



INTRODUCTION

THE COMPANY

VESSEL embarked on the development of industrial bits in 1954. Since then, we have constantly put our efforts into improving our manufacturing processes, to produce an ever-improving line of industrial bits. Our motto is : "FAST PRODUCTION & DELIVERY of EXCELLENT BITS, made of HIGH GRADE MATERIALS, with SUPERIOR TIP CONFIGURATIONS through UNSURPASSED HEAT TREATMENT." Effective, secure fastening of screws is indispensable in improved work efficiency and increased reliability in mass production assembly factories. Good bits play a vital role in improved product quality and cost reduction. We offer a wide range of high quality industrial bits with the quickest possible delivery. The accurately machined tip configuration of VESSEL bits will match any screw heads perfectly. Our materials and heat treatment methods are carefully selected for the greatest durability. We offer a wide selection of products, and a consultation service to help you select and use the appropriate VESSEL bits. We assure reliability with our computer-assisted product control. VESSEL bits can be an integral part of your fastening application system.

MATERIALS

VESSEL knows that the quality of our bits first upon correct selection of materials. For this reason, we are developing a variety of bit materials to meet diverse needs. We blend elements such as Carbon, Silicon, Magnesium, Nickel, Chrome, Molybdenum and Vanadium into our steels, and drawing forth their inherent characteristics through our long experience with heat treatment processes. Therefore, the tips of our highly durable bits are wear and shock resistant, as well as functionally well designed.

ACCURACY

Accuracy of size and shape are essential in the manufacture of precision bits. Therefore our bit materials are stocked as bars, before being machined or shaped. This reduces the possibility of changes due to heat treatment or stress in the manufacturing process. Not only shaping accuracy but also uniform quality is exceptionally high. Even an excellent bit would still be useless if it did not fit the screw head. Therefore our pursuit of accuracy begins with our consultations with the manufacturing engineers at our customer's factories. We work with our customers, because we know that we must manufacture bits which fit the exact purpose for which they will be used.

QUALITY CONTROL

All of our bits are manufactured under our stringent quality control system in order to produce the most accurate and durable industrial bits available. The processing conditions of each production lot are recorded in detail. This record of the heat treatment process for each run is filed for 10 years, to be used to locate any source of possible problems, and to help us improve the process. The products from each run are sample-tested before shipment. They are subjected to various tests for dimensions, hardness and torsion torque. Only bits which passed our strict criteria are delivered to our customers.

VESSEL GUARANTEE

All VESSEL products are precision engineering to various standards, and the products are in warranty against either defective materials and/or workmanship when used for the purpose for which they were designed. VESSEL ensures that every product supplied is manufactured and tested to the relevant quality and production standards such as JIS and DIN requirements.