage of final acceptance to achieve the final capacity of 300 MW.

In the area of the new high-performance solar cells such as heterojunction (HJT), a globally increasing growth of production capacities is expected. There are several initiatives in Europe based on this technology to discuss the cell production at a GW scale.

# Less demand, more renewables squeeze fossil

(% Change from H1-2019 to H1-2020, EU 27 Electricity Generation)



Source: Ember

SINGULUS TECHNOLOGIES has developed own machines for the cell production of HJT. In addition to the machines of the SILEX II type for the wetchemical treatment of cells, the company markets the new GENERIS PVD vacuum coating machines for cathode sputtering. The company's goal is to establish itself as a technologic leader for the key process steps used in the production of highly efficient cells.

## Life Science Segment

In this segment SINGULUS TECHNOLOGIES combined the new product solutions for Medical Technology, Decorative Coatings as well as machine and service solutions of the work area Data Storage Technology.

For medical technology SINGULUS TECHNOLOGIES offers production machines for wet-chemical processes as well as various methods of vacuum coating technology. Within these applications the company is currently mainly active in the market for production machines for contact lenses. According to research studies the global market for contact lenses should grow annually by 5.4 % until 2021 and thus offers a favorable outlook. However, in the current year investment programs were also delayed to the near future due to the impacts of the COVID-19 pandemic.

With the production machines by SINGULUS TECHNOLOGIES under the brand name DECOLINE II, functional copper layers can be applied in vacuum. Metallic copper surfaces do not only have a permanent antimicrobial effectiveness against a large number of gram-negative and -positive bacteria as well as against viruses, but can also effectively kill micro-organisms with a high infectious risk potential. One way to reduce the risk of infection - for example by MRSA (methicillin-resistant Staphylococcus aureus, so-called "hospital bacteria") and E. Coli bacteria - lies in the use of specially coated products with a permanently antibacterial and

antiviral surface. This process is immediately available and can satisfy the growing, general demand for hygienic objects, which are touched in public, and which is thus helpful to prevent harmful infections.

With the machines of the POLYCOATER and the DECOLINE II type also the chrome (VI)-free coating of parts for various application areas becomes possible and the use of galvanics becomes obsolete. In addition to applications in the cosmetics sector, such processes can also be used by supplier companies to the automotive industry for components in chrome appearance for control elements such as push buttons and levers for switches.

In the work area Data Storage the service and replacement part activities shadows the declining trend of optical storage media. This trend was amplified in the quarter under review mainly due to the shutdown of production capacities resulting from the COVID-19 pandemic. New applications in the area of data storage technology will remain a niche market in the future.

#### **Semiconductor Segment**

In the semiconductor market SINGULUS TECHNOLOGIES supplies a niche with special applications such as sensory technology or the application of ultra-thin metallic coating systems and is thus decoupled from the investment cycles of the global semiconductor market. The company manufactures the machine systems TIMARIS and ROTARIS in the area of vacuum machines and on those existing platforms the respective modified manufacturing systems are marketed. Due to the existing competence for wet-chemical manufacturing processes these machines are also offered for the cleaning and etching of semiconductors, MEMS and other electronic parts. Also in the Semiconductor segment projects were delayed in various countries due to the COVID-19 pandemic.

# **Key Financial Figures**

# Order intake and order backlog

The order intake in the 1<sup>st</sup> half of 2020 amounted to 66.9 million (previous year: € 27.1 million), which was higher than the level achieved in the 1<sup>st</sup> half of 2019. In the quarter under review the order intake came to € 3.3 million (previous year: € 15.3 million). The order backlog amounted to € 77.0 million as of June 30, 2020 (June 30, 2019: € 49.0 million).

# Sales and earnings

The global impact of the COVID-19 pandemic resulted in a substantial burden on the key financial results in the first half of the year. Accordingly, sales in the first six

months of the business year 2020 stood at € 16.2 million, significantly below the prior year level of € 44.1 million. Specifically, sales in the first half-year of 2020 are split into € 7.0 million in the Solar segment (previous year: € 29.0 million), Life Science at € 6.9 million (previous year: 12.8 million) and Semiconductor at € 2.3 million (previous year: € 2.3 million). In the quarter under review sales accumulated at € 2.4 million in the Solar segment (previous year: € 15.1 million), in the Life Science segment at € 1.8 million (previous year: 6.8 million) and in the Semiconductor segment at € 1.1 million (previous year: € 1.4 million). Within the core segment Solar declines in sales on a half-year basis and on a quarterly basis in the amounts of 76 % and 84 %, respectively, were recorded.

, ,	Segment Segment Solar Segment Life Science Semiconductor				SING TECHNO Gro	LOGIES		
Segment reporting from January 1 to June 30,	2020	2019	2020	2019	2020	2019	2020	2019
2020 and 2019	million €	million €	million €	million €	million €	million €	million €	million €
6-month figures								
Sales (gross)	7.0	29.0	6.9	12.8	2.3	2.3	16.2	44.1
Sales deduction and individual selling expenses	0.0	-0.1	-0.2	-0.4	0.0	0.0	-0.2	-0.5
Sales (net)	7.0	28.9	6.7	12.4	2.3	2.3	16.0	43.6
Write-offs and amortization	-1.7	-1.4	-0.5	-0.5	-0.1	-0.1	-2.3	-2.0
Operating result (EBIT)	-9.4	1.8	-3.5	0.7	-1.4	-0.9	-14.3	1.6
Financial result							-1.1	-1.1
Earnings before taxes							-15.4	0.5
2 <sup>nd</sup> Quarter								
Sales (gross)	2.4	15.1	1.8	6.8	1.1	1.4	5.3	23.3
Sales deduction and individual		0.4		0.0				0.0
selling expenses	0.0	-0.1	0.0	-0.2	0.0	0.0	0.0	-0.3
Sales (net)	2.4	15.0	1.8	6.6	1.1	1.4	5.3	23.0
Write-offs and amortization	-1.0	-0.7	-0.2	-0.3	-0.1	-0.1	-1.3	-1.1
Operating result (EBIT)	-3.8	0.8	-4.0	0.3	-0.7	-0.6	-8.5	0.5
Financial result						-0.5	-0.5	
Earnings before taxes							-9.0	0.0

