World class ERP for the Print Industry





- 1. All in one system
- 2. Workflow
- 3. Create quotation
- 4. Describe a job
- 5. Job configuration
- 6. BOM & routes
- 7. Send a quotation
- 8. Multiple prices
- 9. Commercial print
- 10. Job ganging
- 11. Scheduling
- 12. Shop floor control
- 13. Cost control

All in one system

DynamicsPrint is build on Microsoft's world class **ERP system Dynamics 365**

Microsoft Dynamics 365 is an enterprise resource planning (ERP) solution that is simple to learn and use so you can deliver value faster, take advantage of business opportunities, and drive user involvement and innovation across the organization.

With comprehensive capabilities for financial, human resources, and operations management, in addition to print industry capabilities, it provides the agility you need to expand business opportunities, modify processes, and differentiate your services.



With DynamicsPrint you get all of the above plus a system tailored for the print industry.

Compliance Management

- Compliance Center
- · Country-specific functionality
- · Audit trails and access control
- · Embedded workflow capabilities

Collaborative Workspace

- Enterprise Portal based on SharePoint technology
- Integrated unified communications

Mobility

- Mobile Sales Assistant
- General ledger
- · Accounts receivable and payable

Financial Management

- · Bank management
- Fixed assets
- · Shared services support
- Cost accounting
- · Intercompany accounting and consolidation

Manufacturing

Finite and infinite capacity and materials planning

Job scheduling and sequencing

Work order management with

Sales and Marketing

Sales force and marketing automatic

Lead and opportunity management

· Resource management

· Shop floor management

Product configuration

Quality management

Lean manufacturing

job costing

Business Intelligence and Reporting

- · Standard, ad-hoc, and analytical reports with Microsoft SQL Server® Reporting Services
- · RoleTailored, predefined, multidimensional data cubes
- Dashboard views of KPIs
- Integration with PerformancePoint Server

DynamicsPrint

Powered by Microsoft Dynamics 365

Service Management

- · Service orders and contracts
- · Service calls and dispatching
- · Repair management
- Service subscription

Human Resource Management

- · Organizational and workforce management
- · Recruitment and selection
- · Employee development and performance
- Skills mapping
- Training
- Expense management
- · Employee self-service portal

Supply Chain Management

- · Demand forecasting
- · Intercompany trade
- · Inventory management

- · Vendor self-service portal · Order promising
- Business-to-business
- trading partner integration

- Multi-site warehouse management
- · Order handling with trade

- RFID-enabled

Project Accounting

Telemarketing and telesales

 Customer self-service portal Document management

Sales management

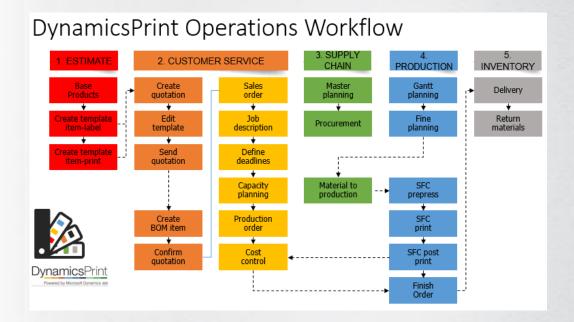
- · Project finances and invoicing
- · Project cost control · Revenue recognition and work
- in progress (WIP) · Integration with production
- · Consultant self-service portal



Operations workflow

DynamicsPrint solution is developed to meet the unique needs of the print industry.

Built on the Microsoft Dynamics 365 platform, DynamicsPrint delivers integrated functionality that spans the full print operation; from financial management to the print floor. The solution handles all aspects of a print job, from estimation to scheduling, shop floor to fulfilment, and DynamicsPrint is JDF/JMF certified. Designed specifically for the print industry, DynamicsPrint is the latest version of Microsoft's proven ERP solution for discrete and process manufacturers. It includes both industry specific and core ERP capabilities in a single, global solution. DynamicsPrint is ideal for global companies that must address multilanguage, multi-site, and multi-currency requirements.



