



Our range of heavy duty Trio[®] jaw crushers are engineered to accommodate even the hardest of materials.



At Weir Minerals we are committed to developing innovative and high performance products that can be relied upon in even the most demanding of environments.

The primary stage of crushing is one of the most demanding jobs in the comminution circuit. This is why our jaw crushers are among the hardest working products across our entire Trio® range.

We offer some of the heaviest jaw crushers in the industry, giving them advanced mechanical capabilities. The rugged main frame delivers reliable crushing performance, and the chamber geometry optimises wear parts serviceability. Design flexibilty ensures that all our jaw crushers can be easily included in our modular plants.

Comprehensive solutions

We partner with you to understand your working environment, capacity, product gradation, and project schedule to deliver customised solutions unique to your project.

Our solutions include machine model selection, operating simulation, and on-site layout drawings.

Global service and support

We are renowned for our design, engineering and manufacturing capabilities, and deliver unsurpassed service and support. Whether you order a complete system, single machine or a spare part, our skilled service teams make Weir Minerals a valued partner in the mining and aggregate industries. We're there for you every step of the way.

We also provide professional on-site training for your personnel to promote smooth, safe and efficient plant operations and maintenance

Simplicity of design and rugged construction have made all of our Trio[®] jaw crushers ideal for all primary crushing applications.



Design features

- Heavy construction
- Long crushing chamber
- Hydraulic adjustment of Closed Side Settings (CSS)
- Heavy duty manganese or alloy jaw dies
- Bolted construction
- Hydraulic toggle relief system (CTHT series)

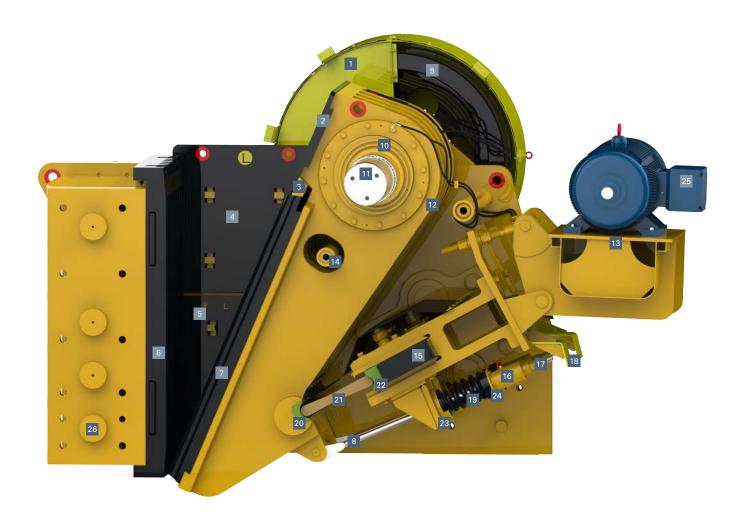
Innovative and durable design

The fixed jaw dies of our jaw crusher range incorporate a wrap-around design to protect the frame and eliminate the need for additional wedges.

Steep nip angles provide an aggressive bite at the jaw crusher opening. The maximised rotating speed and flywheel mass, together with an optimised toggle and nip angle, help to increase production and reduction performance. This allows the crusher to run smoothly and steadily, improving the productive service life of all mechanical and hydraulic components.

The crushing performance of our Trio® jaw crushers is further enhanced by an extra-large, forged steel, overhead eccentric shaft, seated in closely spaced, spherical, self-aligning roller bearings.

The modular design of our jaw crushers provides extra value by reducing transportation and installation costs, especially for underground mining projects.



Trio® CT Series Jaw Crusher Product Features

- 1 Flywheel safety guard
- 2 Pitman protection plate
- 3 Swing jaw die wedge
- 4 Upper cheek plate
- 5 Lower cheek plate
- 6 Fixed jaw die
- 7 Swing jaw die
- 8 Tension rod
- 9 Flywheel
- 10 Frame bearing assembly

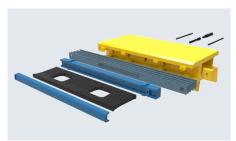
- 11 Eccentric shaft
- 12 Pitman assembly
- 13 Pivot motor base assembly
- 14 Cross support
- 15 Adjustment wedges
- 16 Hydraulic cylinder
- 17 Jam nut
- 18 Guard plate
- 19 Tension rod spring
- 20 Lower buffer

- 21 Toggle plate
- 22 Upper buffer
- 23 Lower spring keeper
- 24 Upper spring keeper
- 25 Electric motor
- 26 Frame pin

Our Trio[®] jaw crushers feature a heavy-duty frame designed to deliver high value solutions, making them ideal for surface and underground primary applications.