For the first half of 2020 the percentage regional sales breakdown was as follows: Asia 35.2 % (previous year: 66.5 %), Europe 43.8 % (previous year: 17.2 %), North and South America 20.4 % (previous year: 16.1 %) as well as Africa and Australia 0.6 % (previous year: 0.2 %). The percentage regional breakdown of sales for the second quarter 2020 was as follows: Asia 47.2 % (previous year: 66.1 %), Europe 20.7 % (previous year: 21.5 %), North and South America 30.2 % (previous year: 12.0 %) as well as Africa and Australia 1.9 % (previous year: 0.4 %).

In the first half of 2020 the gross profit margin was considerably negatively affected and amounted to -3.8 % (previous year: 32.3 %). In the second quarter 2020 the gross profit margin amounted to -28.3 % (previous year: 33.5 %) due to a lack in sales. In addition to the lower sales, another main reason was the high under-utilization of the existing production sites in Kahl am Main and in Fürstenfeldbruck due to the COVID-19 pandemic as well as increased manufacturing costs in ongoing projects.

The operating expenses in the first half-year 2020 in the amount of  $\in$  13.7 million were above the prior-year level ( $\in$  12.5 million). This is mainly due to higher development expenses in connection with the company's strategic projects within the segments Solar and Life Science. The cost-saving measures initiated by the Executive Board with respect to personnel and non-personnel expenses were able to slightly lower the expenses in the divisions sales and marketing and general administration.

In the quarter under review the expenses for research and development amounted to  $\in$  2.7 million (previous year:  $\in$  1.6 million), for sales and marketing and customer services to  $\in$  2.3 million (previous year:  $\in$  2.8 million) and general & administrative expenses to  $\in$  2.3 million (previous year:  $\in$  2.4 million). The other

operating expenses came to  $\in$  0.2 million (previous year:  $\in$  0.2 million), the other operating income stood at  $\in$  0.1 million (previous year:  $\in$  0.2 million).

Overall, in the first half of 2020 earnings before interest and taxes (EBIT) were negative at  $\in$  -14.3 million (previous year:  $\in$  1.6 million). In the 2<sup>nd</sup> quarter 2020 the EBIT was also negative at  $\in$  -8.5 million (previous year:  $\in$  0.5 million).

## Balance sheet and liquidity

In the period under review the short-term assets totaled € 40.4 million (December 31, 2019: € 51.5 million). The main reason here is the decline in cash and cash equivalents to € 6.4 million (December 31, 2019: € 14.8 million) as well as the decline in accounts receivable to € 2.9 million (December 31, 2019: € 5.8 million). In the period after the balance sheet date the company received significant payments in the amount of € 14.2 million as of July 31, 2020.

The long-term assets amounted to € 32.0 million as of June 30, 2020, around the level of the prior period (December 31, 2019: € 32.2 million).

The short-term debt increased compared with the level at the end of 2019 and amounted to € 43.5 million as of June 30, 2020 (December 31, 2019: € 38.2 million). The liabilities from production orders increased by € 9.5 million to € 16.1 million (December 31, 2019: € 6.6 million) due to the received prepayments for major projects. In contrast, the accounts payable declined by € 3.1 million to € 5.2 million (December 31, 2019: € 8.3 million).

The long-term liabilities amounted to € 36.3 million as of June 30, 2020, slightly below the level of the prior period (December 31, 2019: € 38.5 million).

## Shareholders' equity

The shareholders' equity within the Group amounts to € -7.9 million as of June 30, 2020 due to the sustained losses, which is fully attributable to the shareholders of the parent company (December 31, 2019: € 7.0 million). Nevertheless, the company projects a significant improvement of the shareholders' equity position in the coming years.

#### Cash flow

In the second quarter of 2020 the operating cash flow in the Group was negative at € -4.7 million (previous year: € -5.8 million). The cash flow from investing activities came to € -1.9 million (previous year: € -2.0 million). The cash flow from financing activities came to € -1.7 million overall (previous year: € 4.3 million). During the first quarter of the business year the company has prolonged the maturity of a senior-secured loan (€ 4.0 million) until March 2021. Overall, the amount of liquid funds declined by € 8.4 million in the  $2^{nd}$  quarter 2020 to currently € 6.4 million (December 31, 2019: € 14.8 million).

# Risk Report

SINGULUS TECHNOLOGIES as an internationally operating company continuously monitors the developments in connection with the outbreak of the COVID-19 pandemic and its economic consequences for the company. At the beginning of the second quarter the Executive Board implemented measures to ensure the safety of the employees of SINGULUS TECHNOLOGIES. The compliance with these measures are continuously monitored by the Executive Board and an emergency task force set up for this situation. The company complies with all of the applicable rules and recommendations of the relevant national and regional authorities.

