



CMC Chyi Meang
machinery

High Performance Up – Thrust Jaw Crusher

CMC 高性能反向破碎顎碎機

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ZL200810127084.X

JAPAN/EUROPE/INDIA Patent Pending
日 歐盟 印度申請中

Revolutionary Crusher;New Presentation UP-Thrust Jaw Crusher

革命登場、全新發表 反向破碎式顎碎機



Unique outstanding features and high performance

獨特的優異性及高性能



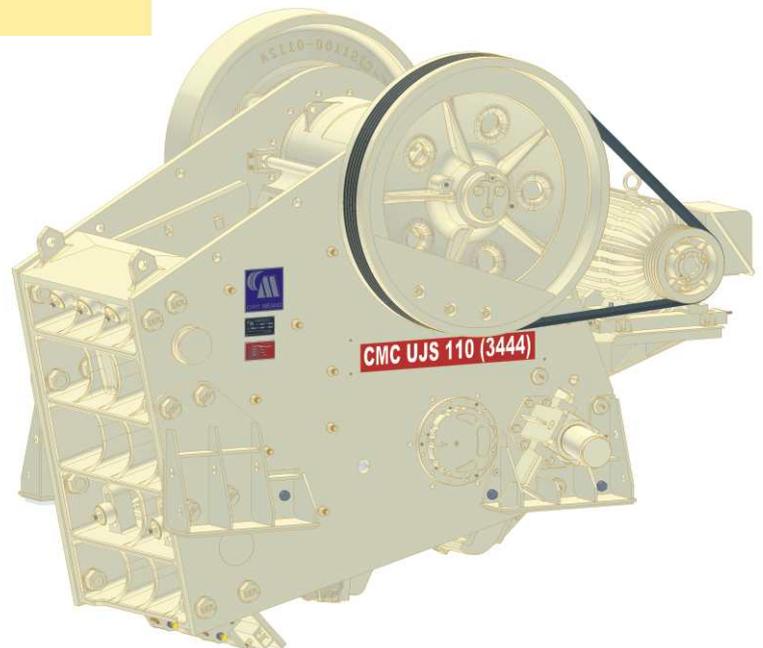
本公司生產近40年岩石及礦山機械，一直以高產能、高性能、堅固耐用著稱，及持續不斷研發創新追求完善，永續經營。

CMC has produced rock crushing/screening equipments for nearly 40 years with name of high capacity, high performance and rock solid durable. By continuous R & D and innovation to pursue perfect, CMC achieves sustainable business running.

此機種擁有5大獨特之優異特性：
It has 5 unique outstanding advantages:

1. 使用動力較同級機種減少約20-25%
Power required decreases 20 - 25% about compared to equivalent models.
2. 產能較同級機種增加約20%
Capacity increases 20% about compared to equivalent models.
3. 受齒使用時數增加約1-2倍（同作業量）
Life time of fixed Jaw plate increases 1-2 times. (in same operation condition)
4. 調整排礦口大小，不須鬆緊拉桿彈簧
No need to loosen and tighten tension rod spring while adjust discharge set.
5. 依使用需要，可調整大或小破碎行程
Adjustable stroke for different material property.

本機種適合於各類應用，固定式，移動式，礦山井內，高海拔礦山等，交通搬運困難處。
It can fit for wide and different kinds of applications, stationary, portable, deep mining well, high sea level quarry and all other difficult transportation areas.



Up – Thrust crushing

反向破碎運動

作業所需動力來自電動機及皮帶輪飛輪之慣性產生動力破碎。

- 新型反向作動，以動齒總成重量下壓破碎可節省動力約20~25%。
 - 動齒下壓破碎，使破碎物不易滑動增強破碎效果，產能增加約20%。
 - 反向破碎動齒的作動角度，符合破碎原理，大大降低磨損率，受齒使用時數可增長約 1~2 倍。
- 上述革命性優異特性，為客戶提供最大的競爭優勢。

The required power for crushing comes from motor and inertia of flywheels.

- New up thrust crushing saves about 20-25% power due to the swing jaw assembly downward crushing action.
- Capacity increases 20% about due to the movable jaw plate downward crushing and increase crushing effect.
- Up thrust crushing action reasonably reduce the rub action on fixed jaw plate and increase the service life time of fixed jaw plate 1-2 times.

These Revolutionary advantages lead edge your business competitiveness.

Automatic discharge set adjustment

破碎間隙自動調整機構

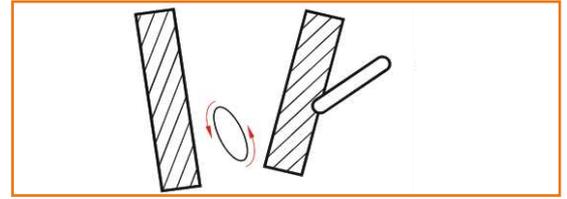
複式油壓缸作動雙楔型塊產生分力推動各零件按順序動作，達到間隙調整的目的，由於連桿獨特組合方式，調整破碎間隙，不需鬆開拉桿彈簧。

Dual-acting hydraulic cylinders pushed or pull twin wedges and cause related parts move in sequence to achieve discharge set adjustment. Thanks to the unique link assembly, discharge set adjustment can be without loosen tension rod spring.

