

BEAS MANUFACTURING

Business Performance - Absorption Costing



BEAS BUSINESS PERFORMANCE-ABSORPTION COSTING

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1. Introduction

Before we dive into absorption costing and review how Beas Manufacturing works with it, let us outline some fundamental concepts of cost accounting that will play a key role in guiding us through this whole set of definitions and processes. Otherwise, it could be difficult to make sense of why certain processes must take place and their importance for enhancing a company's decision-making capability by providing indispensable costing information.

COST ACCOUNTING FOR MANUFACTURING ORGANISATIONS

Cost, in its basic definition, is something everyone is familiarised with. After all, several decisions we take in our everyday lives depend on the many implications that costs have over variables we can and cannot control, like what is going to be our next car, to which school we will take our kids, where we will enjoy our next vacations, or in which city (or country) we are going to live.

In a business environment, however, costs represent a decisive factor in the companies strive for survival and growth. If a company has a non-competitive cost structure, it will ultimately become unfeasible to operate, as its profits will fall below acceptable levels, or its prices will soar above what the market is willing to pay for its products. Additionally, even when cost structures are competitive, incorrect costs appropriation might overburden some of the companies' products while unburdening others, turning profitability analysis into a difficult and inaccurate task, and possibly leading to wrong business decisions. Therefore, understanding costs and being able to distribute them properly across the products is critical to success in a competitive environment.

If we think on retail or wholesale organisations, costs seem straightforward and are clearly identifiable in the products. Companies can easily know for how much they purchased their goods and pricing decisions are generally not complicated, as administrative expenses are either common to the entire company or related to product divisions and therefore easily linked to the goods. In this scenario, lowering purchasing prices and reducing structural costs have a direct impact on profitability, and understanding current profits doesn't require much effort.

For manufacturing organisations, on the other hand, costs have a much higher degree of complexity, which arises especially from the fact that many manufacturing-related costs cannot be directly linked to a particular product. Nevertheless, instead of jumping straight into the tools we have for solving such problems and transforming complicated data into reliable and accurate costing information, let's have a look at the components and definitions of cost for manufacturing companies. There are three categories in which manufacturing costs are normally divided:

Direct material: the costs of all direct materials consumed for manufacturing a product. If we think
on a machined sandblasted metal piece, the direct material costs would come from how much metal
we used to produce it, whereas other materials (such as sand wasted in the sandblasting process,
drill bits, and end mills) whose measuring results impossible for that piece are treated as manufacturing overhead;

- Direct labour: all costs associated to the workforce physically and directly involved in the process of manufacturing a certain product. This accounts for machine operators and assemblers, but not for indirect labour, such as production supervisors, maintenance technicians and quality control operators;
- Manufacturing overhead: all other manufacturing costs which do not fall into the categories of direct material and direct labour are manufacturing overheads. This category includes costs of indirect materials (cleaning supplies, disposable safety equipment, disposable tools, fittings and fasteners, etc.), maintenance staff, quality control staff, equipment depreciation, utilities, factory rental, property taxes on the production facilities, production managers and supervisors, and many others. Manufacturing overheads do not include, however, administrative expenses not related to production—only indirect production costs can be considered as overheads.

Although it is fairly easy to measure direct materials and direct labour for manufacturing a product, understanding how much overhead costs each product should receive is always a complicated endeavour. For example, consider a company who produces liquid chemical products. Do all chemicals require the same reaction times on reactors and have the same viscosity? Not at all, and both higher reaction times and viscosity might represent a higher burden on maintenance and cleaning activities after production, as these products could wear the reactors faster and occasionally cause clogs which can be hard to clean. Besides, if the company constantly switches between different types of products using the same production resources, more cleaning and machine preparation times might be required than when producing multiple times the same product, which also increases manufacturing overheads significantly.

Using the traditional costing method, all manufacturing overheads would be summed and divided by the amount of a particular cost driver (which are the factors responsible for generating manufacturing costs), like the number of produced units, processed kilograms, or labour hours. Then, each and every product receives a share of manufacturing overheads based on how much of that same cost driver it contributed to increase. However, considering the existing variables in real production environments, should all products receive the same share of manufacturing overheads? If we produced 100 kilograms of a very difficult to process chemical, should it receive the same costs as 100 kilograms of an easily processable chemical? When the goal is to achieve a more accurate profitability analysis, the answer is no. And this leads to our next and fundamental question: how to make sure that each product receives a fair share of the correct manufacturing overheads?

For this question, the answer comes from one of the alternative methods to appropriate manufacturing overheads to products called absorption costing, which is precisely our next topic in this article. Using absorption costing, companies can base their costs appropriation on the costs related to direct or indirect manufacturing cost centres and on how much they affected production.

AN INTRODUCTION TO ABSORPTION COSTING

Absorption costing is a costing method targeted at distributing manufacturing overheads to the manufactured items and appropriating these costs into inventory, where they will remain until the company sells them. After selling, the products' costs, now including manufacturing overheads distribution, will be recognised as COGS (Costs of Goods Sold) and affect the Profit & Losses financial statement. It is important to note that, apart from being an extremely useful tool for accurate per-product profits calculation, absorption costing is a mandatory requirement for publicly traded companies who need to follow GAAP and/or IFRS standards, and required by tax laws in the United States, Brazil, and many other countries.

When using absorption costing, the companies book all their manufacturing costs to cost centres, which can be direct or indirect. Direct cost centres represent manufacturing units directly related to production, like production equipment and work centres. Indirect cost centres, on the other hand, can represent either manufacturing units indirectly related to production (such as maintenance, production supervision, and quality control) or cost pools, which are intermediate cost centres that collect multiple costs before a further distribution into other direct or indirect cost centres. Afterwards, distribution rules will set the basis for sharing the costs contained in indirect cost centres across the direct cost centres, which will later be carried over into the products.



However, absorption costing can be an extremely complicated and time-consuming task without a powerful and integrated ERP to support it. Actually, several companies give up on absorption costing or treat it just like a burdensome obligation due to the simple fact that they lack the proper tools to calculate it properly. After all, for absorption costing to be successful, it needs to combine information coming from finance, production, maintenance, and many other departments, which can all have their own systems and require extensive manual work to match an immense amount of data in spreadsheets and input the results into the ERP. Nevertheless, when using Beas Manufacturing, you can be just a few clicks away from accomplishing a full absorption costing process, as it integrates manufacturing data to financial information coming from SAP Business One, automatically calculates the distributions of costs in between cost centres and products, and revaluate the goods based on their new calculated costs. Now that we have reviewed the basics concepts of cost accounting and the implications of absorption costing for a manufacturing organisation, let's take a look at how SAP Business One handles cost accounting and how Beas Manufacturing processes absorption costing, part of its Business Performance module.

SAP B1 AND BEAS FINANCIAL INTEGRATION

In an SAP Business One installation, the typical implementation process includes basic financial definitions such as posting periods, company branches (in the case of having multiple subsidiaries in the same database), chart of accounts, cost centres, and distribution rules (responsible for sharing values across multiple cost centres in certain transactions). Every time a user creates a transaction with inventory or financial implications, this transaction will trigger a journal entry containing manually selected accounts or automatically defined accounts based on accounting determinations, besides cost centres selected by the user or linked to the accounts.

For using absorption costing in Beas Manufacturing, extra definitions are required, like statement cycles mapped to the branches and posting periods, cost elements associated to the desired accounts from the chart of accounts, cost centres for direct and indirect manufacturing costs, and distribution keys reflecting SAP's distribution rules. The linking in between manufactured items and direct cost centres happens through time receipts, which are the transactions generated to record processing times from factory workers and machines, and will later compose the production activities, or the list of manufactured goods to receive absorption costing appropriation.

Time receipts also trigger journal entries for labour and machine costs according to pre-defined resources and operators' cost rates, in order to keep manufacturing costs as close as possible to the costs after absorption costing. These costs are automatically reverted as part of the absorption costing process (preventing double-costing on products, as they will receive labour, machine, and overhead costs from absorption costing) and, based on absorption costing results, output new recommended cost rates for production resources.



The flowchart below illustrates the integrations between SAP Business One and Beas Manufacturing for generating transactions and processing absorption costing.

2. Business Performance - Absorption Costing

Beas Manufacturing, through its module Business Performance, provides an absorption costing functionality capable of distributing manufacturing costs (labour and overheads) to the produced goods, including distributions from cost pools and indirect cost centres to direct cost centres, detailed control of open absorption costing values for unfinished production orders at the month's end, and redirection of subassemblies' appropriations to the products who consumed then. Absorption costing affects inventory values, expenses, and costs of goods sold (if the products to revaluate were already sold during the month) by moving production-related expenses into inventory. This means that, after executing absorption costing, the company's profits will be higher unless it has sold all its produced inventory, as manufacturing costs are only recognised as expenses in the form of COGS.

As mentioned before, absorption costing is a mandatory requirement for publicly traded companies who need to follow GAAP and/or IFRS standards, and required by tax laws in the United States, Brazil, and many other countries. By having Beas Manufacturing in place, your company can transform the burden of fulfilling tax requirements or complying to financial standards into a powerful and automated analytical tool for understanding costs and profits, requiring a fraction of the effort normally required by the traditional manual calculation methods.

3. Business Performance - SAP Business One Settings

Even though absorption costing is part of Beas Manufacturing, the initial settings begin in SAP Business One, where you must create all direct and indirect cost centres, cost pools (only if desired, as cost pools are not mandatory), and distribution rules. Below, you can find examples of how to set-up the required data in SAP Business One.

SAP BUSINESS ONE SETUP – COST CENTRES

1) Create Cost Centres for all production resources (direct manufacturing costs), considering both machines and labour.

Important note: You cannot activate the "Use multidimensional" parameter in SAP Business One's General Settings if you want to use the Business Performance module, as it is not compatible with multiple Cost Centre dimensions.

Cost Centers - Setup				
Cost Center		08025)
Name		Dryer_Seca	do_Secado	r
Owner				
Sort Code		[
Cost Center Type				•
Effective From	01/01/2021	То		
Active				
OK Car	ncel			Open Table

2) Create Cost Centres for indirect manufacturing costs.

Cost Centers - Setup				
Cost Center		IND001		
Name		Quality Con	itrol	
Owner				
Sort Code				
Cost Center Type				•
Effective From	01/01/2017	То		
Active				
OK Car	ncel			Open Table

3) If needed, create Cost Centres to represent desired cost pools if you wish to book costs directly into them, although this is an optional step, as it is perfectly possible to execute absorption costing without having any cost pools. Costs related to cost pools will suffer a first distribution to direct and indirect Cost Centres before the costs from indirect Cost Centres are distributed to the direct ones.

Cost Centers - Setup			
Cost Center		POOL001	
Name		Cost Pool 1	
Owner			
Sort Code			
Cost Center Type			¥
Effective From	01/01/2017	То	
Active			
OK Car	ncel		Open Table

SAP BUSINESS ONE SETUP – DISTRIBUTION RULES

1) Define Distribution Rules for costs requiring distribution amongst several Cost Centres. A typical example of cost distribution is in how to deal with meals for employees or corporate cafeteria. When all employees receive a share of a global expense, this expense affects several departments and might need to affect product costing as well. So, the first step is to split meals expense across different accounts, one related to administrative departments and one (or multiple) reflecting production department(s). Next, a Distribution Rule can be set to assign parts of these costs to each Cost Centre based on a pre-defined criterion (like number of employees per department, for instance).

Important note: Beas Manufacturing's absorption costing function is not compatible to "manual" distributions to Cost Centres (allowed by SAP Business One); so, make sure that all your documents with distributed values have a Distribution Rule assigned.

