

Production Confirmation UI Flow

Complete frontend user journey for production confirmation in the MES system.

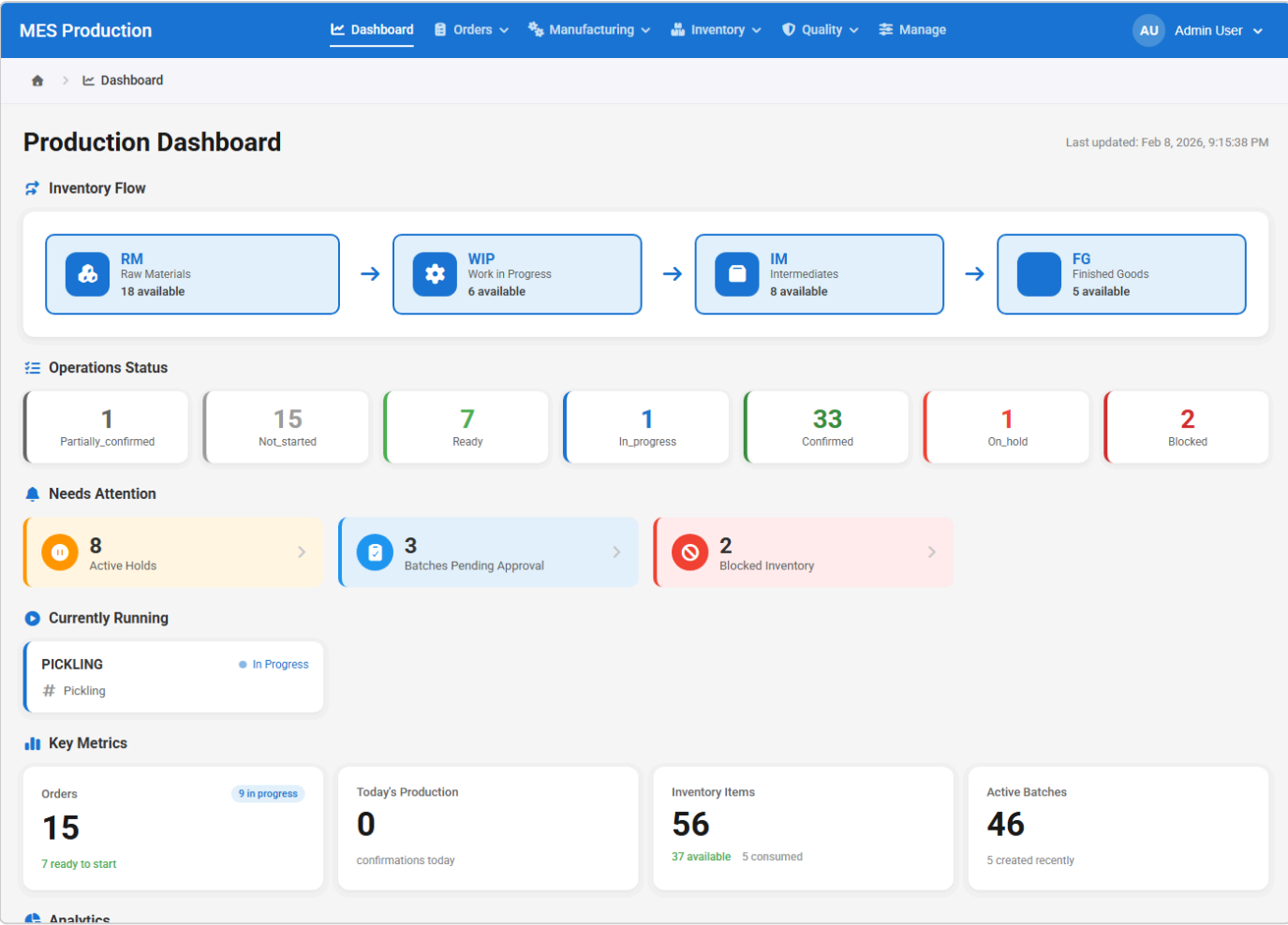
Overview: Operation-Level Confirmation

Production confirmation operates at the **Operation level**, not the Order or Line Item level.

```
Order (ORD-2026-001)
├── LineItem 1: HR-COIL-2MM (150T)
│   ├── Op 1: Scrap Charging → Confirmation #1
│   ├── Op 2: Melting       → Confirmation #2
│   ├── Op 3: Casting       → Confirmation #3
│   └── Op 4: Hot Rolling   → Confirmation #4
└── LineItem 2: HR-COIL-3MM (50T)
    └── Operations 1-4      → Confirmations #5-8
```

Screen 1: Dashboard - Operations Status

Route: /#/dashboard



Shows: Inventory Flow (RM→WIP→IM→FG), Operations Status counts, Needs Attention alerts.

