



Smart P&IDs

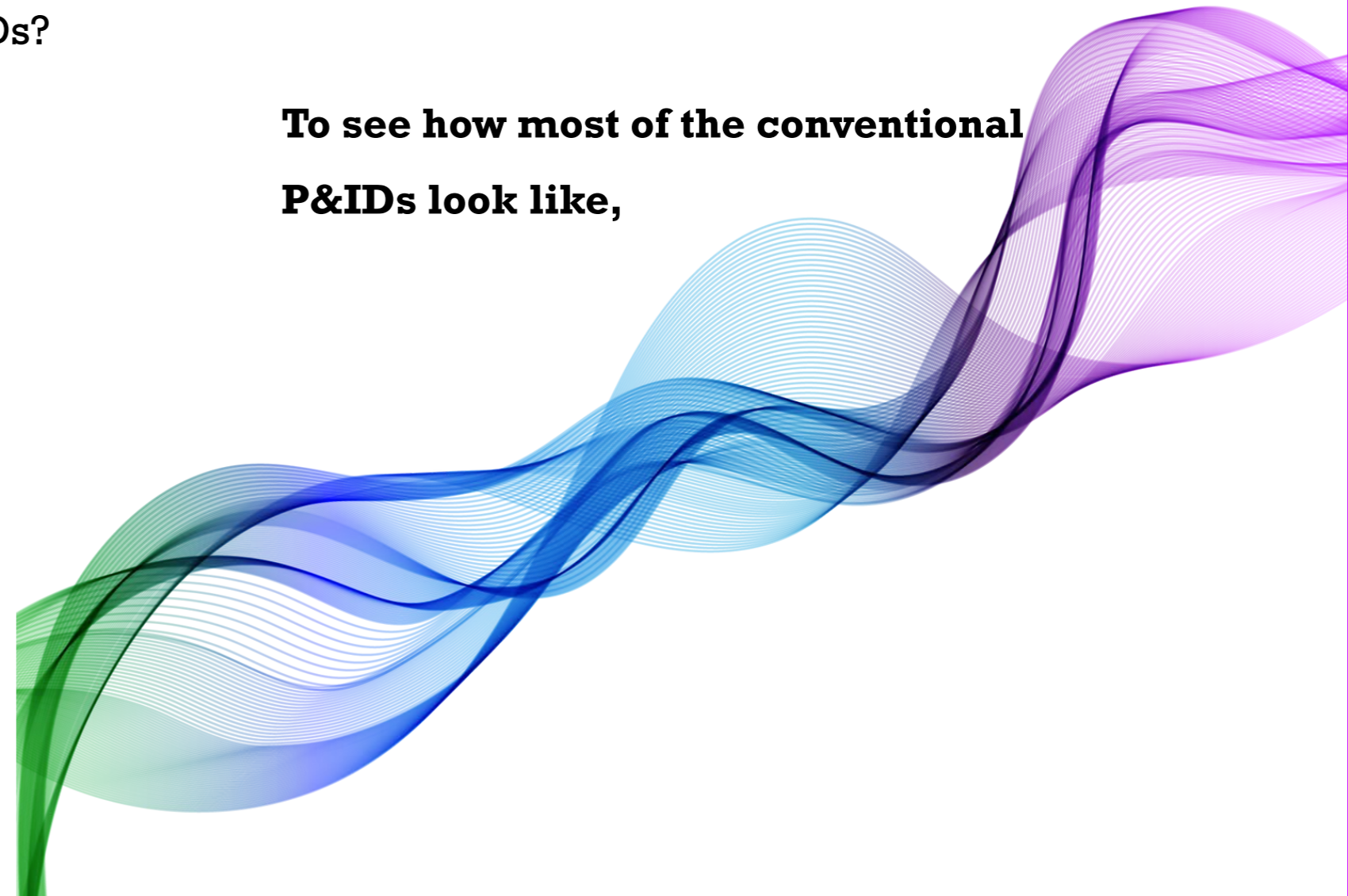