Product range

Our Trio® CT and CTHT series jaw crushers are available in three different size ranges designed to deliver efficient, reliable and economical production. Supplied as either single machines, or combined with other Trio® crushers, screens, washers or conveyors, we provide customisable solutions for both portable and modular plants.



CTHT series

Our latest innovation in jaw crusher technology is the Trio® CTHT series crusher. This product features the same rugged design as our CT series jaw crusher, with the addition of a hydraulic toggle relief system (pictured below).

This innovative, built-in system is designed to protect the system from overloads caused by uncrushable material.

The hydraulic toggle used in our Trio® CTHT crusher is designed to be a reliable and safe relief system, without unnecessary complexity.



Top: Manual hydraulic adjustment system.

Bottom: Push button hydraulic adjustment system.





CT1030-CT3054 models

With the footprint of a compact crusher, our Trio® CT1030 - CT3054 jaw crushers are suitable for crushing a range of processing materials including asphalt, limestone and iron ore. The machines feature a low carbon steel, welded main frame. The rib-reinforced end plates are thermally stress-relieved to deliver an extra-heavy duty main frame. The discharge setting adjustment benefits from a push-button hydraulic cylinder and manual shim. With an economical running cost and easy operation, our Trio® CT1030 - CT3054 jaw crushers are ideal for small to medium size quarrying or mining applications. (CT3054 pictured below).



CT3254 - CT6080 models

With large feed openings and eccentric throw, our Trio® CT3254 - CT6080 jaw crushers are suitable for crushing large size materials in bulk quantities, including tough ores, concrete recycling and river stones. In their bolted or welded construction, the machines feature a low carbon steel, welded main frame together with a rugged eccentric shaft, high strength steel side plates, and cast front walls. The discharge setting adjustments are hydraulically actuated with a power control unit. Hydraulic nuts, with an adjustment lever, are designed to provide an operator-friendly adjustment interface. (CT4254 pictured below).

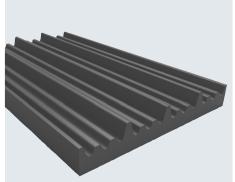


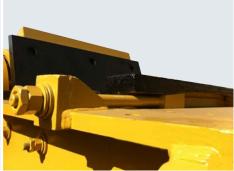
Jaw Crushers Heavy Duty Main Frame

- 1 Cast steel front wall
- 2 Structural steel side wall plate
- 3 Pitman saddle
- 4 Cross support
- 5 Cast steel rear wall
- 6 Structural steel side wall plate
- 7 Main frame dowel pins
- 8 Main frame bolts
- 9 Main frame locking nuts



Our Trio[®] CT and CTHT series jaw crushers are easy to maintain, and are designed to deliver minimised downtime and maximised performance.







Top Left: Jaw die options vary by model.

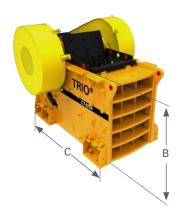
Top Right: Tension wedges for fixed jaw dies.

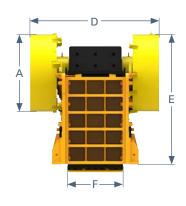
Bottom Left: Advanced cheek plate bolted

system with bevelled head mounting bolts.

