



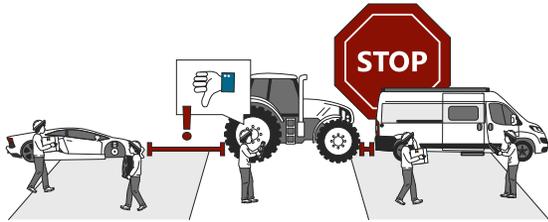
The Leading Standard for Line Balancing

Smooth production in multi-variant assembly lines with less planning effort

The screenshot displays the TAKTIQ software interface for line balancing. At the top, there are workstation icons for Rear 3, Front left, Front right, Drive, Engine, Rear Left, and Rear Right, each with associated performance metrics. The main workspace shows a Gantt chart for workstation RC (Rear 3) with a cycle time of 11.04 minutes. Below the chart is a task list with columns for ID, Mod., Feature R., Description, Group, Constraints, TE, Take Rate, FT, and Requirements. The task list includes various assembly tasks such as mounting plates, spooler brackets, and combustion chambers. On the right side, there is a Constraints Graph showing task dependencies and a 3D model of a car chassis with a highlighted part (ID 28).

Our Mission

Rethinking Planning – With Heart, Mind, and Algorithm



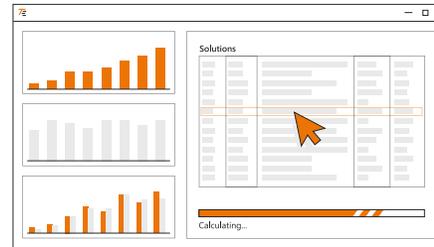
The Problem

Increasing Complexity, Rigid Planning

Increasing number of variants, fluctuating demand, and new cycle concepts are constantly increasing the complexity of production planning.

However, planners continue to lose valuable time with slow, inflexible software.

Decisions remain intransparent, potential untapped. This leads to low efficiency and loss of output.



The Solution

Innovative Algorithms, Intuitive Software

During their research and practical experience in final assembly back in 2010, founders Dr. Altemeier and Dr. Danne recognized that:

Only modern algorithms can sustainably increase efficiency in variant-rich lines and prevent unit losses.

Since then, over 180 years of experience have gone into the development of TAKTIQ.



The Impact

Production Planning Revolutionized Worldwide

Today, manufacturers worldwide rely on what makes TAKTIQ unique:

Complete variant mapping, dynamic assembly rate and utilization calculation, realistic simulations, and interactive and automatic line balancing.

For greater stability, transparency, and efficiency in production planning.

We Are TAKTIQ

Our Values



Production Needs no Standstill

That's why we drive
innovation forward!

1

Year
Development in
a month

15

Years of
innovation and
progress

Global Impact

In different variants

12%

Greater efficiency

11

Manufacturing industries

50%

Less planning effort

18

Countries in action

100%

Greater planning reliability



Appreciative Partnerships

And exchange of experiences with our customers

6500

Users

89

Well-known customers

250

Exchange events per year



Our References & Focus

Focus

- 20 Sek. – 1 Std. cycle time
- 15 – 1.000 workplaces
- 100 – 2.500.000 tasks
- 10 – 10²⁷ order variants

Industries manufacturing With TAKTIQ

- Automotive
- Agricultural Machinery
- Buses
- Cranes
- Excavator
- Forklift
- Motorhomes
- Tier 1 Supplier
- Transporter
- Trucks
- Vans

Dethleffs

FENDT



EHG



CAPRON



AKKODIS

DAF

EDAG



LIEBHERR

AS ARVATO SYSTEMS

Miele



Mercedes-Benz



PICANOL

VALTRA

FREIGHTLINER

HYMER

CLAAS

EvoBus



DAIMLER TRUCK

Baxter



RESRG
AUTOMOTIVE



FERCHAU

LEAR

SHACMAN

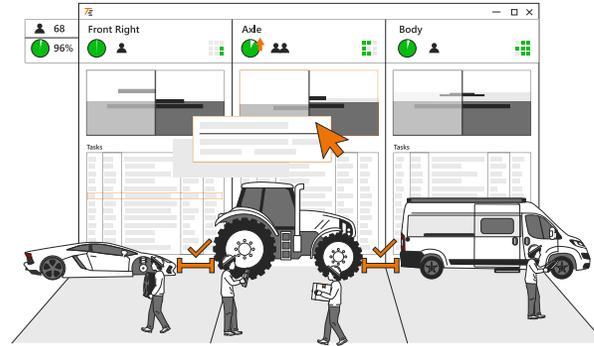


WACKER NEUSON
all it takes!

TAKTIQ

The Leading Standard
for Line Balancing and
Maximum Efficiency

Experience now



Two Leading Solutions

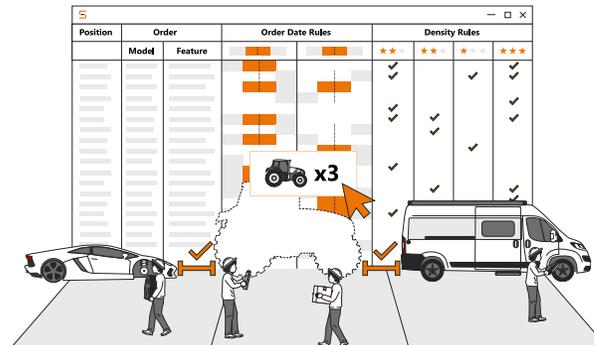
Perfectly aligned

Take advantage of the synergies of our software products to raise the efficiency and quality of your planning and production to an even higher level.

