



## **TRIO ENGINEERED PRODUCTS**

**QUALITY & VALUE IN MINERAL PROCESSING EQUIPMENT**



### **TRIO Horizontal Shaft Impact Crushers**

### **Rugged Primary and Secondary Jaw Crushers**

TRIO offers two configurations of impact crushers: the APP Series for high-production primary and recycling applications, and the APS Series for high production secondary or recycling applications. All models are available as bare units, and as stationary and portable configurations.

The machines are all equipped with solid rotors in either 2, 3 or 4 row blow bar configurations. These extra-heavy duty solid rotor units provide the mass and strength necessary to crush feed material up to 36". Comparisons with other brands will show that TRIO crushers are among the most heavy-duty machines available. Important features to consider are: bearing size, shaft diameter, total machine weight and blow bar weight..

**Comparison with other brands shows that TRIO crushers are among the most heavy-duty machines available.**

# TRIO Horizontal Shaft Impact Crushers



## Key Features

Versatile selection satisfies most applications and operator preferences

Routinely installed in stationary and portable crushing systems

Extra heavy duty solid rotor construction

Two, three and four-row configurations

Hydraulic adjustment mechanisms for primary and secondary curtains

Operator friendly centrifugal wedge system

Rotor designed to minimize likelihood of catastrophic damage by blow bar breakage

Greased oversize bearings

Hydraulically operated hoods

Blow bars available in manganese and various compositions of chrome steels

Improved service life of critical components

Lower maintenance & operating costs

**Primary & secondary  
hard rock crushing**

**Mixed demolition  
debris**

**Crushed or broken  
concrete**

**Asphalt**

**River rock**

**Industrial applications**

MODELS	ROTOR SIZE		POWER		WEIGHT		SPEED	CAPACITY
	INCH	MM	HP	KW	LBS	KG	RPM	TPH
APP4354	43"x54"	1100x1370	250	160-200	38500	17500	350-600	200-350
APP5148	51"x48"	1295x1220	300	200-250	48500	22050	350-600	200-500
APP5560	55"x60"	1400x1525	500	315-355	56595	25665	350-600	375-700
APP6384	63"x84"	1600x2130	350x2	315x2-355x2	101800	46273	350-500	500-1050
APP8084	80"x84"	2030x2130	1400	1000-1200	26756	59000	250-400	600-2000
APS3030	30"x30"	760x760	75	50	9218	4190	700-1000	Varies
APS4034	40"x34"	1015x865	150	90-110	20730	9400	450-700	100-250
APS4054	40"x54"	1015x1370	250	132-160	29110	13200	450-700	120-300
APS5148	51"x48"	1295x1220	300	200-250	40700	18500	450-650	160-350
APS5160	51"x60"	1295x1525	350	250-315	48800	22130	450-650	200-400
APS6084	60"x84"	1525x2135	350x2	400-250x2	93760	42620	300-500	320-600



## Primary Impact Crushers

Open Circuit Maximum Capacity (TPH)											
D max d 90 <	Inch-MM Inch-MM	24"(600)		32"(800)			40"(1000)				
		4"-100	8"-200	4"-100	8"-200	10"-250	4"-100	8"-200	10"-250	12"-300	
Average Impact work Index - 18	APP4354	190	300								
	APP5148	200	320	220	320	350	200	250	300	350	
	APP5160	250	400	280	400	430	250	280	350	430	
	APP5184	350	550	400	570	600	300	350	400	600	
	APP6060	380	500	480	660	510	320	390	460	600	
	APP6084	525	700	480	660	700	450	550	650	850	
	APP6096	600	800	550	750	800	510	630	740	970	
Average Impact work Index - 14	APP4354	250	360	220	320						
	APP5148	280	400	240	360	400	240	280	360	400	
	APP5160	350	500	300	450	500	300	350	450	500	
	APP5184	500	700	400	600	700	400	500	600	700	
	APP6060	400	600	400	540	650	450	500	600	720	
	APP6084	700	840	650	750	900	620	700	840	1000	
	APP6096	800	960	740	860	1030	720	800	960	1150	

