

FOR: BE SEMICONDUCTOR INDUSTRIES N.V.
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The Netherlands

PRESS RELEASE

BE Semiconductor Industries Announces a “Block Trade” under the Share Repurchase Program

Duiven, the Netherlands, September 20, 2007, BE Semiconductor Industries N.V. ("the Company" or "Besi") (Euronext: BESI), a leading manufacturer of assembly equipment for the semiconductor industry, announces that it has reached agreement with a shareholder about the purchase of 581,296 shares. The price of the shares to be purchased will be EUR 4.35 per share. The purchase of the shares will contribute to the Share Repurchase Program announced in the press release of September 3, 2007.

About BE Semiconductor Industries N.V.

BE Semiconductor Industries N.V. designs, develops, manufactures, markets and services die sorting, flip chip and multi-chip die bonding, packaging and plating equipment for the semiconductor industry's assembly operations. Its customers consist primarily of leading U.S., European, Asian, Korean and Japanese semiconductor manufacturers and subcontractors which utilize its products for both array connect and conventional leadframe manufacturing processes. For more information about Besi, please visit our website at www.besi.com.

Caution Concerning Forward Looking Statements

Statements in this press release regarding Besi's intention to repurchase Ordinary Shares from time to time under the stock repurchase program, the intended use of any repurchased shares and the source of funding are forward-looking statements. There are a number of important factors that could cause actual events to differ materially from those suggested or indicated by such forward-looking statements. These include, among others, the market price of Besi's stock prevailing from time to time, the nature of other investment opportunities presented to the Company from time to time, the Company's cash flows from operations, general economic conditions, and other factors identified in the Company's Annual Report filed with the AFM.

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