

# **FLOW FORCE TECHNOLOGIES PTY LTD**

## **SELECTION GUIDE**

### **SERIES 1 STYLE**

- i** Designed for those applications where only an inclined chute/pipe is available
- i** Insensitive to product build-up on impact plates

**Requirements:**      **Constant input velocity**  
                              **Dry, free-flowing product**  
                              **Fine granules or powders**

**Examples:**            **Loading into truck from silo**  
                              **Process measurement and/or control**

**Materials:**            **Body Stainless steel**  
                              **Impact Plate Bisalloy 360**

**Finish:**                **Glass bead blasted**

**Drawing ref:**        **FF 850006, issue B**

**Ancillaries:**         **Air purge solenoid valve**  
                              **Special test weight**

**Sensor:**                **Single point load cell sized account to application**

**Electronics:**        **Flow Force Model XR Controller/Integrator**

**Patent:**                **Australian Patent No 602246**

# **FLOW FORCE TECHNOLOGIES PTY LTD**

## **SELECTION GUIDE - CONTINUED**

### **SERIES 2 STYLE**

- i Design specifically for heavy mineral sands duty.**
- i Designed for those applications where a vertical chute / pipe is available**
- i Input velocity may vary as a flow stabiliser is included in the top section of the weigher**
- i Insensitive to product build-up on impact plate**
- i Sand box design prevents abrasion of body internals by even highly abrasive products**

**Requirements:**      **Zero horizontal offset between inlet and outlet.**  
**Dry, free-flowing product**  
**Fine granules**

**Examples:**            **Loading into truck from silo**  
**Process measurement and/or control**

**Materials:**            **Body 304 Stainless steel**  
**Impact Plate Bisalloy 360**

**Finish:**                **Glass bead blasted**

**Drawing ref:**        **FF 850002, issue C**

**Ancillaries:**         **Special test weight**

**Sensor:**                **Single point load cell sized account to application**

**Electronics:**        **Flow Force Model XR Controller/Integrator**

**Patent:**                **Australian Patent No 602246**

# **FLOW FORCE TECHNOLOGIES PTY LTD**

## **SELECTION GUIDE - CONTINUED**

### **SERIES 2A STYLE**

- i Based on Series 2 style but includes a built-in cross sweep sampler**
- i Designed specifically for heavy mineral sands duty**
- i Designed for those applications where a vertical chute / pipe is available.**
- i Input velocity may vary as a flow stabiliser is included in the top section of the weigher.**
- i Insensitive to product build-up on impact plates**
- i Sand Box Design prevents abrasion of body internals by even highly abrasive products.**

**Requirements: Zero horizontal offset between inlet and outlet**

**Dry, free-flowing product**

**Fine granules**

**Examples: Loading into truck from silo**

**Process measurement and/or control**

**Materials: Body Stainless steel**

**Impact Plate Bisalloy 360**

**Finish: Glass bead blasted**

**Drawing ref: STD-2AXXX-STYLE-GA-01**

**Ancillaries: Sampler pneumatic actuator**

**Sampler actuator control solenoid valve**

**Special test weight**

**Sensor: Single point load cell sized account to application**

**Electronics: Flow Force Model XR Controller/Integrator**

**Patent: Australian Patent No 602246**

## SELECTION GUIDE - CONTINUED

### SERIES 2A STYLE – continued

#### Sampler Specifications:

<b>Sampler Type</b>	<b>Radial falling stream cutter</b>
<b>Cutter aperture:</b>	<b>0-15mm adjustable via 3 set screws;</b>
<b>Cutter Tip material:</b>	<b>Bisalloy 360</b>
<b>Cutter parked position:</b>	<b>Sealed</b>
<b>Cutter actuator:</b>	<b>Fail-safe, spring return so that air flows to a blocked port</b>
<b>Solenoid</b>	<b>24vdc</b>
<b>Air Supply pressure:</b>	<b>600kPa</b>
<b>Air Supply conditioning:</b>	<b>Filter/regulator/lubricator by client</b>
<b>Local/remote control:</b>	<b>Selection from XR Keypad</b>
<b>Local Control:</b>	<b>Sample interval &amp; Duration selected from XR Keypad</b>
<b>Remote Control:</b>	<b>Sample initiated via digital input to XR Controller</b>
<b>Guards:</b>	<b>Moving parts guarded in accordance with Worksafe and Mines Safety and inspection regulations</b>
<b>Australian Standard:</b>	<b>AS2884.1-1997 Heavy Mineral sand Concentrates – Sampling Part 1: Moving streams</b>

**NOTES & OPTIONS**

WEIGH MODULE CAN BE SPECIFIED AS EITHER:

