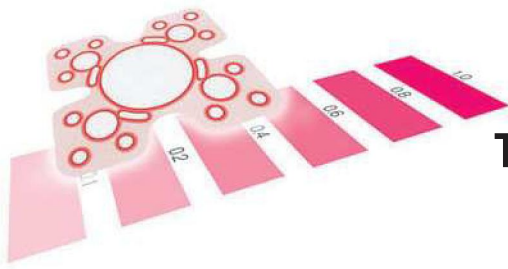


Pressure Measurement Film

PRESCALE

Application examples for Automobiles



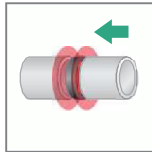
The only film in the world for visualizing pressure
 Widely support R&D or production process
 for automobiles

Examples of engine compartment

➤ Gasket/O-ring

Tightening pressure

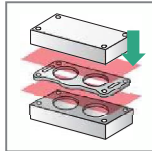
- Check sealing performance of gaskets, seals and O-rings



➤ Cylinder head gasket

Tightening pressure

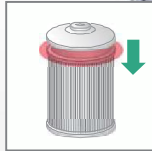
- Inspect sealing performance of cylinder head gaskets (Included in JISD3105)



➤ Air filter/Oil filter

Contact condition

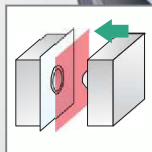
- Observe contact conditions when attaching filter parts



➤ Die casting

Contact condition

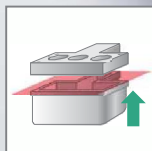
- Verify contact condition of molds
- Verify form of die casting by inserting between molds and die cast



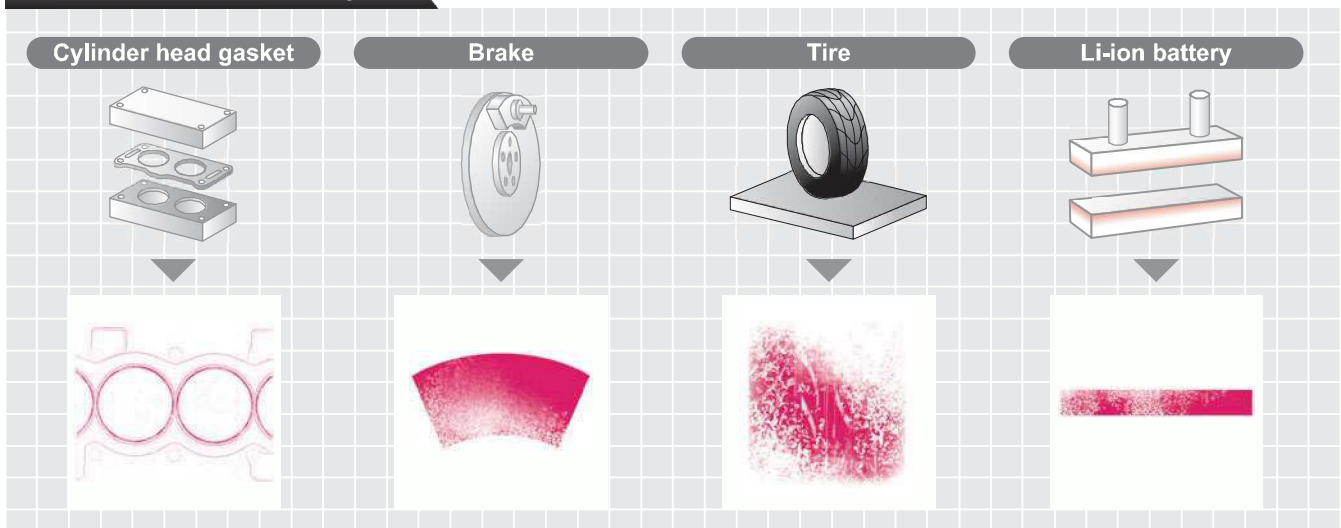
➤ Oilpan

Tightening pressure

- Confirm sealing performance of oil pans



Measurement results examples

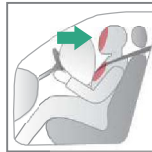


Examples for automobile components

Air bag

Impact pressure

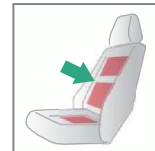
- Evaluate the safety of airbag



Seat

Contact pressure

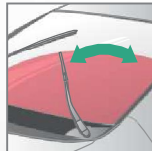
- Check the conditions endurance test
- Measure the contact pressure in test dummy research applications



Wiper

Contact condition

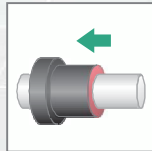
- Test contact conditions and performance of wiper blades against windshield



Wire harness

Tightening pressure

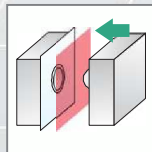
- Check sealing performance of wire harness grommets



Plastic parts (Bumper, Dashboard, etc.)

