



NEW
PROMAX
PROTEIN MAXIMIZER SERIES

POSS World Headquarters
POSS Design Limited

*“World Leader in Quality Separation Solutions since 1978”
Its ALL we do. And we do it ALL.*

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www.poss-separators.com

Why POSS May 2020

POSS PDDX 2 -10 Dual Stage 20 t/hr Separator



*Mechanical Separation.
Its ALL we do. And we do it ALL.*

*POSS, Proven Quality
Since 1978*

Ken Gulak – President

Werner Poss - Founder

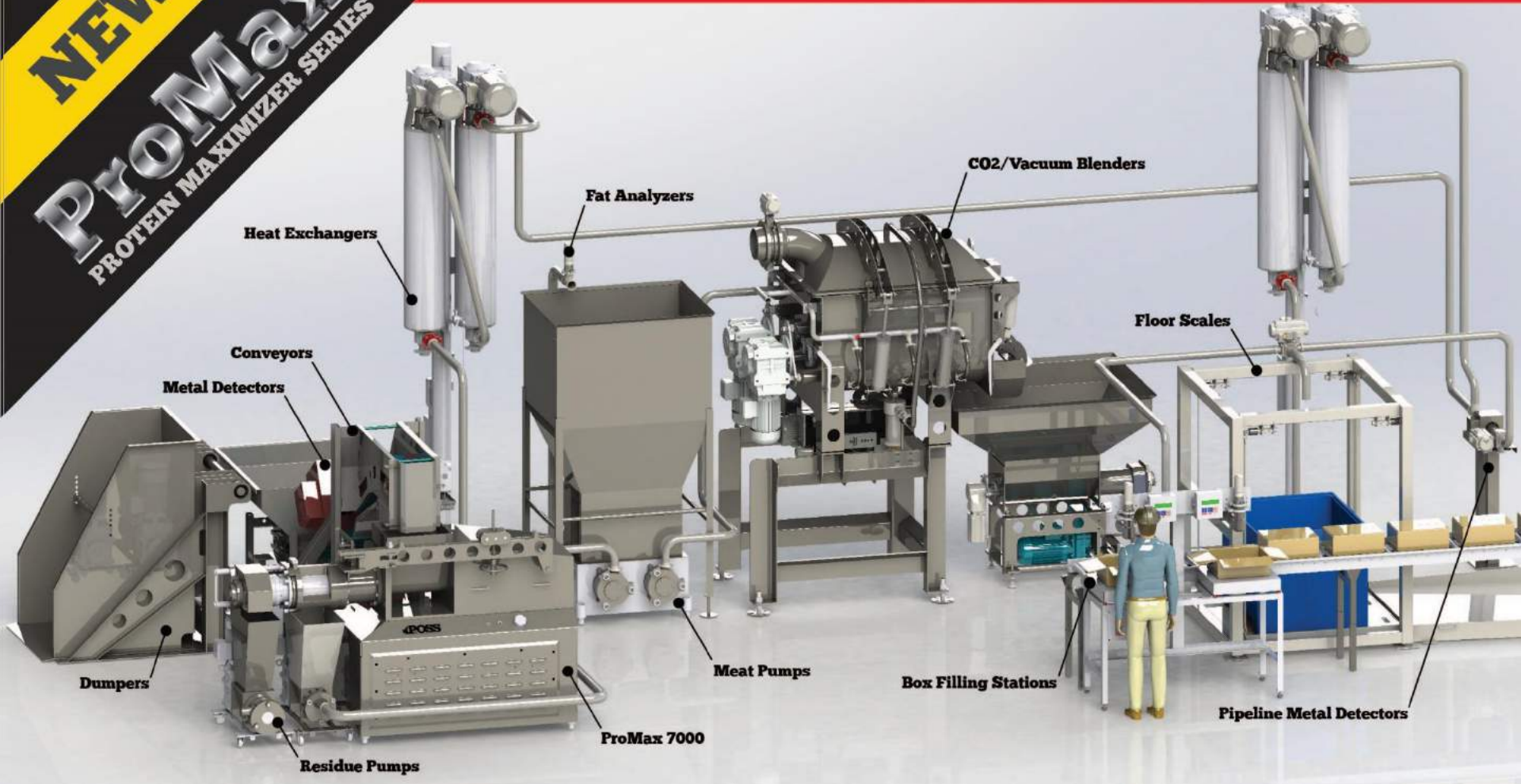
" Mechanical Separation Solutions "

