

# Dynnistn

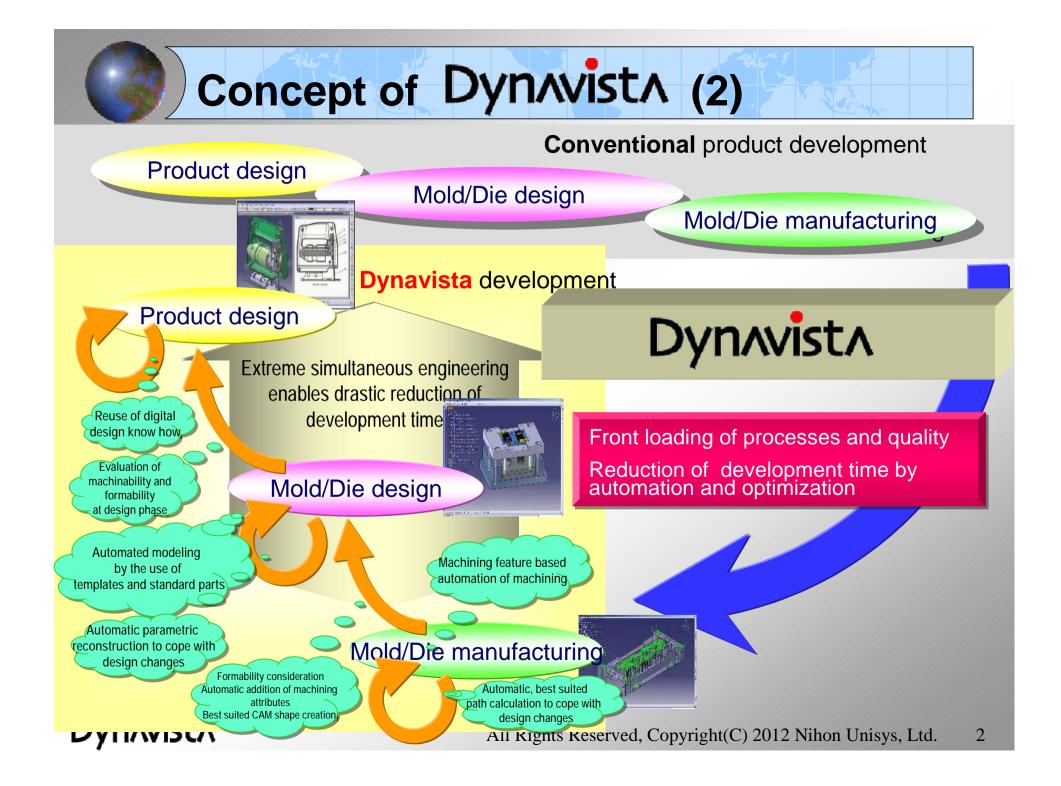
CAA V5 based V10.2 / V11.2 Overview

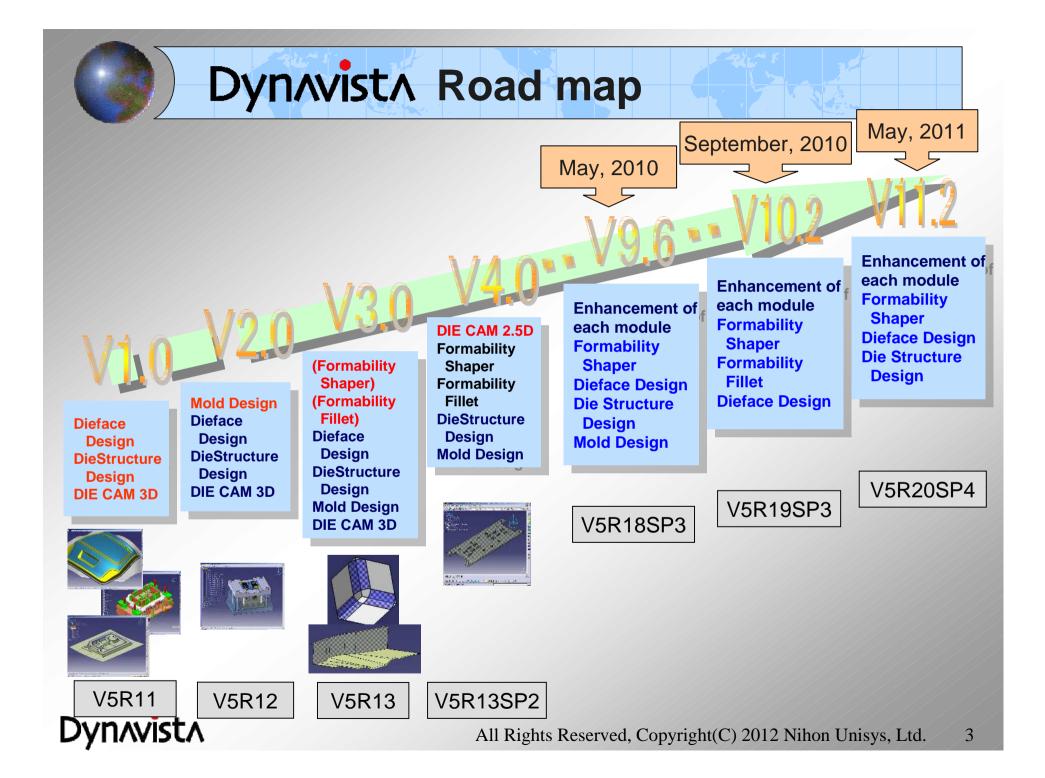
> January, 2012 UNIADEX, Ltd.

