



MITCHELLS



PROCESS AND PRODUCT  
HANDLING SPECIALISTS

  
MITCHELLS  
EUROPE

# BULK FLOW CONVEYORS

DESIGN & FEATURES  
SAFETY & QUALITY  
CAPACITIES

Complete conveying solutions across a range of industries.

# Bulk Flow Conveyors

## Design & Features

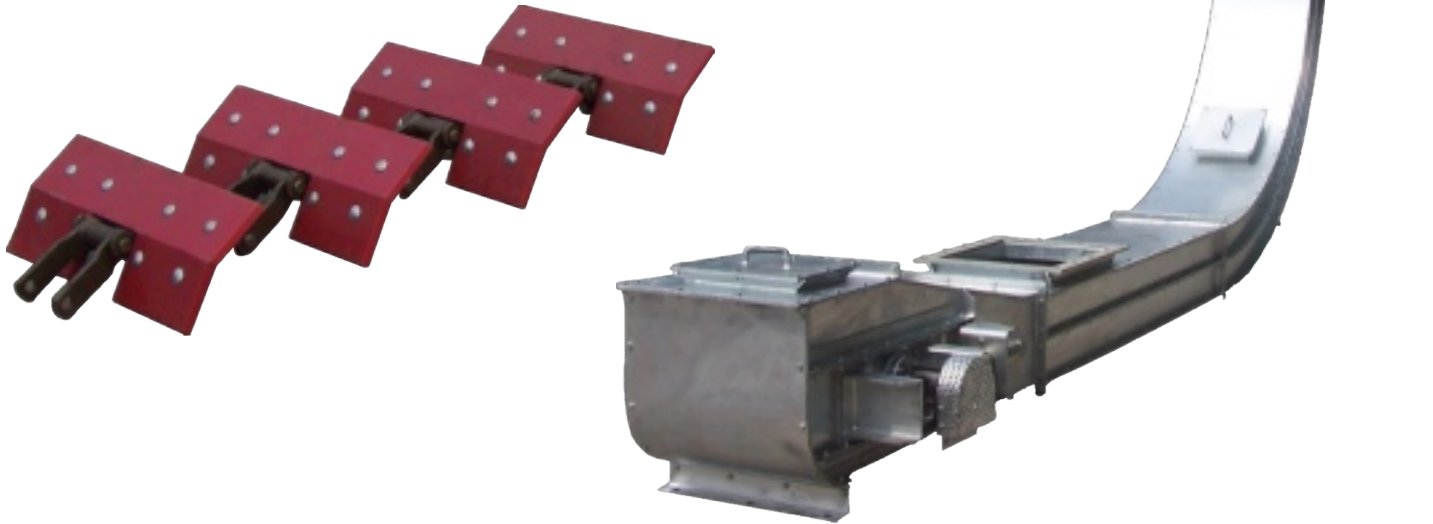
- Up to 1,000 m<sup>3</sup>/hr. capacity in standard models
- Up to 90 degree incline angle
- Heavy duty construction, Mild or Stainless steel, Painted or Galvanised finish
- Head and tail sprockets are Split design for ease of maintenance
- Tail sections “rounded” to reduce material accumulation
- Telescopic tail section for chain tension adjustment available as option
- Welded Steel (WH Series) / DIN / ISO / BS / M series and Drop forge chain styles available
- Bottom, Divider and bolt in side plates can be supplied in AR200 - AR500 to increase conveyor life
- Vapour tight option for Extractor and DT Discharge available



# Bulk Flow Conveyors

## Safety & Quality

- CE Certified in accordance with test standards EN 618:2002+A1:2010, EN ISO12100:2010
- ATEX approved for use in areas at risk of explosive atmospheres



Model	Flight Size (w x h) mm	Capacity (m3/hr.)							
		Chain speed (m/s)							
		0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
Model 300 x 100	300 x 100	9	18	27	36	45	54	63	72
Model 450 x 125	400 x 125	15	30	45	60	75	90	105	120
Model 500 x 150	500 x 150	23	46	69	92	115	138	161	184
Model 500 x 200	500 x 200	31	62	93	124	155	186	217	248
Model 500 x 250	500 x 250	39	78	117	156	195	234	273	312
Model 600 x 250	600 x 250	47	94	141	188	235	282	329	376
Model 600 x 300	600 x 300	56	112	168	224	280	336	392	448
Model 600 x 350	600 x 350	66	132	198	264	330	396	462	528
Model 750 x 250	750 x 250	59	118	177	236	295	354	413	472
Model 750 x 300	750 x 300	71	142	213	284	355	426	497	568
Model 750 x 350	750 x 350	83	166	249	332	415	498	581	664
Model 900 x 300	900 x 300	86	172	258	344	430	516	-	-
Model 900 x 350	900 x 350	100	200	300	400	500	600	-	-
Model 1050 x 300	1050 x 300	100	200	300	400	500	600	-	-
Model 1050 x 350	1050 x 350	117	234	351	468	585	702	-	-
Model 1050 x 400	1050 x 400	134	268	402	536	670	804	-	-
Model 1050 x 450	1050 x 450	150	300	450	600	750	900	-	-
Model 1050 x 500	1050 x 500	167	334	501	668	835	1002	-	-
Model 1200 x 300	1200 x 300	115	230	345	460	575	-	-	-
Model 1200 x 350	1200 x 350	134	268	402	536	670	-	-	-
Model 1200 x 400	1200 x 400	153	306	459	612	765	-	-	-
Model 1200 x 450	1200 x 450	172	344	516	688	860	-	-	-
Model 1200 x 500	1200 x 500	191	382	573	764	955	-	-	-