Description	Meals for Employees		
		Active	
Total	100	Direct Allocation	s
Center Code	Center Name	Value	
08002	Cutting_Cortadora	1:	5
08003	Blasting_Chorreado_Jateadora	a 10)
08007	Work Center I_Centro de Tra	1 2:	5
0B010	Stamping_Estampado_Estamp	p 1()
IND001	Quality Control		5
IND002	Production Supervision		3
IND003	Maintenance	1	3
IND004	Warehouse	24	ŧ
Centr z-General	Center		
Table Total	100		

SAP BUSINESS ONE-GL ACCOUNT DETERMINATION

1) Configure the **Price Difference Account** to match the corresponding COGS (Cost of Goods Sold) account, using simple or advanced GL Account Determinations. The last steps of the absorption costing process generate Stock Revaluations to change the products' stock value according to the appropriated costs. However, if the products are not in stock anymore (sold during the month), COGS should be adjusted to reflect the correct costs, and SAP Business One uses the Price Difference Account to register Stock Revaluation values when the products are partially or completely out-of-stock.

eriod	d Selection	2022	2	•									
	Sales	Purchasing	Ge <u>n</u> eral		Stock	Resou	irces	WIP Mappin	g				
#	# Type of Account			Acc	ount Code		Accourt	nt Name			Advance	ed Rules	2
	Stock Ac	count		-	3400000-0	01-001-01	Invento	ory - Finished God	ods (H	O, USA, GA)	🤝 7 Ru	les	
	Cost of Goods Sold Account			-	51100000-0	01-001-01	COGS -	Domestic (HO, I	USA, G	A)			
Allocation Account			> 23400001-01-001-01		Goods	Received Not Inv	voiced	(HO, USA, GA)	🥪 6 Ru	les			
Variance Account				-	52400000-0	01-001-01	Gain/Lo	ss Price Variance	e (HO,	USA, GA)	🥪 6 Ru	les	
	Price Difference Account			•	51100000-0	01-001-01	COGS -	Domestic (HO, I	USA, G	A)	-> 10 R	ules	٦.
	Negative	Stock Adj. Acct											
	Stock Offset - Decr. Acct			⇒ 52300000-01-001-01		Gain/Loss Inventory Variance (HO, USA, GA)							
	Stock Offset - Incr. Acct			> 52300000-01-001-01		Gain/Loss Inventory Variance (HO, USA, GA)							
	Sales Returns Account			⇒ 13500000-01-001-01			Inventory - Returns (HO, USA, GA)				- 11		
	Exchange Rate Differences Account			> 81600000-01-001-01			Rounding (HO, USA, GA)			🗢 6 Ru	les		
	Goods Cl	earing Account		> 13900000-01-001-01			Goods	Clearing Account	t (HO,	USA, GA)	🗢 6 Ru	les	
	G/L Decr	ease Account		> 52300000-01-001-01			Gain/Lo	iss Inventory Var	riance	(HO, USA, GA)			
	G/L Incre	ase Account		> 52300000-01-001-01			Gain/Lo	ss Inventory Var	riance	(HO, USA, GA)			
	WIP Sto	ck Account		> 13200000-01-001-01		Invento	ory - Work In Pro	ogress	(HO, USA, GA)				
	WIP Sto	ck Variance Accoun	t	•	52500000-0	01-001-01	WIP Ma	aterial Variances ((HO, U	SA, GA)			
	WIP Offs	et P&L Account									🥪 3 Ru	les	-
	Stock Of	fset P&L Account									🗢 6 Ru	les	
	Expense	Clearing Account		=> 2	23600000-0	01-001-01	Accrue	d Freight & Land	led Cos	ts (HO, USA, GA)			-
	4									•	+		

4. Business Performance - Beas Manufacturing Settings

Beas Manufacturing holds the thick part of absorption costing's settings and its entire processes. Now, we'll review how you can set-up Beas Manufacturing for executing absorption costing in your company.

BEAS MANUFACTURING SETUP – CONFIGURATION WIZARD SETTINGS

1) Activate the Business Performance module. Business Performance, a separately licensed module for Beas Manufacturing, is the module which contains the absorption costing functionality. Activating Business Performance is the first step to use absorption costing in a company.

Administration	
Support	
Company Details	
General settings	Edit general settings
User	Edit user
Authorizations	Edit authorizations
Sales Employees	Edit Sales Employees
Help	
Language	
View	
Print and report setup	
Modules to activate	
Quality control	
Business Performance	
Expert mode	
Beta mode	

2) Activate the absorption costing functionality.

Business Performance			
Data basis for effective m	nanufacturing services	work order confirmations	•
External accounting (resp	pective import program)		
Absorption Costing			

3) Set the "Data basis for effective manufacturing services" as "work order confirmations". This parameter ensures that Beas Manufacturing distribute manufacturing costs according to production data (coming from Time Receipts).

Business Performance		
Data basis for effective manufacturing services	work order confirmations	•
External accounting (respective import program)		
Absorption Costing		

BEAS MANUFACTURING SETUP – STATEMENT CYCLE

The Statement Cycles are a mandatory master data for Business Performance and have a similar logic to SAP's Posting Periods, except that they are always annual and, when working on multi-branch databases, have to be branch-specific. Here is how to create them.

1) Create a Statement Cycle, define starting date for the year and set the related branch (only if using multi-branch).

Statement cycle 2022 Description 2022 Start fiscal year 01/01/2022 ▼ Represent Cost Center Group ▼ Distribution base Full Cost Cost Clearing Account _SYS0000000216 ▼ Costs Absorb Account _SYS0000000215 ▼ Standard Costs Reversal Account _SYS000000091 ▼ WIP (initial values for Month) ↓January-2022 ▼						tement cycle: 2022 / 2022
Description 2022 Start fiscal year 01/01/2022 ▼ Represent Cost Center Group ♥ ♥ Distribution base Full Cost (Absorption Costing) Cost Clearing Account SYS0000000216 ♥ Cost of Absorb Account SYS0000000215 ♥ Standard Costs Reversal Account SYS0000000091 ♥ WIP (initial values for Month) ♥ January-2022 ♥					2022	atement cycle
Start fscal year 01/01/2022 Represent Cost Center Group Distribution base Full Cost (Absorption Costing) Cost Clearing Account SY50000000216 (-) Costs Reversal (HO, USA, GA) Costs to Absorb Account SY50000000215 Inventory - Work In Progress - Absorption Costing (HO, USA, GA) Standard Costs Reversal Account SY50000000015 Inventory - Work In Progress - Absorption Costing (HO, USA, GA) WIP (initial values for Month) January-2022					2022	scription
Represent Cost Center Group Image: Cost Center Group Distribution base Full Cost (Absorption Costing) Cost Clearing Account SYS0000000216 (-) Costs Reversal (HO, USA, GA) Costs to Absorb Account SYS00000000215 Inventory - Work In Progress - Absorption Costing (HO, USA, GA) Standard Costs Reversal Account SYS000000001 Production cost WIP (initial values for Month) Image: Cost of Co				Ŧ	01/01/2022	ert fiscal year
Distribution base Full Cost (Absorption Costing) Cost Clearing Account _SYS0000000216 (-) Costs Reversal (HO, USA, GA) Costs to Absorb Account _SYS0000000215 Inventory - Work In Progress - Absorption Costing (HO, USA, GA) Standard Costs Reversal Account _SYS000000001 Production cost WIP (initial values for Month) _January-2022				•		present Cost Center Group 📫
Cost Clearing Account _SY50000000216 Costs to Absorb Account _SY50000000215 Inventory - Work In Progress - Absorption Costing (HO, USA, GA) Standard Costs Reversal Account _SY50000000091 Production cost WIP (initial values for Month) >January-2022		 (Absorption Costing) 	-		Full Cost	tribution base
Costs to Absorb Account _SYS0000000215 Inventory - Work In Progress - Absorption Costing (HO, USA, GA) Standard Costs Reversal Account _SYS0000000091 Production cost WIP (initial values for Month) _January-2022		GA)	(-) Costs Reversal (HO, USA, G	•	_SYS0000000216	st Clearing Account
Standard Costs Reversal Account _SYS0000000091 Production cost WIP (initial values for Month) >January-2022 ▼		s - Absorption Costing (HO, USA, GA)	Inventory - Work In Progress -	•	_SYS0000000215	sts to Absorb Account
WIP (initial values for Month) initial values for Month)			Production cost	•	_SYS0000000091	andard Costs Reversal Account
				•	January-2022	IP (initial values for Month)
OK Cancel Remove Dupicate	-				ve Dupicate	OK Cancel Remo
	1.1					give concer werk

2) Set the Distribution Base for absorption costing. The Distribution Base defines how the costs coming from direct Cost Centres (after all distributions are processed) should be carried over into the manufactured products. Distributions can happen either based on production hours, on marginal costs, or on full costs. It is recommended to always use marginal or full costs to base absorption costing distribution, as they represent the multiplication between production hours and the resources' cost rates (which are set to represent the average costs per minute or hour for each machine or work centre). If only using hours, products going through inexpensive resources for a large number of hours will receive more costs than products going through very expensive resources for a small number of hours.

Statement cycle: 2022 / 2022			-	
Statement cycle	2022			
Description	2022			
Start fiscal year	01/01/2022	•		
Represent Cost Center Group		•		
Distribution base	Full Cost	_	 (Absorption Costing) 	
Cost Clearing Account	_SYS0000000216	•	(-) Costs Reversal (HO, USA, GA)	
Costs to Absorb Account	_SYS0000000215	•	Inventory - Work In Progress - Absorption Costing (HO, USA, GA)	
Standard Costs Reversal Account	_SYS0000000091	•	Production cost	
WIP (initial values for Month)	January-2022	-		
OK Cancel Rem	Duplcate			-

3) Set the Cost Clearing Account for absorption costing. This is a contra account to all manufacturing expenses (except direct materials, as direct materials are always directly appropriated into the manufactured products and are never part of an absorption costing process), turning their total amount to 0 after executing the first absorption costing step, called "Booking Cost Transfer". You can create this account in your Chart of Accounts just below the accounts related to direct labour and manufacturing overheads. This account will receive a credit value.

Statement cycle: 2022 / 2022				
Statement cycle	2022			
Description	2022			
Start fiscal year	01/01/2022	¥		
Represent Cost Center Group	4	•		
Distribution base	Full Cost		 (Absorption Costing) 	
Cost Clearing Account	_SYS0000000216	•	(-) Costs Reversal (HO, USA, GA)	
Costs to Absorb Account	_SYS0000000215	•	Inventory - Work In Progress - Absorption Costing (HO, USA, GA)	
Standard Costs Reversal Account	_SYS0000000091	•	Production cost	
WIP (initial values for Month)	January-2022	-		
QK Cancel R	emove Duplicate			53

4) Set the Costs to Absorb Account for absorption costing. This asset account offsets the Cost Clearing Account by receiving a debit value during the first absorption costing step, called "Booking Cost Transfer", holding the total amount of costs to absorb during absorption costing execution. Its nature is similar to a work-in-progress account, as it represents inventory-to-be.

Statement cycle: 2022 / 2022				
Statement cycle	2022			
Description	2022			
Start fiscal year	01/01/2022	•		
Represent Cost Center Group	•	•		
Distribution base	Full Cost			
Cost Clearing Account	_SYS0000000216	-	(-) Costs Reversal (HO, USA, GA)	
Costs to Absorb Account	_SYS0000000215	-	Inventory - Work In Progress - Absorption Costing (HO, USA, GA)	
Standard Costs Reversal Account	_SYS0000000091	•	Production cost	
WIP (initial values for Month)	January-2022	-		
QK Cancel Re	emove Duplicate			F

5) Set the Standard Costs Reversal Account. Throughout the month, when manufacturing goods, Beas assigns manufacturing costs to products according to the resources' cost rates, which are set in a way to represent historical average costs per hour or minute but will never match exactly the actual manufacturing expenses. While helpful in minimising differences between before and after absorption product costing, these costs cannot remain on the products after absorption costing, or the products will have duplicated costs (one calculated based on the resource rates and another coming from absorption costing). This field defines in which account the reverted values coming from costs calculated based on resource costs rates should be booked and is a contra account to the accounts set in the Beas Calculation Schemas or Production Cost Elements.

