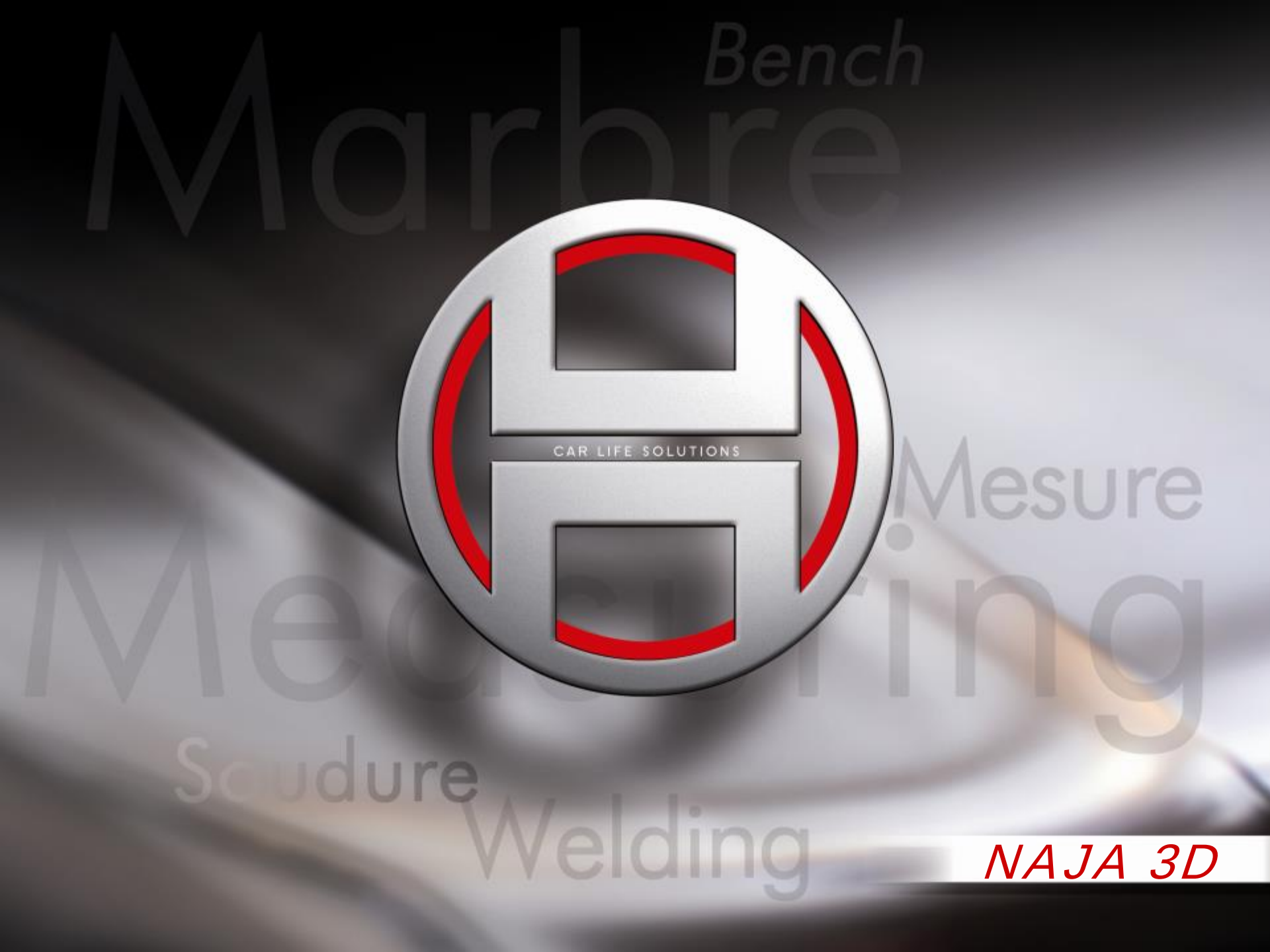

Marbre
Bench
CAR LIFE SOLUTIONS
Mesure
Meulage
Soudure
Welding
NAJA 3D

# NAJA 3D - HISTORY

1997
Introduction Electronic Measuring System


NAJA

2004
2nd Generation

NAJA
EVOLUTION

2011
TECHNOLOGY TRANSFERT
HEXAGON METROLOGY -> CELETTE

2014
New Software =
(INNOVATION AWARD)

NAJA 3D

CELETTE
CAR LIFE SOLUTIONS

# NAJA 3D – HOW TO USE


DIAGNOSTIC = 2 POST LIFT

BASIC REPAIR = FLOOR SYSTEM