Contact condition

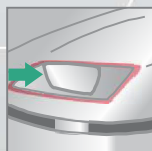
- Verify contact conditions of molds for injection molding machines
- Verify form of moldings by putting between molds and moldings



Head lamp

Contact condition

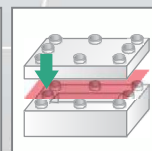
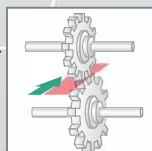
- Check contact conditions when attaching head lamp



Transmission

Contact condition Tightening pressure

- Test contact condition of gear wheels for transmissions
- Test sealing performance of transmission cover



Floor mat

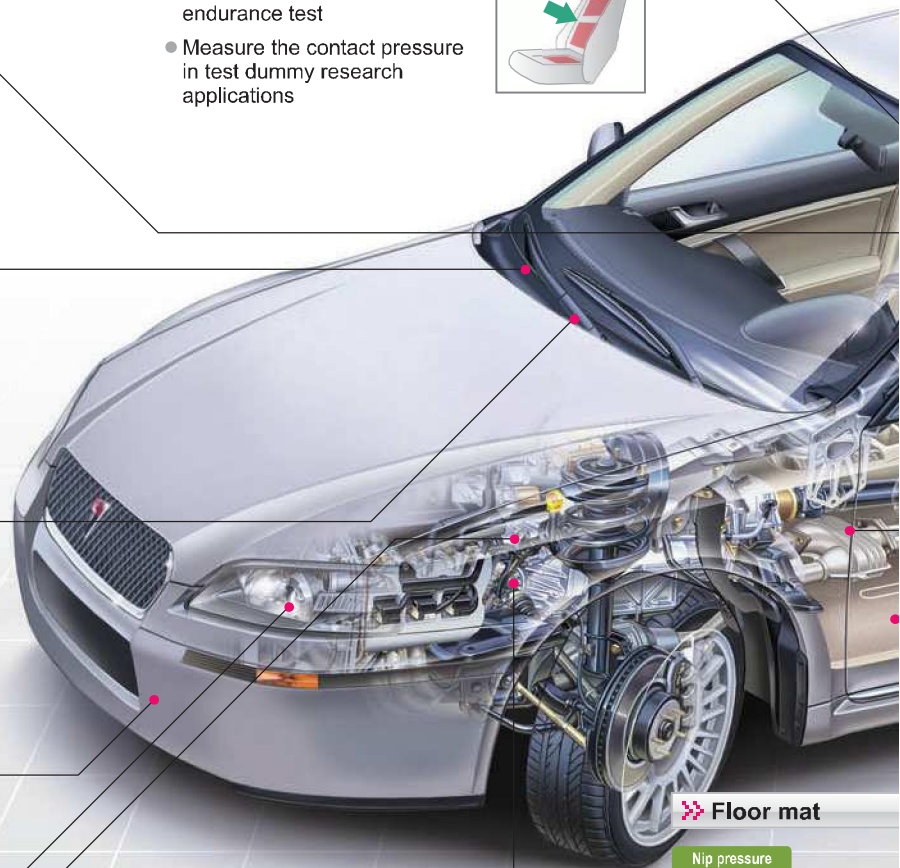
Nip pressure

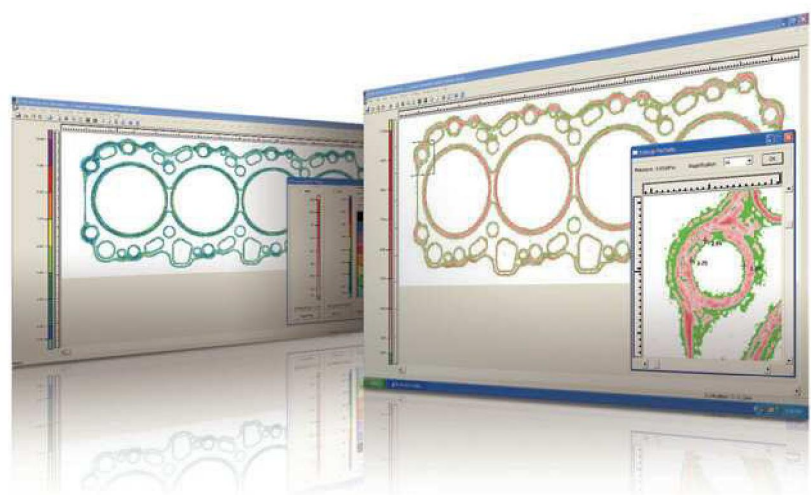
- Check adhesive press floor mat lamination