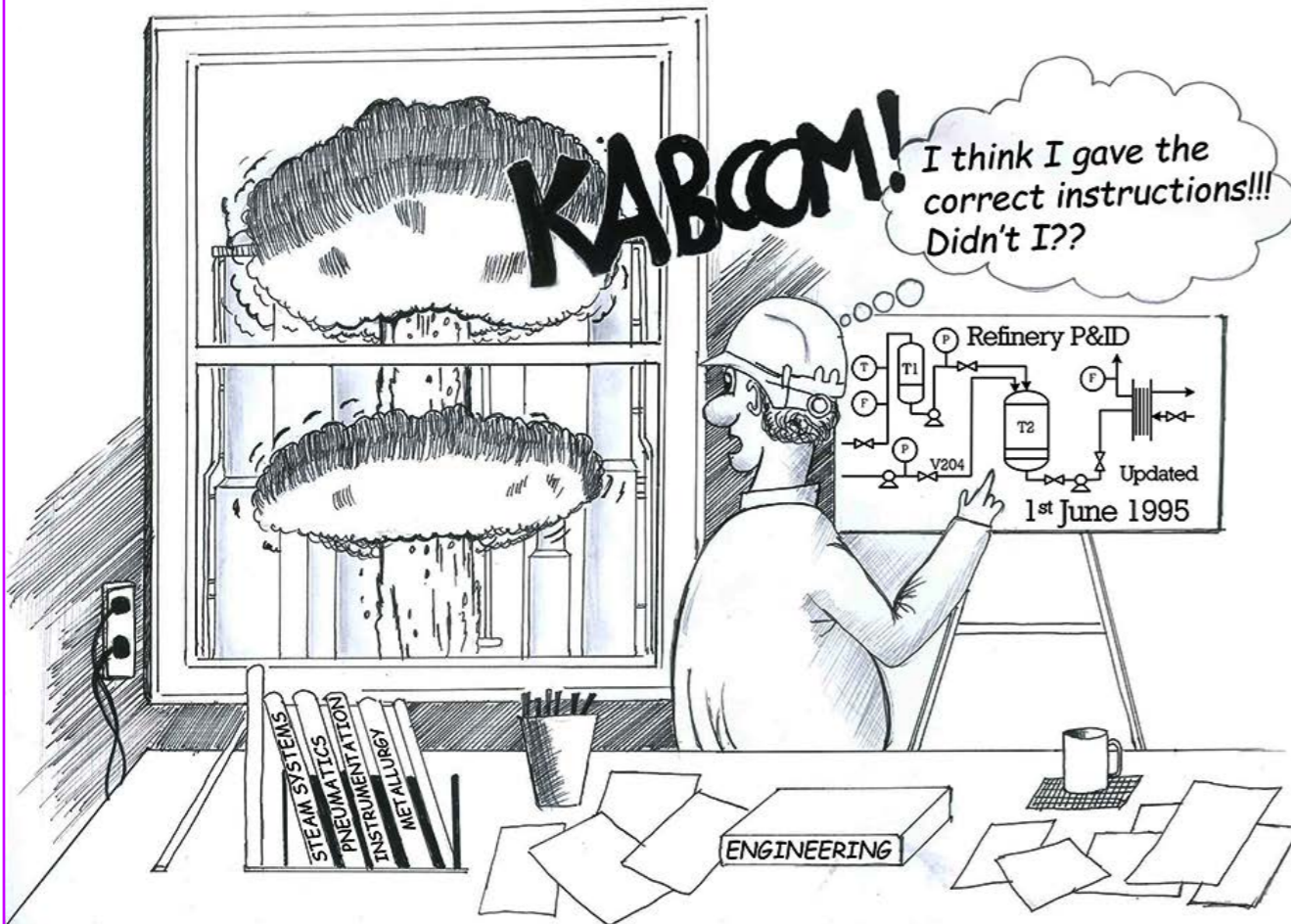
Revolutionizing Process Insights & Management

