

ERMAN[®]

ENSURES EFFICIENCY IN PLANT CONSTRUCTION

SPOOLMAN[®] / ERMAN[®] is a piping spool, material & construction management software at shop / site useful for effective matching front analysis, work allocation, material allocation, piping material control and tracking. It is valuable for efficient macro and micro level construction planning beginning from issuing materials, fabrication / erection of spools, inspection & testing, painting till generation of line history sheets & transportation of finished spools to laydown.

It is also ideal for activity based fabrication / erection, inspection, installation, testing, pre-commissioning, report checklist generation, along with monitoring of projects, status review, priority updating and revision management.





Project Management, Drawing, Material Control & Planning, Production, Welding, NDT QA/QC

Spool Pressure Testing	Erection planning
Surface Preparation & Painting	Erection Construction
Laydown	Pipe Doubling (Direct to Erection)
Dispatch	Iso Erection Clearance

Loop Mechanical Clearance, Loop Pressure Testing, Loop Flushing, Loop Boxup

Review, Line History Sheet, Daily Progress Report, Material Reconciliation etc.

SPOOLMAN[®] / ERMAN[®] Features:

MATERIAL CONTROL & PLANNING

Construction release

Program aids in pre-defining various unique phases a specific spool / line has to undergo in the fabrication / erection cycle based on the requirement of project NDT plan, Material specification, Fluid Code / Service, Paint specification, AG / UG category etc.

Material Control

Program controls material in every stage by Checking the Material availability to fabricate / erect the spool / line, assigning spool / lines based on work load pending with the sub-contractor, allocating & issuing material to the sub-contractor based on the assigned spools / lines, handing over drawings for fabrication / erection after ensuring material is ready with sub-contractors for fabrication / erection.

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Program helps the Planning Engineer in analyzing the Work front availability & assigning spools / lines to the sub-contractor based on the sub-contractor's scope of work (like units / area / AG/UG piping, fabrication / erection, service etc) in the project & current work load available. The Work assigned to sub-contractors are documented with proper transmittal number & inch dia allocated against the same.

Front release

Front release ensures materials & corresponding drawings are released to the sub-contractors with recorded documents like transmittals / vouchers & hence the released front can be fabricated / erected fully as planned.

WELDING MANAGEMENT

Material Control

Welding is the major activity of fabrication / erection. Against each welded joint, SPOOLMAN[®] / ERMAN[®] efficiently maintains the information of WPS number, Welding Process, welder number, welding completion date, welding inspection date, Weld visual report & date, welding preheating report & date, welding post heating report & date, Weld PMI report & date. The Program also ensures whether right WPS is used in welding a weld of particular specification & whether appropriate welder is used against a specific WPS, welding process.



NDT- QA/QC -

NDT

Program takes care of Lot wise NDT clearance by grouping spools with same %NDT inspection. Welder wise representative welds from the lot are offered for inspection to meet the percentage coverage which are documented & managed efficiently as a justification for Quality acceptance. Line wise / welder wise NDT offering of representative field welds ensures the percentage coverage of the line.

LAYDOWN & DISPATCH

Laydown

Transportation to Laydown area, storage of fabricated spools are controlled by the program by managing information of Laydown location, storage Grid number, truck number, Gate pass number, transportation voucher, GRN (Goods Receipt Note) etc.

Dispatch

Program aids in timely dispatch of finished spools to erection site by instantly retrieving Grid location of stored spools as per the site request. Vehicle number & site / complex / unit location of dispatched spools are recorded through transmittals reference as document proof.

ERECTION

Iso Erection Clearance

Program interactively updates the erection status of the line by monitoring the various line erection subactivities like spool erection, valve erection, support erection, NDT clearance of field welds, Flange Alignment checks etc.

Loop Mechanical Clearance / Pressure testing

Project moves on basis of priorities. Program enables one to plan / check before hand the availability & status of spools / line erection. Constraints list to complete the Loop mechanical clearance is generated by the program which can be used as ready reference for further follow up & necessary actions.