Clutch

Contact condition

- Measure contact condition of clutch plates
- Measure sealing performance of clutch cover

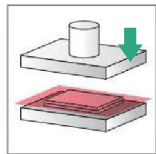




Body/Chassis

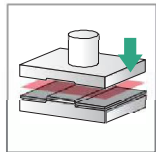
Contact condition

- Adjustment of press machines by measuring contact condition of distance blocks



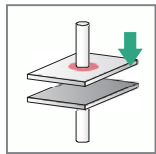
Contact condition

- Verify contact conditions of mold
- Verify the product's form by inserting between molds and body or chassis



Contact condition

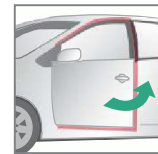
- Check contact condition of electrodes in spot welding or projection welding



Door

Contact condition

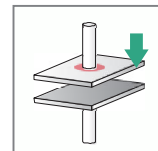
- Validate contact conditions of door weatherstrip



Fuel tank

Contact condition

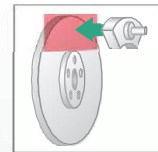
- Check contact condition of electrodes in spot welding or projection welding fuel mater to fuel tank



Brake

Contact condition

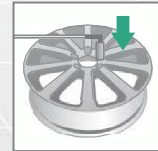
- Measure contact condition of brake pads



Aluminum-wheel

Tightening pressure

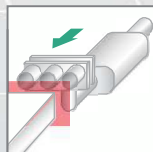
- Verify tightening pressure balance attaching aluminum wheel



Exhaust

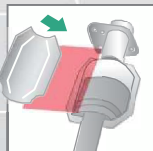
Tightening pressure

- Check tightening pressure between exhaust manifolds and flanges of mufflers



Tightening pressure

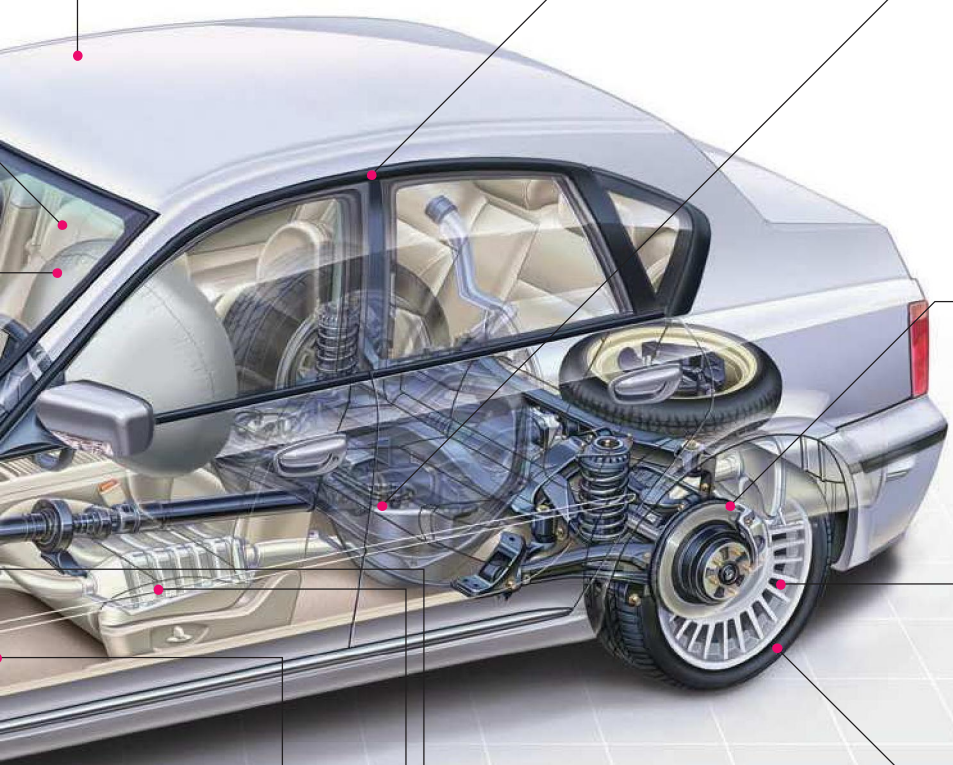
- Check tightening pressure of catalytic converter