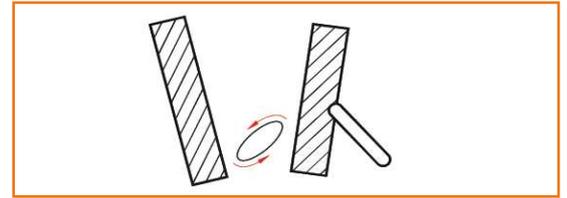
Adjustable stroke by eccentric mechanism

可調整破碎行程的偏心結構

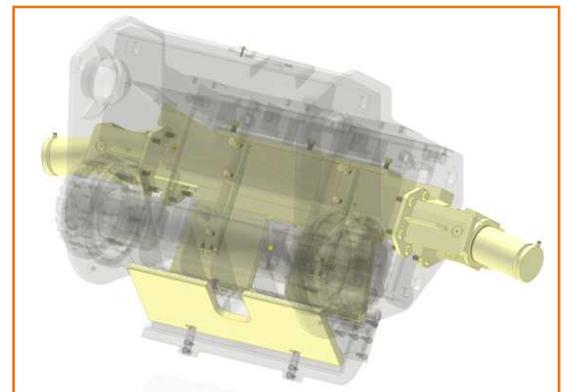
依破碎物之性質可選擇適當之破碎行程，調整方式十分簡單，只須用隨機之特殊工具調整，如右圖偏心套的角度即可改變S板角度從而改變破碎行程。Optimum Stroke can be changed according to material property. The adjustment is very easy by special spanner shipped with crusher to change the angle of Eccentric Sleeve. And then angle of toggle plate changes accordingly and so as stroke.



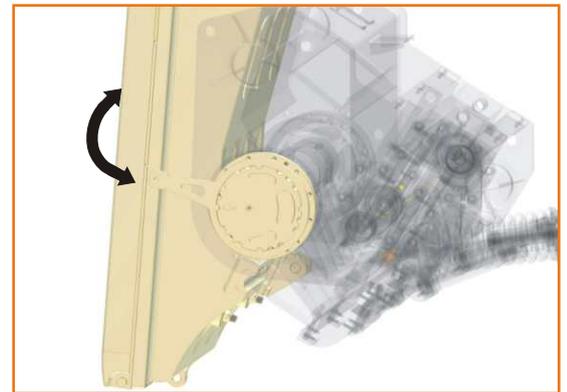
一般傳統型 Down-Thrust Type



反向破碎型 Up-Thrust Type



破碎間隙自動調整機構
Automatic discharge set adjustment



可調整破碎行程的偏心結構
Adjustable stroke eccentric sleeve mechanism

STANDARD 標準型	QUARRY 礦石型	RIVER GRAVEL 溪石型	SUPER TEETH 特殊型	WAVY LIKE RECYCLING 波浪型

Unique outstanding features and high performance

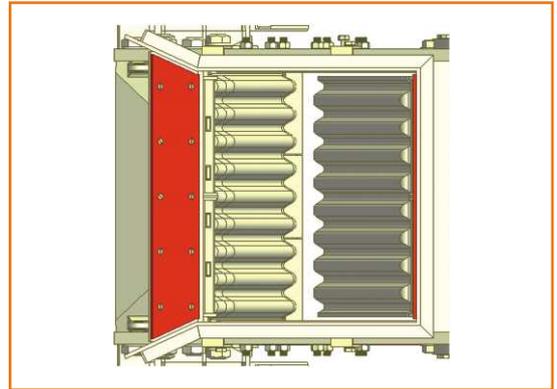
獨特的優異性及高性能

Suitable crusher cavity design

合適之破碎腔口設計

合適之破碎腔口配合入料槽，可避免最少堵料狀況，達到最佳破碎作業流程，入料槽用於有效保護活動座軸承避免破碎物直接撞擊及引導破碎物料進入破碎腔。

The suitable cavity design matched with feed chute avoids bridging of material and reaches best crushing operation. The functions of feed chute keeps Swing Jaw bearings area from material impact effectively and guide material smoothly feeding into crusher cavity.



合適之破碎腔口配合入料槽
Suitable crusher cavity with feed chute

Shock absorption mechanism for material discharge

下料緩衝機構

在落料口下側，安裝一組下料緩衝機構，使破碎物落下時，避免直接衝擊輸送帶，防止損傷。

A shock absorption mechanism is installed at lower lateral side of discharge opening. It reduces direct impact of rock on under conveyors and protects conveyor from damage.



下料緩衝機構
Shock absorption mechanism for material discharge



High quality and reliability

高品質與高信賴度

The most durable bearings

提供最耐用的軸承

UJS系列顎碎機，外軸承採用圓錐內孔軸承配合退卸套，具有與內軸承同等負載能力，而且在裝卸過程中更簡便。

Frame bearings are designed as spherical roller bearings with withdrawal sleeve in UJS series Jaw Crusher. Frame bearings have same load capability as Swing Jaw bearings. It is also easy assembly and disassembly in this design.

Excellent rigidity bearing seat assembly design

高剛性軸承座結構設計

活動座總成採用高質量的鑄鋼件構成，並且在軸承座外圍平均分佈3組支撐桿，相當有效提供機台剛性穩定度，即使在嚴苛應用環境下，UJS系列產品皆能夠提供卓越的強度，可靠性。

The Swing Jaw is made of high quality cast steel and three support rods are designed to be evenly installed on the surrounding of bearing seat, which can provides excellent rigidity of frame. UJS series Jaw Crusher ensures greatest strength and reliability even under the most severe crushing condition.