Furthermore, the expenses in all of the company's areas were analyzed and, if possible, adjusted to the current situation.

At this point in time there is material uncertainty with respect to the future development of the pandemic. A final assessment of the further impacts on the business operations is thus currently not possible. Management is closely monitoring the situation in order to be able to implement required countermeasures.

Within the risk report for the business year 2019, the project and sales market risks for the Solar segment as well as the liquidity risk were defined essential risks for the Group.

#### Sales market risk

Due to the substantial decline in the business activities in connection with the COVID-19 pandemic, the sales market risk in the Solar segment is rated with an unchanged relevance score of 5. Even after the signing of the delivery contracts with CNBM for the production site in Xuzhou and the receipt of the first prepayment, the company currently regards the probability of occurrence of the sales market risk as being high. Accordingly, the risk is still rated to be existential.

From today's perspective the global economy is to a large extent dependent on the future development of the COVID-19 pandemic. As a result, the global economy, in particular in important sales markets for the company, could weaken for a prolonged period of time. However, the impacts cannot be quantified from today's point of view.

## Liquidity risk

Currently, we still rate the liquidity risk unchanged with a relevance score of 5. Despite the receipt of additional partial payments of the customer CNBM during the period under review and during drawing up the accounts, we rate the probability of occurrence as being high. The continuation of the company is mainly dependent on realizing the budgeted plans in the next two years. It is an essential requisite for the continuation of the company that the partial payments by customers in connection with already concluded major orders are made as agreed. In particular, the receipt of additional partial payments by the customer CNBM as planned is required.

Moreover, winning an additional large order or a combination of equivalent alternative projects in the current business year is required. Furthermore, a successful and timely refinancing of the corporate bond in the amount of € 12.0 million due in July 2021 is a central component of securing the liquidity situation within the company. If the respective cash inflows cannot be realized as planned, the level of cash and cash equivalents will not be sufficient during the course of the year 2021 to completely honor all payment obligations. Insofar, the continuation of the company and thus of the Group is threatened. Material delays in payments or credit losses within these projects could not be compensated for.

In addition, we would like to once again point out that the future development of the COVID-19 pandemic could have negative impacts on the course of business in particular with respect to the demand situation as well as the course of essential customer orders. In this connection there could be substantial delays or even the failure to receive relevant partial payments.

#### Project risk

With respect to the project risk in particular the order progress for the delivery and installation of machines for the manufacturing of CIGS solar modules for the customer CNBM as planned is of essential importance for the continuation of the company. Currently, we still rate the project risk unchanged with a relevance score of 5. We still rate the probability of occurrence with

an unchanged medium assessment. After significant delays the respective machines for the first expansion stage for 150 MW of the factory in Bengbu, China, have completely passed the process towards final acceptance in the quarter under review. For the production site in Meishan the company expects the final acceptance of the machines in close cooperation with the customer by the end of the business year 2020. Negative impacts could result in connection with the future development of the COVID-19 pandemic in particular within China. If measures to further contain the virus are maintained over a prolonged period of time or further expanded, this could lead to substantial delays in the completion of material projects.

Generally, we point out that the realization of project risks within major projects would have material negative impacts on the asset, financial and earnings situation of the company. If the projects fail as a whole or in parts or the planned economic success is not sufficiently realized, this could have material negative impacts up to threatening the existence of the company.

Otherwise, in connection with the risk reporting during the first six months of the business year 2020, compared with the risks depicted in the combined status report of the Annual Report for the year 2019, there were no further material changes.

#### Development of costs and prices

From our point of view, the selling prices developed as planned during the period under review. Also the procurement prices and as a result the cost of goods sold were within our expectations. The company filed for short-term labor from April 1, 2020 to reduce the personnel expenses during the low utilization due to the COVID-19 pandemic. In addition, the non-personnel expenses were also reduced. Generally, the future development of procurements prices and the realizable selling prices are currently not predictable.

## Research and development

At  $\in$  5.6 million in total the expenses for developments in the first half of 2020 were below the prior-year's level of  $\in$  6.2 million. The expenses for development activities came to  $\in$  2.9 million (previous year:  $\in$  3.2 million) in the quarter under review.

# **Employees**

The headcount within the SINGULUS TECHNOLOGIES Group of 354 employees remained at the level of the end of the previous business year (December 31, 2019: 351).

# The SINGULUS TECHNOLOGIES Stock

In the second quarter 2020 the stock price of the SINGULUS TECHNOLOGIES shares traded significantly lower than in the previous quarter. On August 7, 2020 the shares traded at € 4.06 in Frankfurt (Xetra).

The freefloat of the SINGULUS TECHNOLOGIES shares currently amount to around 66 %.

# The SINGULUS TECHNOLOGIES Corporate Bond

The bond of the SINGULUS TECHNOLOGIES AG with a nominal value of € 12.0 million is trading at the Open Market of Deutsche Boerse AG at the Frankfurt Stock Exchange since July 2016 under the security identification number WKN A2AA5H (ISIN DE000A2AA5H5 - ticker symbol SNGB). The bond is collateralized, has a term to maturity of five years and provides for annually increasing interest payments. As of the print deadline, the price of the bond stood at 82.0 % on August 7, 2020 in Frankfurt.

