



PLM World Teamcenter Express

User Interface and Use Cases





Teamcenter Express Overall Agenda



Monday 101 B	Wednesday 103 C	Thursday 103 B	Thursday 201 A
UGS Velocity Series General Session	UGS Velocity Series- Tc Express	UGS Velocity Series	Training Session 10:30 - 12:00
3:45pm	Teamcenter Express Overview - Barry Dudley, UGS		Getting started with Teamcenter Express
Velocity Series Teamcenter Express Overview - Barry Dudley, UGS	10:15 - 10:30 Break	12:00 - 1:00 Lunch	Training Sessions 1:00 - 3:15
	UGS Velocity Series- Tc Express	UGS Velocity Series (2:45pm)	Getting started with Teamcenter Express
	Teamcenter Express User Interface; Teamcenter Express Use Cases - Todd Schoen, UGS	Microsoft SQL Server Configuration for Insight and Teamcenter Express - UGS (Microsoft?)	Getting started with Teamcenter Express
	Teamcenter Express Options - Jim Mays, UGS		Getting started with Teamcenter Express – Training Workshop
	12:00 - 1:00 Lunch	3:15 - 3:45 Break	This 90-minute workshop will provide attendees with their first experience of using Teamcenter Express for everyday tasks and processes. An introduction to the Teamcenter Express User Interface Navigator, Explorer and Data panels will be followed by exercises to discover how to use Teamcenter Express for individual, team and company-wide activities.
	UGS Velocity Series- Tc Express		
	Teamcenter Express & Solid Edge Embedded Client for Users - UGS		
	Teamcenter Express User Presentation - Jack Beeckman, Libert		
	Teamcenter Express for NX and I-deas NX Series Users - UGS		
	3:15 - 3:45 Break		
	UGS Velocity Series- Tc Express		
	Teamcenter Express Workflow templates for Administrators - Todd Schoen, UGS		
	Teamcenter Express Installation/Setup for Administrators - Abhijit Dastidar, UGS		



Agenda



- ▶ User interface
 - Target users - Considerations for interface design
 - ▶ Roles
 - ▶ Strategy
 - ▶ Target market
 - Components of the interface
 - Utilities
- ▶ Use cases
 - Search for parts (item, standard)
 - Set the revision status



Defining Teamcenter Express



- ▶ Mid-market consulting



Teamcenter Express

Opportunity & Key Purchase Criteria



- ▶ Crimson Consulting survey of 287 mid-market manufacturing companies customers in Q2 2005 showed:
 - ▶ Current PDM usage
 - ▶ 59% are using Windows file management or have no identified mechanism for PDM
 - ▶ Plans to implement PDM
 - ▶ 48% are considering use of a PDM system
 - ▶ 22% are in process of evaluating/piloting a PDM system
- ▶ Key Purchase Criteria
 - ▶ Low Total Cost of Ownership was identified as the most important purchase criteria (60% of respondents)

Source: Crimson Consulting Survey of 287 mid-market manufacturing companies Q2 2005

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Customer Tasks and Processes



corbis.com



design

shop floor

admin

purchasing

planning

supplier

marketing

- Create CAD models and BOMs
- Initiate new projects
- Initiate workflow processes
- Conduct design reviews
- Create specifications
- Download images
- Review, annotate, mark-up
- Check, approve, release

single source of product data needed

served.



Defining Teamcenter Express



▶ Creating roles

The screenshot shows the 'Engineer (Robert)' role definition page in Teamcenter Express. The page is divided into several sections, each with a role name in a white box and a list of responsibilities in a blue box. The roles and their responsibilities are:

- Designer**:
 - Requirements definition
 - Creates and analyzes solid models
- Manufacturing Planner**:
 - Aggressive product schedules
 - Trying to gather true requirements
- Manufacturing Engineer**:
 - Adheres to company and industry standards
 - Works with prototyping efforts during new product introduction
- Purchasing**:
 - Engineering Theory
 - Age - Range 25 to 50
 - Salary: \$50,000
- Supplier**:
 - Design
 - Change Documentation
 - Product Management
- Engineering Manager**:
 - Develops
 - Creates and files CAD/CAE data, BOMs
 - Creates ECRs, participating in ECOs
 - Creates Markups
- Engineer**:
 - Responsibilities
 - Creates the products that meet marketing requirements and vision
- VP of Engineering**:
 - Review
 - Documentation (Office) for
 - storage in Teamcenter
- Engineering System Administrator**:
 - OS Interaction
 - anned data for a pcf

