

Engineered for Tomorrow



About thyssenkrupp Industries India

thyssenkrupp Industries India Pvt. Ltd. (tkII) is a German engineering company specializing in businesses ranging from Mining, Energy, Sugar, Cement Plant and Machinery and Services having two state of the art manufacturing facilities at Pune and Hyderabad. Having our own technology and manufacturing facilities ensures better control on quality. This combined with our experience over years in design, manufacturing, procurement, project and site management ensures that we exceed the expectations of the customers and ensure customer satisfaction.

Mineral and Aggregate Crushing Systems (MACS) is a part of Mining Business where our customers are at the core of our business. Quality, Innovation and Engineering know-how has helped us make our mark in the industry.

thyssenkrupp MACS stands for:

- **Robust and Heavy Duty Design** for all types of applications
- **Reliable and Premium Quality Products** which are long lasting
- **Cutting Edge Technology** for best in class productivity and low cost of production
- **Customer First Approach** for best in class customer support



SINGLE TOGGLE JAW CRUSHER

For Primary Crushing of
Hard Rocks & Mineral Ores



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STANDARD SPECIFICATIONS

Model	Feed Opening		Max Feed size-mm	Speed RPM	Motor KW	CSS Range-mm	Capacity TPH
	Inch	mm					
PST 9060	36x24	915x610	500	275	75	60-150	80-200
PST 1108	44x32	1115x810	650	230	110	75-200	130-400
PST 1209	50x38	1270x950	800	200	160	100-250	190-660

Capacities based on a bulk density of 1.6 t/cu.m of hard rocks; will vary with material characteristics and application.
For Final selection kindly be in touch with thyssenkrupp.



Large Fly wheel: Optimum power consumption



Reversible Jaw Plates with application specific material of construction for better wear life



Application specific jaw plate profiles for better efficiency



Optimized nip angle for better performance



ROLLER BEARING CONE CRUSHER

For Secondary and Tertiary Crushing of Hard Rocks and Mineral Ores



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CRUSHER THROUGHPUT CAPACITY (RBC 4000)

FEED OPENING (mm)	SPEED (gpm)	STROKE (mm)	POWER (kW)	THROUGHPUT (metric tons per hour)													
				CLOSED SIDE SETTING (CSS) - mm													
				12	16	19	25	28	32	35	40						
75 (fine)	280	18	200	100-175	160-170	170-180	200-220										
		22											170-180	180-190	200-210		
		24											180-200	220-240	210-220	220-225	
110 (medium)	280	18	200		170-180	180-190	200-210										
		22											180-190	200-210	210-220		
		24											190-210	210-220	220-225		
150 (Coarse)	280	18	200			200-210	220-230	230-240									
		22											210-220	230-240	240-250		
		24											220-230	240-250	250-260		
270 (Extra coarse)	280	18	200				210-225	220-230	230-250	200-275	280-305						
		22											240-250	250-265	270-290	300-320	325-350
		24											290-300	300-325	325-350	350-375	375-425

CRUSHER THROUGHPUT CAPACITY (RBC 3000)

FEED OPENING (mm)	SPEED (gpm)	STROKE (mm)	POWER (KW)	THROUGHPUT (metric tons per hour)											
				CLOSED SIDE SETTING (CSS) - mm											
				12	16	19	22	25	28	32					
75 (Fine)	315	19	90	70-75	80-85	95-100									
		22	110									85-90	100-110		
		25	132									90-100	105-110	110-115	
110 (Medium)	315	19	90		95-100	100-110									
		22	110									100-105	110-115	125-135	
		25	132									105-110	115-125	140-150	
150 (Coarse)	315	19	90		110-115	120-130	130-140	140-150							
		22	110									130-140	140-150	150-160	
		25	132									140-150	150-160	160-170	
190 (Extra coarse)	315	19	90			130-140	135-145	145-155	150-160	160-170	160-170				
		22	110									145-155	155-165	160-170	170-185
		25	132									155-165	165-175	175-185	185-200

Capacities based on a bulk density of 1.6 t/cu.m of hard rocks; will vary with material characteristics and application. For Final selection kindly be in touch with thyssenkrupp.



