Shop Pulse for Max 2018

Asen Ivanov

Asen Ivanov

- With BPT since 2011
- Software Developer
- Design and develop ERP Solutions
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Objectives

▸ Presentation and overview of Shop Pulse
▸ Review of components
▸ Summary
▸ Questions and answers

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Integration & sufficiency

- Self Contained
- For MAX 5 and MAX 2018
- Import & Exports

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What requirements drove the development?

▸ Web based Estimating Package for Manufacturing

▸ User customizable formulas and tables

▸ Point and click/drag and drop on:
  ◦ Route Steps
 ◦ Material
  ◦ Hardware
  ◦ Outside Processing

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What requirements drove the development?

‣ Ability to quote Individual Parts or complete Assemblies

‣ Easy cost recalculation for quantity changes

‣ Ability to transfer data into Max Modules (BOM, Route, Costing, Part Master, Sales)

‣ Ability to produce a Quotation Letter

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Quote Header and Price Matrix

SHOP PULSE 2018 | v18.2.20.1 | **Quote 1001** | Route | BOM | RFQ | Maintenance | Additional | Help | NEW WINDOW | MAX 2018 Demo connected to ShopPulse_2018Sample < - > MAX2018Sample on server KPC | LOG OUT

Build | Advanced Search | Transfer | Miscellaneous | Lot Charges

Quote Details

1001 - Cepheid

Quote ID	1001	Exp Date	5/15/2018
Quote Part *	300-5850	MAX Part	300-5850-SP1
Lead Time	2 weeks ARO	UOM	EA
Status	Completed ☑ Completed	Attachments	5
Customer *	Cepheid	Cust Part	300-5850
Revision	01	Description	Base panel Inlet
Cust Buyer		Buyer Email	
Sales Rep *	Alfred Baker	Estimator	Max2018 Sample

Customer Notes

Quote Notes

New | Add | Delete | Summary - Print | Pricing Log

Pricing

Route	300-5850
BOM	300-5850

Item	# 1	# 2	# 3	# 4	# 5	# 6	# 7
Qty	10	50	100				
Labor	$15.30	$13.86	$13.68				
BOM	$70.00	$70.00	$70.00				
OSV	$5.50	$1.00	$0.76				
Lot Charges							
Unit Cost	$90.80	$84.86	$84.44				
Markup							
Unit Adjust							
Unit Price	$90.80	$84.86	$84.44				
Totals	$908.00	$4,243.00	$8,444.00				
Misc							
Total Hours	10.20	46.20	91.20				
Margin							

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Quote Summary

Left panel — Summary Costs screenshot:

Quote Summary

Quote ID	Customer	Quote Part	Customer Part	Rev	Estimator	Sales Rep	Date	Report	
1001	Cepheid	300-5850	300-5850	01	Max2018 Sample	Alfred Baker	2/23/2018	Summary ▾	Print Preview Print

Quote Notes

Pricing

Item	# 1	# 2	# 3	# 4	# 5	# 6	# 7
Qty	10	50	100				
Labor	$15.30	$13.86	$13.68				
BOM	$70.00	$70.00	$70.00				
OSV	$5.50	$1.00	$0.76				
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Totals	$908.00	$4,243.00	$8,444.00				
Misc							
Total Hours	10.20	46.20	91.20				
Margin							

Labor

Seq	Operation	Work Center	SU Hrs 1.2000	Setup Rate	SU Cost $18.00	RU Std 0.9000	Labor Rate	RU Cost $13.50	Min/Part 54.0000	Sec/Part 3240.0	Type	Qty Per
10	In-Process QA	In-Process QA	0.2000	$15.00	$3.00		$15.00					1
20	Saw Department	Saw Department	0.2500	$15.00	$3.75	0.1500	$15.00	$2.25	9.0000	540		1
30	Heat Treating (Outside)	Heat Treating (Outside)			$21.00		$21.00					1
40	Chemical Plating	Chemical Plating			$50.00		$50.00					1
50	Prototype Shop	Prototype Shop	0.2500	$15.00	$3.75	0.2500	$15.00	$3.75	15.0000	900		1
60	Final Inspection	Final Inspection	0.2500	$15.00	$3.75		$15.00					1
70	Packaging & Shipping	Packaging & Shipping	0.2500	$15.00	$3.75	0.5000	$15.00	$7.50	30.0000	1800		1