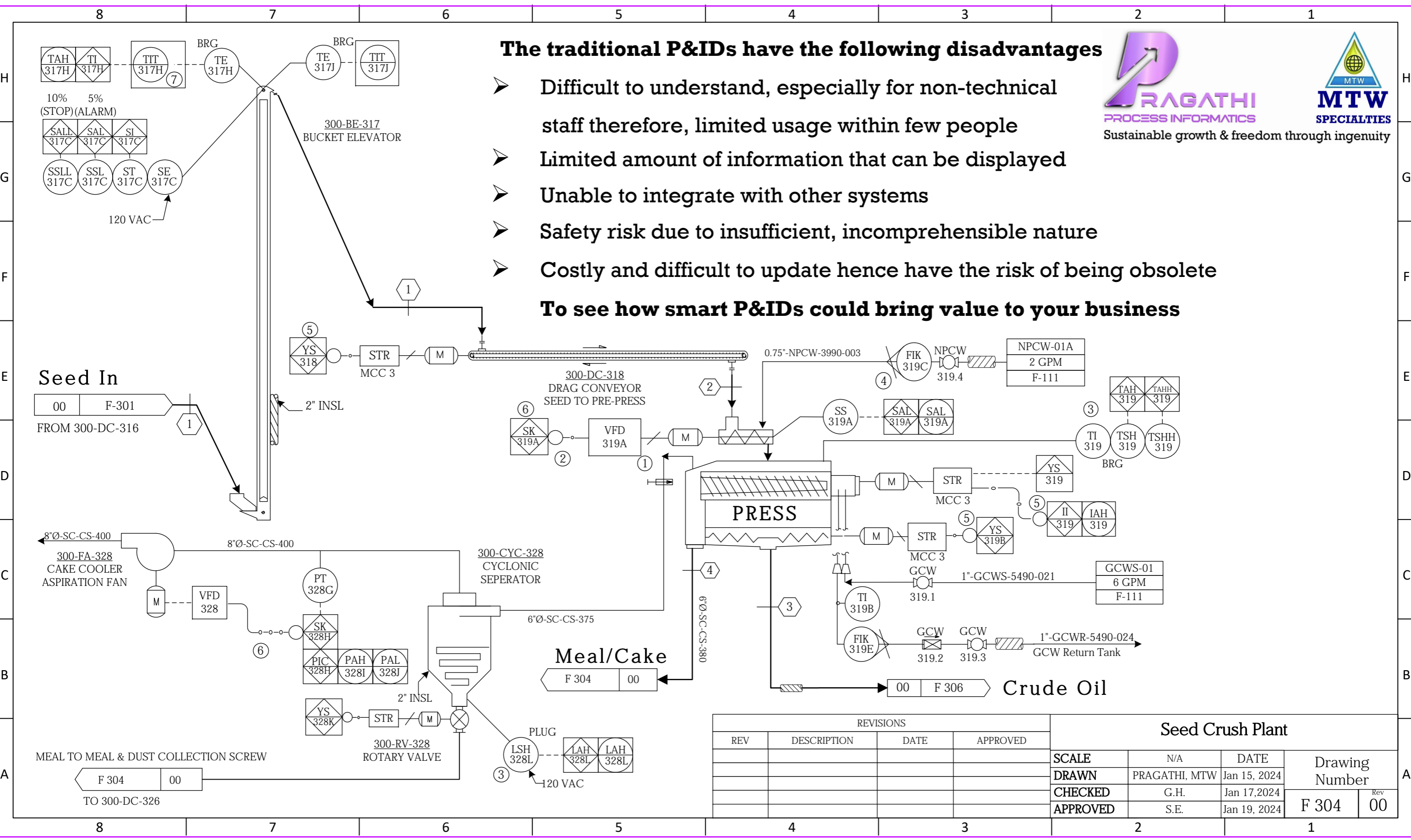
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Avoid viewing this document in your web browser.

