

keytech Software GmbH



Necessity of system integration in times of continuously growing information



keytech Software GmbH

Key figures



Foundation:	1994
Employees:	55
Locations:	3 x Deutschland, 1 x USA
Turnover:	5 Mio.
Customers:	720

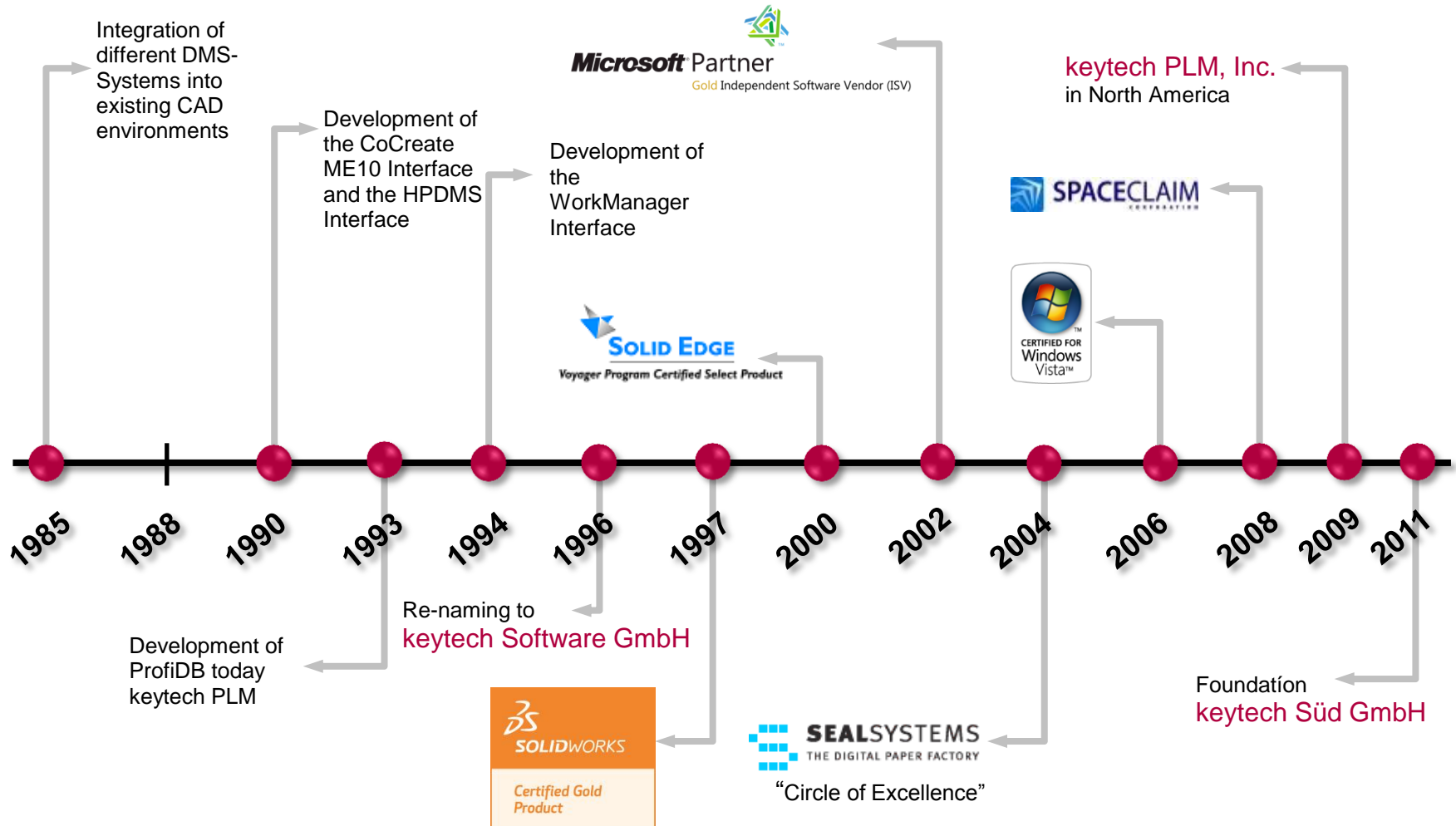


Member of WVIB



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The story



Focused



- 100% focus on customer solutions
- 90% of the employees are technically oriented
- Clear product focus