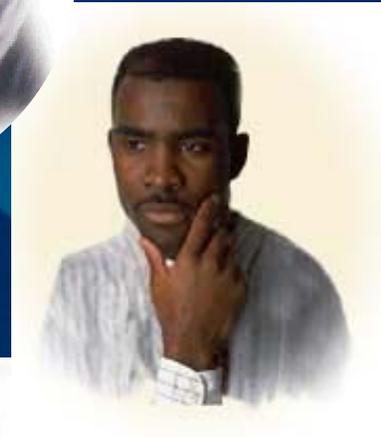
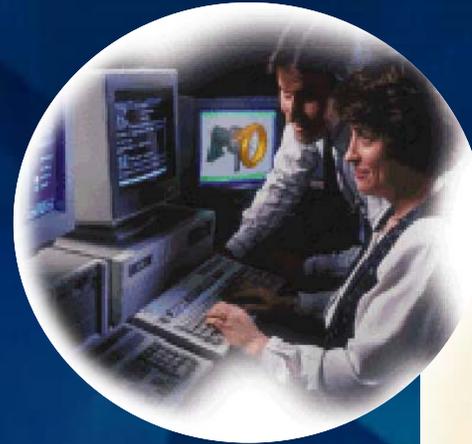
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User Roles in the TcX Organization



- ▶ Engineers (Author)
 - Designer
 - Manufacturing Engineer
- ▶ Managers (Professional)
 - Engineer
 - Engineering Manager
 - VP Engineering
 - Manufacturing Planner
 - Suppliers
- ▶ Others (Consumer)
 - Purchasing
 - Purchasing Assistant
 - Marketing Manager
 - Office Admin.





Vision and Strategy

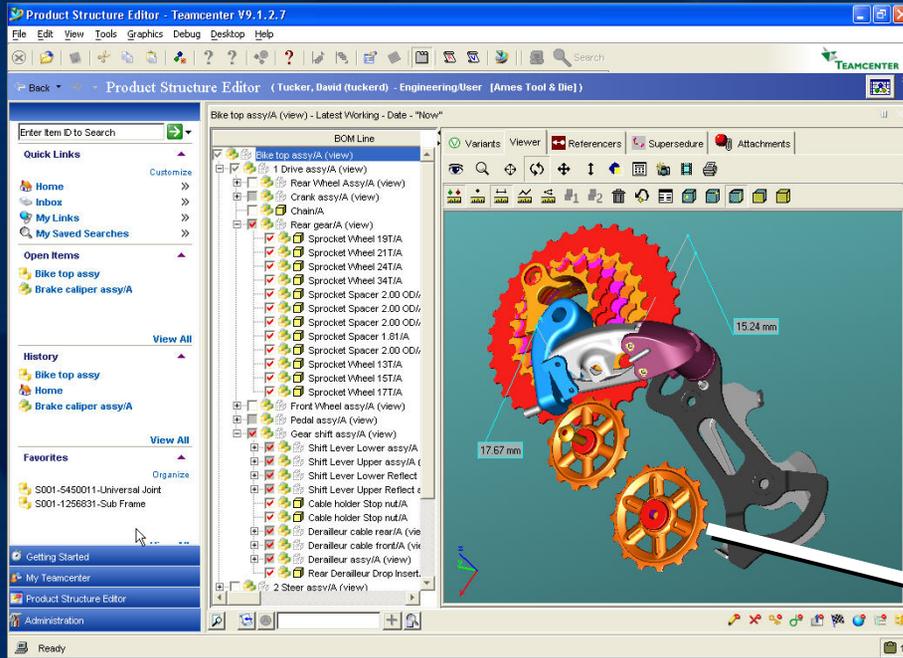


- ▶ **Teamcenter Express** will be the PLM system of choice for mid-market
 - Easier to implement, and support
 - Enabler for value-add services and solutions
 - Competitively differentiated and proven
 - Developed and supported by the PLM leader
 - Scalable to Teamcenter PLM portfolio