What are your insights on the following queries about Piping & Instrumentation Diagrams (P&IDs):

- Do you know that P&IDs can bring a significant value to your business?
- Do your P&IDs bring enough value to your business?
- Do you know how convenient it is for your engineers to read your P&IDs?
- Do your operators and other team members read P&IDs?
- How reliable and accurate are your P&IDs?

To see how most of the conventional P&IDs look like,





The traditional P&IDs have the following disadvantages

- Difficult to understand, especially for non-technical staff therefore, limited usage within few people
- Limited amount of information that can be displayed
- Unable to integrate with other systems
- Safety risk due to insufficient, incomprehensible nature
- Costly and difficult to update hence have the risk of being obsolete

To see how smart P&IDs could bring value to your business



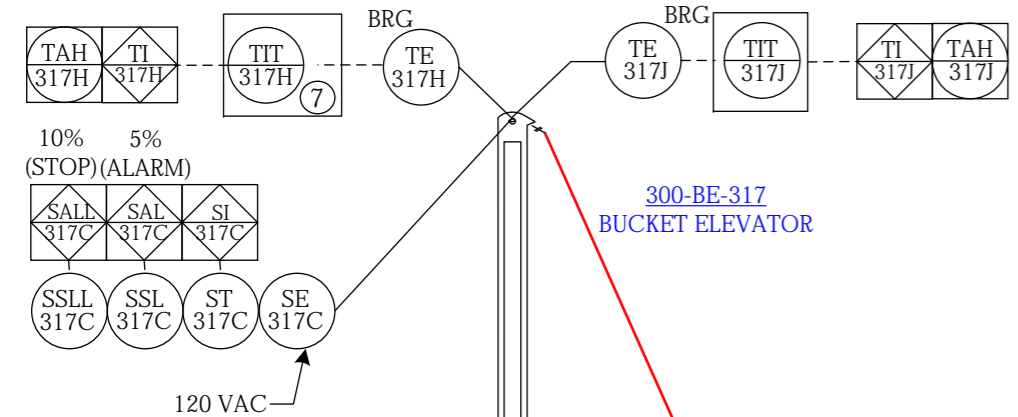
REVISIONS				Seed Crush Plant			
REV	DESCRIPTION	DATE	APPROVED	SCALE	N/A	DATE	Drawing Number
				DRAWN	PRAGATHI, MTW	Jan 15, 2024	F 304 00
				CHECKED	G.H.	Jan 17, 2024	
				APPROVED	S.E.	Jan 19, 2024	

How PRAGATHI Smart P&IDs could bring value to your business:

1. We frequently update your P&IDs and make them more reliable and accurate.
2. Using the following smart features, we make it possible to read the P&IDs, for anyone who needs.
 - Photos and 3D models displayed on demand
 - Interactive P&IDs, allows non-technical staff to access process information
3. Our smart P&IDs are convenient due to features such as the following and many more.
 - Ability to filter systems or object categories using layers
 - Seamlessly connected page links
4. You can extract equipment & processes data from your P&IDs' connected databases facilitate deeper insights.
5. Our Smart P&IDs can be available in free Adobe Acrobat PDF reader format with all interactive elements. This saves the cost of additional software.
6. Due to the above-mentioned points, your entire team will be engaged in continuous process improvement and troubleshooting with increased efficiency.
7. The Smart P&IDs paves a foundation for PRAGATHI advanced process improvement tools such as the following and many more to be implemented.
 - Virtual Process Plants (VPP)
 - AI Plant Supervisor