# Outlook for the Business Year 2020 not possible

While starting in China already in the first quarter wide parts of industries, and thus our customers, were affected by COVID-19 in Asia, the pandemic has reached global scope and thus affects all of our customers and suppliers. The impacts of the COVID-19 pandemic on all of our company's divisions are substantial.

Due to the current situation SINGULUS TECHNOLOGIES is not able to specify the impacts with sufficient accuracy. Accordingly, the Executive Board refrains from providing an outlook for the key financial results. Consequently, the Executive Board of SINGULUS TECHNOLOGIES has already decided in the second quarter that the former forecast for the business year 2020 as published in connection with the full-year results for 2019 can no longer be maintained.

Best regards,

The Executive Board

SINGULUS TECHNOLOGIES AG

# SINGULUS TECHNOLOGIES Group Balance Sheet

as of June 30, 2020 and December 31, 2019

ASSETS	June 30, 2020 [million €]	Dec. 31, 2019 [million €]
Cash and cash equivalents	6.4	14.8
Restricted cash	4.1	4.4
Trade receivables	2.9	5.8
Receivables from construction contracts	6.2	4.6
Other receivables and other assets	5.3	6.4
Total receivables and other assets	14.4	16.8
Raw materials, consumables and supplies	8.3	8.8
Work in process	7.2	6.7
Total inventories	15.5	15.5
Total current assets	40.4	51.5
Property, plant and equipment	14.7	15.6
Capitalized development costs	10.2	9.5
Goodwill	6.7	6.7
Other intangible assets	0.4	0.4
Deferred tax assets	32.0	32.2

Total assets 72.4 83.7

EQUITY AND LIABILITIES	June 30, 2020 [million €]	Dec. 31, 2019 [million €]
Trade payables	5.2	8.3
Prepayments received	3.0	2.6
Liabilities from construction contracts	16.1	6.6
Financing liabilities from the issuance of loans	4.0	4.0
Financing liabilities from the issuance of bonds	0.8	0.8
Current leasing liabilities	2.4	2.4
Other current liabilities	6.7	9.1
Provisions for restructuring measures	0.2	0.2
Provisions for taxes	0.6	0.9
Other provisions	4.5	3.3
Total current liabilities	43.5	38.2
Financing liabilities from the issuance of bonds	12.0	12.0
Non-current leasing liabilities	6.2	7.3
Pension provisions	16.1	16.2
Deferred tax liabilities	2.5	3.0
Total non-current liabilities	36.8	38.5
Total liabilities	80.3	76.7
Subscribed capital	8.9	8.9
Capital reserves	19.8	19.8
Other reserves	-3.6	-3.7
Retained earnings	-33.0	-18.0
Equity attributable to owners of the parent	-7.9	7.0
Total equity	-7.9	7.0
Total equity and liabilities	72.4	83.7

# SINGULUS TECHNOLOGIES Group Income Statement

from January 1 to June 30, 2020 and 2019

	2 <sup>nd</sup> Quart	er 2020	20 2 <sup>nd</sup> Quarter 2019		Jan. 1 - June	30, 2020	Jan. 1 - June 30, 2019	
	[million €]	[%]	[million €]	[%]	[million €]	[%]	[million €]	[%]
Revenue (gross)	5.3	100.0	23.3	101.3	16.2	101.3	44.1	101.1
Sales deductions and direct selling costs	0.0	0.0	-0.3	-1.3	-0.2	-1.3	-0.5	-1.1
Revenue (net)	5.3	100.0	23.0	100.0	16.0	100.0	43.6	100.0
Cost of sales	-6.8	-128.3	-15.3	-66.5	-16.6	-103.8	-29.5	-67.7
Gross profit on sales	-1.5	-28.3	7.7	33.5	-0.6	-3.8	14.1	32.3
Research and development	-2.7	-50.9	-1.6	-7.0	-4.5	-28.1	-3.0	-6.9
Sales and customer service	-2.3	-43.4	-2.8	-12.2	-5.0	-31.3	-5.2	-11.9
General administration	-2.3	-43.4	-2.4	-10.4	-4.4	-27.5	-4.2	-9.6
Other operating expenses	0.2	3.8	-0.2	-0.9	-0.1	-0.6	-0.2	-0.5
Other operating income	0.1	1.9	-0.2	-0.9	0.3	1.9	0.1	0.2
Total operating expenses	-7.0	-132.1	-7.2	-31.3	-13.7	-85.6	-12.5	-28.7
Operating result (EBIT)	-8.5	-160.4	0.5	2.2	-14.3	-89.4	1.6	3.7
Finance income	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Finance costs	-0.5	-9.4	-0.5	-2.2	-1.1	-6.9	-1.1	-2.5
EBT	-9.0	-169.8	0.0	0.0	-15.4	-96.3	0.5	1.1
Tax expense/income	0.6	11.3	-0.2	-0.9	0.4	2.5	-0.5	-1.1
Profit or loss for the period	-8.4	-158.5	-0.2	-0.9	-15.0	-93.8	0.0	0.0
Thereof attributable to:								
Owners of the parent	-8.4		-0.2		-15.0		0.0	
Non-controlling interests	0.0		0.0		0.0		0.0	
	[€]		[€]		[€]		[€]	
Basic earnings per share based on the profit for the period (in EUR) attributable to owners of the parent	-0.94		-0.02		-1.69		0.0	
Diluted earnings per share based on the profit for the period (in EUR) attributable to owners of the parent	-0.94		-0.02		-1.69		0.0	