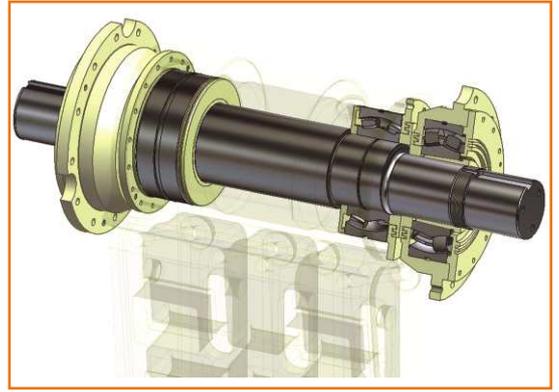
Modular construction design

模組化設計

採用模組化設計和高精度加工組合結構，每個主要部件皆可單獨搬運，至現場組裝完成，特別適合於高海拔礦山、井下、交通運輸困難之場所。

A modular and high precise machining construction enables all major parts can be transported to site separately and assembled into whole. This is especially suitable for high sea level quarry, deep well mining and other transportation difficult areas.

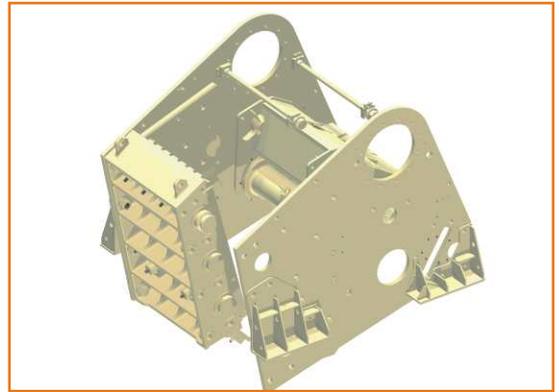




堅固的偏心軸軸承
Large and sturdy eccentric shaft bearings



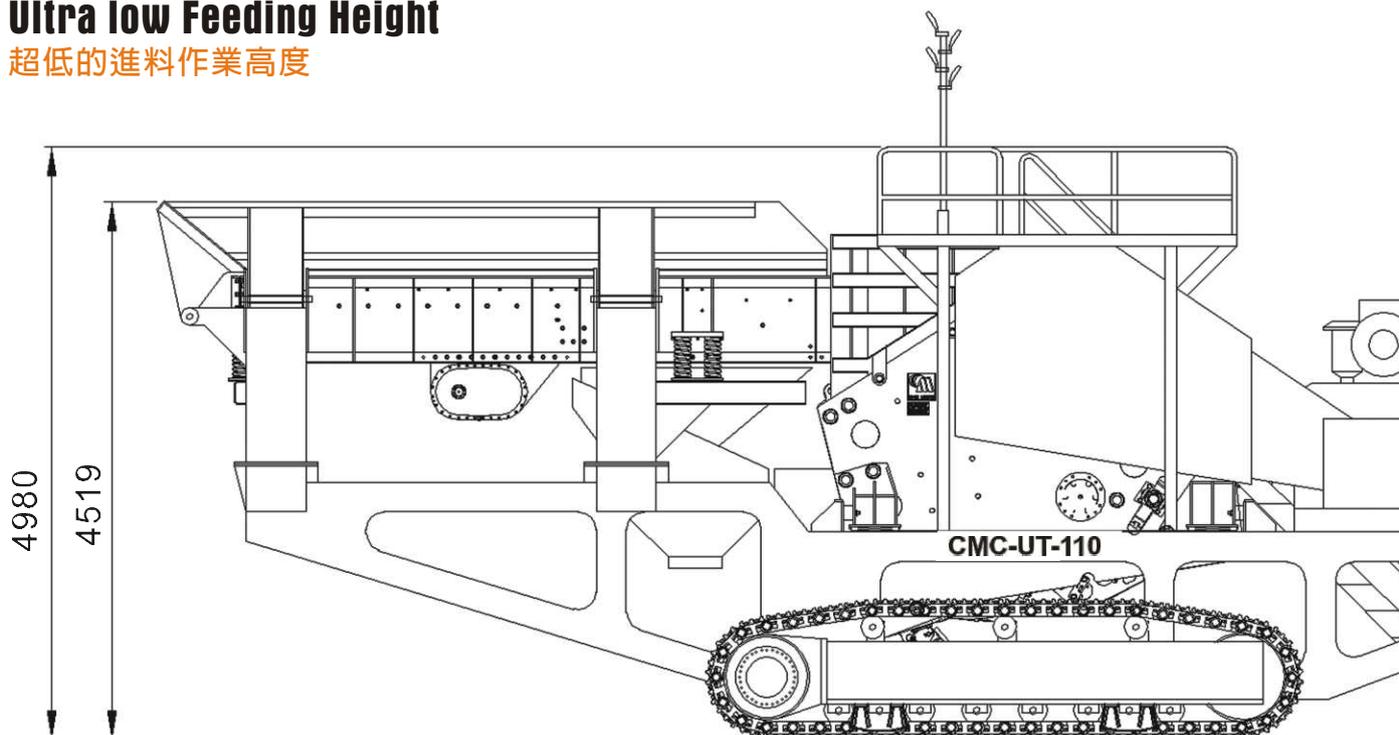
堅固的軸承座總成
Robust bearing seat assembly



模組化設計
The modular construction

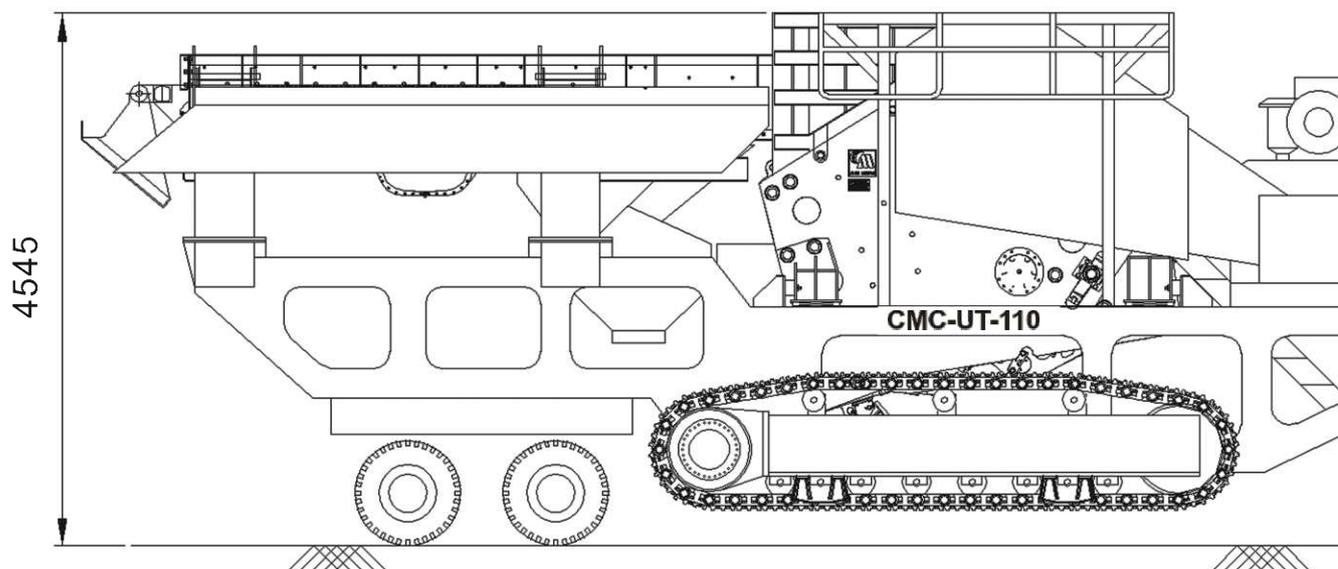
Ultra low Feeding Height

超低的進料作業高度



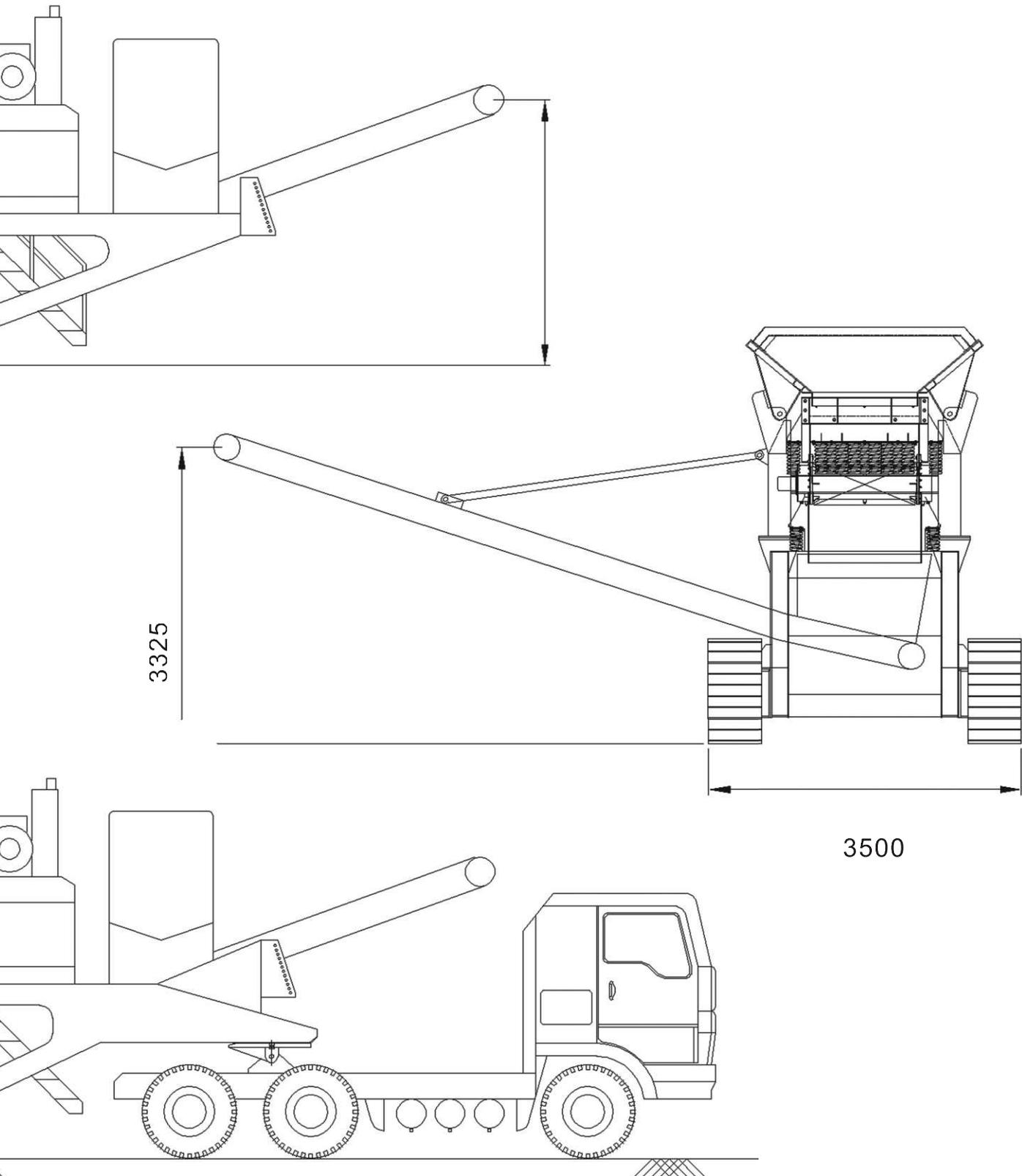
Easy Transportation , Minimum cost

方便搬運，成本最低



Crawler mobile crushing plant

履帶移動式破碎站





Low installation and operation cost

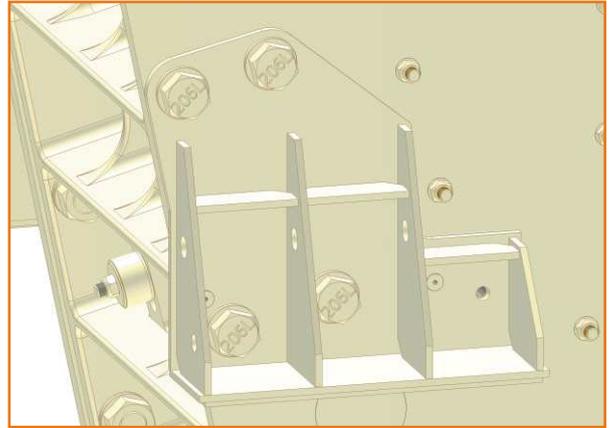