POSS-SEPARATORS.COM

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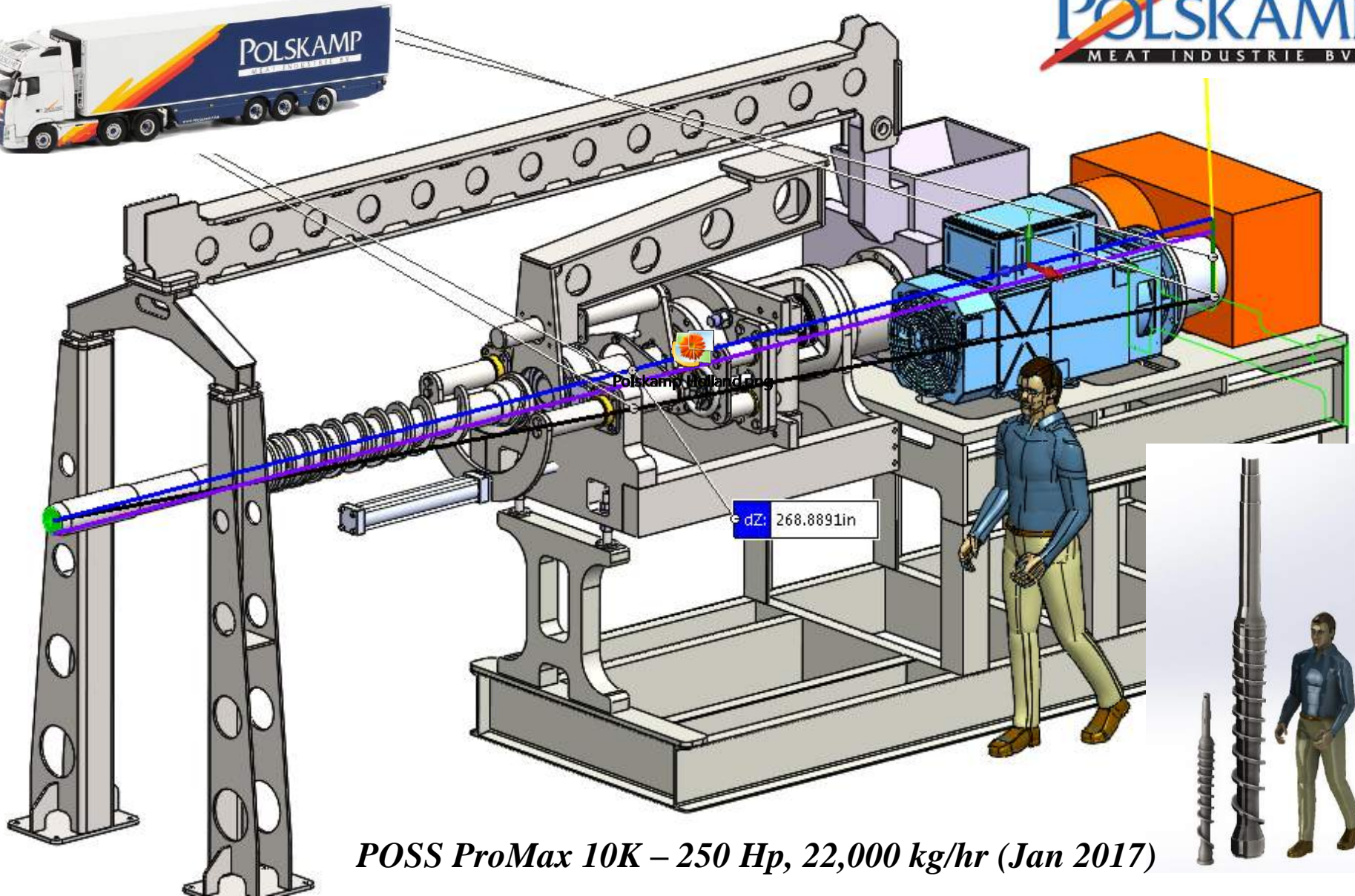


www.poss-separators.com

Over 1400 POSS Installations in 68 Countries Worldwide!



*“World Leader in Quality Separation
Solutions since 1978”*



POSS ProMax 10K – 250 Hp, 22,000 kg/hr (Jan 2017)

It's all we do. And we do it all.

POSS-SEPARATORS.COM

WORLD LEADER IN QUALITY SEPARATION SOLUTIONS SINCE 1978

IT'S ALL WE DO, AND WE DO IT ALL

YIELD

POSS IS 2ND TO NONE

AND IT'S ALL ABOUT YIELD



PROMAX
PROTEIN MAXIMIZER SERIES
NEW

ProMax7000

ProMax6000

ProMax3000

ProMax300C



NEW

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“World Leader in Quality Separation Solutions since 1978”

It's all we do. And we do it all.

Separate “Soft” from “Hard”, including the following:

1. Mechanical Deboning - Chicken / Turkey / Beef / Pork / Fish
2. De-sinewing - Single Screw or using the POSS In Line Pump > ‘ILP’
Boneless Turkey Drum, Boneless Beef Shank or Cartilage
Beef / Pork / Chicken or Turkey “Trim” into Ground Product
Various Trims / Grinder Residues - *found money and increased yield!*
3. Dual Stage Recovery - 2 streams of recovered meat –
“skimming the cream off the milk!”
4. Pork Skin / Fat Separation - a true “win / win”
5. Potato Peel / Feather Waste Dewatering- remove the water
mechanically, saving transportation cost & reducing weight by 85+%

From 500 to 50,000+ lb/hour input capacities

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It's all we do. And we do it all.