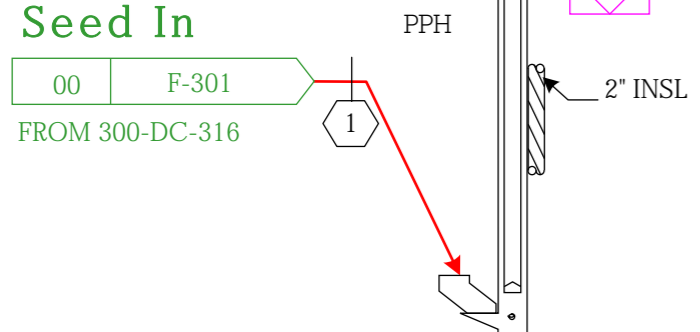
To see how a Smart P&ID look like





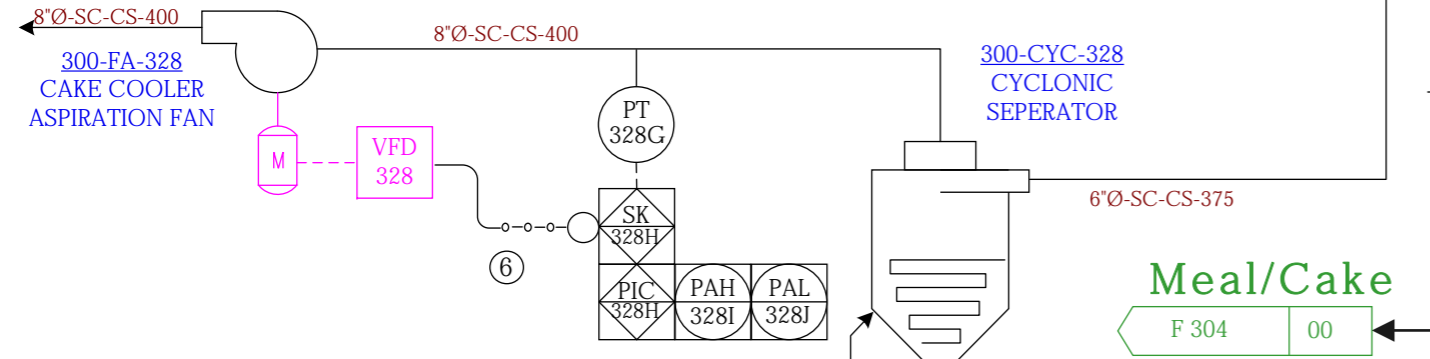
300-BE-317
BUCKET ELEVATOR

Seed In
00 F-301
FROM 300-DC-316



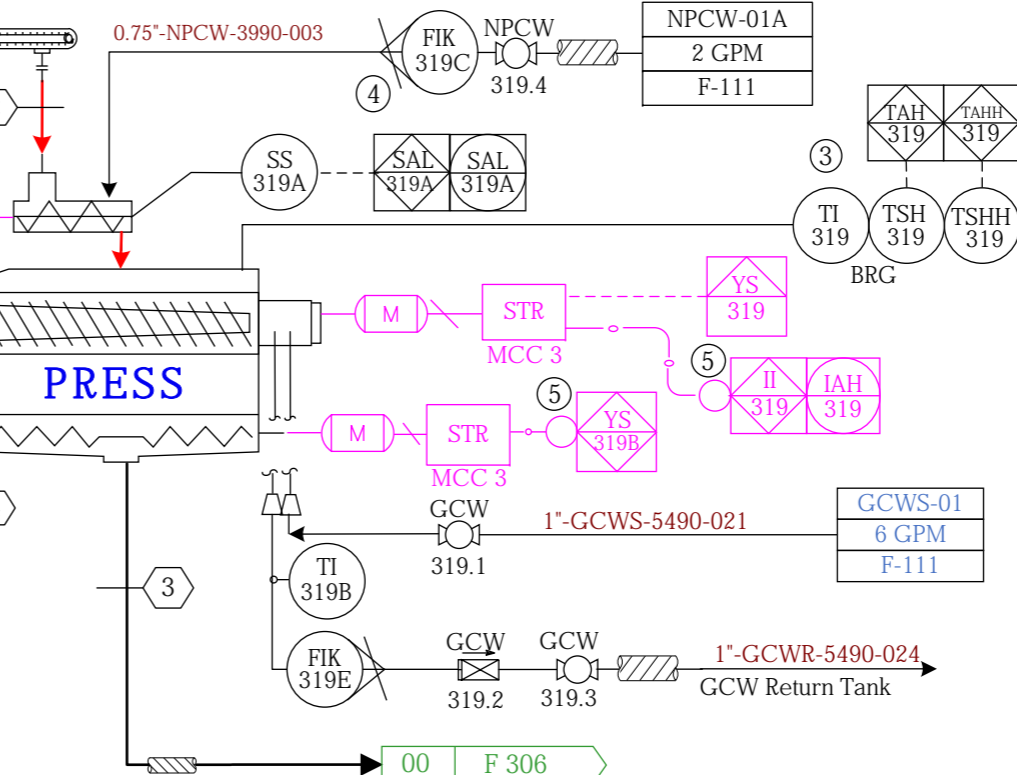
300-DC-318
DRAG CONVEYOR
SEED TO PRE-PRESS

300-FA-328
CAKE COOLER
ASPIRATION FAN



Meal/Cake
F 304 00

MEAL TO MEAL & DUST COLLECTION SCREW
F 304 00
TO 300-DC-326

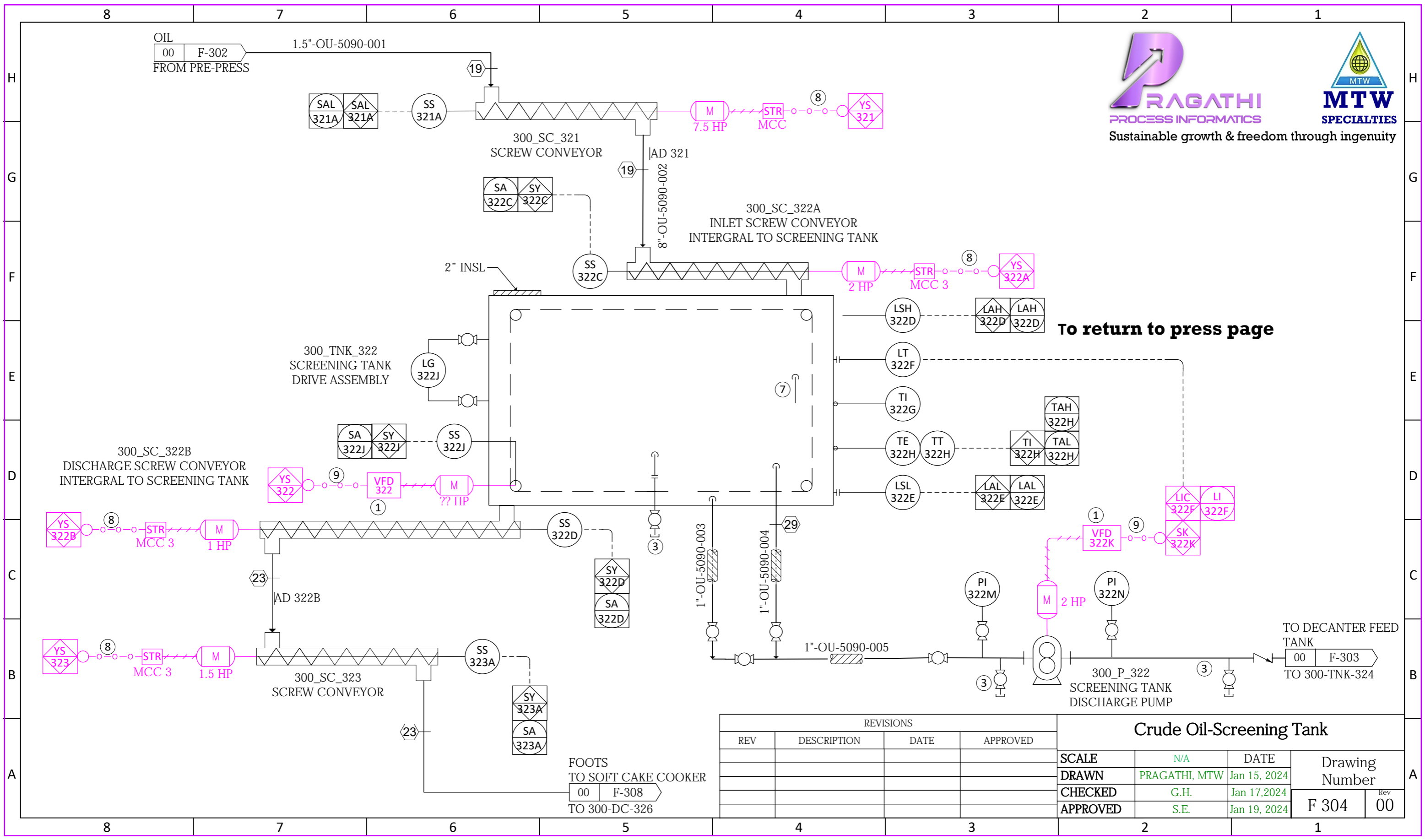


To see smart features

- General Notes
- Key Notes
- Interlocks
- Process Condition

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

Seed Crush Plant			
SCALE	N/A	DATE	Drawing Number
DRAWN	PRAGATHI, MTW	Jan 15, 2024	
CHECKED	G.H.	Jan 17, 2024	
APPROVED	S.E.	Jan 19, 2024	
			F 304
			Rev 00



To return to press page

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

Crude Oil-Screening Tank			
SCALE	DATE	Drawing Number	
N/A	Jan 15, 2024	F 304	00
DRAWN	Jan 17, 2024		
CHECKED	Jan 19, 2024	Rev	00
APPROVED			