Independent



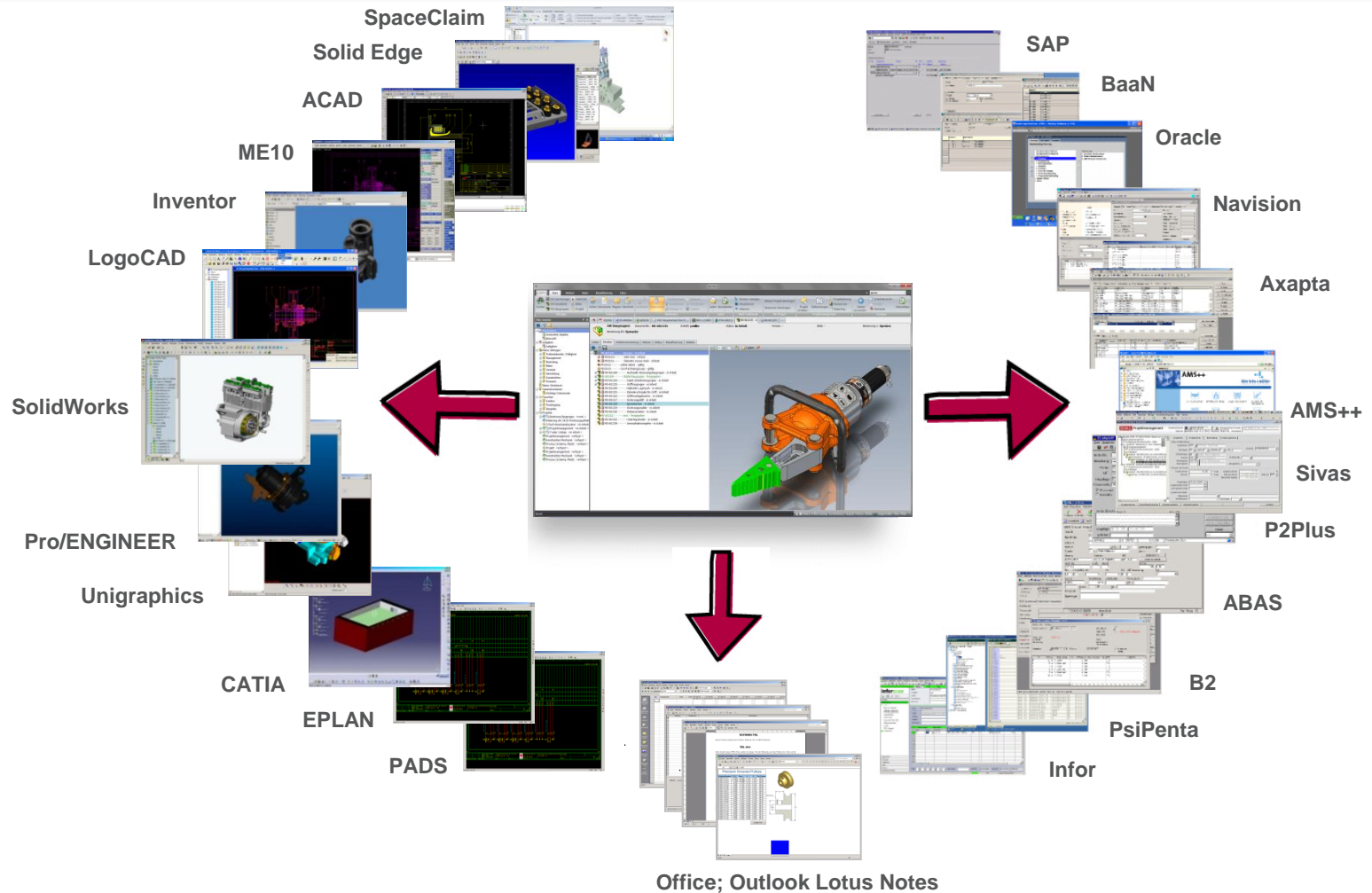
- Not dependent from big CAD or ERP manufacturers
- No CAD or ERP manufacturer dictates the product strategy
- One product – no targets overlap

Secure



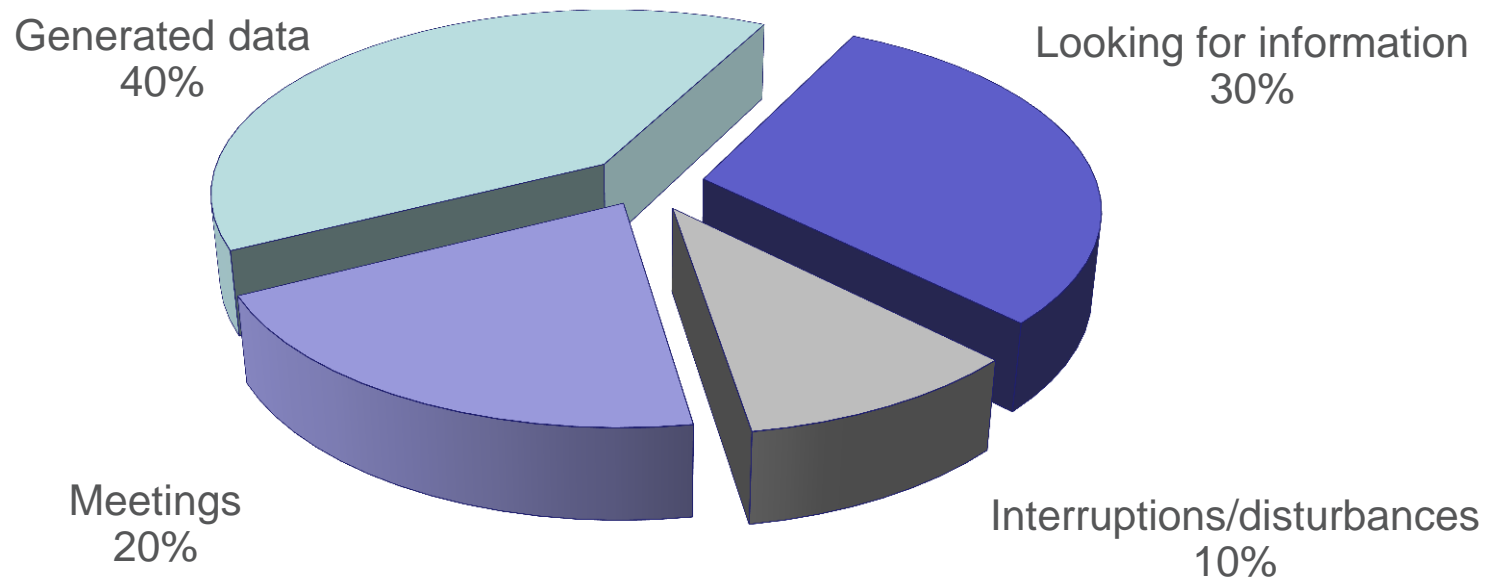
- First Microsoft Gold Certified PLM Partner
- Data management and – integration is our core business
- German Product
- Profound partnerships with leading CAD manufacturers

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- Employees get 50%-75% of the relevant information directly from other users.
- More than 80% of the digital information is on the individual hard disc or within private folders.
- More than 95% of the email correspondance is saved in private places which are not visible for others
- The single people own the knowledge – if they leave the company, they take the knowledge with.