安裝和運行成本低

Jaw Crusher foundation

顎式破碎機基礎

本系列破碎機的橡膠減震裝置和限位塊可以通過吸收震動峰值載荷，並允許破碎機垂直和縱向位移，從而有效的降低了破碎機對基礎的衝擊，這種獨特和創新的安裝系統不需要基礎螺栓，變更腳架位置，可適用於移動式或固定式。

Rubber dampers and stoppers effectively decrease crushing loads to the foundation by absorbing peak shock loads and allowing crusher to move vertically and longitudinally. This unique and innovative system eliminates the need of anchor bolts. Change support position to meet portable or stationary application requirement.



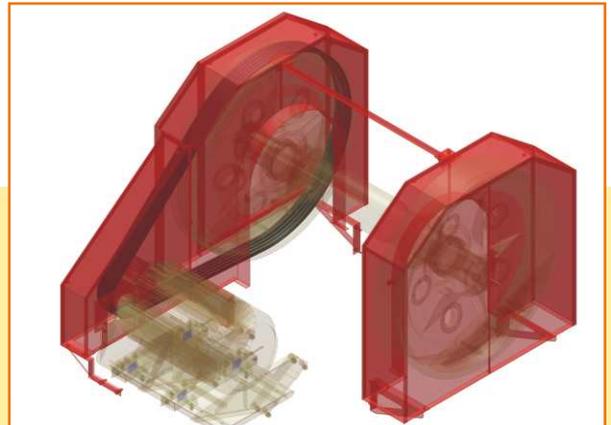
變更腳架位置，可適用於移動式或固定式
Change support position to meet portable or stationary application requirement

Compact flywheel guards

飛輪護罩結構簡潔便於保養

本系列顎式破碎機的飛輪護罩螺栓連結在破碎機邊板上，有效地保護破碎機操作者的安全。檢視窗和檢視門提供了方便，檢查皮帶張力。

Flywheel guards are bolted onto the crusher's side plates and effectively protect operators' safety. Viewing window and door provides easy inspection V-belts tension.



配合飛輪護罩，可減少對破碎機周圍的空間需求
The flywheel guards reduce space requirements around the crusher

Wide installation applications

廣泛的安裝應用

本系列顎式機不但重量輕，機台可更換腳架位置適合各種應用，且採用特殊反向破碎及可調整破碎行程機構產能高，馬力省廣泛適用於各種應用。

- 更換老式顎碎機，基礎不必改，且產能更大。
- 各種地面安裝，如採石、礦山、採礦坑及回收破碎。
- 履帶式或輪式移動式破碎站。

The series Jaw Crusher is not only light weight, support position can be changed for different application requirement. Also special Up-Thrust and adjustable crushing stroke design has advantages of high capacity, low power consumption. It can be widely suit for different applications:

- An ideal choice for the replacement of existing Jaw Crusher and modifications to the existing foundation are rarely required. The capacity is larger.
- Right choice for stationary surface installations at quarries, mines, gravel pits and even recycling plants.
- Hot choice for both crawler and wheeled type portable plants.