# Concept of DynAvistA (1)

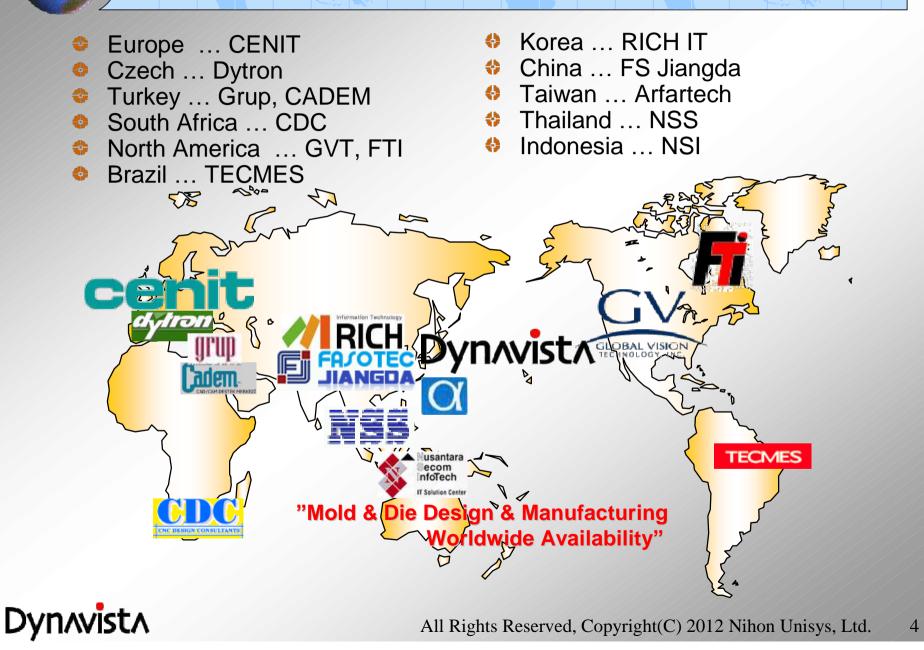
Innovation of mold/die development!! **Realization of extreme optimization**, automation and synchronization of mold/die development processes by incorporating LEADING EDGE Japanese technology on top of world de facto CAD platform.