Statement cycle: 2022 / 2022				
Statement cycle	2022			
Description	2022			
Start fiscal year	01/01/2022	•		
Represent Cost Center Group	-	•		
Distribution base	Full Cost			
Cost Clearing Account	_SYS0000000216	•	(-) Costs Reversal (HO, USA, GA)	
Costs to Absorb Account	_SYS0000000215	-	Inventory - Work In Progress - Absorption Costing (HO, USA, GA)	
Standard Costs Reversal Account	_SYS0000000091	٠	Production cost	
WIP (initial values for Month)	January-2022	•		
QK Cancel	Remove Dupicate			53

6) If there are open values from previous absorption costing processes before implementing Beas Manufacturing, you can set the initial values under "WIP (initial values for Month)" (by clicking on the golden arrow) and define for which month they should apply.

Statement cycle 2022 Description 2022 Start fscal year 01/01/2022 • Represent Cost Center Group • Distribution base Ful Cost Cost Clearing Account _SYS0000000216 • Costs to Absorb Account _SYS0000000215 • Standard Costs Reversal Account _SYS000000001 • WIP (initial values for Month) •>January-2022 •	. – ×
Description 2022 Start fscal year 01/01/2022 Represent Cost Center Group Image: Cost Center Group Distribution base Full Cost Cost Clearing Account SYS0000000216 Cost Costs Reversal Account SYS00000000215 Standard Costs Reversal Account SYS0000000091 WIP (initial values for Month) January-2022	
Start fiscal year 01/01/2022 Represent Cost Center Group Image: Cost Center Group Distribution base Full Cost Cost Clearing Account SYS0000000216 Costs to Absorb Account SYS0000000215 Standard Costs Reversal Account SYS0000000091 Sys0000000091 Production cost WIP (initial values for Month) Image: Cost Start Star	
Represent Cost Center Group Image: Cost Center Group Distribution base Full Cost (Absorption Costing) Cost Clearing Account SYS0000000216 (-) Costs Reversal (HO, USA, GA) Costs to Absorb Account SYS00000000215 Inventory - Work In Progress - Absorption Costing (HO, USA, GA) Standard Costs Reversal Account SYS0000000091 Production cost WIP (initial values for Month) January-2022 Image: Cost Standard Cost	
Distribution base Full Cost (Absorption Costing) Cost Clearing Account SYS0000000216 (-) Costs Reversal (HO, USA, GA) Costs to Absorb Account SYS0000000215 Inventory - Work In Progress - Absorption Costing (HO, USA, GA) Standard Costs Reversal Account SYS0000000091 Production cost WIP (initial values for Month) January-2022	
Cost Clearing Account _SYS0000000216 (-) Costs Reversal (HO, USA, GA) Costs to Absorb Account _SYS0000000215 Inventory - Work In Progress - Absorption Costing (HO, USA, GA) Standard Costs Reversal Account _SYS0000000091 Production cost WIP (initial values for Month) >January-2022	
Costs to Absorb Account _SYS0000000215 Inventory - Work In Progress - Absorption Costing (HO, USA, GA) Standard Costs Reversal Account _SYS0000000091 Production cost WIP (initial values for Month) Inventory - 2022 Inventory - Work In Progress - Absorption Costing (HO, USA, GA)	
Standard Costs Reversal Account _SYS0000000091 Production cost WIP (initial values for Month) January-2022 Image: Cost Cost Cost Cost Cost Cost Cost Cost	
WIP (initial values for Month)	
QK Cancel Remove Duplicate	5

7) The last step, after creating the Statement Cycles, is to choose in which one you want to work, as all master data and processes belong exclusively to the selected Statement Cycle. When not using a multi-branch database, you only need to create one Statement Cycle per year and choose it just after the year starts. If using multi-branch, you will need to configure master data and perform absorption costing for each branch individually and choose the Statement Cycle corresponding to the branch in which you want to work.

Statement cycles - C	Jurrent: 2022			
Statement cycle	Description	Start fiscal year	Distribution base	
2017	2017	01/01/2017	Full Cost	
2018	2018	01/01/2018	Full Cost	
2019	2019	01/01/2019	Full Cost	
2020	2020	01/01/2020	Full Cost	
2021	2021	01/01/2021	Full Cost	
2022	2022	01/01/2022	Full Cost	
998	Demo german	01/01/2006		
999	Demo english	01/01/2006		
			`	

Important note: As Business Performance master data is related to Statement Cycles, whenever you create a new Statement Cycle by clicking on the "New" button, it will come empty. If you have already defined another Statement Cycle previously and just want to create a new period for it (maintaining the same master data), you can choose the previous Statement Cycle and click on the "Duplicate" button instead. This will duplicate all master data related to the Statement Cycle to create a new one.



BEAS MANUFACTURING SETUP – COST CENTRES

Before coming into this part, all your direct and indirect manufacturing Cost Centres should already exist in SAP Business One. If not, make sure you create them there first, as you can just import them in this step to make your progress faster. However, even though you can import SAP's Cost Centres into Beas's Cost Centres, they are not directly connected, and you can have different Cost Centres in both places (which is not a recommended practice for manufacturing-related Cost Centres, as your efforts will be higher for analysing data and for connecting SAP's transactions to Beas's Financial Data). One of the few reasons for having Cost Centres only in Beas is for handling fictional Cost Centres, like the ones representing cost pools when they're not having direct financial bookings. In such a situation, the values coming from indirect Cost Centres could have a first pre-distribution into cost pools, then a further distribution into direct Cost Centres. Here is how to create Cost Centres.

Important note: Creating Cost Centres in SAP Business One does not create Cost Centres in Beas, as well as creating Cost Centres in Beas does not create Cost Centres in SAP Business One. Keep in mind that there is no automatic synchronisation and data must be manually created on both sides (or imported from SAP Business One into Beas).

1) Import direct and indirect Cost Centres from SAP Business One. Although importing the Cost Centres is an optional step, if you skip it, you'll have to create all your Cost Centres manually. Remember to only import Cost Centres directly or indirectly related to production; administrative Cost Centres must not be imported, as their value should not be part of absorption costing (for absorption costing, only direct labour and manufacturing overheads are relevant).

and Coulder by	entries ches ever											
Cost Cent	er Description	Distribution Key fix	Distribution Key Var.	Pre Distribution #	ey fix Pre De	tribution Key Var.	Assignment	As Cost	Unit			
08001	Resource 08001						No	No				
08002	Cutting_Cortadora	NO	IND				No	No				
08003	Blasting_Chorreado_Jateadora						No	No				
08004	Resource 08004						Min	Min				mana l
08005	Blasting_Chomeado_Jateadora	NO	IND	Cor	t Center: Import	From SAP						
08006	CNC Machining_Mecanizado_Usina			Sea	ction Cost Cent	er Description			Valid from	Vald to	Active	
08007	Work Center I_Centro de Trabaj	NO	IND		001	distribution ru	ile .		01/04/2014			
08008	Work Center II_Centro de Traba				ALIM001	Meals for Emp	oloyees		20/07/2017			
08009	Forge_Forga				CC001	cost centet 1			01/04/2014			
0 08010	Stamping_Estampado_Estamparia				Centr_z	General Cent	er.		01/01/1900			
08011	Painting_Pintado_Pintura				Centr_z2	General Cent	er 2		01/01/1900			
2 08012	Extraction Tank_Tanque de Extr				Centr_z3	General Cent	er 3		01/01/1900			
08013	Filtering_Filtrado_Filtro				Centr_24	General Cent	er 4		01/01/1900			
08014	Injection_Invección_Injetora				Centr_z5	General Cent	er S		01/01/1900			
08015	Flexography_Flexografia	NO	IND		OPTPAIN	F Painting Mach	ine		01/01/2021			
5 08016	Extrusion_Extrudado_Extrusora	NO	IND		OPTSHIP	Employee			01/01/2021			
08017	Anodizing_Anodizado_Anodizador				POOL001	Cost Pool 1			01/01/2017		R	
08018	Welding_Soldadura_Soldadora	NO	IND	_								
08019	Mning_Minerado_Mineradora	NO	IND									
08020	Press_Prensado_Prensa	NO	IND		T							
08021	Granulating_Granulado_Granulad	NO	IND		1			1				
08022	Packaging_Empacado_Embalagem		N N			(Bas	Canada		Colore	-		-
08023	Reactor_Reator		× 1		56.01	Deres.	Grice	1 100	y Delett			1
08024	Moxer_Mezclado_Misturador	NO	IND	5 L	-		199	144				51040
08025	Dryer_Secado_Secador		(S)	N			No	No				
08026	Driler_Taladro_Furadeira			1	1		No	No				
7 08027	Cleaning Tank_Tanque de Limpia			1	1		No	No				
				1								
Search	Elter Edt	Cancel (M	w Remove Dup	kate Import	From SAP	Check Date	bution keys					

2) Configure direct Cost Centres. Direct Cost Centres must not have Distribution or Pre-Distribution Keys assigned to them (unless in very specific circumstances, explained later in this guide), and require a set of specific configurations showed below.

Cost Contas	Deaduction activity		art Contas Conuns	According	Des Distribution
Cost Center	Production activity	y i	ost Center Groups	Assessments	Pre Distribution
Cost Center	08011				
Description	Painting_P	intado_Pintura			
Assignment	No	•			
As Cost Unit	No	-			
Distribution Key fo		-			
Distribution Key Vi	Ir.	-			
Pre Distribution Ke	y fix	•			
Pre Distribution Ke	y Var.	-			
Belongs to amoun	t LMC		Yes 🔻		
	COGS		No 🔻		
	Hk2		No 🔫		
Calculate surcharg	e No	-			
Calculate Cost Rat	e Yes	-	Depending		
Absorption Costing	Yes	-			
Distribution base	Full Cost		(Absorption Costing))	

3) Configure indirect Cost Centres. Indirect Cost Centres require either Distribution or Pre-Distribution Keys (Pre-Distribution should only be used in cases like having cost pools, as Pre-Distribution runs prior to Distribution, moving the costs from cost pools to other indirect Cost Centres before they are carried over into the direct Cost Centres—if this is not the case, leave all Pre-Distributions empty). The general recommendation is to always use the same Distribution Key in both fields for Distribution or Pre-Distribution ("fix" and "var."), although you could use different Distribution Keys for handling different ways of distributing costs if they come from Cost Elements set to contain variable or fixed costs. Indirect Cost Centres must also have the parameters shown below.

Important note: Distribution Keys are explained in the next topic of this guide. You will need to create Distribution Keys before you can complete the setup of indirect Cost Centres. Besides, you must choose between using Pre-Distribution or Distribution Keys, as it is impossible to set both to the same Cost Centre.