Over 1400 Installations in 68 Countries Worldwide!

From 500 lbs/hr (5 hp) to 50,000+ lb/hr (250 hp) input capacities, POSS machines cover the full spectrum of separation applications.

There are more than 1400 machines running in more than 68 countries worldwide, with over 330 installations in the North American Separation Market alone.

More than 900 machines are running conventional chicken mechanical deboning. More than 130 are running turkey deboning, making MST or USDA Ground Turkey from bone in turkey parts / drums. Another 50 were sold for pork deboning and beef shank de-sinewing. The remainder are in various niche applications including pork skin de-fatting and boney trim to recover high value coarse ground product.

MORE THAN 1,250,000 lbs of TURKEY is run on POSS machines in North America EVERY HOUR, EVERY DAY!!



Current POSS Applications
We Separate “Soft” from “Hard”
every hour, every day.

- 1. Chicken**
 - Standard Deboning (MDM / MSC / ‘Ground’) 70-80% yields
 - Soft Separation / Dual Stage – Coarse Ground – 30-40% yields
 - Bony Trim – Coarse Ground – 92-94% yields
 - Keel / Breast Meat Separation- 50/50
 - Single Screw & Extra Coarse Plates ProMax – Coarse Ground from Whole Muscle Input (Spent Hens/Layers, Whole Legs)
- 2. Turkey**
 - Standard Deboning (MDM) 70-80% yields
 - Soft Separation – Coarse Ground – 30-40% yields
 - Bony Trim – Coarse Ground – 90-95% yields
 - Extra Coarse Plates – Coarse “Ground Turkey” from Whole Muscle Input
- 3. Pork**
 - Bony Trim – Coarse Ground with Dual Zone Inline Pump– 75+% yields Pork Skin
 - De-Fatting – Single Pass or Dual Stage / Gelatin
 - Back/Neck , Blade, Sirloin, Chine, Tails, Briskets, Rib Deboning – 40+% yields
- 4. Beef**
 - Beef Shank Desinewing, Grinder Reclaim Rib tip / trachea cartilage Separation
 - Back / Neck and Rib Deboning
- 5. Dewatering**
 - Peel Waste (potato or any vegetable) to lower transport costs
- 6. Fish**
 - High Volume (20+ tonne/hr / edible or pet food) – *ground or surimi*

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“World Leader in Quality Separation Solutions since 1978”

It's all we do. And we do it all.

Key Points which distinguish POSS Mechanical Separators:

- 1. YIELD** – recover at least 95% of the meat available on Raw Material >> \$\$\$\$
- 2. “POSS PH2 Screen Plate” Separation Head** = now with the new ProMax Screen Carrier for easy handling / assembly, sanitation > Better Texture (Perforated Style available)
- 3. Low temperature rise during separation** = Low Pressure, Low RPM (200-280), Positive Feed
- 4. Extremely rugged design and construction** = Lowest Cost Operation over the Long Term (Thrust Bearings, Belts/Sheaves, 5:1 Gear Box, Long Life of wearing parts)
- 5. Raw Material input directly into the hopper** = no pre-grinder or pumps, capable of 500 – 50,000 lbs/hr input (200 – 22,000 kg/hr input) capacities
- 6. Hydraulic Auto Restrictor - Unique to POSS** = Optimal Yields + 5 % > Found Money!
- 7. Versatility of applications** = POSS In Line Pump for “Softer” products
10 to 20 ton/hr ‘Monster POSS’ machines for MAJOR labor cost savings! Dual Stage Separation for a truly “Premium” upgrade of recovered meat
- 8. Up to 5 Year Warranty Available with an Annual Service Contract**

POSS ProMax 4", 5" & 6" Series

ProMax300C
500-700+ kg/hr



7.5 hp (5.6 kW)
Patented Screen Head



ProMax500/1000
15 - 25 hp (11-19 kW)
800 - 1500+ kg/hr
Patented Screen Head



ProMax1500/3000/6000
25-60 hp (19-45 kW)
2000-5000+ kg/hr
POSS Auto Restrictor
Patented Screen Head

NEW
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PROTEIN MAXIMIZER SERIES

The new POSS ProMax7000 series – launched Aug 2015
Single 7" dia screw, low rpm, spiral barrel bell housing sleeve
ProMax Screen plate carrier, Assembly crane with screw puller,
Zambello 5:1 Gearbox with integrated thrust bearing



POSS ProMax7000

NEW
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PROTEIN MAXIMIZER SERIES

The new POSS ProMax9000 series – 150 to 250 hp – launched Jan 2018

9" dia screw, low rpm, extended spiral barrel bell housing sleeve

ProMax Screen plate carrier in one piece head, Assembly crane with screw puller, Zambello 5:1 Gearbox with integrated thrust bearing

