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PRESS NEWS

Hot forming of quenched and tempered steel – an important part of Deforms future

At Deform, great efforts are made in developing hot forming of quenched and tempered steel type Weldox, Hardox and Armox. When hot forming we heat the steel up to a well defined temperature within the normalisation area, after which we press form in special press tools to the specified shape and finally we are quenching the steel back to the original mechanical properties. One condition to succeed is that you are most competent in the forming technique as well as the quenching and tempering process.

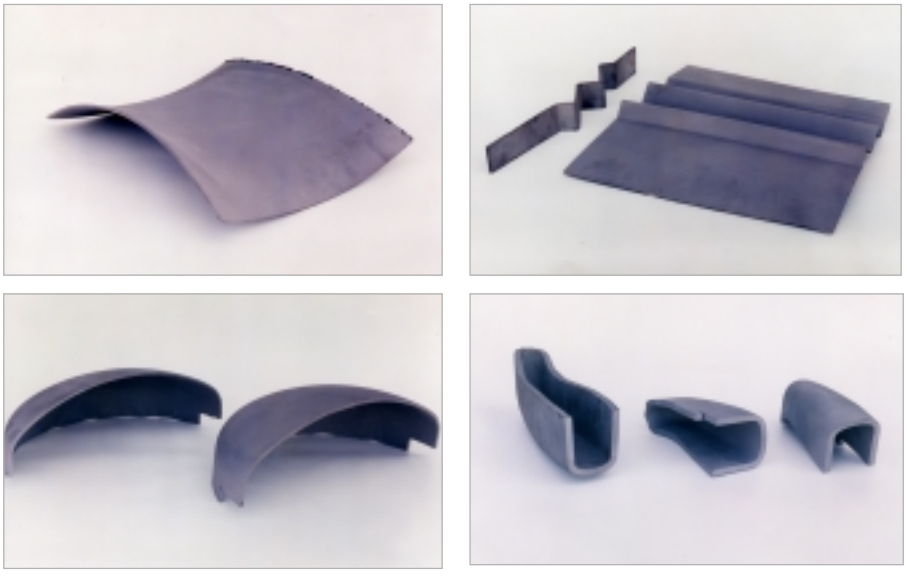
Two examples of protection plates in thicknesses 14,5 and 35 mm, delivered in over 1000 individuals.

Deform has a long practical experience in the process with a reference list of approximately 1500 quenched and tempered products in several different suppliers steel grades.

To guarantee that each product maintains the correct material property according to the steel specification a 100 % testing is made before delivery.

Deform has now taken further steps by carrying out a number of tests on the level of hardness 600 HB, that is 100 HB harder than we so far have worked with. After these tests we can state that also on this level of hardness we manage radiuses that in cold condition are impossible to produce.

Through this experience we know what we can produce and we see a great potential in the method for other products. We can offer competitive solutions not possible before, we can manufacture products in one piece that earlier had to be welded together from flat plate parts. Through this we can save costs and at the same time produce shapes previously not possible to produce in one piece. We are very proud over this know-how and expect hot forming of quenched and tempered steel to be an important part of Deforms future.



Samples of details in armour steel type Secure or Armox. Hardness level 600HB, thicknesses 4-8 mm with radiuses from 1,5 mm.