Simple wear parts replacement

- Easy access threaded side tensioning wedges for fixed jaw dies
- An advanced cheek plate bolted system reduces the amount of time spent changing wear parts
- Reversible jaw dies provide extended wear life
- Fixed jaw dies incorporate a wrap-around design to protect the frame and to eliminate the need for additional wedges





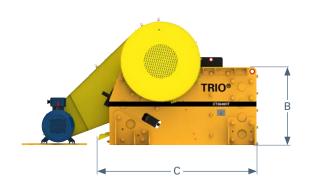
CT Series Produc	ct Range					
MODEL	Α	В	С	D	Е	F
	mm	mm	mm	mm	mm	mm
CT1030	1,160	770	1,912	1,790	1,500	835
CT1040	1,160	770	1,964	2,040	1,500	1,085
CT1048	1,160	770	1,984	2,310	1,325	1,285
CT1252	1,170	860	2,117	2,600	1,570	1,385
CT2036	1,310	1,258	2,280	2,020	2,100	990
CT2436	1,630	1,545	2,596	1,910	2,550	990
CT2645	1,310	1,465	2,485	2,380	2,200	1,194
CT3042	1,720	1,895	3,073	2,295	2,900	1,155
NCT3042	1,285	1,715	2,557	2,290	2,350	1,130
CT3054	1,540	1,640	2,781	2,700	2,560	1,436
CT3254	1,760	1,670	3,034	2,850	2,660	1,436
CT3648	1,810	1,902	3,753	2,890	3,065	1,310
CT4254	1,900	2,254	4,102	3,230	3,290	1,482
CT4763	2,120	2,715	4,585	3,675	3,880	1,730
CT6080	2,960	3,132	6,335	4,170	4,800	2,150

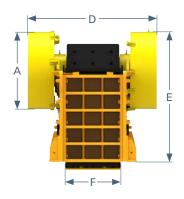
CT	Carion"	Funical	Dhyoical	Properties

MODEL	FEED OPENING	WEI	GHT	CS	SS	CAP	ACITY	SPEED	SPEED FEED SIZE		POWER	
	mm x mm	kg	lbs	mm	in	mtph	stph	rpm	mm	in	kw	hp
CT1030	250×750	6,000	13,228	25-90	1-3.6	23-60	25-65	300	210	8.4	30	40
CT1040	250×1,000	6,911	15,236	25-90	1-3.6	30-79	30-85	300	210	8.4	37	50
CT1048	250×1,200	8,258	18,206	25-90	1-3.6	35-95	40-105	300	210	8.4	55	75
CT1252	320×1,300	10,800	23,810	25-90	25-90 1-3.6 50-130 55-1		55-140	265	250	10	55	75
CT2036	500×900	11,700	25,794	50-125	2-5	80-220	85-240	250	400	16	55	75
CT2436	600×900	14,800	32,628	75-190	3-7.6	120-350	130-385	250	500	20	75	100
CT2645	660×1,140	18,000	39,683	75-180	3-7.2	155-500	170-600	280	530	21.2	90	125
CT3042	750×1,060	24,900	54,895	75-180	3-7.2	200-500	220-550	250	630	25.2	110	150
NCT3042	750×1,060	20,321	44,800	75-200	3-8	150-500	165-550	270	630	25.2	110	150
CT3054	750×1,350	24,100	53,131	75-200	3-8	240-570	265-625	260	600	24	132	175
CT3254	800×1,370	28,913	63,742	75-180	3-7.2	240-570	265-625	250	650	26	132	175
CT3648	900×1,200	43,321	95,506	100-250	4-10	300-850	330-935	225	750	30	160	200
CT4254	1,060×1,370	58,152	128,203	125-250	5-10	400-900	440-990	220	900	36	200	300
CT4763	1,200×1,600	81,620	179,941	150-300	6-12	520-1,180	570-1,300	200	1,020	40.8	250	350
CT6080	1,500×2,000	148,000	326,284	175-310	7-12.4	675-1,575	740-1,730	200	1,300	52	400	500

NOTE: Results may vary depending on hardness of materials, feed material gradation, moisture content, friability, RPM required power installed, and application. Please consult Weir Minerals for specific capacity for your application.