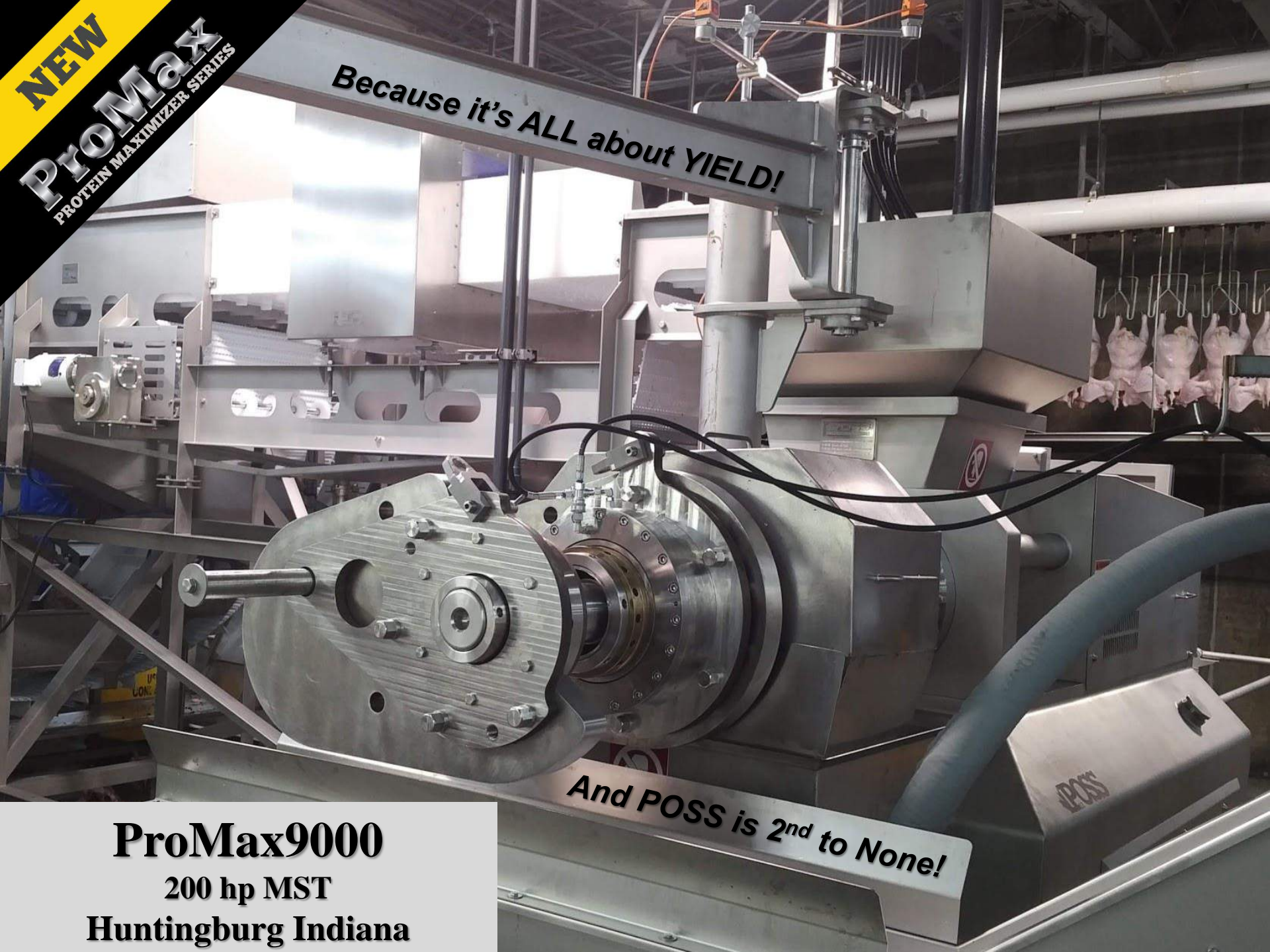


POSS ProMax9000

Up to 17,000 + kg/hr

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Because it's ALL about YIELD!