# SINGULUS TECHNOLOGIES Group Statement of Comprehensive Income

from January 1 to June 30, 2020 and 2019

	2 <sup>nd</sup> Quarter 2020 [million €]	2 <sup>nd</sup> Quarter 2019	Jan. 1 - June 30, 2020 [million €]	Jan. 1 - June 30, 2019
Profit or loss for the period	-8.4	-0.2	-15.0	0.0
Items that will be reclassified to profit and loss:				
Exchange differences in the fiscal year	-0.1	-0.1	0.1	0.1
Total income and expense recognized directly in other comprehensive income	-0.1	-0.1	0.1	0.1
Total comprehensive income	-8.5	-0.3	-14.9	0.1
Thereof attributable to:				
Owners of the parent	-8.5	-0.3	-14.9	0.1

# SINGULUS TECHNOLOGIES Group Statement of Changes in Equity

as of June 30, 2020 and 2019

# **Equity Attributable to Owners of the Parent**

	Equity / itti	Equity Attributable to Owners of the Furent				
	Subscribed Capital	Capital Reserves	Other Reserves*			
	[million €]	[million €]	Currency Translation Reserves [million €]			
As of January 1, 2019	8.9	19.8	3.6			
Profit or loss for the period	0.0	0.0	0.0			
Other comprehensive income	0.0	0.0	0.1			
Total comprehensive income	0.0	0.0	0.1			
As of June 30, 2019	8.9	19.8	3.7			
As of January 1, 2020	8.9	19.8	3.9			
Profit or loss for the period	0.0	0.0	0.0			
Other comprehensive income	0.0	0.0	0.1			
Total comprehensive income	0.0	0.0	0.1			
As of June 30, 2020	8.9	19.8	4.0			

<sup>\*</sup> Prior-year figures and designation adjusted (we refer to the explanation in the annotations to the interim report)

Equity	ontrolling Interests	Non-C	utable to Owners of the Parent	Equity Attrib
		Total	Retained Earnings*	Other Reserves*
			Other	Actual Gains and
			Retained	Losses from Pension
			Reserves	Commitments
[million €]	[million €]	[million €]	[million €]	[million €]
19.7	0.0	19.7	-6.7	-5.9
0.0	0.0	0.0	0.0	0.0
0.1	0.0	0.1	0.0	0.0
0.1	0.0	0.1	0.0	0.0
19.8	0.0	19.8	-6.7	-5.9
7.0	0.0	7.0	-18.0	-7.6
-15.0	0.0	-15.0	-15.0	0.0
0.1	0.0	0.1	0.0	0.0
-14.9	0.0	-14.9	-15.0	0.0
-7.9	0.0	-7.9	-33.0	-7.6

# SINGULUS TECHNOLOGIES Group Statement of Cash Flows

from January 1 to June 30, 2020 and 2019

	Jan. 1 - June 30, 2020 [million €]	Jan. 1 - June 30, 2019 [million €]
Cash flows from operating activities		
Profit or loss for the period	-15.0	0.0
Adjustment to reconcile profit or loss for the period to net cash flow		
Amortization, depreciation and impairment of non-current assets	2.3	2.0
Contribution to the pension provisions	0.0	0.1
Net finance costs	1.1	1.1
Net tax expense	-0.4	0.5
Change in trade receivables	2.9	0.9
Change in construction contracts	7.7	0.6
Change in other receivables and other assets	1.1	-2.0
Change in inventories	0.1	-0.3
Change in trade payables	-3.1	-5.7
Change in other liabilities	-2.4	-1.2
Change in prepayments	0.3	0.0
Change in provisions from restructuring measures	0.0	-1.9
Change in further provisions	1.0	0.2
Interest paid	-0.3	-0.1
	10.3	-5.8
Net cash from/used in operating activities	-4.7	-5.8

	Jan. 1 - June 30, 2020 [million €]	Jan. 1 - June 3 [million s	,
Cash flows from investing activities			
Cash paid for investments in development projects	-1.5	-1.9	
Cash paid for investments in other intangible assets and property, plant and equipment	-0.4	-0.1	
Net cash from/used in investing activities	-1.9		-2.0
Cash flows from financing activities			
Cash used to pay bond interest	-0.5	-0.4	
Cash received/used on the issuance of loans	0.0	3.9	
Cash used to pay loan interest	-0.1	-0.1	
Cash used to pay leasing liabilities	-1.4	-1.3	
Cash received/used on financial assets subject to restrictions on disposal	0.3	2.2	
Net cash from/used in financing activities	-1.7		4.3
Cash and cash equivalents at the beginning of the reporting period	-8.3		-3.5
Effect of exchange rate changes	-0.1		0.1
Cash and cash equivalents at the beginning of the reporting period	14.8		13.5
Cash and cash equivalents at the end of the reporting period	6.4		10.1

Cash and cash equivalents comprise monetary investments with a remaining maturity of up to three months at the time of acquisition.

Financial assets subject to restrictions on disposal are presented separately in the balance sheet. These financial assets relate to the Company's financing transactions and are included in the consolidated cash flow statement as cash flows from financing activities.

# Annotations to the Interim Report

The SINGULUS TECHNOLOGIES Aktiengesellschaft (in the following also "SINGULUS" or the "company") is an exchange-listed capital company domiciled in Germany. The presented consolidated financial accounts for the interim reporting of the SINGULUS TECHNOLOGIES AG and its subsidiaries ("Group") for the first six months of the business year 2020 were approved for publication by resolution of the Executive Board as per August 7, 2020.