Create a new quotation

The item is attached to a standard calculation, which holds the generic information about the product.

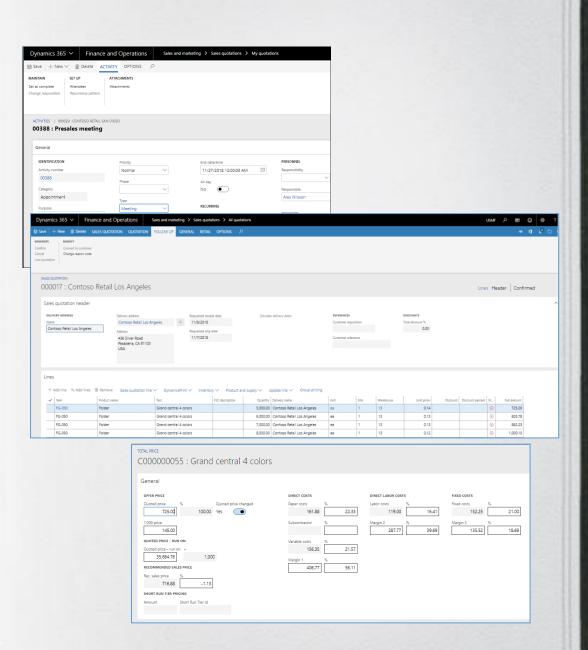
Specify an item number and a quantity, and you are ready to build the quotation calculation.

All the relevant data from the customer table are transferred to the quotation header, and all data from the standard calculation, which describes the product that you are about to configure, are equally updated into the new quote.

A quotation can contain multiple lines, so more than one product can be described. You can also have multiple variants or versions of the same product contained in one quotation.

If the customer requests changes to quantity, substrate, colors etc., in the quote, then this is achieved seamlessly in real time.

When the quote is complete, the use selects the DynamicsPrint button to continue.





Describe the job

The basic information from the standard calculation will now be updated to meet the actual request.

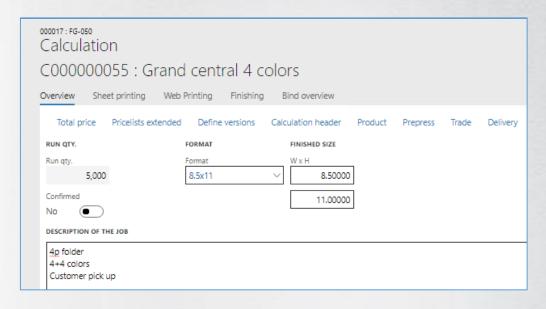
The most basic data is the quantity, the format and the number of pages.

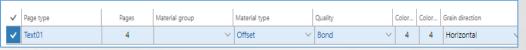
The following example shows a simple job of four pages.

Most of the fields are pre-defined, and now you can edit or add the relevant calculation data, such as paper type and number of colors.

can impose a job in multiple ways. Whether it is a book, a brochure a label or any other type of print, the system will offer the best solution to optimize the print run. In addition, all relevant alternatives from which you can choose are also presented.

With DynamicsPrint you









Job configuration

A major part of the job requirements are automatically already in the system by now.

From the example, you will see that the paper size (26"x38") has been suggested, and now DynamicsPrint takes care of the rest.

The press is selected and the cardboard (200-52) is picked from the material table. Everything is checked for logical errors. Quantities for printing and paper consumption is calculated, along with plates and ink.

If you need to modify or add information, you can do it directly from this screen.

Color specifications, information about cutting and folding is added, and time and material is calculated behind the scene.

