|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **(DFA) Design for Assembly** | | | | |
| Individual Assembly Evaluation for:Irwin post 2007 Clamp | | | Organization Name : Example | |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | **OVERALL ASSEMBLY** |  | | | | 1 | Overall part count minimized | | |  | | 2 | Minimum use of separate fasteners | | |  | | 3 | Base part with fixturing features (Locating surfaces and holes) | | |  | | 4 | Repositioning required during assembly sequence | | |  | | 5 | Assembly sequence efficiency | | |  | |  | **PART RETRIEVAL** |  | | | | 6 | Characteristics that complicate handling (tangling, nesting, flexibility) have been avoided | | |  | | 7 | Parts have been designed for a specific feed approach (bulk, strip, magazine) | | |  | |  | **PART HANDLING** |  | | | | 8 | Parts with end-to-end symmetry | | |  | | 9 | Parts with symmetry about the axis of insertion | | |  | | 10 | Where symmetry is not possible, parts are clearly asymmetric | | |  | |  | **PART MATING** |  | | | | 11 | Straight line motions of assembly | | |  | | 12 | Chamfers and features that facilitate insertion and self-alignment | | |  | | 13 | Maximum part accessibility | | |  | | Note: Only for comparison of alternate designs of same assembly | | | **TOTAL SCORE** | 58 | | | | | |
| Team member: Fred Smith | Team member: Jason Peterson | Prepared by:Fred Smith | | |
| Team member: Omhi Ubolu | Team member: | Checked by:Prof Chan | | Approved by: |
| *The Mechanical Design Process* Designed by Professor David G. Ullman  Copyright 2018 Form # 21 | | | | |