Cost Center	Production activity	Cost Center Groups	Assessments	Pre Distribution
Cost Center	IND001			
Description	Quality Control			
Assignment	No	-		
As Cost Unit	No	*		
Distribution Key fo	IND	 Indirect share 	Full Ci	
Distribution Key Va	ir. IND	 Indirect share 	Full Ci	
Pre Distribution Ke	y fix	-		
Pre Distribution Ke	y Var.	*		
Belongs to amoun	t LMC	No 🔫		
	COGS	No 🔻		
	Hk2	No 🔫		
Calculate surcharg	e No 🔻			
Calculate Cost Rate	e No 🔻	Depending		
all and the second				

BEAS MANUFACTURING SETUP – DISTRIBUTION KEYS

If you use or want to use Distribution Rules in SAP Business One transactions, you'll probably also want to create your Distribution Rules in SAP Business One first before creating Beas's Distribution Keys, to easier the creation process and to ensure a common cost accounting in between the two systems (which, by the way, is not mandatory if you intend to have different cost accounting for the financial department, but keep in mind that Beas will always distribute values according to its own Distribution Keys, no matter which Distribution Rules you select in SAP Business One transactions). Nevertheless, if your only intention is to distribute costs from indirect Cost Centres to direct Cost Centres (and not from, let's say, a Journal Entry into multiple Cost Centres), you don't need to create Distribution Rules in SAP Business One, as you'll only use Beas's Distribution Keys.

1) Import Distribution Rules from SAP Business One. As explained in this topic's introduction, this step is only relevant if you plan to use Distribution Rules in SAP Business One transactions. If not, you can just create the required Distribution Keys in Beas and don't need to have them reflected in SAP Business One. Additionally, this step is only valid for the first time that you create your Distribution Keys. After the first time, a double effort will be required to maintain Distribution Rules and Distribution Keys in both sides, as Beas allows Distribution Keys to have month-specific distribution criteria and SAP Business One does not, requiring you to create a new Distribution Rule if you want to change distribution criteria keeping historical data.

Distribution	n key: Statement cycle 2022							
Key	Description	Unit	Distribution	Assessment				
ALIM	Food for employees	Persons	Manual	to cost center				
AUTO	Automatic		by Production hours per Cost Cent	ter to cost center				
IND	Indirect share	Full Costs	Manual	to cost center				
			Dir	stribution key: Import From S	SAP			
			Se	lection Distribution key	Description	Cost Center Quanti	ty Valid from Valid to	Active
				001	distribution rule	CC001	1,0001/04/2014	
				ALIM001	Meals for Employees	08002 1	5,00 20/07/2017	
				ALIM001	Meals for Employees	08003 1	0,0020/07/2017	
				ALIM001	Meals for Employees	08007 2	5,00 20/07/2017	
				ALIM001	Meals for Employees	08010 1	0,0020/07/2017	2
				ALIM001	Meals for Employees	IND001	5,00 20/07/2017	
		1		ALIM001	Meals for Employees	IND002	3,0020/07/2017	
			X I	ALIM001	Meals for Employees	IND003	8,0020/07/2017	
			X	ALIM001	Meals for Employees	IND004 2	4,0020/07/2017	
			· ∖ ⊢					
			× 1					
				Search Elter	Cancel Apply	Select al		F •
				and the second second		Action 1995		
Can	ch EPW EVP	Cancel M	Barrows I Import From	CAD 1				
200	Dires Edit	- durge III	in henore siport hon	i dive				53

2) Create or edit Distribution Keys. When creating a new Distribution Key or editing an imported one, the "Distribution" and "Assessment" fields must be set as shown below.

Distribution ke	y: IND	
Key Pe	riod	
Кеу	IND	
Description	Indirect share	
Unit	Full Costs	
Distribution	Manual	-
Assessment	To cost center <	
<u>0</u> K	Cancel Remove Duplicate	53

3) Define distribution per period. After the initial settings, you must set how distribution will happen for each month of the year (or you can choose "STD" if the distribution should be the same for all months). You are free to set the distribution basis according to what makes more sense for your Cost Centres, and Beas will calculate the corresponding proportion (field "Share"). For example, if you wish to distribute energy costs to the direct Cost Centres representing your machines, you can use kW consumed by each one of them as distribution base. However, if you don't know which criterion fits you best, or don't want to create multiple criteria to avoid overloading your team with further maintenance during the following months, you can base your distribution on the amount of marginal/full costs generated by each resource, which will normally result in a fair appropriation, as these costs come from cost rates including all costs related to the resources. This strategy will be explained in more details in the topic about importing production activities.

Distribution key: IN	a 📃 🛛	Distribution I	Cey: IN	ID, Period: January-2022				
Key Period		Cost Center		Description	Quantity	Unit	Share	^
Month / Year	Description	-> 0B001	*	Resource 0B001	0,00	Full Costs	0,00	
January-2022	1. Month	🥪 0B002	-	Cutting_Cortadora	271.186,90	Full Costs	17,63	
February-2022	2. Month	🥪 08003	-	Blasting_Chorreado_Jateadora	98,00	Full Costs	0,01	
March-2022	3. Month	-> 0B004	+	Resource 0B004	0,00	Full Costs	0,00	
April-2022	4. Month	-> 0B005	+	Blasting_Chorreado_Jateadora	0,00	Full Costs	0,00	
May-2022	5. Month	OB006	+	CNC Machining_Mecanizado_Usina	0,00	Full Costs	0,00	
lune-2022	6 Month	-> 0B007	-	Work Center I_Centro de Trabaj	8,00	Full Costs	0,00	
July-2022	7. Month	-> 0B008	-	Work Center II_Centro de Traba	6.050,00	Full Costs	0,39	
July Louis		-> 0B009	-	Forge_Forja	32.930,00	Full Costs	2,14	
	× ×	⇒ 08011	-	Painting_Pintado_Pintura	0,00	Full Costs	0,00	
<		>			1.537.934,90		100,00	
QK	Cancel New Remove Edit			Cancel New Remo	ve			53

BEAS MANUFACTURING SETUP – COST ELEMENTS

Cost Elements are the link that holds together SAP Business One's Chart of Accounts and Beas Manufacturing's Business Performance. Using Cost Elements, you can define which accounts you want to be part of an absorption costing process and set criteria for distributing their values into multiple Cost Centres. There is no option to import Cost Elements, and it is recommended to create as minimum Cost Elements as possible.

As a general rule, you need a single Cost Element for all non-distributed accounts and one Cost Element for each account that requires specific distributions using Distribution Keys. Nevertheless, when creating new Cost Elements, you have the option to choose a Chart of Accounts' account from the dropdown for its ID; this makes the assignment process (covered in this guide's next topic) easier, but in overall adds unnecessary extra complications to the process and increase maintenance burdens in the long run.

1) **Create Cost Elements** for non-distributed accounts. If you're planning to assign this Cost Element to accounts directly related to particular Cost Centres (not Distribution Rules), you need no more than the settings showed below.

Cost Element	Allowable Cost Center	Budget direct	Cost Element Group
Cost Element	DIRECT		
Description	Direct Cost Element		
Assignment	No 👻		
Direct/distributed	Direct 🗸		
Distribution key			
Budget distribution			
Planned=real			
Annual Budget	0,00	(only Distribution)	
Show budget			
Default fixed/var.%	0.00 100.00	1	

2) If needed, create Cost Elements for distributed accounts. This step is only required in case you're planning to assign this Cost Element to accounts related to Distribution Rules instead of Cost Centres. Examples for this, as explained before, could come from transactions related to meals for employees or energy for the factory, which are expenses that hold costs for multiple Cost Centres.

You will need to set the Cost Element as "Distributed" and define the corresponding Distribution Key (as explained before, Beas will not use Distribution Rules from SAP Business One and will follow its own rules for distributing values—if you wish both places to have the same distributions, you must replicate Distribution Rules as Distribution Keys).

Cost Element	Allowable Cost (Center	Cost Element Group
Cost Element	FOOD		
Description	Food for Emplo	iyees	
Assignment	No	•	
Direct/distributed	Distributed	-	
Distribution key	ALIM	-	Food for employees
Budget distribution		•	
Planned=real			
Annual Budget		0,00	(only Distribution)
Show budget			
Default fixed/var.%	0,00	100,00	

3) Set **Allowable Cost Centres** for all Cost Elements (individually). Although you can choose specific Cost Centres as allowed to receive values from a particular Cost Element, the general recommendation is to always set all Cost Centres as allowed, or some financial transactions might not be imported into Beas's Business Performance for absorption costing if the Cost Centre to which they are linked isn't allowed (and you will probably want all manufacturing costs' transactions correctly imported). The easiest way is to press the "Selection" button, then "Select all" and "Apply", which will apply all Cost Centres as allowed for the Cost Element.

The "Fix %" and "Var. %" come from the "Default fixed/var.%" set in the Cost Element and are only useful when you define different Distribution Keys for fixed and variable costs (and this is not a normal recommendation, so you can just set all Cost Elements as 100% variable costs). Without specific Distributions Rules for fixed and variable costs, the calculated values will be exactly the same regardless of the proportions defined in these fields.

Cost Elemen	nt Allowable Cost Center	Budget direct	Cost Element Group	0		
Cost Center	Description	Fix %	Var. %			
08001	Resource 0B001 Cutting_Cortadora	0,00	100,00	Cost Center for DIRECT		
08003	- Blasting_Chorreado_Jateadora	0,00	100,00	# Ok Cost Center	Description	
08004	- Resource 08004	0,00	100.00	1 08001	Resource 0B001	
08005	- Blasting Chorreado Jateadora	0.00	100,00	2 08002	Cutting_Cortadora	
08006	- CNC Machining_Mecanizado_Usina	0,00	100,00	3 08003	Blasting_Chorreado_Jateadora	
08007	- Work Center 1 Centro de Trabaj	0.00	100,00	4 08004	Resource 08004	
08008	- Work Center II. Centro de Traba	0,00	100,00	5 08005	Blasting_Chorreado_Jateadora	
08009	- Forge Forja	0.00	100,00	6 08006	CNC Machining_Mecanizado_Usina	
08010	- Stamping Estampado Estamparia	0,00	100,00	7 08007	Work Center I_Centro de Trabaj	
08011	- Painting Pintado Pintura	0,00	100.00	8 08008	Work Center II_Centro de Traba	
08012	- Extraction Tank, Tanque de Extr	0.00	100.00	9 08009	Forge_Forja	
08013	- Filtering Filtrado Filtro	0,00	100,00	10 08010	Stamping_Estampado_Estamparia	
08014	- Injection_Invección_Injetora	0,00	100,00	11 08011	Painting_Pintado_Pintura	
08015	- Flexography_Flexografia	0,00	100,00	12 08012	Extraction Tank_Tanque de Extr	
08016	· Extrusion Extrudado Extrusora	0,00	100.00	13 08013	Filtering_Filtrado_Filtro	
08017	- Anodizing_Anodizado_Anodizador	0,00	100,00	14 08014	Injection_Inyección_Injetora	
08018	- Welding_Soldadura_Soldadora	0,00	100,00	15 08015	Flexography_Flexografia	
08019	- Mining_Minerado_Mineradora	0,00	100,00	16 08016	Extrusion_Extrudado_Extrusora	
08020	- Press_Prensado_Prensa	0,00	100,00	17 08017	Anodzing_Anodizado_Anodizador	
08021	- Granulating_Granulado_Granulad	0,00	100,00	18 08018	Welding_Soldadura_Soldadora	
08022	· Packaging_Empacado_Embalagem	0,00	100,00	19 08019	Mining_Minerado_Mineradora	
08023	+ Reactor_Reator	0,00	100,00	20 08020	Press_Prensado_Prensa	
08024	- Mixer_Mezclado_Misturador	0,00	100,00			
08025	- Dryer_Secado_Secador	0,00	100,00	Search	Eiter Cancel Apply Select al	Deseiect

BEAS MANUFACTURING SETUP – COST ELEMENT ASSIGNMENT

The **Assignment** is the process in which you effectively choose which accounts should be part of Beas's absorption costing, as only transactions coming from accounts linked to Cost Elements will be imported into Business Performance's financial data (covered later in this guide). Remember that you should not select any account related to administrative expenses, as only manufacturing-related costs should base absorption costing.

1) Link Cost Elements to the accounts you want as part of the absorption costing process. If you have created the Cost Elements with the same IDs as the accounts' IDs, you can press "Set Account" for an automatic assignment.

