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JB

**PROFESSIONAL STANDARD OF THE PEOPLE'S
REPUBLIC OF CHINA**

中华人民共和国机械行业标准

JB/T 5000.8-2007

Replace JB/T 5000.8-1998

**Heavy mechanical general techniques and standards
—Part 8: Forging**

**重型机械通用技术条件
第 8 部分：锻件**

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Foreword

JB/T 5000 《Heavy mechanical general techniques and standards》 divided into 15 parts:

- ___ Part one : Product Inspection
- ___ Part two: Oxygen cutting workpiece
- ___ Part three: Weldment
- ___ Part four: Iron casting
- ___ Part five: Cast nonferrous metal
- ___ Part six: Cast steel
- ___ Part seven: Cast Steel repair welding
- ___ Part eight: Forging
- ___ Part nine: Cutting workpiece
- ___ Part ten: Assembly
- ___ Part eleven: Tubing
- ___ Part twelve: Painting
- ___ Part thirteen: Packing
- ___ Part fourteen: Cast steel nondestructive examination
- ___ Part fifteen: Forging steel nondestructive examination

This part is JB/T 5000's part eight.

This part is instead of JB/T 5000.8-1998 《Heavy mechanical general techniques and standards Forging》

This part compare to the JB/T 5000.2-1998,the main changes are as follow:

- ___ Added the table 3 instruction
- ___ Added the 5.2.2.3 that when the forging thickness is larger than 200mm,it's allowed you to cutting the sample by abreast.When the forging's heighten parts is larger than 200mm, it's allowed you to cutting the sample by abreast.
- ___ Added the 5.2.2.4 that when the forging's heighten parts is larger than 200mm, it's allowed you to cutting the sample at the 1/2 position by abreast.When the forging's wall thickness is larger than 200mm,it's allowed you to cutting the sample at the 1/2 position by abreast.
- ___ Added the 5.2.2.5 ,5.2.3.3
- ___ Table 4 is delect the regulation of the basic open-hearth steel and added the regulation of the electric steel ingot's specification and the forging ratio.

This part's appendix A is informative annex.

This part is offered by the China Machinery Industry Association.

This part is centralized management by the engineering industry metallurgical equipment technical committee for standardization.

This part's draft out unit:Heavy mechanical group Co.,ltd I

This part's take part in draft out unit: Heavy mechanical group Co.,ltd II

This part's draftsman: Feng Duo,Xiquan Zhao,Shiyu Liu

This part's previous edition:

—JB/T 5000.8—1998

Heavy mechanical general techniques and standards

---Part 8:Forging

1 Scope

This part JB/T 5000 specify the technical requirement,inspection rules,testing method, certification of fitness and the logo etc of the general service large forgings.

This part is applicable to the water (oil) press and free forging hammer's carbon steel and alloy constructional steel large forging's order,manufacture and checking.

2 Normative Reference

Through the quoted by JB/T 5000 , Following documents' items are become to the items of this parts.Any quoted documents if it is dated,the following modify notification (not including the errata contents) or modify edition are not apply to this part.But,the agreement which is according to this part can use this parts'latest edition. If it's not dated,it's latest edition can apply to this part.

GB/T 223 (all parts) Steel and alloy chemical method of analysis

GB/T 226 The steel's macrostructure and deficiency acid etching testing method (GB/T 226—1991, neq ISO 4969:1980)

GB/T 228 Metal stretch testing method [GB/T 228—2002,eqv ISO 6892:1998(E)]

GB/T 229 Metal charpy notch impact testing method (GB/T 229—1994, eqv ISO 148:1983)

GB/T 231.1 Metal brinell hardness testing part one: testing method [GB/T 231.1—2002,eqv ISO 6506-1:1999(E)]

GB/T 1979 Structural steel's macrostructure deficiency grade figure

GB/T 4338 Metal material Tensile testing at elevated temperature (GB/T 4338—1995, eqv ISO 738:1989)

GB/T 6394 Metal average grain size's testing method (GB/t 6394 — 2002,ASTM E 112:1996,MOD)

GB/T 10561 non-metallic inclusion micro assessment method in the steel.(GB/T 10561—1989,eqv ISO 4967:1979)

JB/T 5000.15 Heavy mechanical general techniques and standards Part fifteen: Forging steel nondestructive examination

3 Order requirement

3.1 The demander should noted the forging standard,forging groups,steel grade,relative technology requirement,testing items and other additional instructions in the order contract or the order agreement.

3.2 The demander must supply the order drawing.

3.3 If the demander have the other requirements,it's must be decided by both sides.

4 Technology requirement

4.1 Manufacturing process

4.1.1 Smelting

The smelting method is decided by the supplier unless have the special requirements.

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