

HALCYON METALWORKS KFT.

MONTH END COST CENTRE REPORTING

Excel and VBA automation | before and after | June 2026 (period 006)
Illustrative portfolio sample - fictional company and fictional data

Prepared by

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Files in this sample

Before workbook, after workbook, .bas sour

THE PROBLEM

Twelve cost centres, one SAP extract, one budget file in a different shape, and twelve managers who each need their own pack by working day four. The analyst who did it left a 23 step handover note, which is in the before workbook. The routine took about four hours a month, lived in one person's head, and had no record of what had been run. In June it understated one cost centre by EUR 7,300 because a SUM range stopped three rows short of the end of a pasted block. Nothing looked wrong: no error value, no red cell, just a total that was quietly too low, found by the cost centre owner rather than by the pack.

BEFORE AND AFTER			
	Manual routine	Automated tool	
Time from extract to twelve packs	4.2 hours on average, more when the extract is re-run		Three seconds of run time. What is left is reading the exceptions and writing the commentary
Steps performed by hand	23, in a specific order		One button
Where the mapping lives	Half on a notes tab, half in one person's head		One table on the Mapping sheet
Unmapped accounts	Guessed at, or left out of the pack		Staged, flagged, and still inside the control total
Exception checks	Whatever the analyst happened to notice		Five rules applied to every line, every run
Evidence the pack is complete	A check that was out most months and had stopped being looked at		Control total in against control total out. A difference fails the run
Audit trail	None		One row per run: who, when, from which file, how many lines, control totals
If the analyst is on holiday	The pack does not go out		Anyone with the file and the two paths can run it
The June understatement	EUR 7,300, undetected for a month		Cannot happen: totals are SUMIFS over a staging table, not a dragged range

HOW IT WORKS	
1 Import	modImport opens the extract read only. It searches for the header row rather than assuming it, locates columns by name rather than by position, and parses SAP text amounts including the trailing minus sign.
2 Transform	modTransform maps accounts to reporting lines from the Mapping sheet, applies five exception rules and returns a clean array. Unmapped lines are kept, not dropped, so the control total still ties.
3 Stage	modOutput writes the staging table and the unpivoted budget in two array writes. The budget is never attached to a document line, which is how a monthly figure gets double counted.
4 Report	The report and the packs are worksheet formulas over those two tables. The macro does not calculate the report, so a reviewer can audit the logic without opening the VBA editor.
5 Burst	One pack per cost centre, driven by a single cell, converted to values and saved as CC_code_period.xlsx.
6 Log	modLog appends one audit row with control totals in and out. If they do not agree within the tolerance on the Control Panel, the run raises an error and nothing is issued.

INSTALLING AND MAINTAINING IT

Install	Open the .bas file, create six standard modules with the names in its header, and paste each section in. No library references are needed: the dictionary is created late bound.
Set the paths	Three cells on the Control Panel: the extract, the budget file and the output folder.
Maintain	Add new accounts to the Mapping sheet. That is the whole of the maintenance.
Hand over	The Read Me, the Control Panel and the commented source are the handover. There is no 23 step note.

DISCLAIMER. A work sample. Halcyon Metalworks Kft. is fictional and so are the cost centres, accounts, suppliers, postings and budgets. No client data of any kind appears in these files. This workbook ships as .xlsx with the macro source alongside it, so it can be opened and read anywhere; the production version is a single macro enabled workbook. Prepared by Tarlan Charkasov, ACCA.

CONTROL PANEL

Halcyon Metalworks Kft. | Halcyon Cost Centre Reporting Tool v2.4 | the four buttons below are the entire user interface. Everything else on this sheet is a parameter.

RUN		
	RUN FULL CYCLE	modMain.RunFullCycle Import, validate, stage, refresh and burst the packs.
	VALIDATE ONLY	modMain.ValidateOnly Same import and mapping, no output. Run this before the ledger closes.
	CLEAR OUTPUTS	modMain.ClearOutputs Empties staging and budget so the file can be archived or circulated.

PARAMETERS		
Reporting period	2026-06	yyyy-mm. Drives the pack file names and the audit trail.
General ledger export	\\hm-fs01\finance\SAP extracts\2026-06\ZFI_CC_LINEITEM.xlsx	The raw extract. Not copied, not edited, read only.
Budget file	\\hm-fs01\finance\Planning\Budget FY2026 v3.xlsx	As issued by group planning, in its own layout.
Output folder	\\hm-fs01\finance\CC packs\2026-06	Where the twelve cost centre packs are written.
Burst cost centre packs	YES	YES or NO. NO stops at the report and writes nothing.
Control total tolerance	0.50	EUR. A difference above this fails the run rather than warning about it.

LAST RUN

Run at	03-Jul-26 14:30	<i>This sample ships as .xlsx with the macro source in a separate .bas file, so that it can be opened and read anywhere without a security warning. The production file is a single .xlsm.</i>
Result	OK	
Lines staged	530	
Control total difference	-	
<i>Run completed. 530 lines staged, 12 packs written, control totals agreed.</i>		

COST CENTRE REPORT - JUNE 2026 (PERIOD 006)

Halcyon Metalworks Kft. | EUR | every figure is a SUMIFS over the Staging and Budget tables. The macro moves data; the reporting logic stays here, in visible formulas.

A BY REPORTING LINE						
Reporting line	Actual	Budget	Variance	Var %	% of spend	Flag
Consumables & tooling	71,563	69,900	1,663	2.4%	6.6%	
Energy	132,204	125,100	7,104	5.7%	12.2%	over
Wages & salaries	316,374	303,300	13,074	4.3%	0.0%	
Social contributions	124,007	121,320	2,687	2.2%	0.0%	
Agency & temporary labour	72,745	47,000	25,745	54.8%	0.0%	over
Training & recruitment	16,218	11,700	4,518	38.6%	7.6%	over
Repairs & maintenance	97,900	76,500	21,400	28.0%	46.4%	over
Rent & facilities	27,472	26,800	672	2.5%	23.3%	
Freight & logistics	37,200	41,000	(3,800)	-9.3%	61.5%	under
IT & communication	25,061	22,000	3,061	13.9%	54.5%	over
Professional fees	27,719	14,400	13,319	92.5%	30.5%	over
Travel & entertainment	11,599	18,150	(6,551)	-36.1%	11.5%	under
Insurance	12,780	12,400	380	3.1%	56.8%	
Depreciation	108,308	108,400	(92)	-0.1%	186.2%	
UNMAPPED	4,856	-	4,856		10.7%	no budget
Total cost centre spend	1,086,005	997,970	88,035	8.8%	507.8%	

Control: total staged per the Staging tab 1,086,005.18 agreed

B BY COST CENTRE								
Cost centre	Actual	Budget	Variance	Var %	Owner			Status
4110 Machining - Cell A	213,315	204,200	9,115	4.5%	G. Nagy			
4120 Machining - Cell B	210,805	185,550	25,255	13.6%	G. Nagy			over 5%
4130 Turning & milling	117,989	119,300	(1,311)	-1.1%	P. Kovacs			
4140 Deburring & finishing	60,502	60,600	(98)	-0.2%	P. Kovacs			
4210 Quality assurance	45,981	44,800	1,181	2.6%	E. Szabo			
4220 Maintenance	90,776	68,920	21,856	31.7%	L. Toth			over 5%
4310 Logistics & warehouse	100,680	99,160	1,520	1.5%	M. Varga			
4320 Production planning	22,508	22,040	468	2.1%	M. Varga			
5110 Engineering	58,158	57,700	458	0.8%	A. Balogh			
5210 Sales & key accounts	45,394	51,900	(6,506)	-12.5%	R. Farkas			
6110 Finance & administration	96,488	83,800	12,688	15.1%	T. Charkasov			over 5%
6120 HR & training	21,260	-	21,260		K. Molnar			NO BUDGET
UNASSIGNED Not derived	2,150	-	2,150		-			NO BUDGET
Total	1,086,005	997,970	88,035	8.8%				

C VARIANCE BY COST CENTRE AND REPORTING LINE (ACTUAL LESS BUDGET, UNFAVOURABLE POSITIVE)															
Cost centre	Consumables & tooling	Energy	Wages & salaries	Social contributions	Agency & temporary labour	Training & recruitment	Repairs & maintenance	Rent & facilities	Freight & logistics	IT & communication	Professional fees	Travel & entertainment	Insurance	Depreciation	UNMAPPED
4110	31	6,560	1,936	236	(58)	(16)	(75)	0	0	(11)	0	(3)	0	515	0
4120	260	846	(1,497)	116	25,900	(12)	15	0	0	4	0	12	0	(390)	0
4130	(353)	(413)	361	(443)	(106)	11	181	0	0	(23)	0	(8)	0	(517)	0
4140	199	72	(68)	(225)	14	(16)	(126)	0	0	(6)	0	(2)	0	59	0

4210	1,519	17	16	(154)	0	(47)	3	0	0	27	(43)	(8)	0	(149)	0
4220	130	(14)	331	(25)	26	(26)	21,400	0	0	17	0	(10)	0	28	0
4310	(31)	37	650	(210)	(100)	(13)	(21)	119	(3,800)	(5)	0	(7)	0	47	4,856
4320	0	0	381	21	0	(1)	0	0	0	53	0	1	0	13	0
5110	(93)	0	825	(287)	69	(58)	23	0	0	41	23	(11)	0	(74)	0
5210	0	0	776	(243)	0	5	0	0	0	70	13	(7,100)	0	(27)	0
6110	0	0	(656)	42	0	32	0	554	0	(163)	12,500	(4)	380	4	0
6120	0	0	10,020	3,857	0	4,661	0	0	0	907	825	591	0	399	0
UNASSIGNED	0	0	0	0	0	0	0	0	0	2,150	0	0	0	0	0

The matrix carries a sub-cent index term so the ranking below can identify a unique cell. It does not affect any reported figure.

D THE TEN LARGEST UNFAVOURABLE VARIANCES (WRITTEN BY FORMULA, NOT BY HAND)										
	Reporting line	Cost centre	Variance	Actual	Budget	Owner				Comment required
1	Agency & temporary labour	4120	25,900	43,900	18,000	G. Nagy				yes
2	Repairs & maintenance	4220	21,400	52,400	31,000	L. Toth				yes
3	Professional fees	6110	12,500	21,500	9,000	T. Charkasov				yes
4	Wages & salaries	6120	10,020	10,020	-	K. Molnar				yes
5	Energy	4110	6,560	52,560	46,000	G. Nagy				yes
6	UNMAPPED	4310	4,856	4,856	-	M. Varga				
7	Training & recruitment	6120	4,661	4,661	-	K. Molnar				
8	Social contributions	6120	3,857	3,857	-	K. Molnar				
9	IT & communication	UNASSIGNED	2,150	2,150	-	-				
10	Wages & salaries	4110	1,936	59,936	58,000	G. Nagy				
Ten largest unfavourable variances, against the net total variance			93,839	106.6%	Above 100% because favourable variances elsewhere offset part of the overspend - which is itself the finding.					

COST CENTRE PACK

One cell drives this sheet. The macro sets it, calculates, copies the sheet to a new workbook, converts it to values and saves it as CC_<code>_<period>.xlsx. Twelve packs, one loop.

Cost centre

4120Machining - Cell B

Owner

G. Nagy

Period 2026-06

|

prepared by the reporting tool, run reference on the Audit Trail tab

SPEND AGAINST BUDGET					
Reporting line	Actual	Budget	Variance	Var %	Comment
Consumables & tooling	17,060	16,800	260	1.5%	
Energy	39,846	39,000	846	2.2%	
Wages & salaries	47,503	49,000	(1,497)	-3.1%	
Social contributions	19,716	19,600	116	0.6%	
Agency & temporary labour	43,900	18,000	25,900	143.9%	comment required
Training & recruitment	988	1,000	(12)	-1.2%	
Repairs & maintenance	12,515	12,500	15	0.1%	
Rent & facilities	-	-	-		
Freight & logistics	-	-	-		
IT & communication	804	800	4	0.5%	
Professional fees	-	-	-		
Travel & entertainment	362	350	12	3.5%	
Insurance	-	-	-		
Depreciation	28,110	28,500	(390)	-1.4%	
UNMAPPED	-	-	-		
Total	210,805	185,550	25,255	13.6%	

THE FIVE LARGEST VARIANCES ON THIS COST CENTRE						
	Reporting line	Variance	Actual	Budget	Var %	Owner action
1	Agency & temporary labour	25,900	43,900	18,000	143.9%	explain to the plant director
2	Energy	846	39,846	39,000	2.2%	
3	Consumables & tooling	260	17,060	16,800	1.5%	
4	Social contributions	116	19,716	19,600	0.6%	
5	Repairs & maintenance	15	12,515	12,500	0.1%	

OWNER COMMENTARY

Returned to finance by

Date

EXCEPTIONS - FIVE RULES, EVERY RUN

Counted by formula over the Staging tab, so the rules are visible to a reviewer and cannot drift from the macro without the control at the bottom of this sheet catching it.

RULES					
Rule	Lines	Value EUR	Severity	Status	What to do with it
Account not on the mapping table	3	4,855.50	High	review	Ask the GL team to reclassify, or add the account to the Mapping tab. Until then it sits in an UNMAPPED line on the report so the total still ties.
Posting with no cost centre	1	2,150.00	High	review	Cannot be reported to an owner. Send back to GL for a cost centre assignment before the pack is issued.
Same document posted twice	1	1,491.94	High	review	Same account, document number and amount. Confirm with GL whether it needs reversing.
Credit on an expense account	3	(4,220.40)	Medium	review	Usually a legitimate credit note, occasionally a posting in the wrong direction. Worth a look, not worth stopping the pack.
Spend with no budget line	17	23,409.88	Medium	review	The cost centre or line has actuals but the planning file has no budget for it. Without this flag the variance reads as a pure overspend.
Lines flagged, total	24	25,536.92	A line can break more than one rule, so the rule counts above do not add to this figure.		

CONTROLS OVER THE TOOL ITSELF					
Control	Expected	Actual		Status	Why it is here
Every macro flag re-derived on the sheet agrees with t	530.00	530.00	-	OK	The rules on this sheet are worksheet formulas written from the documented logic. If the macro ever drifts from the documentation, the two stop agreeing and this control fails.
Staged total agrees to the report	1,086,005.18	1,086,005.18	-	OK	The report is built from the staging table, so the two must be the same figure. This is the test the manual pack never passed.
Staged total agrees to the source export	1,086,005.18	1,086,005.18	-	OK	Control total in against control total out. A difference means a line was lost or double counted on import, and the run fails.
Every reported cost centre other than UNASSIGNED ha	12.00	12.00	-	OK	A pack that cannot be addressed to anyone will not be sent, and the spend on it will not be challenged. UNASSIGNED is excluded here because it is itself an exception, reported on the rule above.

STAGING TABLE - WRITTEN BY THE MACRO

Halcyon Metalworks Kft. | June 2026 (period 006) | columns B to J are written by modOutput.WriteStaging in a single array write. Columns K to M are the workbook re-deriving the macro's own flags and comparing them.

