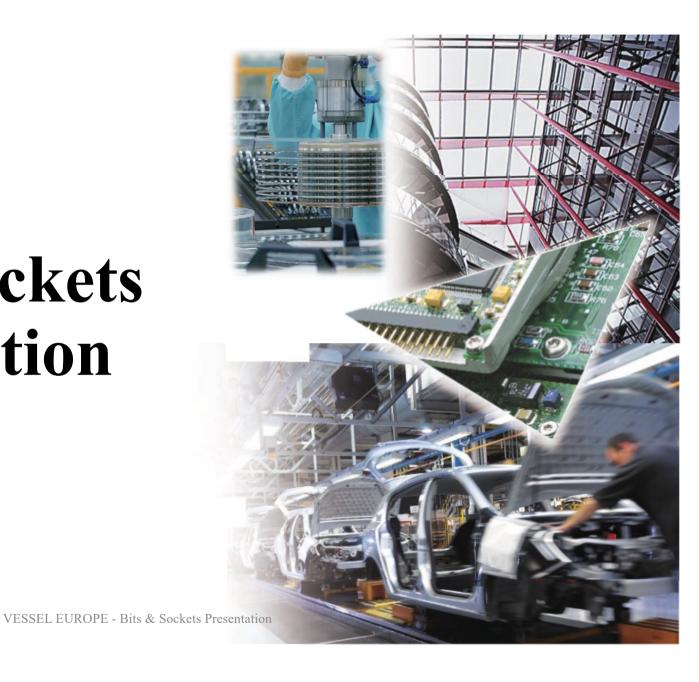


# Bits & Sockets presentation



### **Bits presentation Summary**

- ❖ Introduction : History
- \* Bits Technology:
  - Configuration
  - Material
  - Heat treatment
  - Screw fitting
- Engineering Facilities
- ❖ Special Bits : Special inquiry form
- Manufacturing Capacities
- **❖** Logistics capacities
- **SKU**
- Applications



### Introduction

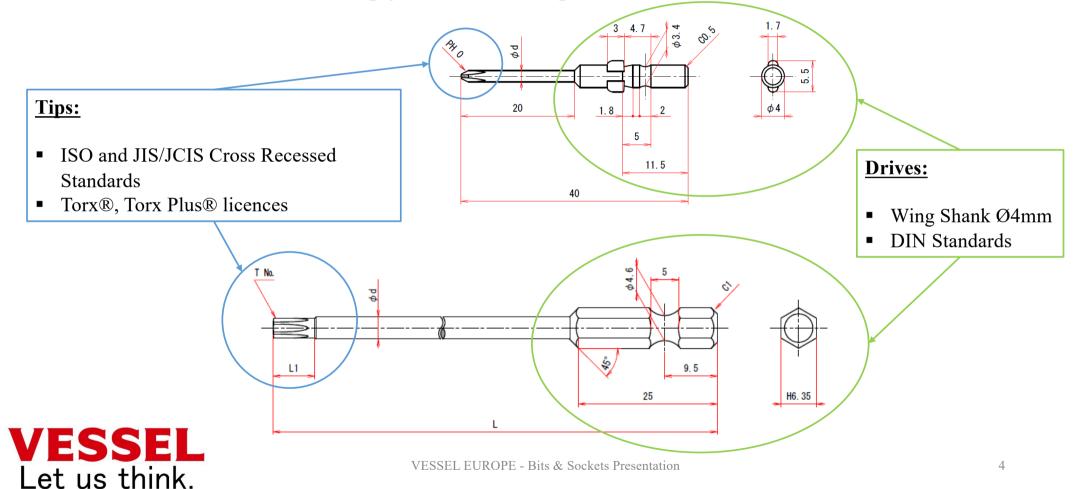
Since 1916, **VESSEL** has been a Japanese leading manufacturing company of screwdrivers and bits.