Bill of Material

Component	Description	Category	Group	Cost Cnv	PPA	UCost 1 $70.00	UCost 2 $70.00	UCost 3 $70.00	UCost 4	UCost 5	UCost 6	UCost 7
SM-13500	Sheet metal - T6061 - .125 In	Material	MAX	1	5.0000	$50.00	$50.00	$50.00	$50.00	$50.00	$50.00	$50.00
SO-13530	Standoff - Polished	Material	MAX	1	5.0000	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
SM-13500	Sheet metal - T6061 - .125 In	Material	MAX	1	2.0000	$20.00	$20.00	$20.00	$20.00	$20.00	$20.00	$20.00

Right panel — Quote PDF export screenshot:

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Quotation

Purchase Order:		Customer: Cepheid
Quantity:		Part: 300-5850
Due Date:		Customer Part: 300-5850
		Customer RFQ:

Sales Representative	Estimator	Quote Comments
Alfred Baker	Max2018 Sample	

Pricing

Category	# 1	# 2	# 3	# 4	# 5	# 6	# 7
Qty	10	50	100				
Labor	$15.30	$13.86	$13.68				
BOM	$70.00	$70.00	$70.00				
OSV	$5.50	$1.00	$0.76				
Lot Charges							
Unit Cost	$90.80	$84.86	$84.44				
Markup							
Unit Adjust							
Unit Price	$90.80	$84.86	$84.44				
Totals	$908.00	$4,243.00	$8,444.00				
Misc							
Total Hours	10.20	46.20	91.20				
Margin							
BOMTOTAL	$70.00	$70.00	$70.00				

Route #1

Seq	Operation	Work Center	SU Hrs 1.4500	Labor Rate	SU Cost $18.00	RU Std	Burden Rate	RU Cost $13.50	Min Part 54.0000	Sec/Part 3240.0
20	Saw Department	Saw Department	0.2500	$15.00	$3.75	0.150	$15.00	$2.25	9.0000	540
20	Saw Department	Saw Department	0.2500	$15.00		0.150	$15.00			
50	Prototype Shop	Prototype Shop	0.2500	$15.00	$3.75	0.250	$15.00	$3.75	15.0000	900
10	In-Process QA	In-Process QA	0.2000	$15.00	$3.00	0.000	$15.00			
40	Chemical Plating	Chemical Plating	0.0000	$50.00		0.000	$50.00			
60	Final Inspection	Final Inspection	0.2500	$15.00	$3.75	0.000	$15.00			
70	Packaging & Shipping	Packaging & Shipping	0.2500	$15.00	$3.75	0.500	$15.00	$7.50	30.0000	1800
30	Heat Treating (Outside)	Heat Treating (Outside)	0.0000	$21.00		0.000	$21.00			

Summary Costs

Quote PDF export

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Route Build & Management

Build   Outside Services   Transfer

Quote ∨ | 1001 - Cepheid 🔍   Route ∨ | 300-5850 ∨ | 1   None | New Route | Delete Route | Show Route Notes | 5 Attachments | Export | Time Study |

Route Details   Set Operation Rates

Seq	Operation		Work Center	SU Hrs 2.2000	RU Std 4.6500	Min/Part 279.0000	Sec/Part 16740.0	Labor Rate	Setup Rate	SU Cost $46.25	RU Cost $81.75	Type		Qty Per
10	In-Process QA		In-Process QA ∨	0.2000	1.0000	60.0000	3600	$15.00	$15.00	$3.00	$15.00	U - Unit	∨	1
20	Saw Department		Saw Department ∨	0.2500	0.1500	9.0000	540	$15.00	$15.00	$3.75	$2.25	U - Unit	∨	1
30	Heat Treating (Outside)	OSV	Heat Treating (Outside) ∨	0.7500	2.0000	120.0000	7200	$21.00	$21.00	$15.75	$42.00	U - Unit	∨	1
40	Chemical Plating	OSV	Chemical Plating ∨	0.2500				$50.00	$50.00	$12.50		U - Unit	∨	1
50	Prototype Shop		Prototype Shop ∨	0.2500	0.2500	15.0000	900	$15.00	$15.00	$3.75	$3.75	U - Unit	∨	1
60	Final Inspection		Final Inspection ∨	0.2500	0.7500	45.0000	2700	$15.00	$15.00	$3.75	$11.25	U - Unit	∨	1
70	Packaging & Shipping		Packaging & Shipping ∨	0.2500	0.5000	30.0000	1800	$15.00	$15.00	$3.75	$7.50	U - Unit	∨	1