Teamcenter Express

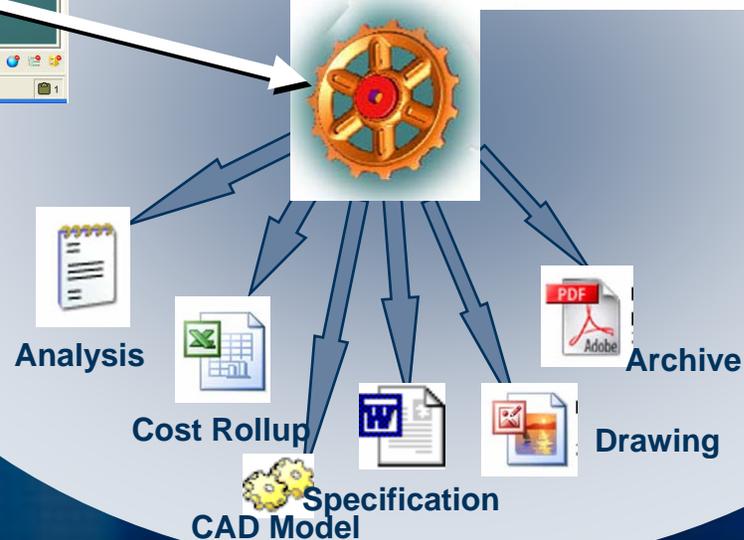
Item Data Management



Part Number/Rev



- ▶ Data managed as unit
 - Item/Revision, CAD model, drawing, assembly, docs, and so on
 - Where used, where referenced, and so on





Teamcenter Express

Item Types



- ▶ Item 
 - Use to create all product parts
- ▶ Standard 
 - Use to create purchased or standard components
- ▶ Document 
 - Use to hold all types of documents (such as, MS Word, Excel, and PowerPoint)
- ▶ Eng_Order 
 - Use to hold all parts involved in an engineering change



Dataset Types



- ▶ Familiar types available
 - Office
 - ▶ Word
 - ▶ PowerPoint
 - ▶ Excel
 - CAD
 - ▶ NX
 - ▶ Solid Edge
 - ▶ AutoCAD
 - ▶ And so on
- ▶ In addition
 - FEMAP – Windows-based pre- and post-processor for FEA
 - PCF – Packaged Collaboration File