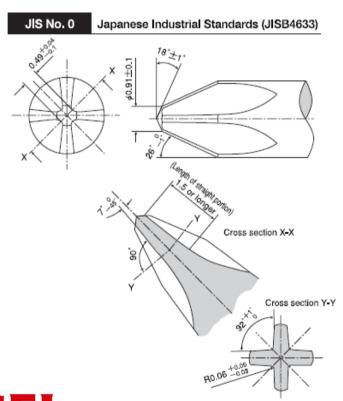


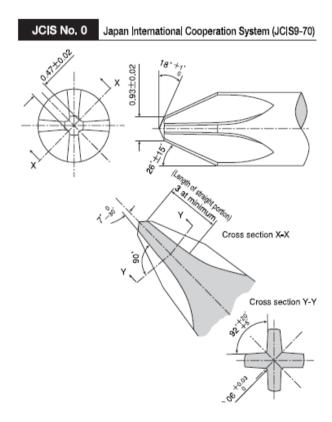


# Bits Technology: Configuration



# Bits Technology: Differences between two standards







# Bits Technology: Material

### ⇒ High Grade Materials

- Usage of each Metal Characteristics:
  - Carbon Silicon •
  - Nickel Chrome Vanadium
  - Molybdenum And Many More!



Raw Materials (Bits)



Magnesium

# Bits Technology: Heat treatment

- **Best Heat Treatment** 
  - Hardness Large Role: **Durability** of the product
  - Wear & Shock Resistance

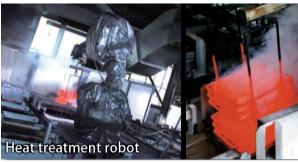


HEAT TREATMENT CLASS	SCREWS TO BE FASTENED	TYPE OF FIELD
X HIGHEST HARDNESS	PRECISION SCREWS, AUTOMATIC MOUNTING SCREWS, CONNECTING SCREWS	ASSEMBLY OF PRECISE EQUIPMENT, AUTOMATIC MACHINE SCREWING OF LIGHT ELECTRICAL APPLIANCE, HOUSING
H HIGH HARDNESS	WOOD SCREWS, MACHINE SCREWS, SELF-TAPPING SCREWS, SELF-DRILLING SCREWS	ASSEMBLY OF LIGHT ELECTRICAL APPLIANCE & AUDIO EQUIPMENT, BUILDING & WOODWORKING
GSTANDARD HARDNESS	TAPPING SCREWS MACHINE SCREWS	ASSEMBLY OF CAR, MACHINE PARTS & WINDOW DOOR SASHES

**VESSEL Standard** 

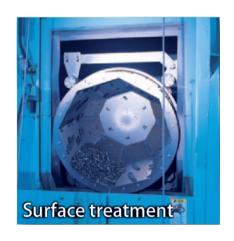
Unsurpassed Competitive Advantage in VESSEL Bits & Sockets Range







# Bits Technology: Surface treatment

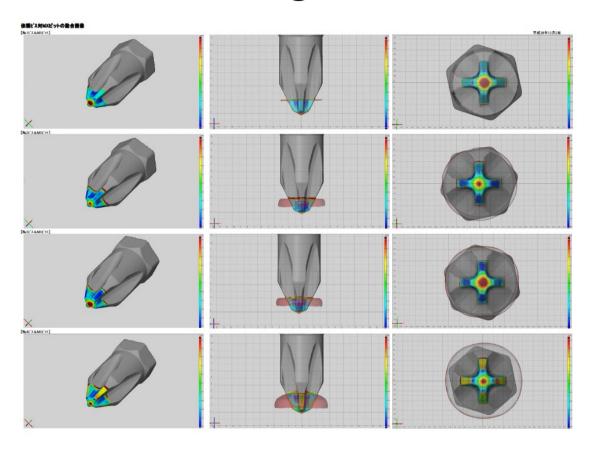


### ⇒ Surface Treatment

- Eliminate impurities from milling process
- Shot-Blast finish as Standard ("shiny metallic color")
- Oil Bath preventing product corrosion