Wide range of feed openings for different applications



Optimized design for lower power consumption



Advance hydraulic system for crushing operations



Bearing design crushers for durability, longevity and minimum production cost



Option for rotary feeder for better-feed distribution



Operation and maintenance friendly machine







GYRATORY CONE CRUSHER

Suitable for Secondary
Crushing of Hard Rocks
& Mineral Ores



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-  Engineered for larger feed and higher capacity
-  Well defined gyro-crushing action
-  Heavy and sturdy Construction
-  Simple operation & Maintenance

CRUSHER THROUGHPUT CAPACITY

FEED OPENING (mm)	SPEED (gpm)	STROKE (mm)	POWER (kW)	THROUGHPUT (metric tons per hour)						
				CLOSED SIDE SETTING (CSS) - mm						
				30	34	38	42	46	50	55
250-350	290	25	110-132	190-215	210-240	230-260	250-280	265-300	290-310	305-330

Capacities shown are when the cone is installed in an open circuit and indicative only, based on a dry bulk density of 1600 kg/cu m of crushed stone; they vary with feed material characteristics, feed gradation and percentage of fraction below CSS in the feed.



VERTICAL SHAFT IMPACTOR

Suitable for Producing Concrete
Aggregates, Manufacturing
Sand, Road Base Materials,
Fine Particles



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-  Easy portability and quick installation with minimum support structures.
-  Rock-on-Rock technology minimizes wearing of parts, hence minimum operating and wear costs.
-  Excellent cubicle shape product with very high acceptance in market
-  Retro-fit for conversion to Rock-on-Steel for less abrasive rocks.

STANDARD SPECIFICATIONS

Model No.	2503	3003	3503	4003	4503	5003
Max. Size of Feed (mm)	25	40	40	40	40	40
Rotor Size	600	760	900	1000	1000DR	1200
Power (kW)	45 - 55	90 - 110	132 - 200	250 - 370	370 - 450	500-800
Capacity (tph)	40 - 50	75 - 110	120 - 200	200 - 350	320 - 550	550 - 800

Figures given vary with applications. For final selection, refer your requirements to us. The machine is under continuous development. The parameters are subject to vary. For drives more than 250kW, twin drive is recommended.

VIBRATING SCREENS

Suitable for Separation of Aggregates, Mineral Ores, Coal, Coal, Coke, Powder & Granules



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Compact and robust design



Powerful circular motion with high Screening efficiency



Wide range of models to cater different applications and throughputs



Easy maintenance and operation

STANDARD SPECIFICATIONS

Model	Screen Size-mm		Surface Area (m ²)	Screening Drive Motor - kW		
	Width	Length		2 Deck	3 Deck	4 Deck
MF-1548	1500	4800	7.2	15	18.5	
MF-1848	1800	4800	8.6	18.5	22	30
MF-2148	2100	4800	10.1	22	30	
MF-2160	2100	6000	12.6	22	30	
MF-2460	2400	6000	14.4	30	37	

For other sizes and special applications, contact for details. Additional models of heavy duty available as per request
Installation dimensions furnished on request.

VIBRATING GRIZZLY FEEDERS

Twin Vibrator TVG Models for Feeding Blasted Rock and ROM Mineral



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Robust and sturdy design to handle the ROQ



Linear motion with variable frequency drive to adjust variations in the feed



Maintenance friendly



Best in class for scalping and feeding

STANDARD SPECIFICATIONS

Model	Feeder Size-mm		Drive Motor kW	Capacity Range TPH	Max. Feed Size mm
	Width	Length			
TVG 830	800	3000	9.3-15	up to 150	450
TVG 1039	1000	3900	15-22	90-300	650
TVG 1245	1200	4500	22-30	200-450	850
TVG 1350	1300	5000	30-37	350 - 650	1000
TVG 1560	1500	6000	37-45	500-800	1200

Capacities based on bulk density of 1.6 t/m³ of hard stone. For other sizes and special applications, contact for details. Installation dimensions furnished on request.