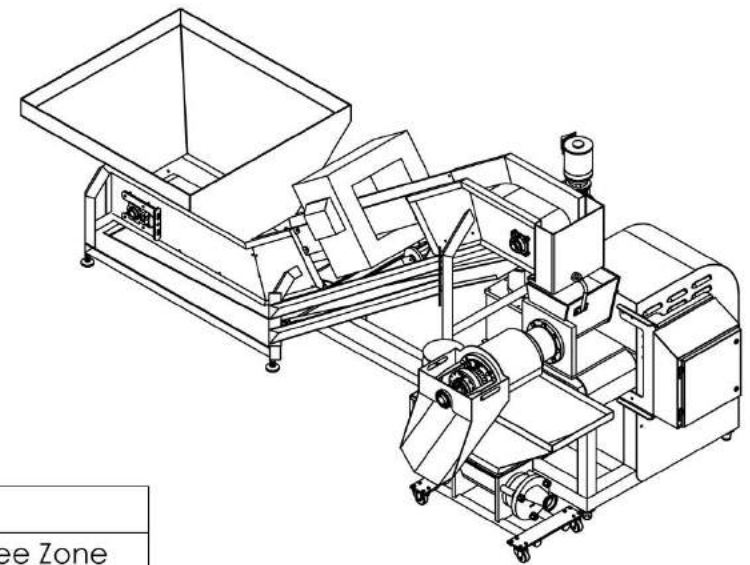
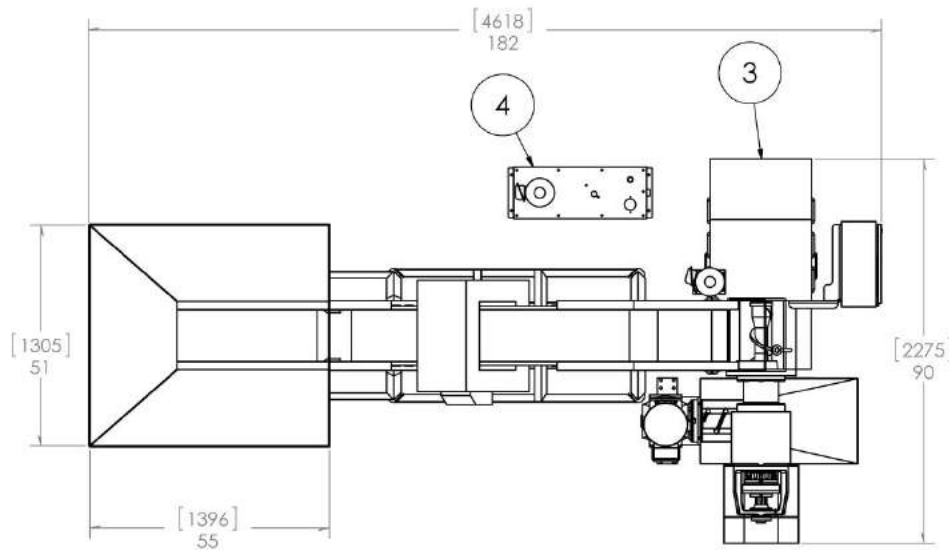
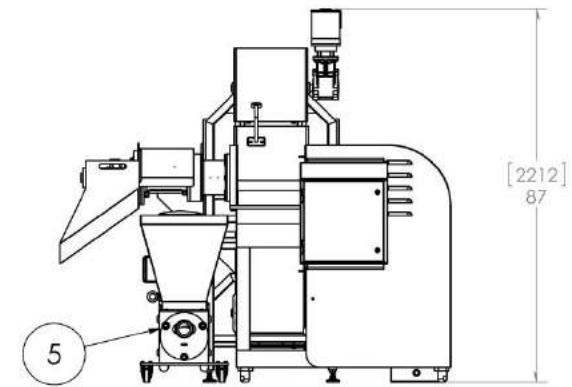
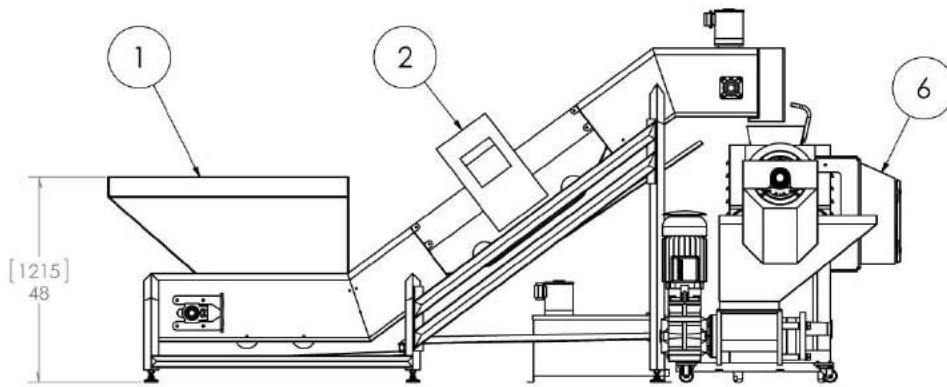
And POSS is 2nd to None!