Loop Flushing / Boxup

Program guides the user in clearing flushing / boxup with user-defined check points & interactively monitoring the same. Program summarizes pending punch points & enables killing of punch points generated at different stages of erection by various disciplines like Construction / Operations / Quality / Maintenance / Painting etc.

Project Dossier / Closure

Program extracts all necessary reports for final dossier preparation & submission to client. Program's activity wise data storage in phase wise orderly manner helps in achieving the desired objective with documented proof.

Revision Management

SPOOLMAN[®] / ERMAN[®] Revision Management module takes care of every revision in line or spool, compares the same with the old revision progress stage wise (MIV, FU, WV, QA / QC) and acts depending on the comparison results of the old revision with the new revision, which would be Match, Modify, New, Delete. Multiple revisions can be effectively handled with respect to Materials, welds, fit up, welding, NDT, PWHT, Spool Pressure Test, Painting, Laydown, Dispatch etc.

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1	801	AL-55-1409-13 ZONE K	AV-55-1409-13 ZONE K	58:3	ELH40045.8	ELBOW 45, 8-16-9, ASTM A 234 GR WPB, BW, 1.5D, 4:0 INCH, STD	ELBOW	4	EA	1	EL8400458	I	л	0	1	-	STORE I
· 1 ·	- R01	AI-55-1409-13 ZONE K	A1-55-1409-13_ZONE_K	\$P-3: 5P-2; 5P-3	PIPEADOWX.	PIPE 5-1739-1, IS-1239 (BLACK), BE C.WELDED, 4.0 INCH. HVY	FIPE	- 9	MTR	25.964	PIPE400WX	25.964	D	0	25.964		STORE 1
- 3-	RD1	AI-55-1409-13 ZONE K	AL-55-1409-13 ZONE K	SP-3, SP-2	ELB40090X	ELBOW 90: 8-16-9, ASTM A 234 GR.WP6, BW, 1.5D, 4.0 INCH, STD	ELBOW	d	EA	2	ELB40090X	2	0	Ű.	2		STORE 1
4	801	AI-55-1410-01 20NE K	AI-55 1410-01 ZONE K	SP-1, SP-2, SP-3, SP-4, SP-5, SP-6, SP-7	PUPEEDOWX	PIPE, G-1139-I, IS-1239 (BLACK), BE, C.WELDED, G.O.INCH, HVY	FIPE	6	MTR	52.504	PIPEGOOWX	52.504	- 0	ä	52.504		STORE 1
5	801	A1-55-1410-01 ZONE E	A4-95-1418-01 2014E &	5P-1, 5P-2, 5P-4, 5P-6, 5P-7	ELBEOD90X	ELBOW 90, B-16 9, ASTM A 234 GR WPB, BW, 1-50, 6.0 INCH; STD	ELEDW	6	EA.	Ð-	ELBECIOSOX	e	0	þ.	6.		STORE 1
18	801	AI-55-1413-02 ZONE 0	AL55-1413-07_20WE_D	SP-1. 5P-2. SP-3	PUPEGOIWX	PIPE, 15-1238 I, 15-1239 (BLACK), BE, C.WELDED, 5.0 INCH, HVY	FIPE	6.	MER	28.765	FIPE600WX	28.765	0.	0	28.765		STORE I
. 7	801	A1-55-1413-02_ZONE_D	AI-55-1433-02_ZDNE_D	5P-3	ELBGODSON	ELBOW 90, 8-16 9, ASTM A 234 GR WPB, BW; 1:50, 6.0 INCH, STD	TITTING	- fi	EA	2	ELB60090X	2	- 10	0	- 2		STORE 1
8	901	AJ-55-1438-11 ZONE K	ALSS-1438-11 ZONE K	SP-1, SP-2, SP-5, SP-6, SP-7	ELB30090X	ELBOW 30, 8-16-9, ASTM A 234 GR.WPB, 6W, 1-5D, 3-0 INCH, 5TD	ELBOW	3	EA	5	ELB30090X	5		0	- 5		STORE 1
3	801	AH55-1438-11 ZONE K	A/-55 1438-11 ZONE K	5#-1, 5P-2, 5P-3, SP-4, SP-5, 5P-6, SP-7	FIREBOOWX	PIPE, (3-1139-1, IS-1239 (BLACK), BE, C. WELDED, 3.0 INCH, HVV	PIPE	9	MIR	63.521	PEPE300WX	63.321	- 11	0	53.321		STORE 1
10	R01	AI-55-1438-15_ZONE_K	AI-55-1438-15 ZONE K	SP 1, SP 2, SP-4, SP-5	FLB30090R	ELBOW 90, B-16-9, ASTM A 234 GR WPB, BW, 1-5D, 3-D INDH, 5TD	ELBOW	3	ΞÅ.	4	EL830090X	a	0	D.	· . 4. · ·		STORE L