- Use of work time



- Information should only be gathered once
 - A large part of the information is generated in data generating systems like M-CAD, E-CAD, Office. The task of a PLM system is to read out this information and supply all connected applications with this information for further processing.
- The PLM system is a classification system that ensures controlled file storage and removes the responsibility from the user for filing and retrieving files.
- The PLM system completely has to be integrated into the customer's environment and make life easier for the users.

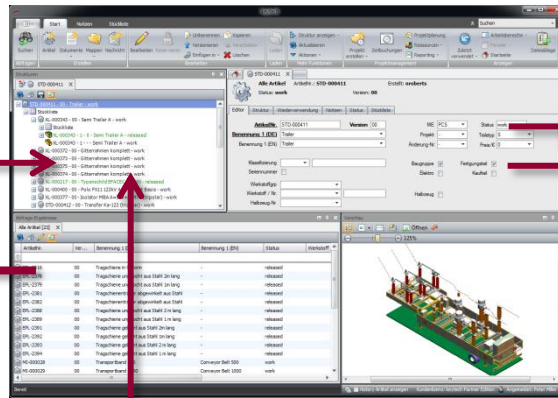
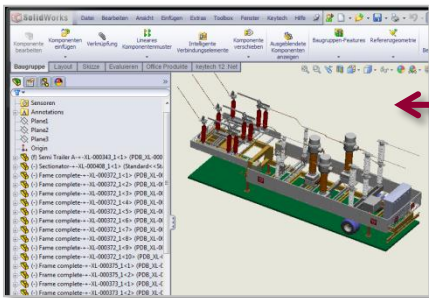
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Non-recurring information gathering and management

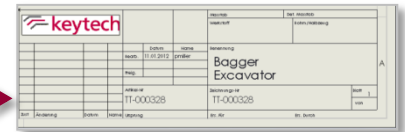


- Transfer of articles and parts lists

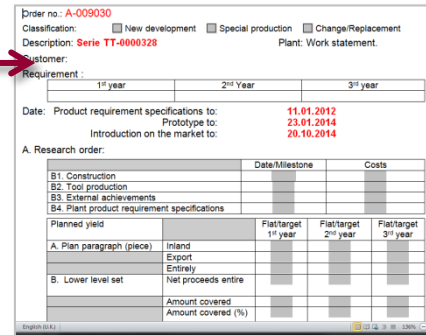
CAD



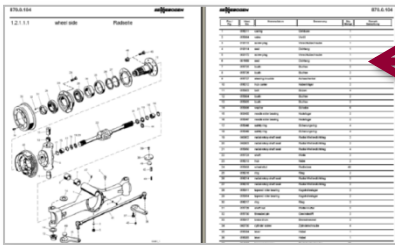
CAD



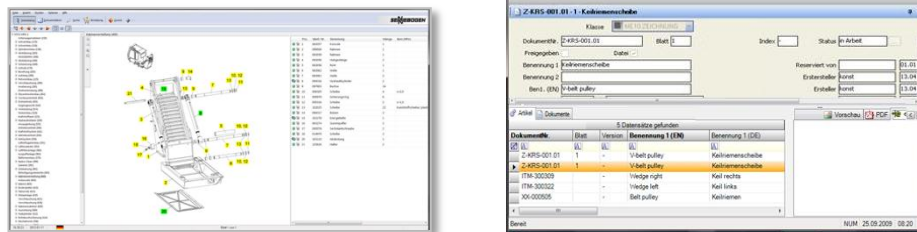
Office



Kataloge



ERP

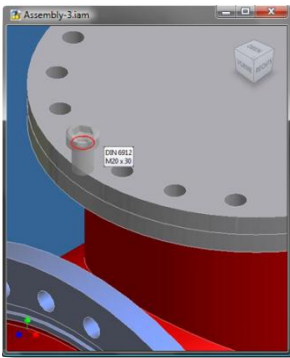


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... within the connected systems



Recognition of standard parts



Project planning

Name	Complete	Budget	Time
3-Port Hotrunner System <work>	0%	Planned works not sufficient	Not in fr
Presales <work>	0%	No work planned.	Time fra
Proposal	0%		Not acc
Order placement	0%		Not acc
Project Management <work>	0%	No work planned.	Not in fr

Task	Time
Concept and Dimensioning	0,5 Stunden
Zeitrufen	1 Stunde
Zeitbuchungen	1,5 Stunden
Zeit buchen	2 Stunden
Konstruktion Mechanik <work>	2,5 Stunden
Process (Schema, P&ID) <work>	
Process plan (P&ID)	