Operation search... 🔍

Fab ∨ | Operations

Paint Booth
Prototype Shop
Punch and Press Brakes
Saw Department

Setup Formulas

SETUPHOURS ∨

Variable	Value
SetupHours	0.7500

Run Formulas

RUNSTD ∨

Variable	Value
Enter RunHours/Part	2.0000

Operation Notes

Notes

Enter operation notes...

Additional Fields

Tool Ref

Udf Key

Udf Ref

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Time Study

Quote Part	Description	MAX Part	UOM	Route		Target Qty
300-5850	Base panel Inlet		EA	300-5850		10

Refresh | Print Preview | Print | Back to Route

Seq	Operation	SU Hrs	RU Std	Min Part	Sec Part	RU Hrs	RU Min	THrs	Labor Rate	Setup Rate	SU Cost	RU Cost	Total Cost	Unit Cost
10	In-Process QA	0.20	1.0000	60.00	3600	10.00	600.00	10.20	$15.00	$15.00	$3.00	$150.00	$153.00	$15.30
20	Saw Department	0.25	0.1500	9.00	540	1.50	90.00	1.75	$15.00	$15.00	$3.75	$22.50	$26.25	$2.63
30	Heat Treating (Outside)	0.75	2.0000	120.00	7200	20.00	1200.00	20.75	$21.00	$21.00	$15.75	$420.00	$435.75	$43.58
40	Chemical Plating	0.25						0.25	$50.00	$50.00	$12.50		$12.50	$1.25
50	Prototype Shop	0.25	0.2500	15.00	900	2.50	150.00	2.75	$15.00	$15.00	$3.75	$37.50	$41.25	$4.13
60	Final Inspection	0.25	0.7500	45.00	2700	7.50	450.00	7.75	$15.00	$15.00	$3.75	$112.50	$116.25	$11.63
70	Packaging & Shipping	0.25	0.5000	30.00	1800	5.00	300.00	5.25	$15.00	$15.00	$3.75	$75.00	$78.75	$7.88
	Totals	2.20	4.6500	279.00	16740	46.50	2790.00	48.70			$46.25	$817.50	$863.75	$86.38

Legend (donut chart):
- 10 In-Process QA
- 20 Saw Department
- 30 Heat Treating (Outside)
- 40 Chemical Plating
- 50 Prototype Shop
- 60 Final Inspection
- 70 Packaging & Shipping

