

COMPANY PRESENTATION



European Job Days 18 & 19 oktober 2017

HISTORY





Premier global brand in powertrain technology and production



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 Foundation of DAF production facility in Sint Truiden

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1991-2

- Completion of new CVT manufacturing plant in Sint-Truiden
- Opening of development centre

2006 PUNCH

Acquired by Punch International

2010



- Strong
 investments in
 capacity
 expansion and
 new
 developments
- Investment by Gimv and Capricorn

2013



Acquisiton of DTI

2016



- Yinyi Group acquires 100% of Punch Powertrain
- Further extension of plants in China and Belgium

1975

 Sint Truiden facility acquired by Volvo

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1998



 ZF acquires powertrain production and development

2009



- Investment by LRM
- Chinese factory operational
- First Chinese clients in SOP

2011

Extension of factory in Nanjing

 First hybrid client signed

2014



 New Horizon acquires a 30% stake

0

2017



- Acquisition TEG
- Inauguration new factory in Iran



Past growth and products for future growth

DT1

2006 2016 2017 Domestic Chinese OEMs: 14% of all ATs is Punch CVTs **CUSTOMERS** Demand from other regions rises Wider spread of applications **APPLICATIONS** Design for global market coverage 2017: 70 apps/ >800kupa VT2/3 2006: few apps/<30 kupa VT2 **PRODUCTS PRODUCT DEVELOPMENT**

HS₂

VT3

VT5

EP2 4

LOCATIONS









TECHNOLOGIES







Over 40 years of experience in producing and developing CVT

Driver Benefits

- **Proven reliability** (over 1.000.000 transmissions on the road)
- Relaxing comfort of smooth stepless shifts (especially in traffic jams)
- Highly **fuel efficient**, also in real traffic (low cost of ownership)

OEM benefits

- Short implementation time
- Flexible solution
- Cost efficient (application and piece price)
- Ideal compact solution for FWD cars
- **High torque** and even more efficient solutions in development
- 48V ready





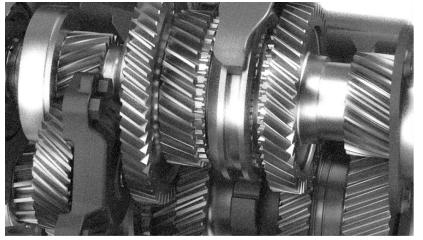




NEXT GENERATION











Innovative and compact 7 speed Dual Clutch Transmission

Driver Benefits

- Same response and comfort as other DCTs
- Robust clutch pack designed for high thermal loads that occur during city driving
- Highly fuel efficient 7 speed automatic

OEM benefits

- Compact unique single lay shaft design
- Innovative concept allows component reduction:
 - Increased reliability
 - Lower piece price
 - Lower weight
- Wet clutch pack significantly more robust than conventional DCTs
- Scaleable concept, 48V ready





CVT based plug-in hybrid solution

Driver Benefits

- Proven reliability
 (shares many components with over 1.000.000 CVTs already on the road)
- Relaxing comfort of smooth stepless shifts (especially in traffic jams)
- Highly fuel efficient, also in real traffic (low cost of ownership)

OEM benefits

- P3 configuration for optimum system efficiency
- Cost efficient hybrid (application and piece price, due to carry over of CVT parts)
- Ideal compact solution for FWD cars (installation length = conventional CVT)
- Flexible solution: designed as PHEV, also Full HEV configuration is possible

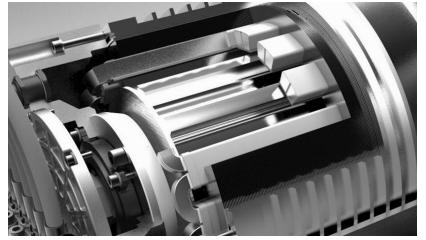


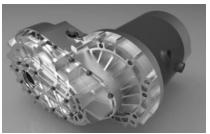














NEXT GENERATION

Integrated EV powertrain solutions

Driver Benefits

- Full **EV drive experience**:
 - Smooth
 - High performance
 - Silent
- **Zero-emission** vehicle

OEM benefits

- Turnkey powertrain solution with **integrated**:
 - E-Motor
 - **Power Electronics**
 - Transmission
- Compact, robust and low weight design
- Next generation EV free of rare earth materials already in preparation
- Multi-speed EV concepts patented as well

CUSTOMERS





































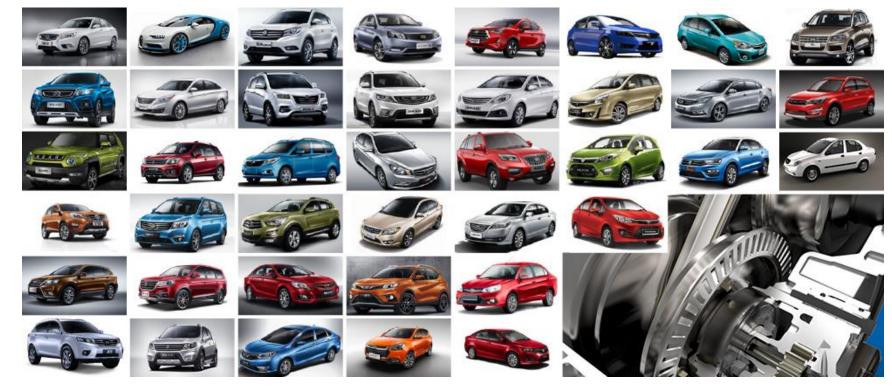














Thank you for your attention!

For more info about us, please visit our website www.punchpowertrain.com