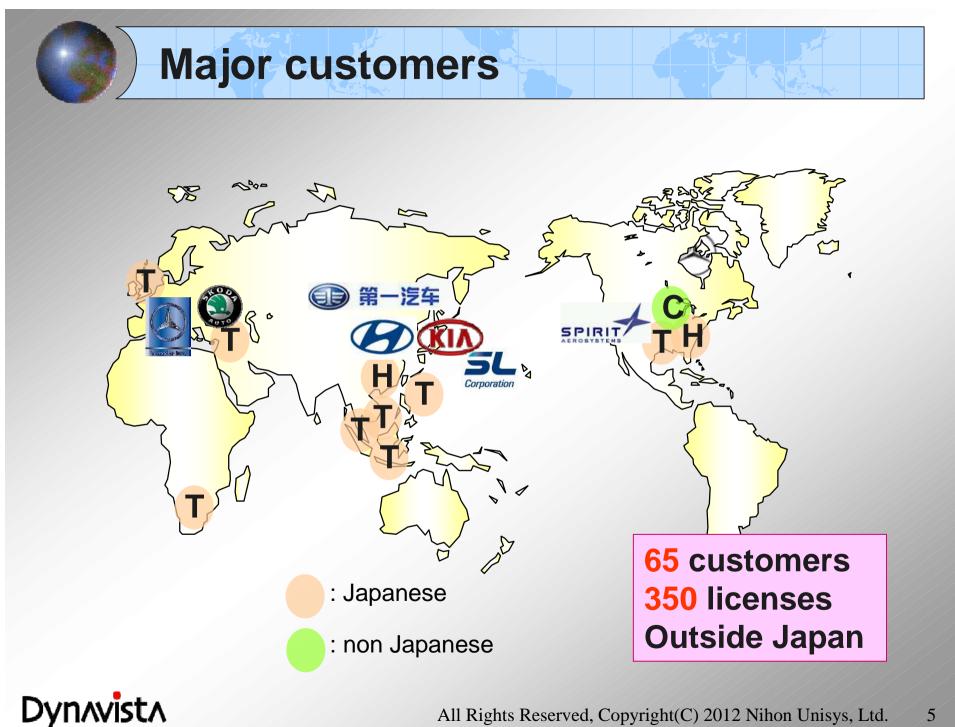
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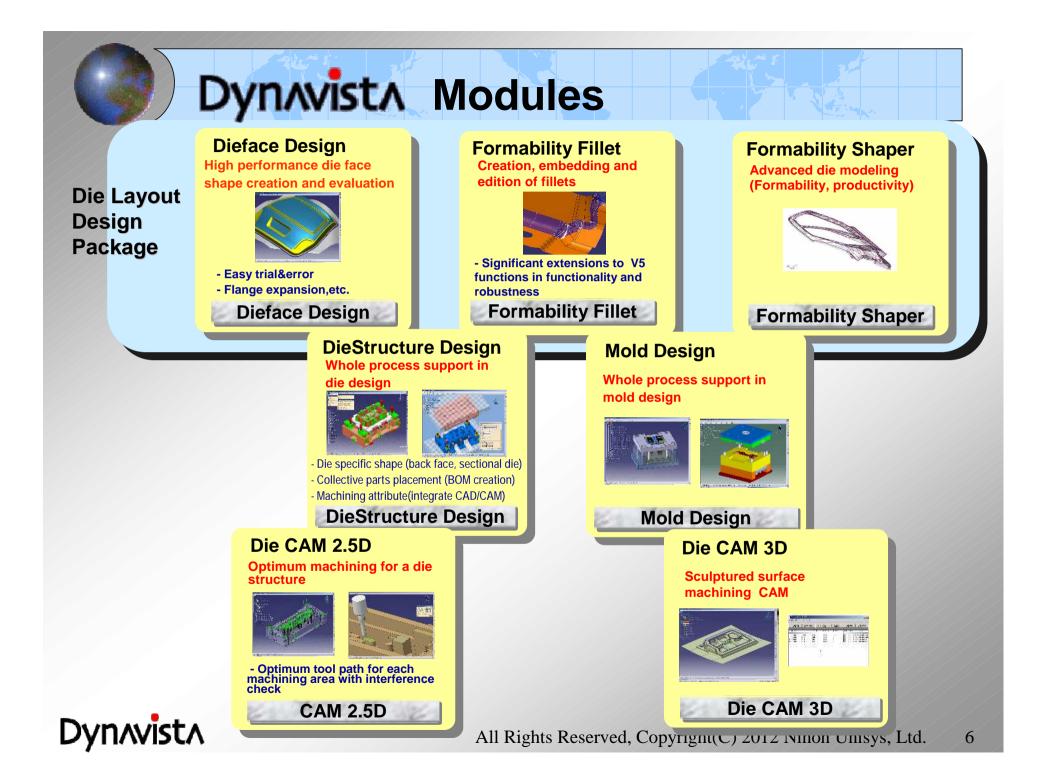


