



IDIADA CZ
TEST CENTER
PRESENTATION

November 2025



3.419 Professionals
25 Countries

A single organization able to adapt its international resources to meet each project needs



USA



BRAZIL



SPAIN



GERMANY



CZECH REPUBLIC



UNITED KINGDOM



INDIA



CHINA



APPLUS IDIADA CZ

CAD

CAE

CAS

Testing

PG support

CATIA, NX, Project management

Abaqus, MSC.Nastran, LS/Dyna, Pamcrash

Alias, Blender, Rhino/Grassh., ICEM, 3DExcite Deltagen

B&C, NVH, Vehicle Dynamics, Brakes, Durability, ADAS

Rescue and Security

Hradec Králové



Mladá Boleslav



Liberec



Brno



Praha



Kvasiny



Košice



TEST CENTER OVERVIEW

- Automotive
- Defence
- Aerospace

- Body & Components
- NVH, Vehicle dynamics & Brakes
- Durability & ADAS

- TISAX[®] ID PF2T6Y
- Accreditation ISO 17025:2018



Applus IDIADA Group
IDIADA CZ a.s.

CTPark Mladá Boleslav – Bezděčín 103
293 01 Mladá Boleslav – Bezděčín
Czech Republic

- Automotive



- Aerospace



- Defence



TEST CENTER

BODY&COMPONENTS

- Temperature
- Climate
- Air-air temperature shock
- Air-water temperature shock
- Light irradiation without UV
- Solar irradiation



- Vibrations

Vibration systems up to 120kN

Sine/Random/SoR/RoR

Resonance search and tracking

Silent mode

Shock up to 360kN (100G/11ms)

Vibration climatic chambers up to 12m³

Combination with light irradiation

Fixture design and manufacturing



- Mechanical
 - Static
 - Durability
 - Shock/Impact/Drop
 - Stone impact
 - Function
 - Misuse
- Photogrammetry
- 3D laser scanning
- Color/Gloss



- Corrosion
- Dust
- Sand
- Air flow
- Water – IP tests
- Muddy water spray
- Pressure/Altitude
- Leakage



desired value		actual value	
test pressure	200.0 mbar	test pressure	0.1 mbar
humidity	90.00%	test humidity	0.78 mbar
test temp.	25.00 mbar	humidity temp.	26.00 mbar
counter	0.00	test temp.	0.00 mbar
test1 press OK	1.78 mbar	test1 temp	201.0 mbar

- Electric
 - Sample operation and monitoring
 - HV, LV, current and resistance
 - Vector CANalyzer and CANoe
 - Safety checks
- Chemical resistance
- Noxious gases
- Material tests

- Design and manufacture of test equipment and fixtures



Accredited environmental tests – climatic, solar, vibration, corrosion and dust

Accredited electrical tests – voltage, current, resistance

Accredited tests of batteries – UN R100, UN 38.3, GB 38031, SAE J2464

- Vibration, Mechanical shock
- Thermal
- Altitude

Accredited tests of packages – ASTM D4169

- Pre-conditioning, Conditioning,
- Handling (drop test), Concentrated impact
- Vehicle stacking (compression test)
- Loose load vibration, Vehicle vibration
- Low pressure hazard



Tests of e-motors/power management

- K-01 High/Low Temperature Aging
- K-03 Low Temperature Operating Test
- K-05 Thermal Shock Test
- K-06 Salt Spray Test
- K-09 Damp Heat, Cyclic (with frost)
- K-11 High Pressure Cleaning
- K-12 Thermal Shock with Splash Water Test
- K-13 Thermal Shock Immersion Test
- M-02 Stone Impact Test
- M-03 Dust Test
- M-04 Vibration Test
- M-05 Mechanical Shock Test
- P-02/03 Parameter Tests and Physical Analysis





Tests according to MIL-STD-810G, DEF STAN, RTCA DO-160G, ...