SEQUIQ

The Quickest Order
Sequencing for Smooth
Production

Experience now

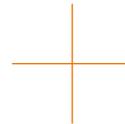




TAKTIQ Modules

Freely combine and Perfectly Align with the Requirements of Your Production

-  Line Balancing
-  Process Requirements
-  Order Program Scenarios



-  Ergonomics
-  Time Management
-  Assembly Instructions
-  Order Preview
-  Sequence Requirements



Line Balancing

Optimally distribute workers and tasks to workplaces for efficient and smooth production



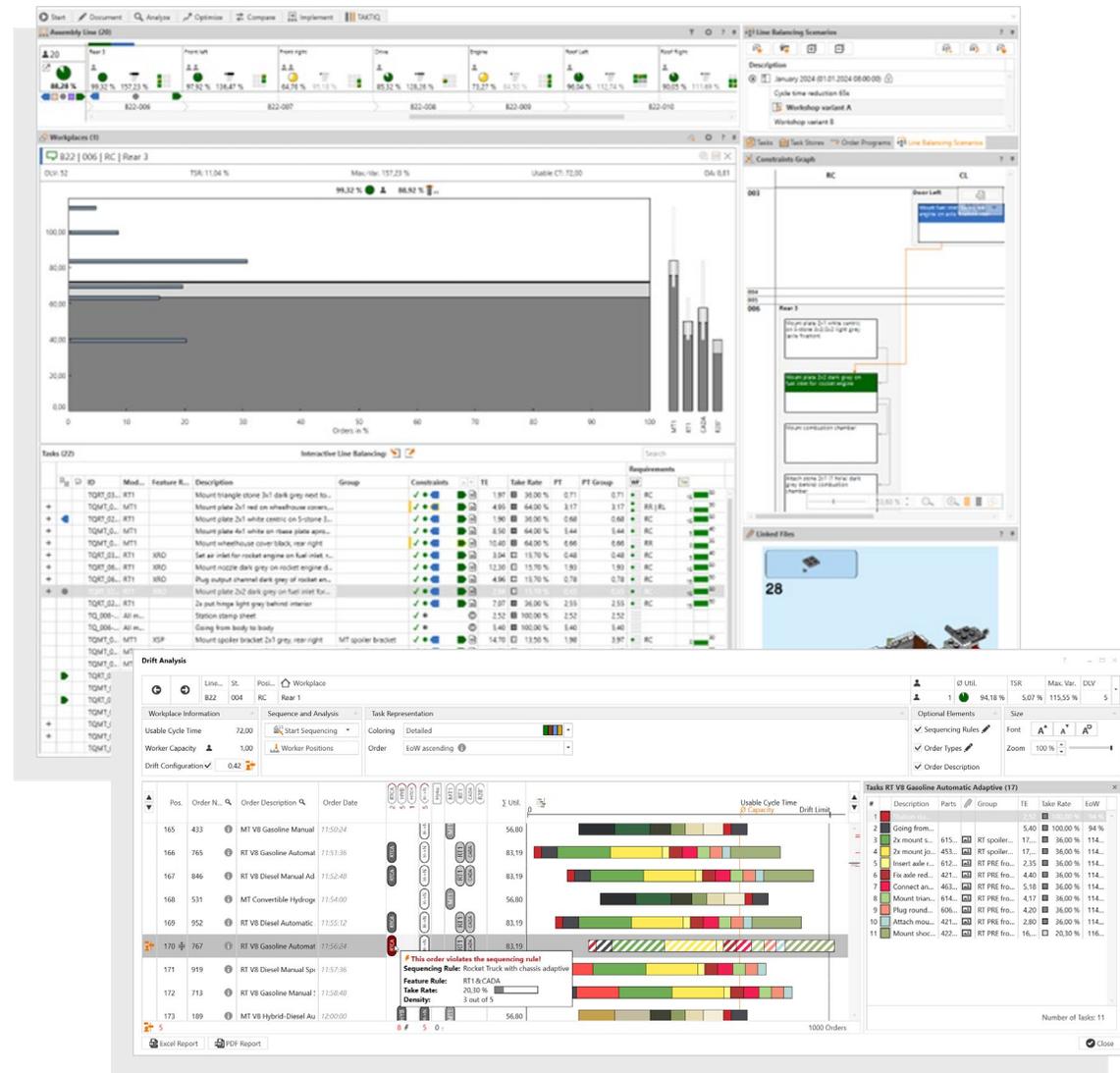
Maximum Efficiency



Smooth Production



Reduced Planning Effort





Your Benefits

Line Balancing with TAKTIQ

Valuable Information in Seconds

- Interactive and automatic line balancing
- Calculate, simulate and evaluate alternative planning scenarios extremely quickly (> 1,000,000 solutions in 5 seconds)
- Compare different cycle times and line balancing solutions
- Consider multiple order programs (variants and mix) and evaluate utilization and added value
- Flexible variant linking with any feature rules (And, Or, Not, Bracketing)

One Tool for Everything

- Documentation, simulation and optimization in one
- Integrated planning with additional modules: Time Management, Ergonomics, Order Preview, Order Sequencing and more

Convince Yourself Today

Try your free demo now or book your free live-demonstration at taktiq.de/experience

Ensure Feasibility

- Evaluate variants and production times in detail
- Use extensive analysis functions and visualized key figures (time spread, drift, ...)