Cost centre	Account	Reporting line	Doc date	Doc no.	Text	Amount EUR	Flag (written by the macro)	Period	Rule string (re-derived on the sheet)	Flag re-derived	Agrees?
UNASSIGNED	550100	IT & communication	19-Jun-26	1900046262	Server hosting June - cost centre not derived	2,150.00	NO COST CENTRE NO BUDGET	2026-06	NO COST CENTRE NO BUDGET	NO COST CENTRE NO BUDGET	ok
4110	520300	Agency & temporary labour	01-Jun-26	1900045123	Agency operators wk 26 - Trenkwalder Kft.	1,581.09	OK	2026-06		OK	ok
4110	520200	Social contributions	01-Jun-26	1900045116	Social contribution June - Payroll journal	9,280.06	OK	2026-06		OK	ok
4110	530100	Repairs & maintenance	01-Jun-26	1900045135	Preventive maintenance visit - DMG Mori Service	1,480.42	OK	2026-06		OK	ok
4110	520300	Agency & temporary labour	01-Jun-26	1900045120	Agency operators wk 23 - Prohuman 2004 Kft.	1,712.79	OK	2026-06		OK	ok
4110	560110	Depreciation	01-Jun-26	1900045158	Depreciation June 2026 - Depreciation run AFA-06/2026	19,893.17	OK	2026-06		OK	ok
4110	510100	Energy	01-Jun-26	1900045062	Electricity June 2026 - MVM Next Energiakereskedo	4,321.27	OK	2026-06		OK	ok
4110	520120	Wages & salaries	02-Jun-26	1900045113	Overtime June - Payroll journal	4,020.30	OK	2026-06		OK	ok
4110	520110	Wages & salaries	03-Jun-26	1900045109	Overtime June - Payroll journal - correction	3,193.50	OK	2026-06		OK	ok
4110	510110	Energy	03-Jun-26	1900045041	Peak demand charge - E.ON Hungary	2,141.87	OK	2026-06		OK	ok
4110	530120	Repairs & maintenance	04-Jun-26	1900045130	Emergency callout - MRO Industrieservice	1,281.10	OK	2026-06		OK	ok
4110	530120	Repairs & maintenance	05-Jun-26	1900045146	Hydraulic hose set - Hidro-Tech Kft.	1,262.45	OK	2026-06		OK	ok
4110	550310	Travel & entertainment	06-Jun-26	1900045155	Customer visit Wolfsburg - Travel expense claim	397.10	OK	2026-06		OK	ok
4110	520110	Wages & salaries	07-Jun-26	1900045076	Overtime June - Payroll journal - correction	3,776.62	OK	2026-06		OK	ok
4110	520100	Wages & salaries	07-Jun-26	1900045104	Salaries June 2026 - Payroll journal - correction	2,327.52	OK	2026-06		OK	ok
4110	510100	Energy	07-Jun-26	1900045050	Electricity June 2026 - MVM Next Energiakereskedo	4,052.25	OK	2026-06		OK	ok
4110	510110	Energy	07-Jun-26	1900045072	Electricity June 2026 - MVM Next Energiakereskedo	2,325.06	OK	2026-06		OK	ok
4110	520300	Agency & temporary labour	07-Jun-26	1900045126	Agency operators wk 23 - Prohuman 2004 Kft.	1,201.11	OK	2026-06		OK	ok
4110	510100	Energy	07-Jun-26	1900045040	Peak demand charge - E.ON Hungary	4,419.92	OK	2026-06		OK	ok
4110	500210	Consumables & tooling	08-Jun-26	1900045033	Gauge blocks recalibration - Wurth Szerelvény Kft.	1,248.28	OK	2026-06		OK	ok
4110	510110	Energy	08-Jun-26	1900045054	Peak demand charge - MVM Next Energiakereskedo	3,778.13	OK	2026-06		OK	ok
4110	500210	Consumables & tooling	09-Jun-26	1900045022	Deburring media - Hoffmann Group	1,052.19	OK	2026-06		OK	ok
4110	520410	Training & recruitment	09-Jun-26	1900045128	Job advert - CNC setter - TUV Rheinland	1,183.52	OK	2026-06		OK	ok
4110	530100	Repairs & maintenance	09-Jun-26	1900045132	Preventive maintenance visit - DMG Mori Service	1,062.88	OK	2026-06		OK	ok
4110	500210	Consumables & tooling	09-Jun-26	1900045008	End mills 12mm - Hoffmann Group	1,325.02	OK	2026-06		OK	ok
4110	550120	IT & communication	10-Jun-26	1900045151	MES licence June - Microsoft Ireland	888.93	OK	2026-06		OK	ok
4110	520210	Social contributions	11-Jun-26	1900045114	Social contribution June - NAV contribution accrual	14,156.41	OK	2026-06		OK	ok
4110	510100	Energy	13-Jun-26	1900045056	Peak demand charge - E.ON Hungary	3,455.84	OK	2026-06		OK	ok
4110	510100	Energy	13-Jun-26	1900045061	Peak demand charge - E.ON Hungary	4,295.72	OK	2026-06		OK	ok
4110	520100	Wages & salaries	14-Jun-26	1900045084	Wages June 2026 - Payroll journal	2,805.43	OK	2026-06		OK	ok
4110	520130	Wages & salaries	14-Jun-26	1900045111	Shift premium June - Payroll journal	4,352.33	OK	2026-06		OK	ok
4110	500210	Consumables & tooling	14-Jun-26	1900045031	Deburring media - Precision Tooling Partners	1,029.83	OK	2026-06		OK	ok
4110	520300	Agency & temporary labour	14-Jun-26	1900045124	Agency operators wk 25 - Randstad Hungary	1,162.84	OK	2026-06		OK	ok
4110	510110	Energy	14-Jun-26	1900045043	Gas June 2026 - MVM Next Energiakereskedo	2,076.70	OK	2026-06		OK	ok
4110	500210	Consumables & tooling	14-Jun-26	1900045028	Coolant concentrate 200L - Precision Tooling Partners	1,079.47	OK	2026-06		OK	ok
4110	520130	Wages & salaries	15-Jun-26	1900045107	Wages June 2026 - Payroll journal	4,266.03	OK	2026-06		OK	ok
4110	560100	Depreciation	15-Jun-26	1900045157	Depreciation June 2026 - Depreciation run AFA-06/2026	13,622.03	OK	2026-06		OK	ok
4110	500210	Consumables & tooling	15-Jun-26	1900045005	Gauge blocks recalibration - Precision Tooling Partners	1,875.19	OK	2026-06		OK	ok
4110	530110	Repairs & maintenance	15-Jun-26	1900045142	Emergency callout - Hidro-Tech Kft.	1,819.22	OK	2026-06		OK	ok
4110	500210	Consumables & tooling	15-Jun-26	1900045034	Deburring media - Precision Tooling Partners	831.10	OK	2026-06		OK	ok
4110	500210	Consumables & tooling	16-Jun-26	1900045017	End mills 12mm - Wurth Szerelvény Kft.	1,179.09	OK	2026-06		OK	ok
4110	530120	Repairs & maintenance	16-Jun-26	1900045136	Emergency callout - MRO Industrieservice	1,493.11	OK	2026-06		OK	ok
4110	520130	Wages & salaries	16-Jun-26	1900045097	Wages June 2026 - Payroll journal	2,426.33	OK	2026-06		OK	ok
4110	510110	Energy	17-Jun-26	1900045066	Peak demand charge - E.ON Hungary	1,976.34	OK	2026-06		OK	ok
4110	520300	Agency & temporary labour	17-Jun-26	1900045127	Agency operators wk 26 - Randstad Hungary	804.20	OK	2026-06		OK	ok
4110	500210	Consumables & tooling	18-Jun-26	1900045018	Gauge blocks recalibration - Wurth Szerelvény Kft.	1,921.84	OK	2026-06		OK	ok
4110	520130	Wages & salaries	18-Jun-26	1900045081	Salaries June 2026 - Payroll journal	2,696.87	OK	2026-06		OK	ok
4110	520130	Wages & salaries	19-Jun-26	1900045080	Salaries June 2026 - Payroll journal - correction	3,016.67	OK	2026-06		OK	ok
4110	520100	Wages & salaries	19-Jun-26	1900045093	Salaries June 2026 - Payroll journal	3,675.61	OK	2026-06		OK	ok
4110	520300	Agency & temporary labour	20-Jun-26	1900045121	Agency operators wk 25 - Trenkwalder Kft.	1,479.86	OK	2026-06		OK	ok
4110	530110	Repairs & maintenance	20-Jun-26	1900045149	Emergency callout - DMG Mori Service	1,281.09	OK	2026-06		OK	ok
4110	510110	Energy	20-Jun-26	1900045055	Peak demand charge - MVM Next Energiakereskedo	2,234.60	OK	2026-06		OK	ok
4110	500210	Consumables & tooling	20-Jun-26	1900045024	Deburring media - Precision Tooling Partners	1,540.87	OK	2026-06		OK	ok
4110	530120	Repairs & maintenance	20-Jun-26	1900045138	Preventive maintenance visit - Hidro-Tech Kft.	1,645.28	OK	2026-06		OK	ok
4110	510100	Energy	20-Jun-26	1900045053	Gas June 2026 - E.ON Hungary	3,348.18	OK	2026-06		OK	ok
4110	520110	Wages & salaries	21-Jun-26	1900045088	Salaries June 2026 - Payroll journal	3,549.06	OK	2026-06		OK	ok
4110	510110	Energy	21-Jun-26	1900045073	Gas June 2026 - MVM Next Energiakereskedo	2,630.63	OK	2026-06		OK	ok
4110	500210	Consumables & tooling	21-Jun-26	1900045012	Deburring media - Wurth Szerelvény Kft.	2,043.80	OK	2026-06		OK	ok
4110	510100	Energy	22-Jun-26	1900045038	Peak demand charge - E.ON Hungary	3,718.76	OK	2026-06		OK	ok

STAGING TABLE - WRITTEN BY THE MACRO

Halcyon Metalworks Kft. | June 2026 (period 006) | columns B to J are written by modOutput.WriteStaging in a single array write. Columns K to M are the workbook re-deriving the macro's own flags and comparing them.

Cost centre	Account	Reporting line	Doc date	Doc no.	Text	Amount EUR	Flag (written by the macro)	Period	Rule string (re-derived on the sheet)	Flag re-derived	Agrees?
4110	510110	Energy	22-Jun-26	1900045046	Peak demand charge - MVM Next Energiakereskedo	1,811.78	OK	2026-06		OK	ok
4110	500200	Consumables & tooling	22-Jun-26	1900045030	End mills 12mm - Hoffmann Group	1,068.49	OK	2026-06		OK	ok
4110	530110	Repairs & maintenance	22-Jun-26	1900045134	Spindle bearing replacement M7 - Hidro-Tech Kft.	1,570.50	OK	2026-06		OK	ok
4110	520110	Wages & salaries	24-Jun-26	1900045083	Wages June 2026 - Payroll journal - correction	4,227.11	OK	2026-06		OK	ok
4110	520120	Wages & salaries	24-Jun-26	1900045103	Salaries June 2026 - Payroll journal	2,831.17	OK	2026-06		OK	ok
4110	510100	Energy	25-Jun-26	1900046264	Energy rebate Q1 - MVM Next Energiakereskedo	(1,240.00)	CREDIT	2026-06	CREDIT	CREDIT	ok
4110	520130	Wages & salaries	25-Jun-26	1900045085	Wages June 2026 - Payroll journal	2,411.05	OK	2026-06		OK	ok
4110	520100	Wages & salaries	25-Jun-26	1900045077	Overtime June - Payroll journal - correction	3,767.46	OK	2026-06		OK	ok
4110	510110	Energy	28-Jun-26	1900045044	Gas June 2026 - E.ON Hungaria	2,144.52	OK	2026-06		OK	ok
4110	530120	Repairs & maintenance	29-Jun-26	1900045140	Emergency callout - DMG Mori Service	1,029.22	OK	2026-06		OK	ok
4110	500200	Consumables & tooling	29-Jun-26	1900045002	Coolant concentrate 200L - Wurth Szerelveny Kft.	1,974.88	OK	2026-06		OK	ok
4110	500210	Consumables & tooling	29-Jun-26	1900045014	Gauge blocks recalibration - Hoffmann Group	1,360.70	OK	2026-06		OK	ok
4110	510100	Energy	29-Jun-26	1900045059	Electricity June 2026 - E.ON Hungaria	2,125.66	OK	2026-06		OK	ok
4110	510100	Energy	29-Jun-26	1900045070	Gas June 2026 - MVM Next Energiakereskedo	2,942.77	OK	2026-06		OK	ok
4110	520110	Wages & salaries	30-Jun-26	1900045091	Salaries June 2026 - Payroll journal - correction	2,776.73	OK	2026-06		OK	ok
4110	520120	Wages & salaries	30-Jun-26	1900045101	Shift premium June - Payroll journal - correction	3,815.91	OK	2026-06		OK	ok
4120	510100	Energy	01-Jun-26	1900045193	Peak demand charge - MVM Next Energiakereskedo	2,626.55	OK	2026-06		OK	ok
4120	550300	Travel & entertainment	01-Jun-26	1900045341	Mileage claim - Danubius Hotels	362.22	OK	2026-06		OK	ok
4120	520130	Wages & salaries	01-Jun-26	1900045232	Overtime June - Payroll journal - correction	2,468.89	OK	2026-06		OK	ok
4120	530110	Repairs & maintenance	01-Jun-26	1900045316	Hydraulic hose set - DMG Mori Service	934.67	OK	2026-06		OK	ok
4120	520300	Agency & temporary labour	01-Jun-26	1900045279	Agency operators wk 25 - Trenkwalder Kft.	3,018.85	OK	2026-06		OK	ok
4120	510110	Energy	02-Jun-26	1900045197	Electricity June 2026 - E.ON Hungaria	2,344.71	OK	2026-06		OK	ok
4120	500200	Consumables & tooling	02-Jun-26	1900045183	Deburring media - Hoffmann Group	1,286.84	OK	2026-06		OK	ok
4120	510100	Energy	02-Jun-26	1900045207	Electricity June 2026 - E.ON Hungaria	2,404.32	OK	2026-06		OK	ok
4120	530110	Repairs & maintenance	02-Jun-26	1900045335	Emergency callout - Hidro-Tech Kft.	1,154.30	OK	2026-06		OK	ok
4120	500200	Consumables & tooling	03-Jun-26	1900045186	Gauge blocks recalibration - Precision Tooling Partners	1,855.36	OK	2026-06		OK	ok
4120	520300	Agency & temporary labour	03-Jun-26	1900045276	Agency operators wk 24 - Prohuman 2004 Kft.	3,398.29	OK	2026-06		OK	ok
4120	520300	Agency & temporary labour	03-Jun-26	1900045298	Agency operators wk 26 - Randstad Hungary	2,865.70	OK	2026-06		OK	ok
4120	520400	Training & recruitment	04-Jun-26	1900045314	ISO 9001 internal auditor course - Profession.hu	988.02	OK	2026-06		OK	ok
4120	510110	Energy	04-Jun-26	1900045220	Peak demand charge - MVM Next Energiakereskedo	1,760.02	OK	2026-06		OK	ok
4120	530100	Repairs & maintenance	05-Jun-26	1900045327	Emergency callout - MRO Industrieservice	1,599.81	OK	2026-06		OK	ok
4120	520100	Wages & salaries	05-Jun-26	1900045251	Overtime June - Payroll journal	3,270.41	OK	2026-06		OK	ok
4120	500210	Consumables & tooling	05-Jun-26	1900045159	Carbide inserts CNMG - Wurth Szerelveny Kft.	1,806.18	OK	2026-06		OK	ok
4120	500200	Consumables & tooling	06-Jun-26	1900045174	Gauge blocks recalibration - Wurth Szerelveny Kft.	862.12	OK	2026-06		OK	ok
4120	520300	Agency & temporary labour	06-Jun-26	1900045294	Agency operators wk 23 - Prohuman 2004 Kft.	3,059.26	OK	2026-06		OK	ok
4120	510100	Energy	06-Jun-26	1900045211	Peak demand charge - E.ON Hungaria	2,750.45	OK	2026-06		OK	ok
4120	550100	IT & communication	07-Jun-26	1900045338	Helpdesk retainer - Microsoft Ireland	804.38	OK	2026-06		OK	ok
4120	520120	Wages & salaries	08-Jun-26	1900045247	Shift premium June - Payroll journal	2,197.94	OK	2026-06		OK	ok
4120	520200	Social contributions	08-Jun-26	1900045268	Vocational levy June - NAV contribution accrual	6,649.93	OK	2026-06		OK	ok
4120	530100	Repairs & maintenance	08-Jun-26	1900045325	Hydraulic hose set - MRO Industrieservice	1,645.06	OK	2026-06		OK	ok
4120	530120	Repairs & maintenance	09-Jun-26	1900045318	Emergency callout - Hidro-Tech Kft.	771.51	OK	2026-06		OK	ok
4120	510100	Energy	09-Jun-26	1900045209	Electricity June 2026 - MVM Next Energiakereskedo	2,477.98	OK	2026-06		OK	ok
4120	530120	Repairs & maintenance	09-Jun-26	1900045321	Emergency callout - MRO Industrieservice	1,338.69	OK	2026-06		OK	ok
4120	520300	Agency & temporary labour	09-Jun-26	1900046268	Agency credit note wk 21 - Trenkwalder Kft.	(2,300.00)	CREDIT	2026-06	CREDIT	CREDIT	ok
4120	520110	Wages & salaries	10-Jun-26	1900045231	Overtime June - Payroll journal - correction	1,864.16	OK	2026-06		OK	ok
4120	520120	Wages & salaries	11-Jun-26	1900045260	Overtime June - Payroll journal - correction	2,799.15	OK	2026-06		OK	ok
4120	530120	Repairs & maintenance	11-Jun-26	1900045329	Spindle bearing replacement M7 - MRO Industrieservice	1,674.22	OK	2026-06		OK	ok
4120	520300	Agency & temporary labour	11-Jun-26	1900045293	Agency operators wk 24 - Randstad Hungary	2,486.64	OK	2026-06		OK	ok
4120	500210	Consumables & tooling	12-Jun-26	1900045178	End mills 12mm - Precision Tooling Partners	1,447.92	OK	2026-06		OK	ok
4120	520200	Social contributions	12-Jun-26	1900045269	Vocational levy June - NAV contribution accrual	13,065.73	OK	2026-06		OK	ok
4120	520300	Agency & temporary labour	12-Jun-26	1900045281	Agency operators wk 26 - Prohuman 2004 Kft.	1,956.35	OK	2026-06		OK	ok
4120	500200	Consumables & tooling	12-Jun-26	1900045179	Deburring media - Wurth Szerelveny Kft.	1,802.24	OK	2026-06		OK	ok
4120	520300	Agency & temporary labour	12-Jun-26	1900045270	Agency operators wk 25 - Randstad Hungary	2,733.23	OK	2026-06		OK	ok
4120	520300	Agency & temporary labour	13-Jun-26	1900045306	Agency operators wk 23 - Randstad Hungary	2,734.53	OK	2026-06		OK	ok
4120	520300	Agency & temporary labour	13-Jun-26	1900045304	Agency operators wk 24 - Prohuman 2004 Kft.	3,684.93	OK	2026-06		OK	ok
4120	520120	Wages & salaries	13-Jun-26	1900045248	Shift premium June - Payroll journal	2,724.80	OK	2026-06		OK	ok
4120	520120	Wages & salaries	13-Jun-26	1900045241	Salaries June 2026 - Payroll journal	3,669.09	OK	2026-06		OK	ok
4120	520130	Wages & salaries	14-Jun-26	1900045227	Salaries June 2026 - Payroll journal - correction	3,721.55	OK	2026-06		OK	ok
4120	520120	Wages & salaries	14-Jun-26	1900045229	Wages June 2026 - Payroll journal	1,759.83	OK	2026-06		OK	ok