The consolidated financial accounts were drawn up in Euro ( $\in$ ). If not stated otherwise, all figures are in millions of Euro (million  $\in$ ). Due to statements in million  $\in$  differences in rounding may occur.

#### Accounting and valuation principles

The preparation of the abbreviated consolidated interim results for the period from January 1 to June 30, 2020 was made pursuant to IAS 34 "Interim Financial Reporting". The abbreviated consolidated interim results do not include all of the notes and information required for the reporting for the full business year and should be read in conjunction with the consolidated financial accounts as of December 31, 2019. The interim financial accounts were neither audited nor reviewed by auditors.

The preparation of the interim results pursuant to IAS 34 requires estimates and assumptions by the management, affecting the level of the reported assets, liabilities, sales, income, expenses as well as contingent liabilities. These assumptions and estimates mainly affect the Group-consistent determination of useful life expectancy, the write-offs of assets, the valuation of provisions, the recoverability of receivables, the determination of realizable terminal values with regards to inventories as well as the

realizability of future tax relieves. The actual values can differ from the assumptions and estimates made on a case by case basis. Changes are recognized affecting earnings at the time of the knowledge gained. The accounting and valuation methods applied for the consolidated accounts for the interim reporting correspond to those applied for the most recent consolidated financial report as of the end of the business year 2019. For a detailed description of the accounting principles please refer to the notes of the consolidated financial statements of our Annual Report 2019.

The consumption of more than half of the nominal capital pursuant to HGB was incurred in the business year 2017 and was reported on September 21, 2017. The extraordinary shareholders' meeting took place on November 29, 2017.

However, from today's point of view, the company has sufficient available liquid funds to safeguard the course of business and therefore draws up the financial statement according to the going concern assumptions. Nevertheless, it has to be pointed out that the continuation of the company pursuant to the liquidity planning depends on the realization of the plans in the next two years. The essential prerequisites for the plans are that the partial payments of the customers, which are payable due to the already contracted large orders, are actually made without material delays. Moreover, winning an additional large order or a combination of equivalent alternative projects in the current business year is required. Furthermore, a successful and timely refinancing of the corporate bond in the amount of € 12 million due in July 2021 is a central component of securing the liquidity situation within the company. If the respective cash inflows cannot be realized as planned, the level of cash and cash equivalents will not be sufficient during the course of the year 2021 to completely honor all payment obligations. Insofar, the continuation of the company and thus of the Group is threatened.

These events and conditions indicate the existence of material uncertainty, which can cast considerable doubt on the company's ability to continue its business activities and which pose an existence-threatening risk in the meaning of Art. 322 Para. 2 Sent. 3 HGB.

# Revised presentation of shareholders' equity

The company has decided to adjust the individual items of the shareholders' equity with respect to its structure and its labeling to clarify the financial statements. The following changes result:

- (i) The shareholders' equity items "Reserves" and "Loss carry forwards" are renamed to "Other reserves" and "Retained earnings".
- (ii) In the previous reporting periods finance-mathematical profits and losses from pension benefits were categorized under "Loss carry forward". The company will regroup these effects to "Other reserves". The prior-year results were adjusted correspondingly.

This change does not have an impact on the asset or earnings situation of the Group.

## Scope of consolidation

In addition to the SINGULUS TECHNOLOGIES AG, the consolidated financial statements include all companies, which are legally or factually controlled by the company. In the interim report as of June 30, 2020, in addition to the SINGULUS TECHNOLOGIES AG two domestic and ten foreign subsidiaries were included overall. No companies have been added or excluded from the scope of consolidation in the period under review.

# Accounts receivable and receivables from production orders

The accounts receivable and production receivables as of June 30, 2020 are split as follows:

	June 30, 2020 in million €	Dec. 31, 2019 in million €
Accounts receivable - short-term	3.1	6.9
Receivables from production orders	6.2	4.6
Less write-offs	-0.2	-1.1
	9.1	10.4

# Intangible assets

Capitalized development expenses, goodwill, customer bases as well as concessions, intellectual property rights and other intangibles are included under intangible assets. As of June 30, 2020, the capitalized development expenses amounted to € 10.2 million (December 31, 2019: € 9.5 million). In the first six months of 2020 the investments in developments totaled € 1.5 million (previous year: € 1.9 million). Scheduled write-offs and amortization on capitalized development expenses amounted to € 0.9 million (previous year: € 0.6 million). In the quarter under review development expenses amounted to € 1.0 million (previous year: € 1.1 million), the scheduled amortization amounted to € 0.5 million (previous year: € 0.3 million).

## Property, plant & equipment

In the first half of the business year  $2020 \in 0.4$  million were invested in property, plant & equipment (previous year:  $\in 0.1$  million). During the same period scheduled depreciation amounted to  $\in 1.4$  million (previous year:  $\in 1.4$  million). The scheduled depreciation for the quarter under review amounted to  $\in 0.8$  million (previous year:  $\in 0.8$  million).

# Breakdown of sales

The following matrix splits sales in the period under review according to the individual segments and selected categories.