Learn Quickly, Plan Intuitively

- Clear and easy to understand visual representations
- Modern user-friendly interfaces
- Automatic workshop protocols and reports
- Smooth multi-user planning with time versioned plan states (when using a server)

Permanent Technical Pioneer

- You always remain highly innovative through our agile development process
- Regular updates with new features are inspired by impulses from our customers



As a standard for line balancing, TAKTIQ already covers many areas of production planning. If you want to go even deeper in adjacent planning areas, you can benefit from our partnerships.

Process Planning



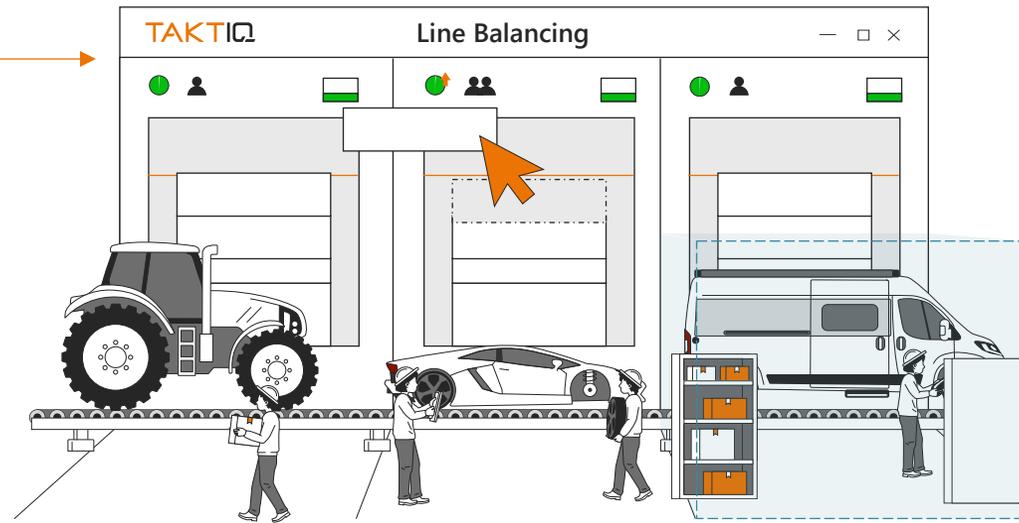
PTC Windchill
Product lifecycle management in 3D and with real-time data



Delmia
Digital planning and production based on the 3DEXPERIENCE platform



TiCon
Detailed time recording and analysis



Workstation Design



Work Designer
Process optimization and ergonomics analysis in 3D



ipolog
3D simulation with logistics planning

Interfaces

Easily integrate TAKTIQ into your IT landscape



Excel Im-/Export

Want to **test everything** first before investing in a long-term interface?

Simply export our Excel template directly from TAKTIQ, enter your data in the marked columns, and import it back in. We're happy to help!



Standard Interfaces

Connect your IT landscape **yourself, quickly and easily** with TAKTIQ thanks to our standard interfaces.

With our sample interfaces, your IT colleagues can already get an idea of the scope and structure.

Interface



Additional Interfaces

We already have interfaces to systems such as **TiCon, ema, ipolog, Windchill, Dassault, SAP**, and also customer-internal systems.

We are also happy to program an interface for **halocline, Siemens Teamcenter**, and other systems upon request.

Leading Manufacturers Rely on TAKTIQ

And these are the reasons



Safety and Stability

Dynamic utilization simulation and previews help you avoid bottlenecks and keep your production stable.



Plan Faster. Respond Smarter.

By using intelligence and automation in the planning process, you save valuable time and increase your responsiveness.



Efficiency at a New Level

Automatic or interactive – modern line balancing ensures maximum efficiency and harmony in production.



Focused. Innovative. Leading.

With in-depth knowledge and practical expertise, we support manufacturers as partners. By focusing on line balancing, we are constantly driving innovation.



Flexible and Future-Proof

Our established solution integrates seamlessly, remains adaptable to future requirements, and impresses with its rapid responsiveness.



Transparency at Every Stage of Planning

Complete variant mapping and dynamic take rate and utilization calculations form the basis for stable, data-driven decisions.



Working Easily and Happily

High accessibility and supportive workflows create a user experience that motivates and inspires.