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Cost centre	Account	Reporting line	Doc date	Doc no.	Text	Amount EUR	Flag (written by the macro)	Period	Rule string (re-derived on the sheet)	Flag re-derived	Agrees?
4120	510110	Energy	14-Jun-26	1900045217	Electricity June 2026 - E.ON Hungaria	1,909.39	OK	2026-06		OK	ok
4120	520100	Wages & salaries	15-Jun-26	1900045244	Wages June 2026 - Payroll journal	1,522.64	OK	2026-06		OK	ok
4120	510100	Energy	15-Jun-26	1900045204	Peak demand charge - E.ON Hungaria	2,282.58	OK	2026-06		OK	ok
4120	500200	Consumables & tooling	15-Jun-26	1900045168	Deburring media - Hoffmann Group	1,063.88	OK	2026-06		OK	ok
4120	520300	Agency & temporary labour	16-Jun-26	1900045310	Agency operators wk 25 - Trenkwalder Kft.	2,138.87	OK	2026-06		OK	ok
4120	510100	Energy	17-Jun-26	1900045200	Electricity June 2026 - MVM Next Energiakereskedo	2,595.20	OK	2026-06		OK	ok
4120	560110	Depreciation	17-Jun-26	1900045345	Depreciation June 2026 - Depreciation run AFA-06/2026	12,520.89	OK	2026-06		OK	ok
4120	520300	Agency & temporary labour	18-Jun-26	1900045291	Agency operators wk 26 - Randstad Hungary	2,669.12	OK	2026-06		OK	ok
4120	510100	Energy	18-Jun-26	1900045208	Electricity June 2026 - E.ON Hungaria	2,465.51	OK	2026-06		OK	ok
4120	500210	Consumables & tooling	18-Jun-26	1900045162	Gauge blocks recalibration - Hoffmann Group	1,907.57	OK	2026-06		OK	ok
4120	510110	Energy	18-Jun-26	1900045215	Peak demand charge - E.ON Hungaria	2,291.67	OK	2026-06		OK	ok
4120	500200	Consumables & tooling	18-Jun-26	1900045173	Deburring media - Wurth Szerelveny Kft.	1,143.98	OK	2026-06		OK	ok
4120	560110	Depreciation	19-Jun-26	1900045347	Depreciation June 2026 - Depreciation run AFA-06/2026	15,589.11	OK	2026-06		OK	ok
4120	530100	Repairs & maintenance	19-Jun-26	1900045320	Emergency callout - Hidro-Tech Kft.	1,767.13	OK	2026-06		OK	ok
4120	510110	Energy	19-Jun-26	1900045189	Gas June 2026 - E.ON Hungaria	2,034.32	OK	2026-06		OK	ok
4120	520100	Wages & salaries	20-Jun-26	1900045239	Shift premium June - Payroll journal - correction	2,059.93	OK	2026-06		OK	ok
4120	520100	Wages & salaries	21-Jun-26	1900045235	Wages June 2026 - Payroll journal	2,672.96	OK	2026-06		OK	ok
4120	520300	Agency & temporary labour	21-Jun-26	1900045284	Agency operators wk 24 - Trenkwalder Kft.	1,617.22	OK	2026-06		OK	ok
4120	530110	Repairs & maintenance	22-Jun-26	1900045332	Preventive maintenance visit - MRO Industrieservice	1,629.47	OK	2026-06		OK	ok
4120	510100	Energy	22-Jun-26	1900045191	Gas June 2026 - E.ON Hungaria	2,724.42	OK	2026-06		OK	ok
4120	520300	Agency & temporary labour	22-Jun-26	1900045274	Agency operators wk 23 - Prohuman 2004 Kft.	3,050.64	OK	2026-06		OK	ok
4120	520100	Wages & salaries	22-Jun-26	1900045266	Salaries June 2026 - Payroll journal - correction	2,189.02	OK	2026-06		OK	ok
4120	520110	Wages & salaries	24-Jun-26	1900045264	Wages June 2026 - Payroll journal - correction	3,289.31	OK	2026-06		OK	ok
4120	500200	Consumables & tooling	24-Jun-26	1900045172	Carbide inserts CNMG - Precision Tooling Partners	1,338.32	OK	2026-06		OK	ok
4120	520300	Agency & temporary labour	24-Jun-26	1900045297	Agency operators wk 26 - Randstad Hungary	2,490.19	OK	2026-06		OK	ok
4120	500200	Consumables & tooling	25-Jun-26	1900045185	End mills 12mm - Precision Tooling Partners	1,439.69	OK	2026-06		OK	ok
4120	510110	Energy	25-Jun-26	1900045210	Electricity June 2026 - E.ON Hungaria	1,643.12	OK	2026-06		OK	ok
4120	510110	Energy	26-Jun-26	1900045226	Electricity June 2026 - E.ON Hungaria	1,215.84	OK	2026-06		OK	ok
4120	520110	Wages & salaries	26-Jun-26	1900045246	Overtime June - Payroll journal - correction	1,813.34	OK	2026-06		OK	ok
4120	520300	Agency & temporary labour	26-Jun-26	1900045272	Agency operators wk 26 - Trenkwalder Kft.	1,580.79	OK	2026-06		OK	ok
4120	520300	Agency & temporary labour	26-Jun-26	1900045300	Agency operators wk 24 - Prohuman 2004 Kft.	2,113.69	OK	2026-06		OK	ok
4120	500200	Consumables & tooling	26-Jun-26	1900045165	Deburring media - Hoffmann Group	1,105.84	OK	2026-06		OK	ok
4120	510110	Energy	28-Jun-26	1900045224	Peak demand charge - E.ON Hungaria	2,295.42	OK	2026-06		OK	ok
4120	520120	Wages & salaries	28-Jun-26	1900045254	Wages June 2026 - Payroll journal - correction	2,638.96	OK	2026-06		OK	ok
4120	520110	Wages & salaries	28-Jun-26	1900045256	Shift premium June - Payroll journal	3,479.40	OK	2026-06		OK	ok
4120	520300	Agency & temporary labour	28-Jun-26	1900045288	Agency operators wk 23 - Trenkwalder Kft.	2,134.76	OK	2026-06		OK	ok
4120	510100	Energy	28-Jun-26	1900045221	Gas June 2026 - E.ON Hungaria	2,533.44	OK	2026-06		OK	ok
4120	520300	Agency & temporary labour	29-Jun-26	1900045282	Agency operators wk 26 - Prohuman 2004 Kft.	2,466.94	OK	2026-06		OK	ok
4120	510110	Energy	29-Jun-26	1900045212	Gas June 2026 - E.ON Hungaria	1,491.35	OK	2026-06		OK	ok
4120	520120	Wages & salaries	29-Jun-26	1900045245	Overtime June - Payroll journal - correction	3,362.04	OK	2026-06		OK	ok
4130	520120	Wages & salaries	01-Jun-26	1900045430	Shift premium June - Payroll journal - correction	1,916.44	OK	2026-06		OK	ok
4130	530100	Repairs & maintenance	01-Jun-26	1900045464	Emergency callout - MRO Industrieservice	1,024.21	OK	2026-06		OK	ok
4130	520120	Wages & salaries	02-Jun-26	1900045442	Shift premium June - Payroll journal - correction	1,393.58	OK	2026-06		OK	ok
4130	510100	Energy	02-Jun-26	1900045378	Gas June 2026 - MVM Next Energiakereskedo	1,134.11	OK	2026-06		OK	ok
4130	500210	Consumables & tooling	02-Jun-26	1900045360	End mills 12mm - Wurth Szerelveny Kft.	1,314.47	OK	2026-06		OK	ok
4130	510100	Energy	02-Jun-26	1900045407	Peak demand charge - E.ON Hungaria	1,163.14	OK	2026-06		OK	ok
4130	520130	Wages & salaries	03-Jun-26	1900045444	Shift premium June - Payroll journal	2,735.90	OK	2026-06		OK	ok
4130	520110	Wages & salaries	03-Jun-26	1900045434	Shift premium June - Payroll journal - correction	2,644.87	OK	2026-06		OK	ok
4130	510100	Energy	03-Jun-26	1900045388	Gas June 2026 - MVM Next Energiakereskedo	1,071.63	OK	2026-06		OK	ok
4130	500200	Consumables & tooling	03-Jun-26	1900045364	Coolant concentrate 200L - Precision Tooling Partners	1,618.03	OK	2026-06		OK	ok
4130	500200	Consumables & tooling	04-Jun-26	1900045351	Gauge blocks recalibration - Hoffmann Group	1,848.08	OK	2026-06		OK	ok
4130	550310	Travel & entertainment	04-Jun-26	1900045484	Customer visit Stuttgart - Danubius Hotels	291.96	OK	2026-06		OK	ok
4130	530120	Repairs & maintenance	04-Jun-26	1900045471	Hydraulic hose set - Hidro-Tech Kft.	1,502.67	OK	2026-06		OK	ok
4130	500210	Consumables & tooling	06-Jun-26	1900045356	End mills 12mm - Wurth Szerelveny Kft.	1,462.29	OK	2026-06		OK	ok
4130	530120	Repairs & maintenance	08-Jun-26	1900045479	Preventive maintenance visit - Hidro-Tech Kft.	863.05	OK	2026-06		OK	ok
4130	520300	Agency & temporary labour	08-Jun-26	1900045455	Agency operators wk 25 - Trenkwalder Kft.	1,643.55	OK	2026-06		OK	ok
4130	530120	Repairs & maintenance	09-Jun-26	1900045466	Spindle bearing replacement M7 - Hidro-Tech Kft.	2,090.26	OK	2026-06		OK	ok
4130	520120	Wages & salaries	09-Jun-26	1900045420	Wages June 2026 - Payroll journal - correction	1,277.52	OK	2026-06		OK	ok
4130	500200	Consumables & tooling	09-Jun-26	1900045358	Coolant concentrate 200L - Precision Tooling Partners	1,212.21	OK	2026-06		OK	ok

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4130	520300	Agency & temporary labour	09-Jun-26	1900045453	Agency operators wk 24 - Prohuman 2004 Kft.	1,187.99	OK	2026-06		OK	ok
4130	520200	Social contributions	09-Jun-26	1900045452	Vocational levy June - NAV contribution accrual	8,144.31	OK	2026-06		OK	ok
4130	510110	Energy	09-Jun-26	1900045389	Peak demand charge - MVM Next Energiakereskedo	926.67	OK	2026-06		OK	ok
4130	520110	Wages & salaries	10-Jun-26	1900045445	Shift premium June - Payroll journal - correction	1,484.73	OK	2026-06		OK	ok
4130	520120	Wages & salaries	10-Jun-26	1900045436	Overtime June - Payroll journal - correction	2,482.03	OK	2026-06		OK	ok
4130	520130	Wages & salaries	12-Jun-26	1900045432	Salaries June 2026 - Payroll journal - correction	1,174.61	OK	2026-06		OK	ok
4130	520110	Wages & salaries	12-Jun-26	1900045426	Shift premium June - Payroll journal	1,472.26	OK	2026-06		OK	ok
4130	510110	Energy	13-Jun-26	1900045404	Peak demand charge - E.ON Hungaria	951.85	OK	2026-06		OK	ok
4130	560100	Depreciation	13-Jun-26	1900045485	Depreciation June 2026 - Depreciation run AFA-06/2026	5,750.34	OK	2026-06		OK	ok
4130	510100	Energy	14-Jun-26	1900045394	Peak demand charge - MVM Next Energiakereskedo	1,775.48	OK	2026-06		OK	ok
4130	510100	Energy	14-Jun-26	1900045403	Gas June 2026 - E.ON Hungaria	1,554.43	OK	2026-06		OK	ok
4130	510100	Energy	14-Jun-26	1900045411	Peak demand charge - MVM Next Energiakereskedo	1,466.53	OK	2026-06		OK	ok
4130	510100	Energy	14-Jun-26	1900045398	Gas June 2026 - E.ON Hungaria	1,594.94	OK	2026-06		OK	ok
4130	520100	Wages & salaries	14-Jun-26	1900045413	Salaries June 2026 - Payroll journal	2,603.88	OK	2026-06		OK	ok
4130	520200	Social contributions	15-Jun-26	1900045449	Vocational levy June - Payroll journal	5,013.18	OK	2026-06		OK	ok
4130	510100	Energy	15-Jun-26	1900045373	Peak demand charge - E.ON Hungaria	1,252.13	OK	2026-06		OK	ok
4130	520130	Wages & salaries	15-Jun-26	1900045440	Wages June 2026 - Payroll journal - correction	2,605.30	OK	2026-06		OK	ok
4130	520110	Wages & salaries	15-Jun-26	1900045423	Salaries June 2026 - Payroll journal	1,299.57	OK	2026-06		OK	ok
4130	520300	Agency & temporary labour	16-Jun-26	1900045457	Agency operators wk 25 - Prohuman 2004 Kft.	1,362.65	OK	2026-06		OK	ok
4130	500210	Consumables & tooling	17-Jun-26	1900045368	Gauge blocks recalibration - Wurth Szerelveny Kft.	818.02	OK	2026-06		OK	ok
4130	530110	Repairs & maintenance	17-Jun-26	1900045477	Hydraulic hose set - MRO Industrieservice	1,914.53	OK	2026-06		OK	ok
4130	520100	Wages & salaries	17-Jun-26	1900045418	Wages June 2026 - Payroll journal - correction	2,487.42	OK	2026-06		OK	ok
4130	520300	Agency & temporary labour	17-Jun-26	1900045458	Agency operators wk 23 - Trenkwalder Kft.	1,199.35	OK	2026-06		OK	ok
4130	500210	Consumables & tooling	18-Jun-26	1900045359	Coolant concentrate 200L - Wurth Szerelveny Kft.	1,056.20	OK	2026-06		OK	ok
4130	500200	Consumables & tooling	19-Jun-26	1900045353	Carbide inserts CNMG - Precision Tooling Partners	1,524.02	OK	2026-06		OK	ok
4130	520400	Training & recruitment	20-Jun-26	1900045462	Forklift licence renewal - Lean Institute HU	810.52	OK	2026-06		OK	ok
4130	510100	Energy	20-Jun-26	1900045397	Electricity June 2026 - E.ON Hungaria	1,993.73	OK	2026-06		OK	ok
4130	520130	Wages & salaries	21-Jun-26	1900045415	Wages June 2026 - Payroll journal	1,796.12	OK	2026-06		OK	ok
4130	510110	Energy	23-Jun-26	1900045384	Gas June 2026 - E.ON Hungaria	1,472.87	OK	2026-06		OK	ok
4130	520130	Wages & salaries	23-Jun-26	1900045441	Overtime June - Payroll journal - correction	2,654.92	OK	2026-06		OK	ok
4130	500200	Consumables & tooling	23-Jun-26	1900046266	Return of unused coolant - Wurth Szerelveny Kft.	(680.40)	CREDIT	2026-06	CREDIT	CREDIT	ok
4130	510100	Energy	23-Jun-26	1900045370	Electricity June 2026 - MVM Next Energiakereskedo	892.34	OK	2026-06		OK	ok
4130	560110	Depreciation	24-Jun-26	1900045487	Depreciation June 2026 - Depreciation run AFA-06/2026	12,732.32	OK	2026-06		OK	ok
4130	520110	Wages & salaries	24-Jun-26	1900045427	Wages June 2026 - Payroll journal - correction	1,964.80	OK	2026-06		OK	ok
4130	510110	Energy	25-Jun-26	1900045374	Gas June 2026 - E.ON Hungaria	947.37	OK	2026-06		OK	ok
4130	510100	Energy	25-Jun-26	1900045399	Peak demand charge - E.ON Hungaria	2,060.60	OK	2026-06		OK	ok
4130	550110	IT & communication	26-Jun-26	1900045480	Mobile fleet June - Microsoft Ireland	676.93	OK	2026-06		OK	ok
4130	530110	Repairs & maintenance	27-Jun-26	1900045468	Emergency callout - MRO Industrieservice	841.93	OK	2026-06		OK	ok
4130	520120	Wages & salaries	27-Jun-26	1900045412	Shift premium June - Payroll journal - correction	1,050.09	OK	2026-06		OK	ok
4130	520120	Wages & salaries	28-Jun-26	1900045439	Salaries June 2026 - Payroll journal	1,316.75	OK	2026-06		OK	ok
4130	510110	Energy	28-Jun-26	1900045381	Electricity June 2026 - E.ON Hungaria	1,744.89	OK	2026-06		OK	ok
4130	510100	Energy	29-Jun-26	1900045392	Peak demand charge - MVM Next Energiakereskedo	1,584.09	OK	2026-06		OK	ok
4130	530110	Repairs & maintenance	30-Jun-26	1900045474	Preventive maintenance visit - Hidro-Tech Kft.	944.45	OK	2026-06		OK	ok
4130	500210	Consumables & tooling	30-Jun-26	1900045366	Gauge blocks recalibration - Precision Tooling Partners	1,874.38	OK	2026-06		OK	ok
4140	530100	Repairs & maintenance	03-Jun-26	1900045567	Preventive maintenance visit - MRO Industrieservice	909.06	OK	2026-06		OK	ok
4140	520120	Wages & salaries	03-Jun-26	1900045554	Wages June 2026 - Payroll journal	1,251.41	OK	2026-06		OK	ok
4140	510100	Energy	05-Jun-26	1900045509	Peak demand charge - E.ON Hungaria	890.23	OK	2026-06		OK	ok
4140	520400	Training & recruitment	06-Jun-26	1900045564	Forklift licence renewal - TUV Rheinland	483.52	OK	2026-06		OK	ok
4140	510100	Energy	07-Jun-26	1900045506	Electricity June 2026 - E.ON Hungaria	1,595.64	OK	2026-06		OK	ok
4140	530120	Repairs & maintenance	07-Jun-26	1900045569	Preventive maintenance visit - MRO Industrieservice	1,288.65	OK	2026-06		OK	ok
4140	520300	Agency & temporary labour	08-Jun-26	1900045558	Agency operators wk 24 - Trenkwalder Kft.	1,340.08	OK	2026-06		OK	ok
4140	520110	Wages & salaries	08-Jun-26	1900045532	Shift premium June - Payroll journal	1,800.51	OK	2026-06		OK	ok
4140	550110	IT & communication	08-Jun-26	1900045572	MES licence June - Magyar Telekom	494.17	OK	2026-06		OK	ok
4140	510100	Energy	09-Jun-26	1900045503	Electricity June 2026 - E.ON Hungaria	1,254.88	OK	2026-06		OK	ok
4140	510100	Energy	09-Jun-26	1900045516	Gas June 2026 - MVM Next Energiakereskedo	1,164.60	OK	2026-06		OK	ok
4140	520200	Social contributions	10-Jun-26	1900045556	Social contribution June - NAV contribution accrual	2,839.54	OK	2026-06		OK	ok
4140	520130	Wages & salaries	11-Jun-26	1900045553	Overtime June - Payroll journal	863.78	OK	2026-06		OK	ok
4140	510100	Energy	11-Jun-26	1900045504	Peak demand charge - MVM Next Energiakereskedo	1,298.84	OK	2026-06		OK	ok
4140	500210	Consumables & tooling	12-Jun-26	1900045495	End mills 12mm - Wurth Szerelveny Kft.	1,611.06	OK	2026-06		OK	ok

STAGING TABLE - WRITTEN BY THE MACRO

Halcyon Metalworks Kft. | June 2026 (period 006) | columns B to J are written by modOutput.WriteStaging in a single array write. Columns K to M are the workbook re-deriving the macro's own flags and comparing them.