Direct information from ERP

No.	Artikel	Bezeichnung	Dokument	Version	Typ	Stufe	Lang	Status	Datenname
2	STD-00036	Clamp handle ME10	STD-00036	0	SLODF	edw	german	work	Clamp handle ME10
6	STD-00036	Clamp handle ME10	STD-00036	0	SLODF	edw	german	work	Clamp handle ME10
7	STD-00036	Clamp handle ME10	STD-00036	0	SLODF	pdf	german	work	Clamp handle ME10
8	STD-00036	Clamp handle ME10	STD-00036	0	SLODF	pdf	german	work	Clamp handle ME10
11	STD-00036	Clamp handle ME10	STD-00036	0	SLODF	SLODF	german	work	Clamp handle ME10
12	STD-00036	Clamp handle ME10	STD-00036	0	SLODF	SLODF	german	work	Clamp handle ME10
13	STD-00036	Clamp handle ME10	STD-00036	0	SLODF	SLODF	german	work	Clamp handle ME10
14	STD-00036	Clamp handle ME10	STD-00036	0	SLODF	SLODF	german	work	Clamp handle ME10

Email management & research

Projekt: Trennschalter ... x
 Ident-Nr.: P0005
 Erstellt: dms

Projektübersicht

Archivierte E-Mails

Morgen (8 items)

Heselmec Inc. INA Engineering [ina@cust...]
 FW: Change of building group GCB INA Engineering [ina@cust...]

3-port Hotrunner System - Correction
 Phoenix Customer Service
 Geendet: 08.09.2011 15:44:06
 An: pmiller@customer.com
 Projekt: Trennschalter - P0005
 Original Mail.msg
 hydraulik_Zylinder_Jompelet++hyr@136t2_essm
 Coiff.lamp
 hydraulik_Zylinder.lamp

Change Order

Description:
 Problem with yellow cylinder
 (see Cooling plate)

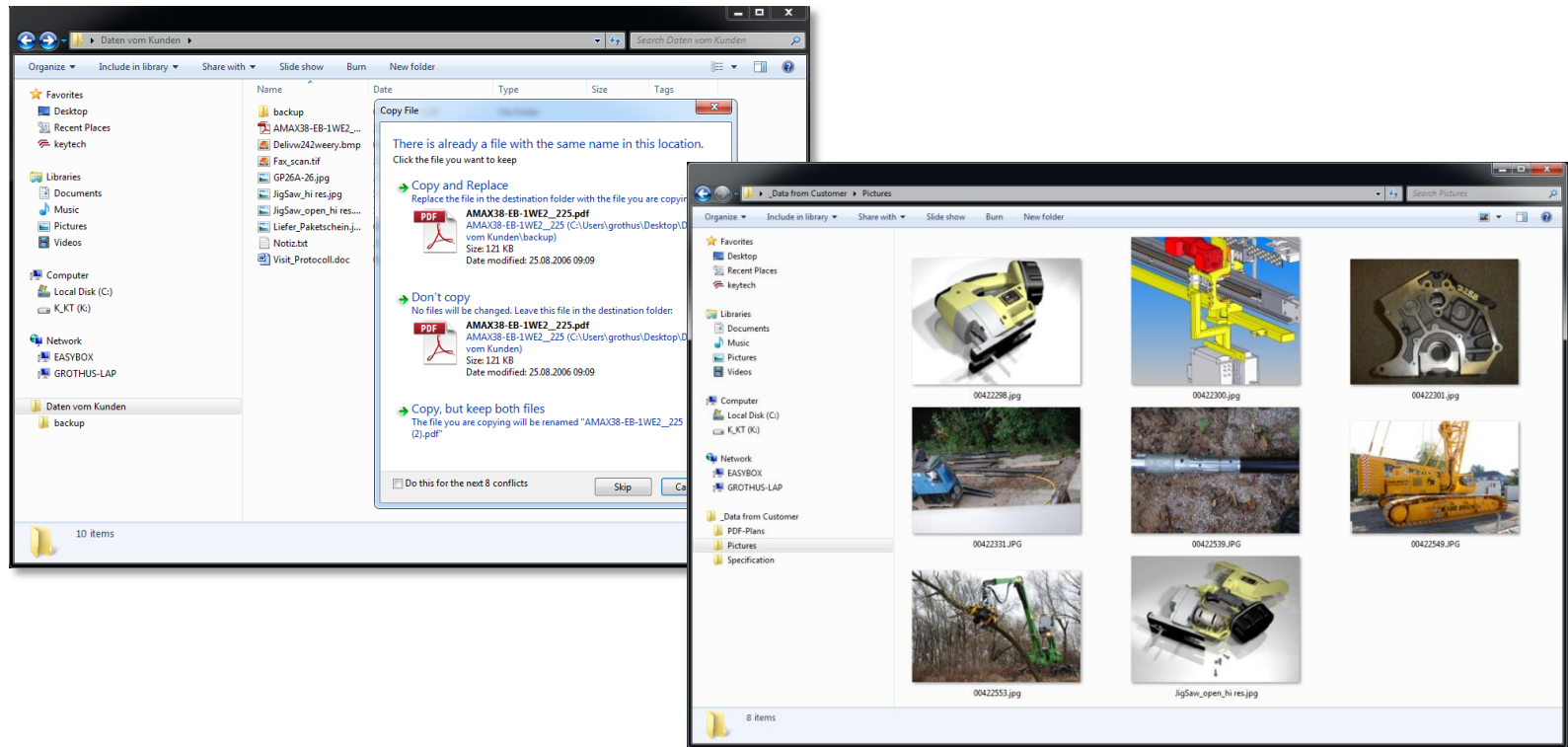
Assembly Cooling Plate update and add Ring (X&R00000)
 as Connector