Sheet	F	В	Paper no.	Pages	No. up	Pp./s	Passes	Paper description	Pounds
1	4	4	200-52	4	4	16	1	Chorus Art Silk Text	100

PAPER SIZE	FINI	SHED SIZE			MATERIAL THI	CKNESS	PAPER USAGE	
Size W	Wid	th in inches			Caliper		Sheets	
26.00000		8.50000			5.1	000	1,	349
Size H	Heig	tht in inches					Pounds	
38.00000		11.00000			PRINT			281
PRINT SIZE	PAPI	ER PRICE INFO	,		Run qty.	000	PLATES	
Print W	Cost	price			Factor		Plates	
26.00000		120.00				1		8
Print H	Price	e unit			Print net		Extra plates	
38.00000		1,000.00			1,	250		
	Corr	ected			Print total		Ver. plates	
	No			ı	1	349		
Passes	No.	Color ID		Description		Item nur	mber	lnk (
1	1		~	Black		0900-Ir	nk v	
1	2			Yellow		0900-Ir	nk	
1	3			Magenta		0900-Ir	nk	
1	4			Cyan		0900-Ir	nk	



BOM and route

Job details are created automatically.

Based on your own defined business rules, all operations and materials are calculated, and the BOM and route is ready for use.

Click on the "Components" button, and you can see everything which has been calculated so far.

All components have been calculated by following best practices, which have been defined by you in the system when the ERP system was initially set up and implemented.

Now the job is ready for pricing.

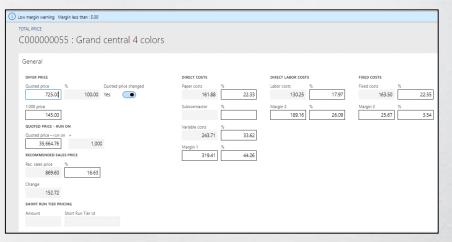
Click on the Total Price button, and you can review the key numbers and margins for the job.

All white fields can be edited, and the system will automatically recalculate all other numbers as well when edits/changes are made.

The price which is defined here, will be copied to the quotation line.

Total price Compo	nents	Tools Waste		Connect to versions	Gang productio	
Base	Sheet	F	В	Paper no.	Pages	
03200 Components 🔍	1	4	4	200-52 ~	4	

Description	Work center	Qty.	Unit	Name	Time	Total costs	Rec. sales price
Text pages 1 x 4p 4 up	02200	8.00	ea	CTP - Plates		200.00	280.00
Text pages 1 x 4p 4 up	02200	8.00	ea	CTP - Run time	1.00	62.00	86.00
Text pages 1 x 4p 4 up	08500	1.00		Buffer before print	4.00		
Text pages 1 x 4p 4 up	03200	1.00	ea	Make ready press	0.25	55.00	62.50
Text pages 1 x 4p 4 up	03200	1,349.00	ea	Run time press	0.11	24.17	27.47
Text pages 1 x 4p 4 up	03200	2.06	kg	Ink		30.95	41.27
Text pages 1 x 4p 4 up	08500	1.00		Buffer before finishing	2.00		
Text pages 1 x 4p 4 up	05300	338.00	ea	Cut after print	0.87	62.40	69.33
Text pages 1 x 4p 4 up	06100	1.00	ea	Folding make ready	0.20	18.00	28.00
Text pages 1 x 4p 4 up	03200	8,265.00	ft	Folding run time	0.32	69.93	79.47
Text pages 1 x 4p 4 up	03200	1,349.00	ea	Material 200-52 Chorus Art Silk		161.88	178.07





Send quotation

Send the quotation to the customer.

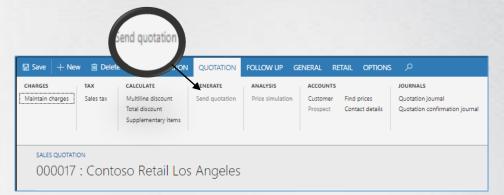
The quotation can be sent via an email or by a standard letter.

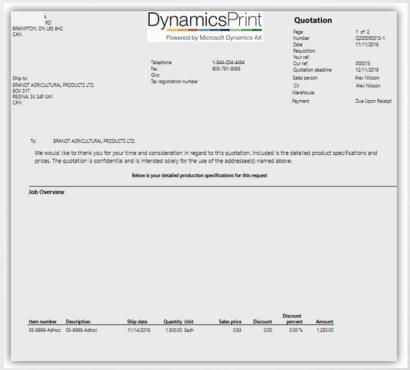
In this example we will print the quote.