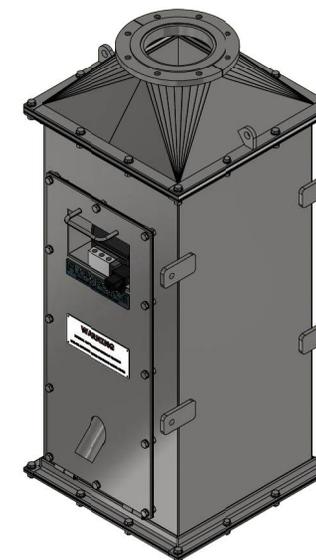
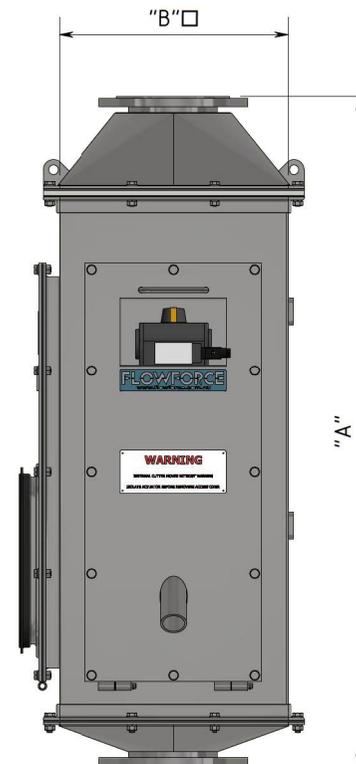
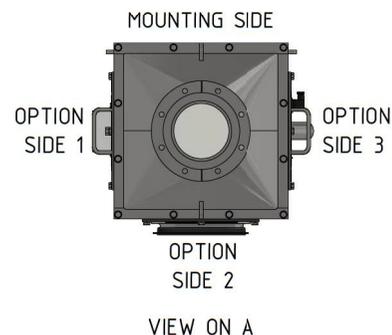
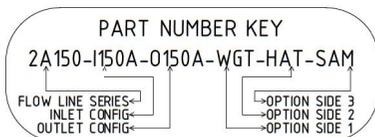
- STANDARD (WGT)
- EXTERNAL (WGTX)

INLET & OUTLET FLANGES CAN BE SPECIFIED WITH:

- ANY STANDARD PIPE FLANGE DRILLING INCLUDING TAB D, ANSI, ISO
- ANY SQUARE OR RECTANGULAR FLANGE & HOLE PATTERN TO SUIT CUSTOMERS REQUIREMENTS

SEE NEXT SHEET FOR OTHER OPTIONS

GENERAL MODEL DIMENSIONS		
MODEL	A	B
50	995	400
80		
100		
125	1250	430
150		
200		



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FLOWLINE WEIGHER/SAMPLER  
STYLE, SIZING & OPTION DRAWINGS  
SERIES 2A MODELS 50 TO 200  
STYLE GENERAL ARRANGEMENT

DRAWING No: STD-2AXXX-STYLE-GA-01 SHEET 1 OF 2

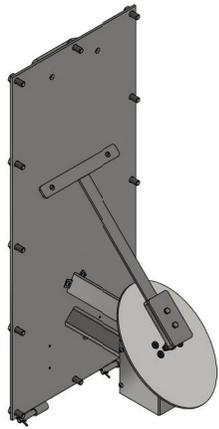
STD-2AXXX-STYLE-GA-01.dwg REVISION **A**

CLIENT No:

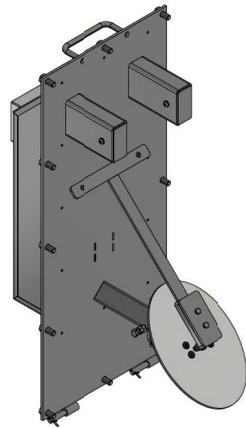
PROJECT No: STD SIZE **A3**

REV	DATE	DESCRIPTION	BY	CHK	APP
A	28/11/2019	ISSUED FOR INFORMATION	SS	GJ	GJ

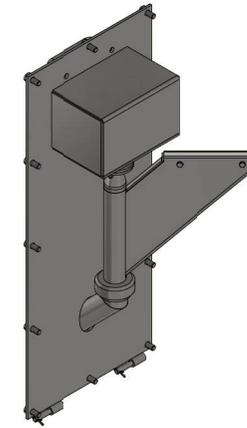
REVISION HISTORY



STANDARD WEIGH MODULE  
"WGT"



EXTERNAL CELL WEIGH MODULE  
"WGTX"



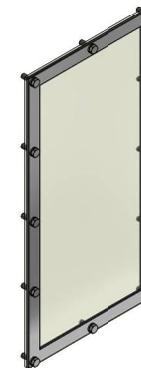
CROSS-CUT SAMPLER MODULE  
"SAM"