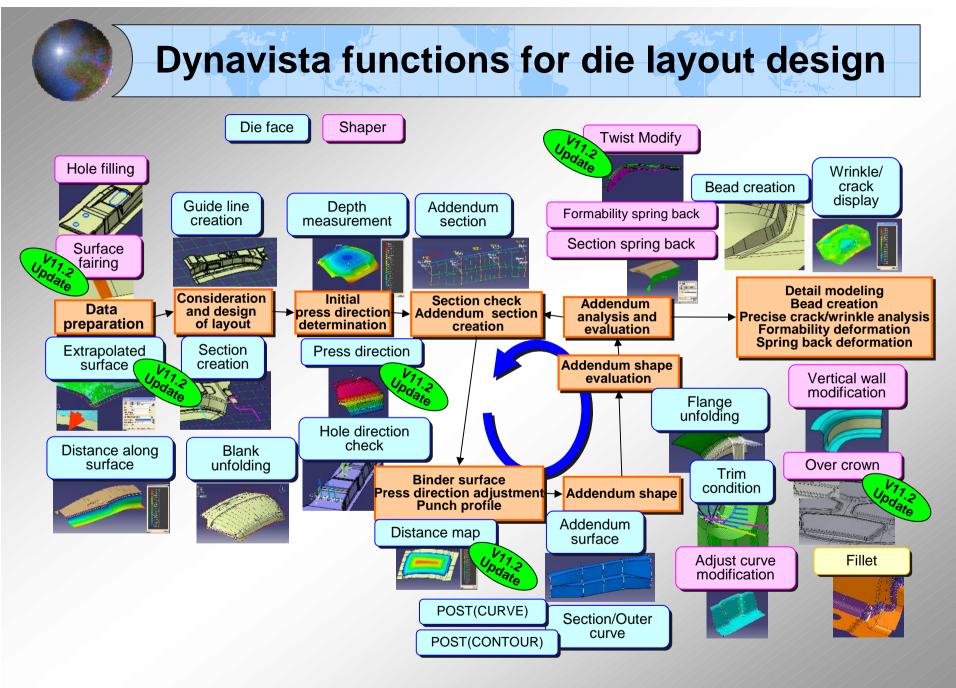


### Worldwide support





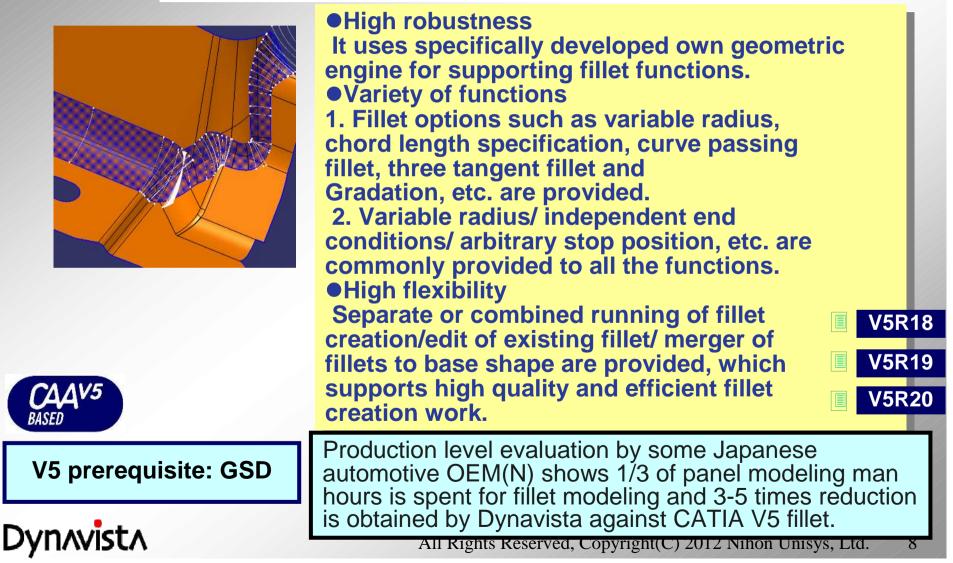




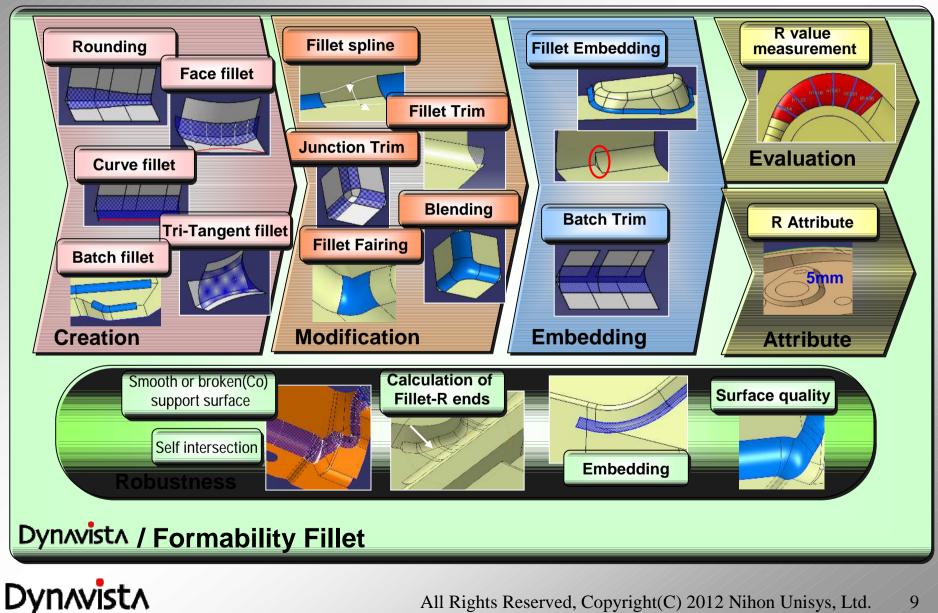
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# **Formability Fillet**

# High performance and robust fillet creation for complex support shape environment.

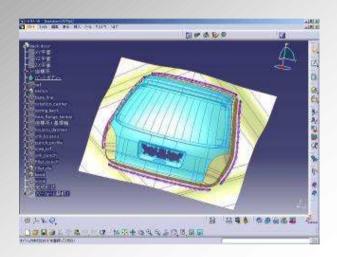