Process Requirements

Record line balancing requirements (predecessors, heights, working positions, tools) to ensure feasible solutions



Identify More Potential



Ensure Feasibility



Enable Interactive and Automatic Line Balancing

The screenshot displays the 'Constraints' software interface. At the top, there are tabs for 'Constraints', 'Requirements', and 'Allowed Workplaces'. Below these is a table with columns for 'Number', 'Task ID', 'Models', 'Description', 'TE/FR', 'Effort', and 'Transfer'. The table lists various tasks such as 'Attach triangle stone white to rear corner of interior, right', 'Mount windshield, right', and 'Mount ventilation grille 2x1 bevelled black on rear, left'. To the right of the table is a 'Constraints Graph' showing a network of tasks and their dependencies. A pop-up window is visible over the graph, showing a grid of positions (RL, CL, FL, RC, CC, FC, PRE, RR, CR, FR) and options for 'Any position is required (Or)' and 'All positions required (And)'. The bottom right corner of the graph shows '395 shown, 395 tasks total'.



Your Benefits

With TAKTIQ Process Requirements

Optimize Production Even Further

- Identify optimization potentials more easily (reduce walking distances, avoid height changes, identify redundant tools)
- Speed up workshops and avoid overlooked requirements
- Use suggestion mechanisms and automatic line balancing
- Identify and resolve limiting constraints

Simple Maintenance, Great Benefits

- Easily maintain detailed requirements (height, working position, tools, ...)
- Manual and automatic task shifts meet all requirements
- Pre-evaluate investments in additional tools, shopping cart concepts and rebuilds

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Objective Feasibility Check

- Clearly define requirements and always comply
- Live feedback on compliance and violation of maintained constraints
- One-click simulation across multiple scenarios
- Avoid discussions

Everything in Sight

- Height profile in assembly line clearly visualized
- Directly detect conflicts in assembly areas
- Interactive constraints graph visualizes relationships between tasks
- Recognize and resolve large task groups and limiting constraints

Collect and Secure Knowledge Centrally

- Document production knowledge directly and pass it on easily
- Train new colleagues more quickly



Order Program Scenarios

Analyze order programs in detail as well as generate and simulate them based on sales forecasts



Generate Order Programs Close to Reality



Increase the Quality of Analyses



Extreme Responsiveness

The screenshot displays the TAKTIQ software interface. At the top, there are menu options: Start, Document, Analyze, and Optimize. Below this, the main window shows 'Order Program [RT1, MT1] (1000)' with tabs for 'Order Features (124)' and 'Order Variants (279)'. A search bar is present. The main table lists various models with their respective take rates and target take rates. A progress bar indicates the percentage of completion for each model. A dialog box titled 'Generate Order Program [Order Program [RT1, MT1]]' is open, showing a table of piece counts for models MT1 and RT1. The dialog also includes a 'Parameterization' section with checkboxes for 'Keep each feature at least once' and 'Keep each order variant at least once', and a 'Target piece count' field set to 1000. Buttons for 'Generate Order Program' and 'Cancel' are at the bottom of the dialog.

Order...	Weighting	Original Take Rate	Target Take Rate	Take Rate	0%	100%	Description	Category	Categ
MV6G	★★★	9,80 %	6,80 %	9,80 %		+3,00 %	Motor V6 Gasoline	MOT	Motor
MV6D	★★★	12,10 %	8,90 %	12,10 %		+3,20 %	Motor V6 Diesel	MOT	Motor
MHYD	★★★	6,60 %	4,00 %	6,60 %		+2,60 %	Motor Hydrogen	MOT	Motor
MH8G	★★★	2,60 %	2,60 %	2,60 %		0,00 %	Motor Hybrid V8 Gasoline	MOT	Motor
MH8D	★★★	4,50 %	4,50 %	4,50 %		0,00 %	Motor Hybrid V8 Diesel	MOT	Motor
MH6G	★★★	4,30 %	4,30 %	4,30 %		0,00 %	Motor Hybrid V6 Gasoline	MOT	Motor
MH6D	★★★	4,10 %	4,10 %	4,10 %		0,00 %	Motor Hybrid V6 Diesel	MOT	Motor
MELE	★★★	5,40 %	8,00 %	5,40 %		-2,60 %	Motor Electric	MOT	Motor
XWI	★★★	31,20 %	31,20 %	31,20 %		0,00 %	Winch	XTRA	Extra
XTQ	★★★	21,40 %	21,40 %	21,40 %		0,00 %	TAKTIQ Sticker	XTRA	Extra
XSP	★★★	29,20 %	29,20 %	29,20 %		0,00 %	Spoiler	XTRA	Extra
XRO	★★★	15,70 %							
XUL	★★★	11,20 %							

Model	Piece count (original)	Target piece count (relati...	Target piece count (absol...
MT1	640	64,00	640
RT1	360	36,00	360



Your Benefits

With TAKTIQ Order Program Scenarios

Interactive and Live

- Adjust feature frequencies without having to edit individual order variants
- Automatic check of buildability rules when manually changing variants
- Simultaneous adjustment of several take rates and total number of orders
- Split order programs easily according to rules

Many Options, Easy Navigation

- Create features and use them for optimization or analysis as desired
- Sort order features into categories and easily find them again

Convince Yourself Today

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Plan Realistically

- Simulation based on different forecasts
- Detailed analysis of order variants incl. frequencies and correlation of features
- Buildability always guaranteed, as only existing order variants are used

Record-Breaking Processing Power

Mathematical optimization technology generates order program according to targets with minimum deviation