Shortcut from Outlook folder to keytech files

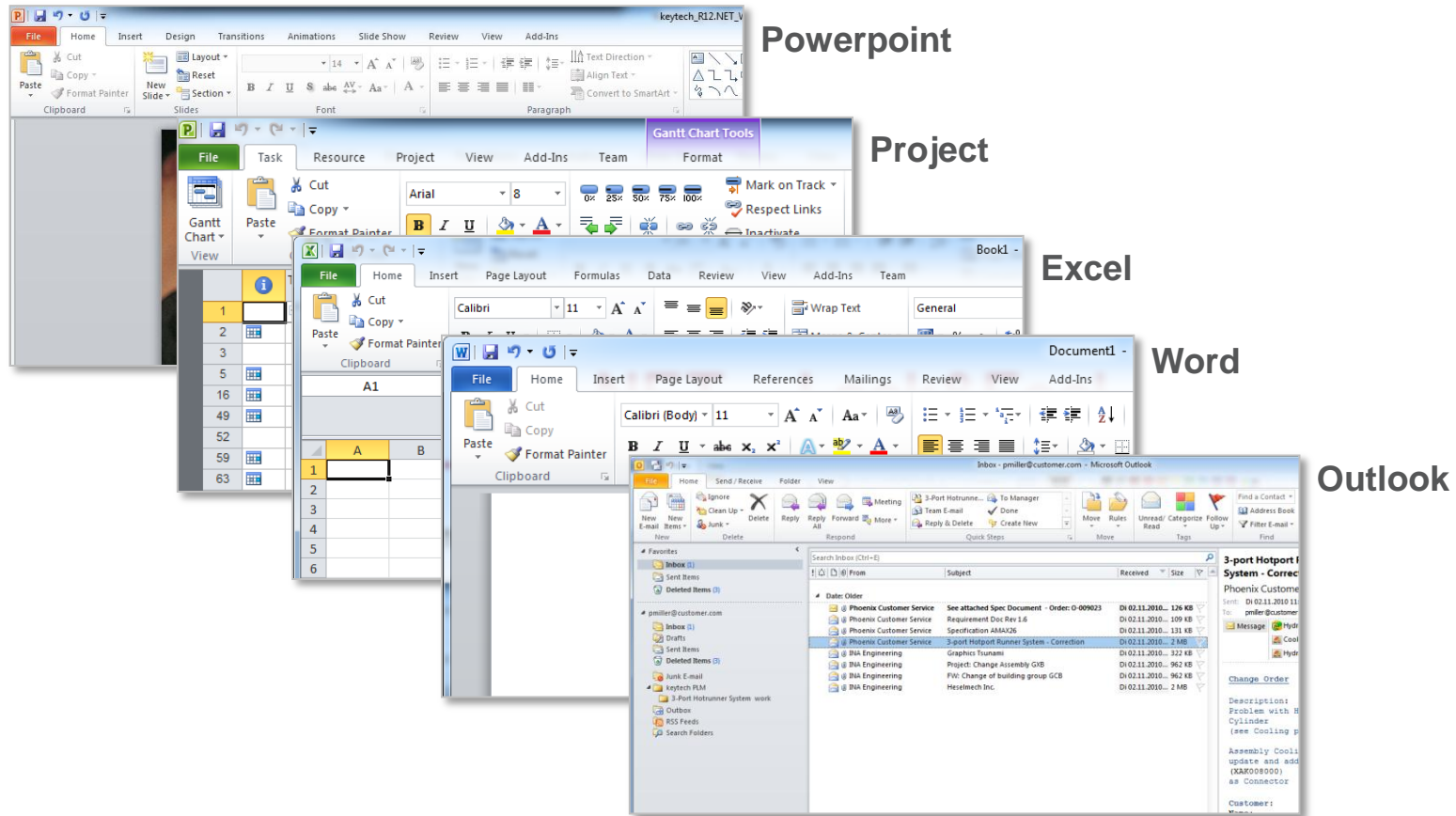
Emails that have already been filed are highlighted

- The same „Look and Feel“ in all applications allows the employees to transfer their previous approach directly to the keytech applications.
- A high acceptance is guaranteed.
- Working speed is increased.
- Security and transparency when handling all company data is guaranteed.