Capacities & Technical specifications

產能和技術參數

	UJS80	UJR90	UJS90	UJR105	UJS100	UJS110	UJR135	UJS120	UJS126	UJS140	UJS150	UJS200
給料口寬度mm Feed opening width mm(in)	800(32)	900(36)	900(36)	1050(42)	1000(40)	1100(44)	1350(54)	1200(48)	1260(50)	1400(56)	1500(60)	2000(80)
給料口深度mm Feed opening depth mm(in)	500(20)	500(20)	600(24)	700(28)	800(32)	850(34)	750(30)	900(36)	1000(40)	1100(44)	1250(50)	1500(60)
電動機功率HP Power HP	75	100	100	150	150	175	175	200	200	250	300	500
電動機功率Kw Power Kw	55	75	75	110	110	130	130	150	150	190	225	375
轉速(rpm) Speed(rpm)	350	350	320	270	270	250	270	240	240	220	220	200
產品尺寸 Product Size	閉口間隙 Closed side setting	Mtph	Mtph	Mtph	Mtph	Mtph	Mtph	Mtph	Mtph	Mtph	Mtph	Mtph
mm(in)	mm(in)	Stph	Stph	Stph	Stph	Stph	Stph	Stph	Stph	Stph	Stph	Stph
0-30	20											
0-1 1/8	3/4											
0-35	25											
0-1 3/8	1											
0-45	30											
0-1 3/4	1 1/8											
0-60	40	52-71	75-103									
0-2 3/8	1 5/8	57-76	84-118									
0-75	50	62-90	84-122									
0-3	2	71-95	103-137									
0-90	60	76-105	108-146	100-128								
0-3 5/8	2 3/8	86-114	122-165	109-143								
0-105	70	90-128	127-165	119-147	128-166	119-166	152-209	200-257				
0-4 1/8	2 3/4	105-138	141-184	128-162	143-181	133-181	166-228	219-280				
0-120	80	105-143	141-189	133-171	147-185	138-190	166-233	228-285				
0-4 3/4	3 1/8	114-157	160-213	147-190	162-204	152-204	185-257	247-314				
0-135	90	119-166	184-241	152-190	166-214	152-209	181-261	247-314				
0-5 3/8	3 1/2	133-181	203-270	166-209	185-233	166-228	204-285	271-342				
0-150	100	133-181	227-293	166-214	185-233	171-238	204-280	271-347	208-293	233-318		
0-6	4	143-200	251-327	185-238	200-257	190-261	223-309	299-380	232-327	257-352		
0-185	125	166-233	270-346	209-266	233-299	209-295	247-342	328-413	255-360	280-385	318-442	
0-7 3/8	5	185-257	298-384	228-295	266-328	233-323	271-375	356-456	284-398	309-423	352-485	
0-225	150	200-276	252-318	280-356	252-347	295-409	385-489	303-426	328-451	375-518	409-580	
0-9	6	219-304	276-352	309-390	276-380	323-447	423-537	336-474	361-499	413-570	451-637	
0-265	175	233-318	295-371	328-413	295-409	333-466	442-565	350-493	375-518	432-594	470-660	599-846
0-10 5/8	7	257-352	323-409	361-456	323-466	371-513	489-618	388-545	413-570	475-656	518-727	660-931
0-310	200			371-475	337-466	385-527	504-637	398-559	423-584	485-675	532-751	675-950
0-12 3/8	8			409-523	371-508	423-580	551-703	440-616	465-641	537-741	584-827	741-1050
0-350	225							445-626	470-651	542-751	594-836	746-1050
0-14	9							493-688	518-713	599-827	651-917	817-1154
0-380	250							493-672	518-717	599-827	651-917	822-1154
0-15 1/8	10							545-764	570-789	660-912	717-1007	903-1273
0-420	275									656-903	708-1002	893-1254
0-16 3/4	11									722-993	779-1102	979-1382
0-460	300										774-1088	964-1363
0-18 3/8	12										850-1197	1064-1496

上表所表示的破碎機產能乃針對破碎行程在中間值的一般性物料。對於破碎行程調至最大值的易碎性物料(如煤炭或玻璃)，產能約多12%，破碎行程調至最小值的堅韌物料(如鐵燧岩)產能約少10%。

上表數據指入料能夠順利進入破碎腔，無卡料現象，產量可能隨入料方式，物料性質諸如粒度組成、含水含泥量、鬆散密度和可碎性而變化。

The capacities shown above is referred to usual material with stroke set at middle value. As for brittle material with stroke set at maximum value (e.g. coal and glass), capacity is up about 12% and material with stroke set at minimum value (e.g. taconite), capacity is down about 10%. The above figures are based feed material enters crusher cavity without bridging. The capacities may vary depending on the feeding material and on feed characteristics such as gradation, bulk density, moisture, clay content and crushability.

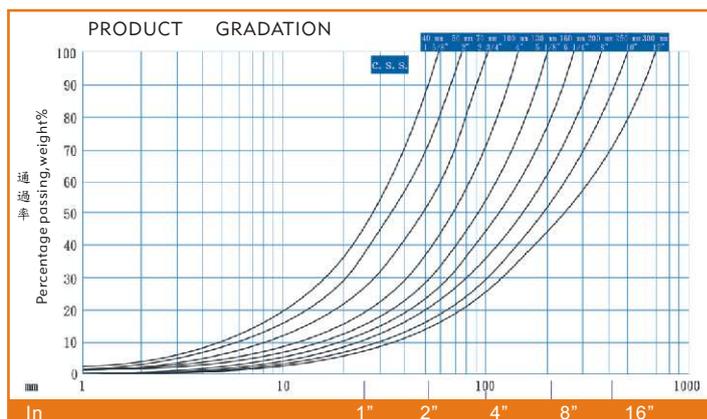
以下因素可提高破碎機的能力和性能：

1. 適合的齒板選擇。
2. 適合的入料級配。
3. 可控的入料量。
4. 足夠的飼料機能力和給料寬度。
5. 充分的破碎機排料區。
6. 排料輸送帶與破碎機最大能力相匹配。

The following factors will enhance crusher capacity and performance:

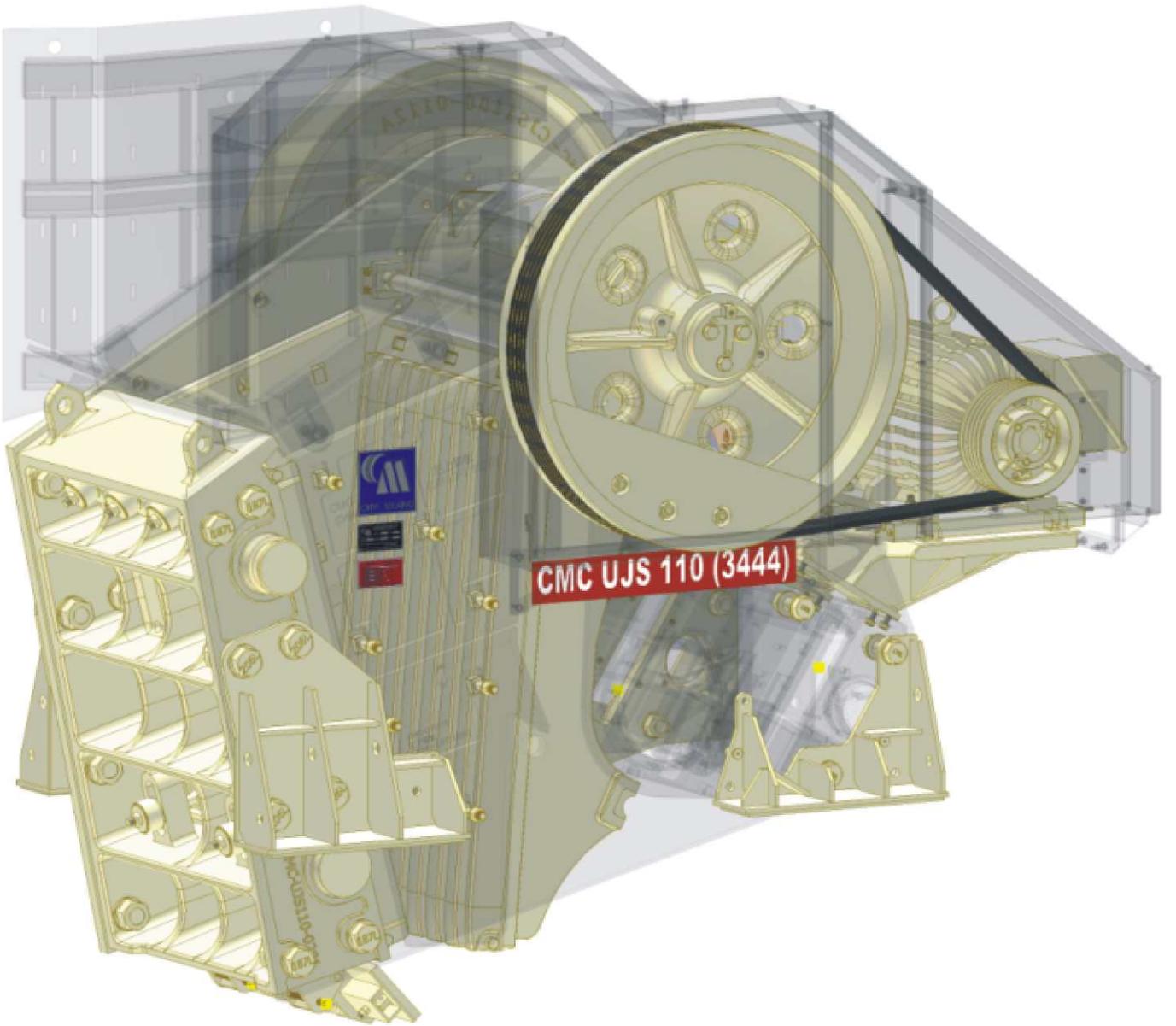
1. Proper selection of jaw plates.
2. Proper feed gradation.
3. Controlled feed rate.
4. Sufficient feeder capacity and width.
5. Adequate crusher discharge area.
6. Discharge conveyor sized to conveyor maximum crusher capacity.