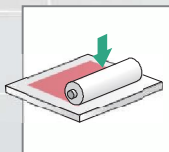
Tire

Support pressure Nip pressure

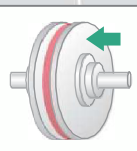
- Check the trace in running test
- Check adhesive pressure of laminating rubber



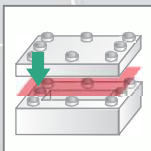
ure of



ition

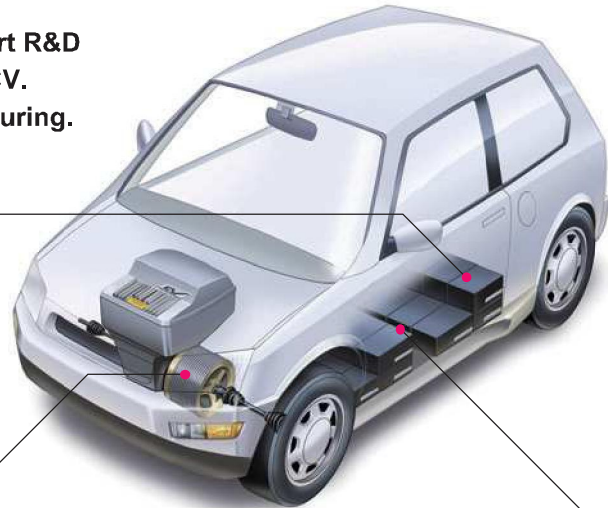


mance



Examples of EV/HEV/FCV

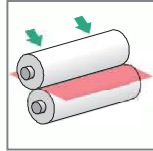
PRESCALE will provide an opportunity to support R&D and production processes for EV, HEV/PHEV, FCV. Contributes to higher quality and safer manufacturing.



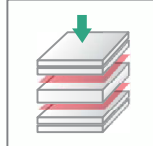
Li-ion battery

Contact condition Nip pressure

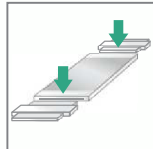
- Measure nip pressure of coating machine for electrode



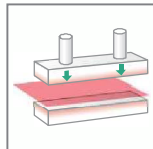
- Check contact condition of stacking machine for cathode, anode and separator



- Test contact condition of tab welding machine



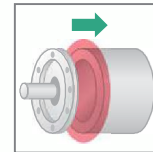
- Adjustment of heat sealing machines for aluminum lamination film



Motor

Tightening pressure Contact condition

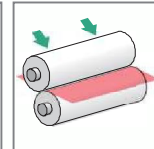
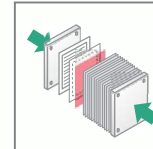
- Tightening pressure in assembling
- Verify contact conditions for polishing magnets



Fuel cell

Tightening pressure Nip pressure

- Uniformity of cell stack
- Flatness of separators
- Adhesive pressure of electrolyte membrane lamination



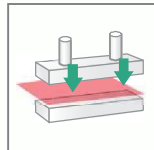
Examples of car electronics



Car navigation/In-console

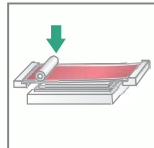
Contact condition

- Test contact conditions of ACF bonding machine for LCD panel or touch panel



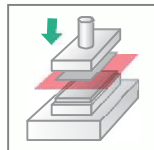
Nip pressure

- Check roller pressure uniformity when attaching cover glass or OCA to touch panel



Contact condition

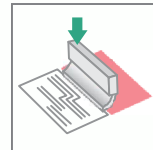
- Analyze uniformity of assembly jig pressure for touch panel or LCD
- Analyze uniformity of UV-curable Resin-based Laminating Systems



PCB/Ceramic devices

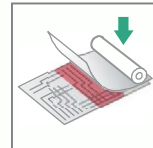
Squeegee pressure

- Measure squeegee pressure distribution during cream solder printing



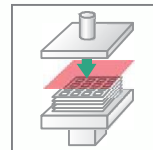
Nip pressure

- Measure adhesive pressure of DFR lamination



Contact condition

- Check mold contact evenness and pressure uniformity of stacking machines



*Note that the specifications and performance data described in this catalog are subject to change without notice for the purpose of improvement. Since the images provided are used for illustration purposes, they may differ slightly from actual products.