Windows



Microsoft Office Applications



Powerpoint

Project

Excel

Word

Outlook

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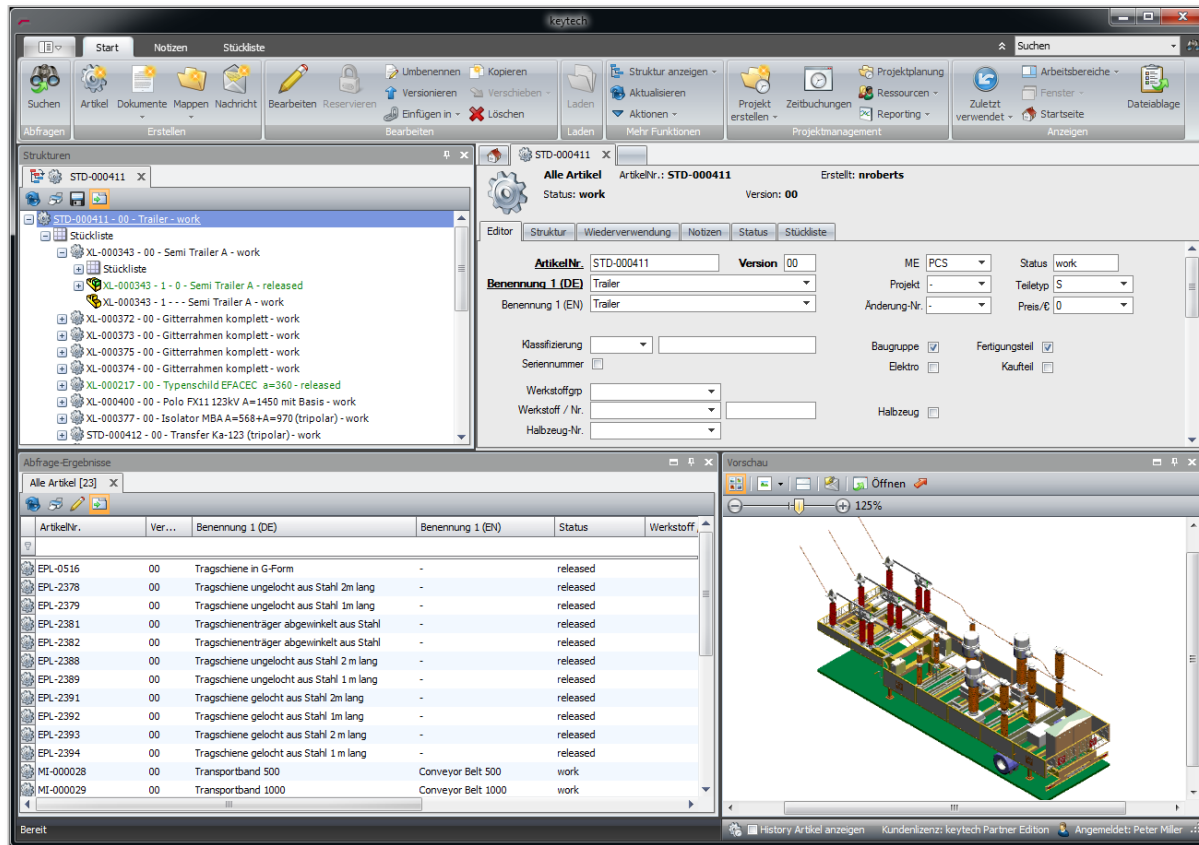
keytech – integration into the customer's environment

2D/3D CAD Applications

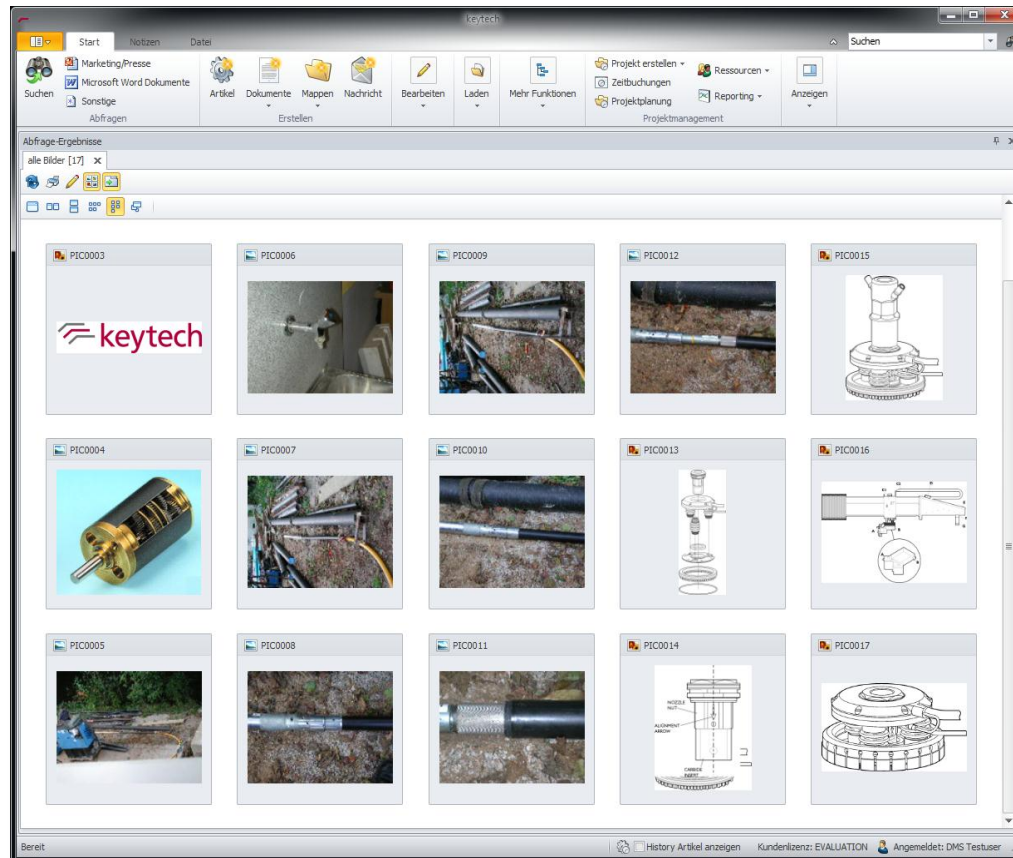
The image displays four overlapping CAD software interfaces:

- AutoCAD:** Shows the 'Drafting & Annotation' workspace with a ribbon menu including Home, Insert, Annotate, Parametric, View, Manage, Output, Plug-ins, Online, Vault, Express Tools, and keytech.
- Inventor:** Shows the 'Assemble' workspace with a ribbon menu including Place, Create, Copy, Make Layout, Mirror, Shrinkwrap, Component, Constrain Assemble, Move, Rotate, Bill of Materials, Parameters, and Edit Fact.
- Solid Edge:** Shows the 'Home' workspace with a ribbon menu including Features, PMI, Inspect, Tools, and View. It includes options like Sketch, Create Part, Assemble, In-Place, Systems Library, Publish Virtual, Fastener System, Motor, Structure Editor, and Simulate Motor.
- SolidWorks:** Shows the 'Baugruppe' workspace with a ribbon menu including Layout, Skizze, Evaluieren, Office Produkte, and keytech 12. Net. The interface includes a tree view on the left listing components like Sensoren, Annotations, Plane1, Plane2, Plane3, and Origin, and a 3D model of a semi-trailer assembly on the right.