	Solar	Life Science	Semiconductor	Total
January 1 to June 30, 2020	in million €	in million €	in million €	in million €
Sales by country of destination	,			
Germany	3.0	0.2	0.7	3.9
Rest of Europe	0.1	3.0	0.1	3.2
North and South America	0.3	2.7	0.3	3.3
Asia	3.6	0.9	1.2	5.7
Africa & Australia	0.0	0.1	0.0	0.1
	7.0	6.9	2.3	16.2
Sales by country of origin				
Germany	6.5	3.5	1.5	11.5
Rest of Europe	0.0	0.1	0.0	0.1
North and South America	0.2	2.3	0.7	3.2
Asia	0.3	1.0	0.1	1.4
Africa & Australia	0.0	0.0	0.0	0.0
	7.0	6.9	2.3	16.2
Products and services				
Production equipment	5.8	2.3	1.7	9.8
Service and replacement parts	1.2	4.6	0.6	6.4
	7.0	6.9	2.3	16.2
Time of sales realization				
Sales realization extending one period	5.6	2.3	1.6	9.5
Sales realization for one period	1.4	4.6	0.7	6.7
	7.0	6.9	2.3	16.2

	Solar	Life Science	Semiconductor	Total
January 1 to June 30, 2019	in million €	in million €	in million €	in million €
Sales by country of destination				
Germany	1.7	0.5	0.0	2.2
Rest of Europe	1.6	2.8	1.0	5.4
North and South America	2.8	4.0	0.3	7.1
Asia	22.9	5.4	1.0	29.3
Africa & Australia	0.0	0.1	0.0	0.1
	29.0	12.8	2.3	44.1
Sales by country of origin				
Germany	27.7	8.6	1.1	37.4
Rest of Europe	0.0	0.1	0.1	0.2
North and South America	1.3	3.7	1.0	6.0
Asia	0.0	0.4	0.1	0.5
Africa & Australia	0.0	0.0	0.0	0.0
	29.0	12.8	2.3	44.1
Products and services				
Production equipment	27.1	7.3	1.0	35.4
Service and replacement parts	1.9	5.5	1.3	8.7
	29.0	12.8	2.3	44.1
Time of sales realization				
Sales realization extending one period	27.1	7.0	0.8	35.4
Sales realization for one period	1.9	5.8	1.5	8.7
	29.0	12.8	2.3	44.1

# Sales reductions and individual selling expenses

The sales reductions include cash discounts granted. The individual selling expenses are mainly composed of expenses for packaging, freight and commissions.

#### General administrative expenses

The administrative expenses include the expenses for the management, personnel expenses, the finance and accounting departments as well as the corresponding expenses for rent and company cars. Furthermore, they include the ongoing IT expenses, legal and consulting fees, expenses for investor relations activities, the ordinary Annual General Meeting as well as the annual financial statements.

## Research and development expenses

In addition to the research and non-capitalizable development expenses, the research and development expenses in the first half of 2020 also include the scheduled amortization of capitalized development expenses in the amount of  $\in$  0.9 million (previous year:  $\in$  0.6 million). During the second quarter of 2020, write-offs on capitalized development expenses amounted to  $\in$  0.5 million (previous year:  $\in$  0.3 million).

#### **Financial instruments**

The following table displays the book values and the corresponding time values of all financial instruments included in the consolidated financial statement by class.

		Book value		Attributable time value	
	Valuation method	June 30, 2020 in million €	Dec. 31, 2019 in million €	June 30, 2020 in million €	Dec. 31, 2019 in million €
Financial assets				-	
Cash and cash equivalents **	AC	6.4	14.8	6.4	14.8
Restricted financial assets **	AC	4.1	4.4	4.1	4.4
Derivatives					
Hedging derivates **	HD	-	_	-	_
Accounts receivable **	AC	2.9	5.8	2.9	5.8
Other receivables	AC	5.3	6.4	5.3	6.4
Financial liabilities					
Bond *	AC	12.8	12.8	11.6	12.8
Liabilities from the issuance of loans	AC	4.0	4.0	4.0	4.0
Derivatives					
Hedging derivates **	HD	-	_	-	_
Accounts payable **	AC	5.2	8.3	5.2	8.3
Other liabilities	AC	6.7	9.1	6.7	9.1
Total	AC	47.4	65.6	46.2	65.6
Total	HD	0.0	0.0	0.0	0.0

<sup>\*</sup> The valuation at attributable time value was accounted for as Level 1 attributable time value, based on the input factors of the applied valuation procedures.

#### Annotations to the abbreviations:

AC: Amortized Cost (financial assets or liabilities valued at net acquisition costs)

HD: Hedging Derivative

<sup>\*\*</sup> The valuations at attributable time value were accounted for as Level 2 attributable time values, based on the input factors of the applied valuation procedures.

Cash and cash equivalents, restricted funds as well as accounts payable regularly have a short term to maturity. The balance sheet values are approximately the attributable time values. The same holds true for short-term accounts receivables and other assets.

The attributable time values of long-term accounts receivable corresponds to the present values corresponding to the payments of the assets subject to the relevant interest rate parameters.

As a valuation price for the foreign exchange forwards concluded, for cash rates the ECB reference prices and for forward rates the relevant forward rate prices of the relevant commercial banks are used.

The attributable time value of the exchange-listed bonds corresponds to the exchange price at the balance sheet date plus the book value of the accrued interest liabilities as of the balance sheet date.

The attributable time value of the liabilities from the issuance of loans corresponds to the redemption amount of the loans at the balance sheet date.

The maximum credit risk is reflected by the book values of the financial assets and liabilities.