\* Conveyor capacities based on 90% filling

\* Table is Standard sizes, customer sizes to meet customers requirements can be designed and manufactured



# Conveyor Chains & Sprockets

Mitchells offers the following chain styles as standard:

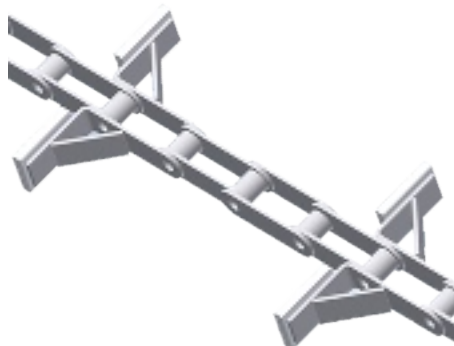
- WHX series chain up 920kN UTS
- DIN 8165/8167 chain up to 900kN UTS
- Drop Forge chain up to 600kN UTS
- Single / Double & Triple strand as chain pull requires

## Welded Steel Chain



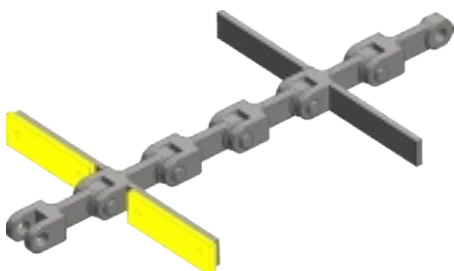
	U.T.S (kN)	U.T.S (lbs)	Pitch (mm)
<b>WHX78</b>	107	24,100	66.3
<b>WHX124</b>	204	45,800	101.6
<b>WHX132</b>	378	84,900	153.7
<b>WHX150</b>	580	130,300	153.7
<b>WHX155</b>	650	146,000	153.7
<b>WHX157</b>	660	148,200	153.7
<b>WS159</b>	908	203,900	155.6

## DIN 8165/8167 series Chain



	U.T.S (kN)	U.T.S (lbs)	Pitch (mm)
<b>M40</b>	40	9,000	63 to 250
<b>M56</b>	56	12,600	63 to 250
<b>M80</b>	63	14,200	80 to 250
<b>M112</b>	112	25,200	80 to 250
<b>M160</b>	160	36,000	100 to 250
<b>M224</b>	125	28,100	100 to 250
<b>M315</b>	315	70,800	160 to 250
<b>M450</b>	450	101,100	160 to 250
<b>M630</b>	630	141,500	160 to 250
<b>M900</b>	900	202,100	160 to 250