- The surface adapts to the needs of the user.



- The surface adapts to the needs of the user.



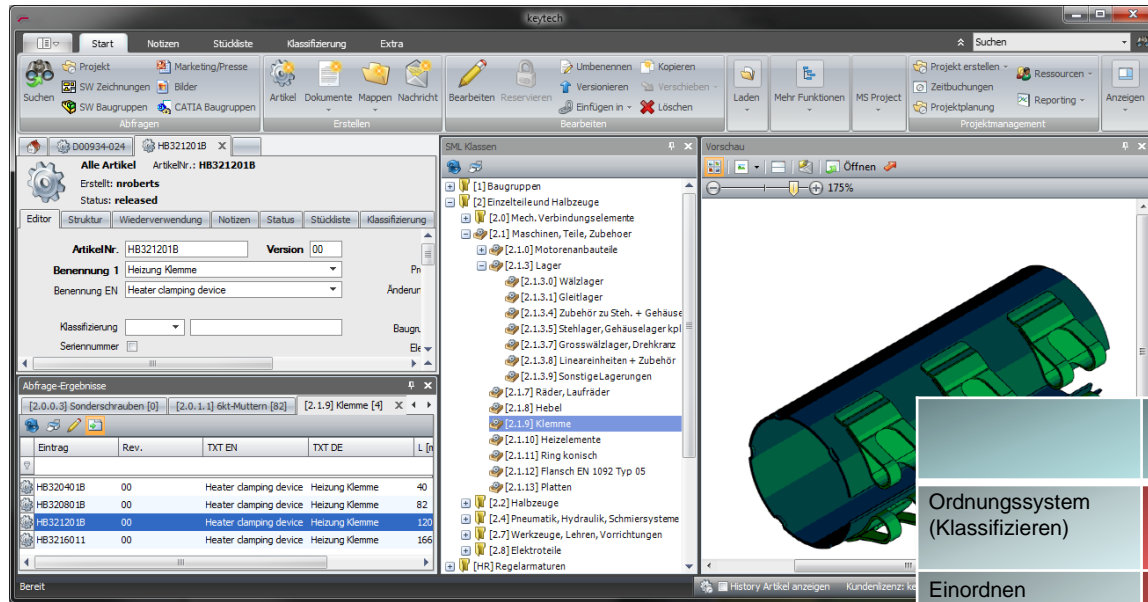
Cooperation targets



- Graphical support of the search functions
- Support of Purchineering in every stage of the product development
- Cost transparency of the engineering department
- Automatic provision of analysis results for adjoining departments (purchase, product planning, ...)

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From classification to intelligent finding



	Traditionell Klassifizieren	Semiauto Klassifizieren	Intelligent Finden
Ordnungssystem (Klassifizieren)	--	--	++
Einordnen (Klassieren)	--	O	++
Übereinstimmung Klassierer/Nutzer	O	O	++
Bedienung/Schulung	+	++	-

Traditionell Klassifizieren:
 -- Aufbau eines Klassensystems
 -- Hoher Aufwand
 O Mittel
 + Geringe Schulung Allerdings Kenntnis des Klassensystems notwendig

Semiauto Klassifizieren:
 -- Aufbau eines Klassensystems
 O Grobgliederung Automatisch Feinstrukturierung Manuell
 O Mittel
 ++ Einfache Bedienung Allerdings Kenntnis des Klassensystems notwendig

Intelligent Finden:
 ++ Kein Aufwand
 ++ Kein Aufwand
 ++ Hoch
 - Nutzer muss strategisch vorgehen Intensive Schulung