CTHT Series Product Range													
MODEL	А	В	С	D	Е	F							
	mm	mm	mm	mm	mm	mm							
CTHT2036	1,310	1,258	2,474	2,020	2,100	990							
CTHT2436	1,630	1,510	2,651	1,910	2,550	990							
CTHT2645	1,310	1,465	2,768	2,380	2,200	1,194							
CTHT3042	1,720	1,895	3,110	2,295	2,900	1,155							
CTHT3054	1,540	1,640	2,800	2,700	2,560	1,436							
CTHT3254	1,760	1,670	3,150	2,850	2,660	1,436							
CTHT3648	1,810	1,902	3,714	2,890	3,065	1,310							
CTHT4254	1,900	2,254	4,284	3,230	3,290	1,482							
CTHT4763	2,120	2,715	4,615	3,675	3,880	1,730							
CTHT6080	2,960	3,132	6,435	4,170	4,800	2,150							

CTHT Ser	CTHT Series Typical Physical Properties													
MODEL	FEED OPENING	WEIGHT		CSS		CAPA	ACITY	SPEED	FEED SIZE		POWER			
	mm x mm	kg	lbs	mm	in	mtph	stph	rpm	mm	in	kw	hp		
CTHT2036	500×900	11,973	26,396	50-112	2-4.5	80-210	90-230	250	400	16	55	75		
CTHT2436	600×900	14,721	32,454	70-190	3-7.6	110-350	120-385	250	500	20	75	100		
CTHT2645	660×1,140	18,319	40,386	115-220	4.5-8.8	155-500	170-550	280	530	21.2	90	125		
CTHT3042	750×1,060	25,200	55,556	75-180	3-7.2	200-500	220-550	250	630	25.2	110	150		
CTHT3054	750×1,350	25,100	55,336	75-200	3-8	240-570	265-625	260	600	24	132	175		
CTHT3254	800×1,370	30,200	66,580	75-180	3-7.2	240-570	265-625	250	650	26	132	175		
CTHT3648	900×1,200	46,309	102,094	100-250	4-10	300-850	330-935	225	750	30	160	200		
CTHT4254	1,060×1,370	61,102	134,707	125-250	5-10	400-900	440-990	220	900	36	200	300		
CTHT4763	1,200×1,600	84,120	185,453	150-300	6-12	520-1,180	570-1,300	200	1,020	40.8	250	350		
CTHT6080	1,500×2,000	152,000	335,102	175-310	7-12.4	675-1,575	740-1,730	200	1,300	52	400	500		

NOTE: Results may vary depending on hardness of materials, feed material gradation, moisture content, friability, RPM required power installed, and application. Please consult Weir Minerals for specific capacity for your application.



CT and CTHT Jaw Crusher Discharge Gradations (hard, average)																										
PRODUCT										SF	PECIFI	ED C	LOSE	D SID	E SE	TTING	3									
SIZE (mm/in)	38 m 1.5	,	51 n 2 i		64 n 2.5		76 r 3.0		89 n 3.5	nm/ in		mm/) in	114 i 4.5			mm/ in	152 6		178 7		203 8		229			mm/ in
	hard	avg	hard	avg	hard	avg	hard	avg	hard	avg	hard	avg	hard	avg	hard	avg	hard	avg	hard	avg	hard	avg	hard	avg	hard	avg
483/19																									100	
457/18																							100		99	
406/16																					100		98		96	
381/15																					99		97		95	
356/14																			100		98		96		92	
330/13																			99		96		93		89	100
305/12																	100		97		95		90	100	84	96
279/11																	99		96		91	100	85	97	78	91
254/10															100		97		93	100	87	98	79	91	70	85
229/9													100		98		95	100	88	97	80	92	70	85	60	77
203/8											100		98	100	96	100	90	97	81	92	70	85	60	77	52	70
179/7									100		98	100	96	98	92	97	82	92	70	85	58	76	50	68	45	60
152/6							100		97	100	95	98	90	95	84	93	70	85	57	74	48	65	43	57	39	49
127/5					100		97	100	93	98	87	96	79	90	70	85	55	72	46	62	40	52	36	47	33	39
114/4.5			400		98	400	95	98	88	94	80	89	70	85	60	75	48	62	42	53	37	45	33	39	30	35
102/4			100		96	100	90	97	81	92	70	85	60	75	52	70	43	56	37	45	33	40	29	34	27	29
89/3.5	100		98	100	92	98	82	92 85	70	85	58	73	50	65	45	58	38	48	33	40	29	33	26	28	24	26
76/3		100	95 87	100	84	93	70		57	72	48	62	43 34	55	39	49	33	38	28	32	25	27	23	24	21	22 18
64/2.5				98	70	85	55	72	46	60	40	53		45	33	40	28	34	24	24	22	23	20	20	19	
51/2 44/1.75	90	98	70 58	85 76	52 45	67 58	43 38	56 49	37	47	33 29	36	29	37	27	34	23	29	20 19	18	19 17	18 16	17 15	17 14	16 14	14 13
38/1.5	70	85	48	64	39	49	33	49	28	37	25	33	23	29	21	27	19	23	17	16	15	14	14	13	13	12
32/1.25	55	70	40	55	33	43	28	36	24	33	22	30	20	25	19	24	16	19	14	14	13	13	12	12	11	11
25/1	43	56	33	44	27	36	23	30	20	28	19	26	17	22	16	20	14	17	12	12	11	12	10	11	10	10
19/0.75	33	42	25	34	21	29	19	25	17	22	15	20	14	17	13	16	11	13	10	11	9	10	9	9	8	8
13/0.75	23	33	19	25	16	23	14	19	12	17	11	14	10	13	10	12	9	10	8	8	7	8	7	7	6	 6
10/0.0	20	50	10	20	10	20	1-7	10	12	.,		1-7				12	-		0		,		,	,	0	