Cost centre	Account	Reporting line	Doc date	Doc no.	Text	Amount EUR	Flag (written by the macro)	Period	Rule string (re-derived on the sheet)	Flag re-derived	Agrees?
4140	520130	Wages & salaries	12-Jun-26	1900045522	Overtime June - Payroll journal	1,787.40	OK	2026-06		OK	ok
4140	500200	Consumables & tooling	12-Jun-26	1900045492	Deburring media - Wurth Szerelveny Kft.	1,615.61	OK	2026-06		OK	ok
4140	520110	Wages & salaries	13-Jun-26	1900045544	Salaries June 2026 - Payroll journal - correction	1,040.10	OK	2026-06		OK	ok
4140	520130	Wages & salaries	13-Jun-26	1900045548	Salaries June 2026 - Payroll journal	1,023.02	OK	2026-06		OK	ok
4140	510100	Energy	15-Jun-26	1900045513	Electricity June 2026 - E.ON Hungaria	1,363.56	OK	2026-06		OK	ok
4140	520110	Wages & salaries	17-Jun-26	1900045537	Shift premium June - Payroll journal	1,309.04	OK	2026-06		OK	ok
4140	520110	Wages & salaries	18-Jun-26	1900045539	Salaries June 2026 - Payroll journal - correction	1,518.39	OK	2026-06		OK	ok
4140	520300	Agency & temporary labour	18-Jun-26	1900045563	Agency operators wk 24 - Prohuman 2004 Kft.	1,320.68	OK	2026-06		OK	ok
4140	520100	Wages & salaries	18-Jun-26	1900045526	Overtime June - Payroll journal - correction	1,780.74	OK	2026-06		OK	ok
4140	560100	Depreciation	19-Jun-26	1900045577	Depreciation June 2026 - Depreciation run AFA-06/2026	4,529.02	OK	2026-06		OK	ok
4140	520100	Wages & salaries	19-Jun-26	1900045519	Salaries June 2026 - Payroll journal	1,284.50	OK	2026-06		OK	ok
4140	530120	Repairs & maintenance	19-Jun-26	1900045568	Emergency callout - MRO Industrieservice	1,476.19	OK	2026-06		OK	ok
4140	520130	Wages & salaries	21-Jun-26	1900045530	Shift premium June - Payroll journal - correction	1,262.76	OK	2026-06		OK	ok
4140	560100	Depreciation	23-Jun-26	1900045576	Depreciation June 2026 - Depreciation run AFA-06/2026	2,030.45	OK	2026-06		OK	ok
4140	520300	Agency & temporary labour	24-Jun-26	1900045560	Agency operators wk 25 - Randstad Hungary	1,353.46	OK	2026-06		OK	ok
4140	520100	Wages & salaries	24-Jun-26	1900045551	Wages June 2026 - Payroll journal	2,099.83	OK	2026-06		OK	ok
4140	500200	Consumables & tooling	25-Jun-26	1900045498	End mills 12mm - Precision Tooling Partners	1,468.35	OK	2026-06		OK	ok
4140	500200	Consumables & tooling	25-Jun-26	1900045491	Carbide inserts CNMG - Precision Tooling Partners	1,017.26	OK	2026-06		OK	ok
4140	550300	Travel & entertainment	26-Jun-26	1900045573	Hotel - audit team - Travel expense claim	197.61	OK	2026-06		OK	ok
4140	520200	Social contributions	27-Jun-26	1900045555	Social contribution June - NAV contribution accrual	5,335.91	OK	2026-06		OK	ok
4140	510110	Energy	27-Jun-26	1900045502	Gas June 2026 - MVM Next Energiakereskedo	2,004.23	OK	2026-06		OK	ok
4140	520110	Wages & salaries	27-Jun-26	1900045540	Salaries June 2026 - Payroll journal	945.54	OK	2026-06		OK	ok
4140	520130	Wages & salaries	29-Jun-26	1900045536	Wages June 2026 - Payroll journal - correction	2,067.34	OK	2026-06		OK	ok
4140	500200	Consumables & tooling	29-Jun-26	1900045500	Gauge blocks recalibration - Wurth Szerelveny Kft.	687.21	OK	2026-06		OK	ok
4140	520120	Wages & salaries	29-Jun-26	1900045549	Shift premium June - Payroll journal - correction	898.07	OK	2026-06		OK	ok
4210	500200	Consumables & tooling	01-Jun-26	1900045579	Deburring media - Precision Tooling Partners	1,491.94	OK	2026-06		OK	ok
4210	500200	Consumables & tooling	01-Jun-26	1900045579	Deburring media - Precision Tooling Partners	1,491.94	DUPLICATE	2026-06	DUPLICATE	DUPLICATE	ok
4210	520110	Wages & salaries	03-Jun-26	1900045603	Salaries June 2026 - Payroll journal	1,552.26	OK	2026-06		OK	ok
4210	550210	Professional fees	03-Jun-26	1900045636	Transfer pricing documentation 2025 - Deloitte Hungary	1,756.80	OK	2026-06		OK	ok
4210	530110	Repairs & maintenance	04-Jun-26	1900045627	Emergency callout - DMG Mori Service	1,313.62	OK	2026-06		OK	ok
4210	520130	Wages & salaries	04-Jun-26	1900045599	Overtime June - Payroll journal - correction	841.48	OK	2026-06		OK	ok
4210	520120	Wages & salaries	06-Jun-26	1900045595	Wages June 2026 - Payroll journal - correction	1,560.81	OK	2026-06		OK	ok
4210	520400	Training & recruitment	08-Jun-26	1900045622	Forklift licence renewal - Lean Institute HU	1,390.30	OK	2026-06		OK	ok
4210	520120	Wages & salaries	08-Jun-26	1900045606	Overtime June - Payroll journal	969.41	OK	2026-06		OK	ok
4210	520110	Wages & salaries	09-Jun-26	1900045615	Wages June 2026 - Payroll journal - correction	1,711.50	OK	2026-06		OK	ok
4210	520200	Social contributions	11-Jun-26	1900045617	Vocational levy June - Payroll journal	3,843.71	OK	2026-06		OK	ok
4210	520110	Wages & salaries	12-Jun-26	1900045587	Overtime June - Payroll journal	1,249.89	OK	2026-06		OK	ok
4210	550300	Travel & entertainment	12-Jun-26	1900045640	Hotel - audit team - Wizz Air	892.01	OK	2026-06		OK	ok
4210	510100	Energy	13-Jun-26	1900045584	Electricity June 2026 - E.ON Hungaria	1,816.61	OK	2026-06		OK	ok
4210	520110	Wages & salaries	14-Jun-26	1900045598	Salaries June 2026 - Payroll journal	1,656.79	OK	2026-06		OK	ok
4210	520120	Wages & salaries	16-Jun-26	1900045594	Overtime June - Payroll journal - correction	1,905.90	OK	2026-06		OK	ok
4210	520130	Wages & salaries	17-Jun-26	1900045591	Shift premium June - Payroll journal	1,993.13	OK	2026-06		OK	ok
4210	560100	Depreciation	19-Jun-26	1900045643	Depreciation June 2026 - Depreciation run AFA-06/2026	2,057.81	OK	2026-06		OK	ok
4210	530100	Repairs & maintenance	22-Jun-26	1900045629	Hydraulic hose set - DMG Mori Service	1,289.75	OK	2026-06		OK	ok
4210	520400	Training & recruitment	23-Jun-26	1900045624	Job advert - CNC setter - TUV Rheinland	762.57	OK	2026-06		OK	ok
4210	520120	Wages & salaries	26-Jun-26	1900045613	Overtime June - Payroll journal - correction	883.41	OK	2026-06		OK	ok
4210	500210	Consumables & tooling	26-Jun-26	1900045583	Carbide inserts CNMG - Precision Tooling Partners	1,934.91	OK	2026-06		OK	ok
4210	560110	Depreciation	27-Jun-26	1900045644	Depreciation June 2026 - Depreciation run AFA-06/2026	2,593.17	OK	2026-06		OK	ok
4210	520110	Wages & salaries	27-Jun-26	1900045610	Shift premium June - Payroll journal - correction	1,627.13	OK	2026-06		OK	ok
4210	520130	Wages & salaries	27-Jun-26	1900045585	Wages June 2026 - Payroll journal - correction	1,525.27	OK	2026-06		OK	ok
4210	520200	Social contributions	29-Jun-26	1900045619	Vocational levy June - NAV contribution accrual	3,402.31	OK	2026-06		OK	ok
4210	520110	Wages & salaries	29-Jun-26	1900045608	Salaries June 2026 - Payroll journal	1,038.86	OK	2026-06		OK	ok
4210	550120	IT & communication	30-Jun-26	1900045632	Mobile fleet June - Microsoft Ireland	1,427.40	OK	2026-06		OK	ok
4220	530100	Repairs & maintenance	01-Jun-26	1900045713	Hydraulic hose set - Hidro-Tech Kft.	3,446.40	OK	2026-06		OK	ok
4220	520300	Agency & temporary labour	01-Jun-26	1900045698	Agency operators wk 26 - Prohuman 2004 Kft.	919.65	OK	2026-06		OK	ok
4220	530100	Repairs & maintenance	02-Jun-26	1900045724	Emergency callout - Hidro-Tech Kft.	3,885.29	OK	2026-06		OK	ok
4220	530110	Repairs & maintenance	03-Jun-26	1900045709	Hydraulic hose set - Hidro-Tech Kft.	3,796.27	OK	2026-06		OK	ok
4220	520300	Agency & temporary labour	05-Jun-26	1900045699	Agency operators wk 24 - Randstad Hungary	1,606.18	OK	2026-06		OK	ok
4220	530110	Repairs & maintenance	05-Jun-26	1900045726	Preventive maintenance visit - Hidro-Tech Kft.	3,930.34	OK	2026-06		OK	ok

STAGING TABLE - WRITTEN BY THE MACRO

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Cost centre	Account	Reporting line	Doc date	Doc no.	Text	Amount EUR	Flag (written by the macro)	Period	Rule string (re-derived on the sheet)	Flag re-derived	Agrees?
4220	520200	Social contributions	05-Jun-26	1900045697	Vocational levy June - NAV contribution accrual	3,223.57	OK	2026-06		OK	ok
4220	560110	Depreciation	06-Jun-26	1900045758	Depreciation June 2026 - Depreciation run AFA-06/2026	1,793.26	OK	2026-06		OK	ok
4220	520120	Wages & salaries	07-Jun-26	1900045673	Wages June 2026 - Payroll journal	1,269.37	OK	2026-06		OK	ok
4220	530110	Repairs & maintenance	07-Jun-26	1900045733	Emergency callout - DMG Mori Service	3,304.32	OK	2026-06		OK	ok
4220	530100	Repairs & maintenance	08-Jun-26	1900045731	Emergency callout - MRO Industrieservice	1,665.85	OK	2026-06		OK	ok
4220	520410	Training & recruitment	08-Jun-26	1900045703	Job advert - CNC setter - Profession.hu	873.78	OK	2026-06		OK	ok
4220	520120	Wages & salaries	08-Jun-26	1900045668	Wages June 2026 - Payroll journal	727.07	OK	2026-06		OK	ok
4220	520200	Social contributions	09-Jun-26	1900045693	Social contribution June - NAV contribution accrual	3,471.37	OK	2026-06		OK	ok
4220	520100	Wages & salaries	10-Jun-26	1900045678	Shift premium June - Payroll journal	954.14	OK	2026-06		OK	ok
4220	530120	Repairs & maintenance	10-Jun-26	1900045718	Emergency callout - Hidro-Tech Kft.	1,677.62	OK	2026-06		OK	ok
4220	530120	Repairs & maintenance	11-Jun-26	1900045741	Spindle bearing replacement M7 - MRO Industrieservice	2,014.11	OK	2026-06		OK	ok
4220	530120	Repairs & maintenance	11-Jun-26	1900045745	Preventive maintenance visit - MRO Industrieservice	3,354.60	OK	2026-06		OK	ok
4220	560100	Depreciation	11-Jun-26	1900045754	Depreciation June 2026 - Depreciation run AFA-06/2026	1,434.94	OK	2026-06		OK	ok
4220	530110	Repairs & maintenance	12-Jun-26	1900045707	Emergency callout - Hidro-Tech Kft.	2,235.14	OK	2026-06		OK	ok
4220	530100	Repairs & maintenance	12-Jun-26	1900045736	Preventive maintenance visit - Hidro-Tech Kft.	3,658.19	OK	2026-06		OK	ok
4220	520110	Wages & salaries	14-Jun-26	1900045671	Wages June 2026 - Payroll journal - correction	1,598.13	OK	2026-06		OK	ok
4220	520100	Wages & salaries	14-Jun-26	1900045677	Wages June 2026 - Payroll journal - correction	1,788.35	OK	2026-06		OK	ok
4220	520110	Wages & salaries	15-Jun-26	1900045665	Overtime June - Payroll journal - correction	1,586.94	OK	2026-06		OK	ok
4220	530110	Repairs & maintenance	16-Jun-26	1900045743	Emergency callout - Hidro-Tech Kft.	3,611.56	OK	2026-06		OK	ok
4220	520110	Wages & salaries	16-Jun-26	1900045687	Overtime June - Payroll journal - correction	1,132.42	OK	2026-06		OK	ok
4220	520120	Wages & salaries	16-Jun-26	1900045691	Salaries June 2026 - Payroll journal	1,768.83	OK	2026-06		OK	ok
4220	500210	Consumables & tooling	17-Jun-26	1900045651	Deburring media - Hoffmann Group	1,879.02	OK	2026-06		OK	ok
4220	520130	Wages & salaries	17-Jun-26	1900045661	Wages June 2026 - Payroll journal	1,694.91	OK	2026-06		OK	ok
4220	530110	Repairs & maintenance	17-Jun-26	1900045721	Spindle bearing replacement M7 - DMG Mori Service	1,869.71	OK	2026-06		OK	ok
4220	520100	Wages & salaries	19-Jun-26	1900045682	Salaries June 2026 - Payroll journal	1,799.83	OK	2026-06		OK	ok
4220	520120	Wages & salaries	19-Jun-26	1900045685	Wages June 2026 - Payroll journal - correction	1,210.81	OK	2026-06		OK	ok
4220	530110	Repairs & maintenance	20-Jun-26	1900045729	Hydraulic hose set - MRO Industrieservice	2,850.57	OK	2026-06		OK	ok
4220	500210	Consumables & tooling	22-Jun-26	1900045649	Deburring media - Wurth Szerelvény Kft.	1,580.95	OK	2026-06		OK	ok
4220	550310	Travel & entertainment	22-Jun-26	1900045750	Customer visit Wolfsburg - Danubius Hotels	389.64	OK	2026-06		OK	ok
4220	510110	Energy	22-Jun-26	1900045657	Electricity June 2026 - E.ON Hungary	1,185.53	OK	2026-06		OK	ok
4220	500200	Consumables & tooling	23-Jun-26	1900045646	End mills 12mm - Precision Tooling Partners	1,264.71	OK	2026-06		OK	ok
4220	520120	Wages & salaries	23-Jun-26	1900045680	Wages June 2026 - Payroll journal	1,600.17	OK	2026-06		OK	ok
4220	530110	Repairs & maintenance	23-Jun-26	1900045744	Preventive maintenance visit - Hidro-Tech Kft.	3,288.95	OK	2026-06		OK	ok
4220	530120	Repairs & maintenance	25-Jun-26	1900045720	Hydraulic hose set - DMG Mori Service	2,463.65	OK	2026-06		OK	ok
4220	530100	Repairs & maintenance	28-Jun-26	1900045714	Emergency callout - MRO Industrieservice	2,312.71	OK	2026-06		OK	ok
4220	550110	IT & communication	30-Jun-26	1900045747	Mobile fleet June - Microsoft Ireland	616.86	OK	2026-06		OK	ok
4220	500210	Consumables & tooling	30-Jun-26	1900045653	Coolant concentrate 200L - Hoffmann Group	1,005.42	OK	2026-06		OK	ok
4220	530100	Repairs & maintenance	30-Jun-26	1900045740	Emergency callout - Hidro-Tech Kft.	3,034.72	OK	2026-06		OK	ok
4310	540110	Freight & logistics	01-Jun-26	1900045879	Groupage AT wk 25 - Waberer's	1,225.78	OK	2026-06		OK	ok
4310	520120	Wages & salaries	01-Jun-26	1900045777	Salaries June 2026 - Payroll journal - correction	1,597.51	OK	2026-06		OK	ok
4310	560110	Depreciation	01-Jun-26	1900045908	Depreciation June 2026 - Depreciation run AFA-06/2026	3,403.62	OK	2026-06		OK	ok
4310	540100	Freight & logistics	02-Jun-26	1900045852	Groupage DE wk 24 - Raben Trans European	2,154.86	OK	2026-06		OK	ok
4310	550300	Travel & entertainment	02-Jun-26	1900045902	Hotel - audit team - Danubius Hotels	292.60	OK	2026-06		OK	ok
4310	540100	Freight & logistics	02-Jun-26	1900045875	Express shipment - line stop risk - Waberer's	1,627.38	OK	2026-06		OK	ok
4310	540110	Freight & logistics	02-Jun-26	1900045888	Express shipment - line stop risk - Waberer's	1,528.42	OK	2026-06		OK	ok
4310	520120	Wages & salaries	03-Jun-26	1900045809	Salaries June 2026 - Payroll journal	1,604.47	OK	2026-06		OK	ok
4310	540100	Freight & logistics	05-Jun-26	1900045867	Groupage DE wk 24 - Waberer's	1,772.90	OK	2026-06		OK	ok
4310	540100	Freight & logistics	05-Jun-26	1900045863	Groupage AT wk 25 - TransCarpat Logistics	1,937.00	OK	2026-06		OK	ok
4310	540100	Freight & logistics	05-Jun-26	1900045856	Groupage DE wk 24 - TransCarpat Logistics	1,915.96	OK	2026-06		OK	ok
4310	530200	Rent & facilities	06-Jun-26	1900045849	Cleaning contract June - Gyor Ipari Park Kft.	2,738.48	OK	2026-06		OK	ok
4310	520120	Wages & salaries	07-Jun-26	1900045796	Overtime June - Payroll journal	1,283.01	OK	2026-06		OK	ok
4310	560100	Depreciation	07-Jun-26	1900045905	Depreciation June 2026 - Depreciation run AFA-06/2026	2,043.21	OK	2026-06		OK	ok
4310	540110	Freight & logistics	07-Jun-26	1900045874	Export packaging - Waberer's	1,237.73	OK	2026-06		OK	ok
4310	550100	IT & communication	08-Jun-26	1900045898	Helpdesk retainer - 4iG Nyrt.	894.97	OK	2026-06		OK	ok
4310	530200	Rent & facilities	09-Jun-26	1900045845	Cleaning contract June - Gyor Ipari Park Kft.	2,180.32	OK	2026-06		OK	ok
4310	520130	Wages & salaries	09-Jun-26	1900045784	Shift premium June - Payroll journal	1,012.59	OK	2026-06		OK	ok
4310	500200	Consumables & tooling	09-Jun-26	1900045761	Deburring media - Wurth Szerelvény Kft.	1,695.51	OK	2026-06		OK	ok
4310	520120	Wages & salaries	10-Jun-26	1900045811	Shift premium June - Payroll journal	2,127.43	OK	2026-06		OK	ok
4310	520120	Wages & salaries	10-Jun-26	1900045788	Overtime June - Payroll journal	1,585.13	OK	2026-06		OK	ok