Dense - Airfare, Rail, Mileage (HO, USA, GA) DIRECT pense - Miscellaneous (HO, USA, GA) DIRECT pense - Salaries (HO, USA, GA) DIRECT pense - Direct Labor Cost (HO, USA, GA) DIRECT pense - Direct Labor Cost (HO, USA, GA) DIRECT pense - Direct Labor Cost (HO, USA, GA) DIRECT pense - Tax (HO, USA, GA) DIRECT pense - Vacation (HO, USA, GA) DIRECT pense - Other Abences (HO, USA, GA) DIRECT pense - Pension/401k (HO, USA, GA) DIRECT pense - Medicare (HO, USA, GA) DIRECT pense - Medicare (HO, USA, GA) DIRECT ponse fully genet (HO, USA, GA) DIRECT o, USA, GA) DIRECT (HO, USA, GA) DIRECT	DIRECT DIRECT DIRECT DIRECT DIRECT DIRECT DIRECT DIRECT		avel Expense - Airfare, Rail, Mileage (HO, USA, GA) avel Expense - Miscellaneous (HO, USA, GA) yroll Expense - Salaries (HO, USA, GA) yroll Expense - Direct Labor Cost (HO, USA, GA) yroll Expense - Tax (HO, USA, GA)	1300000100101 1400000100101 2100000100101 2200000100101 2300000100101
Joines - Miscellaneous (HO, USA, GA) DIRECT pense - Miscellaneous (HO, USA, GA) DIRECT pense - Direct Labor Cost (HO, USA, GA) DIRECT pense - Direct Labor Cost (HO, USA, GA) DIRECT pense - Tax (HO, USA, GA) DIRECT pense - Vacation (HO, USA, GA) DIRECT pense - Other Abences (HO, USA, GA) DIRECT pense - Pension/401k (HO, USA, GA) DIRECT pense - Medicare (HO, USA, GA) DIRECT pense - Medicare (HO, USA, GA) DIRECT ponse - Medicare (HO, USA, GA) DIRECT	DIRECT DIRECT DIRECT DIRECT DIRECT DIRECT DIRECT DIRECT		avel Expense - Miscellaneous (HO, USA, GA) yroll Expense - Salaries (HO, USA, GA) yroll Expense - Direct Labor Cost (HO, USA, GA) yroll Expense - Tax (HO, USA, GA)	1400000100101 2100000100101 2200000100101 2300000100101
Points - Hicklain Color, (Ho, USA, GA.) DIRECT pense - Direct Labor Cost (HO, USA, GA.) DIRECT pense - Direct Labor Cost (HO, USA, GA.) DIRECT pense - Tax (HO, USA, GA.) DIRECT pense - Vacation (HO, USA, GA.) DIRECT pense - Other Abences (HO, USA, GA.) DIRECT pense - Pension/401k (HO, USA, GA.) DIRECT pense - Medicare (HO, USA, GA.) DIRECT s (HO, USA, GA.) DIRECT o, USA, GA.) DIRECT o, USA, GA.) DIRECT (HO, USA, GA.) DIRECT	DIRECT DIRECT DIRECT DIRECT DIRECT DIRECT DIRECT		yroll Expense - Salaries (HO, USA, GA) yroll Expense - Direct Labor Cost (HO, USA, GA) yroll Expense - Tax (HO, USA, GA)	2100000100101 2200000100101 2300000100101
Joined - Statenes (Ho), USA, GA (J) DIRECT pense - Direct Labor Cost (HO, USA, GA) DIRECT pense - Tax (HO, USA, GA) DIRECT pense - Vacation (HO, USA, GA) DIRECT pense - Other Abences (HO, USA, GA) DIRECT pense - Pension/401k (HO, USA, GA) DIRECT pense - Medicare (HO, USA, GA) DIRECT s (HO, USA, GA) DIRECT o, USA, GA) DIRECT o, USA, GA) DIRECT (HO, USA, GA) DIRECT	OIRECT OIRECT OOD OIRECT OIRECT OIRECT		yroll Expense - Direct Labor Cost (HO, USA, GA) yroll Expense - Tax (HO, USA, GA)	2200000100101
Jones - Jacci Color Coll, (IG), Colly, Co	DIRECT OOD DIRECT DIRECT		yroll Expense - Tax (HO, USA, GA)	2300000100101
Vende Tax (no, obn, oh) Vacch pense - Vacation (Ho, USA, GA) FROOD pense - Other Abences (Ho, USA, GA) DIRECT pense - Pension/401k (Ho, USA, GA) DIRECT pense - Medicare (Ho, USA, GA) DIRECT is (Ho, USA, GA) DIRECT is (Ho, USA, GA) DIRECT is (Ho, USA, GA) DIRECT	OOD IRECT IRECT	1	The second secon	200000100101
Joing Control (HO), USA, GA (J) JOINE CT pense - Other Abences (HO, USA, GA) DIRECT pense - Pension/401k (HO, USA, GA) DIRECT pense - Medicare (HO, USA, GA) DIRECT j Building Rent (HO, USA, GA) DIRECT)IRECT)IRECT)IRECT		Wroll Expanse - Varation (HO LISA GA)	400000100101
pense - Pension/401k (HO, USA, GA) DIRECT	IRECT		wroll Expense - Vacadoli (HO, USA, GA)	500000100101
Jonse - Medicare (HO, USA, GA) DIRECT pense - Medicare (HO, USA, GA) DIRECT i Building Rent (HO, USA, GA) DIRECT	IRECT		aroli Expense - Other Aberices (no, 05A, 0A)	600000100101
S (HO, USA, GA) DIRECT I Building Rent (HO, USA, GA) DIRECT (HO, USA, GA) DIRECT (HO, USA, GA) DIRECT	ANECI		wroll Expense - Penson/401k (HO, USA, GA.)	2200000100101
(HO, USA, GA) DIRECT (HO, USA, GA) DIRECT (HO, USA, GA) DIRECT			d Debte (HO, LISA, GA.)	000000100101
(HO, USA, GA) DIRECT	IRECT		fice and Building Rent (HO, USA, GA.)	000000100101
(HO, USA, GA) DIRECT	IRECT		ities (HO_LISA_GA_)	2000000100101
IISA GA)	IDECT			2100000100101
	IPECT			200000100101
	IRECT		stor (HO 1154 G4)	2200000100101
	IRECT		lenhone (HO USA GA)	2000000100101
	IRECT		Surance (HO_LISA_GA_)	1000000100101
	IRECT		intenance (HO, USA, GA.)	5000000100101
ministrative (HO, USA, GA.)	INCO		ther Administrative (HO, LISA, GA.)	000000100101
In Expanse (HO, USA, GA)	IDECT		neration Expanse (HO, USA, GA)	000000100101
ion Land Improvements (NO, USA, GA.) = DIPECT	IRECT		precision - Land Improvements (NO_1ISA_GA_)	100000100101
in - Callo Indioveniencis (HO, USA, OA.)	41200		preciation - Land Employements (HO, USA, GA)	200000100101
	H1200	1	precision - buildings (no, USA, GA)	200000100101
Catagories			and Catagories	01 1

BEAS MANUFACTURING SETUP – RESOURCES

For Beas to allocate the correct Cost Centres to the Time Receipts, it is necessary to set the corresponding direct Cost Centre to each resource, as well as define, in the Configuration Wizard, that Cost Centres must be read from Resources. Ideally, each resource should have its own direct Cost Centre (unless the resource belongs to a group of similar resources sharing the same costs), since Beas will suggest new cost rates for each Cost Centre after running absorption costing (and you can easily update the resources' cost rates based on the latest absorption costing executing using Data Integration Hub). 1) Choose the corresponding Cost Centre in the resources master data.

Resource Maste	er Data 06002		6						
Resource		08002			Group 🥪 0	3	•		
Description		Cutting_C	ortadora				0		
General	Scheduling	Cost	Attachments	Documents	Expendable materia	Extended	Interruption	Maintenance orders	
Time types		Marginal	Cost Rate	Full Cost Rate	🤝 Cost Ele	ment (Default)			
Setup		_	0,02	0	0,05	-			
Production			0,13		0,27	•			
Cost Status		Cost in E	UR per Minute	Expand to co	ost elements	⇒ 2	•		
Cost Center		08002	-	Value labor c	osts separately				
Cost Rate	Cost Ele	ments Update							
QK	Canc	el C	ross reference	Dispatches					10

2) Set Beas to read Cost Centres from Resources in the Configuration Wizard.

Financials		
Business partner		
Sales		
Master Data		
Production		
Master Data		
Create		
Display		
▼ FDC		
Time Linking	none	
Attendance linking		
Parallel calculation		
Allow closing of operation sequences		
 Close operation sequence automatically 		
 Security query at last working position 		
Login to work order: multiple logon		
Time distribution Master-Slave	percentaged Default Time	
Master-Slave not at Manual Message		
Order time receipt: Protocol		
If a cost type is deposited in the routing, postings are no costs. Time receipts cannot be deleted any	are performed in Beas and SAP. If you enable the option, a more; only cancellation is possible.	I actions are logged, even if the
Material tracing based on operation		
Preliminary test entry in journal		
Cost Center determine by	Resource	
N 10-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-		

BEAS MANUFACTURING SETUP – SUMMARY

The following image summarises all steps you should have gone through when setting-up Beas for absorption costing.



5. Business Performance - Absorption Costing Workflow

BEAS MANUFACTURING WORKFLOW – FINANCIAL DATA

Business Performance's **Financial Data** keeps all financial transactions that will feed the absorption costing process. Importing financial data is the first step for executing absorption costing after you have successfully completed the required setup. As it relies on transactions created in SAP Business One, make sure that all documents and journal entries are already posted before you import the financial data, as data isn't automatically synchronised in between the two systems.

1) Define starting and ending month to import Financial Data for the currently active Statement Cycle. Remember that Business Performance will ignore all transactions related to accounts not assigned to Cost Elements. Besides, all transactions must be linked to Cost Centres or Distribution Rules, and the chosen Cost Centres must be defined as allowed for the Cost Elements, or you will receive errors during

From	September 2022	
rom	September-2022	
То	September-2022 🔻	

2) Open the Financial Data window and check if there were any errors related to the previous importing. After you fix the errors, you need to delete the existing financial data for the month before you import it again, or the data will be duplicated (Beas does not check if the data exists before importing, it will just re-import everything). To delete the data, you can right-click the "Posting date" column, choose "Restrict using [Posting date]", select the month in which the error happened, and click on "Batch-De-lete" (batch-delete only affects the data currently visible on the screen—if you filtered correctly, this will not affect transactions from other periods).

Important note: Although there is a "New" button on the screen, don't use it for the purposes of absorption costing, or you'll overburden your products with non-existent costs. This button exists for other functionalities related to the Business Performance module, not for companies using absorption costing. All financial transactions must be created in SAP Business One and imported into Beas.