- | | | | |
|---------------------------|----------------------|-----------------------------|----------------------|
| • Low Pressure / Altitude | MIL-STD-810H - 500.6 | • Low pressure | MIL-STD-810H - 500.6 |
| • High Temperature | MIL-STD-810H - 501.7 | • Rapid decompression | MIL-STD-810H - 500.6 |
| • Low Temperature | MIL-STD-810H - 502.7 | • Acid corrosion | DEF STAN 00-35 CN3 |
| • Temperature Shock | MIL-STD-810H - 503.7 | • Tightness | IEC 60529 |
| • Change of Temperature | MIL-STD-810H - 501.7 | • Explosive Atmosphere | RTCA DO-160G sec. 9 |
| • Solar Radiation | MIL-STD-810H - 505.7 | • Sand and Dust | RTCA DO-160G sec. 12 |
| • Humidity | MIL-STD-810H - 507. | • Icing with altitude | RTCA DO-160G sec. 24 |
| • Salt Fog | MIL-STD-810H - 509.7 | • TS of piping and fittings | MA2004, ISO 6773 |
| • Sand and Dust | MIL-STD-810H - 510.7 | • Fire resistance | AS1055 |
| • Contaminantion/Decont. | MIL-STD-810H - 504.3 | | |
| • Vibration | MIL-STD-810H - 514.8 | | |
| • Shock | MIL-STD-810H - 516.8 | | |
| • Rain | MIL-STD-810H - 506.5 | | |
| • Icing | MIL-STD-810H - 521.4 | | |
| • Snow | MIL-STD-810H - 5.3 | | |

Didn't find the test you were
looking for? Contact us.
We will try to arrange it for you.

TEST CENTER

NVH, VEHICLE DYNAMICS, BRAKES

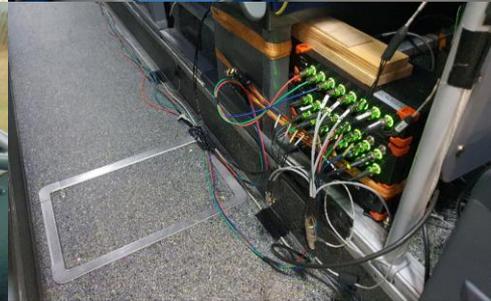
- Modal analyses
- Vehicle dynamics
- Noise and vibration
- Suspension analyses
- Engine mountings analyses
- Tests in public roads and proving grounds
- Multi body dynamics simulations
- Correlation with FEM and MBS
- Complex brake testing



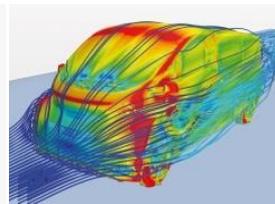
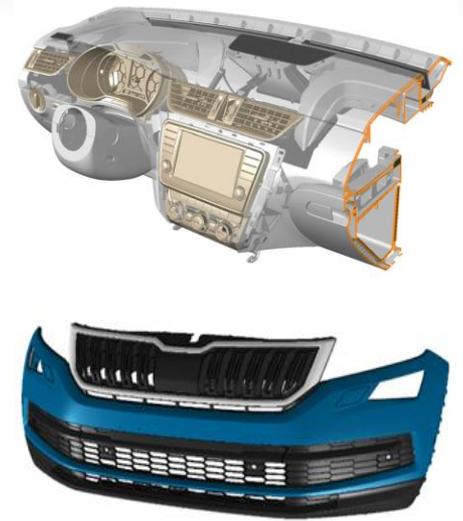
TEST CENTER

DURABILITY, ADAS, PG MANAGEMENT

- Long time tests in public roads
- Quality tests
- Vehicle inspections
- Market driving assessment
- ADAS tests
- Component durability measurements and calculations
- Vehicle service and tire changing
- Summer and winter test
- Management of the BMW proving ground in Sokolov



- Project activities in different responsibility level
 - Management
 - Project Coordination
 - Technical Leading
 - CAS/CAD/CAE/Testing activities
 - Technical/administrative activities
- Project start till SOP+3 months





THANK YOU
FOR YOUR KIND ATTENTION



www.applusidiada.com

Applus IDIADA

Headquarters and Main Technical Centre

L'Albornar – PO Box 20
E-43710 Santa Oliva (Tarragona) Spain
T +34 977 166 000 F +34 977 166 007
e-mail: idiada@idiada.com

www.idiada.com

Applus IDIADA Belgium

T +32 2 757 27 07 (Brussels)
e-mail: idiada_belgium@idiada.com

Applus IDIADA Brazil

T +55 11 4330 9880 (São Paulo)
T +55 31 3591 6832 (Belo Horizonte)
e-mail: idiada_brasil@idiada.com