11	801	AI-55-1438-15 ZONE K.	AI-55-1438-15_ZONE_K	5P-1: 3P-2, 5P-3, 5P-4, 5P-5	PEPEBODWX	PIPE, 15-1239-1, 15-1239 (BLACK), BE, C.WELDED, 3.0 INCH, HVV	FIPE	3	MTR	32.402	PIPEBOOWX	37.402	D	0	32.402		STORE 1
12	RQ1	AI-55-1426-01 ZONE B	AI-55-1426-01 ZONE B	SP3 521	ELB30090N	ELBOW 90, 8-16.9, ASTM A 234 GR.WPB, BW, 2.50, 3 D INCH, STD	ELBOW	3	EA	2	ELB30090X	2	-19	0	- 2		STORE 1
- 19	801	AI-55-1426-01 ZONE B	AI-55-1426-01 ZONE B	SP3, SP2, SP1	PIPE300WX	PIPE, 5-1239 J, IS 1239 (BLACK), BE, C.WELDED, 3.D INCH. HWV	PIPE	3	MTB	24.942	PIPE300WX	25.942	. 0	0	24.982		STORE 1
14	RD1	AI-55-1421-01 ZONE A	AI-55-1421-01 ZONE A	58-2 39-2	ELB30050X	ELBOW 90, B-16.9, A5TM A 294 GR WPB, BW, 1.50, 3.0 INCH, STD	FITTING	3	€A/	1	ELB30090X	2	-0	0	. Z		STORE 1
15	R01	AI-55-1471-01_ZONE_A	AI-55-1471-01 ZONE A	SP-2, 5P-1	PEPEBORINEX	PIPE 51239-1, 151239 (BLACK), BE C.WELDED, 3.0 INCH, HVY	PIPE	3	MTR	14,767	PIPEBODWX	14.767	0	0	14,767		STORE L
16	R01	AI-55-1425-01_ZONE_B	AI-55-1425-01 ZONE 8	SP-1, SP-1	ELB30090X	ELBOW 90, B-16-9, ASTM A 234 GR. WP8, BW; LSD, 3-0 INCH, STD	FITTING	3	EA	2	EL830090X	2	- D	0	2		STORE 1
17	R01	AI-55-1425-01 ZONE B	NE55-1425-01_ZONE_B	SP-1_5P-2; SP-3	PIPEBODWX:	PIPE, 5-1299-I, IS-1239 (BLACK), BE, C.WELDED, 3.0 INCH. HVY	FIPE	3	MTR	26.267	PIPEBOOWX	26,267	-11	0	26.267		STORE 1
18	801	AU-55-1427-01 ZONE B	ALSS-1427-01 ZONE B	SP-1, SP-2	ELBIODIOX	ELBOW 90, 8-16-9, ASTM A 234 68. WPB, BW, 1-50, 3.0 INCH, STD	FITTING	3	ĒÁ	2	ELB30090X	2	. 0	0	2		STORE 1
19	RD1	AI-55-1427-01_ZONE_B	AI-55-1427-01 /ONE 8	5H 1, 5P-2	PIPEBOOWX	PIPE, IS-1139-I, IS-1239 (BLACK), BE, C.WELDED, 3.0 INCH. HVV	FIFE	8	MTR	18.941	FIPE300WX	18.943	- 11	0	18.942		STORE 1
70	801	AI-55-1428-01_ZONE_8	AI-55-1478-01_ZONE_B	SP-1, 57-3	FL8300902	ELBOW 90 8-16 9, ASTM A 234 GR WPB, BW, 1 50, 3 0 INCH, 5TD	FITTING	3	EA	2	ELB30090X	1	0	0	2		STORE L
21	R01	AI-55-1428-01 ZONE B	AI-55-1428-01_ZONE 8	SPI-1.5P-2.5P-3	INPE300W8	PIPE 5-1239-LIS-1239 (BLACK) BE CIWELDED 3.0 INCH, HWY	EVPE .	3	MTR	24.947	PIPEBOOWX	24.942	п	0	24.947		STORE I
12	401	AU-55-1438-12 ZONE K	AL-55-1438-12 ZONE K	SP-1, 5P-2, SP-1, 5P-4, 5P-5, SP-6, 5P-7	PEPEBOOWX.	PIPE, 5-1239-1, 15-1239 (BLACK), BE, C.WELDED, 3.0 INCH, HVY	FIPE	3	MIR	80.962	PIPE3Q8WX	80.962	IJ	0	80.962		STORE
23	801	AU-55-1488-13 ZONE K	ALSS 1438 13 ZONE 8	SP 1, SP 2, SP 3, SP 4, SP 5, SP 6, SP 7	PIPE300WX	PIPE 15 (239-), (\$2239 (BLACH), BE C.WELDED, 3.D INCH, HVV-	PIPE	3	MIR	80,001	PEPEBORWS	80.001	. Ú	0	80.00T		STORE 1
34:	R01	AI-55-1438-14_ZONE_K	A/-55-1438 34_ZONE_K	5P-1, 5P-7, 5P-3, 5P-4, 5P-5, 5P-5, 5P-7, 5P-5	PIPEBOOWX	PIPI, IS-2239-4, IS-1239 (BLACK), BE C.WELDED, 3.0 INCH. HVV	PIPE	3	MTR	105.524	PEPERGOOWN	105.574	n	0	105 524		STORE 1
	801	AI-55-1438-16_ZONE_K	AF55-1438-15_20NE_K	5P-1, 5P-2, SP-3, 5P-4, 5P-5, SP-6, 5P-7	PIPEBOOWX	PIPE, 5-1139-1, IS-1239 (BLACK), BE, C, WELDED, 3.0 INCH, HVY	PIPE	3	MIR	80,462	PIPE300WX	80,462	0	0	80.462		STORE 1
26	900	AI-55-1431-01 ZONE 1	A-55-1431-01_20NE	58-1	PEPEZOOW/8	PIPE, 15-1239-1, 15-1239 (BLACK), BE, C.WELDED, 2.0 INCH, HVV	PIPE	2	MTR	1.827	PIPEZODWX	1.827	- D -	0	1.827		STORE 1
17	900	AJ 55-1433-01 ZONE	AI-55-1431-01 20NE 1	59-1	ELB20050X	ELBOW 90, 8-16-9, ASTM A 234 GR.WPB, BW, L'50, 2.0 INDH, STD	ELBOW.	2	EA	2	EL820090X	2	- U	0	7		STOKE 1