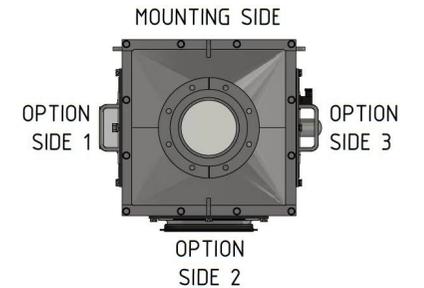
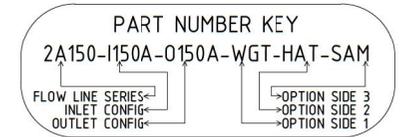
HATCH PANEL  
"HAT"



BLANK PANEL  
"ACC01"



LEXAN PANEL  
"ACC02"



REV	DATE	DESCRIPTION	BY	CHK	APP
A	28/11/2019	ISSUED FOR INFORMATION	SS	GJ	GJ

REVISION HISTORY



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FLOWLINE WEIGHER/SAMPLER  
STYLE, SIZING & OPTION DRAWINGS  
SERIES 2A MODELS 50 TO 200  
WEIGHER/SAMPLER OPTIONS

DRAWING No: **STD-2AXXX-STYLE-GA-01** SHEET 2 OF 2

STD-2AXXX-STYLE-GA-01.dwg	REVISION <b>A</b>
CLIENT No:	
PROJECT No: <b>STD</b>	SIZE <b>A3</b>

# **FLOW FORCE TECHNOLOGIES PTY LTD**

## **SELECTION GUIDE - CONTINUED**

### **SERIES 2B STYLE**

- i **Designed specifically for heavy mineral sands duty**
- i **Designed for those applications where a vertical chute / pipe is available.**
- i **Input velocity may vary as a flow stabiliser is included in the top section of the weigher.**
- i **Insensitive to product build-up on impact plates**
- i **Sand Box Design prevents abrasion of body internals by even highly abrasive products.**
- i **Flow stabiliser deleted to allow for those applications where a constant input velocity can be assured.**

**Requirements:**      **Zero horizontal offset between inlet and outlet**  
**Constant input velocity**  
**Dry, free-flowing product**  
**Fine granules**

**Examples:**            **Loading into truck from silo**  
**Process measurement and/or control**

**Materials:**            **Body Stainless steel**  
**Impact Plate Bisalloy 360**

**Finish:**                **Glass bead blasted**

**Drawing ref:**        **STD-2BXXX-STYLE-GA-01 -- REV A**

**Ancillaries:**        **Air purge solenoid valve (For powdery applications)**  
**Special test weight**

**Sensor:**                **Single point load cell sized account to application**

**Electronics:**        **Flow Force Model XR Controller/Integrator**

**Patent:**                **Australian Patent No 602246**

**NOTES & OPTIONS**

WEIGH MODULE CAN BE SPECIFIED AS EITHER:

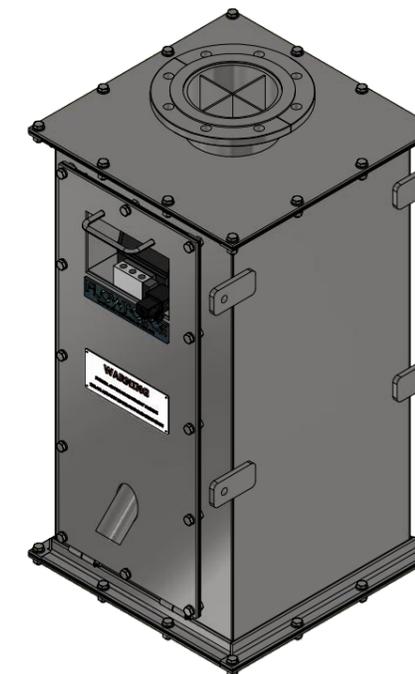
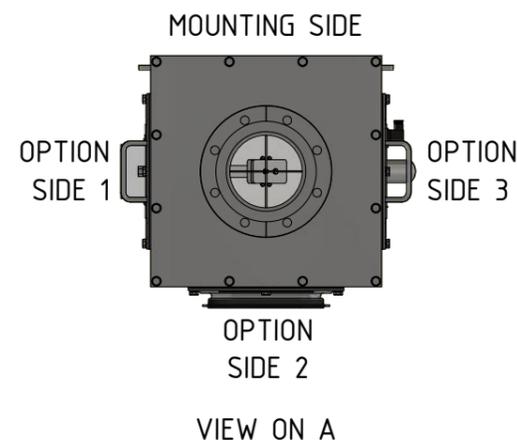
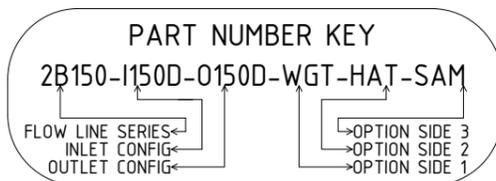
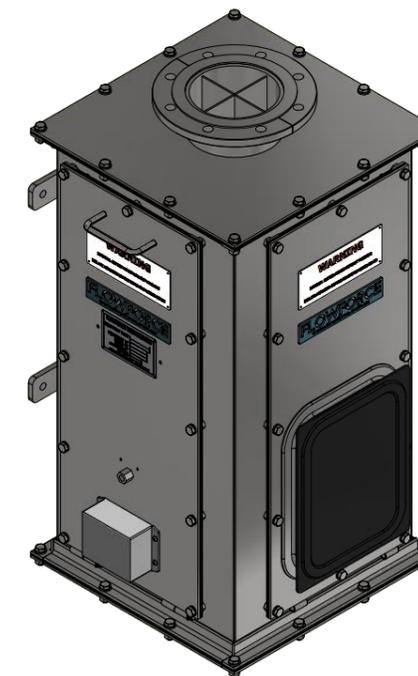
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SEE NEXT SHEET FOR OTHER OPTIONS