# **Formability Fillet command**



## **Dieface Design**

# Improvement of efficiency and quality in die face design.



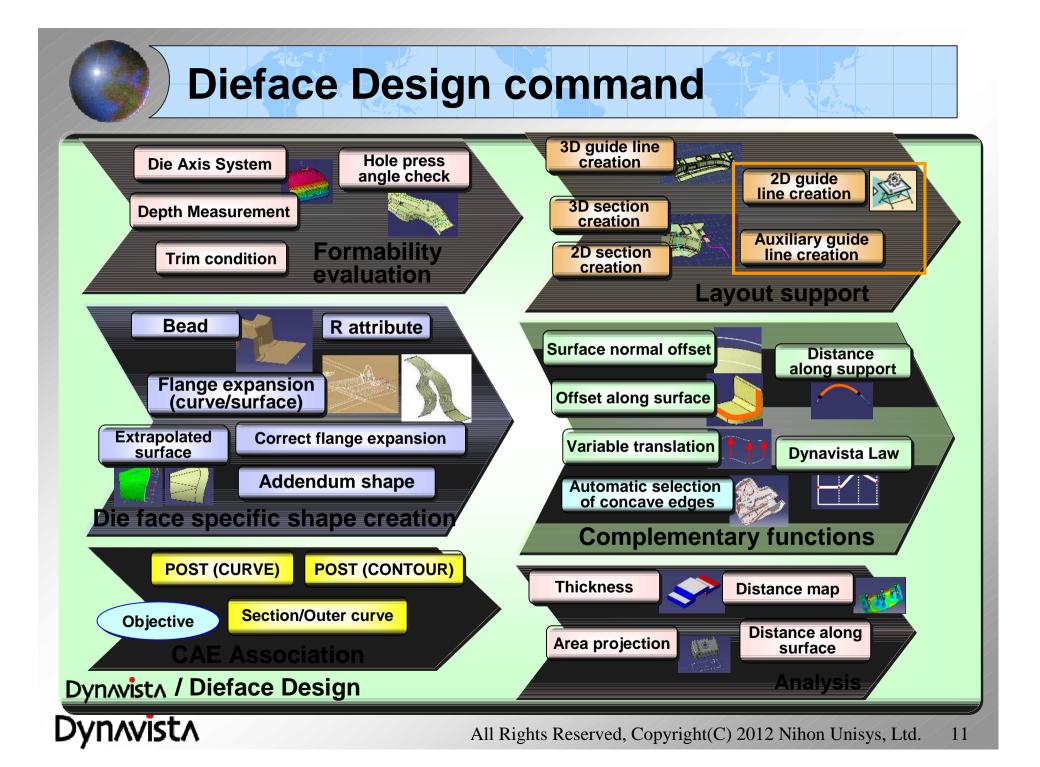
- Drastic reduction of design manhour by specific functions for die face shape - such as shape creation, edition and evaluation.
- Design quality can be automatically build-in by evaluation before production with the effective use of design know-how.