ProMax9000
200 hp MST
Huntingburg Indiana

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Typical Expected Yields, achievable with the POSS Auto Restrictor, “floating” against the bone residue stream – **Only from POSS.**

<u>Input Raw Material</u>	<u>Chicken</u>	<u>Turkey</u>
• Necks (Skin on)	78%	73-75%
• Necks (Skin off)	76%	70-75%
• Breast Cages	75+%	71-74%
• Backs	77%	65-72%
• Thighs (skin on)	78%	88+%
• Drumsticks (skin on)	72- 74%	78-80 + %
• Wings Complete	65%	71-73%
• Spent Fowl (breast on)	84-86%	
• Complete frames	80-84%	70-73%
• Mixed Frames & Backs	74-78%	74-76%
• Boneless Turkey Drum Desinewing		92+ %
• Boney Trim	92-94+ %	95 + %
• Grinder Trim Reclaim	80+ %	80+ %



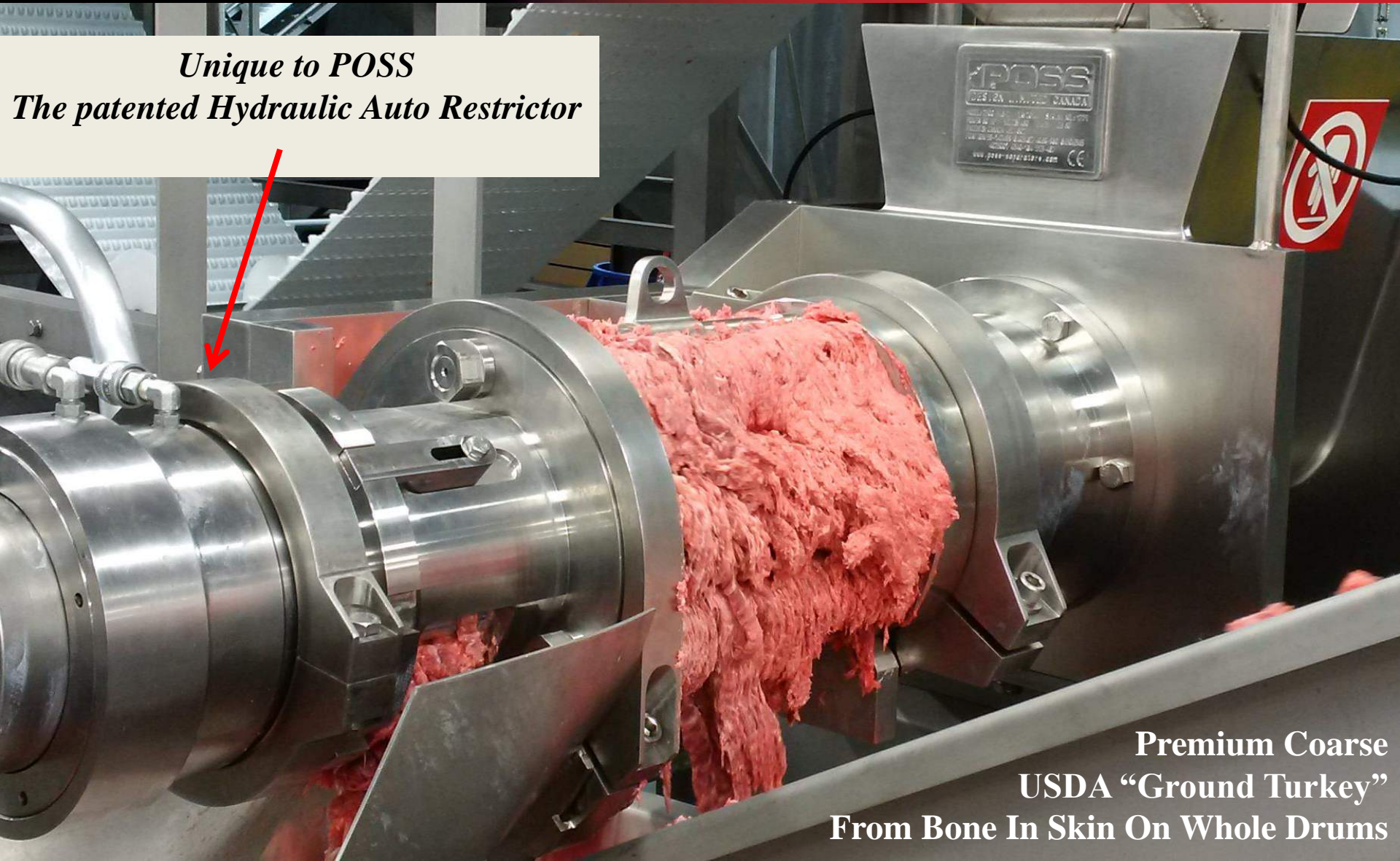
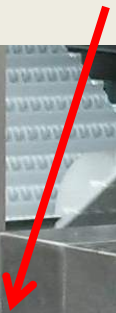
ITEM	DESCRIPTION
1	1500 Litre Dogleg Cleated Incline Conveyor with Metal Free Zone
2	16 X 14 Inline Metal Detector
3	PDL 5 Series POSS Separator with Autorestrictor
4	POSS Autorestrictor S.S. Power Unit
5	POSS Meat Pump (Auger Fed)
6	POSS Machine Mounted S.S. Control Panel with Touchscreen HMI





**Compact, Clean, High Volume,
High Yield, Great Texture & Low Temp Rise**

*Unique to POSS
The patented Hydraulic Auto Restrictor*



**Premium Coarse
USDA "Ground Turkey"
From Bone In Skin On Whole Drums**



**POSS PDZ
710 – 100 hp**



**Meat Pump
Residue Pump
Auto Fat Analyzer**

**Custom POSS Meat & Residue Pumps
Available in a full range of
throughput capacities.**

There's a *POSS* to suit your requirements.