CT and C	CT and CTHT Jaw Crusher Capacity Chart														
	CLOSED SIDE SETTING														
MODEL	38 mm/ 1.5 in	51 mm/ 2 in	64 mm/ 2.5 in	76 mm/ 3.0 in	89 mm/ 3.5 in	102 mm/ 4.0 in	114 mm/ 4.5 in	127 mm/ 5 in	152 mm/ 6 in	178 mm/ 7 in	203 mm/ 8 in	229 mm/ 9 in	254 mm/ 10 in		
CT1030	23-36	34-41	44-53	51-60	53-65	-	-	-	-	-	-	-	-		
CT1040	30-44	41-50	53-65	62-73	65-79	-	-	-	-	-	-	-	-		
CT1048	35-53	50-60	64-78	74-88	78-95	-	-	-	-	-	-	-	-		
CT1252	54-68	64-77	82-100	95-113	100-122	109-136	118-154	-	-	-	-	-	-		
CT2036	-	80-92	92-110	110-120	115-135	120-155	145-180	175-220	-	-	-	-	-		
CT2436	-	-	-	110-120	115-135	120-155	145-180	175-220	210-280	-	-	-	-		
CT2645	-	-	-	115-155	150-190	185-225	202-242	234-284	240-330	-	-	-	-		
CT3042	-	-	-	109-145	127-163	190-235	172-240	204-270	285-340	-	-	-	-		
NCT3042	-	-	-	109-145	127-163	190-235	172-240	204-270	285-340	-	-	-	-		
CT3054	-	-	-	-	-	200-260	240-300	280-345	320-415	390-480	470-570	-	-		
CT3254	-	-	-	-	-	200-260	240-300	280-345	320-415	390-480	470-570	-	-		
CT3648	-	-	-	-	-	190-250	225-270	245-315	310-365	350-435	410-495	-	-		
CT4254	-	-	-	-	-	255-300	280-340	320-385	360-455	430-520	495-585	545-650	610-710		
CT4763	-	-	-	-	-	-	-	365-435	410-485	475-545	535-620	600-680	665-755		
CT6080	-	-	-	-	-	-	-	-	-	545-630	620-710	680-775	755-855		

NOTE: All throughput capacities are indicated in metric tons per hour. Capacities are based on material of average competence with a bulk density of 1.6 metric tons per cubic meter. Capacities indicated are neither minimum or maximum capacities. Capacities will vary with feed size, material flow characteristics and material fragmentation characteristics. Proper performance at lowest operating cost is achieved when undersized material is removed prior to crushing.

6/0.25

20

11 15

10

13

9 12

8

11

7 10

7

8 6

7 6

6 5

5 5

4 5

4 4

3





Minerals

www.minerals.weir