SMALL REPAIR = PULLING PLATFORM

STRUCTURAL REPAIR = BENCH

# NAJA 3D – KEY POINTS


+/- 0.7 mm (max) ACCURACY

MEASURING VOLUME = 5M x 2M x 1M

HEXAGON METROLOGY TECHNOLOGY

1 MEASURING HEAD = 5 SENSORS

4 METER  ALUMINIUM BEAM

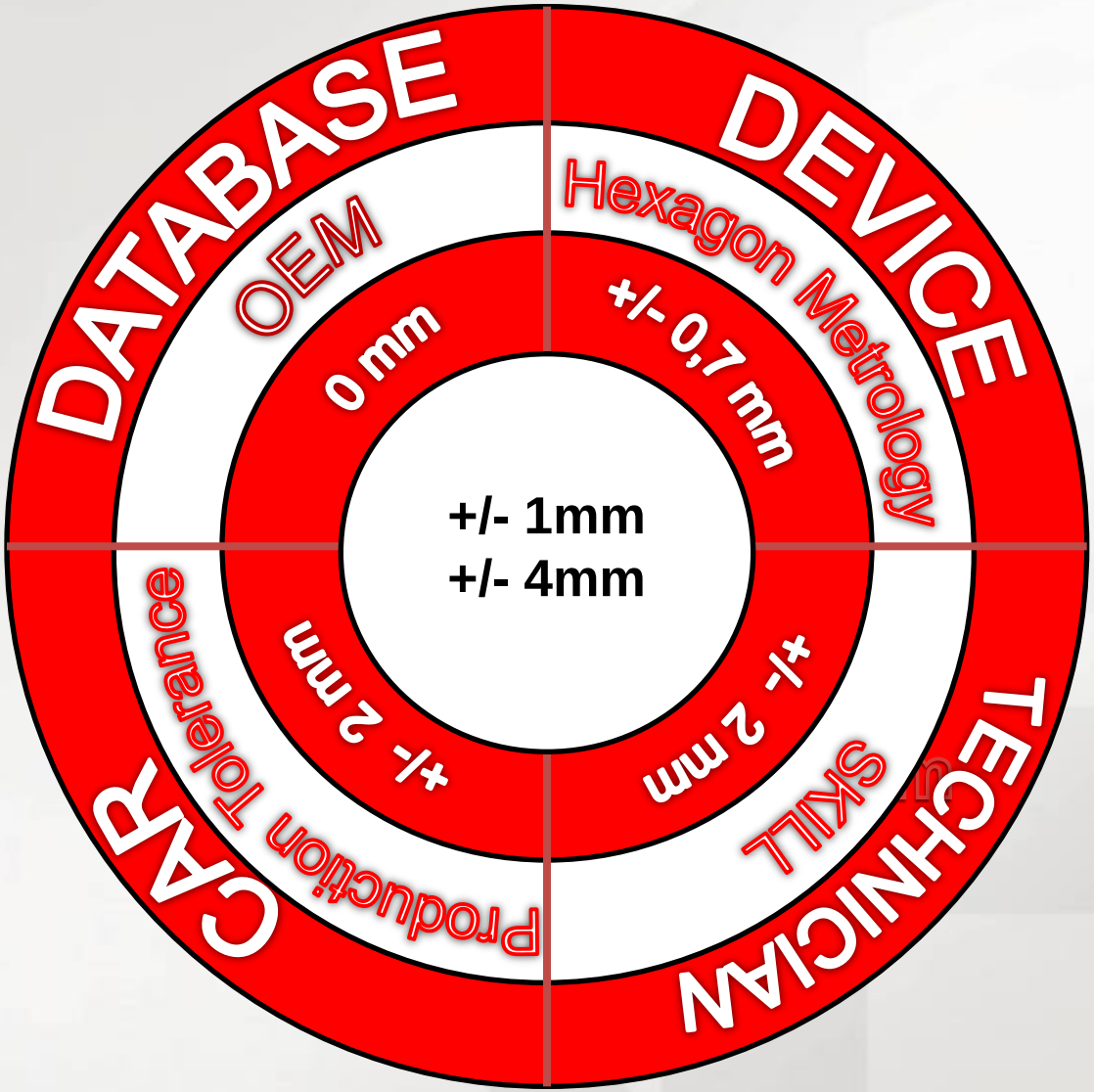
CARBON FIBER ARM

HEAD ASSOCIATED WITH THE BEAM

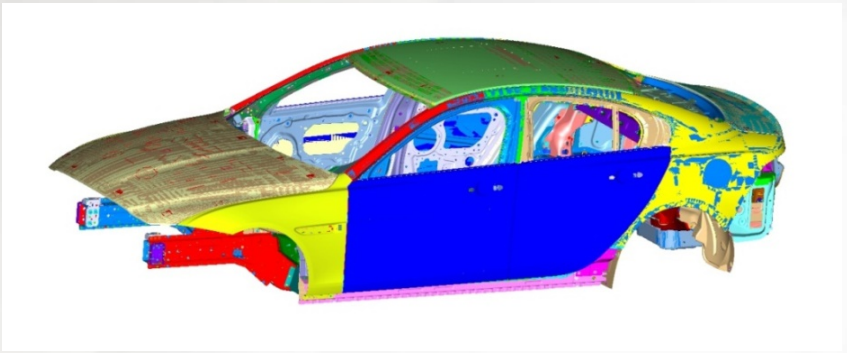
PROBES WITH DIFFERENT HEIGHT & DESIGN

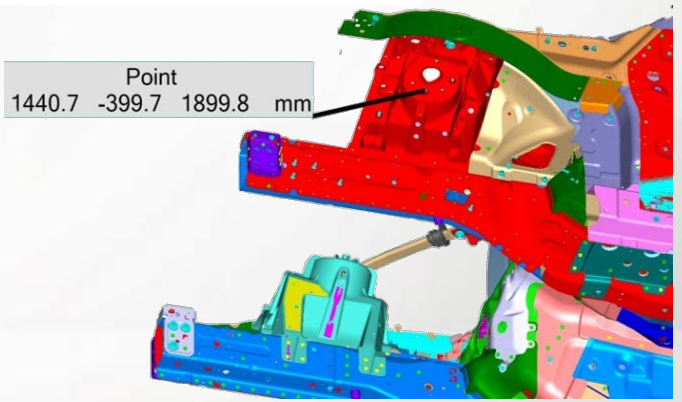
RANGE OF SOCKETS