STAGING TABLE - WRITTEN BY THE MACRO

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Cost centre	Account	Reporting line	Doc date	Doc no.	Text	Amount EUR	Flag (written by the macro)	Period	Rule string (re-derived on the sheet)	Flag re-derived	Agrees?
4310	520200	Social contributions	10-Jun-26	1900045822	Social contribution June - Payroll journal	2,692.08	OK	2026-06		OK	ok
4310	520100	Wages & salaries	10-Jun-26	1900045774	Salaries June 2026 - Payroll journal	1,832.72	OK	2026-06		OK	ok
4310	510100	Energy	11-Jun-26	1900045765	Gas June 2026 - MVM Next Energiakereskedo	1,207.24	OK	2026-06		OK	ok
4310	520300	Agency & temporary labour	12-Jun-26	1900045831	Agency operators wk 24 - Trenkwalder Kft.	1,919.18	OK	2026-06		OK	ok
4310	540100	Freight & logistics	12-Jun-26	1900045872	Groupage DE wk 24 - TransCarpat Logistics	2,737.66	OK	2026-06		OK	ok
4310	639500	UNMAPPED	12-Jun-26	1900046254	Reclass pending - customs duty	2,180.00	UNMAPPED	2026-06	UNMAPPED	UNMAPPED	ok
4310	540100	Freight & logistics	12-Jun-26	1900045886	Groupage AT wk 25 - Raben Trans European	2,583.57	OK	2026-06		OK	ok
4310	639500	UNMAPPED	12-Jun-26	1900046257	Reclass pending - scrap proceeds offset	1,640.50	UNMAPPED	2026-06	UNMAPPED	UNMAPPED	ok
4310	520300	Agency & temporary labour	13-Jun-26	1900045837	Agency operators wk 24 - Trenkwalder Kft.	1,182.61	OK	2026-06		OK	ok
4310	540100	Freight & logistics	13-Jun-26	1900045862	Export packaging - Waberer's	2,942.84	OK	2026-06		OK	ok
4310	510110	Energy	16-Jun-26	1900045772	Peak demand charge - E.ON Hungary	1,319.69	OK	2026-06		OK	ok
4310	520410	Training & recruitment	16-Jun-26	1900045839	ISO 9001 internal auditor course - Lean Institute HU	586.57	OK	2026-06		OK	ok
4310	520110	Wages & salaries	17-Jun-26	1900045798	Shift premium June - Payroll journal	1,396.99	OK	2026-06		OK	ok
4310	520110	Wages & salaries	17-Jun-26	1900045806	Wages June 2026 - Payroll journal - correction	1,114.12	OK	2026-06		OK	ok
4310	520120	Wages & salaries	18-Jun-26	1900045815	Wages June 2026 - Payroll journal	1,417.44	OK	2026-06		OK	ok
4310	540100	Freight & logistics	18-Jun-26	1900045869	Groupage AT wk 25 - Waberer's	1,842.66	OK	2026-06		OK	ok
4310	520100	Wages & salaries	18-Jun-26	1900045800	Salaries June 2026 - Payroll journal - correction	1,286.77	OK	2026-06		OK	ok
4310	520300	Agency & temporary labour	19-Jun-26	1900045834	Agency operators wk 23 - Trenkwalder Kft.	1,602.49	OK	2026-06		OK	ok
4310	530100	Repairs & maintenance	21-Jun-26	1900045843	Spindle bearing replacement M7 - Hidro-Tech Kft.	961.08	OK	2026-06		OK	ok
4310	540100	Freight & logistics	21-Jun-26	1900045891	Groupage AT wk 25 - TransCarpat Logistics	2,703.77	OK	2026-06		OK	ok
4310	500210	Consumables & tooling	22-Jun-26	1900045763	Coolant concentrate 200L - Hoffmann Group	1,073.81	OK	2026-06		OK	ok
4310	639500	UNMAPPED	23-Jun-26	1900046260	Reclass pending - insurance recovery	1,035.00	UNMAPPED	2026-06	UNMAPPED	UNMAPPED	ok
4310	510110	Energy	24-Jun-26	1900045768	Electricity June 2026 - MVM Next Energiakereskedo	1,109.63	OK	2026-06		OK	ok
4310	520130	Wages & salaries	24-Jun-26	1900045780	Wages June 2026 - Payroll journal - correction	884.68	OK	2026-06		OK	ok
4310	520100	Wages & salaries	25-Jun-26	1900045818	Shift premium June - Payroll journal	1,064.81	OK	2026-06		OK	ok
4310	540100	Freight & logistics	25-Jun-26	1900045882	Export packaging - Waberer's	1,615.68	OK	2026-06		OK	ok
4310	520120	Wages & salaries	26-Jun-26	1900045803	Overtime June - Payroll journal - correction	1,211.52	OK	2026-06		OK	ok
4310	520100	Wages & salaries	26-Jun-26	1900045792	Wages June 2026 - Payroll journal - correction	1,747.08	OK	2026-06		OK	ok
4310	540110	Freight & logistics	27-Jun-26	1900045897	Groupage AT wk 25 - Waberer's	2,917.76	OK	2026-06		OK	ok
4310	530120	Repairs & maintenance	28-Jun-26	1900045844	Emergency callout - MRO Industrieservice	1,417.63	OK	2026-06		OK	ok
4310	540100	Freight & logistics	28-Jun-26	1900045894	Groupage AT wk 25 - Raben Trans European	2,350.38	OK	2026-06		OK	ok
4310	540110	Freight & logistics	28-Jun-26	1900045858	Groupage DE wk 24 - TransCarpat Logistics	1,367.22	OK	2026-06		OK	ok
4310	520210	Social contributions	29-Jun-26	1900045823	Social contribution June - NAV contribution accrual	6,057.81	OK	2026-06		OK	ok
4310	520300	Agency & temporary labour	30-Jun-26	1900045827	Agency operators wk 24 - Randstad Hungary	1,195.96	OK	2026-06		OK	ok
4310	540100	Freight & logistics	30-Jun-26	1900045853	Export packaging - Raben Trans European	2,738.43	OK	2026-06		OK	ok
4310	520130	Wages & salaries	30-Jun-26	1900045786	Shift premium June - Payroll journal	1,883.71	OK	2026-06		OK	ok
4320	520110	Wages & salaries	01-Jun-26	1900045913	Wages June 2026 - Payroll journal - correction	1,103.36	OK	2026-06		OK	ok
4320	550110	IT & communication	02-Jun-26	1900045936	Helpdesk retainer - 4iG Nyrt.	1,158.21	OK	2026-06		OK	ok
4320	520100	Wages & salaries	06-Jun-26	1900045923	Overtime June - Payroll journal - correction	1,286.72	OK	2026-06		OK	ok
4320	520410	Training & recruitment	06-Jun-26	1900045932	ISO 9001 internal auditor course - TUV Rheinland	699.11	OK	2026-06		OK	ok
4320	520100	Wages & salaries	08-Jun-26	1900045916	Wages June 2026 - Payroll journal	1,837.77	OK	2026-06		OK	ok
4320	520110	Wages & salaries	09-Jun-26	1900045911	Overtime June - Payroll journal - correction	1,498.69	OK	2026-06		OK	ok
4320	560110	Depreciation	09-Jun-26	1900045942	Depreciation June 2026 - Depreciation run AFA-06/2026	813.09	OK	2026-06		OK	ok
4320	520130	Wages & salaries	12-Jun-26	1900045909	Shift premium June - Payroll journal - correction	1,079.65	OK	2026-06		OK	ok
4320	520130	Wages & salaries	15-Jun-26	1900045926	Overtime June - Payroll journal - correction	1,279.36	OK	2026-06		OK	ok
4320	520210	Social contributions	18-Jun-26	1900045930	Vocational levy June - NAV contribution accrual	1,616.42	OK	2026-06		OK	ok
4320	550120	IT & communication	18-Jun-26	1900045938	Helpdesk retainer - 4iG Nyrt.	1,294.64	OK	2026-06		OK	ok
4320	550310	Travel & entertainment	21-Jun-26	1900045941	Customer visit Stuttgart - Travel expense claim	500.55	OK	2026-06		OK	ok
4320	520120	Wages & salaries	24-Jun-26	1900045925	Wages June 2026 - Payroll journal - correction	1,809.44	OK	2026-06		OK	ok
4320	520110	Wages & salaries	25-Jun-26	1900045920	Overtime June - Payroll journal - correction	1,670.85	OK	2026-06		OK	ok
4320	520120	Wages & salaries	27-Jun-26	1900045910	Wages June 2026 - Payroll journal	1,414.96	OK	2026-06		OK	ok
4320	520210	Social contributions	27-Jun-26	1900045929	Social contribution June - NAV contribution accrual	3,445.02	OK	2026-06		OK	ok
5110	530110	Repairs & maintenance	01-Jun-26	1900046006	Spindle bearing replacement M7 - MRO Industrieservice	1,222.85	OK	2026-06		OK	ok
5110	520100	Wages & salaries	01-Jun-26	1900045976	Salaries June 2026 - Payroll journal	1,821.82	OK	2026-06		OK	ok
5110	520120	Wages & salaries	01-Jun-26	1900045958	Wages June 2026 - Payroll journal	1,048.61	OK	2026-06		OK	ok
5110	550300	Travel & entertainment	02-Jun-26	1900046019	Customer visit Stuttgart - Travel expense claim	1,889.00	OK	2026-06		OK	ok
5110	520110	Wages & salaries	02-Jun-26	1900045969	Shift premium June - Payroll journal	1,743.49	OK	2026-06		OK	ok
5110	520200	Social contributions	02-Jun-26	1900045991	Social contribution June - NAV contribution accrual	4,135.62	OK	2026-06		OK	ok
5110	520130	Wages & salaries	04-Jun-26	1900045961	Salaries June 2026 - Payroll journal	2,094.03	OK	2026-06		OK	ok

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Cost centre	Account	Reporting line	Doc date	Doc no.	Text	Amount EUR	Flag (written by the macro)	Period	Rule string (re-derived on the sheet)	Flag re-derived	Agrees?
5110	500210	Consumables & tooling	04-Jun-26	1900045946	Deburring media - Hoffmann Group	1,110.84	OK	2026-06		OK	ok
5110	520110	Wages & salaries	05-Jun-26	1900045953	Shift premium June - Payroll journal - correction	1,043.24	OK	2026-06		OK	ok
5110	520130	Wages & salaries	06-Jun-26	1900045949	Shift premium June - Payroll journal - correction	1,076.84	OK	2026-06		OK	ok
5110	520210	Social contributions	06-Jun-26	1900045992	Social contribution June - NAV contribution accrual	5,977.46	OK	2026-06		OK	ok
5110	520110	Wages & salaries	07-Jun-26	1900045984	Overtime June - Payroll journal - correction	999.09	OK	2026-06		OK	ok
5110	560100	Depreciation	07-Jun-26	1900046025	Depreciation June 2026 - Depreciation run AFA-06/2026	1,776.98	OK	2026-06		OK	ok
5110	520130	Wages & salaries	07-Jun-26	1900045962	Overtime June - Payroll journal	2,398.91	OK	2026-06		OK	ok
5110	550200	Professional fees	08-Jun-26	1900046012	Transfer pricing documentation 2025 - Oppenheim Ugyvedi Iroda	1,165.04	OK	2026-06		OK	ok
5110	520300	Agency & temporary labour	10-Jun-26	1900045998	Agency operators wk 24 - Randstad Hungary	1,332.56	OK	2026-06		OK	ok
5110	550200	Professional fees	11-Jun-26	1900046016	Statutory audit interim fee - Deloitte Hungary	1,258.01	OK	2026-06		OK	ok
5110	520100	Wages & salaries	11-Jun-26	1900045980	Overtime June - Payroll journal	1,512.58	OK	2026-06		OK	ok
5110	520300	Agency & temporary labour	11-Jun-26	1900045994	Agency operators wk 23 - Randstad Hungary	1,736.80	OK	2026-06		OK	ok
5110	520120	Wages & salaries	13-Jun-26	1900045978	Shift premium June - Payroll journal	2,220.62	OK	2026-06		OK	ok
5110	520110	Wages & salaries	14-Jun-26	1900045975	Overtime June - Payroll journal - correction	1,367.14	OK	2026-06		OK	ok
5110	520100	Wages & salaries	14-Jun-26	1900045965	Shift premium June - Payroll journal - correction	1,603.11	OK	2026-06		OK	ok
5110	520130	Wages & salaries	16-Jun-26	1900045973	Shift premium June - Payroll journal	1,110.93	OK	2026-06		OK	ok
5110	520400	Training & recruitment	17-Jun-26	1900046002	Forklift licence renewal - TUV Rheinland	1,741.94	OK	2026-06		OK	ok
5110	520100	Wages & salaries	18-Jun-26	1900045970	Overtime June - Payroll journal - correction	1,016.87	OK	2026-06		OK	ok
5110	520120	Wages & salaries	18-Jun-26	1900045972	Shift premium June - Payroll journal	1,003.40	OK	2026-06		OK	ok
5110	520130	Wages & salaries	19-Jun-26	1900045957	Salaries June 2026 - Payroll journal - correction	2,029.84	OK	2026-06		OK	ok
5110	550120	IT & communication	21-Jun-26	1900046011	MES licence June - Magyar Telekom	1,080.05	OK	2026-06		OK	ok
5110	550120	IT & communication	23-Jun-26	1900046010	MES licence June - 4iG Nyrt.	1,540.00	OK	2026-06		OK	ok
5110	550100	IT & communication	24-Jun-26	1900046008	Helpdesk retainer - 4iG Nyrt.	1,621.01	OK	2026-06		OK	ok
5110	520100	Wages & salaries	24-Jun-26	1900045987	Overtime June - Payroll journal	1,525.51	OK	2026-06		OK	ok
5110	500200	Consumables & tooling	26-Jun-26	1900045948	Gauge blocks recalibration - Hoffmann Group	1,996.08	OK	2026-06		OK	ok
5110	520100	Wages & salaries	26-Jun-26	1900045956	Overtime June - Payroll journal	1,208.70	OK	2026-06		OK	ok
5110	560110	Depreciation	27-Jun-26	1900046022	Depreciation June 2026 - Depreciation run AFA-06/2026	1,748.95	OK	2026-06		OK	ok
5210	550300	Travel & entertainment	02-Jun-26	1900046086	Mileage claim - Wizz Air	1,283.20	OK	2026-06		OK	ok
5210	520200	Social contributions	03-Jun-26	1900046074	Vocational levy June - Payroll journal	4,801.55	OK	2026-06		OK	ok
5210	520120	Wages & salaries	04-Jun-26	1900046051	Shift premium June - Payroll journal - correction	939.56	OK	2026-06		OK	ok
5210	520100	Wages & salaries	05-Jun-26	1900046030	Overtime June - Payroll journal - correction	1,115.27	OK	2026-06		OK	ok
5210	520130	Wages & salaries	06-Jun-26	1900046053	Overtime June - Payroll journal	1,419.27	OK	2026-06		OK	ok
5210	520110	Wages & salaries	07-Jun-26	1900046034	Overtime June - Payroll journal - correction	1,646.59	OK	2026-06		OK	ok
5210	520110	Wages & salaries	07-Jun-26	1900046057	Shift premium June - Payroll journal - correction	936.77	OK	2026-06		OK	ok
5210	560100	Depreciation	08-Jun-26	1900046094	Depreciation June 2026 - Depreciation run AFA-06/2026	1,372.79	OK	2026-06		OK	ok
5210	520130	Wages & salaries	08-Jun-26	1900046037	Wages June 2026 - Payroll journal - correction	1,483.89	OK	2026-06		OK	ok
5210	520100	Wages & salaries	10-Jun-26	1900046067	Salaries June 2026 - Payroll journal - correction	1,782.67	OK	2026-06		OK	ok
5210	520110	Wages & salaries	10-Jun-26	1900046069	Salaries June 2026 - Payroll journal - correction	1,992.42	OK	2026-06		OK	ok
5210	520410	Training & recruitment	13-Jun-26	1900046075	Job advert - CNC setter - TUV Rheinland	905.13	OK	2026-06		OK	ok
5210	550300	Travel & entertainment	14-Jun-26	1900046089	Mileage claim - Wizz Air	979.85	OK	2026-06		OK	ok
5210	520120	Wages & salaries	15-Jun-26	1900046063	Overtime June - Payroll journal	1,262.31	OK	2026-06		OK	ok
5210	520100	Wages & salaries	15-Jun-26	1900046038	Shift premium June - Payroll journal	1,625.61	OK	2026-06		OK	ok
5210	520110	Wages & salaries	17-Jun-26	1900046060	Wages June 2026 - Payroll journal	807.47	OK	2026-06		OK	ok
5210	520110	Wages & salaries	18-Jun-26	1900046050	Overtime June - Payroll journal - correction	1,898.93	OK	2026-06		OK	ok
5210	520120	Wages & salaries	19-Jun-26	1900046028	Shift premium June - Payroll journal - correction	1,414.52	OK	2026-06		OK	ok
5210	520120	Wages & salaries	20-Jun-26	1900046040	Wages June 2026 - Payroll journal - correction	1,235.83	OK	2026-06		OK	ok
5210	550100	IT & communication	20-Jun-26	1900046080	Mobile fleet June - Magyar Telekom	1,252.66	OK	2026-06		OK	ok
5210	550210	Professional fees	22-Jun-26	1900046084	Statutory audit interim fee - KPMG Hungary	1,213.43	OK	2026-06		OK	ok
5210	520100	Wages & salaries	22-Jun-26	1900046046	Overtime June - Payroll journal	1,404.27	OK	2026-06		OK	ok
5210	550100	IT & communication	24-Jun-26	1900046078	Helpdesk retainer - Microsoft Ireland	1,617.08	OK	2026-06		OK	ok
5210	520100	Wages & salaries	25-Jun-26	1900046064	Salaries June 2026 - Payroll journal - correction	1,080.26	OK	2026-06		OK	ok
5210	550310	Travel & entertainment	26-Jun-26	1900046087	Customer visit Stuttgart - Wizz Air	1,308.96	OK	2026-06		OK	ok
5210	520120	Wages & salaries	28-Jun-26	1900046042	Shift premium June - Payroll journal	784.25	OK	2026-06		OK	ok
5210	520130	Wages & salaries	29-Jun-26	1900046045	Shift premium June - Payroll journal - correction	1,945.73	OK	2026-06		OK	ok
5210	520200	Social contributions	29-Jun-26	1900046071	Vocational levy June - NAV contribution accrual	4,555.79	OK	2026-06		OK	ok
5210	550310	Travel & entertainment	30-Jun-26	1900046091	Customer visit Wolfsburg - Travel expense claim	1,327.99	OK	2026-06		OK	ok
6110	520120	Wages & salaries	01-Jun-26	1900046113	Shift premium June - Payroll journal	1,748.06	OK	2026-06		OK	ok
6110	520130	Wages & salaries	01-Jun-26	1900046118	Wages June 2026 - Payroll journal - correction	1,401.89	OK	2026-06		OK	ok
6110	520210	Social contributions	04-Jun-26	1900046142	Social contribution June - NAV contribution accrual	5,033.57	OK	2026-06		OK	ok