GENERAL MODEL DIMENSIONS		
MODEL	A	B
50	895	400
80		
100		
125	1050	430
150		
200		500



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FLOWLINE WEIGHER/SAMPLER  
 STYLE, SIZING & OPTION DRAWINGS  
 SERIES 2B MODELS 50 TO 200  
 STYLE GENERAL ARRANGEMENT

DRAWING No: **STD-2BXXX-STYLE-GA-01** SHEET 1 OF 2

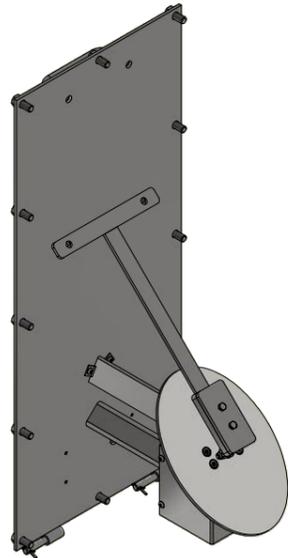
STD-2BXXX-STYLE-GA-01.idw REVISION **A**

CLIENT No:

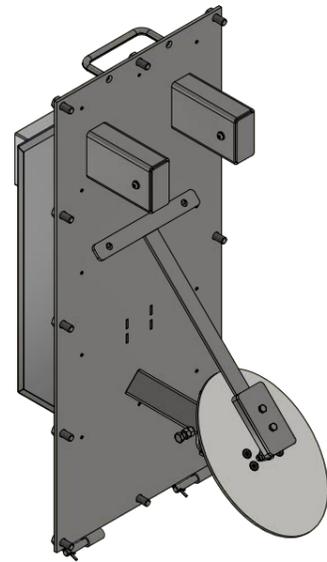
PROJECT No: **STD** SIZE **A3**

REV	DATE	DESCRIPTION	BY	CHK	APP
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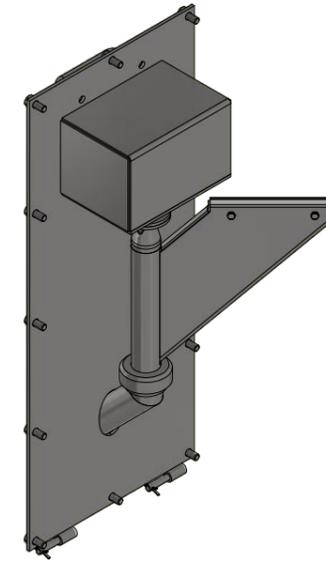
REVISION HISTORY



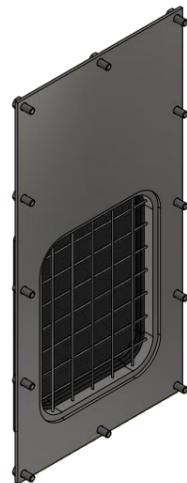
STANDARD WEIGH MODULE  
"WGT"



EXTERNAL CELL WEIGH MODULE  
"WGTX"



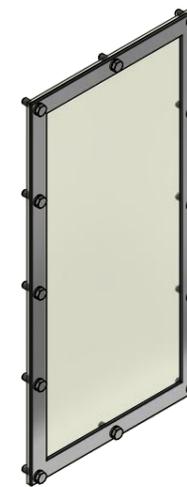
CROSS-CUT SAMPLER MODULE  
"SAM"



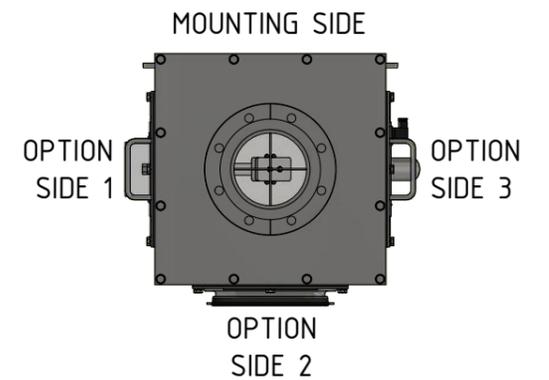
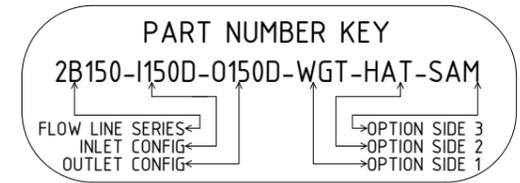
HATCH PANEL  
"HAT"



