

3. Description of the main components of PipeWIZARD V4

Item	Description
A	Data Acquisition Unit TomoScan FOCUS LT 64:128: up to 64 focusing channels and 128 P/R for many combinations of phased-array and conventional probes. Fully digital, 20 kHz PRF, A-scan/C-scan storage, TOFD, sectorial and linear scans, up to 8000 A-scan/s of 512 points (8 bits amplitude), Ethernet link to PC, interface I/O
B	Motor Controller and Drive Unit Powerful PWZ-MCDU for one DC servo motor with Ethernet link
C	Instrumentation box Rugged, compact, heavy duty housing for TomoScan FOCUS LT and PWZ-MCDU units. IEC 529 protection. IP64 (dust and splashing water protected) including heat exchanger module mounted on the front cover. Internal chuck mounted for equipment protection
D	Computer and Software Industrial ruggedized laptop with two (2) software dongles (USB keys) for the new PipeWIZARD software V4.X. Also included: LCD flat screen monitor, mouse and keyboard.
E	Compact scanner head Carriage assembly with motor and encoder; Phased-array and dedicated TOFD assembly including two PA wedges and 2 TOFD wedges; Pre-amplifier for TOFD channels. Possibility to add an optional transverse module with four dedicated transverse transducers (transverse module not included - see options section).
F	Probes and sensor 2 standard phased-array probes : 7.5MHz, 60elts, 1mm pitch 2 TOFD transducers : 10MHz, 3mm active diameter 1 temperature sensor
G	Heavy-duty umbilical Highly reliable 25m (82ft) umbilical including 128 coaxial cables, motor and encoder cables and waterline.
H	Water pump unit Remote on/off button, manual flow regulator. Water tank not included.
I	Spare parts and tools kits PipeWIZARD spare parts kit includes all necessary spare parts to start on-site inspections (encoder with cable, motor with cable, gearbox, cables, fuses, wheels, screws, carbide pins, probe pan parts, umbilical parts, emergency button, 1 PA wedge assembly, 1 TOFD wedge assembly, etc.). Tools kit includes screw-drivers, hammer, Allen-keys, tools, measuring tape, grease, oil, etc.
J	Documentation package PipeWIZARD operation/maintenance manual PipeWIZARD guideline for data interpretation Certificate of calibration