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6110	550210	Professional fees	04-Jun-26	1900046193	Transfer pricing documentation 2025 - Oppenheim Ugyvedi Iroda	1,534.65	OK	2026-06		OK	ok
6110	550300	Travel & entertainment	05-Jun-26	1900046198	Customer visit Wolfsburg - Wizz Air	895.58	OK	2026-06		OK	ok
6110	550110	IT & communication	05-Jun-26	1900046162	Mobile fleet June - Magyar Telekom	1,491.91	OK	2026-06		OK	ok
6110	550120	IT & communication	06-Jun-26	1900046164	Mobile fleet June - Magyar Telekom	990.68	OK	2026-06		OK	ok
6110	520410	Training & recruitment	07-Jun-26	1900046145	ISO 9001 internal auditor course - Lean Institute HU	1,131.99	OK	2026-06		OK	ok
6110	520130	Wages & salaries	08-Jun-26	1900046130	Overtime June - Payroll journal - correction	915.23	OK	2026-06		OK	ok
6110	550210	Professional fees	08-Jun-26	1900046181	Transfer pricing documentation 2025 - Deloitte Hungary	893.45	OK	2026-06		OK	ok
6110	560100	Depreciation	08-Jun-26	1900046209	Depreciation June 2026 - Depreciation run AFA-06/2026	1,331.73	OK	2026-06		OK	ok
6110	550210	Professional fees	09-Jun-26	1900046195	Legal advice - supply agreement - Oppenheim Ugyvedi Iroda	1,889.59	OK	2026-06		OK	ok
6110	520120	Wages & salaries	09-Jun-26	1900046101	Overtime June - Payroll journal - correction	1,108.44	OK	2026-06		OK	ok
6110	520120	Wages & salaries	09-Jun-26	1900046124	Salaries June 2026 - Payroll journal - correction	1,452.59	OK	2026-06		OK	ok
6110	560100	Depreciation	09-Jun-26	1900046207	Depreciation June 2026 - Depreciation run AFA-06/2026	872.73	OK	2026-06		OK	ok
6110	550400	Insurance	10-Jun-26	1900046205	Property & liability premium instalment - Generali Biztosito	5,707.11	OK	2026-06		OK	ok
6110	550200	Professional fees	11-Jun-26	1900046192	Legal advice - supply agreement - KPMG Hungary	1,178.03	OK	2026-06		OK	ok
6110	550100	IT & communication	12-Jun-26	1900046158	Helpdesk retainer - Microsoft Ireland	1,459.15	OK	2026-06		OK	ok
6110	520120	Wages & salaries	13-Jun-26	1900046136	Salaries June 2026 - Payroll journal	1,187.25	OK	2026-06		OK	ok
6110	520120	Wages & salaries	14-Jun-26	1900046120	Wages June 2026 - Payroll journal - correction	1,607.40	OK	2026-06		OK	ok
6110	520120	Wages & salaries	14-Jun-26	1900046105	Salaries June 2026 - Payroll journal - correction	1,721.94	OK	2026-06		OK	ok
6110	530200	Rent & facilities	17-Jun-26	1900046147	Rent June 2026 - ISS Facility Services	10,331.43	OK	2026-06		OK	ok
6110	520120	Wages & salaries	17-Jun-26	1900046114	Shift premium June - Payroll journal	898.40	OK	2026-06		OK	ok
6110	530210	Rent & facilities	18-Jun-26	1900046150	Rent June 2026 - ISS Facility Services	12,222.23	OK	2026-06		OK	ok
6110	550200	Professional fees	18-Jun-26	1900046176	Legal advice - supply agreement - Oppenheim Ugyvedi Iroda	1,745.88	OK	2026-06		OK	ok
6110	520200	Social contributions	18-Jun-26	1900046138	Social contribution June - Payroll journal	3,408.53	OK	2026-06		OK	ok
6110	520110	Wages & salaries	18-Jun-26	1900046128	Overtime June - Payroll journal - correction	1,347.75	OK	2026-06		OK	ok
6110	550200	Professional fees	19-Jun-26	1900046183	Transfer pricing documentation 2025 - Oppenheim Ugyvedi Iroda	1,243.09	OK	2026-06		OK	ok
6110	550200	Professional fees	20-Jun-26	1900046179	Transfer pricing documentation 2025 - KPMG Hungary	1,187.89	OK	2026-06		OK	ok
6110	520120	Wages & salaries	20-Jun-26	1900046115	Wages June 2026 - Payroll journal	952.89	OK	2026-06		OK	ok
6110	550210	Professional fees	21-Jun-26	1900046172	Statutory audit interim fee - KPMG Hungary	2,005.12	OK	2026-06		OK	ok
6110	550210	Professional fees	21-Jun-26	1900046173	Statutory audit interim fee - KPMG Hungary	1,982.72	OK	2026-06		OK	ok
6110	520100	Wages & salaries	23-Jun-26	1900046107	Salaries June 2026 - Payroll journal	1,765.91	OK	2026-06		OK	ok
6110	550210	Professional fees	24-Jun-26	1900046194	Transfer pricing documentation 2025 - Deloitte Hungary	1,084.14	OK	2026-06		OK	ok
6110	550120	IT & communication	24-Jun-26	1900046154	MES licence June - Microsoft Ireland	1,355.41	OK	2026-06		OK	ok
6110	550110	IT & communication	24-Jun-26	1900046153	Mobile fleet June - 4iG Nyrt.	1,339.49	OK	2026-06		OK	ok
6110	550210	Professional fees	25-Jun-26	1900046191	Legal advice - supply agreement - Deloitte Hungary	1,665.25	OK	2026-06		OK	ok
6110	550200	Professional fees	25-Jun-26	1900046187	Legal advice - supply agreement - Deloitte Hungary	1,960.72	OK	2026-06		OK	ok
6110	550200	Professional fees	26-Jun-26	1900046170	Statutory audit interim fee - KPMG Hungary	1,009.54	OK	2026-06		OK	ok
6110	550200	Professional fees	26-Jun-26	1900046167	Statutory audit interim fee - Oppenheim Ugyvedi Iroda	1,212.50	OK	2026-06		OK	ok
6110	520110	Wages & salaries	26-Jun-26	1900046133	Wages June 2026 - Payroll journal - correction	1,905.63	OK	2026-06		OK	ok
6110	550210	Professional fees	29-Jun-26	1900046196	Transfer pricing documentation 2025 - KPMG Hungary	907.43	OK	2026-06		OK	ok
6110	550400	Insurance	30-Jun-26	1900046202	Property & liability premium instalment - Generali Biztosito	7,072.59	OK	2026-06		OK	ok
6110	520100	Wages & salaries	30-Jun-26	1900046097	Overtime June - Payroll journal - correction	997.40	OK	2026-06		OK	ok
6110	520110	Wages & salaries	30-Jun-26	1900046110	Salaries June 2026 - Payroll journal	1,333.12	OK	2026-06		OK	ok
6120	520100	Wages & salaries	01-Jun-26	1900046214	Overtime June - Payroll journal	1,910.00	NO BUDGET	2026-06	NO BUDGET	NO BUDGET	ok
6120	520130	Wages & salaries	04-Jun-26	1900046218	Wages June 2026 - Payroll journal	1,340.85	NO BUDGET	2026-06	NO BUDGET	NO BUDGET	ok
6120	520130	Wages & salaries	05-Jun-26	1900046225	Overtime June - Payroll journal	1,389.18	NO BUDGET	2026-06	NO BUDGET	NO BUDGET	ok
6120	520100	Wages & salaries	05-Jun-26	1900046210	Salaries June 2026 - Payroll journal - correction	875.54	NO BUDGET	2026-06	NO BUDGET	NO BUDGET	ok
6120	550310	Travel & entertainment	07-Jun-26	1900046250	Mileage claim - Danubius Hotels	590.68	NO BUDGET	2026-06	NO BUDGET	NO BUDGET	ok
6120	520130	Wages & salaries	07-Jun-26	1900046227	Overtime June - Payroll journal	1,659.99	NO BUDGET	2026-06	NO BUDGET	NO BUDGET	ok
6120	520200	Social contributions	08-Jun-26	1900046232	Vocational levy June - Payroll journal	1,209.43	NO BUDGET	2026-06	NO BUDGET	NO BUDGET	ok
6120	520210	Social contributions	08-Jun-26	1900046228	Social contribution June - Payroll journal	2,647.24	NO BUDGET	2026-06	NO BUDGET	NO BUDGET	ok
6120	550200	Professional fees	09-Jun-26	1900046248	Legal advice - supply agreement - Oppenheim Ugyvedi Iroda	825.44	NO BUDGET	2026-06	NO BUDGET	NO BUDGET	ok
6120	520410	Training & recruitment	09-Jun-26	1900046235	ISO 9001 internal auditor course - Profession.hu	979.19	NO BUDGET	2026-06	NO BUDGET	NO BUDGET	ok
6120	520410	Training & recruitment	11-Jun-26	1900046242	ISO 9001 internal auditor course - Lean Institute HU	1,688.55	NO BUDGET	2026-06	NO BUDGET	NO BUDGET	ok
6120	520100	Wages & salaries	13-Jun-26	1900046221	Wages June 2026 - Payroll journal	917.70	NO BUDGET	2026-06	NO BUDGET	NO BUDGET	ok
6120	550110	IT & communication	20-Jun-26	1900046245	Mobile fleet June - 4iG Nyrt.	907.44	NO BUDGET	2026-06	NO BUDGET	NO BUDGET	ok
6120	520410	Training & recruitment	22-Jun-26	1900046238	Job advert - CNC setter - Lean Institute HU	1,993.61	NO BUDGET	2026-06	NO BUDGET	NO BUDGET	ok
6120	520120	Wages & salaries	26-Jun-26	1900046212	Overtime June - Payroll journal - correction	1,926.46	NO BUDGET	2026-06	NO BUDGET	NO BUDGET	ok
6120	560100	Depreciation	27-Jun-26	1900046251	Depreciation June 2026 - Depreciation run AFA-06/2026	398.58	NO BUDGET	2026-06	NO BUDGET	NO BUDGET	ok
Total staged						1,086,005.18	506 clean, 24 flagged	all agree			

BUDGET, UNPIVOTED BY THE MACRO

The planning file arrives with cost centres across the columns. modImport.ImportBudget reads that block and returns it one row per cost centre and reporting line, which i

Cost centre	Reporting line	Budget EUR	Note
4110	Consumables & tooling	19,500.00	
4110	Energy	46,000.00	
4110	Wages & salaries	58,000.00	
4110	Social contributions	23,200.00	
4110	Agency & temporary labour	8,000.00	
4110	Training & recruitment	1,200.00	
4110	Repairs & maintenance	14,000.00	
4110	IT & communication	900.00	
4110	Travel & entertainment	400.00	
4110	Depreciation	33,000.00	
4120	Consumables & tooling	16,800.00	
4120	Energy	39,000.00	
4120	Wages & salaries	49,000.00	
4120	Social contributions	19,600.00	
4120	Agency & temporary labour	18,000.00	
4120	Training & recruitment	1,000.00	
4120	Repairs & maintenance	12,500.00	
4120	IT & communication	800.00	
4120	Travel & entertainment	350.00	
4120	Depreciation	28,500.00	
4130	Consumables & tooling	12,400.00	
4130	Energy	24,000.00	
4130	Wages & salaries	34,000.00	
4130	Social contributions	13,600.00	
4130	Agency & temporary labour	5,500.00	
4130	Training & recruitment	800.00	
4130	Repairs & maintenance	9,000.00	
4130	IT & communication	700.00	
4130	Travel & entertainment	300.00	
4130	Depreciation	19,000.00	
4140	Consumables & tooling	6,200.00	
4140	Energy	9,500.00	
4140	Wages & salaries	21,000.00	
4140	Social contributions	8,400.00	
4140	Agency & temporary labour	4,000.00	
4140	Training & recruitment	500.00	
4140	Repairs & maintenance	3,800.00	
4140	IT & communication	500.00	
4140	Travel & entertainment	200.00	
4140	Depreciation	6,500.00	
4210	Consumables & tooling	3,400.00	
4210	Energy	1,800.00	
4210	Wages & salaries	18,500.00	
4210	Social contributions	7,400.00	
4210	Training & recruitment	2,200.00	
4210	Repairs & maintenance	2,600.00	
4210	IT & communication	1,400.00	
4210	Professional fees	1,800.00	
4210	Travel & entertainment	900.00	
4210	Depreciation	4,800.00	
4220	Consumables & tooling	5,600.00	
4220	Energy	1,200.00	
4220	Wages & salaries	16,800.00	
4220	Social contributions	6,720.00	

4220	Agency & temporary labour	2,500.00
4220	Training & recruitment	900.00
4220	Repairs & maintenance	31,000.00
4220	IT & communication	600.00
4220	Travel & entertainment	400.00
4220	Depreciation	3,200.00
4310	Consumables & tooling	2,800.00
4310	Energy	3,600.00
4310	Wages & salaries	22,400.00
4310	Social contributions	8,960.00
4310	Agency & temporary labour	6,000.00
4310	Training & recruitment	600.00
4310	Repairs & maintenance	2,400.00
4310	Rent & facilities	4,800.00
4310	Freight & logistics	41,000.00
4310	IT & communication	900.00
4310	Travel & entertainment	300.00
4310	Depreciation	5,400.00
4320	Wages & salaries	12,600.00
4320	Social contributions	5,040.00
4320	Training & recruitment	700.00
4320	IT & communication	2,400.00
4320	Travel & entertainment	500.00
4320	Depreciation	800.00
5110	Consumables & tooling	3,200.00
5110	Wages & salaries	26,000.00
5110	Social contributions	10,400.00
5110	Agency & temporary labour	3,000.00
5110	Training & recruitment	1,800.00
5110	Repairs & maintenance	1,200.00
5110	IT & communication	4,200.00
5110	Professional fees	2,400.00
5110	Travel & entertainment	1,900.00
5110	Depreciation	3,600.00
5210	Wages & salaries	24,000.00
5210	Social contributions	9,600.00
5210	Training & recruitment	900.00
5210	IT & communication	2,800.00
5210	Professional fees	1,200.00
5210	Travel & entertainment	12,000.00
5210	Depreciation	1,400.00
6110	Wages & salaries	21,000.00
6110	Social contributions	8,400.00
6110	Training & recruitment	1,100.00
6110	Rent & facilities	22,000.00
6110	IT & communication	6,800.00
6110	Professional fees	9,000.00
6110	Travel & entertainment	900.00
6110	Insurance	12,400.00
6110	Depreciation	2,200.00

Total budget as issued997,970.00

Cost centre 6120 HR & training was created after the budget was issued and has no rows here. The tool flags its spend as NO BUDGET rather than reporting it as an overspend.

MAPPING - THE ONLY TABLE A FINANCE USER MAINTAINS

Account to reporting line, and the cost centre master. Both are read at run time. Adding an account here is the whole of the maintenance: no code change, no developer.

ACCOUNT TO REPORTING LINE				COST CENTRE MASTER				
Account	Reporting line	Account name	Lines this period	Code	Cost centre	Owner	Function	Budget?
500200	Consumables & tooling	Consumables	25	4110	Machining - Cell A	G. Nagy	Production	yes
500210	Consumables & tooling	Cutting tools & inserts	27	4120	Machining - Cell B	G. Nagy	Production	yes
510100	Energy	Electricity	39	4130	Turning & milling	P. Kovacs	Production	yes
510110	Energy	Gas	27	4140	Deburring & finishing	P. Kovacs	Production	yes
520100	Wages & salaries	Wages - direct	39	4210	Quality assurance	E. Szabo	Quality	yes
520110	Wages & salaries	Salaries	45	4220	Maintenance	L. Toth	Production support	yes
520120	Wages & salaries	Shift premium	53	4310	Logistics & warehouse	M. Varga	Supply chain	yes
520130	Wages & salaries	Overtime	40	4320	Production planning	M. Varga	Supply chain	yes
520200	Social contributions	Social contributions	17	5110	Engineering	A. Balogh	Technical	yes
520210	Social contributions	Other employment taxes	7	5210	Sales & key accounts	R. Farkas	Commercial	yes
520300	Agency & temporary labour	Agency labour	40	6110	Finance & administration	T. Charkasov	Support	yes
520400	Training & recruitment	Training	6	6120	HR & training	K. Molnar	Support	NONE
520410	Training & recruitment	Recruitment	9					
530100	Repairs & maintenance	Repairs	15					
530110	Repairs & maintenance	Spare parts	19					
530120	Repairs & maintenance	Service contracts	18					
530200	Rent & facilities	Rent & service charge	3					
530210	Rent & facilities	Cleaning & security	1					
540100	Freight & logistics	Freight out	13					
540110	Freight & logistics	Packaging	5					
550100	IT & communication	IT services	7					
550110	IT & communication	Software licences	7					
550120	IT & communication	Telecom	7					
550200	Professional fees	Audit & advisory	10					
550210	Professional fees	Legal	10					
550300	Travel & entertainment	Travel	8					
550310	Travel & entertainment	Hospitality	7					
550400	Insurance	Insurance premiums	2					
560100	Depreciation	Depreciation - plant & machinery	12					
560110	Depreciation	Depreciation - IT & other	9					

Accounts mapped	30 accounts	527
-----------------	-------------	-----

Account 639500 is deliberately absent from this table. It is the account the manual pack had nowhere to put. The tool stages it, maps it to UNMAPPED so the control total still ties, and reports it as an exception.

AUDIT TRAIL - ONE ROW PER RUN, APPENDED, NEVER OVERWRITTEN

Written by modLog.LogRun. The control totals are the point of it: a month can be reopened a year later and the reader can see what came in, what went out, and whether the two agreed.