Click on the quotation tab on top of the screen and select "Send quotation".

Specify the relevant parameters, such as print to screen, to printer or e-mail.

This step by step tutorial shows how even sophisticated job descriptions with nested impositions can be handled with very few key strokes, and provide a comprehensive job description to the customer.







Multiple prices

A quotation can contain different versions, such as quantities, substrate, colors, etc., and show price options

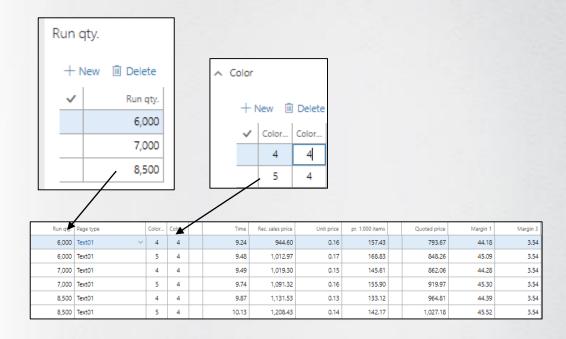
DynamicsPrint provides a very strong tool for the creation of various versions, based on the original calculation.

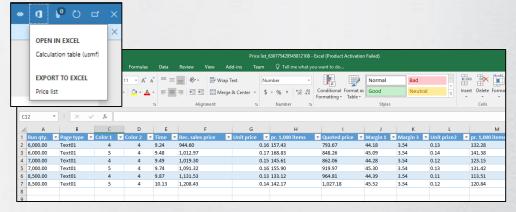
With a few key stokes, you can create enhanced price lists based on the original quotation. We call it the **Extended price list**.

In the example shown, three quantities and two color combinations are requested – this adds up to six versions. All six alternatives are calculated and the system flags the cheapest and the fastest combinations for your review.

With one click of the mouse you can export all data to Excel where you can add or change the data if desired.

Select the lines that will be sent back to your customer, and the quotation is ready.







Commercial print

Brochures or books, both soft- and hard cover, are handled easily through sophisticated and detailed calculations.

Whether you estimate simple flyers, brochures, books or other commercial print products, DynamicsPrint is the most advanced, yet easy-to-use, tool on the market.

In this example, we are going to build a brochure containing 136+4 pages.

You just need to specify quantity, format, pages and colors and with this minimal amount of data most of the calculation for the job is generated with just a few key strokes!

The imposition plan is generated (8 x 16, 1 x 8 and 4 pages) including pagination, and all major operations regarding the cover and text pages are calculated automatically.

The paper is suggested based on the best practice imposition rules.

You can add and/or edit any of the estimated information as needed during this process.

Page type	Pages
Cover	4
Text01	136

Page type	Base		Sheet	F	В	Paper no	1.		Pages	No. up	Pp./s
Cover V	03200 ~		1	4	4	0200	200 ~		4	4	16
Page type Base				F	В	Paper no).		Pages	No. up	Pp./s
Text01 V	0380	0 ~	8	2	2	200-01 ~			16	1	16
Text01	0380	00	1	2	2	200-01			8	2	16
Binding type Name					Ru	un qty.	No. up	Block qty.		Station	ıs
Glued V Perfect bind					2,800	1		2,928	10		

