

## TC 2020 3D

SOFTWARE WITH IDENTICAL FEATURES OF THE MODEL TC 2020 AND WITH THE FOLLOWING FEATURES

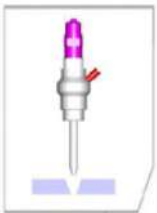
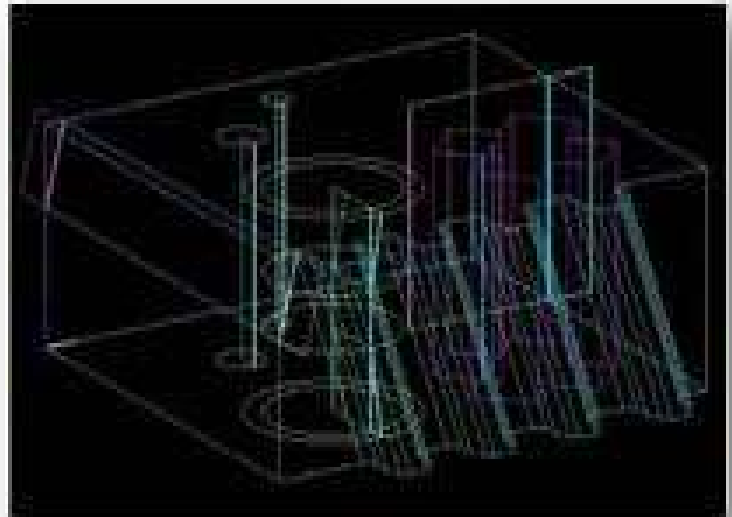
- USE OF INTELLIGENT KERF COMPENSATION
- BEVELING MANAGEMENT
- PIPES WORKING 3/5 AXIS MANAGEMENT
- SPECIAL SYSTEM MANAGEMENT: MULTIHEAD WITH AUTOMATIC DISTANCE ADJUSTMENT (NO. 2, 3, 5, 10 HEADS)

## 3D MODULE AND SPECIAL MACHINES

THE OPTIONAL MODULE TC2020 3D IS A SOFTWARE FOR SOLID SHAPE DRAWING THAT ALLOWS THE CREATION OF 3D SHAPES IN AN INTUITIVE AND SIMPLE MANNER, BY WORKING ON THE UPPER AND LOWER PROFILES OR THE CUTTING ANGLE.

IT ALSO MANAGES THE MULTI-HEAD CUTTING, BY SELECTING THE NUMBER OF HEADS AND THE DISTANCE BETWEEN THEM IN ORDER TO MINIMIZE THE CUTTING TIME AND OPTIMIZE THE PLATE USE. IT CAN ALSO GENERATE ISO PROGRAMS FOR 3- AND 5-AXIS PIPE

# TC2020™ 3D IKC™



Lavorazione convenzionale a tre assi



THE CMS 5-AXIS HEAD IS EQUIPPED WITH THE **IKC TECHNOLOGY**, WHICH DYNAMICALLY CONTROLS THE COMPLEX 5-AXIS HEAD IN ORDER TO REDUCE THE TAPER, BY WORKING ON THE CUTTING PARAMETERS. ITS MANAGEMENT IS FULLY SOFTWARE CONTROLLED AND DOES NOT REQUIRE ANY SPECIFIC TECHNICAL KNOWLEDGE..

THE ISSUE. AS THE HYDRO-ABRASIVE JET IS NOT A RIGID TOOL, IT LOSES EFFICIENCY WHILE CUTTING. THIS LOSS OF EFFICIENCY LEADS TO A NARROWING OF THE KERF, SO THAT THE JETS RESULTS WIDER AND MORE EFFICIENT AT THE TOP AND WEAKER AT THE BOTTOM, THUS GENERATING CONICITY AND EVENTUALLY A LOSS OF DIMENSIONAL TOLERANCES OF THE FINISHED PART.

THE SOLUTION: IN THE MOST COMMON APPLICATIONS THE OBJECTIVE IS A MEDIUM-QUALITY FINISH, BUT EVEN THOUGH THE SURFACE MAY SHOW A LOW ROUGHNESS, THE TAPER COULD STILL BE SIGNIFICANT. WITH A 3-AXIS HEAD, IN ORDER TO REDUCE TAPER THE ONLY OPTION IS TO MAKE CUTS WITH THE HIGHEST FINISHING QUALITY, BY REDUCING THE FEED RATES. THIS RESULTS IN HIGHER CUTTING TIMES AND A TAPER NOT LESS THAN +/- 0.1 MM.

THE INNOVATIVE IKC FEATURE REDUCES THE TAPER WHILE GETTING THE REQUIRED EDGE FINISH AND DOES SO WITHOUT SLOWING THE CUTTING DOWN.