ItemCode	Description	ItemType	Size	NON	Total Req Qty	Issued ItemCode	Total IssuedQty	Self IssuedQty	Other IssuedQty	STORE 1 IssuedQty	Ledger Folio	Remarks
ELB40045X	ELBOW.45, B-16.9, ASTM A 234 GR.WPB, BW, 1.5D, 4.0 INCH, STD	ELBOW	4	EA	1	ELB40045X	1	0	0	1		STORE 1
PIPE400WX	PIPE, IS-1239-I, IS-1239 (BLACK), BE, C.WELDED, 4.0 INCH, HVY	PIPE	4	MTR	25.964	PIPE400WX	25.964	0	0	25.964		STORE 1
ELB40090X	ELBOW.90, B-16.9, ASTM A 234 GR.WPB, BW, 1.5D, 4.0 INCH, STD	ELBOW	4	EA	2	ELB40090X	2	0	0	2		STORE 1
PIPE600WX	PIPE, IS-1239-I, IS-1239 (BLACK), BE, C.WELDED, 6.0 INCH, HVY	PIPE	6	MTR	81.269	PIPE600WX	81.269	0	0	81.269		STORE 1
ELB60090X	ELBOW.90, B-16.9, ASTM A 234 GR.WPB, BW, 1.5D, 6.0 INCH, STD	ELBOW	6	EA	8	ELB60090X	8	0	0	8		STORE 1
ELB30090X	ELBOW.90, B-16.9, ASTM A 234 GR.WPB, BW, 1.5D, 3.0 INCH, STD	ELBOW	3	EA	19	ELB30090X	19	Ü	0	19		STORE 1
PIPE300WX	PIPE, IS-1239-I, IS-1239 (BLACK), BE, C.WELDED, 3.0 INCH, HVY	PIPE	3	MTR	552.532	PIPE300WX	552.532	0	0	552.532		STORE 1
PIPE200WX	PIPE, IS-1239-I, IS-1239 (BLACK), BE, C.WELDED, 2.0 INCH, HVY	PIPE	2	MTR	1.827	PIPE200WX	1,827	0	.0	1.827		STORE 1
ELB20090X	ELBOW.90, B-16.9, ASTM A 234 GR.WPB, BW, 1.5D, 2.0 INCH, STD	ELBOW	2	EA	2	ELB20090X	2	0	0	2	_	STORE 1