Perfect Addition

Evaluate the effect of alternative order programs in combination with the modules line balancing and optimal sequencing rules



Ergonomics

Determine and optimize ergonomic load per worker and perform live ergonomics assessment during line balancing



Certified Ergonomics



Maximum Efficiency & Ergonomics



Rapid Revaluation



Ergonomic Strains

Workplace / Task	Description	Linked Models	Feature Rule	Require...	Is CO...	Duration	Take Rate	Planne...	Posture	Trunk Rotation	Trunk tilt	Reach	Grip type
	Fix tank with screws				!	2.70		0,49					
	Visual control of the assembly work				!	0.54		0.10					
⊙ TQMT_009f_MT1	Mount block 4x2 black (tank gasoline) o...	MT1	FGAS			11.16	18,40 %	2,05					
	Insert tank				!	5.76		1.06					
	Remove 3 screws from container				!	2.16		0,40					
	Fix tank with screws				!	2.70		0,50					
	Visual control of the assembly work				!	0.54		0.10					
⊙ TQMT_009e1_MT1	Mount block 4x2 black (tank gasoline for...	MT1	FGHY			6.98	6,90 %	0,48					
	Place tank (small) and snap into place				!	3.78		0,26					
	Apply lubricant												
	Pull up hose and attach to tank												
	Visual control												
	Refill lubricant												
⊙ TQMT_009d_MT1	Mount block 4x2 black (batter												
	Place battery												

Ergonomic Evaluation

Total Result: 25,00 Points

Total Body = Posture + Action Forces + Loads + Extra Points

25,0 = 15,0 + 4,5 + 5,5 + 0,0

Forces = Posture + Extra Points + Organization + Upper Limbs

0,3 + 0,0 + 0,0 + 10,5 = 11,8

General

Physical Hierarchy: 822 | 007 | FL
Organizational Hierarchy: Assembly | 3626 | 8 | 2
Description: Front left

Force percentile: P40 (for execution)
Gender: Mostly men

Gross Shift Duration (Min.): 480.0
Break/Shift (Min.): 10.0 (1.0 Break(s))
Net Shift Duration (Min.): 470.0
Capacity (FE): 144.0
Piece Count in Reference Shift: 195.0

Total Body | Upper Limbs

Postures

Description	Norm. Duration	Base Posture	Trunk Rotation	Trunk Bending	Reach
Standing upright with support	56.8 s 60 s	2 Points	6.3 Points	3 Points	1.8 Points
Sitting upright	32.1 s 60 s	0 Points	0 Points	0 Points	1.8 Points
		2.0 Points	6.3 Points	3.0 Points	3.6 Points
					15.0 Points - 15 Points

Action Forces

Info	Intensity	Evaluation
⊙ Finger Forces		
Thumb to four fingers 45.0 N Static	3.0 S	2.6 Points
Thumb 80.0 N Static	36.9 % MMax	
⊙ Arm Forces		
Standing bent B: (forward) 70 N Dynamic		
Standing strongly bent B: (forward) 100 N Dynamic	0.8 x	1.9 Points
Standing strongly bent B: (forward) 70 N Dynamic		
Standing bent A+ (up) 55 N Dynamic		



Your Benefits

With TAKTIQ Ergonomics

Established Standards

- Assessment of ergonomic loads of workers by EAWS® or individual assessment methods of our customers.
- First company to be officially certified as EAWS® compliant by the German MTM Society



Automatic Line Balancing

Automatic line balancing procedures take ergonomic limit values into account (point or traffic light system)

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Realizable Workshop Results

- Integrated evaluation of ergonomics when developing new line balancing solutions.
- Better solutions and shorter planning time through direct live assessment of the ergonomic impact of each change (shift of tasks, order program, cycle time or shift schedule change)

Interactive Line Balancing

- Suggestions for shifting tasks with live calculation of resulting ergonomic effects.
- Achieve highest efficiency & ergonomic goals!

Faster (Re)Evaluation

- Documentation of ergonomic loads at the tasks level and simultaneous assessment of ergonomics at the workplace level
- Reuse of all determined ergonomic loads at tasks



Time Management

Define time requirements for tasks easily with time analyses building blocks and recognize added value



Time Management and Line Balancing in One



Time Analyses Building Blocks Defined Centrally



Clear and Understandable

The screenshot displays the TAKTIQ software interface, which is used for time management and line balancing. It features several key components:

- Task List:** A table listing tasks such as 'Connect block 2x1 dark green centric with bumper light grey' and 'Station stamp sheet', along with their descriptions, models, and time requirements.
- Data Cards:** A section on the right providing detailed information for specific tasks, including motion length and distance class.
- Assembly Line (20):** A visual representation of the production line with 19 workstations, showing the status of each workstation (e.g., 92.35%, 99.95%, 92.47%, etc.).
- Workplaces (1):** A section showing the status of the assembly line, including DLV (12), TSR (4.61%), Max-Var (122.94%), and Usable CT (72.00).
- Tasks (16):** A table showing the status of tasks, including ID, models, description, and time requirements.