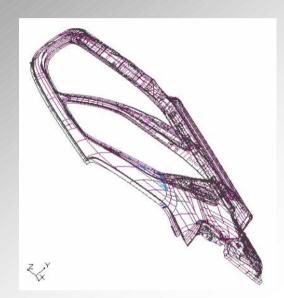
V5 prerequisites: HD2





# **Formability Shaper**

Estimation of large deformation of panel after forming - Formability Shaper.



- Sophisticated die shape deformation functions which drastically decrease die design time.

- Simple input for gaining deformed shape.

- Strong surface deformation functions which preserve characteristics of original surfaces.



V5 prerequisite: GSD (or HD2)



#### **Formability Shaper command** Vertical wall deformation Formability spring back Surface normal offset Section spring back Specified direction Along surface **Adjust Curve Rotation base** Modification curve creation **Twist Modify Over crown** 囄 Section base curve creation **R** Reduced Surface **Section Curve** Modify Deformation Gap filling Notch filling Hole filling Surface fairing Complementary **Angle evaluation**

DynAvistA / Formability Shaper

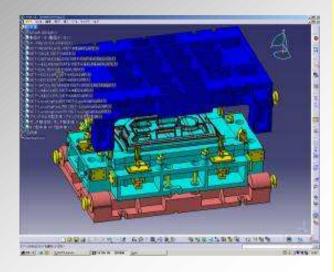
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**Evaluation of deformation amount** 

## **Die Structure Design**

#### Die Structure Design automates stamping die structure design.



- Complex shapes are automatically created such as sectional die and back face, etc.
- Automatic creation of parts list enables association with BOM.
- CAM automation achieved by attribute association with 2.5D/3D CAM.