BLANK PANEL  
"ACC01"



LEXAN PANEL  
"ACC02"



REV	DATE	DESCRIPTION	BY	CHK	APP
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CLIENT: FFT

DRAWING No: STD-2BXXX-STYLE-GA-01

SHEET 2 OF 2

FLOWLINE WEIGHER/SAMPLER  
STYLE, SIZING & OPTION DRAWINGS  
SERIES 2B MODELS 50 TO 200  
WEIGHER/SAMPLER OPTIONS

STD-2BXXX-STYLE-GA-01.idw

CLIENT No:

PROJECT No: STD

REVISION A

SIZE A3

# **FLOW FORCE TECHNOLOGIES PTY LTD**

## **SELECTION GUIDE - CONTINUED**

### **SERIES 3 STYLE**

- i **Designed for those applications where a vertical chute / pipe is available; and a horizontal offset between inlet and outlet is permissible.**
- i **Designed to accommodate large flows of powdery product; eg cement.**
- i **Insensitive to product build-up on impact plates**

**Requirements:**      **Constant input velocity**  
                             **Dry, free-flowing product**  
                             **Fine granules or powders**

**Examples:**            **Loading into truck from silo**  
                             **Process measurement and/or control**

**Materials:**            **Body 304 Stainless steel**  
                             **Impact Plate Bisalloy 360**

**Finish:**                **Glass bead blasted**

**Drawing ref:**        **FF 850003, issue C**

**Ancillaries:**         **Air purge solenoid valve**  
                             **Special test weight**

**Sensor:**                **Single point load cell sized account to application**

**Electronics:**        **Flow Force Model XR Controller/Integrator**

**Patent:**                **Australian Patent No 602246**

# FLOW FORCE TECHNOLOGIES PTY LTD

## SELECTION GUIDE - CONTINUED

### SERIES 3A STYLE

- i Designed for those applications where a vertical chute / pipe is available; and a horizontal offset between inlet and outlet is permissible.
- i Designed to accommodate medium or large flows of granular free-flowing product; eg mineral sand
- i Available with built-in cross sweep sampler
- i Sensitive to vertical impact force

**Requirements:**      **Constant input velocity**  
                             **Dry, free-flowing product**  
                             **Fine granules**

**Examples:**            **Loading into truck from silo**  
                             **Process measurement and/or control**

**Materials:**            **Body 304 Stainless steel**  
                             **Impact Plate Bisalloy 360**

**Finish:**                **Glass bead blasted**

**Drawing ref:**        **FF 850004, issue E**  
                             **FF 2040000, Issue A (Model 200/S with built-in sampler).**

**Ancillaries:**            **Special test weight**

**Sensor:**                **Single point load cell sized account to application**

**Electronics:**        **Flow Force Model XR Controller/Integrator**

**Sampler Specifications:** refer **Series 2A Style**

**Patent:**                **Australian Patent No 602246**

# **FLOW FORCE TECHNOLOGIES PTY LTD**

## **SELECTION GUIDE - CONTINUED**

### **SERIES 3B STYLE**

- i Designed for those applications where a vertical chute / pipe is available; and a horizontal offset between inlet and outlet is permissible.**
- i Designed to accommodate medium to large flows of powdery product; eg cement, fly ash, alumina**
- i Insensitive to product build-up on impact plates**

**Requirements:**      **Constant input velocity**  
                              **Dry, free-flowing product**  
                              **Powders or fine granules**

**Examples:**            **Loading into truck from silo**  
                              **Process measurement and/or control**

**Materials:**            **Body 304 Stainless steel**  
                              **Impact Plate Bisalloy 360**

**Finish:**                **Glass bead blasted**

**Drawing ref:**        **STD-3BXXX-STYLE-GA-01 (Typical Installation Arrangement).**

**Ancillaries:**         **Air purge solenoid valve**  
                              **Special test weight**

**Sensor:**               **Single point load cell(s) sized account to application**

**Electronics:**        **Flow Force Model XR Controller/Integrator**

**Patent:**                **Australian Patent No 602246**

**NOTES & OPTIONS**

WEIGH MODULE CAN BE SPECIFIED AS EITHER:

- STANDARD (WGT)
- MAGNAFLOW (WM)

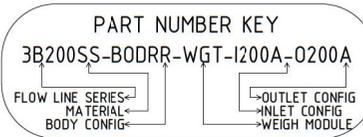
ACCESS DOOR CAN BE SPECIFIED:

- ON EITHER RIGHT OR LEFT SIDE OF BODY
- OPENING EITHER TO THE RIGHT OR TO THE LEFT

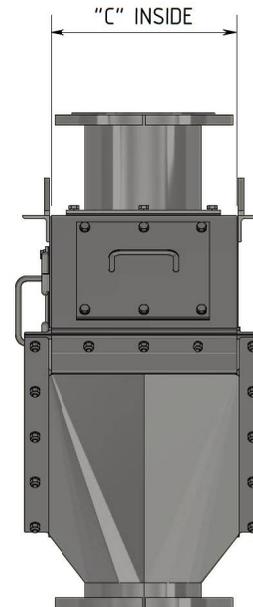
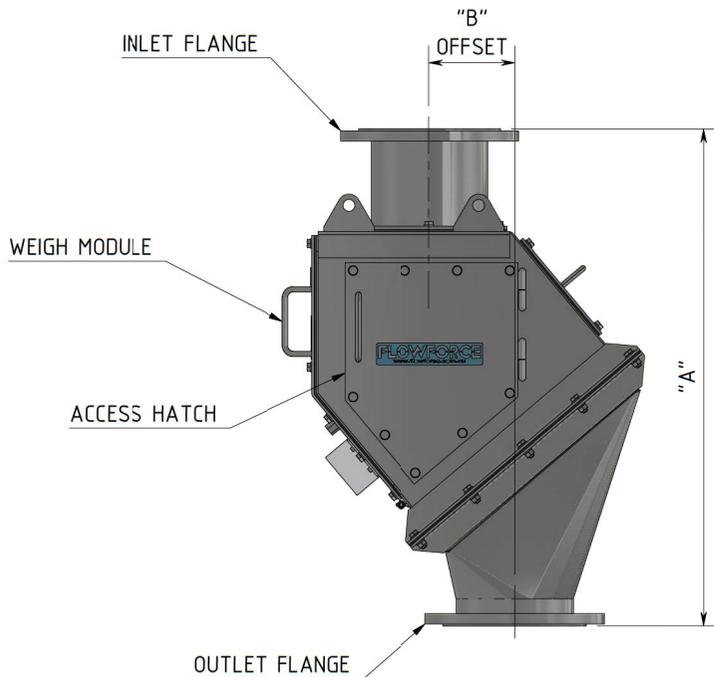
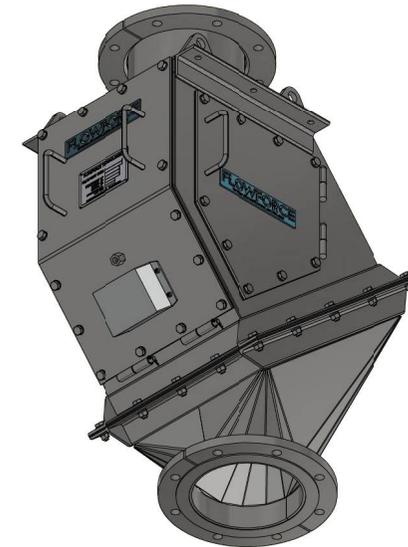
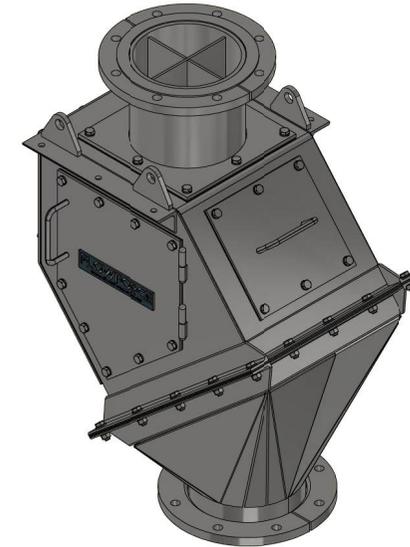
INLET & OUTLET FLANGES CAN BE SPECIFIED WITH:

- ANY STANDARD PIPE FLANGE DRILLING INCLUDING TAB D, ANSI, ISO
- ANY SQUARE OR RECTANGULAR FLANGE & HOLE PATTERN TO SUIT CUSTOMERS REQUIREMENTS

MOUNTING STAND ALSO AVAILABLE



GENERAL MODEL DIMENSIONS			
MODEL	A	B	C
50	925	160	240
80			
100			
150			
200			
250	1050	250	430
350			500
400	1350	340	550
450			600



REV	DATE	DESCRIPTION	BY	CHK	APP
A	26/11/2019	ISSUED FOR INFORMATION	SS	GJ	GJ

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 CHK:  
 APP:

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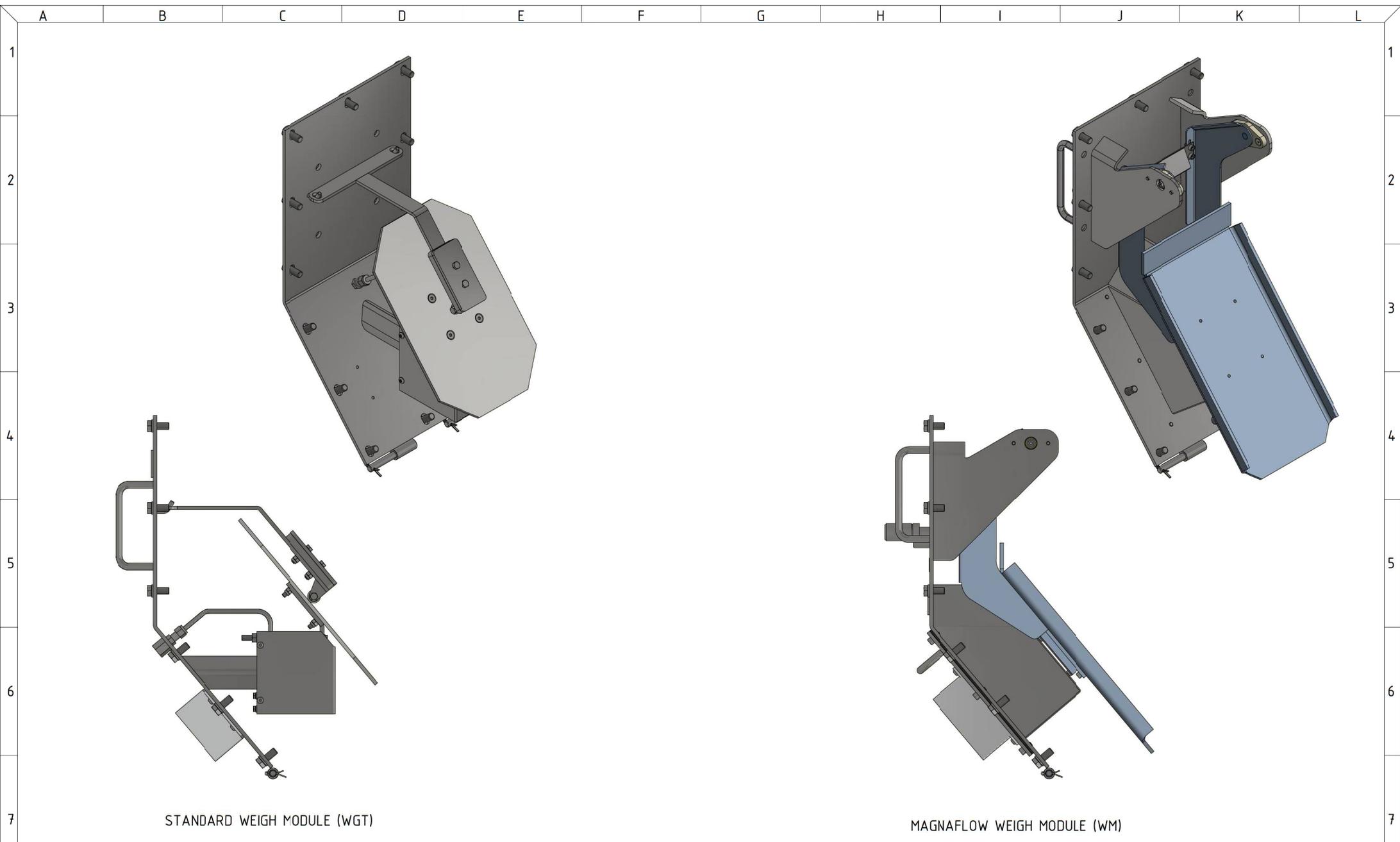
FLOW LINE WEIGHER  
 STYLE & SIZING DRAWINGS  
 SERIES 3B MODELS 50 TO 450  
 STYLE GENERAL ARRANGEMENT

DRAWING No: **STD-3BXXX-STYLE-GA-01** SHEET 1 OF 2

CLIENT No: **STD** PROJECT No: **STD**

REVISION **A**

SIZE **A3**



STANDARD WEIGH MODULE (WGT)

MAGNAFLOW WEIGH MODULE (WM)

REV	DATE	DESCRIPTION	BY	CHK	APP
A	26/11/2019	ISSUED FOR INFORMATION	SS	GJ	GJ

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FLOW LINE WEIGHER  
 STYLE & SIZING DRAWINGS  
 SERIES 3B MODELS 50 TO 450  
 WEIGH MODULE OPTIONS

DRAWING No: **STD-3BXXX-STYLE-GA-01** SHEET 2 OF 2

STD-3BXXX-STYLE-GA-01.idw REVISION **A**

CLIENT No:

PROJECT No: **STD** SIZE **A3**

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## **SELECTION GUIDE - CONTINUED**