Screen 2: Orders List

Route: /#/orders

MES Production

Dashboard

Orders

Manufacturing

Inventory

Quality

Manage

AUAdmin User

Orders

Production Orders

+ New Order

Search orders...

Status: All

Order Number	Customer	Product	Quantity	Status	Order Date	Actions
ORD-2026-015	Nordic Steel Trading AB	Steel Billet 100mm	250	BLOCKED	Feb 5, 2026	<button>View</button> <button>Edit</button>
ORD-2026-014	Pacific Metal Works	Cold Rolled Sheet 1mm	90	CANCELLED	Feb 4, 2026	<button>View</button> <button>Edit</button>
ORD-2026-013	Global Manufacturing Ltd	Hot Rolled Coil 4mm	180	COMPLETED	Feb 3, 2026	<button>View</button> <button>Edit</button>
ORD-2026-012	ABC Steel Corporation	Reinforcement Bar 12mm	180	COMPLETED	Feb 2, 2026	<button>View</button> <button>Edit</button>
ORD-2026-011	Oceanic Metals Ltd	Cold Rolled Sheet 2mm	260	IN PROGRESS	Feb 1, 2026	<button>View</button> <button>Edit</button>
ORD-2026-010	African Mining Corp	Steel Billet 100mm	600	CREATED	Jan 31, 2026	<button>View</button> <button>Edit</button>
ORD-2026-009	South American Steel SA	Hot Rolled Coil 3mm	350	CREATED	Jan 30, 2026	<button>View</button> <button>Edit</button>
ORD-2026-008	Asian Electronics Inc	Hot Rolled Coil 2mm	60	ON HOLD	Jan 28, 2026	<button>View</button> <button>Edit</button>
ORD-2026-007	Middle East Metals FZE	Cold Rolled Sheet 1mm	120	CREATED	Jan 25, 2026	<button>View</button> <button>Edit</button>
ORD-2026-006	Nordic Steel Trading AB	Reinforcement Bar 10mm	450	CREATED	Jan 22, 2026	<button>View</button> <button>Edit</button>
ORD-2026-005	European Auto Parts GmbH	Hot Rolled Coil 2mm	75	COMPLETED	Jan 20, 2026	<button>View</button> <button>Edit</button>
ORD-2026-004	Pacific Metal Works	Hot Rolled Coil 2mm	230	CREATED	Jan 18, 2026	<button>View</button> <button>Edit</button>
ORD-2026-003	BuildRight Construction	Reinforcement Bar 10mm	300	IN PROGRESS	Jan 15, 2026	<button>View</button> <button>Edit</button>
ORD-2026-002	Global Manufacturing Ltd	Cold Rolled Sheet 1mm	120	IN PROGRESS	Jan 12, 2026	<button>View</button> <button>Edit</button>

Status	Description	Can Confirm?
CREATED	New order	No
IN PROGRESS	Active production	Yes (READY ops)
COMPLETED	All done	No
ON HOLD / BLOCKED	Blocked	No