Description	Work center	Qty.	Unit	Name	Time	Total costs	Rec. sales price	Quoted price
Prepress	02099	2.00	ea	Rip	0.50	26.00	32.50	32.50
Prepress	02099	1.00	ea	Photoshop	0.50	26.00	32.50	32.50
Cover 1 x 4p 4 up	02200	10.00	ea	CTP - Plates		250.00	350.00	350.00
Cover 1 x 4p 4 up	02200	8.00	ea	CTP - Run time	1.00	62.00	86.00	86.00
Cover 1 x 4p 4 up	02200	2.00		CTP versions - run time	0.20	12.40	17.20	17.20
Cover 1 x 4p 4 up	08500	1.00		Buffer before print	4.00			
Cover 1 x 4p 4 up	03200	1.00	ea	Make ready press	0.25	55.00	62.50	62.50
Cover 1 x 4p 4 up	03200	791.00	ea	Run time press	0.07	14.50	16.48	16.48
Cover 1 x 4p 4 up	03200	0.58	kg	Ink		8.72	11.63	11.63
Cover 1 x 4p 4 up	08500	1.00		Buffer before finishing	2.00			
Cover 1 x 4p 4 up	05300	1,209.00	ea	Cut after print	3.10	223.20	248.00	248.00
Cover 1 x 4p 4 up	06100	1.00	ea	Folding make ready	0.20	18.00	28.00	28.00
Cover 1 x 4p 4 up	03200	3,100.00	ft	Folding run time	0.20	43.72	49.68	49.68
Cover 1 x 4p 4 up	03200	791.00	ea	Material 0200				
Text pages 8 x 16s	02100	8.00	ea	Proof		40.00	72.00	72.00
Text pages 8 x 16s	02200	48.00	ea	Plate making	7.20	446.40	619.20	619.20
Text pages 8 x 16s	03800	1.00		Machine Make ready	0.25	23.75	35.00	35.00
Text pages 8 x 16s	03800	48.00		Plate Make ready	4.80	456.00	672.00	672.00



Scheduling

Planning can take place in three steps: Define deadlines, long term planning on graphical board and short term planning.

Deadlines

A simple plan can be created with deadlines. A deadline is a predefined date for which an activity or an action is supposed to take place, such as receive material, proofs or delivery.

Gross Planning

The gross planning checks the capacity for all the work centers involved in the job, and according to the deadlines (f.x. delivery date) the job is scheduled. If any problems are identified, the system will show a warning. This could be overloaded capacity, or materials which cannot be ready.

Gantt Chart

The DynamicsPrint Gantt chart works in real time mode. This means that all changes in the scheduling will take new jobs, created by other users, into consideration while the scheduling is done, and vice versa.

Reschedule

One process in a route can be moved to a convenient date/time, and with one key stroke all the corresponding processes is rescheduled according to that.

