

Laserhead: <ul style="list-style-type: none"> Weight: approx.15kg small robot/manipulator/balancer 	Scribing head with clamping mechanism <ul style="list-style-type: none"> Weight: ca.50-70kg large robot/manipulator/balancer
Standard always the same product	Special Solution dependent on machine builder
Clamping (contactless) <ul style="list-style-type: none"> Robot: no clamping necessary Manipulator: position clamping Balancer: position clamping No counter position/anvil necessary 	Clamping (high lateral forces) <ul style="list-style-type: none"> Robot: body clamping Manipulator: body clamping Balancer: body clamping Counter position/anvil necessary
Mixed operation (strut dome, seat crossmember...) <ul style="list-style-type: none"> Possible with standard product 	Mixed operation (strut dome, seat crossmember...) <ul style="list-style-type: none"> Possible with complex special solution
Hard materials no problem	Hard materials lead to needle breakage
Depth 0,2mm – 0,3mm can be mapped easily	Depth 0,2mm incl. elevation
PLC software <ul style="list-style-type: none"> Standard, integrated ProfiSafe connection 	SPS software <ul style="list-style-type: none"> Special solution, additional costs
System costs ca. 145.000 €	System costs from 150.000 €
Typeface: perfect	Typeface: OK
Laser protection class 4: system manufacturer achieves class 1 with local laser protection	Not applicable
Marking time max. 15 s (FH7mm DIN1451 17 characters + 2 special characters)	Marking time min. 15 s (FH7mm DIN1451 17 characters + 2 special characters)
Low maintenance no needle breakage check necessary	Tool wear (scribing needle ...) needle breakage check useful
Application: body in white, paint body	Application: body in white, paint body
Frame contract possible (standard product)	Frame contract difficult (special solution)