# Bits Technology: Screw Fitting



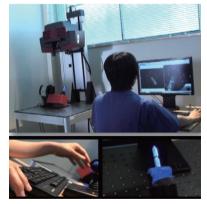


# Engineering expertise and testing facilities











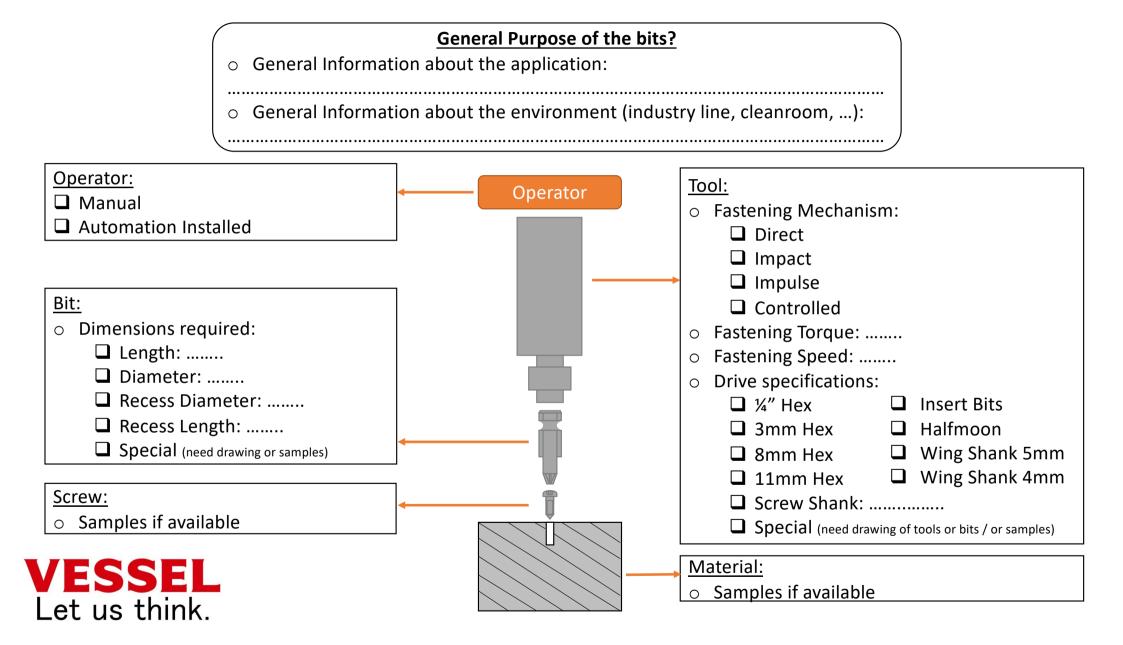




# Special Bit Inquiries

All the required information to manufacture your suitable solution





# Manufacturing Capacities





24-hour unmanned operation with manufacturing systems for cutting-edge technology

#### ISO 9001 Certification

#### ISO 14001 Certification







- "Milling" process (Vs Forged)
- Continuous investments in best cutting machines
- In-House development
- Years of know-How in precision technologies



# Logistics capacities

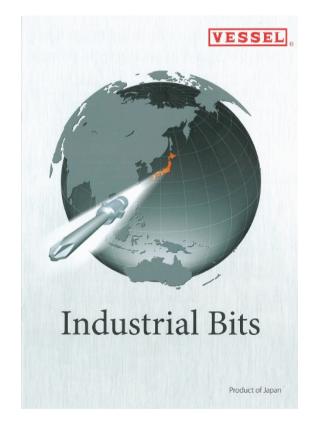








### SKU



- Phillips
- **₩** PZ
- Plain Slotted
- Torx ®
- Torx ® (Tamper Proof)
- Torx Plus ®
- Hex
- O Hex Socket
- Square
- Tri-Wings

- Wing-Shank
- Halfmoon
- Insert Bits
- 1/4" Hex
- 11mm Hex
- 8mm Hex
- 3mm Hex
- Screw Shank









# **Applications**

### $\Rightarrow$ Precision Bits:

- Computers
  - Acoustic Equipment
- Optical Equipment
- Office Automation (OA) Equipment

















# **Applications**

### $\Rightarrow$ **Power Bits**:

• Construction

- Wood Work
- Other Industries

- Automotive Industry
- DIY