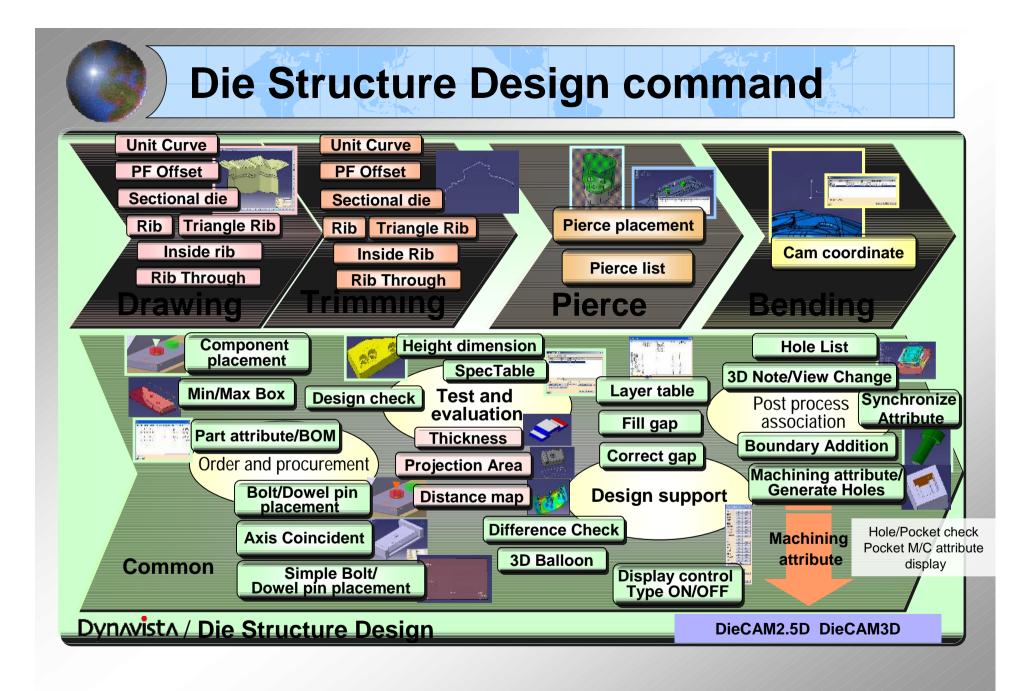




V5R18

V5R19

**V5R20** 



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# **Mold Design**

#### MoldDesign automates mold die design.



- Functionality covering both from small to large mold parts.
- Hybrid design of 2D and 3D design method.
- Various standard parts featuring information useful for manufacturing and procurement.
- Automatic creation of parts list enables association with BOM.
- CAM automation achieved by attribute association with 2.5D/3D CAM.



V5 prerequisites: MD2 (or HD2)

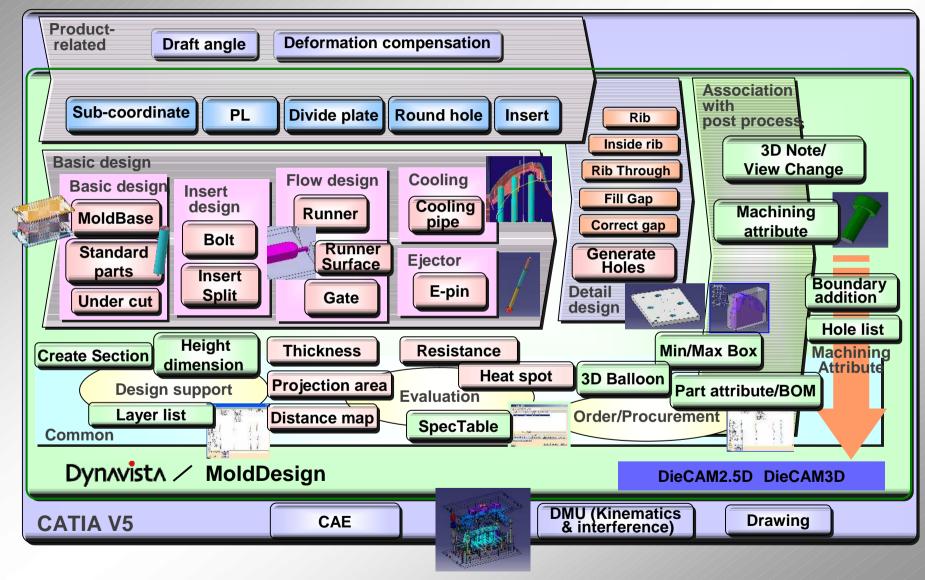
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**V5R18** 