### **SERIES 3D STYLE**

- i **Dual plate weigher designed for measuring discharge directly from large bins at flow rates up to 2000t/hr**
- i **Designed to accommodate large flows of granular or powdery product; eg grain, cement, fly ash, alumina.**
- i **Insensitive to product build-up on impact plates**

**Requirements:**      **Constant input velocity**  
                              **Dry, free-flowing product**  
                              **Powder or fine granules**

**Examples:**            **Loading into truck from silo**  
                              **Process measurement and/or control**

**Materials:**            **Body 304 Stainless steel**  
                              **Impact Plate Bisalloy 360**

**Finish:**                **Glass bead blasted**

**Drawing ref:**        **FF 850011, issue B**

**Ancillaries:**         **Air purge solenoid valve**  
                              **Special test weight**

**Sensor:**                **Single point load cell(s) sized account to application**

**Electronics:**        **Flow Force Model XR Controller/Integrator**

**Patent:**                **Australian Patent No 602246**

# FLOW FORCE TECHNOLOGIES PTY LTD

## SELECTION GUIDE - CONTINUED

### SERIES 3AD STYLE

- i Designed for food grade applications where a vertical chute / pipe is available; and a horizontal offset between inlet and outlet is permissible.
- i Designed to accommodate low to medium flows of powdery food products; eg milk powder
- i Designed to accommodate regular wash-down of internal surfaces
- i Sealed load cell enclosure

**Requirements:**      **Constant input velocity**  
                             **Dry, free-flowing product**  
                             **Powder or fine granules**

**Examples:**            **Loading into truck from silo**  
                             **Process measurement and/or control**

**Materials:**            **Body 304 Stainless steel**  
                             **Impact Plate Bisalloy 360**

**Finish:**                **Glass bead blasted**

**Drawing ref:**        **FF 850013, issue A**

**Ancillaries:**         **Air cleaning solenoid valve**  
                             **Special test weight**

**Sensor:**               **Single point load cell sized account to application**

**Electronics:**       **Flow Force Model XR Controller/Integrator**

**Patent:**               **Australian Patent No 602246**

# FLOW FORCE TECHNOLOGIES PTY LTD

## SELECTION GUIDE - CONTINUED

### ECONOFLOW:

- i Designed for those applications where either an inclined chute or a vertical chute/pipe is available; and a horizontal offset between inlet and outlet is permissible.
- i Design to accommodate low flows of granular or powdery product; eg processed grains; alumina; mineral sand
- i Insensitive to product build-up on impact plate

**Requirements:**      **Constant input velocity**  
                                 **Dry, free-flowing product**  
                                 **Powder or fine granules**

**Examples:**              **Process measurement and/or control**

**Materials:**              **Body 304 Stainless steel**  
                                 **Impact Plate Bisalloy 360**

**Finish:**                  **Glass bead blasted**

**Drawing ref:**          **FF 850023, issue B**

**Ancillaries:**            **Air purge solenoid valve**  
                                 **Special test weight**

**Sensor:**                  **Single point load cell sized account to application**

**Electronics:**          **Flow Force Model XR Controller/Integrator**

**Patent:**                  **Australian Patent No 602246**

# FLOW FORCE TECHNOLOGIES PTY LTD

## IMPACT WEIGHER

### CUSTOMER LIST – NORTH AMERICA

ORGANISATION Location	QTY	SERIES/MODEL	APPLICATION	DATE	
<b>Bay Shore Steel</b> Missouri, USA	1	3/300		12/95	*
<b>Cargill Fertiliser</b> Florida, USA	1	3/300CX	Fertiliser	7/95	*
<b>Colorado Silica Sand</b> Colorado, USA	1	3/300	-	11/95	*
<b>Delta Ducon Int'l</b> Pennsylvania, USA	1	2/25	-	11/95	*
<b>Frehner Construction</b> Nevada, USA	4	3/50CX	Cement	7/95	*
<b>Holnam Cement</b> Iowa, USA	1	3/300CX	Cement	1/95	
<b>Lone Star Industries</b> Oklahoma, USA	2 1	3/300 CX 4/450CX	Cement Cement	12/94	`
<b>Milhart Cons</b> Georgia, USA	1	3/300	-	3/96	*
<b>Riceland Foods</b> Arizona, USA	1	3/300	-	10/95	*
<b>Sherritt</b> Alberta, CANADA	1	1/500SX	Fertiliser	1/95	
<b>Unimin Corp</b> Oklahoma, USA	1	3/175	-	6/96	*
<b>Southern Ionics</b> Georgia, USA	4	2A/100	Mineral Sands	4/14	
<b>Southern Ionics</b> Georgia, USA	1	2A/100	Mineral Sands	5/15	
<b>Sugar Technology</b> Texas USA	1	3BM/100	Refined Sugar	1/19	

\*Manufactured in USA under license to Flow Force Technologies

IN-MOTION WEIGHING & CONTROL  
BULK SOLIDS AND POWDERS