2725/36123		806-01 Worm Assy - 2nd Press								
I.D. Code	Drawing Number	Inc Length (mm)	Boss Dia (mm)	Pitch (mm)	Flight Thickness (mm)	Gash Angle (degrees)	Keyway Angle (degrees)	Flight Start/Finish (mm)		
#	##	#	#	#	#	#	#	#	#	#
2725/35854		0.00	275.00							
Distance Piece		70.00	295.00							
		20.00	295.00							
2725/36124		0.00	280.00	180.00						
Worm		0.00	280.00	180.00	30.00	0.00	0.00	3.00		
		500.00	280.00	180.00				0.00		
2725/34924		0.00	280.00							
Distance Piece		120.00	290.00							
		0.00	290.00							
2725/34925		0.00	290.00	160.00						
Worm		0.00	290.00	160.00	30.00	0.00	40.00	5.80		
		200.00	310.00	160.00				5.80		
2725/34926		0.00	310.00							
Distance Piece		130.00	320.00							
		0.00	320.00							
2725/34927		0.00	320.00	140.00						
Worm		0.00	320.00	140.00	30.00	0.00	80.00	5.70		
		180.00	340.00	140.00				5.70		
2725/35525		0.00	340.00							
C Hump/Mixer		100.00	380.00							
Oil Seed		40.00	380.00							
		0.00	330.00							
		15.00	330.00							
		45.00	330.00		50.00					
2725/35638		0.00	330.00	120.00						
Worm		0.00	330.00	120.00	30.00	0.00	120.00	75.60		
		235.00	340.00	120.00				10.60		
2725/34930		0.00	340.00	120.00						
Worm		0.00	340.00	120.00	30.00	0.00	160.00	105.60		
		260.00	360.00	120.00				5.60		
2725/35526		0.00	360.00							
C Hump/Mixer		100.00	385.00							
Oil Seed		40.00	385.00							
		0.00	345.00							
		15.00	345.00							
		45.00	345.00		50.00					
2725/36154		0.00	345.00	120.00						
Worm		0.00	345.00	120.00	30.00	0.00	220.00	80.60		
		235.00	360.00	120.00				5.60		
2725/36155		0.00	360.00							
Hump		120.00	385.00							
		70.00	385.00							
2725/35641		0.00	350.00	120.00						
Worm		0.00	350.00	120.00	30.00	0.00	280.00	75.60		
		230.00	365.00	120.00				5.60		
2725/36156		0.00	365.00							