Screen 3: Order Detail with Line Items

Route: /#/orders/{orderId}

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Orders

Order #1

Back to Orders

Edit Order

Order: ORD-2026-001

IN PROGRESS

Customer: ABC Steel Corporation

Order Date: Jan 10, 2026

Process Flow

Hot Rolled Coil 2mm

SKU: HR-COIL-2MM

150 T

Delivery: Feb 15, 2026

Hot Rolled Coil 3mm

SKU: HR-COIL-3MM

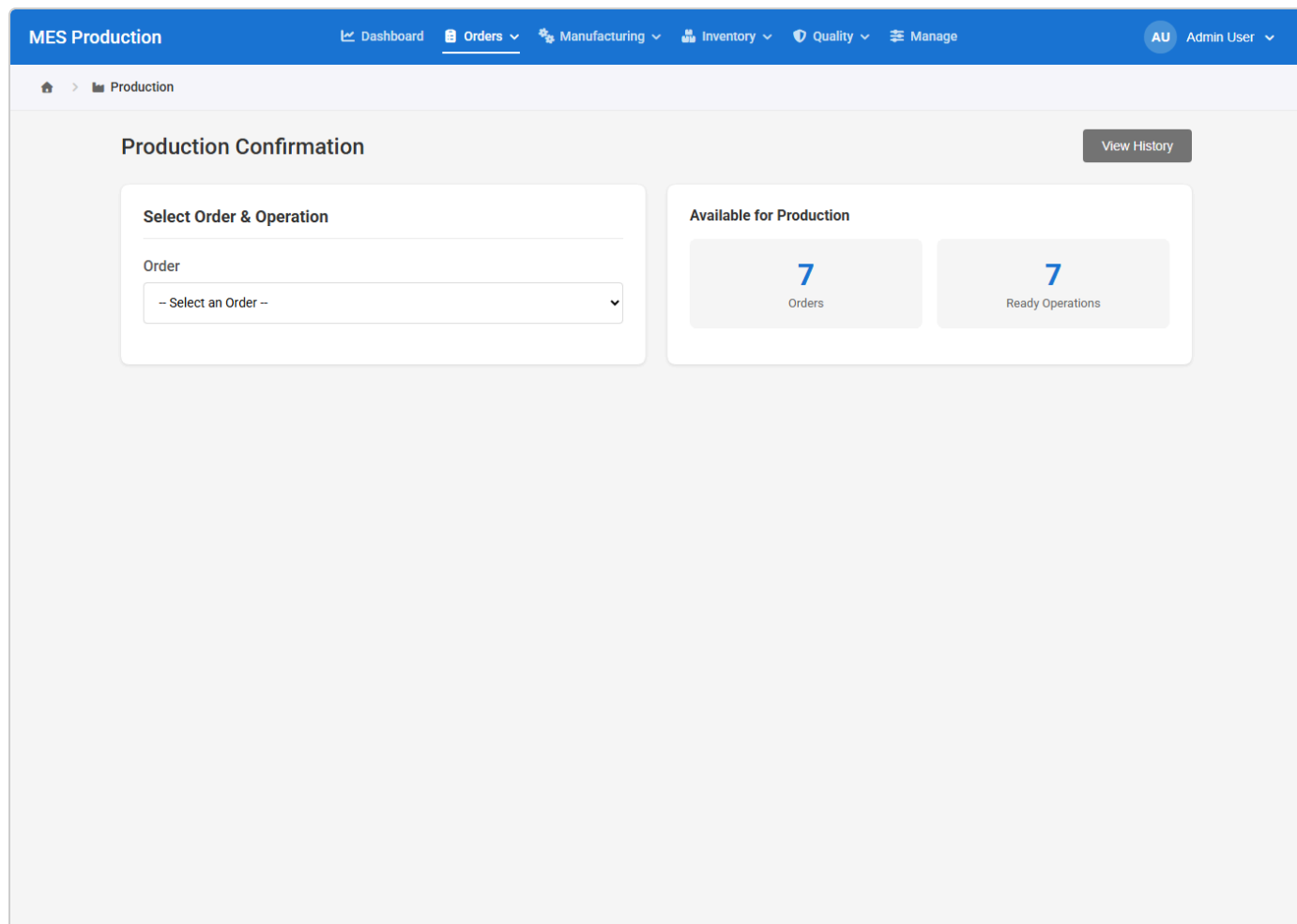
50 T

Delivery: Feb 20, 2026

Shows: Order header, Line items with products/quantities, Process flow for each line item.

Screen 4: Production Confirmation Landing

Route: /#/production



Select Order & Operation dropdowns. Shows: 7 Orders available, 7 Ready Operations.

Screen 5: Production Confirmation Form

Route: /#/production/confirm/{operationId}

MES Production

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AU

Admin User

Production

Confirm

Back to Order

Production Confirmation

Apply Hold

Operation Details

OPERATION

Scrap Charging (MELT-CHRG)

TYPE

FURNACE

STATUS

CONFIRMED

PRODUCT

Hot Rolled Coil 2mm (HR-COIL-2MM)

ORDER QUANTITY

150

STAGE

Hot Rolled Coil Production

Production Time

Start Time *

08-02-2026 21:17

End Time *

08-02-2026 21:17

End time must be after start time

Production Quantities

Quantity Produced *

150

Quantity Scrapped

0

Total Production: 150

Yield: 100%

Good (>=95%)

Warning (80-95%)

Critical (<80%)

Material Consumption

Select Materials

BOM Suggested Consumption

Target Quantity: 150 T Total Required: 147 T

Apply Suggestions

Form Sections:

- **Operation Details:** Name, Type, Product, Order Quantity, Stage
- **Production Time:** Start/End time with validation
- **Production Quantities:** Produced, Scrapped, Yield indicator
- **Material Consumption:** Select materials, BOM suggestions
- **Equipment & Operator:** Filtered dropdowns
- **Process Parameters:** Dynamic fields (Temperature, Power, Speed)
- **Delay Tracking:** Reason, duration, comments
- **Output Batch:** Auto-generated batch number

Yield Indicator: ● ≥95% Good | ● 80-95% Warning | ● <80% Critical

Screen 6: Batches List

Route: /#/batches

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Batches

Batch Traceability

State:All States

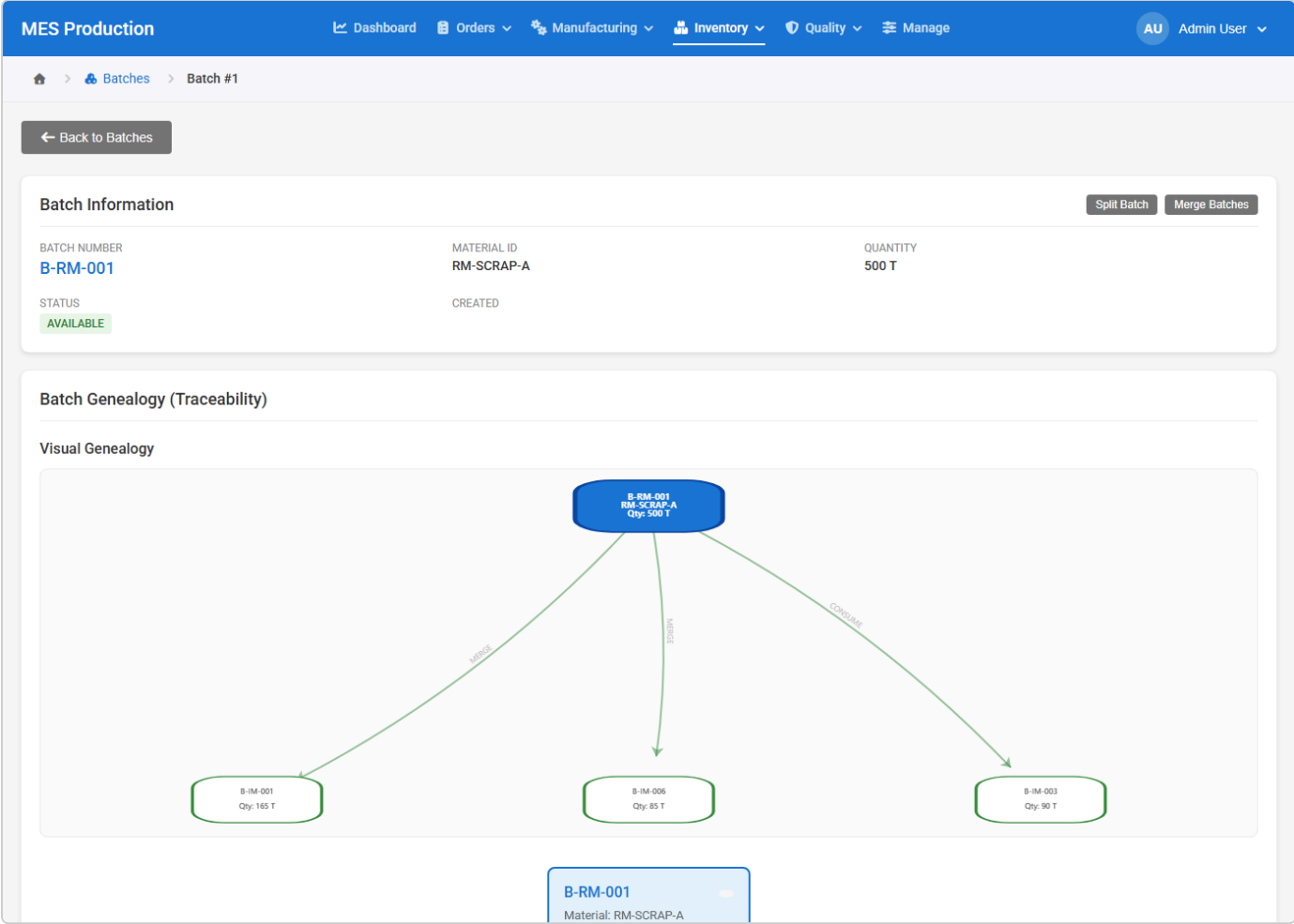
Search:Search by batch number or material