Applus IDIADA China

T +86 21 6210 0894 (Shanghai)
T +86 21 6210 0894 (Beijing)
T +86 431 8190 9680 (Changchun)
T +86 23 6756 8060 (Chongqing)
T +86 21 6210 0894 (Cixi)
T +86 20 2282 9202 (Guangzhou)
T +86 21 6210 0894 (Ningbo)
T +86 532 66019017 (Qingdao)
T +86 21 6210 0894 (Tianjin)
T +86 21 6210 0894 (Wuhu)
T +86 535 8933658 (Zhaoyuan)
e-mail: idiada_china@idiada.com

Applus IDIADA Czech Republic

T +420 493 654 811 (Hradec Králové)
T +420 778 430 095 (Brno)
T +420 482 424 243 (Liberec)
T +420 326 736 860 (Mladá Boleslav)
e-mail: info@idiada.cz

Applus IDIADA France

T +33 (0) 181 891 943 (Paris)
T +33 (0) 130 370 836 (Paris)
T +33 (0) 141 146 085 (Lyon)
e-mail: idiada_france@idiada.com

Applus IDIADA Germany

T +49 (0) 84188538-30 (Ingolstadt)
T +49 (0) 89309056-0 (Munich)
T +49 (0) 84188538-30 (Stuttgart)
T +49 (0) 5374920606-0 (Wolfsburg)
e-mail: idiada_germany@idiada.com

Applus IDIADA India

T +91 44 2275 2202 (Chennai)
T +91 124 4028 888 (New Delhi)
T +91 20 6605 6800 (Pune)
e-mail: idiada_india@idiada.com

Applus IDIADA Italy

T +39 051 0923530 (Bologna)
T +39 005 10923500 (Erbusco)
T +39 011 2640320 (Turin)
e-mail: idiada_italia@idiada.com

Applus IDIADA Japan

T +81 (0) 42 512 8982 (Tokyo)
T +81 (0) 52 588 5329 (Nagoya)
e-mail: idiada_japan@idiada.com

Applus IDIADA Malaysia

T +603 9207 7018 (Kuala Lumpur)
T +601 2410 7686 (Penang)
e-mail: idiada_malaysia@idiada.com

Applus IDIADA Mexico

T +52 (222) 644 1374 (Puebla)
e-mail: idiada_mexico@idiada.com

Applus IDIADA Poland

T +48 61 6226 905 (Poznan)
e-mail: idiada_polska@idiada.com

Applus IDIADA Scandinavia

T +46 (0) 31 320 1844 (Gothenburg)
e-mail: idiada_scandinavia@idiada.com

Applus IDIADA Slovakia

T +420 778 430 098 (Košice)
e-mail: idiada_slovakia@idiada.com

Applus IDIADA South Korea

T +82 31 478 1821 (Seoul)
e-mail: idiada_korea@idiada.co.kr

Applus IDIADA Spain

T +34 977 166 000 (Santa Oliva)
T +34 928 587 447 (Las Palmas)
T +34 915 095 795 (Madrid)
T +34 950 473 256 (Mojácar)
T +34 868 912 179 (Murcia)
T +34 948 292 921 (Pamplona)
T +34 955 117 111 (Sevilla)
T +34 986 900 300 (Vigo)
e-mail: idiada@idiada.com

Applus IDIADA Sweden

T +46 731 478 202 (Göteborg)
T +46 731 478 202 (Stockholm)
e-mail: idiada_sweden@idiada.com

Applus IDIADA China (Taiwan)

T +886 47 810 702 (Lukang)
e-mail: idiada_taiwan@idiada.com

Applus IDIADA Thailand

T +66 86 7917 071 (Bangkok)
e-mail: idiada_thailand@idiada.com

Applus IDIADA Turkey

T +90 216 250 6050 (Istanbul)
e-mail: idiada_turkey@idiada.com

Applus IDIADA UK

T +44 1223 441 434 (Cambridge)
T +44 2476 328 083 (Nuneaton)
T +44 1926 623 132 (Warwick)
e-mail: idiada_uk@idiada.com

Applus IDIADA USA

T +1 248 978 0111 (Detroit)
T +1 760 246 1672 (Los Angeles)
e-mail: idiada_USA@idiada.com

Applus[®]
IDIADA

