



Scientific Instruments Group

Pursuing new customer applications in high-technology manufacturing and pharmaceuticals



Expanding Beyond the Life Sciences, to Support High-Technology Industrial Research and Manufacturing

With the introduction of the business group system in April 2000, this division was reorganized as the Scientific Instruments Group in order to conduct its operations as an independent business unit. Although the majority of customers of this Group used to come from the life sciences, its business in the industrial area is now rapidly expanding. Our dry vacuum pumps, which use no contaminating oil, are attracting particular attention. In semiconductor and other high-technology manufacturing, super-clean vacuum pumps are required in various processes. Because dry vacuum pumps are ordered in scores of units at a time, their sales are expected to make a great contribution to earnings growth.

In the field of life science, meanwhile, both the Government and private circles have been actively investing in genome analysis and using Hitachi Koki developed high-performance centrifuges, such as the world's first plasmid

DNA extraction system. Post-genome research is now moving into the area of protein structure and function (genes are the software for building proteins). We anticipate increased demand for our advanced line of ultracentrifuges for use in protein extraction.

Dry Vacuum Pumps Usher in a New Level of Semiconductor Miniaturization

Scroll-type and turbo-type dry vacuum pumps by Hitachi Koki use no oil, which is a potential contaminate of the ultra-precise semiconductor and other high-technology manufacturing processes. As they can produce vacuums as high as 10^{-2} Pa, they make possible the maintenance of very high-level clean-room environments of the type required for leading-edge processing.

World's Foremost Centrifuge Manufacturer

Over the last half century, Hitachi Koki has developed a variety of outstanding products for medical and scientific use, including blood and cell separation refrigerated centrifuges and ultracentrifuges designed for vaccine manufacturing. Today, Hitachi Koki is the world's top manufacturer in the field of centrifuges.

Seeking Further Development

Sales of the scroll- and turbo-type dry vacuum pumps are expected to increase, thanks to the growth of semiconductor and information technology-related production. Influenza vaccines are again seeing widespread medical support, and their production is being increased. Shipment of centrifuges dedicated for this purpose can be expected to increase in the future. From now on, Hitachi Koki will reinforce its partnerships with other organizations within the Hitachi group in pursuit of key advanced life-science technologies and know-how as we continue to meet ever-rising customer needs.