Quelle: Cadenas

Business Care

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Intelligent finding

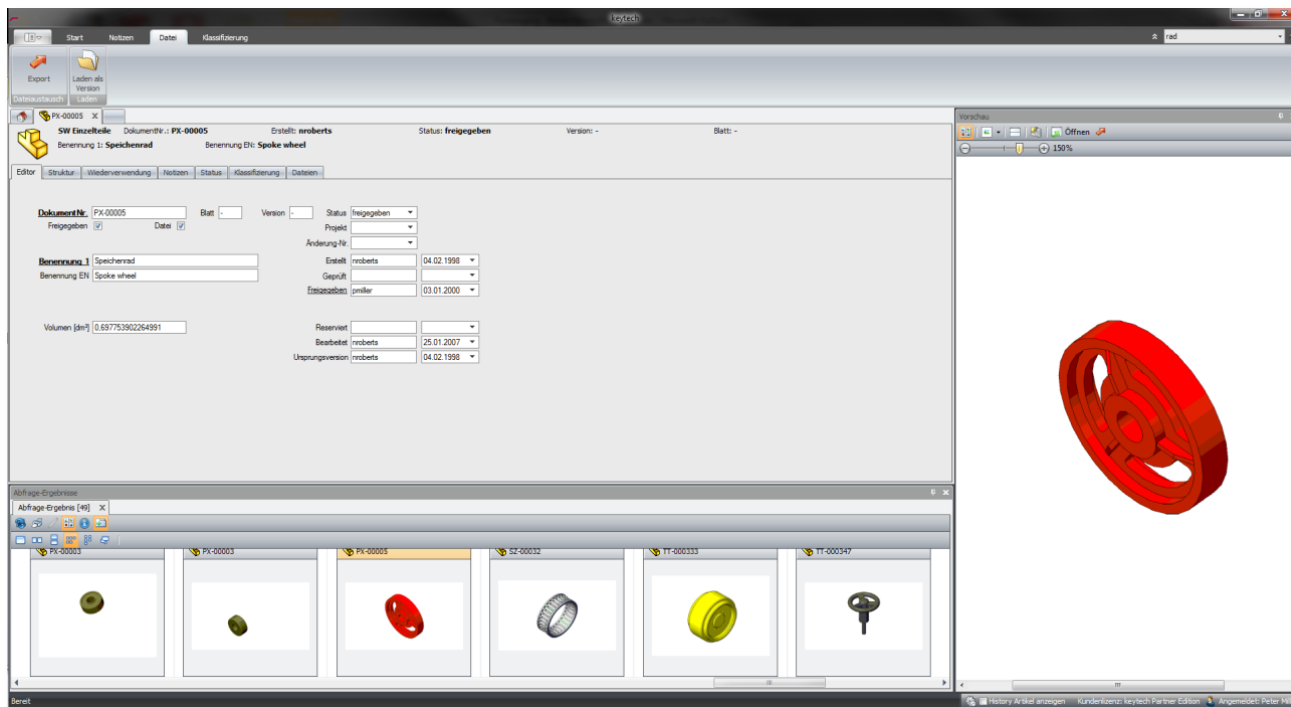


The screenshot displays the keytech software interface, which is used for managing CAD data and performing intelligent searches. The main window is titled "keytech" and features a menu bar with "Start", "Notizen", "Stückliste", "Klassifizierung", and "Extra". The interface is divided into several panes:

- Left Pane:** Contains metadata for the current article, including "Alle Artikel", "ArtikelNr.: HB321201B", "Erstellt: nroberts", and "Status: released". It also shows classification information and a table of search results.
- Middle Pane:** Displays a hierarchical tree structure of "SML Klassen" (SML Classes), such as "Baugruppen", "Einzelteile und Halbzeuge", "Mech. Verbindungselemente", etc.
- Right Pane:** Shows a 3D preview of a selected part, with a zoom level of 175%.
- Bottom Pane:** A search results window titled "Suchen" (Search) is overlaid. It shows search options and a list of results. The search criteria include "Skizzen Suche ausführen" and "Skizzenuche (Größenverhältnis relevant)". The results table is as follows:

Rang	Ähnlichkeit	Vorschau	Firmenlog...	Katalog	Name	Beschreibung	Datum	X (SIZE)	Y (SIZE)	Z (SIZE)	ERP-Nr.
1	89%			Ganter	DIN 950.1	Handräder mit Nabennut, mit ...	05.05.2...	124.62...	109.34...	124.60...	
2	89%			Ganter	GN 950.1	Handräder ohne Nabennut, ...	20.04.2...	124.58...	109.47...	124.67...	
3	85%			Ganter	GN 707 ST	Geteilte Stelringe, Stahl	20.04.2...	64.733...	64.992...	15.000...	
4	85%			Ganter	GN 707 NI	Geteilte Stelringe, EDELSTAHL	20.04.2...	64.733...	64.992...	15.000...	
5	84%			Ganter	GN 706 ST	Geschlitzte Stelringe, Stahl	20.04.2...	64.823...	64.996...	15.000...	

- Direct feedback to keytech



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Purchineering - Make or Buy Report



The screenshot displays a CAD environment with a 3D model of a bolt and nut assembly. A 'Make or Buy Report' is overlaid on the right side of the screen, listing various components with their best prices and quantities. The report is titled 'Zu den Suchergebnissen' and includes a table with columns for 'Bezeichnung' and 'Beste Preis von den gefundenen Teilen'.

Bezeichnung	Beste Preis von den gefundenen Teilen
82307105 capvt	146 €
82303007 capvt	442 €
82304705 capvt	316 €
82302702 capvt	816 €
82308101 capvt	741 €
82307103 capvt	816 €
82307115 capvt	497 €
82307101 capvt	416 €
82308101 capvt	108 €
82308100 capvt	108 €
82307117 capvt	416 €
82302003 capvt	416 €
823084174 capvt	196 €
823084175 capvt	196 €
82308114 capvt	216 €
82308113 capvt	147 €
82307101 capvt	316 €
82307102 capvt	116 €
82308105 capvt	220 €
82308103 capvt	220 €

The 'Make or Buy Report' also includes a list of components with their respective catalog information and matching percentages:

- HTB 3165 500 Flachvorspannen 3-HE für Griffe (95% Übereinstimmung)
- HTB WFB-0205 L 9 Bronze Platte 8 Winkel Platte (95% Übereinstimmung)
- HTB MES-726 MES-640 Stock Flat-Aluminium Steel and Aluminium Stock (95% Übereinstimmung)
- HTB RBZ008 Typ RBZ mit gelbem Aufzeichnung (95% Übereinstimmung)
| HTB MICHHAUD_chauffe Transmission MICHHAUD Chauffe C2-2504X1108-DEL Mobilan E1-BAGL BAGLUE D'ETANCHERIE POUR ANDRE TOURNANT - INTRIEUX NBR (95% Übereinstimmung) |
| HTB FRB-255 FRB-245 Ball Bearing Double Shielded Ball Bearings (95% Übereinstimmung) |

- Availability



- Graphical search for company parts thus increasing reuse
- Reducing effort for classification
- Supports **Purchineering** in every stage of the development
- Results of **Make or Buy** analysis are together with component information automatically transferred to ERP

Thank you for your attention!