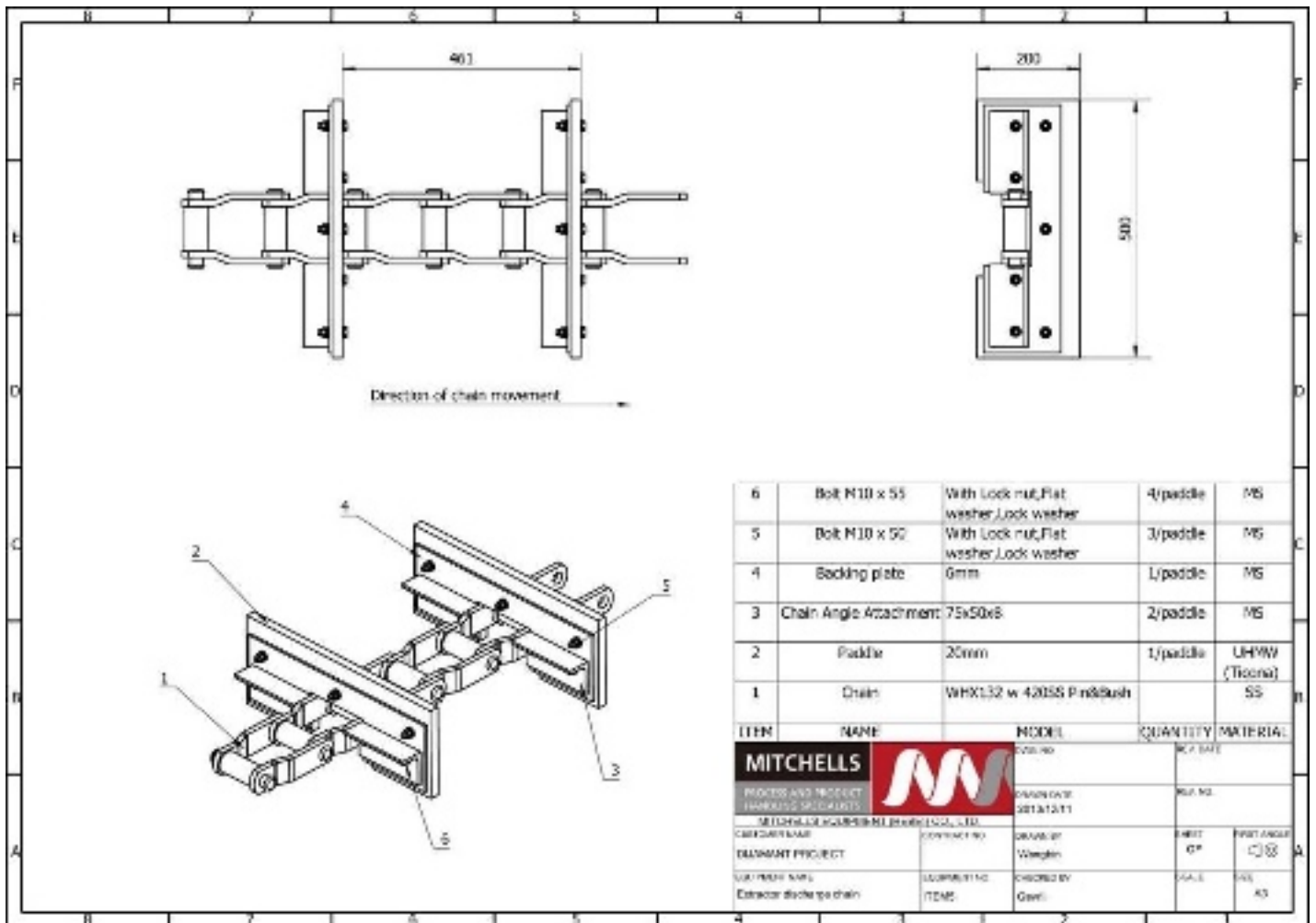
## Drop Forge Chain



	U.T.S (kN)	U.T.S (lbs)	Pitch (mm)
<b>102LA</b>	150	33,700	102
<b>102NA</b>	180	40,500	102
<b>125NA</b>	200	44,900	125
<b>142LA</b>	250	56,200	142
<b>142NA</b>	300	67,400	142
<b>142HA</b>	450	101,100	142
<b>142HAD</b>	600	134,700	142
<b>175NA</b>	520	116,800	175
<b>200NA</b>	600	134,700	200
<b>250NA</b>	700	157,200	250




# Conveyor Chains & Sprockets



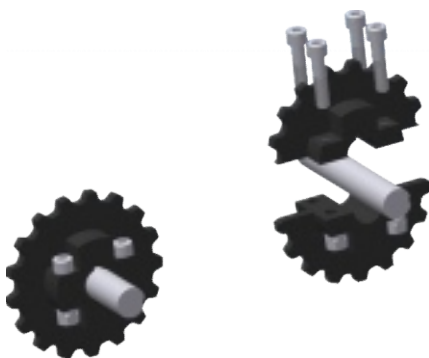
Technical drawing showing a conveyor chain assembly. The drawing includes a side view with a dimension of 461 and a top view with dimensions 200 and 500. A note indicates the 'Direction of chain movement' with an arrow pointing right. A detailed view of the chain link assembly is shown with numbered callouts 1 through 6.

