

## SPECIAL FASTENERS



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Our company, thanks to our collaboration with leading national and international manufacturers, can supply a complete range of standardised screws and bolts for general use, manufactured according to various standards (from DIN and UNI standards, formally no longer in force but still relevant in our sector, to the recent ISO standards).

Over the years, however, we have specialised in the supply of special screws and bolts, made according to customer drawings and specifications, including those peculiar to each sector (e.g. FIAT Tables, General Electric's ITN standards) or according to sector-specific standards (e.g. ASME standards), thus enabling us to offer our customers a practically unlimited range.

### COLD STAMPING EXECUTION

For years we have been working with several production units, which are modernly equipped with multi-station machines capable of producing a very wide range of special screws and bolts. Thanks to high productivity, large lots of screws and bolts are produced in just a few hours, guaranteeing economic prices while maintaining a high level of quality.

The variants are vast: head shape, type of wrench/impression, threads (metric, self-tapping, for plastic, chipboard, self-forming, etc.) materials, even with subsequent heat treatments (tempering, case-hardening, etc.) and galvanic coatings.

For more delicate applications in the automotive and household appliance sectors, we can perform automatic selections for different characteristics, guaranteeing a quality level down to a few PPM. Pilot ends or captive washers allow customers to achieve substantial savings on assembly lines.

*Large minimum production lots can be delivered on schedule on request. can be delivered on schedule on request.*



## **HOT STAMPING EXECUTION**

Our production units in this sector either produce for us screws of larger diameters, which are impossible to do with cold pressing, or produce small batches of special screws, even of smaller diameters.

Special materials, including exotic alloys, are processed with this treatment, subsequently having all the appropriate heat treatments for the grade and any required coatings/treatments or pickling and passivation carried out for an optimum finish.

## **FORGING EXECUTION**

Large screws, which in the oil & gas sector are mostly used in drilling equipment and well heads (Bonnet Bolt), can be made through several steps, starting with the forging of semi-finished products. Using certified external laboratories, all mechanical tests on 'sacrificial' parts and non-destructive testing prescribed by the stringent industry specifications guarantee the highest quality level.

## **TURNING/MILLING EXECUTION**

With this machining, our production units can produce even very small, almost handcrafted batches of parts to drawing, with special characteristics. They can supply parts with o-ring grooves, screws with ground shanks, etc.