Unit Cost per Part

Setup Hours | Run Hours

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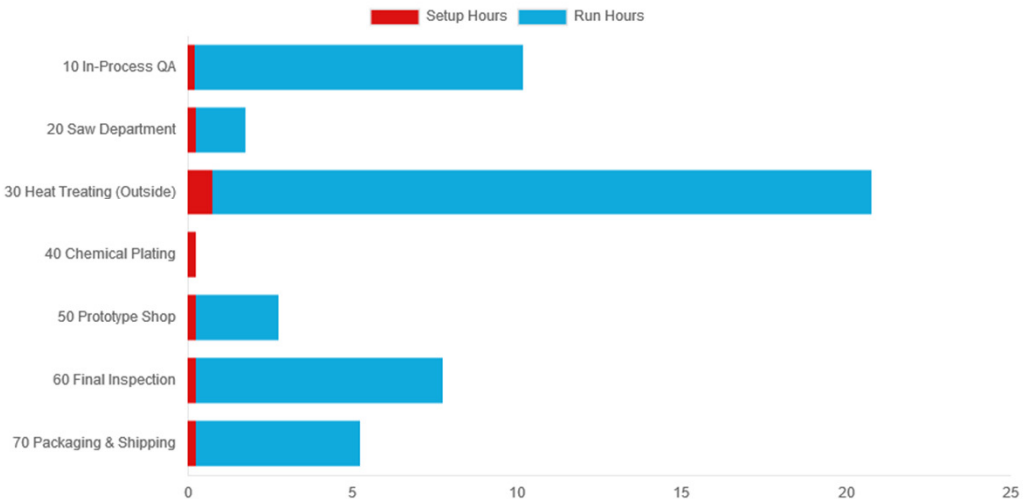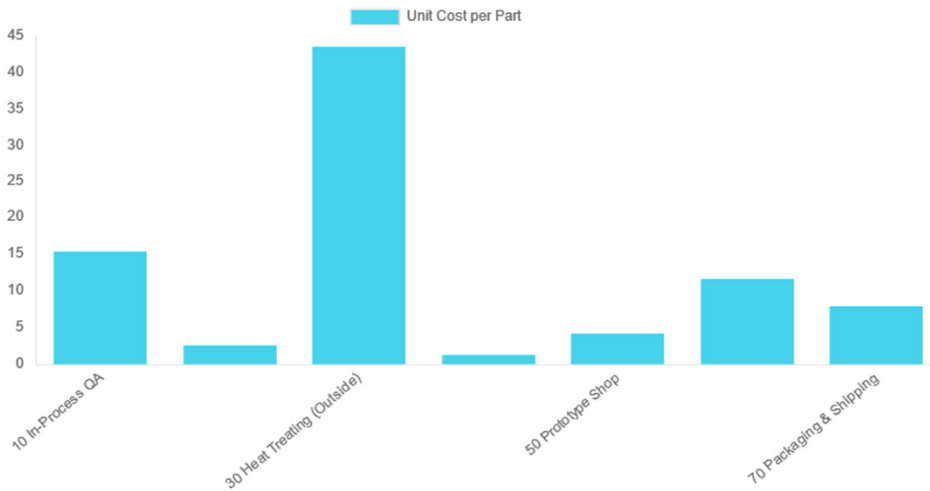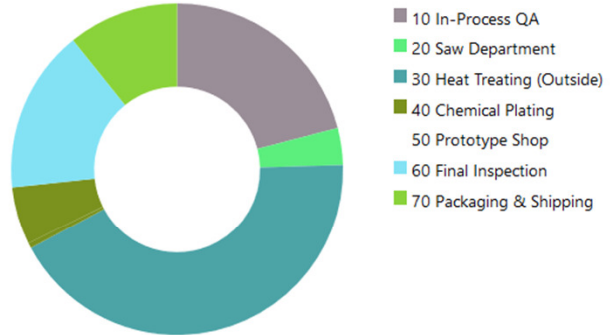
Process Notes and Instructions

Outside Service Assignment

SHOP PULSE 2018 v18.2.20.1   Quote 1001 | Route | BOM RFQ Maintenance Additional Help

Build   Outside Services   Transfer

Quick search...

| Quote ID | 1001 | | Route | 300-5850 |

Route Operation   Chemical Plating ▼

Operation Notes

| OSV Operation | Alodine ▼ | | Vendor | 4D Metal Finishing |
| Min Lot Price | $55.00 | | Breakdown Qty | 20 |

Comments

Pricing Assignment

Quote Qty	Unit Cost	Total Cost	Markup %	Total Profit	Total Price	Unit Price
10		$55.00			$55.00	$5.50
50	$1.00	$50.00			$50.00	$1.00
100	$0.76	$76.00			$76.00	$0.76

Show All   Add   Save Changes   Cancel   Delete

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Attachments

BOM Build

Build   Transfer

| Quote ▾ | 1001 - Cepheid | 🔍 | 300-5850 ▾ | 1 | New BOM | Delete BOM | Show BOM Notes | Hide Component Search | Export |

| 500 | Enter part # or description | Material ▾ | MAX ▾ | Search |

Selection Details

Quote ID	1001
Quote Type	Single
Quote Status	Completed
Quote Part	300-5850
MAX Part	300-5850-SP1
UOM	EA
Rev	01
Description	Base panel Inlet