Financia	al Data: Statement cycle	2022			
# No.	. Cost Elemen	t Posting date	Annual Color Annual	SAP Journal ID Line Cost Center	^
1 54	O DIRECT	30/09/2022		⇒ 14670 62 ⇒ IND001	
2 53	DIRECT	30/09/2022	Sorting ascending by [Posting date]	↔ 14670 61 ↔ IND001	
3 52	- DIRECT	30/09/2022	Sorting descending using [Posting date]	↔ 14670 60 ↔ IND001	
4 51	DIRECT	30/09/2022	In additional, Sorting by [Posting date]	🤝 14670 58 🤝 IND001	
5 50	- DIRECT	30/09/2022		🤟 14670 57 🥧 IND001	
6 49	DIRECT	30/09/2022	Y Restrict using [Posting date]	🤿 14670 56 🥪 IND001	
7 48	- DIRECT	30/09/2022	Y In additional, restrict by [Posting date]	🤣 14670 55 🥪 IND001	
8 47	- DIRECT	30/09/2022	Y Search value using [Posting dat.]	🧼 14670 54 🧼 IND001	
9 46	- DIRECT	30/09/2022	Search for additional value in [Posing date]	🤒 14670 53 🥪 IND001	
10 45	- DIRECT	30/09/2022		🧼 14670 51 🥪 IND001	
11 44	DIRECT	30/09/2022	× Reset		
12 43	- DIRECT	30/09/2022	· · · · · · · · · · · · · · · · · · ·	🧼 14670 49 🍁 IND001	
13 42	DIRECT	30/09/2022	349,00 Absorption Costing Use-Case	🤟 14670 48 🧼 IND001	
14 41	- DIRECT	30/09/2022	1.261,00 Absorption Costing Use-Case	🥪 14670 47 🥪 IND001	
15 40	- DIRECT	30/09/2022	257,00 Absorption Costing Use-Case	🧼 14670 46 🧼 IND001	
16 39	DIRECT	30/09/2022	513,00 Absorption Costing Use-Case	🧼 14670 44 🧼 IND001	
17 38	- DIRECT	30/09/2022	269,00 Absorption Costing Use-Case	👄 14670 43 🥌 IND001	
18 37	DIRECT	30/09/2022	1.585,00 Absorption Costing Use-Case	🤿 14670 42 🧼 IND001	
19 36	-> DIRECT	30/09/2022	111,00 Absorption Costing Use-Case	→ 14670 41 → 08016	
20 35	- DIRECT	30/09/2022	1.384,00 Absorption Costing Use-Case	🔶 14670 40 🥪 08016	
21 34	-> DIRECT	30/09/2022	199,00 Absorption Costing Use-Case	⇒ 14670 39 ⇒ 08016	
22 33	DIRECT	30/09/2022	452,00 Absorption Costing Use-Case	⇒ 14670 7 ⇒ 08016	
Se	earch Elter	Edit	Cancel New Remove	Duplicate Batch-Delete Last error: SBO financial import	

BEAS MANUFACTURING WORKFLOW – PRODUCTION ACTIVITIES

All production transactions generated in Beas are reflected in Business Performance's Production Activities. Production activities include the production items, quantities, times, and costs per Cost Centre and are the base for distributing costs from direct Cost Centres into the manufactured goods. Additionally, since this feature also summarises all manufacturing costs per Cost Centre (calculated according to the existing resources' cost rates), it can also be a guide to set-up Distribution Keys for indirect manufacturing costs.

1) Define starting and ending month to import Production Activities for the currently active Statement Cycle. You can leave the Cost Centres filter untouched and import data for all Cost Centres, as production activities, in contrast to financial data, are always erased when re-importing data for the same months (so, you will never get duplicate production activities).

Date	Sentember-2022	-
То	September-2022	*
Cost C	enter	
From	0B001	-
То	POOL001	-

2) After importing production activities, you will be presented with a summary screen, including marginal and full costs per Cost Centre.

Production hou	rs per Cost Center (I	Resources)	Production hours per	Cost Unit (produc	ts)	
Month / Year	Cost Center	Description		Sum Time	Sum Marginal Cost	Sum Full Cost
September-2022	08002	Cutting_Cortadora		3,33	26,00	54,00
September-2022	08005	Blasting_Chorreado_Jateadora		10,83	292,50	338,00
September-2022	08007	Work Center I_Centro de Trabaj		8,33	40,00	40,00
September-2022	08008	Work Center II_Centro de Traba		0,83	2,50	3,50
September-2022	08015	Flexography_Flexografia		3,00	45,00	57,60
September-2022	08016	Extrusion_Ex	trudado_Extrusora	4,17	437,50	487,50

This is a very useful data if you are not sure which is the most appropriate criteria for distributing costs from indirect to direct Cost Centres, as it represents which resources (direct Cost Centres) generated more costs for your company. To use this data as distribution base for indirect Cost Centres, can just copy the information from this screen into a Distribution Key and link it to the desired indirect Cost Centres.

Cost Center		Description	Quantity	Unit	Share	
08002	-	Cutting_Cortadora	54,00		5,51	
	*	Blasting_Chorreado_Jateadora	338,00		34,47	
-> 0B007	+	Work Center I_Centro de Trabaj	40,00		4,08	
OB008	-	Work Center II_Centro de Traba	3,50		0,36	
oB015	-	Flexography_Flexografia	57,60		5,87	
-> 0B016	+	Extrusion_Extrudado_Extrusora	487,50		49,71	
			980,60		100,00	
<u>о</u> к		Cancel <u>N</u> ew Remo	ve			5

After you press "Apply", the results screen will close.

BEAS MANUFACTURING WORKFLOW – COST CALCULATE

When both financial data and production activities are imported, the next step is to process the distributions in between Cost Centres through the Cost Calculate function. Distributions are processed in two steps:

I. Pre-distribution: distribute values from indirect Cost Centres (including cost pools) to other Cost Centres, either direct or indirect. Cost Centres receiving values from the pre-distribution phase can also have Distribution Keys set to them for further distributions. If no Cost Centres have Distribution Keys set for pre-distribution (normal scenario, as pre-distribution is only useful in very specific situations), this step is skipped.

II. Distribution: final distribution step, taking values from the indirect Cost Centres into directs. If any costs remain undistributed, it will not be carried over to the manufactured goods, reason for which you must make sure that all indirect Cost Centres have Distribution Keys assigned and that they are configured to send values only to direct Cost Centres.

In the two images below, you can see how Cost Calculate behaves when having pre-distribution plus distribution, or distribution only. Next, there is an explanation about running the Cost Calculate process.



INITIAL V	ALVES				FINAL VI	LUES
Indirect Cost Centers	Values				Indirect Cost Centers	Value
ndirect labor	35.000,00	6			Indirect labor	0,00
direct materials	7.500,00				Indirect materials	0,00
nergy	14.750,00				Energy	0,00
aintenance dept.	15.800,00				Maintenance dept.	0,00
uality dept.	9.750,00				Quality dept.	0,00
ctory 1	0,00	\sim	DISTRIBUTION		Factory 1	0,00
Factory 2	0,00				Factory 2	0,00
			_		Direct Cost Centers	Value
				\rightarrow	CC 1 to 15	45.540,00
C05	T CALCU	LATE		\rightarrow	CC 16 to 28	31.671,00
					rr	5 589 00

1) Execute Cost Calculate. Switching between short and long views has no impact on the calculation process itself, only on how you see data on the screen. The recommendation is to always use the short view, as there is no real benefit from using long view and it really slows down the calculations. If you wish to double-check whether your calculated values are correct or wrong, verify if the sum of "Financial Data direct" and "Financ.Data distributed" matches the total amount of financial data for the whole Statement Cycle. The values for "Financ.Data distributed" will only differ from 0 when you have distributed Cost Elements; if not, it will be 0 even when you have values on indirect Cost Centres with Distribution Keys assigned (and you shouldn't worry about where this screen displays the values).

Important note: "Fix" and "Variable" values depend on whether you set your Cost Elements as related to fixed or variable costs for the Cost Centres. Regarding the "Assessment" field, you can safely ignore its value.

Protoc	ol Cost accounting	Date 16	.09.22 ed	hort	Statement cycle Statement cycle From	202 01/0	2 01/2022
Month	Text	4		Planned fix	Planned variable	Effective fix	Effektiv variable
1	Deleting Monthly Values			0,00	0,00	0,00	0,00
	Budget Cost Elements direct			0,00	0,00	0,00	0,00
	Budget Cost Element Groups direct			0,00	0,00	0,00	0,00
	Budget Cost Elements distributed			0,00	0,00	0,00	0,00
	Financial Data direct			0,00	39.030,00	0,00	39.030,00
	Wage direct			0,00	0,00	0,00	0,00
	Financ.Data distributed	1		0,00	0,00	0,00	0,00
	Wage distributed			0,00	0,00	0,00	0,00
	Assessment	1		0,00	82.387,00		82.387,00
	Cost Center Group	1		0,00	0,00	0,00	0,00
	Sum FK/HK Calculate		inancial Dat	ta: Statement cycle	2022	1	
	End of calculating		# No.	Cost Element	t Posting date	AmountEntry t	ext
		5	3 2	-> DIRECT	30/09/2022	2 6,00 Absorp	tion Costing Use-Case
		5	4 1	-> DIRECT	30/09/2022	2.75, 00 Absorp	tion Costing Use-Case
	1					39.030,00	
	1 1		_				
			Search	Elter	Edit	Cancel	New Remove

UNDERSTANDING THE ABSORPTION COSTING REPORT

This part of the guide is focused on helping you to understand the Absorption Costing report, where you will find all data related to absorption costing and the functions which will later perform its execution. Before you can get into the report, however, there are several rules you must follow to prevent some common mistakes, as they can hinder your progress if Beas identifies them in your setup:

- Cost Centres **cannot have** both Pre-Distribution and Distribution Keys at the same time.
- Cost Centres with either Pre-Distribution or Distribution Keys must have the field "As Cost Unit" set to "No". As a general recommendation when using absorption costing, all Cost Centres must have "As Cost Unit" set to "No".
- Cost Centres cannot have Pre-Distribution or Distribution Keys distributing values back to themselves.

Additionally, there are two extra recommendations for absorption costing. These recommendations will not prevent you from running absorption costing but may trigger additional warning messages.

- Direct Cost Centres receiving values either directly or from Distribution Keys should have production activities linked to them (if not, you might want to link a Distribution Key to them to prevent having non-absorbed values).
- Cost Centres with associated production activities should not be linked to Distribution Keys (as their values will go to the manufactured goods).

1) Run the Absorption Costing report. You need to select the month (remember that it is always within the selected Statement Cycle) and, if not done before, leave "New Calculation" as "Y" for Beas to process the distributions between direct Cost Centres and manufactured goods, which happens according to the Distribution Base set in the Statement Cycle. If you have already processed it, you can set "New Calculation" to "N" on the next time you open the report, as it will speed up the opening by not processing new calculations.

Reports			_	X
Reports	Absorption Costing			
Object Analysis Sheet		_		
Cost Element Entries	Month September	-		
Cost Center Report	New Calculation Y	*		
Cost Center Report (Simple)				
Cost Center Groups				
Cost unit P/L statement				
Cost Rate Trend				
Cost Center Report without Manufacturing data				
Absorption Costing				
	Start Cancel		23	
Search Eiter Start Car	ncel			53

2) **Analyse** the report. The absorption costing report presents you with a list of all manufactured goods within the selected month, as well as the calculated appropriations and costs to revert for each one of them. Remember that appropriations come from financial data distributions, and costs to revert from costs booked to the goods according to the resources' cost rates. The difference between non-total and total columns is that non-totals represent values before discounts and additions due to "Consumed Assemblies" (explained in 6) and totals represent values after applying these discounts and additions.