Case of Get	Case of Place	Code	1	2	3
easy	approx.	AA	20	35	50
	loose	AB	30	45	60
	tight	AC	40	55	70
	approx.	AD	20	45	60
	loose	AE	30	55	70
	tight	AF	40	65	80
handful	approx.	AG	40	65	80
	loose	AH	25	45	55
> 1 kg to ≤ 8 kg	tight	AJ	40	65	75
	tight	AK	50	75	85
> 8 kg to ≤ 22 kg	approx.	AL	80	105	115
	loose	AM	95	120	130
	tight	AN	120	145	160

ID	Models	Description	TA	TE	Take Rate	PT
TQ_001-a1	All models	Station stamp sheet	2.52	100.00 %		
TQ_001-b1	All models	Going from body to body	5.40	100.00 %		
TQRT_004b_RT1	RT1	Mount axle bracket 2x1	4.75	36.00 %		
TQRT_004a_RT1	RT1	Mount axle bracket 2x1	4.75	36.00 %		
TQMT_002b_MT1	MT1	Turn underbody plate 14x2 grey by 180° - emp...	5.00	64.00 %		
TQMT_011b_MT1	MT1	Mount sill bracket side cover 4x1/2x1 grey cent...	36.90	64.00 %		2



Your Benefits

With TAKTIQ Time Management

Uniform Time Measurement

- Define modules and analyses centrally and use them on tasks
- Set performance levels and bonuses and deductions centrally
- Make value creation transparent through value added and non-value added
- Analyze frequency of use and proportions of time blocks

Faster to the Goal

- Combined use of estimation times and time analyses
- Fast identification of missing time analyses and active estimation times
- Transparent and comprehensible presentation

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Work Simpler

- Easy maintenance both at the task and across a workplace or the entire line
- Fast reuse of blocks that were used last or frequently
- Drag & drop of blocks to new time analyses lines
- Format comments and headings within time analyses
- Clear selection of blocks from customizable data cards

Define Own Standards

Working with any (also individual) modular systems (e.g. UAS)

Live Adjustment

Live update of all time analyses in case of adjustments of time analyses building blocks



Assembly Instructions

Communicate planning results to production via Excel or PDF and train workers with digital assembly instructions in TAKTIQ



Save Time in the Long Run



Secure and Pass On Knowledge



Generate Work Instructions Automatically

Legend: + = safety, Q = quality, A = archive, CC = critical features, SC = significant features, = positioning, = visual, = touch, = touch with caution, = marker, = function, = noise, = measure, = start/end

No.	Task Description	Symbol	Part No.	Reference	Position	Picture Index (Photo)	Tool
10	Check the connection of the module connectors of the cable channel with the markers	Q			0°		
20	Check whether the column seal is correct with the markers						
30	Check whether the fuse is connected to the ambient lighting						
40	Change of position from position A to C						
50	Check the presence and conformity of the assembly of the left dashboard clips Install the left fan Clad the panel Assemble the c Assemble t Check the p						
60	Check the p Install the r Clad the ps Assemble t Assemble t Check the p						

Digital Assembly Instructions

Options: Line...: 822, St.: 001, Posi...: PRE, Workplace: VM Axle

Font Size: A⁺ A⁻ A⁰

Media Display Time (Sec.): 3

View Options

Description	Is Visible	Highlighted
Description	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Group	<input checked="" type="checkbox"/>	<input type="checkbox"/>
TE	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Take Rate	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Models	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Engines	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Feature Rule	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Variant Split Feature Rule	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Task comment	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Constraints comment	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Assembly Usage Description	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Master Data: Description: **Plug fixation black into block 2x1 (2 holes) light grey, front left**
Group: RT PRE axle front left
TE: 11.50 (VA: 11.50, NVA: 0.00)
Take Rate: 36.00 %

Linked Files: TQRT-007.png

Tasks

#	Description	Parts	Group	TE	Take Rate	EoW	Models	Feature Rule
1	Yes Station stamp sheet			2.52	100.00 %	99 %	All models	
2	Yes Going from body to body			5.40	100.00 %	99 %	All models	
3	Yes Prepare spoiler base plate 6x2 black	379526	MT PRE spoiler	4.90	13.50 %	192 %	MT1	XSP
4	Yes Mount cover plate 4x2 smooth white on spoiler base plate 6x2 black	4560178	MT PRE spoiler	22.68	13.50 %	192 %	MT1	XSP
5	Yes Place sticker TAKTIQ		MT PRE spoiler	10.00	6.40 %	199 %	MT1	XSP&XTQ
6	Yes Turn spoiler module upside down 180 degrees		MT PRE spoiler	21.84	13.50 %	192 %	MT1	XSP
7	Yes Mount spoiler hinge 2x1 black on spoiler module, left	4515368	MT PRE spoiler	12.24	13.50 %	192 %	MT1	XSP
8	Yes Mount spoiler hinge 2x1 black on spoiler module, right	4515368	MT PRE spoiler	12.24	13.50 %	192 %	MT1	XSP
9	Yes Turn spoiler module back by 180 degrees		MT PRE spoiler	22.68	13.50 %	192 %	MT1	XSP
10	Yes Mount ventilation grille 2x1 bevelled black on spoiler module, right	4541191	MT PRE spoiler	14.50	13.50 %	192 %	MT1	XSP
11	Yes Mount ventilation grille 2x1 bevelled black on spoiler module, left	4541191	MT PRE spoiler	14.50	13.50 %	192 %	MT1	XSP
12	Yes Plug fixation black into block 2x1 (2 holes) light grey, front left	412171	RT PRE axle front left	11.50	36.00 %	187 %	RT1	
13	Yes Plug axle suspension black onto fixation black, front left	6280394	RT PRE axle front left	16.00	36.00 %	187 %	RT1	
14	Yes Insert axle into block 2x1 (2 holes) light grey, front left	6083620	RT PRF axle front left	12.18	36.00 %	187 %	RT1	