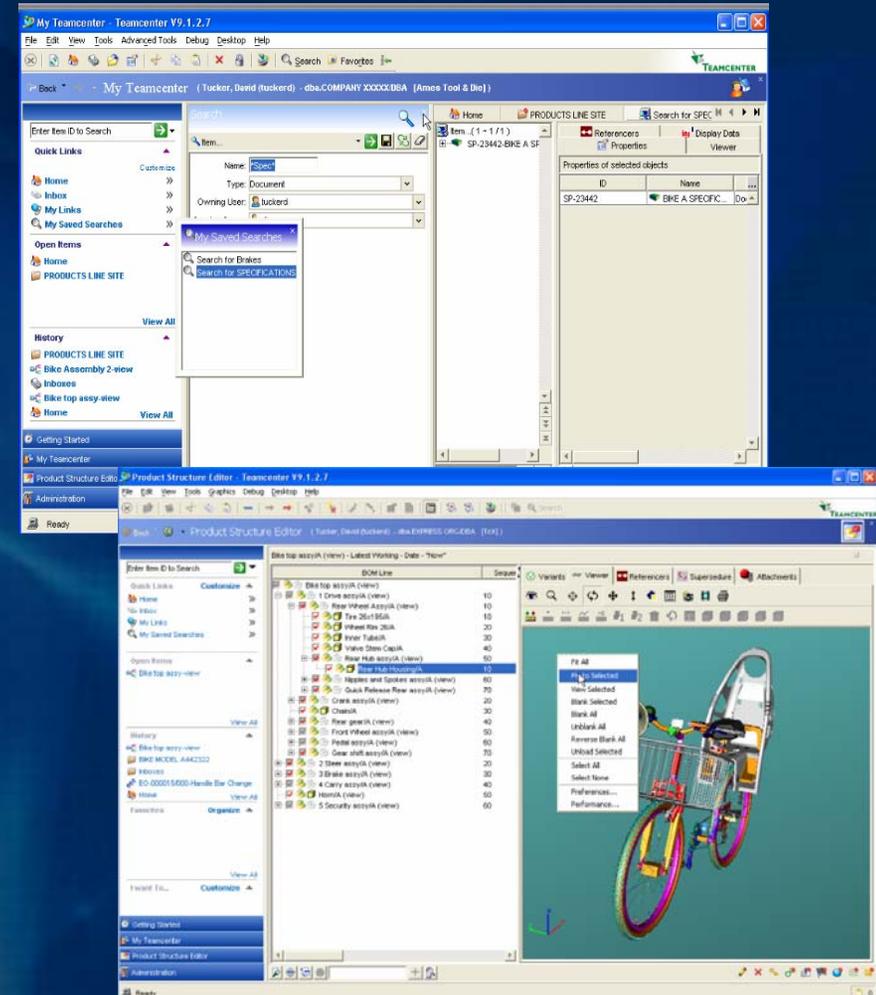


Teamcenter Express

Everyday Tasks and Processes



- ▶ Teamcenter Express has been designed to apply preconfigured best practices to everyday engineering tasks and processes



“How do I ...?”

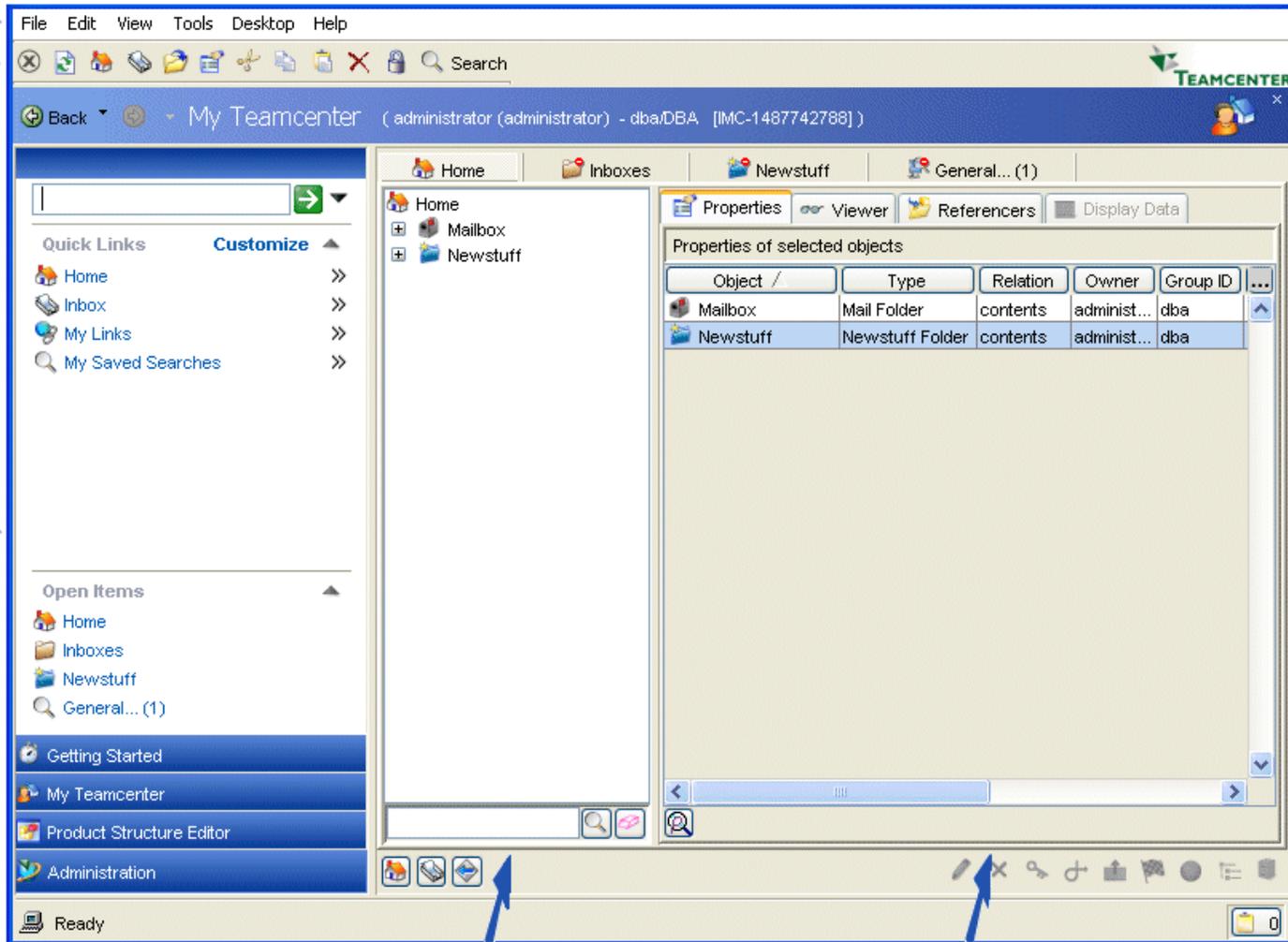
- *Individual tasks*
 - ▶ Create a new project
 - ▶ Perform a 3D mark-up
- *Group tasks*
 - ▶ Release an assembly
 - ▶ Create an engineering order
- *Company-wide processes*
 - ▶ Participate in a design review
 - ▶ Approve an engineering order