ITEM	NAME	MODEL	QUANTITY	MATERIAL
6	Bolt M10 x 55	With Lock nut, Flat washer, Lock washer	4/paddle	MS
5	Bolt M10 x 50	With Lock nut, Flat washer, Lock washer	3/paddle	MS
4	Backing plate	6mm	1/paddle	MS
3	Chain Angle Attachment	75x50x8	2/paddle	MS
2	Paddle	20mm	1/paddle	LHMW (Ticona)
1	Chain	WHX132 w 420SS Pin&Bush		SS

<b>MITCHELLS</b>		COL NO	REV DATE	
PROCESS AND PROJECT	MANAGER	DATE	REV NO	
PROJECT NAME	CONTRACT NO	DRAWN BY	DATE	PART ANGLE
DESIGNER PROJECT	DATE	WGTG	0*	0*
APPROVAL NAME	DATE	CHECKED BY	SCALE	REV
Extractor discharge chain	ITEM	Gavin		A3

## Engineered Sprockets

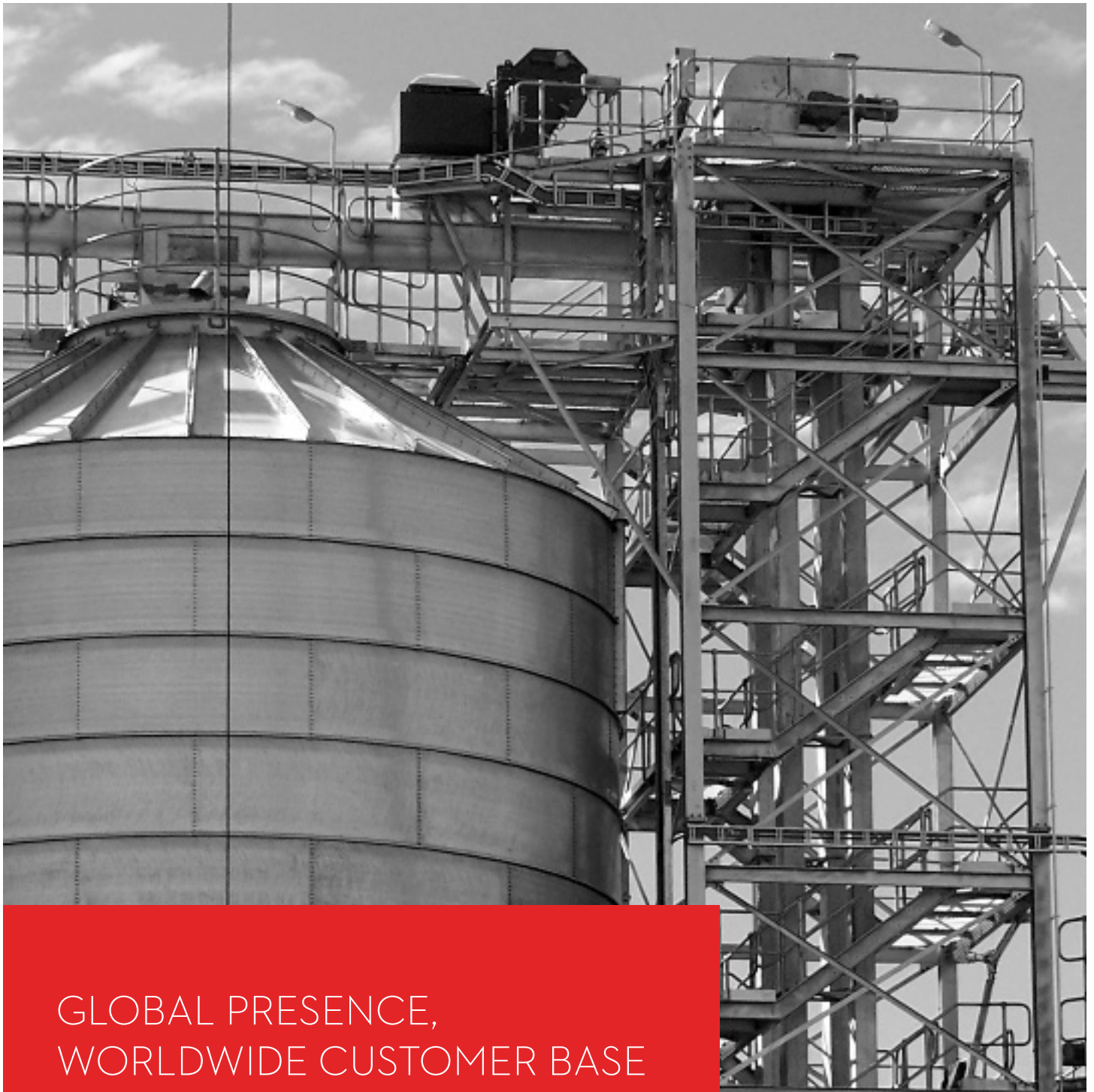
- Split sprockets for WH / DIN / ISO / BS / M series chains
- Replaceable segmented teeth sections for Drop Forge style chain



Engineered split sprocket



Segmented teeth sprocket



GLOBAL PRESENCE,  
WORLDWIDE CUSTOMER BASE



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