SPIRAL SCREW CLASSIFIER

For Washing Classification
Dewatering



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Simple and conventional design for sand classification



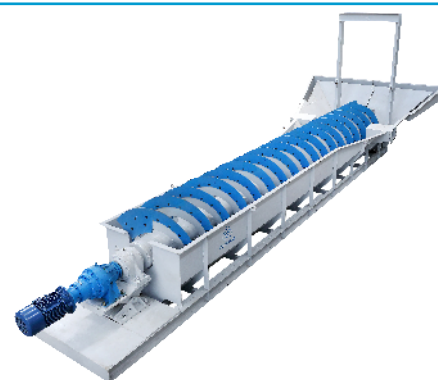
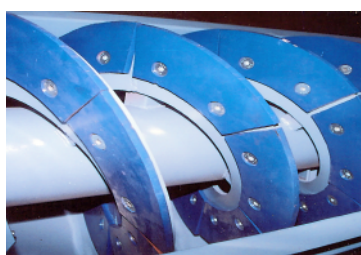
Low water requirement



Good quality sand output



Very low power and low wear components required

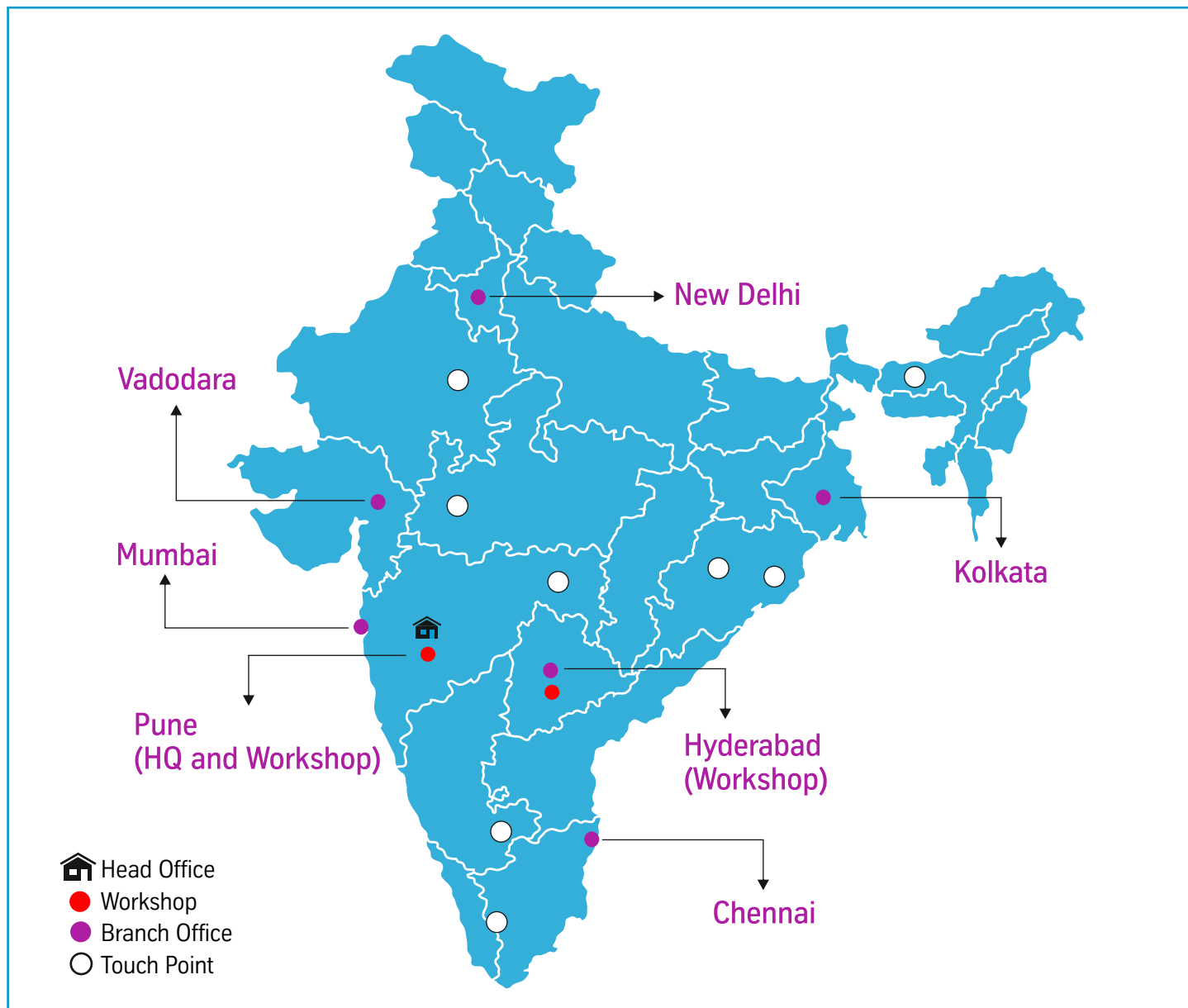


STANDARD SPECIFICATIONS

Model	Dia x Length (mm)	Speed (rpm)	Pool Area (Sq.m)	Max. Over Flow (cu.m/min)			Rake-up capacity (tph)		Motor Output (kW)	
				Classifying size (mm)			Spiral Pitch		Single	Double
				0.3	0.15	0.075	Single	Double		
NSC600	600 x 5000	17.0	2.6	1.21	0.61	0.28	12.0	24.0	2.2	3.7
NSC900	900 x 6500	12.0	6.1	3.06	1.53	0.70	28.6	57.2	3.7	5.5
NSC1200	1200 x 8500	8.5	10.0	5.76	2.88	1.33	48.0	96.0	5.5	9.3
NSC1500	1500 x 9500	7.0	16.8	9.32	4.66	2.14	70.0	140.0	7.5	11.0
NSC1800	1800 x 10000	5.5	21.0	14.00	7.00	3.22	105.0	210.0	11.0	18.5
NSC2100	2100 x 11000	5.0	25.0	20.00	10.00	4.60	152.0	304.0	15.0	22.0