Components of the Interface



Menus
Buttons



Tabs

Navigator panel



Explorer panel

Data panel





Demo



Product Demonstration



User Interface (Simplified)



- ▶ Re-skinned rich and Web clients with Outlook 2003 style
 - Consistent look and feel for rich and Web client
 - New navigation panel to make common functionality more accessible
- ▶ Teamcenter Express-driven UI enhancements
 - Added “I want to...” items to invoke wizards to help users get started on common tasks
 - Added “My Saved Searches” to help users find their parts or files when transitioning from a file-based system to PDM

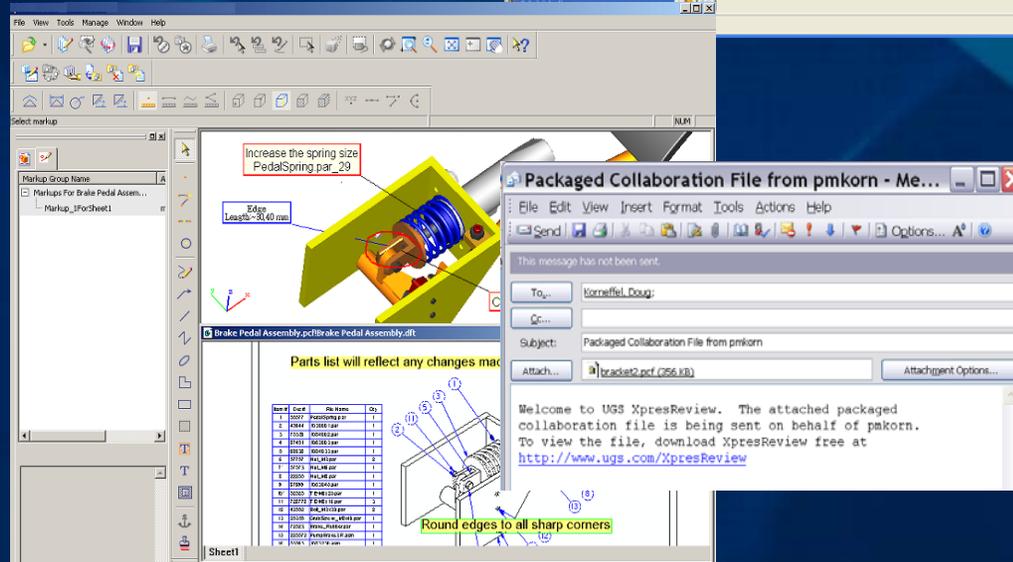
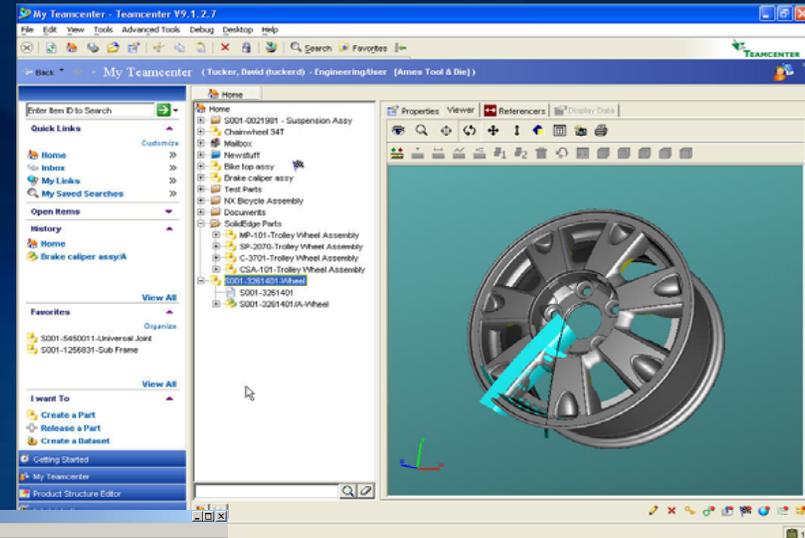