Number of Tasks: 23



Your Benefits

With TAKTIQ Assembly Instructions

Easily Train Production

- Autoplay for qualification with images and videos
- Flexible customization of the interface and displayed attributes as needed (shown content, font sizes, image representations)

Customize to Own Needs

- Individual format template with e.g. company- and country-specific language, design, logos
- Completely individual specifications of attributes (torques, tools, icons for sensitive or dangerous activities, etc.) as well as information on the document (inspector, version, releaser, etc.)
- Placement of images on extra pages according to specifications

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Generate Work Instructions Automatically

- Automatic adjustment of assembly instructions after moving tasks or adjusting tasks and workplaces
- Constantly updated illustration of the sequence at the workplace by linking tasks with images
- Summary and highlighting of attributes and cells automatically in the document
- Export to Excel or PDF according to individual specifications

One Time Effort, Every Time Benefit

- Information on tasks automatically moves with them when they are moved
- Linked files are available during scheduling, training and export instructions



Order Preview

Secure quantities and ensure smooth production through early detection of bottlenecks and better control of short-term capacity measures



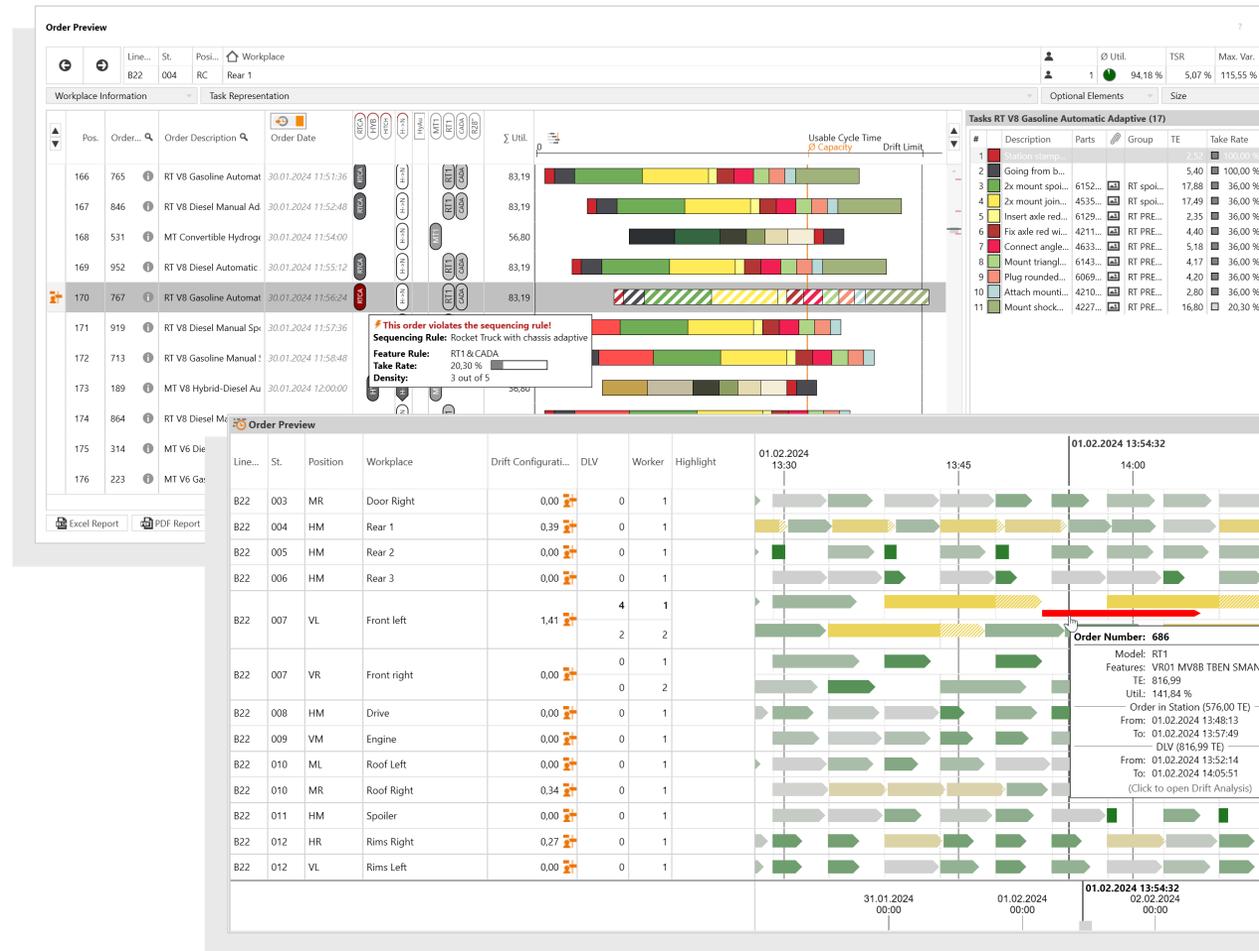
Avoid Bottlenecks



Make Detailed Predictions



Increase Product Quality





Your Benefits

With TAKTIQ Order Preview

React Early

- Live calculation of expected order dates based on real dates
- Feedback from external system or manual specification
- Alert support personnel in a targeted and timely manner