Paddle / Ribbon
Mix / Chill /
Vacuum

Custom CO2
Injection Blender
- Sliding lid for
low ceiling

Custom
Incline Belt
Conveyor with
Metal Detector



Single / Double Barrel
Monster 815 Meat
Pump – up to 40,000
lb/hr capacity
(Twin 25 - 30 hp drives)
Custom Hopper to Suit



***Mechanical
Separation***

***It's ALL we
do....
And we do it
ALL!!!***

Custom Turn-key Solutions from POSS

Custom Turn-Key POSS Mechanical Separation Solutions



**Combo Dumper, Cleated Flat Belt
Conveyor with Metal Detector, POSS
ProMax3000 with parts cart, POSS
PK6 Custom Meat Pump and Bone
Residue Pump, Two SSHE & Dual
Scale Box fill**



NEW
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 PROTEIN MAXIMIZER SERIES

ProMax Series

It's my pleasure to introduce the latest addition to the POSS Separator lineup - the Protein Maximizer/ProMax Series. Completely redesigned, from the drive through to the newly designed flow through restrictor with the outboard bearing carrier, the ProMax series provides unparalleled performance across the full spectrum of measures - yield, temperature rise, and through-put - all with the lowest possible bone/calcium in the premium coarse ground meat recovered from the POSS Screen Plate head. To achieve consistently high yields requires a heavy duty, rigid machine which can take a very high sustained thrust load through the screw and into the thrust bearing assembly. The uniquely redesigned POSS flow-through hydraulic Auto Restrictor works together with a single reduction, thrust capable Zambello gearbox designed

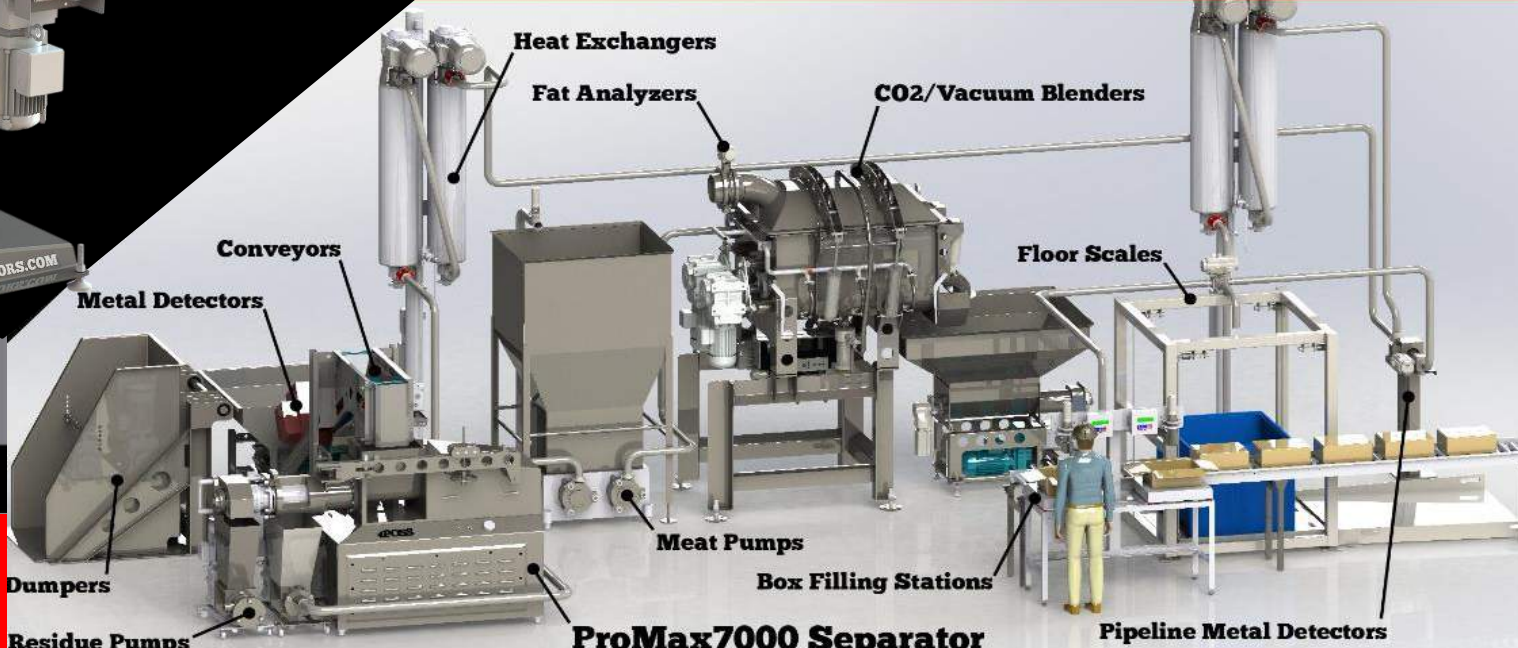
with a 4:1 service factor, for years of reliable service and the highest yields in the industry. The newly designed POSS Powerfeed Hopper, the extended spiral barrel compression zone, the breakthrough POSS Screen Plate Carrier Assembly, and a host of other new features combine to ensure POSS maintains its position as the World Leader in Quality Separation Solutions since 1978. From 500 lbs/hr (7.5hp) to 55,000+ lbs/hr (250hp) input capacities. POSS machines cover the full spectrum of separation applications. There are more than 1400 machines running in more than 68 countries worldwide. Let us build one for you!