	Work center	Start date	Start time	End date	End time	Scheduled time Material	Locked Schedule stat	us
Prepress	02110	11/14/2018	07:03:24 AM	11/14/2018	09:03:24 AM	2.00 -	Completed	
CTP	02200	11/14/2018	09:03:24 AM	11/14/2018	10:13:59 AM	1.18 -	Completed	
СТР	02200	11/14/2018	10:13:59 AM	11/14/2018	11:59:51 AM	1.76 -	Completed	
Buffer before print	08500	11/14/2018	11:59:51 AM	11/14/2018	03:59:51 PM	4.00 -	Scheduled	
Buffer before print	08500	11/14/2018	03:59:51 PM	11/14/2018	07:59:51 PM	4.00 -	Scheduled	
Sheet print	03200	11/14/2018	10:12:53 AM	11/14/2018	10:43:21 AM	0.51 Released	Completed	_
Sheet print	03200	11/15/2018	07:00:00 AM	11/15/2018	10:12:53 AM	3.21 OK	Scheduled	
Buffer before finishing	08500	11/15/2018	08:43:12 AM	11/15/2018	10:43:12 AM	2.00 -	Scheduled	
Buffer before finishing	08500	11/15/2018	10:43:12 AM	11/15/2018	12:43:12 PM	2.00 -	Scheduled	
Out after print	05300	11/15/2018	12:43:12 PM	11/15/2018	12:59:39 PM	0.27 -	Scheduled	
Folding	06100	11/15/2018	12:59:39 PM	11/15/2018	01:12:58 PM	0.22 -	Scheduled	
Folding	06100	11/15/2018	01:12:58 PM	11/15/2018	01:26:17 PM	0.22 -	Scheduled	
Finishing	05300	11/15/2018	01:26:17 PM	11/15/2018	01:53:11 PM	0.45 -	Scheduled	
Sindina	07300	11/15/2018	01:53:11 PM	11/15/2018	02:19:15 PM	0.43 -	Scheduled	
Sinding	07400	11) 13/2010	011331111111	11) 13)2313	02/13/13 / 14/1	515	Janeauta	
	Cro	ss -> fine sch	edulina					
Binding	07600 GTO							
elivery (from us)	Gros	splan						
	ď	Order 000886	Production P000310	Scheduled	Customer Contoso Retail Los	Name Angeles World War INovember 11	Start date ♥ 1918 11/15/2018	Start time 11:19:03 Al
		000886	P000310	Scheduled	Contoso Retail Los	Angeles World War iNovember 11	1918 11/15/2018	11:19:03 AM
		000785	P000185		Contoso Retail San		11/19/2018	03:31:29 PN
		000885	P000311		Contoso Retail Los		11/20/2018	09:57:07 AN
		000810	P000210		Contoso Retail San		11/21/2018	03:38:03 PN
		000810	P000210		Contoso Retail San	-	11/21/2018	03:59:20 PN
		000910	P000312		Contoso Retail Los	Angeles Magazine	11/26/2018	02:55:25 PN
	Fine	plan						
	N	Move up New start tir	ne Renumber sorting	to	Check process order	Reschedule line Reschedule all Ord	er Order progress Gang	production :
	N Worl	Move up New start tir	rom	to		Reschedule line Reschedule all Ord	er Order progress Gang Start date ▽	
	Worl	Move up New start tires center	rom 11/15/2018	to	Customer			Start
35	Worl	Nove up New start tir	rom 11/15/2018	to	Customer	Name	Start date ▽	Start
ile unit Timescale Interval	Worl	Nove up New start tir	rom 11/15/2018	to	Customer	Name Hard Cover book Biplick ordering	Start date ▽	Start
ile unit Timescale Interval	World 033	New start tir	rom 11/15/2018	Schedule Schedule	Customer d Contoso Re	Name Hard Cover book Biplick ordering	Start date ∀ 11/15/2018	Start
ele unit Timescale Internal 1 pand all ^Collapse all Description	N Word of State of St	Accepted to the control of the contr	11/15/2018 @ Production P000265	Schedule Schedule	Customer d Contaso Re Vertical move None November 15	Name Hard Cover book Biplick ordering	Start date ▼ 11/15/2016	Start 07%
de unit Timescale Internal 1 pand all	Memory India Show all India Wes Show all India	Aove up New start til contar colo Contar Contar Colo Colo Colo Colo Colo Colo Colo Col	11/15/2018	Schedule Schedule	Customer d Contaso Re Vertical move None November 15	Name Hard Cover book Explict ordering No	Start date ▼ 11/15/2016	Start 07%
No unit: Timescale infamuli 1	More all finite Show all finite 1 Note: all finite 5 0000 (https://acp. pia-rail of 1/1/2) 5 0000 (https://acp. pia-rail of 1/1/2)	Move up New start til contar 500 5orti Order 000653 Use there color Yes 5tort date 1000650000000 am 11/25/00	11/15/2018 @III 11/15/2018 @III Production P000265 5rep: No	Schedule Schedule	Customer d Contaso Re Vertical move None November 15	Name Hard Cover book Explict ordering No	Start date ▼ 11/15/2016	Start 07%