## Financial income and financing expenses

The interest income/ expenses are composed as follows:

	June 30,2020 in million €	June 30, 2019 in million €
Financing expenses from issuance of bond	-0.4	-0.4
Interest expenses from the discounting of pension provisions	-0.1	-0.1
Other financing expenses	-0.6	-0.6
	-1.1	-1.1

# Earnings per share

For the calculation of the undiluted earnings per share the earnings attributable to the bearers of the common shares of the parent company are divided by the weighted average number of shares in circulation during the period under review.

For the calculation of the diluted earnings per share the earnings attributable to the bearers of the common shares of the parent company are divided by the weighted average number of common shares in circulation during the period under review in addition to the weighted average number of shares resulting from the conversion of all potential common shares with dilution effect into common shares. Dilution effects were neither recorded in the quarter under review nor in the same period one year ago. In the period from the balance sheet date until the drawing up of the consolidated financial statements there were no transactions of common shares or potential common shares.

## Financing liabilities from issuance of bond

The secured bond (ISIN DE000A2AA5H5) with a volume of € 12.0 million was issued in July 2016 and has a term to maturity of five years as well as an annually increasing coupon. The initial interest rate amounted to 3.0 %. It increases annually, subject to an early repayment by the company, in steps to 6.0 %, 7.0 %, 8.0 % up to 10.0% p.a.. The effective interest rate amounts to 6.70 % p.a.. Cash, receivables, inventories, fixed assets and intangible assets of the SINGULUS TECHNOLOGIES AG serve primarily as collateral for the new bond.

#### Liabilities from the issuance of loans

In February 2019 the company has taken a loan in the amount of  $\in$  4.0 million from a shareholder and bondholder. The original term of the loans was one year. In the meantime the term has been prolonged by an additional year. The loan is in context of the bond provisions Art. 8 (a) (iv) in connection with Art. 3 (e). Accordingly, the company is authorized to enter financial liabilities in form of a loan of up to  $\in$  4.0 million. The bond collateral primarily serves to secure the loan. The effective interest rate amounts to 9.97 % per year.

#### **Events after the Balance Sheet Date**

After the balance sheet date the company received material payments with a volume of € 14.2 million from the machine activities.

#### Shareholdings of Board members

As of the balance sheet date, the members of the Executive and Supervisory Boards of the SINGULUS TECHNOLOGIES AG held the following number of shares, convertible bonds and stock options: As of June 30, 2020 the Chairman of the Supervisory Board, Dr.-Ing. Wolfhard Leichnitz, held 245 shares of the company overall, the Supervisory Board member Dr. Silke Landwehrmann held 2,000 shares of the company as of June 30, 2020.

Furthermore, at the end of the quarter under review members of the Executive Board held the following number of shares of the SINGULUS TECHNOLOGIES AG:

	June 30, 2020 shares
DrIng. Stefan Rinck, CEO	122
Markus Ehret, CFO	43
Dr. rer. nat. Christian Strahberger, COO	2,000
	2,165

# Affirmation of the Legal Representatives

"We assert to our best knowledge and belief that pursuant to the applicable accounting principles for the interim financial reporting the consolidated financial statements reflect the true situation of the asset, financial and earnings situation of the Group. The consolidated interim status report depicts the course of business including the financial results and the situation of the Group in a way reflecting the true situation and describing the material opportunities and risks of the foreseeable developments of the Group during the remainder of the business year."

Kahl am Main, August 2020

The Executive Board

# At a Glance -

# Consolidated Key Figures for the 2<sup>nd</sup> Quarter

		2019	2020
Revenue (gross)	million €	23.3	5.3
Order intake	million €	15.3	3.3
EBIT	million €	0.5	-8.5
EBITDA	million €	1.6	-7.2
Earnings before taxes	million €	0.0	-9.0
Profit/loss for the period	million €	-0.2	-8.4
Research & development expenditures	million €	3.2	2.9

# Consolidated Key Figures 1st Half Year

		2019	2020
Revenue (gross)	million €	44.1	16.2
Order intake	million €	27.1	66.9
Order backlog (06/30)	million €	49.0	77.0
EBIT	million €	1.6	-14.3
EBITDA	million €	3.6	-12.0
Earnings before taxes	million €	0.5	-15.4
Profit/loss for the period	million €	0.0	-15.0
Operating cash flow	million €	-5.8	-4.7
Shareholders' equity	million €	19.8	-7.9
Balance sheet total	million €	99.6	72.4
Research & development expenditures	million €	6.2	5.6
Employees (06/30)		360	354
Weighted number of shares, basic		8,896,527	8,896,527
Earnings per share, basic	€	0.00	-1.69

# Corporate Calendar 2020

August 2020	
Half Year Report 2020	08/12
August 2020	
Bankhaus Lampe German Virtual Summer Conference	08/18 to 08/19
September 2020	
Fall Conference 1on1 Summit	09/01 to 09/03
November 2020	
Interim Report Q3/2020	11/13
November 2020	
Deutsches Eigenkapitalforum Online	11/16 to 11/18

# **Future-oriented Statements** and Forecasts

This report contains future-oriented statements based on the current expectations, assessments and forecasts of the Executive Board as well as on the currently available information to them. Known as well as unknown risks, uncertainties and impacts could cause the actual results, the financial situation or the development to differ from the statements made in this report. We assume no obligation to update the futureoriented statements made in this report.



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