ABSTRACT

H-BEAM HAVING PROTRUSIONS, AND
MANUFACTURING METHOD FOR SAME

Disclosed is an H-beam having protrusions, together with a manufacturing method for the same, which can improve toughness while securing tensile strength stably. An H-beam having protrusions, includes: a steel composition containing C: 0.05 mass% to 0.20 mass%, Si: 0.05 mass% to 0.60 mass%, Mn: 1.20 mass% to 1.70 mass%, P: 0.035 mass% or less, S: 0.035 mass% or less, V: 0.040 mass% to 0.200 mass%, and N: 0.0040 mass% to 0.0200 mass%, within a range satisfying the following expression with the balance being Fe and inevitable impurities: $0.05 \leq [\%V] \times [N\%]/[\%S] \leq 0.50$; a tensile strength of 490 MPa or more; a yield strength of 355 MPa or more; and an impact absorbed energy at 0 °C, vE_0, of 27 J or more.

No suitable figure