Pricing

Qty	Unit Price	Total
10	$70.00	$700.00
50	$70.00	$3,500.00
100	$70.00	$7,000.00

Components

BOX-12990
Shipping Box for Desktop Computer
BOX-13990

Burn In Tester
BTEST

Standart Ethernet Cable
CA-13010

Cat 6 Ethernet Cable
CA-13020

Cat 6 Ethernet Cable - 10 Ft.
CA-13020-10

Desktop Computer Cabinet
CAB-12200

Desktop Computer Cabinet -
Ruggedized Military
CAB-12250

Ethernet Cable Connector
CN-100

Ruggedized Case Military
CSE-11150

Case for 17in Display Light Gray
DCSE-13105

Display - 17in - Standard Resolution
DSP-13100

Display - 21in - High Resolution
DSP-13110

Display - 21in - High Resolution- Touch

BOM   Part Details ▾   Page 1 of 1   Previous   Next

	Component	Description	PPA		STD Cost	BOM UOM	Eff Date	Cost Cnv	PUR UOM	Category	Group
...	SM-13500	Sheet metal - T6061 - .125 In	5.0000	++	$10.00	EA	2018-02-14	1	EA	Material	MAX
...	SO-13530	Standoff - Polished	5.0000	++		EA	2018-02-14	1	EA	Material	MAX
...	SM-13500	Sheet metal - T6061 - .125 In	2.0000	++	$10.00	EA	2018-02-15	1	EA	Material	MAX
...	CAB-12200	Desktop Computer Cabinet		++	$199.46	EA	2018-02-21	1	EA	Material	MAX
...	CN-100	Ethernet Cable Connector		++		EA	2018-02-21	1	EA	Material	MAX
...	DCSE-13105	Case for 17in Display		++	$3.00	EA	2018-02-21	1	EA	Material	MAX
...	DCSE-13105	Case for 17in Display		++	$3.00	EA	2018-02-21	1	EA	Material	MAX

BOM Item Notes

Notes

Enter BOM item notes...

Part Notes

Enter part notes...

Part Reference

Open Link

Enter part reference...

Additional Fields

Mfg Part #

Primary Vendor

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RFQ

RFQ to Client

Estimate

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Customer RFQ:	CN# 3847HG	**Contact:**	Mike Thompson
Customer:	Cepheid	**Sales Rep:**	Alfred Baker
Address:	473 West Pines Drive	**Phone:**	578 389 9579
	Canton, SD 57032	**Email:**	abaker@gho.com
	USA		

Quote ID	Part	Revision	Description	Lead Time
1000	100-001	A	Panel	

Qty	UOM	Unit Price	Total
10	EA	$19.38	$193.83
100	EA	$10.53	$1,053.33

Quote ID	Part	Revision	Description	Lead Time
1001	300-5850	01	Base panel Inlet	2 weeks ARO

Qty	UOM	Unit Price	Total
10	EA	$161.88	$1,618.75
50	EA	$153.68	$7,683.75
100	EA	$152.97	$15,297.25

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Summary

▸ Brings added functionality to Max Modules
▸ Data is connected and available to use in other departments
▸ Simplifies costing of BOMs and Labor
▸ Creates Manufacturing Process Instructions
▸ Easily transfers Quote to Sales order (one click)
▸ Keeps historical pricing for Quotes
▸ Web based

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More Opportunities!

- February 19th – March 31st, 2018
- Software price only.

March 8 1:00	30 Tools in 50 Minutes
March 15 3:00	Data Collection
April 10 11:00	Announcing Shop Pulse VPoint—A New Graphical Production Monitoring and Scheduling Tool
April 19 1:00	The Fastest and Easiest Way to Import and Maintain your MAX Data
	GP Features and Functions - You Already Own but Didn't Know About
	Shop Pulse
	GP Essential Applications Everyone Should Own Plus A Few To Meet Unique Requirements
	Process Automation for Materials and Manufacturing
	Connecting MAX to the World - Automating Sales Order Processing Functions

Software Promotion

Educational Webinars

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Questions?

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