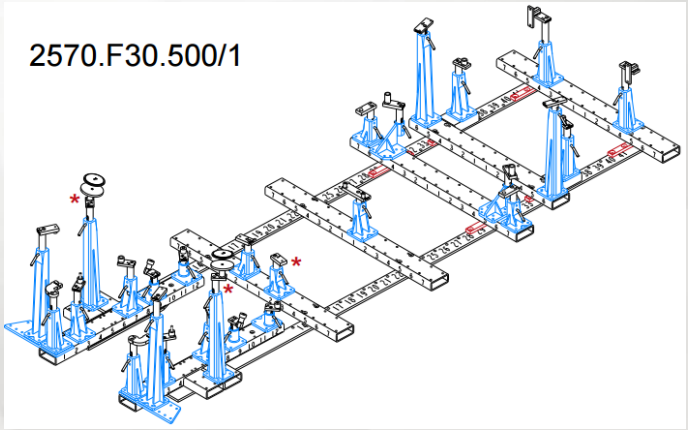
# NAJA 3D - ACCURACY



# NAJA 3D - ACCURACY

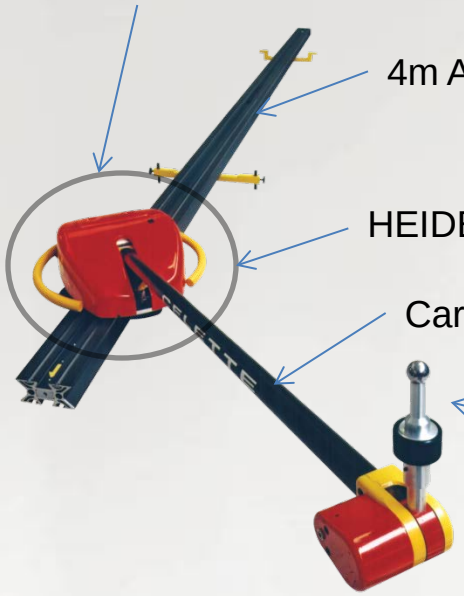






# NAJA 3D - ACCURACY

5 internal sensors



4m Aluminium Rail

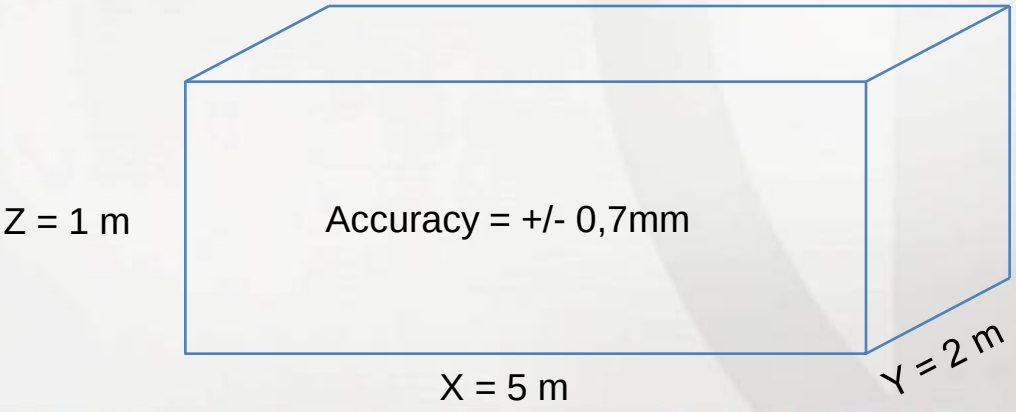
HEIDENHAIN Sensor = 144000 steps

Carbon fiber

Several Extensions

Additionnal rotation

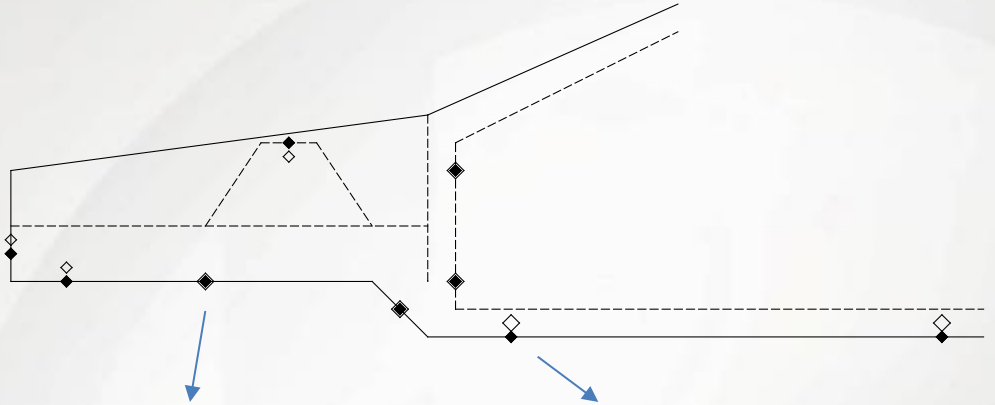
DEVICE
Hexagon Metrology
+/- 0,7 mm

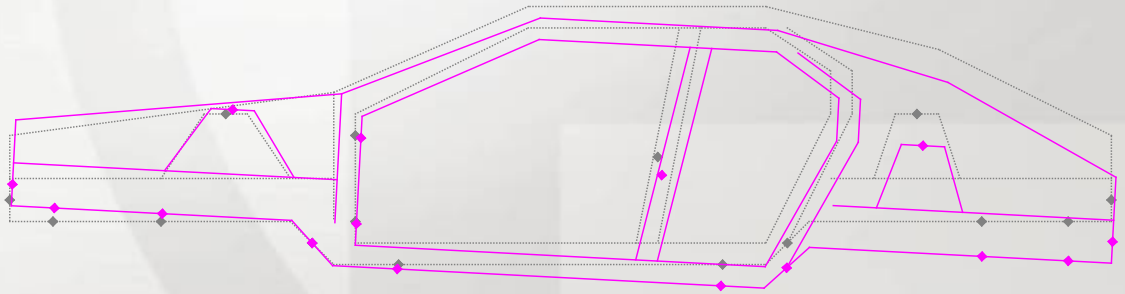



# NAJA 3D - ACCURACY

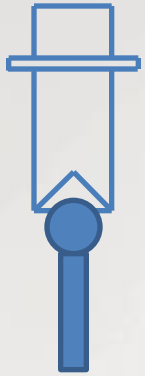
**CAR PRODUCTION TOLERANCE**

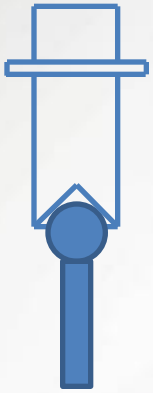
**AFFECT THE QUALITY OF THE LEVEL**



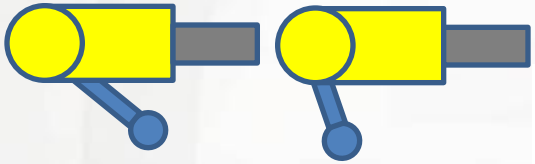



# NAJA 3D - ACCURACY





Wrong socket holding can affect the accuracy



Wrong Starting position will affect Naja accuracy

RAIL BENDING EFFECT is compensate by Calibration

Wrong rail setting may affect the accuracy