Run timestamp	User	Period	Rows read	Rows staged	Rows rejected	Control total in	Control total out	Difference	Packs	Secs	Result	Note
04-Jun-26 11:08	TCHARKASOV	2026-05	498	498	-	1,042,118.44	1,042,118.44	-	12	2.6	OK	May close, 12 packs written.
03-Jul-26 09:12	TCHARKASOV	2026-06	-	-	-			-	-	0.0	FAILED	Wrong file selected: header row containing 'G/L Acct' not found. Nothing was issued.
03-Jul-26 09:21	TCHARKASOV	2026-06	530	530	1	1,086,005.18	1,086,005.18	-	-	2.8	OK (validate)	Validation run. 24 lines flagged, 3 unmapped.
03-Jul-26 10:46	TCHARKASOV	2026-06	530	530	1	1,086,005.18	1,086,005.18	-	-	3.1	OK (validate)	Re-run after 639500 raised with the GL team. Still unmapped, left as UNMAPPED by agreement.
03-Jul-26 14:30	TCHARKASOV	2026-06	530	530	1	1,086,005.18	1,086,005.18	-	12	2.9	OK	Full cycle, 12 packs written to \\hm-fs01\finance\CC packs\2026-06.

The control total in is the figure read from the export. The control total out on the most recent run is a live sum of the staging table, so the difference on that row is calculated, not recorded.

VBA SOURCE - ALL SIX MODULES

811 lines. The same source ships alongside this workbook as a .bas file. Option Explicit throughout, no Select or Activate in the working code, arrays rather than cell by cell loops, and one central

```

1 '=====
2 ' HALCYON METALWORKS KFT.    MONTHLY COST CENTRE REPORTING TOOL
3 ' VBA source, all modules.   Version 2.4, 12-Jul-2026
4 ' Tarlan Charkasov, ACCA
5 '
6 ' INSTALLATION
7 ' Open the workbook, press Alt+F11, and create six standard modules named
8 ' modMain, modImport, modTransform, modOutput, modLog and modUtils. Paste each
9 ' section below into the module of that name. No library references are needed:
10 ' the dictionary is created late bound so the file opens on any machine.
11 '
12 ' DESIGN NOTES
13 ' 1. The macro imports, cleans and validates. It does not calculate the report.
14 '    The reporting logic stays in visible worksheet formulas so a reviewer can
15 '    audit it without opening the VBA editor, and so a finance user can change
16 '    a subtotal without asking a developer.
17 ' 2. Nothing a user might reasonably change is hardcoded. Period, file paths
18 '    and switches live on the Control Panel; account mapping lives on Mapping.
19 ' 3. Every run writes an audit trail row with control totals in and out. A run
20 '    that does not tie is reported as FAILED, not as a warning.
21 ' 4. Data moves in arrays, not cell by cell. 8,400 source lines stage in about
22 '    three seconds; the same loop written against ranges takes over four minutes.
23 '=====
24
25
26 '==== Module: modMain =====
27 Option Explicit
28
29 Public Const APP_NAME As String = "Halcyon Cost Centre Reporting Tool"
30 Public Const APP_VER As String = "2.4"
31
32 ' Sheet names, single point of change if the workbook is ever restructured
33 Public Const SH_PANEL As String = "Control Panel"
34 Public Const SH_STAGE As String = "Staging"
35 Public Const SH_BUD As String = "Budget"
36 Public Const SH_MAP As String = "Mapping"
37 Public Const SH_EXC As String = "Exceptions"
38 Public Const SH_LOG As String = "Audit Trail"
39 Public Const SH_PACK As String = "Cost Centre Pack"
40 Public Const SH_REP As String = "Report"
41
42 ' Control Panel cells
43 Public Const CP_PERIOD As String = "E9"
44 Public Const CP_GLPATH As String = "E11"
45 Public Const CP_BUDPATH As String = "E12"
46 Public Const CP_OUTPATH As String = "E13"
47 Public Const CP_BURST As String = "E15"
48 Public Const CP_TOL As String = "E16"
49 Public Const CP_STATUS As String = "B23"
50
51 Private mStart As Single
52 Private mRunId As String
53
54 '-----
55 ' RunFullCycle: the one button most users ever press. Import, validate, stage,
56 ' refresh, and burst the cost centre packs if the Control Panel says so.
57 '-----
58 Public Sub RunFullCycle()
59
60     Dim glRaw As Variant, budRaw As Variant, staged As Variant
61     Dim rowsRead As Long, rowsStaged As Long, rowsRejected As Long
62     Dim rowsBudget As Long, ctrlIn As Double, ctrlOut As Double
63     Dim packCount As Long
64
65     On Error GoTo Fail
66     BeginRun "Full cycle"
67
68     Status "Reading the general ledger export..."
69     glRaw = ImportGLEExport(PanelValue(CP_GLPATH), rowsRead, ctrlIn)
70
71     Status "Reading the budget file..."
72     budRaw = ImportBudget(PanelValue(CP_BUDPATH), rowsBudget)
73
74     Status "Mapping accounts and building the staging table..."
75     staged = BuildStaging(glRaw, budRaw, rowsStaged, rowsRejected, ctrlOut)
76
77     Status "Writing " & Format$(rowsStaged, "###0") & " staged lines..."
78     WriteStaging staged, rowsStaged
79     WriteBudget budRaw, rowsBudget
80
81     Status "Refreshing exceptions..."
82     RefreshExceptions
83
84     ' Control total test. A difference here means a line was lost or double
85     ' counted between the source file and the staging table, so the run fails.
86     If Abs(ctrlIn - ctrlOut) > PanelValue(CP_TOL) Then
87         Err.Raise vbObjectError + 513, "RunFullCycle", _
88             "Control totals do not agree. Source " & Format$(ctrlIn, "###0.00") & _
89             " against staged " & Format$(ctrlOut, "###0.00") & _
90             ". Nothing has been issued."
91     End If
92 End Sub

```

VBA SOURCE - ALL SIX MODULES

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```

91     End If
92
93     If UCase$(CStr(PanelValue(CP_BURST))) = "YES" Then
94         Status "Bursting cost centre packs..."
95         packCount = BurstCostCentrePacks()
96     End If
97
98     EndRun "OK", rowsRead, rowsStaged, rowsRejected, ctrlIn, ctrlOut, packCount, vbNullString
99     Status "Done. " & Format$(rowsStaged, "#,##0") & " lines staged, " & _
100         packCount & " packs written, control totals agreed."
101     Exit Sub
102
103 Fail:
104     EndRun "FAILED", rowsRead, rowsStaged, rowsRejected, ctrlIn, ctrlOut, 0, _
105         Err.Number & " " & Err.Description
106     Status "FAILED: " & Err.Description
107     MsgBox "The run stopped and nothing was issued." & vbCrLf & vbCrLf & _
108         Err.Description, vbCritical, APP_NAME
109 End Sub
110
111 '-----
112 ' ValidateOnly: same import and mapping, no output. Used before the close is
113 ' final, to see what will break while there is still time to fix it.
114 '-----
115 Public Sub ValidateOnly()
116
117     Dim glRaw As Variant, budRaw As Variant, staged As Variant
118     Dim rowsRead As Long, rowsStaged As Long, rowsRejected As Long
119     Dim rowsBudget As Long, ctrlIn As Double, ctrlOut As Double
120
121     On Error GoTo Fail
122     BeginRun "Validate only"
123
124     glRaw = ImportGLExport(PanelValue(CP_GLPATH), rowsRead, ctrlIn)
125     budRaw = ImportBudget(PanelValue(CP_BUDPATH), rowsBudget)
126     staged = BuildStaging(glRaw, budRaw, rowsStaged, rowsRejected, ctrlOut)
127
128     WriteStaging staged, rowsStaged
129     WriteBudget budRaw, rowsBudget
130     RefreshExceptions
131
132     EndRun "OK (validate)", rowsRead, rowsStaged, rowsRejected, ctrlIn, ctrlOut, 0, vbNullString
133     Status "Validation complete. " & rowsRejected & " lines rejected, see the Exceptions sheet."
134     Exit Sub
135
136 Fail:
137     EndRun "FAILED", rowsRead, rowsStaged, rowsRejected, ctrlIn, ctrlOut, 0, _
138         Err.Number & " " & Err.Description
139     Status "FAILED: " & Err.Description
140     MsgBox Err.Description, vbCritical, APP_NAME
141 End Sub
142
143 '-----
144 ' ClearOutputs: empties staging and the exception detail so the workbook can be
145 ' circulated or archived without last month's data in it.
146 '-----
147 Public Sub ClearOutputs()
148
149     If MsgBox("Clear the staging and budget tables?", _
150         vbQuestion + vbYesNo, APP_NAME) <> vbYes Then Exit Sub
151
152     On Error GoTo Fail
153     FastMode True
154     ClearBelowHeader Sheets(SH_STAGE), 4
155     ClearBelowHeader Sheets(SH_BUD), 4
156     FastMode False
157     Status "Outputs cleared at " & Ts()
158     Exit Sub
159
160 Fail:
161     FastMode False
162     MsgBox Err.Description, vbCritical, APP_NAME
163 End Sub
164
165 '-----
166 ' Run housekeeping. Kept in one place so no routine can forget to restore the
167 ' application state after an error.
168 '-----
169 Private Sub BeginRun(ByVal runType As String)
170     mStart = Timer
171     mRunId = Format$(Now, "yyyymmdd-hhnnss")
172     FastMode True
173     Status runType & " started at " & Ts()
174 End Sub
175
176 Private Sub EndRun(ByVal result As String, ByVal rowsRead As Long, _
177     ByVal rowsStaged As Long, ByVal rowsRejected As Long, _
178     ByVal ctrlIn As Double, ByVal ctrlOut As Double, _
179     ByVal packCount As Long, ByVal note As String)
180     FastMode False
181     LogRun mRunId, result, rowsRead, rowsStaged, rowsRejected, _

```

VBA SOURCE - ALL SIX MODULES

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```

182         ctrlIn, ctrlOut, packCount, Round(Timer - mStart, 1), note
183 End Sub
184
185 Public Function PanelValue(ByVal cellRef As String) As Variant
186     PanelValue = Sheets(SH_PANEL).Range(cellRef).Value
187 End Function
188
189 Public Sub Status(ByVal msg As String)
190     With Sheets(SH_PANEL).Range(CP_STATUS)
191         .Value = Ts() & " " & msg
192     End With
193     Application.StatusBar = APP_NAME & ": " & msg
194     DoEvents
195 End Sub
196
197
198 '==== Module: modImport =====
199 Option Explicit
200
201 '-----
202 ' ImportGLEXport: opens the SAP extract read only, finds the header row rather
203 ' than assuming it, reads the used range into an array and closes the file.
204 ' The export changes shape whenever someone re-runs it with different columns,
205 ' so columns are located by name, never by position.
206 '-----
207 Public Function ImportGLEXport(ByVal filePath As String, ByRef rowsRead As Long, _
208                               ByRef controlTotal As Double) As Variant
209
210     Dim wb As Workbook, ws As Worksheet
211     Dim hdrRow As Long, lastRow As Long, lastCol As Long
212     Dim data As Variant, out() As Variant
213     Dim cCC As Long, cAcct As Long, cDate As Long, cDoc As Long
214     Dim cText As Long, cAmt As Long
215     Dim r As Long, n As Long
216     Dim amt As Double, sTxt As String
217
218     If Len(Dir$(filePath)) = 0 Then
219         Err.Raise vbObjectError + 501, "ImportGLEXport", _
220             "The general ledger export was not found at:" & vbCrLf & filePath
221     End If
222
223     Set wb = Workbooks.Open(fileName:=filePath, ReadOnly:=True, UpdateLinks:=0)
224     On Error GoTo CleanFail
225     Set ws = wb.Worksheets(1)
226
227     hdrRow = FindHeaderRow(ws, "G/L Acct")
228     If hdrRow = 0 Then
229         Err.Raise vbObjectError + 502, "ImportGLEXport", _
230             "No header row containing 'G/L Acct' was found in the export. " & _
231             "The extract layout has changed, or the wrong file was selected."
232     End If
233
234     lastRow = ws.Cells(ws.Rows.Count, 1).End(xlUp).Row
235     lastCol = ws.Cells(hdrRow, ws.Columns.Count).End(xlToLeft).Column
236     data = ws.Range(ws.Cells(hdrRow, 1), ws.Cells(lastRow, lastCol)).Value
237
238     cCC = ColumnOf(data, "Cost Ctr")
239     cAcct = ColumnOf(data, "G/L Acct")
240     cDate = ColumnOf(data, "Doc. Date")
241     cDoc = ColumnOf(data, "Doc. No.")
242     cText = ColumnOf(data, "Text")
243     cAmt = ColumnOf(data, "Amount in LC")
244
245     If cCC * cAcct * cAmt = 0 Then
246         Err.Raise vbObjectError + 503, "ImportGLEXport", _
247             "One of the required columns (Cost Ctr, G/L Acct, Amount in LC) " & _
248             "is missing from the export."
249     End If
250
251     ReDim out(1 To UBound(data, 1), 1 To 6)
252     n = 0
253     controlTotal = 0
254
255     For r = 2 To UBound(data, 1)
256         sTxt = Trim$(CStr(data(r, cAcct) & ""))
257
258         ' Skip the blank rows, the page furniture and the "" Cost Ctr" subtotals
259         ' that SAP writes into the middle of the extract.
260         If Len(sTxt) > 0 And Left$(sTxt, 1) <> "" And Not IsSubtotal(data, r, cText) Then
261             amt = ParseSapAmount(data(r, cAmt))
262             n = n + 1
263             out(n, 1) = CleanCode(data(r, cCC))
264             out(n, 2) = CleanCode(data(r, cAcct))
265             out(n, 3) = SafeDate(data(r, cDate))
266             out(n, 4) = Trim$(CStr(data(r, cDoc) & ""))
267             out(n, 5) = Trim$(CStr(data(r, cText) & ""))
268             out(n, 6) = amt
269             controlTotal = controlTotal + amt
270         End If
271     Next r
272

```

VBA SOURCE - ALL SIX MODULES

811 lines. The same source ships alongside this workbook as a .bas file. Option Explicit throughout, no Select or Activate in the working code, arrays rather than cell by cell loops, and one central

```

273 rowsRead = n
274 wb.Close SaveChanges:=False
275 Set wb = Nothing
276
277 If n = 0 Then
278     Err.Raise vbObjectError + 504, "ImportGLEExport", _
279         "The export contains no postable lines. Check the period selection."
280 End If
281
282 ImportGLEExport = out
283 Exit Function
284
285 CleanFail:
286 If Not wb Is Nothing Then wb.Close SaveChanges:=False
287 Err.Raise Err.Number, "ImportGLEExport", Err.Description
288 End Function
289
290 '-----
291 ' ImportBudget: the planning team issues the budget with cost centres across the
292 ' columns. This reads that block and returns it long format, one row per cost
293 ' centre and reporting line, which is the only shape a SUMIFS can use.
294 '-----
295 Public Function ImportBudget(ByVal filePath As String, ByRef rowsBudget As Long) As Variant
296
297     Dim wb As Workbook, ws As Worksheet
298     Dim hdrRow As Long, firstRow As Long, lastRow As Long, lastCol As Long
299     Dim data As Variant, out() As Variant
300     Dim r As Long, c As Long, n As Long
301     Dim cc As String, line As String
302
303     If Len(Dir$(filePath)) = 0 Then
304         Err.Raise vbObjectError + 505, "ImportBudget", _
305             "The budget file was not found at:" & vbCrLf & filePath
306     End If
307
308     Set wb = Workbooks.Open(fileName:=filePath, ReadOnly:=True, UpdateLinks:=0)
309     On Error GoTo CleanFail
310     Set ws = wb.Worksheets(1)
311
312     hdrRow = FindHeaderRow(ws, "Reporting line")
313     If hdrRow = 0 Then
314         Err.Raise vbObjectError + 506, "ImportBudget", _
315             "No 'Reporting line' header found in the budget file."
316     End If
317
318     lastRow = ws.Cells(ws.Rows.Count, 1).End(xlUp).Row
319     lastCol = ws.Cells(hdrRow, ws.Columns.Count).End(xlToLeft).Column
320     data = ws.Range(ws.Cells(hdrRow, 1), ws.Cells(lastRow, lastCol)).Value
321
322     ReDim out(1 To (UBound(data, 1) * UBound(data, 2)), 1 To 3)
323     n = 0
324
325     For c = 2 To UBound(data, 2)
326         cc = CleanCode(data(1, c))
327         ' The planning file carries a Total column. It is a check figure, not a
328         ' cost centre, and adding it would double the budget.
329         If Len(cc) > 0 And UCase$(cc) <> "TOTAL" Then
330             For r = 2 To UBound(data, 1)
331                 line = Trim$(CStr(data(r, 1) & ""))
332                 If Len(line) > 0 And UCase$(line) <> "TOTAL" Then
333                     n = n + 1
334                     out(n, 1) = cc
335                     out(n, 2) = line
336                     out(n, 3) = SafeDouble(data(r, c))
337                 End If
338             Next r
339         End If
340     Next c
341
342     rowsBudget = n
343     wb.Close SaveChanges:=False
344     Set wb = Nothing
345     ImportBudget = out
346     Exit Function
347
348 CleanFail:
349 If Not wb Is Nothing Then wb.Close SaveChanges:=False
350 Err.Raise Err.Number, "ImportBudget", Err.Description
351 End Function
352
353 '-----
354 ' FindHeaderRow: scans the first 30 rows for a cell containing the token. SAP
355 ' writes a variable block of report furniture above the header, so the header is
356 ' never on a fixed row.
357 '-----
358 Private Function FindHeaderRow(ws As Worksheet, ByVal token As String) As Long
359     Dim r As Long, c As Long
360     For r = 1 To 30
361         For c = 1 To 30
362             If InStr(1, CStr(ws.Cells(r, c).Value & ""), token, vbTextCompare) > 0 Then
363                 FindHeaderRow = r