Note: 1. Motor output indicated is based on 2.7 sp.gr. of feed material with double spiral ribbon & tank inclination of 16 deg. 2. Tank shall be of 'Sub Merged Type' for 100-325 mesh separation & 'High-Wear Type' for separating 20-100 mesh. 3. Indicated tank lengths may be varied according to operating condition. 4. Other sizes available on request. 5. Installation data on request





thyssenkrupp Industries India Pvt. Ltd.

Pune (HQ and Workshop)
 Pimpri, Pune - 411 018,
 Maharashtra, India
 P: +91 20 2742 5461-64

Hyderabad (Workshop)
 Survey Nos: 212-215, IDA, Phase - II,
 Cherlapally, Hyderabad - 500 051.
 Telangana, India

Mumbai (Registered Office)
 154 C, Mittal Tower, 15th Floor,
 210, Nariman Point
 Mumbai - 400 021, India

Branch Office

Chennai
 Temple Tower, 5th Floor, Nandanam
 672, Anna Salai, Chennai - 600 035, India

Kolkata
 thyssenkrupp Industries India Pvt. Ltd.
 Ecospace Business Park, Block-3A,
 7th Floor, Rajarhat-Newtown
 Kolkata - 700 160, India

New Delhi
 407 A, Hemkunt Tower, 98, Nehru Place
 New Delhi - 110 019, India

Vadodara
 Keval Corporate Park,
 Block No. 02, Third Floor,
 Opp GEB Substation, Channi Road,
 Channi, Vadodara - 391740, India

Corporate Identity No. : U74999MH1947PTC005508

✉ info.macs@thyssenkrupp.com 🌐 www.thyssenkrupp-industries-india.com