Work and Navigate Intuitively

- Update view live based on current time
- Automatically enter at the beginning of the shift with the appropriate data
- Flexible zoom of the view
- Display detailed contents and drift behavior of an order on demand
- Overview through individually marked order types

Convince Yourself Today

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Accurately Predict the Timing and Content of Bottlenecks

- Pre-calculate order deadlines at each station, taking into account plant structure, shift schedules, break times and disruptions
- Calculate expected drift limit violations based on individual drift configuration per workplace

Integrate Data Easily

Integration into MES systems for the transfer of real dates

Beautiful To Look At

Visualization of the detailed drift behavior per workplace



Sequence Requirements

Create sequencing rules analytically,
verify and optimize effectiveness



Optimal Production
Sequences



Smooth Order
Scheduling Process



Increased
Responsiveness

The screenshot displays the SAP Sequencing Rules interface. The main window shows a table of existing rules with columns for Active status, No., Short Descr., Description, Feature Rule, Density, Take Rate, Tension, Uniform Distribution, Uniform Distribution-Rate, Weighting, Violations, and Comment. Below the table are buttons for 'Start Sequencing', 'Create', and 'Export'. A 'Derive Sequencing Rules' dialog box is open, showing a table of derived rules with columns for Density, Feature Rule, Controlled Orders, Unnecessarily contr. Orders, Tension, Ø DLV, and WC-DLV. The dialog also includes 'Derivation Options' such as 'Allow &-Connections', 'Include Negation', 'Multiple Rules', and 'Focus on fast results'. A tooltip is visible over the 'Add manually defined sequencing rule' option, showing a configuration of '4 out of 5'.

Active	No.	Short Descr.	Description	Feature Rule	Density	Take Rate	Tension	Uniform Distribution	Uniform Distribution-Rate	Weighting	Violations	Comment
<input type="checkbox"/>	1	WSPO	Steering Wheel Sport	WSPO	1 out of 2	25,56 %	0,51	<input checked="" type="checkbox"/>	79,10 %	★★★★★	0	-Inactive-
<input checked="" type="checkbox"/>	2	RTCA	Rocket Truck with chassis adaptive	RT1 & CADA	3 out of 5	21,11 %	0,35	<input type="checkbox"/>	-	★★★★★	0	
<input checked="" type="checkbox"/>	3	HYB	Hybrid	EGHY EDHY	1 out of 2	20,00 %	0,40	<input type="checkbox"/>	-	★★★★★	0	
<input checked="" type="checkbox"/>	4	V8	V8 Gasoline/Diesel/Hybrid	MY8D MY8G MH8D MH8G	3 out of 4	53,33 %	0,71	<input type="checkbox"/>	-	★★★★★	0	
<input checked="" type="checkbox"/>	5	HITCH	Hitch	XHI	1 out of 2	10,00 %	0,20	<input checked="" type="checkbox"/>	71,60 %	★★★★★	0	

Density	Feature Rule	Controlled Orders	Unnecessarily contr. Orders	Tension	Ø DLV	WC-DLV
-	Without Sequencing Rules	-	-	-	30	107
2 out of 5	R28S VR05 VR01 VR07 VR03	36,00 %	0,00 %	0,90	0	30
2 out of 3	CADA R28S	51,70 %	0,00 %	0,78	1	49
		36,00 %	0,00 %	0,72	2	45
		36,00 %	0,00 %	0,54	10	99
		51,70 %	0,00 %	0,69	16	94
		51,70 %	0,00 %	0,65	23	95
3 out of 4	R28S VR05 VR01 VR07 VR03	36,00 %	0,00 %	0,48	23	107



Your Benefits

With TAKTIQ Sequence Requirements

Valuable Information in Seconds

- Simulate 1000 order schedules in a few seconds
- Evaluate expected impact of rule sets on sequencing and on bottlenecks in production
- Obtain well-founded predictive ability for "what-if" scenarios

Interactive Rule Derivation

- Recognize control-relevant order features and feature combinations for program planning and sequencing
- Derive distance rules automatically
- Recognize control-relevant orders and automatically describe them with rules
- Recognize maximum take rate for critical features

Convince Yourself Today

Try your free demo now or book your free live-demonstration at taktiq.de/experience

Get an Overview and Use It

- Transparency about limit values of your own production
- Recognize and react to bottlenecks and potentials at an early stage

Reduce Rules, Increase Quality

- Avoid unnecessary rules with overlap and impact analyses
- Rule sets can always be sequenced

Making Versatile Use of Findings

Receive recommendations for adjustments to line balancing and sequencing parameters

TAKTIQ

Achieve Harmony in Your Production!

Thank you for your attention

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