A	sorption Costs: Stater	sent cycle 2022	/ September-2022 (Distribution base Full C	iest)								
1	Absorption Costing	WP	Consumed Assemblies Summary	Cost Centers not used in Prod	uction							
-	Document Position	Rem	Description	Batch / Serial Number	Warehouse	Qty. to produce	Quantity	Weighting [%]	Appropriation (AC)	Appropriation (AC) total	Full Cost	Full Cost (Total)
1	- 4012 10	PA185	Finished Steel Piece_Pieza Terminada	a de Acen 20220915-003	QC	20,000	20,000	100,000	19.387,89	33.560,04	548,60	940,60
2	⇒ 4012 20	SA156	Painted Steel Piece 1_Pieza Pintada	de Acero 20220915-002	01	20,000	20,000	100,000	8.599,51	0,00	338,00	0,00
3	➡ 4012 30	\$A158	Painted Steel Piece 2_Pieza Pintada	de Acero 20220915-001	01	20,000	20,000	100,000	5.572,64	0,00	54,00	0,00
								-	33.560,04	33.560,04	940,60	940,60

3) Check the **Summary** tab. Through the summary, you can understand how your financial values are distributed to your manufactured products in three main groups:

- Absorption Costing: values that Business Performance can absorb into the products during the absorption costing execution for the selected month, as the goods were processed and received on stock.
- **WIP:** values kept open for future months because the goods were not received on stock (production process incomplete).
- Absorption Costing + WIP: if everything is correct, this value will be exactly the same as the financial data, since all manufacturing costs must be appropriated to production. One common source of differences is because direct Cost Centres receiving costs were not used in production, so they have no production orders to distribute their contained values. If this happens, you'll see a value different from O under "Total value of all cost centres that receive values and are not used in production".

	Absorption Costing	WIP	Consumed Assemblies	Summary	Cost Centers not used in Production
*	Result				Value
	Financial Data				39.030,00
	Absorption Costing	33.560,04			
	WIP				0,00
	Absorption Costing + W	VIP			33.560,04
	Total value of all cost of	enters that	receive values and are not	used in productio	on 5.469,95
	Sum				39.029,99

4) Whenever you have a value different from 0 under "Total value of all cost centres that receive values and are not used in production", check the tab "Cost Centres not used in Production" to find out who they are. Then, assign them **Distribution Keys (not Pre-Distribution,** or values received from indirect Cost Centres might remain on them) to redirect their values to the other direct Cost Centres. Remember to erase this Distribution Key from the Cost Centres' master data after you complete the absorption costing run.

Important note: After setting the Distribution Keys, you **must execute the Cost Calculate process again and reopen the Absorption Costing report with "New Calculation" set to "Y".** If not, no values distribution will happen.

NOT	ion Costing	WIP Consumed Assemble	is Summary Co	st Centers not used in Pro	duction						
DI	ECT 0	8007 5.469.95	drect								
	- L	5.469,95									
Co	t Center: Stat	der ent cycle 2022					Cost Center 08007				
	Cost Cente	er Description	Distribution Key fix	Distribution Key Var.	Pre Distribution Key fix	Pre De A	Cost Center Prod	uction activity	Cost Center Groups	Assessments	Pre
1	08001	Resource 08001					Cost Center	08007			
2	08002	Cutting_Cortadora					Description	Work Center 1 Cent	tro de Trabal		
3	08003	Blasting_Chorreado_Jateadora						100000000000000000000000000000000000000			
4	08004	Resource 08004									
5	08005	Blasting_Chorreado_Jateadora									
6	08006	OVC Machining_Mecanizado_Usna					Assignment	No	•		
7	08007	Work Center L_Centro de Trabaj					As Cost Unit	No	-		
8	08008	Work Center II_Centro de Traba				-	Distribution Key fix	REDIRECT	Redrection		
9	08009	Forge_Forja					Pre Distribution Key fix	here here	· Perrection		
10	08010	Stamping_Estampado_Estamparia					Pre Distribution Key Var.		*		
11	08011	Painting_Pintado_Pintura					Belongs to amount	LMC	Yes 💌		
12	08012	Extraction Tank_Tanque de Extr						COGS	No 🖛		
13	08013	Fitering_Fitrado_Fitro						Hk2	No 🖛		
14	08014	Injection_Invección_Injetora					Calculate surcharge	No -			
	-					>	Calculate Cost Rate	Tes -	Depending		
-	Search	Fitter Edit	Cancel Ne	w Remove Dup	licate Import From S	SAP P	Absorption Costing	Tes ·	(Abusenting Conting)		
-							Decreación Dase	Put Cost	(Hoson/bon Coscing)		
-							1			_	. '
							obcace Ch	icei Remove			

If you followed all these steps correctly, the Summary report should now show the full financial value under "Absorption Costing + WIP".

1	Absorption Costing	WIP	Consumed Assemblies	Summary	Cost Centers not used in Production
#	Result				Value
	Financial Data				39.030,00
2	Absorption Costing				39.030,00
	WIP				0,00
	Absorption Costing + W	VIP			39.030,00
	Total value of all cost c	enters that	receive values and are not	used in product	ion 0,00
	Sum				39.030,00

5) The **WIP** tab contains all production orders for products whose manufacturing process could not be completed during the month. These products consumed production resources, thus requiring a share of the total manufacturing costs, but are not on stock so to be revaluated. Beas, in this case, will keep them open until the next periods when they are finally received on stock, a situation in which you will see values coming from previous months to increase appropriation amounts. If all your items in production were received on stock until the end of the month (at least through partial receipts for the work done), WIP will be empty.

Absorption Costing		WIP	Consumed Assemblies	Summary	Cost Centers not used in Produ	uction	
Document Positio	n 1	tem	Description		Qty. to produce	WIP	Full Co

6) The Consumed Assemblies tab details all subassemblies who were produced and consumed during the month to be incorporated into other products. This is needed to prevent these assemblies from receiving a direct appropriation, which would send values to COGS due to the items not being on stock anymore. With this behaviour, Beas can roll up manufacturing costs throughout assemblies until the last level is received on stock. You will see negative amounts for consumed subassemblies and positive amounts for the assemblies who consumed them.

	Absorption	Costing	WIP	Consumed Assemblies	Summary	Cost Cente	ers not use	ed in Production		
ſ	Document	Position	Item	Description	-		Quantity	Quantity (Issued)	consumed Assembles (AC)	consumed Assemblies (Full Cost)
	- 4012	10	PA185	Finished Steel Piece_F	Pieza Terminad	la de Ac	20,000	0,000	14.398,01	392,00
	- 4012	20	SA156	Painted Steel Piece 1	Pieza Pintada	de Ace	20,000	20,000	-8.794,26	-338,00
	4012	30	SA158	Painted Steel Piece 2	Pieza Pintada	de Ace	20,000	20,000	-5.603,75	-54,00
									0,00	0,00

EXECUTING ABSORPTION COSTING

After completing the verifications and making sure that all data is correct (if not, please fix everything before going forward), you can proceed to execute absorption costing. Executing it requires three major steps, illustrated in the image below and explained further in this topic. The circled numbers represent the accounts used in each step.



Important notes:

- After the absorption costing processes of Stock Revaluation and Stock Revaluation (Revert) are executed for a Statement Cycle, they cannot be performed for the same Work Orders again. Be sure that all values are correct before starting the three major steps.
- There is no cancellation option for the absorption costing process. Whenever absorption costing transactions need to be reverted, you must create new inverted Stock Revaluations in SAP (manually or using DTW) to correct the values. Stock Revaluations created manually or using DTW will not display on the Absorption Costing report.
- Due to an SAP Business One's limitation, the Stock Revaluation transactions can only be done considering the stock available at the moment in which they are being executed. As the available stock influences how much of the values will go into stock or COGS accounts, it is recommended to execute the Absorption Costing process as soon as possible after the month ends.

1) Execute **Booking Cost Transfer.** Whenever you book manufacturing costs in SAP Business One, being them related to labour or overheads, they'll go to costs or expenses accounts and be part of your Profit and Losses Statement. Using absorption costing, however, those costs only affect your Profit and Losses Statement in the form of COGS after the products are sold. In this first step, all your manufactur-ing-related costs are credited from the "Cost Clearing Account" (expenses contra account) and debited to the "Costs to Absorb Account" (asset account) set in the Statement Cycle.

Absorption	Costs (Booking	g Cost Transfer): Statement cyo	le 2022 / September-2022 (Distribution base: Full Cost)			
Valuation	date	30/09/2022				
lournal er	ator	Absorption Costing / Rooki	ng Cost Transfor			
Journal et	ioy.	Absorption costing / book				
Account	Description		Information	Debit	Credit Branch	
_SYS0000	000I(-) Costs R	eversal (HO, USA, GA)	Absorption Costing Total	0,00	39.030,00	
_SYS0000	000 Inventory -	Work In Progress - Absorpti	on Cos Absorption Costing Total	39.030,00	0,00	
¢						,
Canc	el Sta	art				5 3

Important note: This is the only step with a relatively easy cancellation procedure if you detect a mistake in your absorption costing process. Therefore, make sure everything is correct before proceeding. If you ever need to cancel a Booking Cost Transfer process, follow these steps:

Open the Booking Cost Transfer journal entry, erase the content of "Ref. 2", update and then cancel it using the same posting date as the date in which Booking Cost Transfer was originally posted. This will enable you to perform Booking Cost Transfer again.

241	es	Number	Posting Date	Due Date D	oc. Date	Remarks				Revaluation Reports	g Exch. Rate
PIR	ary	14681	30/09/2022	30/09/2022 3	0/09/2022	Absorption Cost	ting / Booking Co	ist Tra	nsfer	Reverse	
Orig	pin .	Origin No	. Trans. No.	Template Type	Template	1	ndicator	Pro	ject	Adj. Trans. (Period	13)
Æ		14681	14681			· · · · ·		•			
Tra	ns. Code	Ref. 1	Ref. 2 Re	f. 3						TT Automatic hist	
										Automatic VAT	
Blar	ket Agreem Contents pand Editing	Att Mode	achments					0 12 D 0 0 0	Add B1 Validation Add Function Butt Edit Item Placemer Edit Mandatory Fie Toolbox: Configura Create Template	Configuration ons to This Window nt Tool Configuration elds Configuration tion	
1.00	G/L Acct/B	IP Code	G/L Acct/BP Name		Debit	Credit	Debit (SC)	12	Get template		ox Posting Accou
		00-01-001-01	(-) Costs Reversal (HO	, USA, GA)		EUR 39.030,00	0	9	Make Items Read (Only	
1	-> 600000	AL 44 644 64	Inventory - Work In P	rogress - Absorption Costs	ng (F EUR 39.030,00)	USD 39.030,0	0	Add Right-Click M	enus to this window	
1 2	 600000 132000 	01-01-001-01						۹	Find UF's used on	form	
1 2	 600000 132000 	01-01-001-01					-	-	Cancel Duplicate	form	

2) Execute Stock Revaluation. This is the moment in which Beas really appropriates costs into the products, taking values from the "Costs to Absorb Account" and moving those values either to the products' stock accounts or COGS (if there is not enough stock during the revaluation). If there are any products for which you don't want to appropriate values now, you can deselect the "Valuate" column, and they will remain open in the list after you run the Stock Revaluation step. This column is automatically selected for items with values to appropriate and deselected for items with 0 appropriation value.