Product Gradations (Percent Passing)											
d 90= Inch-MM	4" 100MM	6" 150MM	8" 200MM	10" 250MM	12" 300MM	4" 100MM	6" 150MM	8" 200MM	10" 250MM	12" 300MM	
>12"(300)				100	100				100	100	
12"(300)			100	94	90			100	95	90	
10"(250)		100	95	a	82		100	96	90	82	
8"(200)		96	90	82	75		98	90	82	75	
7"(175)		93	80	75	62		94	80	75	62	
6"(150)	100	90	70	65	55	100	90	70	65	55	
5"(125)	96	82	60	55	42	96	85	60	55	42	
4"(100)	90	68	50	45	30	90	70	50	45	30	
3 1/8 "(80)	70	58	42	37	28	78	60	42	37	28	
2 1/2"(63)	55	42	35	30	20	65	48	35	30	20	
2"(50)	40	32	28	23	15	48	40	28	23	15	
1 9/16"(40)	30	25	15	18	10	40	32	22	18	10	
1"(25)	20	15	8	5	3	30	25	15	10	4	
4#(4.75)	5	3	1	0	0	10	8	5	3	0	



## Secondary/Recycling Impact Crushers

Open Circuit Maximum Capacity (TPH)												
D max d 90 <	Inch-MM	24"(600)		32"(800)			40"(1000)					
		4"-100	8"-200	4"-100	8"-200	10"-250	4"-100	8"-200	10"-250	12"-300		
Average Impact work Index - 18	APS4034	100	170	75	150	60	100					
	APS4054	130	250	120	200	110	180					
	APS4334	145	275	132	220	120	200	110	165			
	APS5148	190	280	160	270	150	230	120	200	110	200	220
	APS5160	250	350	220	350	200	300	150	250	140	220	280
	APS5180											
	APS5184	350	480	300	450	270	400	200	350	200	300	400
Average Impact work Index - 14	APS4034	120	200	100	180	80	150	70	130	60	100	150
	APS4054	180	300	150	260	120	220	100	200	85	150	200
	APS4354	230	320	210	300	200	280	160	240	120	200	280
	APS5148	230	320	210	300	200	280	160	240	120	200	280
	APS5160	300	400	280	380	250	350	200	300	150	250	350
	APS5180											
	APS5184	400	550	350	500	320	450	250	400	200	320	450

Product Gradations (Percent Passing)															
d 90= Inch-MM	58" 16MM	34" 20MM	1" 25MM	1 3/16" 30MM	1 9/16" 40MM	2" 50MM	2 3/8" 60MM	58" 16MM	34" 20MM	1" 25MM	1 3/16" 30MM	1 9/16" 40MM	2" 50MM	2 3/8" 60MM	
>4" (100)															
4" (100)							100							100	
3 1/8" (80)						100	97						100	97	
2 1/2" (63)					100	95	92					100	95	92	
2 3/8" (60)				100	98	93	90				100	98	93	90	
2" (50)				97	94	90	75				97	94	90	80	
1 9/16" (40)			100	93	90	74	65			100	93	90	80	70	
1 3/16" (30)		100	95	90	76	58	55		100	95	90	80	70	60	
1" (25)	100	95	90	78	62	50	47	100	95	90	80	71	60	54	
3/4" (20)	94	90	78	65	50	42	40	94	90	82	72	62	53	47	
5/8" (16)	90	76	65	52	42	40	35	90	82	71	63	53	47	39	
1/2" (12.5)	75	62	55	42	38	35	30	80	73	62	54	46	40	32	
3/8" (10)	60	50	45	35	33	30	24	68	63	54	45	40	33	25	
5/16" (8)	50	40	38	30	29	26	20	55	52	46	40	35	28	20	
1.4" (6.3)	40	30	30	26	22	20	15	48	42	38	33	30	22	17	
4# (4.75)	30	20	26	20	15	12	7	40	36	30	25	20	15	10	
6# (3.4)	20	16	14	10	7	6	3	33	30	24	20	16	12	8	
8# (2.4)	15	11	9	5	4	3	1	25	20	16	13	11	8	6	
16# (1.2)	8	6	4	2	2	1		13	10	8	7	6	4	2	
30# (0.6)	4	2	1	1				7	5	4	3	2	1		
50# (0.3)	1							4	3	1					
100# (0.16)								2	1						

### TRIO Builds Standard and Customized Solutions for Your Application Needs.

Whether it's feeders, crushers, washers, screens, conveyors, or complete plants, TRIO is known around the world for innovative engineering and unmatched value. Built to withstand the most demanding mine and quarry environments, TRIO helps companies meet their operational requirements on time and on budget.

TRIO sets a standard for responsiveness and flexibility in the industry, building the kind of relationships that the competition just can't match. Contact TRIO today to find out more about our range of durable, productive, highly-efficient and cost-effective aggregate and mining equipment.