tis unit: Timescale internal 1	More all finite Show all finite 1 Note: all finite 5 0000 (https://acp. pia-rail of 1/1/2) 5 0000 (https://acp. pia-rail of 1/1/2)	Move up New start til contar 500 5orti Order 000653 Use there color Yes 5tort date 1000650000000 am 11/25/00	11/15/2018 @III 11/15/2018 @III Production P000265 5rep: No	Schedule Schedule	Customer d Contaso Re Vertical move None November 15	Name Hard Cover book Explict ordering No	Start date ▼ 11/15/2016	Start 07%
to unit	Dece will finds Dece will finds Dece will f	New start time New start time	11/15/2016 Production	Schedule Schedule	Customer d Contaso Re Vertical move None November 15	Name Hard Cover book Explict ordering No	Start date ▼ 11/15/2016	Start 07%
to unit Timescale Internal 3	Does at lines 1 New 35.000 Subgradup 12.2 2 11/20.5 5.000 Su	New start til contar Conder DOOGS Sort Order DOOGS Start dere (L0298 062000 am 11/25/02/2016 07/0002 am 11/14/02 L02918 07/0002 am 11/14/02 L02918 07/0002 am 11/14/02 L02918 07/0002 am 11/14/02	Tom 11/15/2018 Freduction P000265 Stage	Schedule Schedule	Customer d Contaso Re Vertical move None November 15	Name Hard Cover book Explict ordering No	Start date ▼ 11/15/2016	Start 07%
46 at 10.5 Timestals Internet. 5	5000 509-409 [4:4 01] 5000 509-409 [4:4 01] 5000 509-409 [4:4 01] 5000 509-409 [4:4 01] 5000 1149-509 [4:4 01]	Access of the start of the star	Tron 11/15/2018 Production Production Production Production Production Production No Indiana State Production No I	Schedule Schedule	Customer d Contaso Re Vertical move None November 15	Name Hard Cover book Explict ordering No	Start date ▼ 11/15/2016	Start 07%
As with Timescale Interest 1 S	5000 bdg=4ag (2 = 2 = 11)2 5000 bdg=4ag (2 = 2 = 11)2 5000 bdg=4ag (2 = 2 = 11)2 5000 bdg=4ag (4 = 0 = 1)2 5000 bdg=4ag (4 =	New start till	11/15/2018 © 11/15/2018 Production P000265 In Stage	Schedule Schedule	Customer d Contaso Re Vertical move None November 15	Name Hard Cover book Explict ordering No	Start date ▼ 11/15/2016	Start 07%
As unit Timescale intered in parent all Collagon all Description	5000 billip day prace of 1/20 5000 b	Access of the control	Tron 11/15/2018 Freduction P000265 Freduction P0002655	Schedule Schedule	Customer Contoso Re Varied mose None No	Name Hard Cover book Explict ordering No	Start date ▼ 11/15/2016	Start 07%
Tomoscale interest Tomoscale interest Tomoscale interest Tomoscale interest Description PRODEST 2 900051 2 0000910 Magazine—25 PRODEST 2 900051 2 0000910 Magazine—25 PRODEST 2 900051 2 0000910 Magazine—35 PRODEST 2 900051 2 0000910 Magazine—35 PRODEST 2 900051 2 0000910 Magazine—35 PRODEST 2 900051 2 000091 Magazine—35	5000 bidg-day (2-2 01) 11/10 bidg-day (1-2 01) 11/10 b	Access of the control	TOTAL	Schedule Sch	Customer Contoso Re Varied mose None No	Name Hard Cover book Explict ordering No	Start date ▼ 11/15/2016	Start 07%
Transcript intend T T Description Descri	5000 Today-Alay (24 - 26 - 11/2) 5000 Today-Alay (24 - 26 - 27 - 27 - 27 - 27 - 27 - 27 - 27	Start date Stort	11/15/2018 © 11/15/2018 Production P000265 Production P000265 P0000265 P000265	Schedule Sch	Customer Contoso Re Variosi mova None None None ANI 1000 AMITO AMITO OP HIT 1	Name Hard Cover book Explict ordering No	Start date ▼ 11/15/2016	Start 07%
Tomerania internal Tomerania internal	5000 306g-8ag pt 22 0 11/2 1 1960 3000 106g-8ag pt 22 0 11/2 1 1960 3000 1	Contair Con	Ton 11/15/2018	Schedule Sch	Customer Contoso Re Variosi mova None None None ANI 1000 AMITO AMITO OP HIT 1	Name Hard Cover book Explict ordering No	Start date ▼ 11/15/2016	Start 07:1