ERECTION

Quality Management plays a integral part in success of a project. SPOOLMAN[®] / ERMAN[®] aides in meticulous planning of dependent quality activities & stage wise documentation of each step in the QA / QC activity. Tracking, tracing & retrieval of quality data like quality reports, report number / date, quality parameters & attributes, observation, results & approvals is managed efficiently as a justification for Quality acceptance.

SPOOLMAN[®] / ERMAN[®] is an important aide in generating QA / QC test reports like:

- Fit-up inspection
- Weld visual inspection
- Radiography offering
- Radiography inspection / interpretation
- Ultrasonic inspection
- Dye penetration inspection
- Magnetic particle inspection
- PWHT inspection

- Hardness inspection
- Spool Pressure test
- Surface Preparation & painting inspection
- · Penalty joints offering
- Reinforcement pad pneumatic test
 inspection
- Positive material identification
- Line history sheet

Store

With this program, one can upload DMR (Daily Material Receipt) / MRN (Material Receipt Note) and Item codes according to material received at site. One can use this module for making the entry of all the material received at store, at site or at multiple site. This can be linked and the material information can also be imported either from excel or any other in-house software.

BAR CODE / QR CODE / RFID Consideration / integration:

Program utilizes BAR CODE / QR CODE / RFID system for tracking / monitoring the production status of automatic piping spool fabrication line considering each stage of every weld joint namely (Cutting, beveling, Fit-up, welding, PWHT & NDE).





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ADVANTAGES

Some of the numerous advantages of *SPOOLMAN*[®] / *ERMAN*[®] are:

- Optimum utilization of Piping material.
- Advance notification for the material requirements.
- Progress monitoring at every stage for planned scope vs. actual scope.
- Material traceability information in store with vendors etc.
- Acquiring information on each joint, line progress, erection status of each piping spool and component.
- Welder management including qualification, quality check and penalty clauses etc.
- Actual material allocation virtually and practical matching front availability analysis.
- Virtual planning of spool possibility and optimization of material allocation.
- Enables analysis of the Effectiveness / Non effectiveness of each joint.
- Creation of deliverables based on actual possibility.
- Automated & interactive issue and confirmation of material issue voucher.
- One point information for all the piping material and construction activities.

Training & customer support

We provide training & customer support on and off site for successful implementation of the software. This is to ensure seamless integration with clients work process.

Minimum recommended hardware & software

Machine I-3 / I-4 / I-5 or latest with 2 GB RAM. Operating System WIN XP PROFESSIONAL / VISTA / WIN 7 / WIN 8 or latest.



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