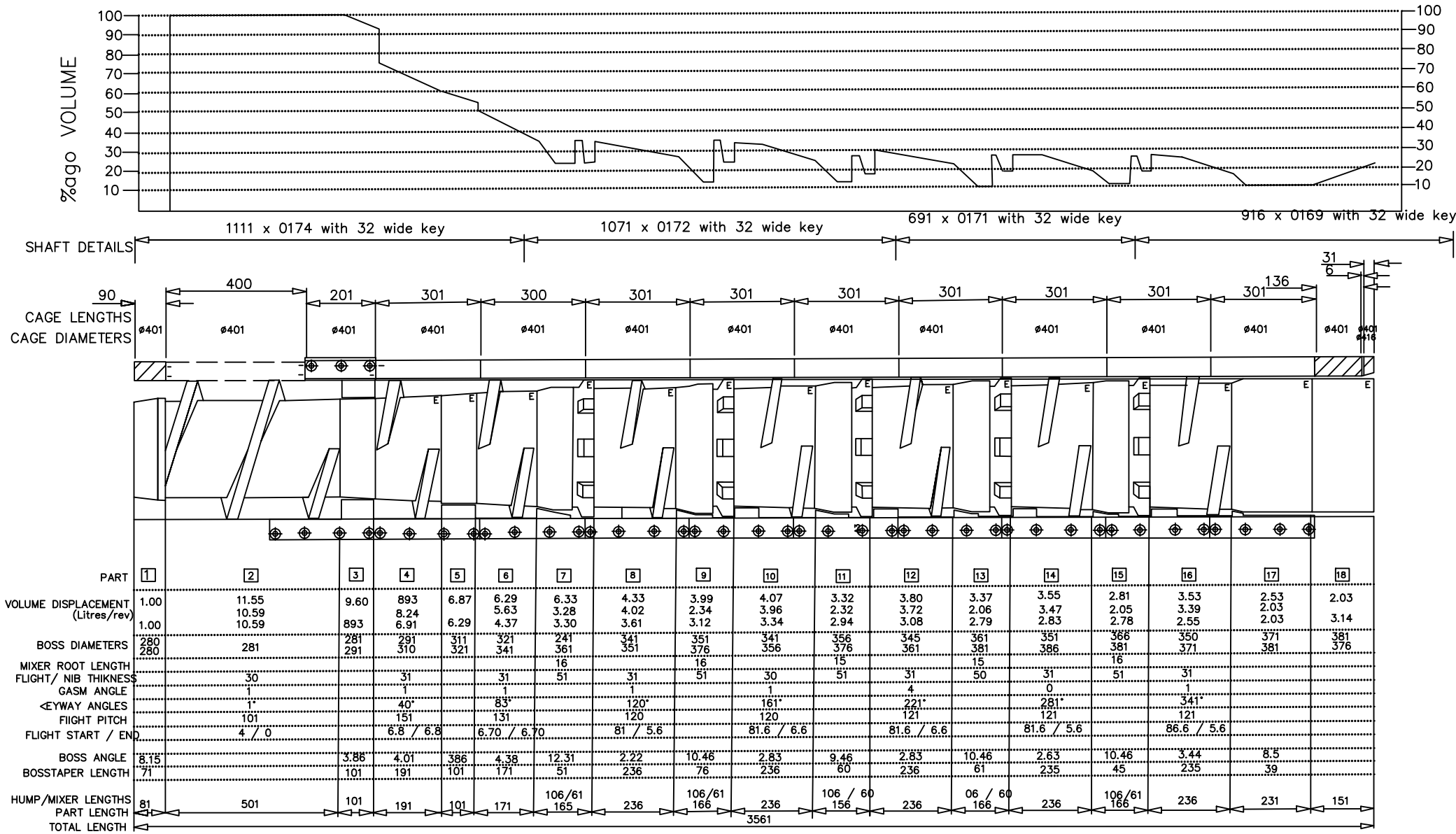
2nd Press Data



To return to Smart P&ID



Press Detailed Data



To return to Smart P&ID

PARTS LIST (FEED END FIRST)

1	2726 / 35855	UN HARDENED	-	16	2726 / 38478	GOLDSTAR	-
2	2726 / 36125	CASE HARDENED	-	17	2726 / 38479	GOLDSTAR	-
3	2726 / 36660	GOLDSTAR	-	18	2726 / 38480	GOLDSTAR	-
4	2726 / 36661	GOLDSTAR	-				
5	2726 / 36662	GOLDSTAR	-				
6	2726 / 36663	GOLDSTAR	-				
7	2726 / 36664	GOLDSTAR	-				
8	2726 / 36665	GOLDSTAR	-				
9	2726 / 36666	GOLDSTAR	-				
10	2726 / 36667	GOLDSTAR	-				
11	2726 / 38474	GOLDSTAR	-				
12	2726 / 36669	GOLDSTAR	-				
13	2726 / 38476	GOLDSTAR	-				

SEAL RIGS : 2726/34387

CAGE BARS			
2726 / 36676	KNIFE BAR	66	1
2726 / 36675	KNIFE BAR	66	2
2726 / 36676	KNIFE BAR	66	1
2726 / 36377	KNIFE BAR	66	2
2726 / 36378	KNIFE BAR	66	2
2726 / 36379	KNIFE BAR	66	2
2726 / 36380	KNIFE BAR	66	2
2726 / 36381	KNIFE BAR	66	2
2726 / 36382	KNIFE BAR	66	2
2726 / 36383	KNIFE BAR	66	2

DATE	REV	DESCRIPTION OF MODIFICATION	DRH	BY
4/4/24	A	ORIGINAL DRAWING		
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		808 - WORM ASSEMBLY GS ROUNDS KNIFE BARS FOR 801 SERIES	SCALE	DRAWING NUMBER
				F0100



"As a customer of PRAGATTHI-MTW, I've experienced immense benefits from their Smart P&IDs. Their frequent updates have made our P&IDs reliable and accurate, catering to both technical and non-technical staff. The integration of photos, 3D models, and interactive features has revolutionized how we access and understand process information. Most importantly, extracting data from connected databases has led to deeper insights and continuous improvement. This innovation lays the groundwork for advanced tools offered by them, marking a significant leap in process management.

I highly recommend PRAGATTHI-MTW Smart P&IDs for any process industry looking to enhance efficiency and embrace technological advancement."

Christopher Knight
Director of Operations, Montana Specialty Mills,
Great Falls, MT, USA.



Contact our friendly staff at your local office

US Office

Australian Office

Asian Office



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email: info@pragathi-mtw.com

PRAGATHI Product Portfolio - For maximizing your process efficiency

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