粒度特徵曲線





**Quality Top Perfection Innovations
For Tomorrow**



Dimension and Technical Information

尺寸及技術規格

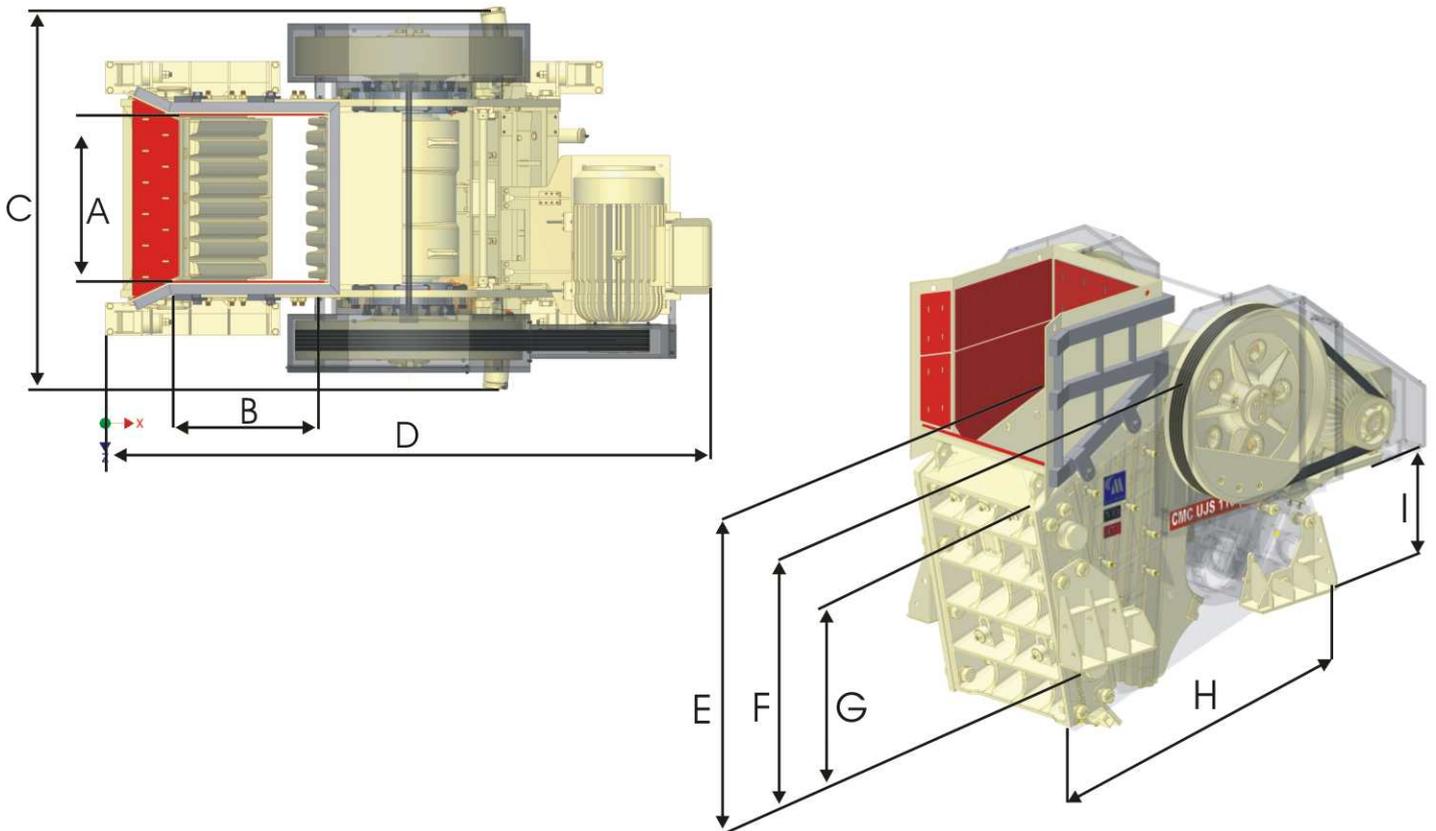
Dimension and weights

外型尺寸和重量

		UJS80	UJ R90	UJS90	UJR105	UJS100	UJS110	UJR135	UJS120	UJS126	UJS140	UJS150	UJS200
A	mm (in)	800 (32)	900 (36)	900 (36)	1050 (42)	1000 (40)	1100 (44)	1350 (54)	1200 (48)	1260 (50)	1400 (56)	1500 (60)	2000 (80)
B	mm (in)	500 (20)	500 (20)	600 (24)	700 (28)	800 (32)	850 (34)	750 (30)	900 (36)	1000 (40)	1100 (44)	1250 (50)	1500 (60)
C	mm (in)	1755 (69)	1865 (73.5)	1925 (75.8)	2210 (87)	2185 (86)	2375 (93.5)	2650 (104.3)	2515 (99)	2565 (101)	3125 (123)	3300 (130)	4300 (169.3)
D	mm (in)	2200 (86.6)	2620 (103)	2860 (112.5)	3400 (133.9)	3720 (146.5)	4000 (157.5)	3520 (138.6)	4275 (168.3)	4335 (170.6)	5060 (199.2)	5700 (224.4)	6760 (266)
E	mm (in)	1740 (68.5)	1740 (68.5)	2045 (80.5)	2325 (91.5)	2750 (108.3)	2905 (114.4)	2545 (100)	3065 (120.6)	3165 (124.6)	3665 (144.3)	4140 (163)	4935 (194.3)
F	mm (in)	1625 (64)	1625 (64)	1890 (74.5)	2170 (85.5)	2450 (96.5)	2650 (104.3)	2425 (95.5)	2775 (109.3)	2850 (112.2)	3335 (131.3)	3650 (143.7)	4510 (177.5)
G	mm (in)	1050 (42)	1050 (42)	1220 (48)	1355 (53.3)	1600 (63)	1700 (67)	1500 (60)	1800 (70.8)	1835 (72.2)	2120 (83.5)	2400 (94.5)	2860 (112.6)
H	mm (in)	2120 (83.5)	2120 (83.5)	2300 (90.5)	2760 (108.7)	3050 (120)	3250 (128)	2875 (113)	3415 (134.4)	3465 (136.4)	4135 (162.8)	4680 (184.2)	5535 (218)
I	mm (in)	550 (22)	550 (22)	550 (22)	700 (28)	750 (30)	800 (32)	700 (28)	950 (38)	985 (39)	1135 (45)	1285 (51)	1530 (61)
破碎機自重 Crusher weight without options	kg Lbs	7860 17292	8980 19756	9820 21604	13970 30734	19890 43758	25530 56166	25780 56716	37250 81950	37500 82500	55490 122078	69880 153736	119540 262988
破碎機總重 (含選配件) Total crusher weight	kg Lbs	9765 21483	11035 24277	12025 26455	16620 36564	22950 50490	29030 63866	30180 66396	39780 87516	40030 88066	64690 142318	82350 181170	135190 297418

啓銘機械可提供破碎機總體佈置、基礎和維修空間要求的詳細圖紙

General arrangement, foundation and service space requirement drawings are available from CMC



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