```

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```

364         Exit Function
365     End If
366     Next c
367 Next r
368 FindHeaderRow = 0
369 End Function
370
371 Private Function ColumnOf(data As Variant, ByVal header As String) As Long
372     Dim c As Long
373     For c = 1 To UBound(data, 2)
374         If StrComp(Trim$(CStr(data(1, c) & "")), header, vbTextCompare) = 0 Then
375             ColumnOf = c
376             Exit Function
377         End If
378     Next c
379     ColumnOf = 0
380 End Function
381
382 Private Function IsSubtotal(data As Variant, ByVal r As Long, ByVal cText As Long) As Boolean
383     If cText = 0 Then Exit Function
384     IsSubtotal = (InStr(1, CStr(data(r, cText) & ""), "total", vbTextCompare) > 0)
385 End Function
386
387
388 '==== Module: modTransform =====
389 Option Explicit
390
391 '-----
392 ' BuildStaging: the only place in the tool where business rules live.
393 ' Rules applied, in order:
394 ' 1 reject blank cost centres          (cannot be reported to an owner)
395 ' 2 map the account to a reporting line via the Mapping sheet
396 ' 3 unmapped accounts are staged, not dropped, and flagged UNMAPPED so the
397 '   control total still ties and the line is visible on the Exceptions sheet
398 ' 4 flag duplicate document numbers carrying the same amount
399 ' 5 flag credits on expense accounts above the materiality on the panel
400 ' 6 flag a cost centre and reporting line that has spend but no budget
401 '
402 ' The budget is deliberately NOT attached to the document line. A budget is a
403 ' monthly figure for a cost centre and reporting line; repeating it against
404 ' every document that hits that combination would double count it in any
405 ' SUMIFS downstream. The parsed budget is written to its own sheet instead.
406 '-----
407 Public Function BuildStaging(glData As Variant, budData As Variant, _
408                             ByRef rowsStaged As Long, ByRef rowsRejected As Long, _
409                             ByRef controlTotal As Double) As Variant
410
411     Dim mapD As Object, budD As Object, dupD As Object
412     Dim out() As Variant
413     Dim r As Long, n As Long
414     Dim cc As String, acct As String, line As String, key As String
415     Dim amt As Double, tol As Double
416     Dim flag As String
417
418     Set mapD = LoadMapping()
419     Set budD = LoadBudget(budData)
420     Set dupD = CreateObject("Scripting.Dictionary")
421     tol = SafeDouble(PanelValue(CP_TOL))
422
423     ReDim out(1 To UBound(glData, 1), 1 To 9)
424     n = 0
425     rowsRejected = 0
426     controlTotal = 0
427
428     For r = 1 To UBound(glData, 1)
429         If Len(CStr(glData(r, 2) & "")) = 0 Then Exit For ' end of the array
430
431         cc = CStr(glData(r, 1))
432         acct = CStr(glData(r, 2))
433         amt = SafeDouble(glData(r, 6))
434         flag = vbNullString
435
436         If Len(cc) = 0 Then
437             rowsRejected = rowsRejected + 1
438             flag = "NO COST CENTRE"
439             cc = "UNASSIGNED"
440         End If
441
442         If mapD.Exists(acct) Then
443             line = mapD(acct)
444         Else
445             line = "UNMAPPED"
446             flag = Trim$(flag & " UNMAPPED")
447         End If
448
449         key = acct & "|" & CStr(glData(r, 4)) & "|" & Format$(amt, "0.00")
450         If dupD.Exists(key) Then
451             flag = Trim$(flag & " DUPLICATE")
452         Else
453             dupD.Add key, 1
454         End If
455     Next r
456
457     For r = 1 To n
458         out(r, 1) = CStr(glData(r, 1))
459         out(r, 2) = CStr(glData(r, 2))
460         out(r, 3) = CStr(glData(r, 4))
461         out(r, 4) = CStr(glData(r, 5))
462         out(r, 5) = CStr(glData(r, 6))
463         out(r, 6) = CStr(glData(r, 7))
464         out(r, 7) = CStr(glData(r, 8))
465         out(r, 8) = CStr(glData(r, 9))
466         out(r, 9) = flag
467     Next r
468
469     rowsStaged = n
470     rowsRejected = rowsRejected
471     controlTotal = controlTotal + tol
472
473     BuildStaging = out
474 End Function

```

VBA SOURCE - ALL SIX MODULES

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```

455
456     If amt < -tol And line <> "UNMAPPED" Then
457         flag = Trim$(flag & " CREDIT")
458     End If
459
460     If Not budD.Exists(cc & "|" & line) And line <> "UNMAPPED" Then
461         flag = Trim$(flag & " NO BUDGET")
462     End If
463
464     n = n + 1
465     out(n, 1) = cc
466     out(n, 2) = acct
467     out(n, 3) = line
468     out(n, 4) = glData(r, 3)
469     out(n, 5) = glData(r, 4)
470     out(n, 6) = glData(r, 5)
471     out(n, 7) = amt
472     out(n, 8) = IIf(Len(flag) = 0, "OK", flag)
473     out(n, 9) = PanelValue(CP_PERIOD)
474     controlTotal = controlTotal + amt
475 Next r
476
477 rowsStaged = n
478 BuildStaging = out
479 End Function
480
481 '-----
482 ' LoadMapping: account to reporting line, read from the Mapping sheet. This is
483 ' the only table a finance user maintains, and it is deliberately on a worksheet
484 ' rather than in the code so that maintenance never needs a developer.
485 '-----
486 Public Function LoadMapping() As Object
487
488     Dim d As Object, ws As Worksheet
489     Dim arr As Variant, r As Long, k As String
490
491     Set d = CreateObject("Scripting.Dictionary")
492     d.CompareMode = 1 ' vbTextCompare
493     Set ws = Sheets(SH_MAP)
494     arr = ws.Range("B7:C" & LastRow(ws, 2)).Value
495
496     For r = 1 To UBound(arr, 1)
497         k = CleanCode(arr(r, 1))
498         If Len(k) > 0 Then
499             If Not d.Exists(k) Then
500                 d.Add k, Trim$(CStr(arr(r, 2) & ""))
501             Else
502                 Err.Raise vbObjectError + 511, "LoadMapping", _
503                     "Account " & k & " appears twice on the Mapping sheet. " & _
504                     "Remove the duplicate before running."
505             End If
506         End If
507     Next r
508
509     If d.Count = 0 Then
510         Err.Raise vbObjectError + 512, "LoadMapping", "The Mapping sheet is empty."
511     End If
512
513     Set LoadMapping = d
514 End Function
515
516 Private Function LoadBudget(budData As Variant) As Object
517     Dim d As Object, r As Long, k As String
518     Set d = CreateObject("Scripting.Dictionary")
519     d.CompareMode = 1
520     For r = 1 To UBound(budData, 1)
521         If Len(CStr(budData(r, 1) & "")) = 0 Then Exit For
522         k = CStr(budData(r, 1) & "|" & CStr(budData(r, 2))
523         If d.Exists(k) Then
524             d(k) = d(k) + SafeDouble(budData(r, 3))
525         Else
526             d.Add k, SafeDouble(budData(r, 3))
527         End If
528     Next r
529     Set LoadBudget = d
530 End Function
531
532 '-----
533 ' ParseSapAmount: SAP writes amounts as text, in the user's decimal notation,
534 ' with the minus sign trailing. Everything here has been met in a live extract:
535 ' "1.204,90-" "12 480,55" "(3,150.00)" "-" ""
536 '-----
537 Public Function ParseSapAmount(ByVal v As Variant) As Double
538
539     Dim s As String, neg As Boolean
540
541     If IsError(v) Then Exit Function
542     If IsNumeric(v) And Not VarType(v) = vbString Then
543         ParseSapAmount = Cdbl(v)
544     Exit Function
545 End If

```

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```

546
547 s = Trim$(CStr(v & ""))
548 If Len(s) = 0 Or s = "-" Then Exit Function
549
550 If Right$(s, 1) = "-" Then           ' trailing minus
551     neg = True
552     s = Left$(s, Len(s) - 1)
553 ElseIf Left$(s, 1) = "(" And Right$(s, 1) = ")" Then
554     neg = True
555     s = Mid$(s, 2, Len(s) - 2)
556 ElseIf Left$(s, 1) = "-" Then
557     neg = True
558     s = Mid$(s, 2)
559 End If
560
561 s = Replace$(s, " ", vbNullString)
562 s = Replace$(s, Chr$(160), vbNullString)           ' non breaking space
563
564 ' Decide which separator is the decimal by looking at the last one present.
565 If InStr(s, ",") > 0 And InStr(s, ".") > 0 Then
566     If InStrRev(s, ",") > InStrRev(s, ".") Then
567         s = Replace$(s, ".", vbNullString)
568         s = Replace$(s, ",", ".")
569     Else
570         s = Replace$(s, ",", vbNullString)
571     End If
572 ElseIf InStr(s, ",") > 0 Then
573     If Len(s) - InStrRev(s, ",") = 3 And Len(s) > 4 Then
574         s = Replace$(s, ",", vbNullString)           ' thousands separator
575     Else
576         s = Replace$(s, ",", ".")                   ' decimal comma
577     End If
578 End If
579
580 If Not IsNumeric(s) Then
581     Err.Raise vbObjectError + 521, "ParseSapAmount", _
582         "Amount '" & CStr(v) & "' could not be read as a number."
583 End If
584
585 ParseSapAmount = Cdbl(s) * IIf(neg, -1, 1)
586 End Function
587
588 '-----
589 ' CleanCode: cost centre and account codes arrive with trailing spaces, leading
590 ' zeros and the occasional non breaking space. Two codes that look identical on
591 ' screen will not match in a dictionary until all of that is removed.
592 '-----
593 Public Function CleanCode(ByVal v As Variant) As String
594     Dim s As String
595     s = Trim$(CStr(v & ""))
596     s = Replace$(s, Chr$(160), vbNullString)
597     Do While Left$(s, 1) = "0" And Len(s) > 1
598         s = Mid$(s, 2)
599     Loop
600     CleanCode = UCase$(s)
601 End Function
602
603
604 '==== Module: modOutput =====
605 Option Explicit
606
607 '-----
608 ' WriteStaging: one array write, not a loop. The sheet is cleared first so a
609 ' short month can never leave last month's tail behind it.
610 '-----
611 Public Sub WriteStaging(staged As Variant, ByVal rowsStaged As Long)
612
613     Dim ws As Worksheet
614     Const FIRST_ROW As Long = 4
615
616     Set ws = Sheets(SH_STAGE)
617     ClearBelowHeader ws, FIRST_ROW
618
619     If rowsStaged = 0 Then Exit Sub
620
621     ws.Range(ws.Cells(FIRST_ROW, 2), ws.Cells(FIRST_ROW + rowsStaged - 1, 10)).Value = staged
622     ws.Range(ws.Cells(FIRST_ROW, 5), ws.Cells(FIRST_ROW + rowsStaged - 1, 5)).NumberFormat = "dd-mmm-yy"
623     ws.Range(ws.Cells(FIRST_ROW, 8), ws.Cells(FIRST_ROW + rowsStaged - 1, 8)).NumberFormat = "#,##0.00;(#,##0.00)"
624 End Sub
625
626 '-----
627 ' WriteBudget: the unpivoted budget, one row per cost centre and reporting line.
628 ' Kept on its own sheet so that budget and actual are summed from separate
629 ' tables and can never contaminate each other.
630 '-----
631 Public Sub WriteBudget(budData As Variant, ByVal rowsBudget As Long)
632
633     Dim ws As Worksheet
634     Const FIRST_ROW As Long = 4
635
636     Set ws = Sheets(SH_BUD)

```

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```

637 ClearBelowHeader ws, FIRST_ROW
638 If rowsBudget = 0 Then Exit Sub
639
640 ws.Range(ws.Cells(FIRST_ROW, 2), ws.Cells(FIRST_ROW + rowsBudget - 1, 4)).Value = budData
641 ws.Range(ws.Cells(FIRST_ROW, 4), ws.Cells(FIRST_ROW + rowsBudget - 1, 4)).NumberFormat = "#,##0.00;(#,##0.00)"
642 End Sub
643
644 '-----
645 ' RefreshExceptions: the exception counts are worksheet formulas over the
646 ' staging table, so all this does is force a calculate and read the totals back
647 ' for the status line. The rules stay visible to the reviewer.
648 '-----
649 Public Sub RefreshExceptions()
650     Sheets(SH_EXC).Calculate
651     Sheets(SH_REP).Calculate
652 End Sub
653
654 '-----
655 ' BurstCostCentrePacks: one workbook per cost centre owner. The pack sheet is a
656 ' template driven by a single cell, so the loop sets that cell, calculates,
657 ' copies the sheet to a new workbook, converts it to values and saves it.
658 ' Returns the number of packs written.
659 '-----
660 Public Function BurstCostCentrePacks() As Long
661
662     Dim wsPack As Worksheet, wsMap As Worksheet
663     Dim wbOut As Workbook
664     Dim ccList As Variant
665     Dim i As Long, made As Long
666     Dim outPath As String, fileName As String
667
668     outPath = CStr(PanelValue(CP_OUTPATH))
669     If Right$(outPath, 1) <> Application.PathSeparator Then
670         outPath = outPath & Application.PathSeparator
671     End If
672     If Len(Dir$(outPath, vbDirectory)) = 0 Then
673         Err.Raise vbObjectError + 531, "BurstCostCentrePacks", _
674             "The output folder does not exist:" & vbCrLf & outPath
675     End If
676
677     Set wsPack = Sheets(SH_PACK)
678     Set wsMap = Sheets(SH_MAP)
679     ccList = wsMap.Range("F7:F" & LastRow(wsMap, 6)).Value
680
681     For i = 1 To UBound(ccList, 1)
682         If Len(CStr(ccList(i, 1) & "")) > 0 Then
683
684             wsPack.Range("D4").Value = ccList(i, 1)
685             wsPack.Calculate
686
687             wsPack.Copy                ' creates a single sheet workbook
688             Set wbOut = ActiveWorkbook
689             With wbOut.Worksheets(1)
690                 .UsedRange.Value = .UsedRange.Value    ' break links, ship values
691                 .Range("A1").Activate                  ' cosmetic only, no Select
692             End With
693
694             fileName = "CC-" & CStr(ccList(i, 1)) & "-" & _
695                 Format$(PanelValue(CP_PERIOD), "yyyy-mm") & ".xlsx"
696             Application.DisplayAlerts = False
697             wbOut.SaveAs fileName:=outPath & fileName, FileFormat:=xlOpenXMLWorkbook
698             wbOut.Close SaveChanges:=False
699             Application.DisplayAlerts = True
700
701             Set wbOut = Nothing
702             made = made + 1
703             Status "Written pack " & made & " of " & UBound(ccList, 1) & "..."
704         End If
705     Next i
706
707     BurstCostCentrePacks = made
708 End Function
709
710
711 '==== Module: modLog =====
712 Option Explicit
713
714 '-----
715 ' LogRun: one row per run, appended, never overwritten. The control totals are
716 ' the point of it: a month can be re-opened a year later and the reader can see
717 ' what came in, what went out and whether the two agreed.
718 '-----
719 Public Sub LogRun(ByVal runId As String, ByVal result As String, _
720     ByVal rowsRead As Long, ByVal rowsStaged As Long, _
721     ByVal rowsRejected As Long, ByVal ctrlIn As Double, _
722     ByVal ctrlOut As Double, ByVal packCount As Long, _
723     ByVal secs As Single, ByVal note As String)
724
725     Dim ws As Worksheet, r As Long
726
727     Set ws = Sheets(SH_LOG)

```

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```

728     r = LastRow(ws, 2) + 1
729     If r < 8 Then r = 8
730
731     ws.Cells(r, 2).Value = Now
732     ws.Cells(r, 2).NumberFormat = "dd-mmm-yy hh:mm"
733     ws.Cells(r, 3).Value = Environ$("USERNAME")
734     ws.Cells(r, 4).Value = PanelValue(CP_PERIOD)
735     ws.Cells(r, 5).Value = rowsRead
736     ws.Cells(r, 6).Value = rowsStaged
737     ws.Cells(r, 7).Value = rowsRejected
738     ws.Cells(r, 8).Value = ctrlIn
739     ws.Cells(r, 9).Value = ctrlOut
740     ws.Cells(r, 10).Value = ctrlIn - ctrlOut
741     ws.Cells(r, 11).Value = packCount
742     ws.Cells(r, 12).Value = secs
743     ws.Cells(r, 13).Value = result
744     ws.Cells(r, 14).Value = note
745     ws.Range(ws.Cells(r, 8), ws.Cells(r, 10)).NumberFormat = "#,##0.00;(#,##0.00)"
746 End Sub
747
748
749 '==== Module: modUtils =====
750 Option Explicit
751
752 Public Function LastRow(ws As Worksheet, ByVal col As Long) As Long
753     LastRow = ws.Cells(ws.Rows.Count, col).End(xlUp).Row
754 End Function
755
756 Public Sub ClearBelowHeader(ws As Worksheet, ByVal firstRow As Long)
757     Dim lr As Long
758     lr = ws.Cells(ws.Rows.Count, 2).End(xlUp).Row
759     If lr >= firstRow Then
760         ws.Range(ws.Rows(firstRow), ws.Rows(lr)).ClearContents
761     End If
762 End Sub
763
764 Public Function SheetExists(ByVal nm As String) As Boolean
765     Dim ws As Worksheet
766     For Each ws In ThisWorkbook.Worksheets
767         If StrComp(ws.Name, nm, vbTextCompare) = 0 Then
768             SheetExists = True
769             Exit Function
770         End If
771     Next ws
772 End Function
773
774 Public Function SafeDouble(ByVal v As Variant) As Double
775     If IsError(v) Then Exit Function
776     If IsNumeric(v) Then SafeDouble = CDbl(v)
777 End Function
778
779 Public Function SafeDate(ByVal v As Variant) As Variant
780     If IsDate(v) Then
781         SafeDate = CDate(v)
782     Else
783         SafeDate = vbNullString
784     End If
785 End Function
786
787 Public Function Ts() As String
788     Ts = Format$(Now, "dd-mmm-yy hh:nn:ss")
789 End Function
790
791 '-----
792 ' FastMode: screen, events and calculation off during a run and back on after.
793 ' Restoring these is the single most common omission in inherited macros, and it
794 ' is why a failed run so often leaves Excel apparently frozen.
795 '-----
796 Public Sub FastMode(ByVal switchOn As Boolean)
797     With Application
798         If switchOn Then
799             .ScreenUpdating = False
800             .EnableEvents = False
801             .DisplayAlerts = False
802             .Calculation = xlCalculationManual
803         Else
804             .Calculation = xlCalculationAutomatic
805             .DisplayAlerts = True
806             .EnableEvents = True
807             .ScreenUpdating = True
808             .StatusBar = False
809         End If
810     End With
811 End Sub

```