Teamcenter Express

Standard Viewing/Collaboration



- ▶ Embed standard Teamcenter Visualization within the Teamcenter Express client
- ▶ Deliver XpresReview as the Packaged Collaboration File viewer/creator
- ▶ Support for other formats





Demo



Product Demonstration



Utilities



- ▶ **Status Manager**
 - A way to move a product through its life cycle as an alternative to using workflow
- ▶ **Dataset Properties**
 - Allows you to get directly to dataset properties instead of first going to named references
- ▶ **Item Rename**
 - Allows you to rename an item and item revision in one operation
- ▶ **Better Item Master Data and Item Revision Master forms out of the box**



Teamcenter Express – My Searches



The screenshot displays the Teamcenter Express Web interface in a Microsoft Internet Explorer browser window. The main content area shows search results for the query "My Parts (WIP)", displaying 30 items out of 295. The results are presented in a table with columns for Name, Type, Owner, Group ID, Date Modified, CO, Release Status, and Description. A "My Saved Searches" dialog box is open, showing a list of saved searches including "My Parts (WIP)" and "My Parts (Released)".

Search Query: My Parts (WIP)
Results: Viewing 30 after scanning 30 of 295 objects found

Name	Type	Owner	Group ID	Date Modified	CO	Release Status	Description
Fork Inner Tube	Item	tuckerd	dba	14-Jan-2005 12:39			Fork Inner Tube
dummy_for_cad_attr_mapping-dummy_name	Item	tuckerd	dba	10-Jan-2005 11:42			
Deraillieur Sprocket Lower assy	Item	tuckerd	dba	14-Jan-2005 12:30			Deraillieur Sprocket Lower assy
Sprocket Wheel 13T	Item	tuckerd	dba	14-Jan-2005 12:19			Sprocket Wheel 13T
Crank Bearing Outer	Item	tuckerd	dba	14-Jan-2005 12:17			Crank Bearing Outer
Sprocket Spacer 2.00 OD	Item	tuckerd	dba	14-Jan-2005 12:19			Sprocket Spacer 2.00 OD
FD Frame Clamp Plastic Fixed	Item	tuckerd	dba	14-Jan-2005 12:26			FD Frame Clamp Plastic Fixed
Seat Rail Grip Upper	Item	tuckerd	dba	14-Jan-2005 12:59			Seat Rail Grip Upper
S001-4261814-Caliper	Item	tuckerd	dba	09-Aug-2005 19:44			Brake Caliper
Hand Grip	Item	tuckerd	dba	14-Jan-2005 12:54			Hand Grip
Saddle	Item	tuckerd	dba	14-Jan-2005 13:00			Saddle
CAD Integrations-001	Item	tuckerd	dba	23-Feb-2005 14:22			
S001-5450011-Universal Joint	Item	tuckerd	dba	09-Aug-2005 19:46			Universal Cross Joint
Key Points Part	Item	tuckerd	dba	14-Jan-2005 12:50			Key Points Part
Saddle Clamp assy	Item	tuckerd	dba	14-Jan-2005 12:58			Saddle Clamp assy
FD Clamp Swing Filler	Item	tuckerd	dba	14-Jan-2005 12:25			FD Clamp Swing Filler
Brake Arm Right	Item	tuckerd	dba	14-Jan-2005 12:45			Brake Arm Right
Frame assy	Item	tuckerd	dba	14-Jan-2005 12:51			Frame assy
S001-3261801-Tire	Item	tuckerd	dba	09-Aug-2005 19:43			Radial Tire
Fork Upper Assy	Item	tuckerd	dba	14-Jan-2005 12:38			Fork Upper Assy

My Saved Searches

- My Parts (WIP)
- My Parts (Released)



Demo



Product Demonstration



UGS

*Transforming the
process of innovation*



Q&A

Thank you