- Ken B Gulak, President
 kgulak@poss-separators.com



New ProMax 300C

It's all we do. And we do it all.



ProMax7000 Separator

POSS		Pro Max 4 / 5					Pro Max 6 / 7 / 9				PDZ - 2017 Series				
		300C/500/1000/1500/3000					4000/6000/7000/9000				5	7	710	812	815
Mechanical Separation Solutions		300C	500	1000	1500	3000	4000	6000	7000	9000	5	7	710	812	815
Standard Rated	(up to kg/hr)	500	600	1,000	1,500	3,000	4,000	6,000	8,000	15,000	6,000	8,000	10,000	12,000	16,000
Input Capacity	(up to lb/hr)	1,100	1,320	2,200	3,300	6,600	8,800	13,200	17,600	33,000	13,200	17,600	22,000	26,400	35,200
Standard Rated	(Hp)	5 - 7.5	10	20	25	30 /40	50	60	100	150-200	75	100	100	125	150
Power	(Kw)	3.7 - 5.7	7.5	15	19	22.5 / 30	37.5	45	75	113/150	56	75	75	94	113
Available Screw Setup (Single/Dual)		●/●●	●/●●	●/●●	●/●●	●/●●	●/●●	●/●●	●/●●	●●	●/●●	●/●●	●/●●	●/●●	●/●●
Patented POSS Screen Plate Option		●	●	●	●	●	●	●	●	●	●	●	●	●	●
Drilled Style Perforated Screen Option		●	●	●	●	●	●	●	●	●	●	●	●	●	●
Inline Pump Option		●	●	●	●	●	●	●	●	●	●	●	●	●	●
Heavy Duty Thrust Bearing		●	●	●	●	●	●	●	●	●	●	●	●	●	●
Side Arm on Machine											●	●	●	●	●
Head Clamp & Saddle Assembly											●	●	●	●	●
Level Control Option		●	●	●	●	●	●	●	●	●	●	●	●	●	●
Assembly Crane & Hoist Option Available								●	●	●	●	●	●	●	●
Parts Cart, Washdown, & Assembly Rack		●	●	●	●	●	●	●	●	●	●	●	●	●	●
Auto Restrictor Option						●	●	●	●	●	●	●	●	●	●
Machine Length	(in)	54	58	82	85	85	94	94	125	151	117	117	122	122	144
	(mm)	1,372	1,473	2,083	2,159	2,159	2,388	2,388	3,175	3,835	2,972	2,972	3,099	3,099	3,658
Machine Width	(in)	27	24	24	35	35	35	35	42	55	45	45	45	45	60
	(mm)	686	610	610	889	889	889	889	1,067	1,397	1,143	1,143	1,143	1,143	1,524
Infeed Screw Diameter	(in)	4	4	5	5	5	6	6	7	9	8	8	8	8	8
	(mm)	102	102	127	127	127	152	152	178	229	203	203	203	203	203
Hopper Length	(in)	10	10	10	16	16	16	16	25	25	25	25	25	25	25
POWERFEED DESIGN	(mm)	254	254	254	406	406	406	406	635	635	635	635	635	635	635
Head Length	(in)	5	5	5	8	8	10	10	12	16	14	16	16	16	18
	(mm)	127	127	127	203	203	254	254	305	406	356	406	406	406	457
Head Diameter	(in)	4	4	5	5	5	6	6	7	9	6	7	7	8	8
	(mm)	102	102	127	127	127	152	152	178	229	152	178	178	203	203
Infeed Height	(in)	54	55	60	60	60	62	62	72	86	70	70	70	70	80
	(mm)	1,372	1,397	1,524	1,524	1,524	1,575	1,575	1,829	2,184	1,778	1,778	1,778	1,778	2,032
<i>machine length does not include cranes or discharge chutes</i>											<i>Published Jan 2019 RevK</i>				
<i>Manufacturer reserves the right to modify product specifications as deemed necessary without notice</i>															