**V5R19** 

**V5R20** 

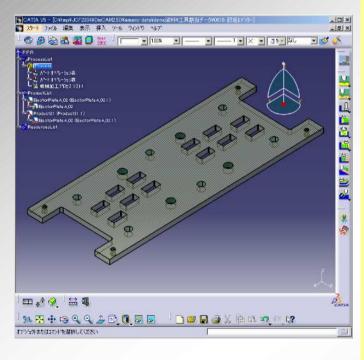
# **Mold Design command**



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# Die CAM 2.5D

# Die CAM 2.5D/CAM 2.5D automates and optimizes machining for die structures.





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V5 prerequisites: MD2

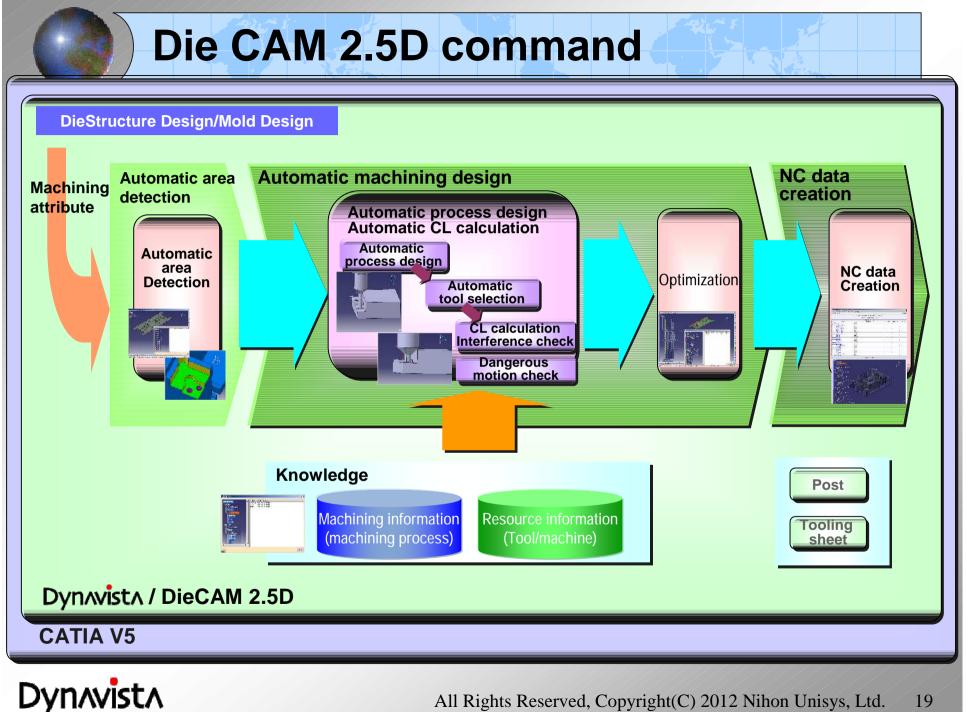
- Interference-free tool paths are calculated by taking tool changes and attachment changes into accout.

- Various machining operations especially for die structure machining.

- Automatic recognition of machining area and automatic selection of machining process and tool by the attribute association with DieStructure Design or MoldDesign.

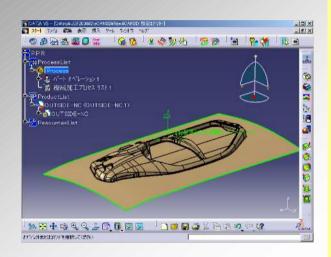
- Machining sequence optimization taking efficiency and quality into account.





## **Die CAM 3D**

# Die CAM 3D/CAM 3D automates and optimizes machining for die product shape.

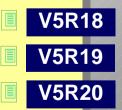


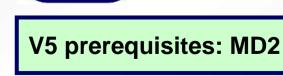
-Various machining operation with users machining know-how.

- Interference-free tool paths are calculated by taking tool changes and attachment changes into account.

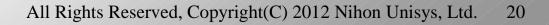
- Efficient NC data optimizing machining sequence and air cut.

- Many support functions to improve work efficiency.

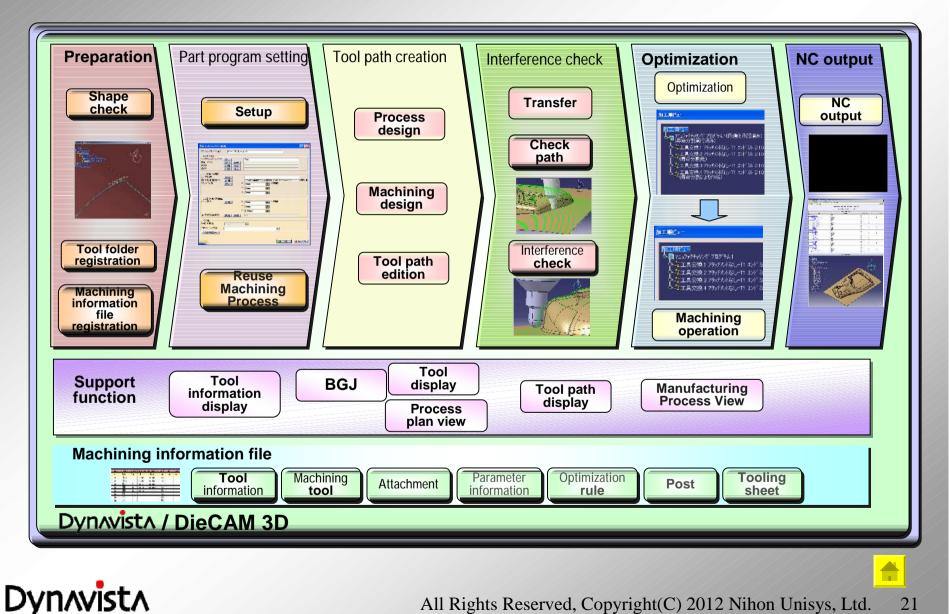




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## **Die CAM 3D command**



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# Dynavista CAA V5 based

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