Shop Floor Control

The shop floor system provides superior functionality in order to view order information and report any production incidence.

Time and material

The machine operator has all the information needed to complete the production. Start and Stop functionality provides a simple and secure registration of production data to the cost accounting. Registered time and materiel usage are automatically transferred to the accounting system and as 'Work in Progress'.

Job ticket

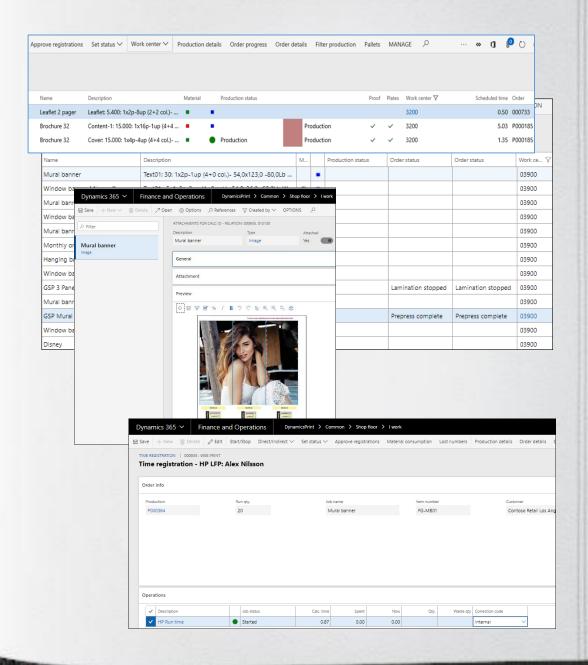
At any time, the operator can view the job ticket, which contains all relevant job information.

Job plan

You have access to all job information, including the complete schedule for the selected job.

Job status

All actions are logged in the system with various job statuses, which provide a complete overview of all production in real time.





Post calculation

Data reported to the cost accounting will, through the post calculation, be compared with the planned data from the order.

Transactions from the shop floor system will be posted to the order and all actual postings will be compared with whatever was scheduled.

The cost control, or post calculation, contains data from the quotation (budget), the job description (scheduled) and from the shop floor (realized).

The postings can be reviewed in different detail levels such as:

Key numbers

The overall numbers and margins

Per category

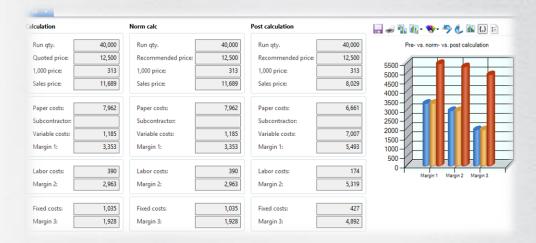
Comparison per department such as prepress, print, finishing etc.

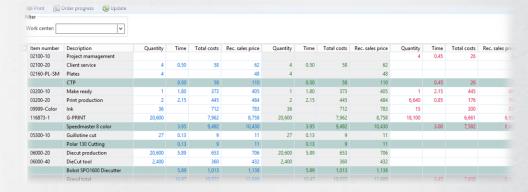
Per cost center

All transactions per one cost center will be shown in one line.

Per item

The most detailed screen where all operations and materials are viewed with subtotals.





- Sales price per hour.
- O Margin 3 per hour
- O Margin 2 per hour

Work center	Description	Time	Total costs	Rec. sales price	Price/hour	Time	Total costs	Rec. sales price	Price/hour	Time	Total costs	Rec. sales price	Price/ho
02160	CTP	0.50	58	110	220	0.50	58	110	220	0.45	26	28	
03200	Speedmaster 8 color	3.95	9,492	10,430	2,640	3.95	9,492	10,430	2,640	3.00	7,582	8,001	2,66
05300	Polar 130 Cutting	0.13	9	11	80	0.13	9	11	80				
06000	Bobst SPO1600 Diecutter	5.89	1,013	1,138	193	5.89	1,013	1,138	193				
	Grand total	10.47	10,572	11,689	1,116	10.47	10,572	11,689	1,116	3.45	7,608	8,029	