Absorption Costs: Stater	vent cycle 2022	/ September-2022 (D	stribution be	se Full Cost)									_ D ×
Absorption Costing	W3P	Consumed Assembles	s Su	mmary Cos	Centers not used in Pro	oduction	1						
# Document Position	zem	Description			Batch / Seral Numb	er Warehouse	Qty. to produce	Quantity	Weighting [%]	Appropriation (AC)	Appropriation (AC) total	Full Cost	Full Cost (
1 4012 10	PA185	Finished Steel P	ece_Pieza T	erminada de A	cen 20220915-003	QC	20,000	20,000	100,000	24,631,99	39,030,00	548,60	9
2 - 4012 20	SA156	Painted Steel Pi	ece 1_Pieza	Pintada de Ac	ero 20220915-002	01	20,000	20,000	100,000	8.794,26	0,00	338,00	
3 -> 4012 30	SA158	Painted Steel Pi	ece 2_Pieza	Pintada de Ac	ero 20220915-001	01	20,000	20,000	100,000	5.603,75	0,00	54,00	
										39.030,00	9.030,00	940,60	1
		Absorption C	osts (Stock r	evaluation): St	tement cycle 2022 / Sep	tember-2022 (Dist	ribution base: Full Cost)						
		Valuation da	ite	30/09/2022	1								
		Valuate	Document	Position	Rem	Description			Warehouse	Quantity	Appropriation AC) tota G/L	Increase Account	6/L
			4012	10	PA185	Finished Steel Piec	e_Pieza Terminada de l	Acero_Peca T	fem QC	20,00	39.030.00 SY	r\$0000000215	SY
			4012	20	SA156	Painted Steel Piece	e 1_Pieza Pintada de A	cero 1	01	20,00	0,00_51	r50000000215	SY
		i i	4012	30	SA158	Painted Steel Piece	2_Pieza Pintada de A	cero 2	01	20,00	0.00_51	50000000215	SY
				,				_					

Here is a summary of SAP's possible bookings for the Stock Revaluation process:

Revaluation Amount	Revaluation Quantity	Quantity in Stock	Stock Variation	COGS Variation
+1.000,00	100	100	+1.000,00	0,00
+1.000,00	100	50	+500,00	+500,00
+1.000,00	100	0	0,00	+1.000,00

Important note: There is no cancellation option in SAP Business One for Stock Revaluations. If you ever need to cancel an absorption costing process, you can only do so by performing opposite revaluations through DTW.

3) Execute Stock Revaluation (Revert). This is not an optional step. You must execute Stock Revaluation (Revert) in order to complete the absorption costing process. This step removes from the manufactured products the costs added during the Beas's manufacturing products using the resources' cost rates. These costs are useful to keep the costs as close as possible to the costs after running absorption costing, but cannot remain afterwards, or products will have double costing.

Absorption Cost	ng	WIP	Consume	ed Assembles	Summ	ary Cost C	enters not used in	Production							
cument Position	Item	COCCUSION NO.	Descriptio	sri .	1. 20/10	Bato	h / Serial Number	Warehouse	Qty. to produce	Quantity	Weighting [%] A	opropriation (AC)	Appropriation (AC) total	Full Cost	Full Cost (Tot
4012 10	PA185		Finished S	Steel Piece_P	wza Terminada	de Acen 202	10915-003	QC	20,000	20,000	100,000	24.631,99	39.030,00	548,60	940,
4012 20	SA156		Painted 5	iteel Piece 1_	Pieza Pintada (le Acero 202	10915-002	01	20,000	20,000	100,000	8.794,26	0,00	338,00	/ 0,
4012 30	SA158		Painted 5	iteel Piece 2_	Pieza Pintada e	e Acero 202	0915-001	01	20,000	20,000	100,000	5.603,75	0,00	54,00	0,
												39.030,00	39.030,00	940,60	940,
				Absorption	Costs (Stock n	valuation - Re	vert): Statement cy	cle 2022 / Septer	mber-2022 (Distributi	on base: Full C	ost)			/	
				Valuation	date	30/09/2022								/	
				Valuate	Document	Position	Item	Description			Wareho	ise Quantity	Full Cy	otal) G/L Increase Account	6/L Decre
					4012	10	PA185	Finished St	eel Piece_Pieza Terma	ada de Acero	Peça Tem QC		20,000 94	0,60_51500000000091	_\$Y\$0000
					4012	20	SA156	Painted St	eel Piece 1_Pieza Pinta	da de Acero 1	1 01		20,000	0,00_5750000000091	_\$Y\$0000
				U	1912		2012/0						20,000	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	_3 13000
				Cano	el Sta	a Alb	ark Delete	marks	Cosed Stock revaius	tions					5
<															-
Search	Etter		Cancel	Remo	we Bo	oking Cost Tr	ensfer	Stock revaluation	n Stoc	k revaluation ((Revert)				1

Here is a summary of SAP's possible bookings for the Stock Revaluation (Revert) process:

Revaluation Amount	Revaluation Quantity	Quantity in Stock	Stock Variation	COGS Variation
-1.000,00	100	100	-1.000,00	0,00
-1.000,00	100	50	-500,00	-500,00
-1.000,00	100	0	0,00	-1.000,00

Important note: There is no cancellation option in SAP Business One for Stock Revaluations. If you ever need to cancel an absorption costing process, you can only do so by performing opposite revaluations through DTW.

BEAS MANUFACTURING WORKFLOW – AFTER ABSORPTION COSTING

If you reached this topic, you should have probably executed absorption costing successfully for your company. Congratulations! If not, please review the previous topics and make sure that you haven't forgot anything, as any detail left behind can represent potential unwanted differences in your accounting numbers.

When the three absorption costing steps are completed, you can stop right where you are if this is your decision—all product costs should be correct and the only remaining open values should be due to active work orders without production receipts in the month. However, going through a few more steps can guarantee a more accurate system for the future. After all, now that you know exactly how much each one of your direct Cost Centres costed you for all their manufacturing activities, why not updating their cost rates so to keep your products even closer to the actual costs when closing the next months?

Understanding the resources' actual costs rates after absorption costing and updating them according to the new rates is precisely what we will review in this topic.

 Open the Cost Rate Trend report. This report brings the actual appropriated cost for each direct Cost Centre and dividing it by the number or work hours gives you their actual hourly rates for marginal and full costs (columns "Hourly Rate (MargCosts)" and "Hourly Rate (Full Costs)"). For comparison purposes, you can check the costs according to their current hourly rates on "Lmc-real (MargCosts)" and "Lmc-real (Full Costs)".

Important note: If you want Beas to calculate actual cost rates for each resource, you must link each one of them to a specific direct Cost Centre.

Co	st Rate Trend: 2	022								
#	Cost Center	Accounting month	Month/year	Marginal Cost	Full Cost	Hours	Hourly Rate (MargCosts)	Hourly Rate (Full Costs)	Lmc-real (MargCosts)	Lmc-real (Full Costs)
1	0B002	9	September-2022	5.603,75	5.603,75	3,33	1.682,81	1.682,81	26,00	54,00
2	0B005	9	September-2022	8.794,26	8.794,26	10,83	812,03	812,03	292,50	338,00
3	0B007	9	September-2022	0,00	0,00	0,00	0,00	0,00		
4	08008	9	September-2022	4.497,44	4.497,44	0,83	5.418,60	5.418,60	2,50	3,50
5	0B015	9	September-2022	9.421,60	9.421,60	3,00	3.140,53	3.140,53	45,00	57,60
6	0B016	9	September-2022	10.712,95	10.712,95	4,17	2.569,05	2.569,05	437,50	487,50
7	08028	9	September-2022	0,00	0,00	0,00	0,00	0,00		

2) Create the following SQL View on your database. SQL Views are an easy way to pre-set queries to retrieve data again and again without having to rewrite them. So, you can select data directly from the SQL View and it will bring values related to all the tables inside it.

```
CREATE VIEW [db0].[BEASV_AC_RESOURCERATES] AS
SELECT
T0."ResourceID",
CONCAT('Absorption Costing calculation from ',T0."Memo") AS "Memo",
COALESCE(T0."WarginalCostRatePerHour",0) AS "MarginalCostRatePerHour",
COALESCE(T0."WarginalCostRatePerHour",0) AS "MarginalCostRatePerHour",
COALESCE(T0."FullCostRatePerHour",0) AS "FullCostRatePerHour",
COALESCE(T0."FastD0", AS "ResourceID",
CSELECT CONCAT(T0."ABR_ID",RIGHT(CONCAT('00',T0."MONAT"),2))) FROM "BEAS_BAB_KOSTENSAETZE" T1 WHERE T1."EFF_STD">0
AND T1."VK:"0 AND T1."KST_NR"=T0."KST_NR") AND T0 "KST_NR"=BEAS_APLATZ"."KSTST_ID") AS "Memo",
CSELECT CASE WHEN T0."KST_NR":T0."AS "FullCostRatePerHour",
CSELECT CASE WHEN T0."KST_NR":T0."KST_NR":TESTD0", CSELECT
MAX(CONCAT(T1."ABR_ID",RIGHT(CONCAT('00',T1."MONAT"),2))) FROM "BEAS_BAB_KOSTENSAETZE" T1 WHERE T1."EFF_STD">0
AND T1."VK:"0 AND T1."KST_NR"=T0."KST_NR") AND T0."KST_NR"="BEAS_APLATZ"."KSTST_ID") AS "FullCostRatePerHour",
CSELECT CASE WHEN T0."EFF_STD">0
THEN T0."KST_NR":T0."KST_NR":T0."KST_NR"=TEAS_APLATZ"."KSTST_ID") AS "
```

4) Check the Preview (if desired) and process the data importing. Remember that if you have more resources linked to the same direct Cost Centre, their costs will also be updated even if they haven't taken part in the absorption costing process. This can be avoided by having one direct Cost Centre for each resource.

Data Integration Hul	b: definition [Version: 2022.04.00.	.08 SBO: 1000120 for M	SSC(L 0020162055)	Source - Target - Link [Vers	ion: 2022.04.00.08	SBO: 10	0120 for MSSQL	0020162055]		_ 🗆 X
1D	ResourcesCosts	Type	Import	Column Description	Column Name	Primary	Туре	Column Name Origin	Table Origin	
Target	master data Resources	BEAS_APLATZ		Resource	APLATZ_ID		From table	resourceid		
Description	[Fnal] Resources' Costs ba	sed on Absorption Co	ting	Full Cost	VOLLKSTBED		From table	fulcostrateperminute	kst_nr	
Update Type	Insert+Update		bmp\/mport.png	Marginal Cost	GKBED		From table	marginalcostratepermin	mem	
				Userfield 3	UDF3		From table	memo	eff_cst	
				Location	STANDORT		No		resourceid	
File Columns Extended			Branch	BPLName		No		memo		
File Type	COBC	*	0	Service / registrer costs	AUSWAERTSB		No		marginalcostrateperhour	
File name	SELECT * FROM (BEAS	SV AC RESOURCERAT	TES] • 0	Employee panner	SACHB_ID		No		margnalcostrateperminute	
sn		Capacity planning	KAPAPLANUN		No		fulcostrateperhour			
06003;Abs	sorption Costing calculation fro	om 2021/07;43625;73	7;43625;727;	Cinversion	rom table esourceid	•				3
¢ QK	Cancel Remove	Preview Sc	urce - Target - Link	ок с	ancel Sea	rch	Go On Search	Automatch	¢	-

3) Create a Data Integration Hub scenario for resources master data retrieving information from the SQL View ("SELECT * FROM [BEASV_AC_RESOURCERATES]") and match the highlighted fields (choose between rate per minute and rate per hours according to how you configure your resource cost rates).

Resource	i un coat	marymar cost	Vaci liciu v
0B002	28,046800	28,046800	Absorption Costing calculation from 2022/09
0B005	13,533800	13,533800	Absorption Costing calculation from 2022/09
08008	90,310000	90,310000	Absorption Costing calculation from 2022/09
0B015	52,342200	52,342200	Absorption Costing calculation from 2022/09
0B016	42,817500	42,817500	Absorption Costing calculation from 2022/09
0B044	42,817500	42,817500	Absorption Costing calculation from 2022/09

Data Integration	Hub [Version: 2022	.04.00.08 SBO: 1000120 for MSSQL 002016	5]			
# Type	Range	Table Structure	ID	Description Stat	us	
12 🛃 Import	master data	[- Resources	ResourcesCosts	[Final] Resources' Costs based on Absorption Cos		
¢			\sim			
Search	Eiter	Edit Cancel	ew Remove Duplicate Start J	mport Open Hub Templates		



Who is Boyum Solutions?

Boyum IT Solutions is a global award-winning SAP Business One development and consultancy house. We have the largest partner and customer ecosystems, with a presence in 115 countries and just over 9,000 customers and 200,000 users.



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