Batch Number	Material ID	Quantity	UoM	State	Created	Actions
B-IM-011	IM-PICKLED	85	T	AVAILABLE		<div>ViewEditDelete</div>
B-IM-012	IM-CR-STRIP	80	T	PRODUCED		<div>ViewApproveRejectEditDelete</div>
B-IM-013	IM-ANNEALED	75	T	AVAILABLE		<div>ViewEditDelete</div>
B-IM-014	IM-ROLLED-BAR	190	T	AVAILABLE		<div>ViewEditDelete</div>
B-IM-015	IM-LIQUID	130	T	PRODUCED		<div>ViewApproveRejectEditDelete</div>
B-IM-016	IM-SLAB	125	T	PRODUCED		<div>ViewApproveRejectEditDelete</div>
B-FG-001	FG-HR-2MM	75	T	AVAILABLE		<div>ViewEditDelete</div>
B-FG-002	FG-CR-1MM	70	T	AVAILABLE		<div>ViewEditDelete</div>
B-FG-003	FG-REBAR-10	180	T	AVAILABLE		<div>ViewEditDelete</div>
B-FG-004	FG-HR-2MM	120	T	AVAILABLE		<div>ViewEditDelete</div>
B-FG-005	FG-REBAR-10	175	T	PRODUCED		<div>ViewApproveRejectEditDelete</div>
B-IM-018	IM-BILLET	60	T	QUALITY PENDING		<div>ViewApproveRejectEditDelete</div>
B-RM-019	RM-SCRAP-A	100	T	BLOCKED		<div>ViewEditDelete</div>
B-IM-017	IM-SLAB	45	T	BLOCKED		<div>ViewEditDelete</div>

Columns: Batch Number, Material ID, Quantity, State (AVAILABLE/PRODUCED/CONSUMED/QUALITY_PENDING), Actions.

Screen 7: Batch Genealogy (Traceability)

Route: /#/batches/{batchId}



Visual genealogy tree showing parent-child batch relationships.



Relationship types: CONSUME, MERGE, SPLIT

Screen 8: Production History

Route: /#/production/history

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AU

Admin User

Production

History

Production History

Status: All Statuses

Search: Search by operation, batch, notes...

35TOTAL

35CONFIRMED

0PENDING REVIEW

0REJECTED

ID	Operation	Output Batch	Produced Qty	Scrap Qty	Duration	Status	Created
35	Pickling	-	90	2	3h 0m	CONFIRMED	-
34	Scrap Charging	-	125	5	4h 0m	CONFIRMED	-
33	Scrap Charging	-	85	2	4h 0m	CONFIRMED	-
32	Cooling & Coiling	-	118	0	1h 30m	CONFIRMED	-
31	Finish Rolling	-	118	2	2h 30m	CONFIRMED	-
30	Rough Rolling	-	120	2	2h 30m	CONFIRMED	-
29	Slab Reheating	-	122	0	3h 0m	CONFIRMED	-
28	Slab Casting	-	122	3	8h 0m	CONFIRMED	-
27	Ladle Refining	-	125	2	3h 0m	CONFIRMED	-
26	EAF Melting	-	127	3	6h 30m	CONFIRMED	-
25	Scrap Charging	-	130	2	4h 0m	CONFIRMED	-
24	Quenching & Tempering	-	175	0	1h 30m	CONFIRMED	-

Summary: 35 Total | 35 Confirmed | 0 Pending Review | 0 Rejected

Columns: ID, Operation, Output Batch, Produced Qty, Scrap Qty, Duration, Status, Created

Status Flow Diagrams

Operation Status:
NOT_STARTED → READY → IN_PROGRESS → CONFIRMED
↓ ↓
ON_HOLD ↔ BLOCKED

Batch Status:
PRODUCED → QUALITY_PENDING → AVAILABLE → CONSUMED
→ BLOCKED → SCRAPPED

Key Points

- Granular:** Each operation confirmed individually
- Sequential:** Operations follow routing sequence
- Traceable:** Every confirmation creates batch genealogy
- Quality Gates:** Batches can require QC approval
- BOM Integration:** Suggested consumption from Bill of Materials
- Yield Tracking:** Visual efficiency indicator

7. **Audit Trail:** Full logging of all confirmations